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FOR THE YEAR

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UNDER THE DIRECTION OF

GILBERT T. WALKER, C.S.I., M.A., Sc.D., F.R.S.,
Director General of Observatories

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, JANUARY, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of January, 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 10 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

In the remaining monthly reviews of the present year the brief statements of the methods of recording and tabulating the data, for each of the elements of observation, given in the present number at the commencement of each section, will not be repeated.

New normals of pressure, temperature, humidity and cloud derived from the records of the years prior to 1911 have been used from January 1915 in Tables B and C of the review.

Summary of the chief features of the weather in India during the month.

2. Several winter disturbances affected the weather in northwest India during the month, but only three of these were productive of appreciable rain and snow. Their paths lay evidently much further north than usual and weather was abnormally dry in most parts of northern and central India as well as in Burma. Over the greater part of the Peninsula on the other hand rainfall was remarkably heavy for the time of the year, a result mainly of the frequent occurrence of disturbed weather in the south of the Bay, where the monsoon continued active till very near the end of the month and gave rise to two storms.

Cloud proportion was very high in Burma and the Peninsula, and decidedly low generally in northwest India, the United Provinces, Assam and Central India. The departures from normal of humidity were in general parallel with those of rainfall, but were not strongly marked. Maximum temperature was about normal in northwest India and the United Provinces, and generally below normal elsewhere. Minimum temperature was below the average except in Burma and the Peninsula.

Barometric pressure averaged over the plains of India was ·013″ above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—On three days during the month no solar observations were possible owing to cloud. There were no prominence records on four days and on two other days the records were imperfect.

Sunspots.—Thirty new groups were recorded during the month. The daily average was 6·8 and the average life of a spot was 7·2 days. The spots were equally distributed in the two hemispheres. The mean latitude of northern spots was low indicating the near approach to the maximum activity for that hemisphere. The southern spots on the other hand were in higher latitudes the mean being over 2° higher than in the preceding month. The latitude distribution was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	8	6	1	...	10°·7	3 & 22
South . .	3	7	4	1	18°·0	7 & 32

Prominences.—One hundred and thirty-six large (over 1 minute in height), two eruptive, and eight metallic prominences were recorded during the month. The highest reached 340″ above the limb. This was one of the eruptive prominences and occurred on the 30th of the month, in a high latitude zone of activity. It was preceded on the 27th, 28th, and 29th by a series of large prominences enveloping the south pole.

Magnetic disturbances.—"Moderate" disturbances were recorded on the 12th, 13th, and 29th.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$ N; $\lambda = 77° 28' 00''$ E; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:			1	
AE:	9·76	17·5		2·5
AZ:				

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (a). An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h m. s.						
Jan. 30th	e P	21 00 18	...	...	...	...	...	
	i L	21 35 54	...	...	...	...	...	
	M	21 37 24	...	...	180	...	...	
	F	22 34 06	...	...	...	...	...	

S. SITARAMAYYA,

Officiating Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of January, 1918, the traces showed 10 calm days, 18 days of small and 3 days of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 2nd, 9th, 19th, 22nd and 23rd.

The following table represents the magnetic character of each day during the month:—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	C	17	C	25	C
2	C	10	S	18	C	26	S
3	S	11	S	19	C	27	S
4	S	12	S	20	S	28	S
5	S	13	S	21	S	29	M
6	S	14	S	22	C	30	M
7	S	15	S	23	C	31	M
8	C	16	S	24	S		

C=calm; S=small; M=moderate; G=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows:—

Easterly declination	0° 29′ 48″.
Horizontal force	0·36890 C.G.S. unit.
Vertical force	0·16937 C.G.S. „
Inclination	24° 39′·7.
Horizontal force range	0·00057 C.G.S. unit.
„ „ summed range	0·00369 C.G.S. „
Declination range	2′·1.
„ summed range	10′·3.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$ N; $\lambda = 72° 48' 56''$ E; $h = 11$ m. Subsoil *Trap.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9	19		
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Jan. 3rd	...	13 36 to 39	...	...	...	...	...	Thickening of line.
„ 18th	...	10 55 to 59	...	...	...	...	...	Thickening of line.
		h. m. h. m.						
„ 19th	...	7 59 to 8 4	...	...	...	...	...	Thickening of line.
„ 30th	P	21 27 49	...	...	...	...	...	
	S	21 35 37	...	...	...	...	...	
	M	21 38 1	...	...	122	...	...	
	F	22 39 49	...	...	...	...	...	

Sensibility to tilt 1·0 mm. of amplitude on the trace = 0·32".

N. A. F. Moos,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 6·4$ m. Subsoil *Alluvial.*

Apparatus.—Two Omori Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Jan. 30th	P	21 26 24	4	...	...	...	...	
	S	21 32 30	7	...	...	...	...	
	L	21 37 42	10	...	...	...	...	
	M	21 38 6	...	207	...	...	...	
	F	22 5 36	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6'$ N; $\lambda = 77° 11'$ E; $h = 2·1$ km. Subsoil *Rock.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AA:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (u). An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Jan. 6th	e	16 51 0	...	...	...	...	...	
	M	16 51 24	...	...	357*	...	...	*Pendulum was not moving freely. Local shock.

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ). An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Jan. 6th	F	16 53 36	...	...	...	...	...	
Jan. 30th	P	21 26 42	...	...	...	...	...	
	S	21 33 6	...	...	...	...	...	
	M	21 39 18	36	468	...	...	...	
	F	22 27 0	...	...	...	...	...	

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m.	sec.			
Shillong . .	Jan. 6th	1 22	1	5	1	
Drosh . . .	„ 17th	15 5	5	6	2	
Akyab . .	„ 18th	14 42	5	3	1	

C. W. B. NORMAND,
Imperial Meteorologist, Simla.

Weather in the Indian Ocean.

7. Winds were much stronger than usual in the equatorial belt as represented by Zanzibar and Seychelles. Rainfall was in decided defect at Mauritius and Zanzibar, but was in excess by 41 per cent at Seychelles.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	+·002	—·004	—·001
Actual mean wind direction . .	S 83° E	N 24° E	N 42° W
Normal mean wind direction . .	S 87° E	N 28° E	N 39° W
Actual mean wind velocity (miles per diem).	65	170	146
Normal mean wind velocity (miles per diem).	61	137	107
Rainfall departure from normal . .	—2·21	—0·75	+7·09

Depressions and cyclonic storms.

8. Five winter disturbances affected the weather in northwest India during the month, but only the last three gave appreciable rain and snow. The third entered Kashmir on the 12th and occasioned local snowfall there and light rain in parts of the north Punjab; the fourth crossed the frontier on the 16th and caused fairly widespread rain and snow in the hills surrounding the Punjab, while the fifth appeared over Rajputana on the 21st and extending northeastwards gave rise to light rain in east Rajputana, the east Punjab and the northwest of the United Provinces, and light to moderate snow in the Simla and Kumaon hills during the 22nd and 23rd.

Barometric gradients were steeper than usual in the Bay during the second week of January, and on the 14th a depression had formed with centre at about lat. 7°N, long. 86°. It developed into a storm during the course of the day, and began to move in a northwesterly direction. The storm remained vigorous till the 17th and abated on the 18th, on which date it crossed the Nellore coast; it disappeared in Hyderabad on the 19th. S. S. Maharajah which left Port Blair on the 13th and reached Madras on the 19th experienced winds up to force 9, mountainous seas and heavy rain between the 15th and the 17th.

Pressure.

9. In most of the observing stations in India mercurial barometers on Fortin's principle of fiducial point adjustment, with tubes of 0·4" bore throughout, have always been in use. But of late years there has been an increasing number of barometers on the Kew principle, which has its scale divided to compensate for the change of level of the mercury in the cistern as the pressure alters.

The following list contains the names of all stations equipped with instruments of the latter class :—

Aden.	Gangtok.	Noakhali.
Akyab.	Gopalpur.	Nowgong.
Amini Divi.	Gorakhpur.	Rangoon.
Barisal.	Jalpaiguri.	Ratnagiri.
Bhamo.	Kyaukpyu.	Saugor C. P.
Bushire.	Mangalore.	Tavoy.
Cochin.	Midnapore.	Toungoo.
Cox's Bazar.	Minbu.	Victoria Point.
Cuddapah.	Monywa.	Yamethin.
Delhi.	Mymensingh.	Zanzibar.
Dinajpur.	Negapatam.	

The instruments at the following stations are by various makers and of various kinds :—

Colombo.	Katmandu.	Panjgur.
Dalbandin.	Kurnool.	Trincomalee.
Fort Sandeman.	Lyallpur.	Trivandrum.
Kalat.	Patiala.	

At Calcutta and Bombay the standards are Newman instruments on the Fortin principle, with adjustable scales and fiducial points, and tubes of large bore.

All instruments are compared at Calcutta before issue, and their corrections determined to the Calcutta standard, which was until 1910, ·011" higher than the Kew standard. The present difference is probably less than this, but the determination of the exact amount is a matter of considerable difficulty (see the Departmental Memoirs, Vol. XXI, pp. 127—8, 1916).

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

Those heights above mean sea-level of the barometers of all stations given in Table B or Table A, which have been obtained accurately by actual measurement, are given in Roman figures. In the great majority of cases they have been referred to datum levels determined by the Great Trigonometrical Survey of India; of the remaining stations those heights which have been determined barometrically are printed in italics.

The readings of the barometers are reduced to 32°F., and from 1st January 1905, have been corrected to constant gravity in all cases. They are reduced to sea-level in the cases of stations the elevations of which are accurately known and are below 3,200 feet. Each reading is separately corrected and the means of the month are the means of the daily corrected readings.

In table B (2), columns 4 to 10, under the general heading "Pressure, 8 hrs. in inches," are given for each station the 8 hrs. barometric data of the month, including—

(1) The mean 8 hrs. pressure reduced to 32°F., and its departure from the normal mean pressure (reduced to 32°F.) of the month.

(2) The mean 8 hrs. pressure corrected to sea-level and to constant gravity, or to constant gravity only in cases of stations the elevations of which are above 3,200 feet.

(3) The highest and lowest pressures (reduced to 32°F.) recorded during the month with their respective dates of occurrence.

In Table A, columns 4 to 9, under the general heading "Pressure," are given for all stations recording observations at 10 hrs. and 16 hrs.—

(1) The monthly means of the two hours of observation at 10 hrs. and 16 hrs. reduced to 32°F.

(2) The mean daily range.

(3) The mean of daily mean pressure reduced to 32°F. and its departure from the normal.

(4) The mean of daily mean pressures reduced to 32°F., and corrected to constant gravity and to sea-level, or to constant gravity only in cases of stations the elevations of which are above 3,200 feet.

The means of daily pressures in Table A have been obtained by taking the means of the 10 hrs. and 16 hrs. observations and applying corrections for each month, derived from a series of hourly observations recorded at the same or neighbouring stations, to give true daily means.

The distribution of the mean 8 hrs. pressure of the month is shown on two charts. The first chart (Plate I) gives the distribution of the mean pressure of the month reduced to sea-level and to constant gravity (that of lat. 45°) by means of isobars drawn for differences of pressure 0·05 or $\frac{1}{20}$ of an inch. The second chart (Plate II) gives the departures from the normal of the actual mean 8 hrs. pressure reduced to 32°F.

The greater part of the normal 8 hrs. daily and monthly means of pressure utilized in Table B of the review have been deduced from the barometric observations of the whole of the twenty-two years period 1889-1910, and in all except 24 cases the periods employed equalled or exceeded five years.

The monthly means employed in the determination of the departures of the mean actual from the mean normal pressures of the month given in Table A are derived from all the available trustworthy pressure data down to 1899 for each station. These normal means are given in the "Indian Meteorological Memoirs," Volume XVII, pages 66 to 69.

The more important barometric changes and movements during the month are described in the statement of depressions and cyclonic storms of the month. The data that are chiefly used in that discussion are the 8 hrs. reduced observations and the departures derived from comparison of these observations with the normal daily 8 hrs. values.

On the mean of the month barometric pressure in the plains of India was ·013″ above normal; but the distribution was unequal. Thus it was ·04″ above normal in the Punjab and steadily declined from there to the extreme south of the Peninsula where it was nearly ·05″ in defect.

The vertical gradient was steeper than usual in the Central Provinces, Rajputana and northeast India.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·012
Assam	+·012
Bengal	+·015
Bihar and Orissa	+·024
United Provinces	+·033
Punjab	+·039
North-West Frontier Province	+·013
Sind	+·037
Rajputana	+·036
Bombay	—·010
Central India	+·027
Central Provinces	+·016
Hyderabad	—·006
Mysore	—·031
Madras	—·036

TABLE 10.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference B—A.
	″		″	″
Quetta	+·041	Jacobabad	+·043	+·002
Leh	+·065	Lahore	+·033	—·032
Murree	—·003	Peshawar	+·025	+·028
Simla	+·035	Ludhiana	+·039	+·004
Muktesar	+·024	Bareilly	+·025	+·001
Darjiling	+·005	Dhubri	+·019	+·014
Mount Abu	+·015	Deesa	+·034	+·019
Pachmarhi	—·020	Khandwa	+·018	+·038
Kodaikanal	—·045	Madura	—·054	—·009

Temperature.

10. The mean temperature data are given in Tables A and B under the heading "Temperature of air." In Table B they are based upon observations of the dry bulb and wet bulb thermometers recorded at 8 hrs., and of the maximum and minimum thermometers. In the great majority of cases the normals of maximum and minimum temperature for the stations in Table B are derived from the data of the 33 years, 1878—1910; in the case of some of the most recently started observatories the period is shorter, but it is never less than five years. The normals are given in the "Indian Meteorological Memoirs," Volume XXII, Part III, pages 426-457. The monthly mean of the mean between maximum and minimum, as given in this table, differs from the true mean of the day by a small amount which varies from month to month.

It should be noted for the purposes of Table B that the mean temperature of the day really denotes the mean temperature of the 24 hrs. preceding 8 hrs. of the day in question and that therefore the month for which the means are given in this table terminates at 8 hrs. of the last day of the month. In the case of Table A, however, the day or 24 hrs. period terminates at midnight (and not at 8 hrs. as in Table B) and the monthly means apply therefore to monthly periods ending at midnight of the last day of the month in question.

In Table A the mean of daily mean temperatures for each month is obtained by taking the mean of the maximum and minimum temperatures and applying a correction given on pages XV to XXI of Volume XVII of the "Indian Meteorological Memoirs" This correction was determined from the hourly observation data given in Volumes V, IX and X of the "Indian Meteorological Memoirs." The data at once furnish the necessary corrections for the stations at which these observations were recorded. At the remaining stations the corrections were determined from the values at the nearest stations with similar condition of exposure, etc., at which the hourly observations were recorded.

The departures from normal of the mean daily mean temperature of the month given in Table A have been

obtained by a comparison of the actual means with normal means given in the "Indian Meteorological Memoirs." Volume XVII, pages 16 to 20.

The methods of exposing thermometers will be found fully described in the Hand-book of instructions to observers in India, or briefly in the Annual Report on the Meteorology of India for the year 1887, page 37. All thermometers in use have been verified by comparison with Kew standard thermometers at Calcutta and are re-standardised from time to time: all thermometer readings are corrected to their true values, and hence are strictly comparable.

The mean distribution of temperature in India in each month is exhibited by the help of three charts, which show the departures of the mean maximum, mean minimum and mean daily temperatures from their normal values for the month. These charts are given in Plates III and IV. In them equal departures of temperature are indicated by lines, the lines being drawn for differences of 2 degrees of departure. A continuous line indicates that the temperature was in excess by the amount shown by the number given near the line, and a broken line that it was in defect by the amount indicated by the number similarly placed. The line of no departure, separating areas of excessive from areas of deficient temperature, consists of a continuous and of a broken line placed parallel and near to each other, the broken line being on the side of deficient temperature, and the continuous line on that of excessive temperature. The departures of the temperature of the month from the normal at the hill stations are given in figures with a positive or negative sign to indicate excess or defect; they are not taken into account when the lines are drawn.

Maximum temperature was more than 4° below normal in the Central Provinces East, Hyderabad South and the Madras Deccan and from 2° to 4° below normal in Lower Burma, Orissa, Chota Nagpur, Kashmir, Rajputana East, Central India, Berar, the Central Provinces West, the Bombay Deccan, Hyderabad North, Mysore and the Madras Coast North. Minimum temperature was below the average generally except in Burma and the Peninsula, the deficiency being 5° or more in Kashmir, Baluchistan and Central India East.

TABLE 11.

Sub-division.	Actual temperature.				Departure from normal on		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	83·1	75·2	79·1	7·9	—1·9	—0·1	—1·8
2. Lower Burma	86·1	64·5	73·8	18·7	—2·7	—0·7	—2·0
3. Upper Burma	78·9	53·5	66·2	25·5	—1·3	+0·6	—1·9
4. Assam	73·8	49·5	61·7	24·2	+0·6	—1·3	+1·9
5. Bengal	76·1	52·5	64·3	23·6	—1·5	—2·1	+0·6
6. Orissa	78·6	55·0	66·8	23·6	—3·0	—3·2	+0·2
7. Chota Nagpur	73·9	48·7	61·3	25·2	—3·2	—3·9	+0·7
8. Bihar	73·5	47·5	60·5	26·0	—0·8	—2·4	+1·6
9. United Provinces, East	72·7	44·9	58·8	27·8	—0·5	—2·9	+2·4
10. Do. do., West	71·0	43·6	57·3	27·4	—0·7	—2·7	+2·0
11. Punjab, East and North	67·7	40·4	54·1	27·3	+0·3	—2·5	+2·8
12. Do., South-west	69·5	39·9	54·7	29·5	+1·3	—1·1	+2·4
13. Kashmir	30·7	9·6	20·2	21·1	—3·3	—5·0	+1·7
14. North-West Frontier Province	67·3	36·4	51·9	30·9	+1·5	—3·5	+5·0
15. Baluchistan	59·4	30·1	44·8	29·3	+0·7	—5·5	+6·2
16. Sind	75·0	48·2	61·6	26·8	0	—2·6	+2·6
17. Rajputana, West	74·5	45·7	60·1	28·7	+0·7	—3·3	+4·0
18. Do., East	72·2	45·3	58·8	26·9	—2·5	—2·8	+0·3
19. Gujarat	81·1	53·1	67·2	28·0	—0·5	—1·2	+0·7
20. Central India, West	76·0	46·7	61·3	29·3	—2·3	—2·3	0

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
21. Central India, East	72·4	42·5	57·4	29·9	—2·0	—5·1	+3·1
22. Berar	81·6	55·0	68·3	26·6	—2·3	—1·9	—0·4
23. Central Provinces, West	77·1	48·9	63·0	28·2	—3·1	—3·1	0
24. Do. do., East	77·3	50·8	64·1	26·5	—4·1	—3·2	—0·9
25. Konkan	85·8	67·9	76·9	17·9	+0·6	+0·5	+0·1
26. Bombay Deccan	82·3	55·2	68·8	27·1	—3·3	—0·6	—2·7
27. Hyderabad, North	82·2	56·3	69·2	25·9	—2·6	—1·1	—1·5
28. Do., South	81·9	61·3	71·7	20·6	—4·3	—0·4	—3·9
29. Mysore	80·5	59·5	70·0	21·1	—2·5	+0·6	—3·1
30. Malabar	86·7	71·3	79·0	15·4	—0·7	+0·5	—1·2
31. Madras, South-east	83·8	68·8	76·3	15·1	—1·6	+0·8	—2·4
32. Do. Deccan	84·5	63·8	74·1	20·7	—4·1	+1·4	—5·5
33. Do. Coast, North	79·6	65·4	72·5	14·2	—2·7	+0·1	—2·8

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—2·0	0	—1·0
Assam	+0·6	—1·3	—0·4
Bengal	—1·5	—2·1	—1·8
Bihar and Orissa	—2·2	—3·0	—2·6
United Provinces	—0·6	—2·9	—1·7
Punjab	+0·6	—2·1	—0·7
North-West Frontier Province	+1·5	—3·5	—1·1

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	0	—2·6	—1·3
Rajputana	—1·2	—3·0	—2·1
Bombay	—1·2	—0·6	—0·9
Central India	—2·2	—3·7	—3·0
Central Provinces	—3·2	—2·8	—3·0
Hyderabad	—3·6	—0·7	—2·2
Mysore	—2·5	+0·6	—0·9
Madras	—2·1	+0·7	—0·7

Winds.

11. The 8 hrs. wind data, consisting of observations of the direction of the wind and of the air movement as registered by Robinson anemometers, are given in Table B under the heading "Wind direction," "Wind velocity" and "Wind steadiness." In these columns are shown the number of days the wind at 8 hrs. blew from each of eight points, and the resultant direction of the wind, the mean hourly air movement and the steadiness derived from these observations. The wind resultant is calculated in all cases by the use of Lambert's formula, in which equal values are given to each wind observation irrespective of velocity. The mean wind directions are shown in Plate I by means of arrows in the usual manner.

The wind data for 10 hrs. and 16 hrs. are given in a similar form in Table A. Under the heading "Wind direction" are shown the number of times that each of eight wind directions was observed at the hours of record, and the directions of the resultant of winds of unit strength in these directions. The ratio of the magnitude of the resultant so obtained to that which it would have if the wind always blew from the same direction (*i.e.*, throughout the whole of the observations), is called the wind steadiness and is given as a percentage, with a table of normals, under the heading "Wind steadiness." The mean diurnal movement of the air at each station and the average monthly value are to be found under the heading "Wind velocity."

The figures of the normal values for wind used in Tables A. and B are computed from all available data previous to 1899, or in some cases 1902, and have been published in Volume XVII of the "Indian Meteorological Memoirs."

All anemometers used in India are compared before issue with the standard Beckley anemograph at Calcutta Observatory, but as only the instruments with small corrections are issued no correction has been applied to the values given in Tables B and C.

Up to 1911 the factor representing the ratio of air movement to travel of Beckley cups had, in India, as in other countries, been taken as 3·0; but as in that year it had been generally accepted that the factor should be 2·2, the change to 2·2 was made in the Monthly Weather Review of January 1912 (see note on page 8 there).

Winds were stronger than usual in Burma, Mysore and Madras, and were below the average strength in Bengal, the United Provinces, the North-West Frontier Province, Sind, Rajputana and Central India.

The steadiness was low in the North-West Frontier Province, and was normal or above it elsewhere, being remarkably high in Burma, Assam, the Central Provinces and Hyderabad.

The direction of the air movement was more easterly than usual in Lower Burma and on the north Madras coast. The normal northerly element in the mean wind direction was appreciably weak in Rajputana. It is noteworthy that at the level of Leh calms or light northeasterly winds prevailed throughout the month to the entire exclusion of the normal southerly winds.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·4	+11
Assam	+0·2	+20
Bengal	—0·4	0
Bihar and Orissa	—0·2	+ 6
United Provinces	—0·4	+ 4
Punjab	+0·2	+ 9
North-West Frontier Province	—0·7	—11
Sind	—1·2	+ 7
Rajputana	—0·4	+ 3
Bombay	+0·1	+ 1
Central India	—0·7	— 3
Central Provinces	+0·2	+19
Hyderabad	—0·4	+22
Mysore	+0·8	+ 3
Madras	+1·6	+ 3

Humidity and cloud.

12. The hygrometric data of the month registered at certain stations are given in Table A. In that table appear columns giving the means of the wet bulb readings at 10 hrs. and at 16 hrs., of the minimum wet bulb readings, of the vapour tension and humidity at the same hours, and also the mean of daily means of these elements and of its departure from the normal mean. The hygrometric data are taken from the departmental "Tables for the reduction of meteorological observations." The means of daily means, are obtained by taking the means of the minimum, 10 hrs. and 16 hrs. observations and reducing them to true means, by applying, in case of vapour tension, the corrections given on pages 38 to 42, and in case of humidity the corrections given on pages 44 to 48 of Volume XVII of the "Indian Meteorological Memoirs." These corrections were determined from the hourly observation data given in Volumes V, IX and X of the "Indian Meteorological Memoirs." The normal values, which have been used for obtaining the departures, are the means calculated in the same way.

The distribution of humidity in each month in India is exhibited by means of two charts in Plate V. The first chart shows the departure from normal of 8 hrs. absolute humidity, and the second that of the relative humidity.

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. The monthly means in Table A are the arithmetical means of the cloud amounts at 10 hrs. and 16 hrs., and the normal means, with which the actual monthly means are compared, are derived from the available cloud data for the same hours.

The departure from normal of the mean distribution of cloud amount at 8 hrs. in each month in India is shown in chart No. 1 of Plate VI, and the discussion of this and of the hygrometric features is based on the data given in Table B.

Normal values for most of the stations in Table B have been derived from the 8 hrs. records of the period 1889-1910.

Both absolute and relative humidity were very low on the Tenasserim coast. Relative humidity was slightly lower than usual in lower Bengal, Bihar and the United Provinces, while absolute humidity was appreciably below the average over the greater part of northern India.

Cloud proportion was distinctly above normal in Burma and the whole of the Peninsula; but elsewhere with the exception of Bengal, Bihar and Orissa, and the Central Provinces, skies were much clearer than usual.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	82	— 5	·513	—·033	4·1	+1·9
Assam	92	— 2	·374	—·028	3·3	—1·1

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Bengal	81	— 5	·388	—·050	1·7	0
Bihar and Orissa	75	— 4	·339	—·049	2·1	+0·1
United Provinces	74	— 6	·266	—·045	1·2	—1·7
Punjab	77	0	·228	—·021	1·3	—2·2
North-West Frontier Province.	67	— 4	·177	—·029	1·3	—2·6
Sind	63	+ 2	·252	—·024	0·5	—2·2
Rajputana	58	0	·212	—·022	1·2	—1·5
Bombay	58	—·3	·349	—·032	1·8	+0·6
Central India	65	— 1	·242	—·048	1·1	—1·1
Central Provinces	60	— 3	·286	—·040	2·2	+0·2
Hyderabad	64	+ 3	·419	—·003	3·6	+1·7
Mysore	77	+ 5	·479	+·005	5·0	+1·9
Madras	80	+ 2	·631	+·003	4·3	+1·5

Rainfall.

13. Rainfall observations are made at about 2,900 stations in India. The time of observation is 8 hrs. The rainfall data for each province are generally tabulated in the office of the local Meteorologist, Director of Land Records, or other officer in the province, and published in the provincial gazettes. The data of Baluchistan, Kashmir, Rajputana, North-West Frontier Province and Central India are however published by the Simla Meteorological Office.

The charts illustrating the distribution of rainfall in the month under discussion are based in part upon the rainfall data of the meteorological observatories throughout India, and in part upon the rainfall statements of the month published by the Local Governments.

Plate VII is based on all the rainfall data available at the time of publication and shows the normal average rainfall and the departure of the rainfall from the normal of the month in the 33 meteorological or rainfall divisions.

The distribution of the total number of rainy days in each month is exhibited in chart No. 2 of Plate VI, and is based entirely on the data furnished by the meteorological observatories. A "rainy day" is one on which 0·10 inch or more of rain is received within 24 hours.

The normal figures of rainfall, and of the number of "rainy days," in Table B are based on observations which extend in most cases over a period of 40 or 50 years ending in 1910.

Rainfall was above normal in the Bay Islands, the Central Provinces East and the Peninsula with the exception of the west coast. Four to five times the usual fall was received in Mysore and Madras (excluding Malabar). It was deficient over the rest of India, the deficiency being greatest in northwest and central India. Kashmir had only 0·81″ in place of a normal of 4·04″.

During the month rainfall was considerably below normal over the greater part of Persia and Egypt, while Ceylon, the Islands in the southeast Arabian Sea and Singapore had in common with the Peninsula a large excess of rainfall.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	3·0	1·1	1·25	0·91	+ 0·34	+ 37
2. Lower Burma	0·5	0·2	0·12	0·17	— 0·05	— 29
3. Upper Burma	0·1	0·3	0·03	0·10	— 0·07	— 70
4. Assam	0·5	2·0	0·16	0·75	— 0·59	— 79
5. Bengal	0·1	0·9	0·03	0·38	— 0·35	— 92
6. Orissa	0·5	0·9	0·19	0·41	— 0·22	— 54
7. Chota Nagpur	0·8	1·8	0·16	0·66	— 0·50	— 76
8. Bihar	0·1	1·2	0·25	0·46	— 0·21	— 46

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
9. United Provinces, East	0·1	1·4	0·01	0·65	— 0·64	— 98
10. Do. do., West	0·9	2·0	0·36	0·97	— 0·61	— 63
11. Punjab, East and North	0·8	2·3	0·26	1·27	— 1·01	— 80
12. Do., South-west	0·1	1·2	0·04	0·53	— 0·49	— 92
13. Kashmir	1·8	5·0	0·81	4·04	— 3·23	— 80
14. North-West Frontier Province	0·5	2·6	0·10	1·46	— 1·36	— 93
15. Baluchistan	0·4	2·7	0·12	1·44	— 1·32	— 92
16. Sind	0	0·7	0	0·25	— 0·25	—100
17. Rajputana, West	0	0·4	0·02	0·20	— 0·18	— 90
18. Do., East	0·6	0·9	0·25	0·36	— 0·11	— 31
19. Gujarat	0	0·1	0·02	0·05	— 0·03	— 60
20. Central India, West	0·1	0·7	0·03	0·28	— 0·25	— 89
21. Do. do., East	0	1·1	0·01	0·49	— 0·48	— 98
22. Berar	0·2	0·6	0·04	0·33	— 0·29	— 88
23. Central Provinces, West	0·1	1·0	0·04	0·44	— 0·40	— 91
24. Central Provinces, East	1·3	0·8	0·43	0·33	+ 0·10	+ 30
25. Konkan	0	0·2	0·03	0·09	— 0·06	— 67
26. Bombay Deccan	0·5	0·3	0·23	0·12	+ 0·11	+ 92
27. Hyderabad North	1·4	0·3	0·34	0·14	+ 0·20	+143
28. Do., South	1·7	0·3	0·56	0·16	+ 0·40	+250
29. Mysore	1·0	0·2	0·48	0·11	+ 0·37	+336
30. Malabar	0·5	0·3	0·18	0·30	— 0·12	— 40
31. Madras, South-east	4·8	1·2	4·05	0·85	+ 3·20	+376
32. Do. Deccan	1·5	0·2	0·61	0·14	+ 0·47	+336
33. Do. Coast, North	2·0	0·3	1·51	0·29	+ 1·22	+421

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·06	0·13	−0·07	— 54
Assam	0·16	0·75	−0·59	— 79
Bengal	0·03	0·38	−0·35	— 92
Bihar and Orissa	0·10	0·50	−0·40	— 80
United Provinces	0·20	0·82	−0·62	— 76
Punjab	0·20	1·09	−0·89	— 82
North-West Frontier Province	0·10	1·46	−1·36	— 93
Sind	0	0·25	−0·25	— 100
Rajputana	0·18	0·31	−0·13	— 42
Bombay	0·13	0·09	+0·04	+ 44
Central India	0·02	0·36	−0·34	— 94
Central Provinces	0·21	0·37	−0·16	— 43
Hyderabad	0·46	0·15	+0·31	+ 207
Mysore	0·48	0·11	+0·37	+ 336
Madras	2·52	0·55	+1·97	+ 358
Mean of India	0·38	0·44	−0·06	— 14

Snowfall.

I.—PERSIA.

14. *Meshed*.—Snow fell on 9th, 10th and 31st to a total depth of nine inches. At the end of the month the depth of snow on the higher passes was unknown.

II.—TURKISTAN.

Kashgar.—About 2 inches of snow fell on the 1st and 2nd.

III.—AFGHANISTAN.

Snow fell to a depth of one foot on Sufed Koh and the hills around Kabul on the 10th, and light falls occurred at Kabul, and on the Hindu Kush on the 17th.

IV.—NORTH-WEST FRONTIER PROVINCE.

(a) *Wano*.—Four inches of snowfall occurred on the highest peaks of Marwatti, Pirghal and Bosh, and at the end of the month, the total accumulation was below the average and was only two inches in the higher passes.

(b) *Tochi (North Waziristan)*.—Moderate snow fell on the hills on the night of the 16th, the snow line descending a little below the height of Vezhda range.

(c) *Kohat*.—There was no snowfall on the Samana Range.

(d) *Hazara*.—There were four falls of snow during the month; the following gives the total actual fall during the month and the accumulation on the 15th of the month.

TABLE 17.

Name of pass.	Elevation.	Actual snowfall.	Depth of accumulation on the 15th January 1918.
	feet.	feet inches.	feet inches.
Narang	8,000	1 10	3 10
Paludran	7,300	1 2	3 0
Kagon	6,600	1 0	2 8
Jared	5,000	0 8	0 6
Malkandi	4,500	0 6	0 4
Sundigali	7,000	3 6	3 6
Jachha	6,500	2 8	2 0
Thandiani	8,800	2 0	3 1
Dungagali	8,000	1 4	3 0

V.—KASHMIR.

(a) *Srinagar*.—A few light falls occurred during the third week, but the precipitation was considerably below normal.

(b) *Skardu*.—There were six falls during the month; four of these were light and occurred only on the higher mountains. The falls on the 10th and 25th extended to the hills surrounding the station, the snow line descending to the base of the hills.

(c) *Dras*:—Snow fell on ten days to a total depth of nearly one foot.

(d) *Kargil*:—Light falls of snow occurred on the mountains around the station on five days. At the end of the month there was six inches of snow on the plains surrounding the station; the accumulations on the hills are given by the following statement:—

Archulla	8 feet.
Nakthulla	6 „
Samenulla	5 „
Narianulla, Barulla	2 to 3 feet.
Pazgolla	1 foot.

VI.—PUNJAB.

(a) *Murree*:—Six inches of snow fell on the 14th and nine inches on the 18th. No snowfall occurred on the hills adjacent to Kahuta.

(b) *Chamba (Kangra)*:—There were eight falls of snow which extended down to the level of 5,000 feet.

(c) *Kilba (Simla hills)*:—Snow fell on the 18th, 23rd and 24th to a total depth of one foot at Kilba and on the last two days it descended down to 5,750 feet.

All the passes were closed, and on the 24th the depths of accumulation were:—

TABLE 18.

Name of pass.	Reported.	Normal at the end of the month.
Rupin	6 feet	9½ feet.
Shatul	5 „	10 „
Brua	5 „	9½ „
Harang	4 „	6 „

VII.—UNITED PROVINCES.

(a) *Garhwal*:—Snowfall occurred only on the highest peaks in the north of the district.

(b) *Almora*:—The total snowfall between the 18th December and the end of January is reported to be 4′ on Malla Danpur, 6⅔′ on Malla Durma, 3⅔′ on Chaudas and 2½′ on Malla Johar. The snow line descended to 13 miles below the perpetual snows in Malla Darma and 4 miles in Malla Danpur.

TABLE 19.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	17	33¾
Binkaru ,,	7	19¼
Pindari peak	4	8
Kaphini ,,	4	7⅓
Kuntela ,,	4	7⅓
Untadhura	5	15
Kalamdhura	5	10
Milamdhura	5	12
Nandakot	4	...

VIII.—NORTH-EAST HIMALAYAS.

Sikkim—Four and a half feet of snow fell at Yatung.

NORTH-EAST FRONTIER TRACT.

(*a*) *Western Section.*—On account of heavy snow the upper road north of Tawang to Tsona Jang and the Mila Katang La were closed for traffic.

(*b*) *Eastern Section.*—Only one snowstorm was observed in the third week of the month. The snow line came down to 7,500 feet.

(*c*) *Kamrup.*—The total fall of snow during the month was 4″ on Tangson hill, 1 foot on Ongrila and Fengla hills and 2″ on Tumkha hill.

Summary.

15. The snowfall of the month was about normal in Persia, and considerably below normal in the North-West Frontier Province and the western Himalayas; it was slightly above normal in the Western Section of the North-East Frontier tract.

V. DORAISWAMY IYER.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in January, 1918.

Tabl

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three pre...
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	30·109	29·969	·131	30·025	+·007	29·993	75·6	53·2	22·4	77·8	47·8	30·0	68·3	73·7	63·4	−1·8	51·7	58·2	59·6	56
	VI.—Punjab.																					
11	Lahore	702	29·413	29·318	·095	29·356	+·030	30·068	68·5	39·4	29·1	74·8	35·2	39·6	53·9	67·9	52·0	−1·0	37·8	47·8	54·8	4
	IX.—Rajputana.																					
18	Jaipur	1,431	28·681	28·572	·109	28·617	+·033	30·016	72·6	45·4	27·2	79·8	36·2	43·6	64·1	71·5	57·6	−2·3	41·2	50·6	53·7	4
	X.—Bombay.																					
25	Bombay	37	29·982	29·866	·116	29·929	−·026	29·906	83·3	68·2	15·1	86·6	62·8	21·0	74·3	78·9	74·9	+0·4	61·5	65·5	70·3	6
	XIV.—Mysore.																					
29	Bangalore	3,021	27·020	26·905	·115	26·961	−·025	29·639	78·8	58·7	20·1	84·8	51·6	33·2	70·9	76·3	67·8	+0·3	57·6	62·0	63·2	6
	XV.—Madras.																					
31	Pudukkottai	318	29·684	29·558	·126	29·621		29·871	84·9	69·3*	15·6	91·6	64·9	26·7	77·8	82·5	77·1*			69·9	70·1	
	Madras	22	30·002	29·898	·104	29·947	−·049	29·900	81·9	69·9	12·0	85·0	64·9	20·1	78·6	78·9	75·0	−0·3	68·7	73·2	72·8	71
	Hill stations, excluding Kashmir and Baluchistan.																					
	Sarain																					
	Kalabagh																					
	Katmandu	4,388	25·739	25·641	·098	25·684	−·003	25·638	66·1	34·1	32·0	70·2	29·4	40·9	48·2	61·8	49·4	−0·2	32·8	43·7	50·1	
	Kodaikanal	7,688	22·837	22·772	·065	22·805		22·739	61·0	45·2	15·8	67·8	37·2	30·6	56·2	55·8	53·1		42·1	50·1	52·7	
	Extra India.																					
	Seychelles	15	29·960	29·867	·093	29·924	−·001	29·862	80·6	76·5	4·1	82·2	73·4	8·8	78·9	79·4	77·9	−1·2	70·9	74·5	74·6	7
	Mauritius	181				29·695	−·009	29·825	84·7	71·6	13·1	88·0	67·6	10·4			77·7	−1·1				

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 2,200 feet.

* Mean of 30 days.

A.

tations in India, etc., in January, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from								Mean wind direction.	Normal mean wind direction of month.								
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·368	·353	·323	·365	—·066	90	51	39	62	— 8	1·9	2·2	2·1	+0·6	2	17	4	4	1	0	2	5	27	N 26° W	N 30° W	66	44	59	45	0	0	Calcutta	5
																															VI.—Punjab.	
·207	·254	·258	·214	—·025	85	61	39	65	— 5	1·0	1·1	1·1	—2·6	21	3	3	3	3	0	0	6	23	N 38° W	N 30° W	40	21	20	30	0·09	0·09	Lahore	11
																															IX.—Rajputana.	
·210	·202	·196	·209	—·059	62	34	27	47	— 9	1·0	1·4	1·2	—2·1	1	18	4	11	10	3	3	2	10	N 33° E	N	29	18	69	58	0·23	0·20	Jaipur	18
																															X.—Bombay.	
·458	·513	·627	551	—·040	66	60	63	67	— 5	1·2	1·7	1·5	+0·4	0	4	10	14	3	0	0	11	20	N 5° W	N 6° E	37	58	157	174	0	0	Bombay	25
																															XIV.—Mysore.	
·466	·457	·430	·455	+·047	94	61	49	70	+ 8	4·8	5·3	5·1		1	8	21	27	4	1	0	0	0	N 67° E	N 88° E	77	78	148	93	0·82	0·36	Bangalore	28
																															XV.—Madras.	
	·625	·571				66	52			5·5	6·0	5·7		7	4	41	7	2	0	0	0	1	N 49° E		79		137		1·78	0·90	Pudukkottai	31
·688	·745	·724	·735	+·050	94	76	74	84	+ 5	5·7	4·7	5·2	+1·1	0	19	30	4	2	2	1	1	3	N 31° E	N 51° E	72	78	139	100	8·05	2·46	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
																															Sarain.	
																															Kalabegh.	
·171	·235	·229	·220	—·033	87	70	42	70	— 7	2·3	2·0	2·1	—1·3	0	3	0	27	0	1	0	31	0	N 67° W	N 78° W	8	46	12	15	0	0	Katmandu.	
·238	·398	·367	·303		78	68	83	76		5·0	8·0	6·5		1	7	9	9	19	2	0	4	11	N 72° E		29		194		6·08	2·48	Kodaikanal.	
																															Extra India.	
·817	·796	·795	·758	—·069	71	89	79	80	— 4	7·6	7·6	7·6	+0·6†	7	5	1	0	0	0	1	1	47	N 42° W	N 39° W	32	61	146	107	23·18	3·70	Seychelles.	
			708	—·045				73	— 3			5·5	—0·7										S 88° E	S 87° E			199	187	5·28	1·42	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in January, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
urma	+·012	81·4	−2·0	59·9	0	70·7	−1·0	21·5	+0·4	+11	82	− 5	·513	−·033	4·1	+1·9	0·06	0·13	−0·07
ssam	+·012	73·8	+0·6	49·5	−1·3	61·7	−0·4	24·2	+0·2	+20	92	− 2	·374	−·028	3·3	−1·1	0·16	0·75	−0·59
engal	+·015	76·1	−1·5	52·5	−2·1	64·3	−1·8	23·6	−0·4	0	81	− 5	·388	−·050	1·7	0	0·03	0·38	−0·35
r and Orissa	+·024	75·2	−2·2	50·1	−3·0	62·6	−2·6	25·1	−0·2	+ 6	75	− 4	·339	−·049	2·1	+0·1	0·10	0·50	−0·40
nited Provinces of Agra and Oudh	+·033	71·9	−0·6	44·3	−2·9	58·1	−1·7	27·6	−0·4	+ 4	74	− 6	·266	−·045	1·2	−1·7	0·20	0·82	−0·62
unjab	+·039	68·3	+0·6	40·3	−2·1	54·3	−0·7	26·0	+0·2	+ 9	77	0	·228	−·021	1·3	−2·2	0·20	1·09	−0·89
orth-West Frontier Province	+·023	67·3	+1·5	36·4	−2·5	51·9	−1·1	30·9	−0·7	−11	67	− 4	·177	−·029	1·3	−2·6	0·10	1·46	−1·36
ind	+·037	75·0	0	48·2	−2·6	61·6	−1·3	26·8	−1·2	+ 7	63	+ 2	·252	−·021	0·5	−2·2	0	0·25	−0·25
ajputana	+·036	73·1	−1·2	45·5	−3·0	59·3	−2·1	27·6	−0·4	+ 8	58	0	·212	−·022	1·2	−1·5	0·18	0·31	−0·13
ombay	−·010	82·5	−1·2	56·9	−0·6	69·7	−0·9	25·6	+0·1	+ 1	58	− 3	·349	−·032	1·8	+0·6	0·13	0·09	+0·04
entral India	+·027	74·2	−2·2	44·6	−3·7	59·4	−3·0	29·6	−0·7	− 3	65	− 1	·242	−·048	1·1	−1·1	0·02	0·36	−0·34
entral Provinces	+·016	78·2	−3·2	50·9	−2·8	64·5	−3·0	27·3	+0·2	+19	60	− 3	·285	−·040	2·2	+0·2	0·21	0·37	−0·16
yderabad	−·006	82·0	−3·6	59·2	−0·7	70·6	−2·2	22·9	−0·4	+22	64	+ 3	·419	−·003	3·6	+1·7	0·46	0·15	+0·31
ysore	−·031	80·5	−2·5	59·5	+0·6	70·0	−0·9	21·1	+0·3	+ 3	77	+ 5	·479	+·005	5·0	+1·9	0·48	0·11	+0·37
adras	−·036	83·3	−2·1	67·7	+0·7	75·5	−0·7	15·6	+1·6	+ 3	80	+ 2	·631	+·003	4·3	+1·5	2·52	0·56	+1·97

Table

(2) Abstract of observations taken at 8 hrs. at 21

Number of sub-division.	Station.	Height of barometer above sea level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·828		29·907	29·870	14th	29·788	19th	73·7	68·8	83·1		70·3		76·7		12·8	87·7	24th	67·9	27th
	Mergui	66	29·953	+·015	29·950	29·999	9th	29·896	19th	69·0	63·8	84·0	−4·2	65·3	−2·7	74·6	−3·5	18·7	88·6	1st	61·0	15th
	Tavoy	19	29·995	−·005	29·948	30·03	14th	29·934	19th	68·3	62·7	85·7	−4·1	60·2	−5·0	73·0	−4·5	25·5	90·1	19th	52·8	16th
	Moulmein	94	29·956	+·026	29·990	30·03	10th	29·895	19th	69·2	63·0	85·5	−3·4	64·3	−1·2	74·9	−2·3	21·2	91·0	23rd	59·5	17th
	Rangoon	18	30·074	+·126	29·990	30·10	10th	29·958	25th	68·3	65·1	86·6	−2·4	65·2	+0·5	75·9	−0·9	21·4	94·9	21st	59·0	16th
	Bassein	27	30·025	+·020	29·980	30·11	10th	29·970	19th	69·6	66·4	84·5	−1·3	65·0	+2·8	74·8	+0·6	19·5	90·2	28th	57·8	11th
	Diamond Island	41	29·967	−·015	29·943	30·02	10th	29·915	19th	74·6	73·4	80·5	−2·8	69·5	−2·1	75·2	−2·5	11·4	85·2	24th & 29th,	60·8	10th
	Toungoo	164	29·879	+·015	29·892	29·96	10th	29·805	25th	65·1	63·2	83·2	−1·6	60·6	+3·1	71·9	+0·7	22·6	88·5	27th	49·9	11th
	Kyaukpyu	18	30·01		29·970	30·07	10th & 11th.	29·952	19th	70·0	66·5	78·7		65·1		71·9		13·6	83·4	1st	57·2	31st
	Akyab	20	30·01	−·007	29·975	30·07	11th	29·954	19th	64·6	61·7	79·3	−1·8	59·1	−0·3	69·2	−1·1	20·2	84·9	28th	51·2	31st
3	Minbu	*165*	29·88	0	30·003	29·97	11th	29·790	25th	64·3	58·3	81·5	−2·7	60·0	+2·6	71·0	−0·1	21·9	89·9	28th	49·0	12th
	Yamethin	644	29·38	+·007	30·005	29·46	10th	29·297	25th	63·2	59·5	82·5	−3·1	58·4	+2·8	70·7	−0·1	24·5	89·0	26th	47·8	12th
	Mandalay	250	29·81	+·024	30·024	29·90	11th	29·711	25th	63·0	59·6	83·6	−0·6	57·6	+1·2	70·6	+0·8	26·0	90·5	26th	48·5	12th
	Monywa	*280*	29·79	+·012	30·040	29·88	8th	29·695	25th	61·7	58·0	81·8	+0·1	56·8	+0·3	69·4	+0·2	25·0	87·8	26th & 28th.	48·1	11th
	Lashio	*2,820*	27·23	+·023	27·181	27·30	9th	27·139	24th	51·7	49·8	71·8	−2·8	46·6	+1·0	59·2	−0·9	25·2	78·1	22nd	38·0	11th
	Bhamo	*361*	29·63	+·022	30·034	29·80	8th	29·57	25th	52·5	52·0	75·5	−0·7	46·5	−2·2	60·9	−1·5	23·7	82·2	26th	39·2	18th
	Myitkyina	458	29·60	+·016	30·051	29·89	8th	29·473	25th	54·5	53·0	75·3	+0·9	48·3	−1·2	61·8	−0·1	27·0	79·8	25th	41·4	17th
	II.—Assam.																					
4	Dibrugarh	353	29·731	+·001	30·072	29·82	8th	29·609	25th	51·2	50·4	72·2	+1·6	47·2	−2·1	59·7	−0·3	25·0	76·6	24th	42·6	14th, 15th & 17th.
	Sibsagar	333	29·75	−·04	30·073	29·81	8th	29·611	25th	50·3	49·5	70·3	+0·5	46·1	−3·0	58·2	−1·7	24·2	73·1	24th	40·8	17th
	Tezpur	252	29·84	+·021	30·071	29·93	8th	29·711	26th	52·7	51·5	74·1	+1·1	51·1	−0·6	62·6	+0·3	23·0	75·7	31st	47·7	15th
	Gauhati	196	29·91	+·017	30·076	30·00	8th	29·770	25th	55·2	54·3	74·0	−0·1	49·2	−0·5	61·6	−0·3	24·8	77·0	26th	45·1	15th
	Dhubri	115	29·97	+·019	30·052	30·04	8th	29·835	25th	57·5	55·6	73·2	−0·5	53·3	+0·8	63·2	+0·1	19·9	75·9	25th	46·8	17th
	Silchar	104	29·99	+·019	30·057	30·06	11th	29·888	25th	57·9	55·5	76·8	+1·1	50·3	−2·0	64·6	−0·5	28·5	83·3	16th	46·5	3rd
	Srimangal	66	30·019		30·039	30·07	11th	29·922	25th	47·3	46·5	80·7	+0·8	43·8?	−1·9?	62·3?	−2·1?	36·9	83·7	17th	39·8	17th
	III.—Bengal.																					
5	Cox's Bazar	36	30·005		29·991	30·05	10th	29·930	25th	63·0	60·1	79·5		56·4		67·9		23·1	83·5	27th	49·5	31st
	Chittagong	87	29·974	+·004	30·011	30·051	12th	29·871	19th	58·5	56·2	79·1	+0·8	52·8	−2·5	66·0	−0·9	26·3	80·8	27th	49·4	31st
	Noakhali	43	30·039	+·024	30·031	30·086	12th	29·960	25th	59·4	56·5	77·8	+0·2	53·1	+0·3?	65·5	+0·3?	24·8	80·8	16th & 27th.	49·0	28th
	Barisal	12	30·062	+·013	30·021	30·08	12th	29·965	25th	59·1	56·0	75·2	−2·4	52·9	−2·1	64·0	−2·3	22·3	78·3	25th	47·6	6th
	Narayanganj	26	30·051	+·011	30·027	30·08	12th & 13th.	29·959	26th	58·0	55·0	76·6	−1·0	53·7	−1·6	65·1	−1·3	22·9	79·9	16th	49·6	30th
	Mymensingh	63	30·019	+·015	30·037	30·07	11th	29·913	26th	57·3	54·8	76·2	+1·1	53·7	+0·7	65·0	+0·9	22·5	78·6	16th	50·0	28th
	Bogra	75	30·016	+·017	30·047	30·06	8th	29·895	25th	55·6	53·3	74·4	−1·3	51·4	−0·5	62·9	−0·9	23·0	79·4	25th	46·4	30th
	Dinajpur	123	29·956	+·012	30·042	30·03	13th	29·832	25th	52·6	50·6	74·5	−0·8	48·6	−0·3	61·5	−0·5	25·9	79·3	25th	44·0	27th
	Jalpaiguri	283	29·798	+·018	30·058	29·87	14th	29·676	25th	52·9	52·4	74·6	+1·0?	51·2	+0·3	62·9	+1·1?	23·4	77·8	11th	46·5	16th

N.B.—Elevations in italics indicate barometrical determinations.

B.

stations in India, etc., in January, 1918.

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st January, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
23	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	54	55
																															I.—Burma.
4	1	14	7	2	1	0	1	1	N 61° E		7·1			62		77		·638		5·0		0		0·02	0·48	− 0·46	1·59	2·64	− 1·05	0·02	Victoria Point.
1	4	12	9	4	0	1	0	0	N 66° E	S 4° W	4·9	1·5	+3·4	69	+58	74	− 8	·529	−·192	0·9	−1·9	0	− 1·6	0	1·01	− 1·01	1·36	1·42	− 0·06	0	Mergui.
22	2	6	0	1	0	0	0	0	N 42° E	N 9° W	2·0	0·9	+1·1	27	+20	72	−17	·494	−·169	2·6	+1·7	0	− 0·4	0	0·19	− 0·19	1·13	0·43	+ 0·70	0	Tavoy.
2	1	14	11	0	1	1	0	1	N 63° E	N 48° E	3·3	1·8	+1·5	69	+ 8	69	−16	·489	−·125	1·8	+0·1	0	− 0·2	0	0·28	− 0·28	1·70	0·49	+ 1·21	0	Moulmein.
4	3	13	9	1	0	0	0	1	N 56° E	N 29° E	3·8	2·8	+1·0	69	+37	84	+ 2	·582	+·007	6·1	+4·3	0	− 0·2	0·08	0·23	− 0·15	1·02	0·59	+ 0·43	0·08	Rangoon.
21	1	4	3	0	0	0	1	1	N 43° E	N 2° W	1·6	2·6	−1·0	23	− 9	82	− 6	·613	+·027	4·7	+3·3	1	+ 0·9	0·34	0·13	+ 0·21	2·09	0·52	+ 1·57	0·30	Bassein.
2	4	15	7	0	0	0	0	3	N 43° E	N 14° E	7·7	5·8	+1·9	72	− 9	94	+21?	·809	+·147?	2·3	+0·1	0	− 0·2	0	0·20	− 0·20	3·40	1·04	+ 2·36	0	Diamond Island.
5	11	8	1	2	1	0	1	2	N 20° E	N 9° W	1·4	1·2	+0·2	56	− 9	89	+ 1	·553	+·037	5·9	+4·5	0	− 0·3	0·12	0·23	− 0·11	0·21	0·65	− 0·44	0·07	Toungoo.
22	3	5	1	0	0	0	0	0	N 35° E		0·7			30		83		·615		5·2		0		0	0·08	− 0·08	0·29	0·37	− 0·08	0	Kyaukpyu.
7	14	9	0	0	0	0	0	1	N 15° E	N 21° E	2·2	2·0	+0·2	72	−15	84	− 5	·513	+·003	3·5	+2·4	0	− 0·2	0	0·07	− 0·07	0·17	0·77	− 0·60	0	Akyab.
3	1	0	0	1	0	0	0	26	N 43° W	N 52° W	2·1	4·2	−2·1	82	+31	68	− 7	·412	−·028	4·2	+2·9	0	− 0·1	0	0·05	− 0·05	0	0·55	− 0·55	0	Minbu.
										N 11° W		1·8				79	− 1	·463	+·018	2·9	+1·7	0	− 0·2	0	0·09	− 0·09	0·21	0·58	− 0·37	0	Yamethin.
31	0	0	0	0	0	0	0	0	Calm	N 13° E	1·1	1·5	−0·4	(a)		82	− 1	·466	+·004	5·0	+3·7	0	0	0	0·01	− 0·01	0·02	0·40	− 0·38	0	Mandalay.
3	23	0	0	0	0	0	0	5	N 8° W		2·1			89		81	− 5	·441	−·020	4·8	+3·1	0	0	0	0	0	0	0·42	− 0·42	0	Monywa.
14	2	2	2	3	0	3	1	4	N 11° W		1·9			6		91	0	·349	+·006	2·2	−1·2	0	− 0·5	0	0·31	− 0·31	0	1·24	− 1·24	0	Lashio.
29	0	1	1	0	0	0	0	0	N 66° E	N 18° W	0·5	1·9	−1·4	7	− 9	97	+ 2	·382	−·003	7·9	+5·4?	0	− 1·3	0·01	0·54	− 0·53	0·01	1·15	− 1·14	0·01	Bhamo.
26	3	0	0	0	0	0	0	2	N 18° W		1·5			13		87	− 3	·376	−·031	5·3	+1·9	0	− 1·4	0·08	0·50	− 0·42	0·08	0·97	− 0·89	0·08	Myitkyina.
																															II.—Assam.
29	1	1	0	0	0	0	0	0	N 14° E		0·4			7		94	− 2	·355	−·021	1·8	− 2·9	3	− 0·9	0·84	1·58	− 0·74	0·84	2·02	− 1·18	0·41	Dibrugarh.
19	4	3	2	0	1	0	0	2	N 23° E	N 32° E	1·3	1·3	0	27	+ 4	96	− 2	·353	−·045	7·7	+0·6	1	− 2·8	0·28	1·34	− 1·06	1·23	1·87	− 0·64	0·24	Sibsagar.
21	0	4	4	1	0	1	0	0	N 78° E		1·8			23		94	+ 1	·375	−·013	1·0	−1·3	0	− 1·7	0·02	0·53	− 0·51	0·02	0·82	− 0·80	0·02	Tezpur.
28	1	1	0	1	0	0	0	0	N 52° E		0·9			3		94	− 2	·412	+·013	9·3	+2·6?	0	− 1·4	0	0·34	− 0·34	0	0·55	− 0·55	0	Gauhati.
4	0	9	11	1	2	3	1	0	N 84° E	N 55° E	3·4	2·8	+0·6	49	+10	85	− 7	·401	−·011	1·2	−0·7	0	− 0·9	0·10	0·32	− 0·22	0·10	0·40	− 0·30	0·07	Dhubri.
13	1	6	10	1	0	0	0	0	N 73° E	S 72° E	1·3	1·2	+0·1	53	+47	85	− 6	·410	−·019	1·9	−0·8	0	− 1·8	0·07	0·68	− 0·61	0·07	1·31	− 1·24	0·07	Silchar.
																93	+ 2	·309	−·097	0·5		0	− 1·6	0·08	0·65	− 0·57	0·08	0·96	− 0·88	0·06	Srimangal.
																															III.—Bengal.
23	1	4	3	0	0	0	0	0	N 56° E		1·0			27		84		·485		2·2		0		0	0·09	− 0·09	0	1·15	− 1·15	0	Cox's Bazar.
20	2	9	0	9	0	0	0	0	N 37° E	N 28° E	1·9	2·3	−0·4	33	−22	86	− 2	·422	−·040	1·9	+0·4	0	− 0·5	0	0·31	− 0·31	0	1·11	− 1·11	0	Chittagong.
6	16	7	0	0	0	0	0	2	N 8° E		1·3			71		83	− 6	·419	−·041	1·2	−0·3	0	− 0·8	0	0·30	− 0·30	0	0·61	− 0·61	0	Noakhali.
21	7	3	0	0	0	0	0	0	N 13° E	N 4° E	0·5	1·2	−0·7	30	+19	77	−10	·398	−·080	3·5	+2·2	0	− 0·9	0·02	0·47	− 0·45	0·02	0·91	− 0·89	0·01	Barisal.
24	2	0	0	0	0	0	1	4	N 89° W	N 10° W	0·6	1·7	−1·1	23	−16	81	− 7	·393	−·057	1·1	−1·1	0	− 0·9	0·08	0·33	− 0·25	0·08	0·52	− 0·44	0·08	Narayanganj.
31	0	0	0	0	0	0	0	0	Calm	N 54° E	0·1	0·9	−0·8	(a)		84	− 6	·398	−·024	1·0	−0·4	0	− 1·1	0	0·37	− 0·37	0	0·45	− 0·45	0	Mymensingh.
29	1	1	0	0	0	0	0	1	N	N 19° W	0·5	1·2	−0·7	8	−26	85	+ 1	·377	−·015	1·8	+0·6	0	− 1·2	0·04	0·40	− 0·36	0·04	0·46	− 0·42	0·03	Bogra.
13	3	3	0	0	0	3	8	1	N 67° W	N 61° W	1·5	1·7	−0·2	33	− 3	86	− 2	·342	−·035	1·3	−0·5	0	− 1·0	0·08	0·35	− 0·27	0·08	0·42	− 0·34	0·06	Dinajpur.
31	0	0	0	0	0	0	0	0	Calm	N 18° E	0·9			(a)		90	− 1	·375	−·020	1·6	−0·1	0	− 0·2	0	0·32	−0·32	0	0·45	− 0·45	0	Jalpaiguri.

(a) Indeterminate.

Tab

(2) Abstract of observations taken at 8 hrs. at 214 statio

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Saugor Island	10	30·082	+·020	30·038	30·125	22nd	29·995	25th	57·9	57·9	75·4	−1·5	52·6	−6·6	64·0	−4·1	22·8	78·7	27th	46·2	6th
	Midnapore	149	29·928	+·003	30·035	29·974	14th	29·823	25th	58·3	52·3	76·6	−4·2	52·6	−3·3	64·6	−3·7	24·0	82·6	25th	47·3	6th
	Calcutta	21	30·073	+·015	30·041	30·118	14th	29·974	25th	56·6	53·7	75·6	−1·7	53·0	−2·5	64·3	−2·1	22·6	77·8	25th	47·8	6th
	Jessore	30	30·070	+·026	30·049	30·119	12th	29·947	25th	53·0	53·8	75·4	−1·9	50·5	−2·7	62·9	−2·3	24·9	78·1	21st & 25th.	43·8	6th
	Burdwan	99	29·992	+·012	30·045	30·044	14th	29·892	25th	57·9	53·1	75·9	−2·7	52·6	−2·4	64·2	−2·5	23·3	78·6	25th	46·0	6th
	Berhampore	67	30·035	+·024	30·055	30·093	14th	29·936	25th	56·8	53·6	74·0	−2·5	52·3	−1·2	63·1	−1·9	21·7	79·2	25th	47·3	30th
	IV.—Bihar and Orissa.																					
6	Balasore	50	30·048	+·017	30·046	30·097	14th	29·956	19th & 25th.	57·4	53·7	78·1	−2·6	52·4	−3·8	65·2	−3·3	25·7	79·8	26th	47·1	6th
	Hukitala (False Point)	29	30·055	+·009	30·025	30·096	14th	29·952	25th													
	Cuttack	80	30·014	+·018	30·040	30·058	14th	29·902	25th	60·7	57·6	78·8	−5·0	57·4	−2·8	68·1	−3·9	21·4	85·4	27th	52·2	6th
	Puri	24	30·068	+·016	30·033	30·117	14th	29·973	25th	63·2	59·4	79·9	−0·1	60·7	−2·9	70·3	−1·5	19·2	82·1	3rd & 11th	56·1	7th
	Angul	155	29·623	+·028	30·050	29·677	14th	29·518	25th	59·5	55·5	78·9	−3·0	53·3	−2·6	66·1	−2·8	25·6	84·8	26th & 27th.	45·4	6th
	Sambalpur	486	29·611	+·026	30·074	29·657	14th & 15th.	29·497	25th	59·0	54·9	77·5	−4·5	51·4	−3·9	64·5	−4·2	26·1	87·7	26th	41·2	3rd
7	Chaibasa	733	29·340	+·022	30·076	29·393	14th	29·247	25th	52·5	50·5	75·0	−4·9	48·0	−4·5	61·5	−4·7	27·0	78·9	30th	42·8	6th & 31st,
	Ranchi	2,128	27·904	+·026	30·071	27·972	14th	27·833	25th	53·4	47·5	69·6	−4·2	48·0	−3·4	58·8	−3·8	21·6	75·8	25th	42·7	6th
	Purulia	816	29·263	+·029	30·083	29·337	14th	29·142	24th	55·5	50·4	77·0	−0·5	50·1	−3·3	63·5	−2·1	26·9	82·3	25th	45·1	30th
	Daltonganj	799	29·358	+·017†	30·093	29·415	14th	29·269	19th	45·5*	44·6*	74·9*	−0·5*	40·5*	−6·4*	57·7*	−3·5*	34·4	76·5	13th	25·7	5th
8	Purnea	124	29·964	+·011	30·058	30·032	14th	29·840	25th	50·6	48·9	74·0	−0·3	45·6	−2·4	59·8	−1·3	28·4	78·1	25th	40·9	30th
	Monghyr	155	29·932		30·049	29·996	14th	29·818	25th	56·2	51·1	72·6		50·3		61·4		22·3	77·6	25th	45·5	6th
	Darbhanga	165	29·939	+·033	30·070	30·006	14th	29·836	25th	54·7	51·3	73·1	+0·3	44·7	−6·6†	58·9	−3·1†	28·4	78·5	25th	39·6	22nd
	Pusa	168	29·904		30·061	29·964	14th	29·801	25th	50·2	48·1	74·3		44·7		59·5		29·6	80·2	25th	39·4	30th
	Patna	183	29·929	+·032	30·080	29·985	14th	29·838	25th	55·0	50·1	71·7	−1·0	49·2	−1·5	60·5	−1·3	22·5	75·4	25th	43·3	27th
	Buxar	239	29·889	+·022	30·073	29·928	14th	29·784	24th	52·3	48·3	73·5	−0·4	47·2	−3·1	60·4	−1·7	26·3	77·1	15th	42·6	30th
	Gaya	372	29·741	+·039	30·091	29·801	14th	29·638	24th	55·7	50·4	73·8	−1·6	50·0	−1·5	61·9	−1·5	23·8	78·5	25th	43·5	8th.
	Naya Dumka	489	29·693	+·033	30·075	29·857	14th	29·500	25th	56·9	51·5	74·7	−0·7	47·9	−3·3	61·3	−2·0	26·8	82·0	25th	41·4	30th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·825	+·024	30·061	29·889	14th	29·739	24th	49·7	47·1	72·6	0	45·6	−3·4	58·1	−1·7	27·0	75·7	1st & 2nd	40·8	22nd
	Benares	267	29·336	+·029	30·077	29·899	14th	29·762	24th	51·9	48·5	72·9	−1·1	44·7	−3·3	58·8	−2·2	28·2	75.8	1st	39·7	6th & 2
	Allahabad	309	29·800	+·033	30·087	29·848	8th	29·735	18th	50·6	46·8	72·5	−1·7	44·7	−3·2	58·6	−2·5	27·8	76·0	1st	40·1	31st
	Cawnpore	416	29·692	+·045	30·100	29·744	14th	29·629	18th & 19th.	48·9	45·6	71·7	−0·8	45·2	−2·7	58·5	−1·7	26·5	75·6	1st	41·5	22nd
	Lucknow	368	29·736	+·039	30·091	29·799	14th	29·665	19th	51·7	47·2	73·7	+0·3	44·9	−1·8	59·3	−0·7	28·8	77·3	1st	40·5	22nd
	Bahraich	407	29·671	+·023	30·071	29·743	8th	29·599	25th	49·6	46·6	72·6	+0·4	44·1	−3·2	58·3	−1·4	28·5	76·6	1st	38·4	29th
10	Jhansi	821	29·277	+·028	30·118	29·337	3rd	29·188	18th	51·3	48·4	74·4	−1·5	44·1	−7·4†	59·3	−4·5†	30·3	78·4	7th	39·6	30th
	Agra	555	29·558	+·045	30·115	29·607	15th	29·483	18th	52·8	47·0	70·4	−2·4	45·6	−3·0	58·0	−2·7	24·8	74·3	16th	41·0	2nd
	Mainpuri	518	29·579	+·035	30·096	29·631	15th	29·512	19th	48·7	44·9	72·2	+0·5	43·9	−2·3	58·1	−0·9	28·3	76·8	1st	39·2	22nd
	Bareilly	568	29·496	+·025	30·070	29·538	14th	29·432	19th & 29th.	49·4	45·7	70·7	+0·5	43·7	−2·4	57·2	−0·9	27·0	73·9	1st	38·5	30th
	Roorkee	899	29·170†	+·040†	30·115†	29·227	8th	29·100	25th	43·9	42·4	67·3	−1·6	40·7	−3·2	54·0	−2·4	26·6	71·7	13th	36·7	28th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 13 days.
† " " 24 "

B—*continued.*

in India, etc., in January, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st Jan. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	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	54	55
																															III.—Bengal—*concld.*
0	16	13	1	0	0	0	0	1	N 20° E	N 13° E	5·8	5·3	+0·5	92	+28	88	— 2	·456	—·072	2·4	+0·1	2	+1·1	0·30	0·70	0	0·30	0 60	—0·30	0·19	Saugor Island.
(4	8	1	1	0	0	0	2	5	N 18° W		1·9			12		64	— 7	·317	—·076	1·9	+0·4	0	—1·1	0·02	0·48	—0·46	0·02	0·77	—0·75	0·02	Midnapore.
1	16	1	1	1	0	1	2	14	N 28° W	N 6° W	2·6	1·9	+0·7	2	+40	82	— 3	·375	—·071	1·7	—0·1	0	—0·8	0	0·37	—0·37	0	0·59	—0·59	0	Calcutta.
29	1	0	0	0	0	0	0	1	N 24° W	N 14° W	0·7	1·2	—0·5	7	— 7	74	—12	·358	—·074	1·4	—0·2	0	—0·9	0·02	0·40	—0·38	0·02	0 62	—0·60	0·01	Jessore.
21	5	1	0	0	0	0	1	3	N 17° W	N 23° W	0·8	1·2	—0·4	27	+ 1	71	— 4	·341	—·015	2·0	—0·2	0	—0·8	0·02	0 36	—0·34	0·02	0·53	—0·51	0·02	Burdwan.
22	2	0	0	0	2	1	2	2	N 80° W	N 67° W	0·9	1·2	—0·3	13	—13	79	— 7	·366	—·041	1·2	—0·9	0	—1·1	0	0·37	—0·37	0	0·51	—0·51	0	Berhampore.
																															IV.—Bihar and Orissa.
6	10	2	0	0	0	1	0	14	N 22° W	N 27° W	1·4	2·0	—0·6	69	+19	77	— 4	·367	—·076	2·4	+0·9	0	—1·1	0·06	0·54	—0·48	0·06	0·78	—0·72	0 03	Balasore.
3	24	2	0	0	0	0	0	2	N		6·1			86	+18					2·4	—0·2	0	—0·9	0·07	0·48	—0·41	0·07	1·15	—1·08	0·05	Hukitala (False Point).
29	0	0	1	0	0	0	1	0	Calm	N 8° W	0·8	1·0	—0·2	(a)		82	+ 1	·439	—·044	2·2	+0·1	0	—0·6	0	0·23	—0·23	0	0·55	—0·55	0	Cuttack.
0	22	8	0	0	0	0	0	1	N 10° E		7·4			90		79	— 3	·455	—·102?	3·0	+1·5	0	—0·7	0·01	0·30	—0·29	0·08	0·65	—0·57	0·01	Puri.
2	2	0	1	2	0	0	3	21	N 45° W		2·9			68		75	— 5	·394	—·047	2·6	+0·5	1	—0·2	0·26	0·46	—0·20	0·26	0·77	—0·51	0·22	Angul.
0	20	3	0	0	0	0	0	8	N 7° W	N 32° E	2·7	1·9	+0·8	92	+18	75	+ 2	·381	—·044	2·1	0	1	+0·1	0·27	0·35	—0·08	0·27	0·59	—0·32	0·22	Sambalpur.
23	0	0	0	0	0	8	0	0	S 45° W	S 68° W	1·1	0·9	+0·2	27	—13	86	+ 1	·350	—·033	2·2	+0·5	0	—1·5	0·09	0·68	—0 59	0·09	0·89	—0·80	0·09	Chaibasa.
6	3	0	0	2	0	0	9	11	N 59° W	N 73° W	3·2	3·8	—0·6	50	+20	63	— 2	·258	—·050	2·0	—0·3	1	—0·5	0·32	0·67	—0·35	0·32	0·88	—0·56	0·28	Ranchi.
5	0	0	0	0	0	6	14	6	W		1·9			74		68	— 5	·302	—·057	3·4	+1·2	1	—1·2	0·13	0·73	—0·60	0·13	0·87	—0·74	0·11	Purulia.
26	0	1	1	2	1	0	0	0	S 56° E		1·7			10		92*		·280*		1·1	—0·9	0	—2·1	0·06	0·81	—0·75	0·10	1·04	—0·94	0·06	Daltonganj.
8	0	1	1	0	1	13	6	1	S 59° W	S 74° W	1·6	1·5	+0·3	53	+24	88	— 3	·326	—·030	3·0	+1·4	0	—0·8	0·04	0·41	—0·37	0·04	0·55	—0·51	0·04	Purnea.
6	1	0	1	0	0	17	5	1	S 60° W		4·0			65		68		·312		0·7		0		0·05	0·24	—0·19	0·06	0·70	—0·64	0·06	Monghyr.
27	0	0	0	0	0	4	0	0	S 45° W	S 84° W	1·2	1·9	—0·7	13	—18	78	—10	·337	—·041	0·9	—0·9	0	—1·2	0	0·49	—0·49	0	0·58	—0·58	0	Darbhanga.
14	0	1	0	1	2	8	5	0	S 48° W		1·7			39		85		·310		3·2		0		0	0·12	—0·12	0·01	0·25	—0·24	0	Pusa.
17	0	0	0	1	4	2	7	0	S 51° W	S 70° W	1·7	1·8	—0·1	33	—15	68	—10	·298	—·063	1·1	—1·0	0	—1·2	0	0·55	—0·55	0·13	0·65	—0·52	0	Patna.
7	1	2	1	0	0	13	7	0	S 63° W		2·3			48		72	— 2	·288	—·050	2·9	+0·5	0	—1·4	0·03	0·67	—0·64	0·16	0·88	—0·72	0·03	Buxar.
30	0	0	0	0	1	10	0	0	S 41° W	S 16° W	1·1	2·2	—1·1	33	+ 1	62	—13	·268	—·061	0·8	—1·5	0	—1·3	0	0·64	—0·64	0	0·79	—0·79	0	Gaya.
31	0	0	0	0	0	0	0	0	Calm		0·6			(a)		67	— 8	·312	—·040	1·1	—0·6	0	—1·2	0·12	0·49	—0·37	0·12	0·61	—0·49	0·05	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
8	3	1	2	0	0	2	14	1	N 77° W	N 84° W	1·5	1·2	+0·3	42	+ 7	81	— 1	·290	—·057	0·7	—1·3	0	—1·5	0	0·72	—0·72	0	0·87	—0·87	0	Gorakhpur.
2	0	0	2	1	2	10	2	2	S 43° W	S 49° W	1·6	2·1	—0·5	37	+ 1	76	— 7	·292	—·054	0·7	—1·5	0	—1·6	0	0·67	—0·67	0·10	0·90	—0·80	0	Benares.
3	0	0	0	0	0	1	7	0	S 85° W	N 74° W	1·8	2·8	—1·0	27	+ 1	74	— 5	·271	—·059	6·5	+4·0?	0	—1·8	0	0 76	—0·76	0·39	1·01	—0·62	0	Allahabad.
1	2	2	0	1	1	2	9	3	N 77° W	N 79° W	1·8	2·2	—0·4	33	+ 1	78	—15	·270	—·041	0·2	—1·7	0	—1·5	0·01	0·57	—0·56	0·41	0·76	—0·35	0·01	Cawnpore.
3	0	0	2	0	0	0	8	1	N 84° W	N 84° W	0·7	1·6	—0·9	23	— 6	70	—11	·270	—·043	0·5	—2·0	0	—1·5	0·06	0·33	—0·77	0·27	1·14	—0·87	0·06	Lucknow.
1	1	2	1	0	1	6	5	N 61° W	N 45° W	1·1	1·6	—0·5	27	+ 4	78	— 9	·280	—·060	0·3	—1·6	0	—2·1	0	1·03	—1·03	0	1·33	—1·33	0	Bahraich.
2	2	0	0	0	7	5	2	S 89° W	N 68° W	2·2	1·5	+0·7	32	+14	67	+ 2	·253	—·049	0·9	—0·8	0	—1·4	0·09	0·62	—0·53	0 09	0·87	—0·78	0·09	Jhansi.
2	0	1	1	0	0	7	10	N 56° W	N 56° W	2·0	2·6	—0·6	46	+14	62	— 9	·247	—·030	0·8	—1·8	1	—0·4	0·91	0·55	+0·39	1·00	0·84	+0·16	0·24	Agra.
1	0	0	1	0	0	6	6	N 65° W	N 50° W	0·9	1·2	—0·3	33	+ 5	72	— 5	·248	—·033	0·8	—2·3	1	—0·7	0·18	0·66	—0·18	0 52	1·04	—0·52	0·48	Mainpuri.
0	0	0	0	0	0	0	6	1	N 84° W	N 45° W	0·8	1·6	—0·8	21	— 1	73	—10	·259	—·040	0 6	—2·2	0	—2·4	0·04	1·06	—1·02	0·39	1·39	—1·00	0·04	Bareilly
0	0	0	0	0	0	0	0	6	N 45° W	N 53° W	1·4	1·5	—0·1	20	+ 4	87	+ 2	·250	—·026	1·3	—1·8	1	—1·9	0·33	1·70	—1·37	0·80	2 27	—1·47	0·22	Roorkee.

(a) Indeterminate.

* Mean of 13 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	29·373	+·041	30·112	29·423	5th & 6th,	29·302	6th	50·0	45·0	68·7	1·3	46·8	−0·9	57·8	−1·1	21·9	74·3	15th	42·6	22nd
	Hissar	725	29·376	+·045	30·132	29·447	3rd	29·287	6th	44·9	41·9	70·5	+0·4	40·0	−2·7	55·2	−1·1	30·5	75·7	15th	33·7	21th
	Patiala	779	29·229	+·010?	30·085?	29·310	15th	29·159	29th	45·6	43·1	68·2	·0·6	42·1	−1·4	55·1	−0·4	26·1	72·6	30th	37·4	6th
	Ambala	892	29·165	+·032	30·103	29·221	8th	29·10[illegible]	31st	45·4	43·0	69·1	+1·1	40·8	−2·3	55·0	−0·6	28·3	73·7	30th	35·1	30th
	Ludhiana	812	29·261	+·039	30·114	29·318	15th	29·187	6th & 31st.	44·4	41·9	67·2	+0·8	42·3	−1·9	54·8	−0·5	24·9	71·9	31st	38·6	26th
	Lahore	702	29·377	+·033	30·120	29·447	15th	29·275	6th	40·9	39·4	68·3	−0·1	38·9	−2·2	53·6	−1·1	29·4	74·8	31st	35·2	27th
	Sialkot	830	29·278	+·041	30·128	29·331	14th	29·166	6th	43·6	42·5	65·5	−0·3	38·4	−4·6	52·0	−2·5	27·1	72·0	31st	34·5	26th & 29th.
	Rawalpindi	1,674	28·390	+·040	30·160	28·486	14th	28·297	6th	39·9	37·9	64·0	+1·6	34·0	−4·0	49·0	−1·2	30·[illegible]	70·6	31st	30·3	28th
12	Khushab*	612	29·495	+·042	30·138	29·595	3rd	29·385	6th	43·8	39·9	69·0†	+1·5†	38·4†	−2·9†	53·7†	−0·7	30·6	76·6	6th	33·5	2nd
	Lyallpur	605	29·487		30·120	29·578	3rd	29·383	6th	42·3	39·9	68·4		37·1		52·8		31·3	74·5	31st	32·3	1st
	Montgomery	558	29·546	+·039	30·123	29·647	3rd	29·433	6th	46·6	42·5	69·8	+1·4	40·9	−0·4	55·3	+0·5	28·9	76·4	31st	35·2	1st & 28th.
	Multan	426	29·695	+·035	30·124	29·808	3rd	29·571	6th	47·0	43·0	70·8	+1·1	43·4	+0·1	57·1	+0·6	27·4	75·8	30th	37·0	1st
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·988	+·025	30·187	29·097	3rd	28·882	6th	38·9	36·4†	64·6	+1·6	34·8	−4·8	49·7	−1·6	29·8	72·5	31st	30·0	25th
	D. I. Khan	590	29·043	+·040	30·163	29·642	3rd	29·419	6th	42·7	38·5*	69·9	+1·8	38·0	−2·2	54·0	−0·5	31·9	75·6	30th	32·9	27th
	VIII.—Sind.																					
16	Jacobabad	186	29·958	+·043	30·121	30·081	1st	29·844	6th	47·0	43·1	73·8	+0·8	41·4	−1·8	57·6	−0·5	32·4	79·9	7th	31·6	1st
	Hyderabad	96	30·040	+·034	30·085	30·178	1st	29·914	6th	52·6	47·3	75·1	−1·1	48·4	−2·2	61·8	−1·7	26·7	81·5	31st	41·9	25th
	Karachi	13	30·128	+·033	30·091	30·247	1st	30·032	6th	57·9	50·4	76·0	+0·3	54·7	−3·8	65·3	−1·7	21·3	81·8	10th	48·4	1st
	IX.—Rajputana.																					
17	Bikaner	771	29·336	+·046	30·132	29·429	3rd	29·231	22nd	48·2	42·6	72·6	+1·2	43·8	−4·7	58·2	−1·7	28·8	79·6	9th	35·9	30th
	Jodhpur	780	29·316	+·035	30·110	29·407	3rd	29·172	22nd	52·4	43·9	76·3	+0·3	47·6	−2·0	61·9	−0·9	28·7	81·6	9th	35·8	29th
18	Jaipur	1,331	28·616	+·033	30·132	28·722	3rd	28·553	18th	50·7	43·9	72·5	−1·5	45·2	−2·6	58·9	−2·1	27·3	79·5	31st	36·2	29th
	Ajmer	1,611	28·469	+·034	30·152	28·551	3rd	28·377	18th	46·2	42·2	69·7	−3·7	42·7	−2·9	56·2	−3·3	27·0	75·4	31st	33·7	29th
	Kotah	832	29·265	+·033	30·105	29·342	3rd	29·152	22nd	55·2	48·8	74·4	−2·4	48·1	−2·8	61·2	−2·6	26·3	80·0	18th	43·8	26th & 29th.
	X.—Bombay.																					
19	Deesa	466	29·622	+·034	30·070	29·718	3rd	29·492	22nd	57·6	48·0	82·7	−0·3	49·2	−2·0	66·0	−1·1	33·5	86·9	31st	40·9	26th
	Bhuj	334	29·751	+·014	30·056	29·832	2nd	29·681	22nd	57·7	50·1	76·9	−2·7	46·4	−3·0?	61·7	−5·3?	30·5	85·2	17th	41·3	2nd
	Jamnagar	61	30·017	−·013	30·027	30·105	2nd	29·963	22nd	58·0	50·4	77·2	−1·4	51·4	−1·9	64·3	−1·7	25·8	83·9	17th	42·5	26th
	Dwarka	37	30·053	+·003	30·036	30·135	2nd	29·998	11th	62·5	58·0	77·9	+0·6	58·0	−1·3	68·0	−0·3	19·9	86·3	31st	53·7	2nd
	Rajkot	429	29·622	−·008	30·025	29·704	2nd	29·546	22nd	58·7	48·6	81·1	−2·4	48·5	−2·2	64·8	−2·3	32·6	89·8	31st	39·5	25th
	Veraval	18	30·027	−·014	29·988	30·104	24th	29·961	21st	64·1	55·9	82·3	+1·1	59·3	+0·5	70·8	+0·8	23·0	89·2	29th	51·5	23rd
	Bhavnagar Para	55	30·007	−·007	30·011	30·080	3rd	29·940	22nd	58·3	52·3	82·7	−0·8	51·7	−2·7	67·2	−1·7	31·0	90·2	31st	43·0	25th
	Surat	39	30·011	−·006	29·994	30·081	2nd	29·954	21st	63·0	54·5	86·1	−0·5	57·4	+0·5	71·7	0	28·7	94·1	31st	50·3	24th
	Ahmadabad	163	29·927	+·020	30·048	30·015	3rd	29·829	22nd	62·8	51·5	83·4	−0·6	56·4	−0·7	69·9	−0·7	27·0	90·7	31st	49·7	23rd
25	Bombay	37	29·975	−·028	29·953	30·035	2nd	29·924	20th	70·1	63·8	83·3	+0·8	57·9	0	75·6	+0·4	15·4	87·2	16th	62·8	25th
	Ratnagiri	207	29·772	−·039	29·922	29·820	31st	29·706	19th	75·3	62·8	88·0	+1·1	68·2	+1·8	78·1	+1·5	19·8	94·5	28th	63·2	7th
	Marmagao	60	29·917	−·042	29·913	29·981	31st	29·844	25th	72·2	67·2	83·5	−1·4	69·5	−0·2	76·5	−0·8	14·0	86·9	28th	65·7	10th & 18th.
	Karwar	44	29·942	−·031	29·921	30·013	31st	29·866	25th	68·8	65·2	88·4	+2·0	66·1	+0·3	77·2	+1·1	22·3	93·5	30th	59·8	10th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 30 days.
† " " 26 "

B—*continued.*

in India, etc., in January, 1918—*continued.*

Wind Direction. Number of winds from Calm.	N.	N.E.	E.	S.E	S.	S.W.	W.	N.W	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st January 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															VI.—Punjab.
9	2	0	1	0	0	1	9	9	N 63° W	S 87° W	2·8	2·1	+0·7	58	+21	65	− 3	·239	−·018	0·6	−2 8	2	−0·2	0·34	1·08	−0·74	0·53	1·51	−0·98	0·19	Delhi.
3	2	0	3	6	0	6	7	5	S 62° W	N 36° W	3·4	2·5	+0·9	27	+16	76	0	·230	−·016	1·5	−1·9	1	−0·5	0·31	0·73	−0·42	0·49	1·03	−0·54	0·31	Hissar.
4	1	0	4	1	0	1	7	13	N 53° W		3·5			18		81	+ 2	·246	−·029	1·6	−1·7	1	−1·5	0·20	1·41	−1·21	0·79	1·75	−0·96	0·13	Patiala.
12	6	1	3	0	0	0	2	7	N 16° W	N 48° W	2·9	1·4	+1·5	40	+22	82	− 3	·249	−·029	1·9	−1·6	1	−2·4	0·25	1·62	−1·37	1·14	2·21	−1·07	0·20	Ambala.
26	1	1	0	0	0	0	1	2	N 29° W	N 59° W	1·0	1·2	−0·2	13	− 6	79	− 3	·234	−·035	0·9	−2·9	1	−2·1	0·19	1·82	−1·63	0·39	2·51	−2·12	0·19	Ludhiana.
26	1	1	0	0	0	1	1	1	N 45° W	N 88° W	0·8	1·2	−0·4	16	+ 7	87	+ 3	·223	−·031	0·7	−3·0	0	−2·2	0·09	1·09	−1·00	0·15	1·47	−1·32	0·09	Lahore.
21	1	3	3	0	0	0	1	2	N 31° E	N 49° E	0·9	0·9	0	20	+12	91	+10	·259	−·003	1·5	−1·7	1	−2·0	0·36	2·21	−1·85	0·80	2·86	−2·06	0·29	Sialkot.
17	0	1	0	0	3	5	4	1	S 55° W	N 40° W	2·0	1·5	+0·5	27	+13	83	+ 1	·204	−·021	2·3	−2·2	1	−2·9	0·29	2·65	−2·36	4·50	3·65	+0·85	0·26	Rawalpindi.
24	0	1	1	1	2	1	0	0	S 32° E	N 18° E	1·5	2 1	−0·6	13	+ 2	62	− 6	·191	−·022	1·3	−1·7	0	−1·7	0	0·81	−0·81	0·42	1·22	−0·80	0	Khushab.
13	0	1	1	2	2	5	4	3	S 57° W		1·6			27		80		·215		0·9		0	−1·2	0·04	0·50	−0·46	0 06	0·69	−0·63	0·03	Lyallpur.
11	1	1	3	1	3	1	4	6	N 71° W	N 18° E	2·3	2·5	−0·2	17	+ 3	69	− 2	·220	−·007	0·8	−2·5	0	−1·7	0·06	0·60	−0·54	0·21	0 93	−0·72	0·06	Montgomery.
22	6	3	0	0	0	0	0	0	N 15° E	N 45° E	0·4	0·9	−0·5	27	+ 4	69	− 2	·223	− 016	1·2	−1·7	0	−1·2	0·04	0·44	−0·40	0·06	0·66	−0·60	0 04	Multan.
																															VII.—North-West Frontier Province.
26	0	0	0	0	5	0	0	0	S	S 18° W	0·8	1·8	−1·0	16	−23	70*	− 2	·176*	−·026	1·6	−3·0	0	−3·0	0·08	1·58	−1·50	1·15	2·08	−0·83	0·04	Peshawar.
23	2	2	0	0	0	0	1	3	N 18° W	N 37° W	0·7	1·0	−0·3	20	+ 2	65†	− 6	·179†	−·031	1·0	−2·2	0	−1·4	0	0·52	−0·52	0·16	0·72	−0·56	0	D. I. Khan.
																															VIII.—Sind.
25	0	1	0	2	0	0	0	3	N	N 22° E	0·9	1·6	−0·7	5	−13	71	+ 7	·230	+·011	0·4	−2·7	0	−0·8	0	0·28	−0·28	0·02	0·42	−0·40	0	Jacobabad.
7	21	0	0	0	2	0	0	1	N 2° W	N 7° E	3·5	5·1	−1·6	16	+15	64	+ 7	·256	+·003	0	−2·7	0	−0·6	0	0·22	−0·22	0·15	0·28	−0·13	0	Hyderabad.
1	8	21	1	0	0	0	0	0	N 35° E	N 50° E	5·4	6·7	−1·3	92	+18	55	− 8	·270	−·086	1·2	−1·3	0	−1·2	0	0·56	−0·56	0	0·69	−0·69	0	Karachi.
																															IX.—Rajputana.
11	0	1	7	4	6	2	0	0	S 44° E	N 22° W	2·2	2·7	−0·5	43	+21	60	+ 4	·200	−·016	1·1	−2·0	0	−0·9	0·02	0·35	−0·33	0·09	0·55	−0·46	0 02	Bikaner.
4	2	24	1	0	0	0	0	0	N 44° E		3·3			26		44	− 2	·175	−·020	1·5	−1·5	0	−0·5	0	0·15	−0·15	0·10	0 28	−0·18	0	Jodhpur.
10	4	3	6	5	0	0	0	3	N 63° E	N 6° E	2·8	2·4	+0·4	33	+ 4	55	− 7	·202	−·047	1·2	−1·8	1	−0·2	0·23	0·46	−0·23	0·23	0·68	−0·45	0·20	Jaipur.
29	0	0	0	2	0	0	0	0	S 45° E	N 9° W	0·4	1·6	−1·2	3	−15	71	0	·222	− 035	1·1	−1·6	1	−0·2	0·25	0·37	−0·12	0·25	0·68	−0·43	0·23	Ajmer.
23	0	0	1	1	0	0	4	2	N 79° W		1·0			13		60	+ 3	·260	+·009	0·9	−0·5	0	−0·7	0	0·27	−0·27	0	0·55	−0·55	0	Kotah.
																															X.—Bombay.
1	1	10	16	3	0	0	0	0	N 76° E	N 56° E	5·8	6·2	−0·4	86	+28	44	− 3	·209	−·014	1·3	−0·3	0	−0·3	0	0·12	−0·12	0	0·17	−0·17	0	Deesa.
28	2	0	1	0	0	0	0	0	N 27° E	N 45° W	3·6	4·7	−1·1	7	−11	55	− 5	·263	−·067	1·2	−0·3	0	−0·2	0	0 06	−0·06	0	0·10	−0·10	0	Bhuj.
5	0	6	16	1	3	0	0	0	N 76° E		2·9			68		57	− 3	·272	−·049	1·1	+0·3	0	−0·2	0	0·03	−0·03	0	0·08	−0·08	0	Jamnagar.
0	12	15	4	0	0	0	0	0	N 33° E		8·7			89		74	+ 5	·416	−·032	1·2	−0·3	0	−0·2	0	0·04	−0 01	0	0·09	−0·09	0	Dwarka.
6	5	8	7	1	0	1	1	2	N 44° E	N 55° E	4·4	3·8	+0·6	49	+ 7	43	− 9	·211	−·069	2·3	+1·2	0	−0·2	0	0·04	−0·04	0·01	0·08	−0·07	0	Rajkot.
2	14	15	0	0	0	0	0	0	N 24° E	N 20° E	5·0	4·3	+0·7	92	+17	58	+ 5	·341	+·012	1·2	−0·1	0	−0·1	0	0·02	−0·02	0	0 11	−0·11	0	Veraval.
3	4	1	1	0	2	1	9	10	N 65° W	N 85° W	2·9	5·0	−2·1	54	−11	64	+11?	·317	+·033	2·0	+0·7	0	−0·1	0	0·03	−0 03	0	0·11	−0·11	0	Bhavnagar Para.
4	5	11	8	3	0	0	0	0	N 59° E	N 5° E	3·3	3·6	−0·3	66	+24	54	−10	313	−·062	2·0	+1·1	0	−0·2	0	0·06	−0·06	0	0·10	−0·10	0	Surat
1	0	27	2	0	0	0	0	1	N 46° E	N 48° E	4·5	3·1	+1·4	92	+21	40	− 7	·234	−·033	1·7	+0·2	0	−0·1	0	0·02	−0·02	0	0·05	−0·05	0	Ahmadabad.
0	5	11	13	2	0	0	0	0	N 62° E	N 58° E	6·7	7·2	−0·5	79	− 2	70	− 2	·522	−·029	2·0	+0·7	0	−0·2	0	0 08	−0·08	0	0·14	−0·14	0	Bombay.
0	5	4	10	10	1	0	1	0	S 89° E	S 88° E	6·8	5·6	+1·2	61	+ 6	47	−16?	·409	−·089	1·5	+0·5	0	−0·2	0·01	0·10	−0 09	0·01	0·19	−0·18	0·01	Ratnagiri.
2	1	7	18	2	0	0	0	1	N 77° E	S 84° E	6·1	6·0	+0·1	79	+ 2	76	− 6	605	−·041	2·3	+1·0	0	−0·1	0	0·03	−0·03	0	0·22	−0·22	0	Marmagao.
22	7	2	0	0	0	0	0	0	N 9° E	N 62° E	1·7	2·6	−0·9	27	−60	82	+ 1	·579	+·019	0·8	−0·1?	0	− 0·1	0	0·06	−0·06	0	0·30	−0·30	0	Karwar.

* Mean of 26 days.
† „ „ 30 „

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
26	Malegaon	1,430	28·615	+·014	30·059	28·692	3rd	28·496	19th	58·4	49·0	83·1	−2·7	49·5	−2·5	66·3	−2·6	33·6	90·1	31st	42·9	4th
	Ahmadnagar	2,154	27·870	−·015	30·022	27·931	3rd	27·775	19th	60·2	52·0	81·1	−3·4	52·1	−0·2	66·6	−1·8	29·0	86·2	31st	43·5	11th
	Poona	1,846	28·164	−·020	30·015	28·229	3rd	28·075	19th	60·3	53·7	83·0	−3·2	52·5	−1·7	67·8	−2·5	30·5	89·4	29th	45·9	11th
	Sholapur	1,590	28·415	−·023	29·981	28·474	3rd	28·311	19th	61·0	55·7	84·4	−3·3	59·5	+0·7	71·9	−1·3	23·9	87·8	26th & 28th.	51·7	6th
	Bijapur	*1,948*	28·065	−·009	29·985	28·119	3rd	27·970	19th	65·6	57·6	82·0	−4·4	59·2	−0·7	70·7	−2·5	22·8	87·5	25th	49·2	11th
	Belgaum	2,562	27·455	−·018	29·974	27·507	3rd	27·375	19th	64·9	57·8	80·4	−3·1	58·6	+1·0	69·5	−1·1	21·8	84·1	26th	52·3	12th
	XI.—Central India.																					
20	Neemuch	1,626	28·458	+·036	30·122	28·534	3rd	28·323	22nd	53·9	46·6	74·8	−2·5	46·2	−2·3	60·5	−2·4	28·6	81·9	31st	39·2	5th
	Indore	1,823	28·217	+·009	30·077	28·292	3rd	28·119	18th	54·8	47·8	77·2	−2·2	47·2	−2·4	62·2	−2·3	30·0	82·4	31st	40·9	6th
21	Nowgong	754	29·331	+·024	30·108	29·391	2nd	29·234	18th	44·4	41·9	72·7	−1·5	41·3	−5·8	57·0	−3·7	31·4	77·9	2nd	36·0	30th
	Sutna	1,041	29·040	+·037	30·113	29·089	30th	28·965	19th	49·6	45·3	72·1	−2·5	43·6	−4·4	57·8	−3·5	28·5	77·8	24th	36·8	30th
	XII.—Central Provinces.																					
22	Buldana	2,134								64·3	53·7	78·6	−2·7	56·1	−2·6	67·3	−2·7	22·5	83·9	31st	52·2	4th
	Akola	925	29·133	+·016	30·051	29·205	3rd	29·026	19th	61·3	54·1	83·8	−1·9	51·9	−2·0	67·9	−1·9	31·9	88·9	31st	42·7	4th
	Amraoti	1,215	28·827	+·008	30·039	28·880	27th	28·714	25th	63·2	51·9	82·5	−2·4	57·1	−1·1	69·8	−1·7	25·4	87·0	31st	51·3	2nd
23	Khandwa	1,014	29·013	+·018	30·056	29·091	3rd	28·900	19th	56·5	48·7	81·8	−2·5	49·9	−2·3	65·8	−2·4	31·9	87·6	31st	41·8	6th
	Hoshangabad	1,006	29·075	+·026	30·094	29·147	3rd	28·970	9th	55·5	49·0	77·8	−2·1	48·4	−3·7	63·1	−2·9	29·4	85·9	23rd	40·8	4th
	Saugor	1,807	28·254	+·003	30·084	28·298	3rd	28·148	18th	53·6	45·5	74·6	−2·1	49·0	−3·1	61·8	−2·6	25·6	82·0	23rd	41·6	27th
	Jubbulpore	1,327	28·728	+·021	30·094	28·794	2nd & 3rd.	28·629	19th	50·8	45·9	73·6	−3·9	44·8	−3·5	59·2	−3·7	28·8	80·5	24th	37·1	30th
	Seoni	2,033	28·020	+·024	30·085	28·081	3rd	27·931	19th	56·0	47·9	74·6	−4·7	48·9	−2·5	61·7	−3·6	25·7	79·4	31st	41·4	6th
	Nagpur	1,017	29·038	+·015	30·055	29·104	3rd	28·934	25th	59·4	52·3	80·3	−3·4	52·3	−3·4	66·3	−3·4	28·0	84·6	24th	45·6	9th
24	Pendra	2,040	28·015	+·033	30·098	28·062	2nd	27·928	19th	53·1	49·2	72·2	−3·8	47·7	−3·1	60·0	−3·5	24·5	78·5	24th	41·9	6th
	Raipur	870	29·084	+·010	30·053	29·140	2nd	28·989	25th	58·3	53·0	76·8	−4·8	52·1	−3·3	64·4	−4·1	24·7	81·7	24th	45·7	5th
	Chanda	654	29·419	+·002	30·032	29·480	3rd	29·303	19th	60·3	55·2	81·8	−5·7	51·6	−3·3	66·7	−3·5	30·2	87·5	24th	42·0	4th
	Jagdalpur	1,813	28·207		30·021	28·253	3rd	28·112	18th	58·3	55·3	78·5		51·7		65·1		26·8	85·4	26th	43·3	9th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·128	−·010	30·022	28·198	3rd	28·034	19th	64·1	53·6	82·0	−3·2	56·0	+0·7	69·0	−1·3	26·0	87·9	31st	46·1	18th
	Nizamabad	1,248	28·775	?	30·011	28·841	3rd	28·666	25th	64·0	57·3	83·0	−2·6	55·2	−1·2	69·1	−1·9	27·8	89·9	26th	45·0	5th
	Bidar	*2,168*								68·4	62·1	81·6	−1·8	57·7	−2·9	69·6	−2·4	23·9	88·2	25th	53·7	2nd
28	Gulbarga	1,503	28·500	−·029	29·981	28·549	30th	28·387	19th	66·4	58·9	84·7	−2·7	59·0	−1·0	71·9	−1·9	25·7	88·5	31st	49·0	6th & 16th.
	Raichur	*1,311*	28·704	+·004	29·986	28·752	4th	28·596	19th	65·3	63·0	83·7	−3·3	64·4	−0·1	74·1	−1·7	19·3	88·6	25th	55·8	16th
	Hyderabad (Deccan)	1,738	28·305	−·007	30·005	28·351	3rd	28·191	19th	65·2	60·6	78·6	−6·3	60·0	+0·3	69·3	−3·0	18·6	84·3	26th	51·2	11th
	Hanamkonda	877	29·170	+·011	30·018	29·225	3rd	29·073	19th	67·7	60·2	80·7	−5·0	61·9	−0·9	71·3	−2·9	18·8	86·0	30th	55·0	10th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·590	−·026	29·943	27·647	31st	27·513	25th	66·8	61·2	81·3	−3·1	61·4	−0·7	71·4	−2·1	19·9	86·6	20th	52·0	16th
	Hassan	3,142	26·879	−·023	29·947	26·936	31st	26·810	18th	64·4	60·4	80·0	−2·3	57·6	+2·1	68·8	−0·1	22·4	83·3	27th	52·0	30th
	Bangalore	3,021	26·999	−·039	29·948	27·055	31st	26·933	18th & 19th	63·7	60·2	73·9	−1·8	58·7	+1·3	68·8	−0·3	20·2	84·8	21st	51·6	10th
	Mysore	2,518	27·482	−·037	29·937	27·558	31st	27·415	18th	67·7	62·2	82·0	−2·4	60·1	−0·3	71·1	−1·3	21·9	85·5	21st	55·0	30th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in January, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st January 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*concld.*
0	2	2	1	0	2	11	9	4	S 73° W	N 68° W	3·1	3·7	−0·6	56	− 9	48	− 5	·236	−·045	2·7	+1·5	0	−0·3	0	0·14	−0·14	0	0·35	−0·35	0	Malegaon.
14	1	1	0	3	2	0	2	8	N 56° W	N 5° W	3·8	4·3	−0·5	20	+13	55	− 2	·289	−·040	1·8	+0·7	1	+0·8	1·86	0·12	+1·74	1·86	0·60	+1·26	1·80	Ahmadnagar.
15	2	3	2	0	0	0	4	5	N 25° W	S 70° W	4·8	4·5	+0·3	27	−41	64	+5?	·337	+·020?	1·5	+0·3	1	+0·8	0·22	0·06	+0·16	0·22	0·23	−0·01	0·22	Poona.
4	1	7	9	9	1	0	0	0	S 86° E	S 66° E	7·2	5·7	+1·5	66	+11	46	− 1	·311	−·012	2·6	+1·1	1	+0·8	0·11	0·15	−0·04	0·11	0·65	−0·54	0·11	Sholapur.
0	2	5	10	4	9	0	0	1	S 70° E	S 58° E	3·0	3·1	−0·1	56	+12	59	− 6	·376	−·062	3·0	+1·2	0	−0·1	0·04	0·09	−0·05	0·04	0·35	−0·31	0·04	Bijapur.
10	1	2	14	4	0	0	0	0	S 85° E	S 81° E	9·0	7·3	+1·7	89	+16	63	+ 4	·393	+·011	2·7	+1·1	1	+0·8	1·08	0.12	+0·96	1·08	0·53	+0·55	1·03	Belgaum.
																															XI.—Central India.
10	1	5	10	4	1	0	0	0	N 87° E	N 48° E	4·0	4·7	−0·7	53	+ 3	55	− 1	·229	−·021	0·7	−1·0	0	−0·4	0	0·21	−0·21	0	0·40	−0·40	0	Neemuch.
18	0	6	5	1	0	0	1	0	N 69° E	N 36° E	1·4	1·8	−0·4	30	+19	58	− 3	·252	−·042	1·4	−0·6	0	−0·4	0	0·12	−0·12	0	0·36	−0·36	0	Indore.
13	2	3	3	1	1	3	3	2	N 24° W	N 50° W	1·2	1·0	+0·2	7	−19	79	+ 3	·233	−·071	1·8	−0·8	0	−1·7	0·05	0·63	−0·58	0·05	1·09	−1·04	0·05	Nowgong.
22	0	0	1	1	2	3	2	0	S 27° W	N 20° W	1·1	3·0	−1·9	20	−16	70	− 1	·254	−·057	0·6	−1·9	0	−2·0	0	0·89	−0·89	0·66	1·27	−0·61	0	Sutna.
																															XII.—Central Provinces.
2	1	2	12	9	0	0	2	3	S 83° E		4·0	4·2	−0·2	52		47		·283		3·0		1	+0·5	0·12	0·23	−0·11	0·12	0·84	−0·72	0·12	Buldana.
11	0	2	13	1	1	0	0	3	N 82° E	S 84° E	2·7	2·7	0	43	+ 8	50	− 4	·272	−·029	2·6	+0·6	1	+0·5	0·13	0·33	−0·20	0·13	1·01	−0·88	0·13	Akola.
6	0	13	11	1	0	0	0	0	N 68° E	N 87° E	3·5	3·1	+0·4	72	+11	42	− 9	·211	−·079?	1·5	0	0	−0·7	0·03	0·40	−0·37	0·03	0·95	−0·92	0·03	Amraoti.
6	5	9	7	0	1	1	1	1	N 47° E	N 39° E	3·1	2·4	+0·7	49	+26	53	− 2	·243	−·030	3·2	+1·7	0	−0·5	0·04	0·21	−0·17	0·04	0·52	−0·48	0·04	Khandwa.
16	0	12	0	3	0	0	0	0	N 59° E	N 63° E	1·2	2·0	−0·8	43	−14	60	− 5	·264	−·044	1·8	−0·1	0	−0·8	0·01	0·25	−0·24	0·01	0·72	−0·71	0·01	Hoshangabad.
8	1	8	7	5	1	1	0	0	N 84° E	S 84° E	3·6	2·6	+1·0	49	+20	50	− 5	·209	−·054	1·0	−0·8	0	−1·2	0	0·55	−0·55	0	1·03	−1·03	0	Saugor.
10	2	1	4	10	2	0	1	1	S 61° E	S 63° E	1·3	1·5	−0·2	40	+ 4	67	− 8	·251	−·072	1·2	−0·8	0	−1·5	0	0·68	−0·68	0·96	0·97	−0·01	0	Jubbulpore.
16	6	7	0	1	1	0	0	0	N 32° E	N 39° E	1·7	1·9	−0·2	37	+ 5	52	−13	·233	−·093	2·4	+0·6	0	−1·2	0	0·51	−0·51	0	1·06	−1·06	0	Seoni.
2	6	11	6	0	0	0	0	5	N 30° E*	N 13° E	3·1†	2·6	+0·5	66	+34	59	− 1	·302	−·040	2·0	+0·2	1	+0·2	0·16	0·35	−0·19	0·16	0·93	−0·77	0·16	Nagpur.
15	6	2	0	0	1	0	0	7	N 17° W		2·7			37		74	+10	·302	+·007	1·8	−0·2	2	+0·1	0·38	0·65	−0·27	0·38	1·00	−0·62	0·21	Pendra.
2	3	12	12	0	1	0	1	0	N 62° E	N 13° E	2·0	2·0	0	69	+59	68	+ 4	·238	−·016	1·9	+0·1	2	+1·3	0·95	0·22	+0·73	0·95	0·48	+0·47	0·46	Raipur.
5	10	11	1	1	0	0	0	3	N 21° E	N 68° E	2·0	1·5	+0·5	69	+41	71	+ 1	·378	−·025	2·1	+0·4	0	−0·4	0·07	0·25	−0·18	0·07	0·51	−0·44	0·05	Chanda.
24	1	1	4	0	0	0	0	1	N 59° E		1·0			13		82		·406		3·7		2		1·53	0·33	+1·20	1·53	0·48	+1·05	1·15	Jagdalpur.
																															XIII.—Hyderabad.
1	2	6	17	5	0	0	0	0	N 84° E		5·4			82		44	− 4	·268	−·048	3·2	+2·2	0	−0·4	0	0·26	−0·26	0	0·57	−0·57	0	Aurangabad.
28	0	1	0	1	1	0	0	0	S 52° E		1·1			3		65	+ 2	·385	−·047	2·9	+1·4	1	+0·7	0·14	0·14	0	0·14	0·26	−0·12	0·14	Nizamabad.
0	2	11	6	10	0	2	0	0	N 87° E					61		69	+ 6	·481	+·021			2	+1·5	0·37	0·23	+0·14	0·37	0·48	−0·11	0·25	Bidar.
3	1	9	13	1	3	1	0	0	N 81° E	S 86° E	3·1	5·2	−2·1	62	+30	63	+ 5	·412	+·014	2·4	+1·1	0	−0·2	0·02	0·17	−0·15	0·02	0·36	−0·34	0·02	Gulbarga.
0	2	11	8	7	2	1	0	0	N 84° E	S 85° E	5·8	5·9	−0·1	66	+13	69	+ 7	·420	+·026	3·9	+2·0	0	−0·1	0·10	0·10	0	0·10	0·27	−0·17	0·07	Raichur.
12	0	7	4	8	0	0	0	0	S 87° E	S 51° E	3·5	2·6	+0·9	47	+22	77	+ 4 P	·475	+·018	4·1	+2·0	2	+1·6	0·30	0·21	+0·09	0·60	0·35	+0·45	0·38	Hyderabad (Deccan).
1	8	0	0	6	7	0	0	9	N 31° W		3·1			13		62	−10	·424	−·086?	4·9	+1·7	2	+1·4	0·69	0·34	+0·35	0·69	0·66	+0·13	0·42	Hanamkonda.
																															XIV.—Mysore.
3	0	4	14	9	0	0	1	0	S 81° E	S 69° E	5·1	4·9	+0·2	72	+17	72	+10	·471	+·016	5·0	+3·0	2	+1·8	4·20	0·12	+4·08	4·20	0·49	+3·71	4·10	Chitaldrug.
8	0	4	15	4	0	0	0	0	E	S 80° E	3·6	2·1	+1·5	67	− 2	80	+ 6	·483	+·010	5·2	+1·9	1	+0·8	0·52	0·05	+0·47	0·52	0·84	−0·32	0·39	Hassan.
0	2	13	12	3	1	0	0	0	N 71° E	N 87° E	6·1	3·9	+2·2	79	− 3	81	+ 2	·473	0	5·5	+2·2	2	+1·6	0·82	0·25	+0·57	0·88	0·71	+0·17	0·36	Bangalore.
0	3	15	9	0	1	1	1	1	N 54° E	N 72° E	5·8	6·4	−0·6	69	− 1	73	0	·491	−·005	4·2	+0·7	1	+0·8	0·12	0·13	−0·01	0·13	0·52	−0·39	0·12	Mysore.

* Wind less.

† Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.														*							
30	Mangalore	72	29·893	—·053	29·897	29·976	31st	29·821	25th	76·3	68·1	89·5	+0·4	70·4	+1·8	80·0	+1·1	19·1	93·4	30th	65·2	1st
	Calicut	27	29·931	—·016	29·887	30·016	31st	29·860	25th	74·7	71·0	86·6	−0·8	71·1	+0·8	78·8	0	15·5	88·6	3rd	65·2	18th
	Cochin	9	29·942	—·047	29·879	30·019	31st	29·873	25th	75·2	70·3	88·5	−0·8	72·3	+0·5	80·4	−0·1	16·2	91·7	29th	67·9	30th
	Trivandrum	198	29·750	—·029	29·880	29·818	31st	29·680	25th	74·0	71·2	82·1	−1·6	71·4	−1·1	76·8	−1·3	10·7	85·1	13th	67·6	19th
31	Pamban	37	29·925	—·063	29·890	29·996	31st	29·868	25th	77·6	74·7	82·6	−0·1	73·3	−1·2	78·0	−0·7	9·3	84·5	1st	72·5	23rd & 25th.
	Madura	447	29·529	—·054	29·916	29·007	31st	29·451	18th	75·9	70·1	86·1	−1·3	69·9	+1·1	78·0	−0·1	16·2	91·0	2nd, 13th & 19th.	65·9	7th
	Pudukkottai	318	29·671	—·044	29·927	29·741	28th	29·604	2nd	73·6	68·7	84·9	−1·9	69·3*	+1·6	77·1*	−0·1	15·6	91·3	18th	64·9	17th
	Negapatam	31	29·952	—·046	29·913	30·024	31st	29·887	18th	72·6	70·6	81·5	−0·9	71·8	+0·4	76·6	−0·3	9·7	84·3	1st	66·9	17th
	Trichinopoly	255	29·738	—·046	29·931	29·819	31st	29·663	18th	74·0	69·3	87·0	−0·5	68·7	+1·2	77·9	+0·3	18·3	93·1	19th	63·1	9th
	Coimbatore	1,341	28·648	—·036	29·943	28·726	31st	28·584	18th	70·8	66·3	85·5	−1·2	64·6	+0·2	75·0	−0·5	20·9	89·0	13th & 22nd.	57·6	30th
	Salem	913	29·077	—·038	29·945	29·161	31st	29·003	18th	70·8	67·1	85·6	−3·0	64·8	+0·4	75·2	−1·3	20·8	90·5	20th	57·8	29th
	Cuddalore	37	29·953	—·053	29·920	30·025	31st	29·864	18th	73·0	70·2	81·6	−1·7	69·9	+1·8	75·8	+0·1	11·7	88·8	1st	65·6	9th
	Vellore	707	29·294	—·044	29·958	29·360	28th	29·191	18th	66·8	67·1	81·6	−3·1	65·3	+0·3	73·5	−1·4	16·3	87·6	1st	57·4	10th
	Madras	22	29·979	—·053	29·931	30·048	31st	29·839	17th	74·3	71·7	82·0	−2·7	70·0	+2·4	76·0	−0·1	12·0	86·9	1st	64·9	6th
32	Cuddapah	423	29·587	—·030	29·964	29·645	31st	29·489	19th	71·4	67·8	84·2	−4·7	66·2	+0·8	75·2	−1·9	18·0	90·8	1st	59·0	10th
	Bellary	1,475	28·532	—·028	29·975	28·587	31st	28·441	19th	68·6	63·1	84·4	−3·8	62·8	+1·2	73·6	−1·3	21·6	90·1	21st	54·6	10th
	Kurnool	923	29·096	—·011	29·985	29·139	28th	28·982	19th	68·1	63·4	84·9	−3·8	62·3	+2·1	73·6	−0·9	22·6	89·8	31st	53·0	16th
33	Nellore	66	29·948	—·041	29·950	30·017	31st	29·754	18th	72·9	70·4	80·9	−5·0	68·2	+1·2	74·5	−1·9	12·7	86·6	1st	62·4	10th
	Masulipatam	15	30·029	—·031	29·979	30·085	30th	29·905	18th	70·6	67·5	81·1	−2·4	66·3	+0·4	73·7	−1·0	14·8	86·5	1st	60·2	9th
	Cocanada	26	30·030	—·016	29·992	30·081	30th	29·920	18th	71·1	66·9	78·7	−2·9	66·2	−0·1	72·4	−1·5	12·5	80·8	1st & 30th	59·3	9th
	Waltair (Vizagapatam)	*226*	29·831	—·012	30·005	29·899	30th	29·743	19th	71·1	64·5	79·9	−0·9	67·5	−0·4	73·7	−0·7	12·4	83·2	29th	61·4	6th
	Calingapatam	19	30·054		30·011	30·095	30th	29·935	19th	67·1	62·8	79·2		63·0		71·1		16·2	86·0	27th	55·2	9th
	Gopalpur	33	30·033	+·019	30·031	30·088	14th	29·937	25th	65·5	61·0	77·8	−2·9	61·4	−0·8	69·6	−1·6	16·4	81·2	30th	54·9	9th
	Bay Islands.																					
1	P. V. Fraser	8	30·077		30·024	30·140	22nd	30·015	25th	71·8	64·4											
	Port Blair	58	29·914	—·025	29·902	29·955	26th	29·876	14th	79·4	74·1	84·5	−1·9	75·9	+0·3	80·2	−0·8	8·6	87·0	1st	71·1	9th
	Table Island		29·896	—·039	29·921	29·934	23rd	29·855	19th	77·2	72·1	81·6	−1·9	74·5	−0·4	78·1	−1·1	7·1	83·6	23rd	71·3	10th
	Kashmir.																					
13	Muzaffarabad		27·740			27·828	3rd	27·661	18th	44·1†	38·0	58·3		?		?		?	65·8	30th	?	
	Srinagar	5,204	25·085	+·097	25·056	25·199	9th	24·926	18th	27·5		33·4	−7·2	25·9	−0·6	29·6	−3·9	7·5	42·5	15th	20·0	28th
	Gulmarg	8,569																				
	Dras	*10,059*	20·897	+·126	20·665	21·053	9th	20·686	18th	−18·4		6·9	−12·3	−25·0	−14·4	−9·0	−13·3	31·9	20·9	15th	−35·1	27th
	Leh	*11,503*	19·714	+·065	19·682	19·890	9th	19·529	25th	8·3		30·9	+0·6	3·7	−4·8	17·3	−2·1	27·2	36·2	12th	−8·3	27th
	Skardu	*7,505*	23·050	+·098	23·020	23·242	9th	22·826	18th	15·7		34·2	−0·3	11·4	−2·2	24·3	−1·3	19·8	38·2	15th	8·9	8th
	Gilgit	4,890	25·382	+·110	25·355	25·580	29th	25·138	13th	33·6	33·1†	48·3	+2·7	29·2	−2·8	38·8	−0·1	19·1	52·2	31st	26·2	20th, 25th & 26th.

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 8,200 feet.

* Mean of 30 days.
† " " 7 "

B—*continued.*

in India, etc., in January, 1918—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st January 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
0	1	5	24	1	0	0	0	0	N 82° E	S 85° E	4·8	2·3	+2·5	92	+14	64	— 2	·578	—·001	2·8	+0·6	0	— 0·2	0·02	0·07	— 0·05	0·02	0·57	— 0·55	0·01	Mangalore.
5	1	11	11	2	0	0	0	1	N 67° E	N 80° E	3·0	6·1	—3·1	69	—14	82	+ 4	·707	+·023	2·1	+0·4	0	— 0·5	0·05	0·37	— 0·32	0·35	1·52	— 1·17	0·05	Calicut.
2	0	11	18	0	0	0	0	0	N 73° E	N 42° E	3·9	3·7	+0·2	89	+ 8	75	+ 2	·668	+·015	3·1	+1·3	4	+ 3·2	1·49	0·59	+ 0·90	3·73	2·35	+ 1·38	0·68	Cochin.
12	3	10	4	2	0	0	0	0	N 55° E	N 44° E	2·6	2·9	—0·3	49	— 1	87	+10	·726	+·045	5·8	+2·7	8	+ 6·6	5·68	0·63	+ 5·05	6·43	3·03	+ 3·40	2·05	Trivandrum.
0	11	9	2	0	1	1	1	6	N 7° E	N 15° E	1·5	8·3	—4·2	36	+22	67	+ 2	·822	+·022	4·8	+1·1	8	+ 4·9	5·05	1·76	+ 3·29	9·20	9·40	— 0·20	1·25	Pambau.
0	0	9	3	0	1	0	2	6	N 9° E	N 3° E	1·9*	3·7	—1·2	62	—17	76	+ 1	·674	+·013	6·7	+3·8	7	+ 6·0	3·31	0·45	+ 2·86	6·22	2·26	+ 3·96	1·15	Madura.
4	9	14	3	0	0	0	0	1	N 31° E		5·7			74		77	— 6	·638	—·051	5·0	0	4	+ 2·4	1·78	0·83	+ 0·95	3·97	3·75	+ 0·22	0·90	Pudukkottai.
1	5	10	0	0	1	1	2	11	N 11° W	N 1° W	10·9	5·7	+5·2	59	— 2	81	0	·697	—·033	5·5	+0·3	4	+ 1·6	3·22	1·61	+ 1·61	6·75	13·45	— 6·70	1·79	Negapatam.
6	9	8	0	0	0	1	2	4	N 3° E	N 18° E	3·6	3·2	+0·4	56	+ 3	78	— 1	·657	—·001	5·1	+2·0	5	+ 3·9	1·94	0·54	+ 1·40	2·18	3·23	— 1·05	0·94	Trichinopoly.
11	2	12	6	0	0	0	0	0	N 54° E	N 67° E	3·5	2·1	+1·4	56	—16	78	— 6	·592	—·034	3·5	—0·8	1	0	0·67	0·55	+ 0·12	1·09	1·77	— 0·68	0·52	Coimbatore.
7	1	11	4	1	1	3	3	0	N 55° E	N 56° E	3·8	3·5	+0·3	27	—15	82	+ 5	·616	+·002	3·5	+0·6	1	+ 0·4	0·50	0·30	+ 0·20	0·89	1·31	— 0·42	0·41	Salem.
3	8	2	1	0	1	0	0	16	N 24° W	N 21° W	7·5	1·9	+5·6	72	— 7	86	— 2	·700	—·022	5·8	+2·4	9	+ 2·2	3·09	1·22	+ 1·87	4·65	8·87	— 4·22	1·14	Cuddalore.
28	0	2	0	0	0	0	0	1	N 18° E		2·1			7		91	+ 6	·643	+·023	5·4	+2·5	7	+ 5·3	3·92	1·38	+ 2·54	4·85	4·53	+ 0·32	1·39	Vellore.
3	11	5	1	0	0	1	0	10	N 9° W	N 16° E	5·8	4·2	+1·6	69	+11	88	+ 4	·745	+·036	5·6	+2·3	6	+ 4·5	8·05	1·14	+ 6·91	14·11	7·11	+ 7·00	2·46	Madras.
3	3	2	4	9	4	0	0	6	S 77° E	S 65° E				23	—31	82	+ 7	·535	—·063?	4·2	+2·1	4	+ 2·6	1·33	0·34	+ 0·99	1·54	1·33	+ 0·21	0·64	Cuddapah.
4	1	0	10	12	2	0	1	1	S 63° E	S 36° E	3·2	2·6	+0·6	62	+20	73	+ 9	·515	+·064	4·1	+1·7	1	+ 0·8	0·58	0·10	+ 0·48	0·58	0·22	+ 0·36	0·52	Bellary.
15	0	3	5	5	1	0	1	1	S 79° E	S 80° E	2·6			30	+26	76	+ 5	·526	+·036	3·2	+1·9	1	+ 0·6	0·46	0·15	+ 0·31	0·46	0·42	+ 0·04	0·36	Kurnool.
4	9	11	3	1	1	2	0	0	N 37° E	N 51° W	3·1	2·7	+0·4	56	+ 5	89	+ 2	·718	+·032	6·3	+2·0	5	+ 3·9	6·76	1·58	+ 5·18	12·19	4·58	+ 7·61	3·11	Nellore.
0	13	13	4	1	0	0	0	0	N 33° E	N 14° E	5·4	3·4	+2·0	82	+ 7	85	— 1	·634	—·029	4·4	+2·2	3	+ 2·8	0·90	0·21	+ 0·69	0·90	1·14	— 0·24	0·50	Masulipatam.
0	5	24	0	1	0	0	0	1	N 38° E	N 7° W	9·7	5·7	+4·0	89	+ 8	79	+ 2	·610	+·023	3·5	+1·0	2	+ 1·7	1·45	0·15	+ 1·30	2·02	1·12	+ 0·90	0·95	Cocanada.
6	9	12	4	0	0	0	0	0	N 35° E	N 78° W	5·1			69	+20	69	— 3	·523	—·050	3·4	+0·9	0	— 0·7	0·06	0·53	— 0·47	0·86	1·40	— 0·54	0·06	Waltair (Vizag.).
4	10	4	1	0	0	0	4	8	N 18° W		7·8			65		73		·516		2·2		0	— 1·3	0·06	0·23	— 0·17	0·36	1·72	— 1·36	0·06	Calingapatam.
0	16	1	0	0	0	0	0	14	N 19° W	N 21° W	6·7	6·1	+0·6	96	+15	76	— 4	·482	—·045	2·5	+1·8	1	+ 0·6	0·31	0·21	+ 0·10	0·39	1·05	— 0·66	0·31	Gopalpur.
																															Bay Islands.
1	15	14	1	0	0	0	0	0	N 24° E					80		65		·507		2·5		0		0	0·24	— 0·24	0	1·57	— 1·57	0	P. V. Fraser.
1	0	6	15	9	0	0	0	0	S 85° E	N 23° E	6·4	4·7	+1·7	82	+16	77	— 4	·767	—·022	4·7	+0·6	4	+ 2·3	3·05	1·62	+ 1·43	13·37	8·49	+ 4·88	0·82	Port Blair.
3	4	11	11	2	0	0	0	0	N 63° E		8·8			72		77	+ 3	·718	+·009	5·7	+0·8	2	+ 1·5	0·69	0·86	— 0·17	6·21	3·17	+ 3·04	0·52	Table Island.
																															Kashmir.
23	3	3	1	0	0	0	0	1	N 18° E		3·1			19		55		·155		2·3		3		1·49	4·58	— 3·09	5·01	6·87	— 0·86	0·95	Muzaffarabad.
5	1	0	0	7	8	1	2	7	S 19° W	S 26° E	3·0	2·3	+0·7	27	+ 9					9·8	+2·1	1	— 5·3	0·59	2·89	— 2·30	2·38	4·25	— 1·87	0·42	Srinagar.
																															Gulmarg.
31	0	0	0	0	0	0	0	0	Calm.		0			a						3·2	—2·9	4	— 4·2	0·82	2·98	— 2·16	4·30	4·64	— 0·34	0·25	Dras.
23	0	4	4	0	0	0	0	0	N 65° E	S 13° W	2·4	0·7	+1·7	23	—15					3·5	—3·2	0	— 1·1	0·02	0·38	— 0·36	0·04	0·55	— 0·51	0·02	Leh.
31	0	0	0	0	0	0	0	0	Calm.		0·1			a						4·1	—2·6	0	— 2·2	0	1·02	— 1·02	0·46	1·40	— 0·94	0	Skardu.
25	0	0	0	0	0	5	0	1	S 56° W		0·7			17		751		·157†		3·7	—3·6	0	— 0·7	0·03	0·25	— 0·22	0·11	0·36	— 0·25	0·03	Gilgit.

(a) Indeterminate.

* Mean of 9 days.
† „ „ 7 „

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-istern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman . .	4,614	25·533		25·502	25·623	3rd	25·451	22nd	39·7	36·1*	57·7		29·1		43·4		28·6	68·1	8th	22·1	30th
	Quetta	5,502	24·785	+·041	24·695	24·817	4th	24·636	31st	26·2	26·0†	51·5	+0·6	23·1	−5·6	37·3	−2·5	28·4	64·1	9th	14·3	1st
	Chaman	4,311	25·810	+·046	25·772	25·917	3rd	25·673	31st	36·1	37·4‡	53·3	+0·8	30·3	−5·3	41·8	−2·3	23·0	69·7	10th	20·5	27th
	Kalat	6,630	23·798		23·760	23·902	4th	23·719	16th	21·7	33·2§	51·4	+0·7	18·3		34·8		33·1	64·3	9th	7·5	1st
	Dalbandin . . .	*2,772*	27·297		27·260	27·407	27th	27·114	9th	34·0	36·5‖	60·7		29·7		45·2		31·0	75·1	8th	18·9	29th
	Pasni		30·153		30·113	30·239	24th	30·042	4th & 7th	55·7	51·6	74·5		49·3		61·9		25·2	80·6	14th	42·7	1st
	Panjgur		26·884		26·842	26·976	24th	26·801	7th	35·6	36·7¶	63·2		32·9		48·0		30·3	78·6	9th	22·4	1st
	Robat		27·011		26·969	27·168	27th	26·704	9th	39·2	36·9	61·9		30·1		46·0		31·8	72·6	9th	19·2	1st
	Seistan(c)		28·429			28·590	1st & 24th.	23·110	9th	32·1	36·3††	60·7		28·3		44·5		32·4	70·4	9th	18·9	1st
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar . . .	6,000	24·531	+·043	24·510	24·607	15th	24·461	13th	33·1	33·7‡‡	53·5	+3·8	27·8	−0·9	40·7	+1·5	25·7	61·2	6th	21·1	25th
	Cherat	*4,256*	25·818	+·050	25·786	25·904	3rd	25·742	25th	42·7	34·9§§	50·4	+1·0	37·1	−1·5	43·7	−0·3	13·3	58·4	8th	21·5	19th
	Drosh (c)		25·288			25·375	3rd, 15th & 28th.	25·175	13th & 17th, 18th	33·3	33·3¶	44·3	−4·5	31·1	+0·5	37·7	−2·0	13·2	51·9	31st	26·6	1st
	Murree	6,333	23·849	−·003	23·817	23·910	3rd	23·762	19th	39·1	33·2**	46·4	0	36·1	+1·7	41·3	+0·9	10·3	57·1	31st	28·6	24th
	Simla	7,232	23·130	+·035	23·092	23·193	14th	23·029	25th	38·5	33·4‖	45·9	+0·2	35·8	+0·7	40·9		10·1	55·1	6th	26·8	25th
	Chakrata . . .	7,072								41·9	35·1¶¶	51·4	+0·7	36·4	+0·5	43·9	+0·6	15·0	62·7	5th	30·5	23rd & 24th.
	Mukteswar . . .	7,592	22·869	+·024	22·823	22·940	8th	22·784	25th	40·2	34·5**	50·2	+0·4	34·8	−0·5	42·5	−0·1	15·4	59·5	31st	27·8	25th
	Darjiling . . .	7,432	22·966	+·005	22·921	23·037	8th & 10th.	22·851	25th	37·0	35·2¶¶	47·6	+1·0	34·0	−0·7	40·8	+0·1	13·6	53·0	31st	32·3	21st & 28th.
	Shillong	4,920	25·203	+·013	25·155	25·273	8th	25·106	25th	46·5	43·3	60·3	−0·3	37·9	−0·6	49·1	0·5	22·4	64·0	20th & 24th.	33·5	23rd
	Cherrapunji . . .	4,309	25·758	+·003	25·709	25·815	8th	25·683	25th	51·8	46·9	60·4	+1·0	45·4	−0·3	52·9	+0·3	15·0	63·7	15th	41·9	29th
	Netarhat		26·292		26·241	26·337	13th	26·236	6th	53·9	45·8	64·9		42·6		53·7		22·3	70·4	24th	36·0	27th
	Maymyo	3,546	26·513	+·013	26·458	26·583	8th	26·442	29th	48·8	43·0	68·8	−2·0	42·9	+4·2	55·9	+1·1	25·9	73·0	21st	32·6	11th
	Pachmarhi . . .	3,528	26·537	−·020	26·491	26·602	3rd	26·319	23rd	51·9	46·1	69·5	−2·2	43·5	−4·0	56·5	−3·1	26·4	74·0	23rd & 31st.	36·1	6th
	Mount Abu . . .	3,945	26·142	+·015	26·092	26·216	3rd	26·041	22nd	56·2	45·1	64·4	−1·5	49·3	−1·7	56·8	−1·6	15·1	69·0	7th & 9th.	41·4	26th
	Mercara	3,781	26·238	−·052	26·171	26·310	31st	26·176	25th	60·1	57·3	76·2	−1·6	56·3	−0·7	66·3	−1·1	19·9	80·2	26th	52·0	10th
	Ootacamund . . .	*7,327*	23·056	−·029	22·992	23·092	4, 5 & 31st.	23·016	18, 19 & 25th.	52·2	47·6	63·9	−1·0	42·5	−0·7	53·2	−0·9	21·4	68·5	1st	31·7	29th
	Kodaikanal . . .	7,688	22·820	−·045	22·755	22·865	4th	22·776	25th	51·2	46·2	61·3	−1·7	45·0	−2·1	53·1	−1·9	16·3	68·4	1st	37·2	29th
	Extra India.																					
	Singapore (a) . . .	10	29·858	−·102	29·789	29·926	12th	29·794	21st	75·9		81·0	−5·9	71·0	−2·0	76·0	−3·9	10·0	87·0	2nd & 3rd.	67·0	25th
	Penang (a) . . .	17	29·857	−·068	29·799	29·907	14th	29·788	3rd	78·6		85·7	−3·6	70·2	−3·1	77·9	−3·3	15·5	90·0	21st	68·0	26th
	Trincomalee . . .	99	29·843	−·057	29·872	29·930	31st	29·787	25th	75·1	72·9	81·0	−2·4	72·7	−1·6	76·8	−2·0	8·3	86·2	2nd	68·6	17th
	Colombo	24	29·912	−·046	29·862	29·966	31st	29·843	25th	71·3	69·9	84·1	−3·5	70·8	−1·4	77·4	−2·5	13·3	88·1	29th	66·9	19th
	Hambantota . . .	64	29·875		29·866	29·936	31st	29·820	23rd	71·9	70·7	82·0		71·1		76·5		10·9	85·1	22nd	69·3	1st
	Minicoy	7	29·964	−·021		30·037	31st	29·903	25th													
	Amini Divi . . .	*13*	29·947	−·052	29·888	30·024	31st	29·883	25th	80·9	74·0	87·7	+2·3	74·3	+0·1	81·0	+1·2	13·4	91·0	19th	68·3	11th & 12th
	Gyantse	13,110																				
	Pharijong . . .	14,400																				
	Gangtok	5,667	24·513	+·001	24·468	24·585	14th	24·453	7th	45·2	42·2	58·2	+0·7	40·5	+3·3	49·4	+4·5	17·7	64·7	31st	38·2	16th
	Gartok (c)	15,100																				

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 20 days.
† " " 5 "
‡ " " 15 "
§ " " 3 "
‖ " " 11 "
¶ " " 10 "
** " " 18 "
†† " " 7 "
‡‡ " " 8 "
§§ " " 17 "
¶¶ " " 29 "

—continued.

India, etc., in January, 1918—*continued.*

Wind direction. Number of winds from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st Jan. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
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	54	55
																														Baluchistan.
0	0	0	0	4	4	4	0	S 45° W		2·1			33		58*		·153*		0·3		1		0·25	0·82	−0·57	1·05	1·21	−0·16	0·25	Fort Sandeman.
0	0	0	2	2	1	0	0	S 10° E	N 13° W	2·5	2·1	+0·4	13	+ 8	77†		·182†		2·3	−1·5	1	−3·5	0·15	2·01	−1·86	1·17	2·93	−1·76	0·15	Quetta.
0	5	11	5	1	3	1	1	S 80° E	S 58° E	3·7	5·0	−1·3	46	−14	72‡		·182‡		2·3	−2·7	2	−1·8	0·37	1·53	−1·16	3·02	2·61	+0·41	0·26	Chaman.
0	0	0	0	0	1	0	0	S 45° W	S 30° W	2·4			3	−46	80§		·166§		1·6		1	−2·1	0·15	1·31	−1·16	0·53	2·35	−1·82	0·15	Kalat.
4	15	4	0	1	2	0	1	N 44° E		3·6			56		61‖		·159¶		1·8		0		0	0·58	−0·58	1·07	0·96	+0·11	0	Dalbandin.
7	2	1	0	0	0	6	14	N 36° W		5·2			72		74		·333		1·4		0		0·06	1·12	−1·06	0·53	1·83	−1·30	0·06	Pasni.
1	18	10	0	0	0	0	0	N 66° E		5·1			89		65¶		·166¶		2·2		0		0			0·41			0	Panjgur.
0	1	1	0	0	13	15	0	S 70° W		3·5			76		55**		·149**		1·5		1		0·12	0·62	−0·50	0·62	1·42	−0·80	0·12	Robat.
1	0	0	0	0	0	2	8	N 49° W		3·0			33		66††		·166††		1·1		0		0·03			0·23			0·02	Seistan.
																														Hill stations, excluding Kashmir and Baluchistan.
0	0	0	0	0	0	0	0	Calm		1·0			(a)		67‡‡		·151‡‡		1·1	−2·9	1	−3·4	0·11	2·26	−2·15	1·10	3·47	−2·37	0·11	Para Chinar.
19	1	0	0	0	0	1	7	N 12° W	N 12° W	9·9	9·8	+0·1	86	+16	43§§	−14	·107‖‖	−·039	0·3	−3·4	0	−3·9	0·05	2·52	−2·57	2·31	3·97	−1·63	0·03	Cherat.
0	1	1	0	0	0	0	0	N 66° E		2·0			7		73¶		·151¶		2·8	−1·4	1	−1·6	0·27	0·62	−0·65	2·12	1·93	+0·19	0·14	Drosh.
2	2	9	4	0	0	0	1	N 84° E	S 62° E	3·6	6·6	−3·0	43	− 6	48**	−14	·113**	−·023	2·3	−2·6	2	−4·0	1·10	3·99	−2·89	6·50	5·48	+1·02	0·60	Murree.
															52§				1·9	−2·9	4	−0·9	0·15	2·79	−1·84	1·47	4·00	−2·53	0·45	Simla.
4	14	4	0	0	1	0	0	N 45° E	N 34° E.	5·0	4·2	+0·8	59	+14	¶¶ 49 ***	−10	¶¶ ·128 ***	−·004	1·9	−2·0	4	−1·3	2·35	4·43	−2·08	3·95	5·74	−1·79	0·88	Chakrata.
0	3	0	2	1	1	8	1	S 18° E		4·9			1		55		·132		1·8	−2·0	2	−2·1	0·45	2·21	−1·76	1·41	2·99	−1·58	0·28	Mukteswar.
0	1	1	0	0	0	2	0	N 23° W	S 59° E	1·2	2·7	−1·5	2	−21	¶¶ 85	+ 4	¶¶ ·186	−·001	3·3	−0·8	0	−1·5	0·08	0·61	−0·53	0·08	0·89	−0·81	0·08	Parjiling.
0	0	3	4	1	1	0	1	S 49° E		1·5			20		78	+ 8	·247	+·029	1·7	+0·3	1	+ 0·3	0·13	0·37	−0·24	0·13	0·60	−0·4	0·11	Shillong.
2	8	10	1	2	3	3	0	N 76° E					37		70	− 2	·264	−·007	2·9	+1·0	0	−1·3	0·04	0·51	−0·50	0·04	0·96	−0·92	0·04	Cherrapunji.
3	1	1	0	0	4	3	11	N 52° W		3·3			55		53		·220		1·6		1		0·45			0·45			0·35	Netarhat.
	1	0	0	0	0	0	0	N 45° E		1·1			3		94	+ 6	·328	+·013	4·6	+2·8	0	−0·3	0	0·11	−0·11	0·12	0·75	−0·63	0	Maymyo.
0	5	4	6	3	4	0	1	S 55° E	S 3° E	2·6	2·6	0	33	+15	65	+ 4	·248	−·040	0·9	−1·0	0	−1·3	0	0·55	−0·55	0·27	1·06	−0·79	0	Pachmarhi.
3	1	1	0	1	2	1	2	N 38° W	N 2° W	2·3	3·8	−1·5	13	− 5	40	− 3	·178	−·018	1·7	−0·2	1	+0·3	0·12	0·28	−0·16	0·12	0·42	−0·30	0·12	Mount Abu.
0	13	13	0	0	0	0	0	N 69° E	N 74° E	3·5	3·6	−0·1	79	+ 5	84	+ 5	·426	−·006	4·6	+0·5	0	−3·3	0·06	0·17	−0·11	0·57	0·95	−0·38	0·04	Mercara.
0	0	10	9	5	0	0	0	S 55° E		2·2			62		69	+13	·272	+·045	4·4	+2·0	5	+3·2	2·10	1·43	+1·17	2·87	3·59	−0·72	0·79	Ootacamund.
3	5	8	6	2	0	3	4	N 72° E		9·1			33		71	+13	·265	+·029	3·9	+0·9	8	+3·6	0·08	2·43	+3·65	6·89	7·45	−0·56	2·48	Kodaikanal.
																														Extra India.
5	11	0	0	0	0	0	4	N 17° E					53						8·7	+3·7	17	+3·7	23·36	12·33	+11·23	34·29	23·47	+1·82	6·75	Singapore.
4	9	0	0	0	0	0	8	N 2° E					86								7	0	2·99	3·76	−0·77	6·93	9·86	−2·93	1·30	Penang.
3	8	7	1	1	5	5	1	N 45° E	N 30° E	5·5	5·6	−0·1	20	−45	90	+ 5	·781	−·019	7·5	+3·5	15	+8·0	13·39	5·58	+7·81	24·33	19·85	+4·48	2·40	Trincomalee.
3	9	0	0	0	0	0	0	N 23° E	N 37° E	3·4	6·3	−2·9	53	−28	93	+13	·708	−·065	6·5	+2·9	6	+1·2	4·25	3·50	+0·75	8·65	9·05	−0·40	1·46	Colombo.
4	10	0	0	0	0	0	6	N 6° E		7·5			82		92		·731		5·3		9		4·81	3·53	+1·58	13·05	8·10	+4·16	1·20	Hambantota.
4	7	5	3	0	0	0	2	N 31° E	N 42° E	3·2	4·7	−1·5	68	+ 3					3·3	+0·1	6	+3·2	5·54	1·70	+3·84	8·62	5·29	+3·33	1·66	Minicoy.
8	8	1	1	0	1	0	2	N 12° E		5·7			81		71	− 2	·746	−·038	4·4	+0·4	5	+4·0	5·52	0·46	+5·06	5·61	1·59	+4·02	2·92	Amini Divi.
																								0·01			0·01			Gyantse.
																								0·04			0·09			Pharijong.
	0	0	0	0	0	0	0	N		0·8			3		79	+ 1	·237	+·002	1·5	−1·6	1	−1·9	0·69	0·91	−0·22	0·76	2·03	−1·27	0·57	Gangtok.
																														Garfok.

(a) Indeterminate.

* Mean of 20 days.
† „ „ 5 „
‡ „ „ 15 „
§ „ „ 3 „
‖ „ „ 11 „
¶ „ „ 10 „

** Mean of 18 days.
†† „ „ 7 „
‡‡ „ „ 8 „
§§ „ „ 16 „
‖‖ „ „ 17 „
¶¶ „ „ 29 „
*** „ „ 12 „

Tab

(2) Abstract of observations taken at 8 hrs. at 2

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches. Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Temperature of air. Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Kashgar (c)	4,255	25·754	+·024		25·940	6th	25·430	31st	15·5	?	34·1	+0·7	12·5	+0·7	23·3	+0·7	21·6	41·4	31st	8·3	5 days
	Kabul (c)	...																				
	Meshed	3,104								28·6	33·4*	46·4	+2·8	25·3	+3·0	35·9	+2·9	21·1	70·4	8th	11·0	1st
	Jask	13	30·151	+·062	30·118	30·260	24th	30·013	7th	61·6	56·5	74·2	+0·4	57·7	−2·9	65·9	−1·3	16·5	77·5	7th	51·9	1st
	Muscat	20	30·148	+·034	30·117	30·232	3rd	30·036	7th	65·4	58·2	76·7	+3·2	63·6	−3·5	70·2	−0·1	13·1	80·1	7th	60·6	20th
	Bushire (g)	14	30·147	+·039	30·124	30·273	1st	29·997	29th	53·6	50·6	63·3	−1·1	51·4	0	57·4	−0·5	11·9	77·3	8th	45·3	10th
	Busrah	25	30·215	+·015	30·211	30·356	9th	29·954	7th	47·2	44·8	64·3	+4·4	41·8	−1·9	53·0	+1·3	22·5	73·9	8th	32·6	19th
	Kerman (c)																					
	Ispahan (c)	*5,817*	24·293	+·053		24·480	21th	24·140	8th & 30th.	26·9		48·6	+1·3	24·6	+0·8	36·6	+1·1	24·0	58·9	6th	19·2	2nd
	Tehran (d)	*4,002*	(c) 25·828	−·072		26·100	20th	25·630	8th	34·0	36·6†	48·7	+5·1	30·4	+4·3	39·6	+4·7	18·3	59·5	7th	22·0	1st
	Baghdad	127	30·061	+·012		30·227	9th	29·802	5th	43·1	41·3	59·7	+0·2	40·2	+2·0	49·9	+1·1	19·5	69·9	6th	33·9	19th
	Beirut (a)																					
	Aden	94	29·997	+·013	30·025	30·049	24th	29·922	8th	71·8	67·0	77·6	−2·5	69·4	−3·1	73·5	−2·8	8·2	80·2	10th	65·9	19th 30th.
	Zanzibar	72	29·912	−·004	29·910	29·962	5th	29·844	14th	79·5	74·7	84·4	−1·7	77·5	−1·9	81·0	−1·8	6·9	88·7	11th	70·9	13th.

N. B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(c) Aneroid

(d)=7 hrs. observations.

* Mean of 7 days.

† " 10 "

(g) Mean of 27 days.

(h) 8½ hrs. observations.

B—*concluded.*

stations in India, etc., in January, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917, to 31st January, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Extra India —*concld.*
30	0	0	0	0	0	0	0	1	N 45° W	N 56° W	0·2	0·4	−0·2	3	0	P		P		3·7	−1·4	2	+1·1	0·23	0·19	+0·04	0·28	0·28	0	0·13	Kashgar.
										N 82° W															1·21			1·64			Kabul.
29	1	0	0	0	1	0	0	0	Calm.		0·7			(a)		89*		·180*		4·3	−0·3	4	+2·1	1·83	0·71	+1·12	2·34	1·43	+0·91	0·84	Meshed.
3	11	9	2	0	0	0	0	6	N 11° E	N 18° E	6·9	8·8	−1·9	72	+ 1	72	0	·399	−·009	1·6	−2·1	0	−2·2	0·05	0·89	−0·84	2·46	2·03	+0·43	0·05	Jask.
6	0	1	3	0	3	0	5	13	N 57° W	S 59° W	3·4	3·5	−0·1	40	+ 7	62	− 6	·381	−·104	2·2	−0·6	1	−0·8	0·16	1·08	−0·92	1·12	1·69	−0·57	0·16	Muscat.
13	0	3	5	0	0	0	0	6	N 25° E	N 58° E	5·1†	5·8	−0·7	26	−28	80	− 5	·334	−·013	3·5	−0·7	3	−1·2	1·39	2·64	−1·25	3·82	5·70	−1·88	0·58	Bushire.
1	1	2	2	1	1	1	5	16	2	S 89° W	5·1			58		81		·275		3·5		4	+1·4	1·56	1·22	+0·34	2·98	2·40	+0·58	0·57	Busrah.
																															Kerman.
26	0	0	0	0	0	3	1	1	S 76° W	S 79° W	1·1	2·3	−1·2	13	−19	81‡		·169‡		2·0	−1·1	0	−1·8	0·05	0·67	−0·62	1·53	1·49	+0·04	0·04	Ispahan.
5	7	18	0	0	0	0	1	0	N 31° E	N 16° E	3·0	2·1	+0·9	74	+28	76‖		·186‖		3·7	−0·4	0	−4·0	0·13	1·63	−1·50	0·55	2·92	−2·37	0·05	Tehran.
11	2	0	5	2	2	3	2	4	S 36° W	N 8° W	4·1	2·3	+1·8	3	−22	85	+10	·240	+·035	3·1	−0·6	4	+1·6	0·91	1·14	−0·23	2·72	2·32	+0·40	0·30	Baghdad.
																															Beirut.
4	10	15	2	0	0	0	0	0	N 32° E	N 80° E	10·5	9·9	+0·6	79	+ 5	77	+ 1	·596	−·055	4·5	−1·4	0	−1·0	0·16	0·36	−0·20	0·23	0·47	−0·24	0·08	Aden.
1	14	16	0	0	0	0	0	0	N 24° E	N 28° E	7·1	5·7	+1·4	90	+13	79	− 2	·789	−·086	7·5	+0·9	3	−2·4	2·33	3·08	−0·75	2·77	8·55	−5·78	0·84	Zanzibar.

(a) Indeterminate.

* Mean of 7 days.
† „ 26 „
‡ „ 5 „
‖ „ 10 „

Table C.—Abstract of observations taken at 8 hrs. at 70 fourth and fifth class stations in India, etc., in January, 1918.

Table

Abstract of observations taken at 8 hrs. at 70 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	49·6	47·9	74·5	+1·7	45·5	+0·6	60·0	+1·1	29·0	79·0	20th	40·2	15th & 17th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	60·8	57·2	75·2	+0·4	44·9	−3·0	60·1	−1·3	30·3	80·0	24th	38·4	18th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	51·9	51·5	79·8	+1·9	45·3	−4·0	62·5	−1·1	34·5	84·1	9th	41·1	29th, 30th & 31st	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	48·1	47·0	75·6	+11·5	44·2	−0·9	59·9	+5·3	31·4	81·1	20th	38·7	17th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	49·7	48·3	74·0	+2·5	42·8	−2·6	58·4	−0·1	31·2	79·0	24th	38·4	15th & 22nd	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	51·6	50·6	72·5	+0·4	44·0	...	58·3	...	28·5	75·0	24th	39·2	17th & 18th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	53·9	53·0	74·9	−2·4	45·9	−4·8	60·4	−3·6	29·0	83·0	16th	42·2	13th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	51·1	50·1	73·1	+0·7	49·2	0	61·1	+0·3	23·9	76·3	24th	44·0	15th	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	53·6	52·2	74·8	...	45·5	...	60·2	...	29·3	77·1	24th	40·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Messa	55·3	49·2	78·5	−0·8	43·3	−1·3	60·9	−1·1	35·2	80·1	30th	39·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	48·3	47·4	75·2	+0·8	42·8	−3·4	59·0	−1·3	32·4	77·9	1st	36·5	4 days	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	58·6	54·9	79·0	+1·3	49·5	−3·4	64·3	−1·1	29·5	81·3	12th	46·5	15th & 28th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	59·7	55·5	75·9	−1·4	47·9	−2·4	61·9	−1·9	28·0	81·1	25th	42·1	5th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	53·8	51·6	77·5	−1·7	52·4	+1·4	64·9	−0·1	25·1	81·0	25th	46·5	30th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	48·4	47·2	81·1	+0·4	41·1	−2·8	61·1	−1·2	40·0	88·9	11th	37·8	4 days	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	59·4	54·5	75·6	+0·5	45·3	−0·3	60·5	+0·1	30·3	80·1	22nd	41·0	17th & 18th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	64·3	56·7	75·5	+1·2	49·4	−2·4	62·5	−0·6	26·1	79·1	12th	41·0	26th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
9	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.

nd fifth class stations in India, etc., in January, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
ean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st January 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	87	− 7	·312	−·051	...	...	0	−2·8	0	0·96	−0·96	0·16	1·43	−1·27	0	Bishnath.
...	...	...	...	...	79	−12	·423	+·069	...	...	0	−1·8	0·08	0·72	−0·64	0·08	0·95	−0·87	0·08	Borjuli.
...	...	...	...	...	98	+ 4	·379	−·037	...	...	2	−0·6	0·23	1·38	−1·15	0·23	1·84	−1·61	0·13	Chandkhira.
...	...	...	...	...	91	− 4	·306	−·045	...	...	4	−0·2	0·68	1·62	−0·94	0·84	2·15	−1·31	0·28	Doom Dooma.
...	...	...	...	...	90	− 6	·321	−·022	...	...	2	−2·5	0·77	1·41	−0·64	0·81	1·98	−1·17	0·46	Dikom.
...	...	...	...	...	93	+ 1	·357	−·034	...	...	0	−3·5	0	1·00	−1·00	0	1·54	−1·54	0	Golaghat.
...	...	...	...	...	94	0	·390	−·018	...	...	1	−0·8	0·15	1·54	−1·39	0·15	2·06	−1·91	0·15	Hailakandi.
...	...	...	...	...	93	− 2	·351	−·048	...	...	0	−2·5	0·07	1·14	−1·07	0·27	1·80	−1·53	0·07	Jorehat.
...	...	...	...	...	90	...	·371	...	...	...	0	−0·9	0·03	0·47	−0·44	0·08	...	...	0·03	Lumding.
...	...	...	...	...	61	−17	·271	−·105	...	...	0	−1·4	0·05	0·65	−0·60	0·05	1·19	−1·14	0·05	Messa.
...	...	...	...	...	93	−2	·321	−·011	...	...	0	−1·5	0	0·39	−0·39	0	0·82	−0·82	0	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	1	0	0·28	0·32	−0·04	0·28	0·58	−0·30	0·28	Comilla.
...	...	...	...	...	78	− 9	·383	−·082	...	...	0	−1·3	0·06	0·29	−0·23	0·06	0·73	−0·67	0·06	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	−1·1	0·02	0·49	−0·47	0·02	0·63	−0·61	0·02	Faridpur.
...	...	...	...	...	75	−11	·386	−·020	...	...	0	−1·3	0·06	0·25	−0·19	0·06	0·58	−0·52	0·03	Goalundo.
...	...	...	...	...	75	− 6	·373	−·037	...	...	0	−1·2	0·02	0·32	−0·30	0·02	0·59	−0·57	0 02	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	−0·9	0	0·35	−0·35	0	0·47	−0·47	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	−1·0	0	0·25	−0·35	0	0·42	−0·42	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·06	0·59	−0·53	0·06	0·65	−0·59	0·03	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	−1·1	0·06	0·38	−0·32	0·06	0·43	−0·37	0·04	Rangpur.
...	...	...	...	...	...	...	...	...	...	...	0	−1·0	0	0·49	−0·49	0	0·70	−0·70	0	Dam Dim.
...	...	...	...	...	91	− 5	·310	−·019	...	...	0	−1·3	0·08	0·40	−0·32	0·08	0·78	−0·70	0·08	Kalchini.
...	...	...	...	...	70	−10	·263	−·032	...	...	0	−1·5	0	0·62	−0·62	0	0·99	−0·99	0	Nagrakata.
...	...	...	...	...	61	−20	·362	−·013	...	...	0	−0·6	0	0·21	−0·21	0	0·34	−0·34	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·01	0·49	−0·48	0·01	0·60	−0·59	0·01	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0·05	0·43	−0·38	0·05	0·52	−0·47	0 05	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0·17	0·48	−0·31	0·17	0·60	−0·43	0·07	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	2	+0·4	0·45	0·69	−0·24	0·49	0·92	−0·43	0·25	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·11	0·52	−0·41	0·11	0·62	−0·51	0·08	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0	0·57	−0·57	0	0·64	−0·64	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0	0·52	−0·52	0	0·68	−0·68	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−1·4	0	0·60	−0·60	0·01	0·73	−0·72	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0·05	0·65	−0·60	0·15	0·82	−0·67	0·05	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−1·4	0	0·58	−0·58	0·05	0·83	−0·78	0	Debri.

Tabl

Abstract of observations taken at 8 hrs. at 70 four

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed month.	Date.	Lowest temperature observed month.	Date.	Number of winds from									Resultant direction.	
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	2
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	XII.—Central Provinces.																								
23	Chhindwara	51·8	46·6	76·9	...	46·7	...	61·8	...	30·2	80·2	30th & 31st.	33·7	6th	30	1	0	0	0	0	0	0	0	N	
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
32	Anantapur	69·5	67·1	84·2	...	63·8	...	74·0	...	20·4	90·6	21st	54·9	10th	...	...	...	...	...	...	...	...	...	...	
33	Guntur	70·2	67·6	84·2	...	65·7	...	75·0	...	18·5	89·2	3rd	59·0	9th & 10th.	...	...	...	...	...	...	...	...	...	...	
	Koraput	57·2	54·5	75·4	...	51·2	...	63·3	...	24·2	82·5	26th	38·8	31st	...	...	...	...	...	...	...	...	...	...	
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kashmir.																								
13	Jammu	47·3	44·0	65·2	...	45·0	...	55·1	...	20·2	72·3	31st	41·3	4th	0	14	16	0	0	0	1	0	0	N 24° E	
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kargil	0·5	P	17·5	...	−15·5	...	1·0	...	33·0	28·2	16th	−22·5	27th	15	0	0	1	11	3	0	0	1	S 39° E	
	Baluchistan.																								
15	Harnai	...	...	...	...	...	—	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Hill stations, exclusive of Kashmir.																								
	Panjhatta	58·9	52·3	74·3	+1·0	53·3	+1·2	63·8	+1·1	21·0	78·1	11th & 12th	48·2	26th	...	...	...	...	...	...	...	...	...	...	
	Kurseong	51·5	50·7	57·2	+0·9	45·7	+0·9	51·5	+0·9	11·5	61·8	17th	43·5	29th	...	...	...	...	...	...	...	...	...	...	
	Guatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dharampur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Poo	...	...	42·5	+2·4	23·7	+0·9	33·1	+1·7	18·8	48·8	1st & 12th	19·0	27th	9	0	0	3	0	4	7	4	4	S 56° W	
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Pishin	...	...	52·6	+1·4	20·2	−4·1	36·4	−1·3	32·4	65·3	10th	15·0	28th	...	...	...	...	...	...	...	...	...	...	

* Mean of 30 days.

—continued.

nd fifth class stations in India, etc., in January, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st January, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	2	—0·3	0·28	1·26	—0·98	0·67	1·70	— 1·03	0·13	Meerut.
...	...	...	...	...	...	...	...	...	...	...	1	—2·8	0·54	2·35	—·181	1·54	3·16	— 1·62	0·38	Debra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	— 0·3	0·10	0·13	— 0·03	0·10	0·23	—0·13	0·05	Udaipur.
																				XII.—Central Provinces.
5	...	...	3	...	66	...	·256	...	2·6	...	0	...	0·03	0·52	—0·49	0·03	1·14	—1·11	0·03	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	—0·2	0	0·09	—0·09	0	0·39	—0·39	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	8	+5·8	5·28	1·13	+4·15	7·32	5·39	+ 1·93	1·28	Tinnevelly.
...	...	...	...	...	88	...	·636	...	4·8	...	0	—0·1	0·13	0·03	+0·10	0·13	0·30	— 0·17	0·07	Anantapur.
...	...	...	...	...	87	...	·643	...	1·0	...	2	+1·6	1·46	0·28	+1·18	1·64	0·28	+ 1·36	0·82	Guntur.
...	...	...	...	...	84	...	·399	...	...	...	2	...	1·01	...	...	1·01	...	...	0·60	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	7	+2·5	12·55	4·43	+8·12	26·74	11·99	+14·75	2·45	Car Nicobar.
																				Kashmir.
...	...	90	...	76	...	·251	...	2·6	...	2	—2·2	0·46	3·26	—2·80	1·19	3·93	— 2·74	0·27	Jammu.
...	...	...	...	...	...	...	...	...	...	4	—8·2	1·85	11·53	—9·68	9·02	17·36	— 8·34	0·70	Sonamarg.
...	...	42	...	...	...	...	...	3·4	...	0	—3·9	0·09	1·99	—1·90	0·09*	2·78	— 2·69	0·05	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	—2·3	0·05	1·15	—1·10	0·47	1·83	— 1·36	0·05	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	62	— 7	·306	—·032	...	...	0	—0·8	0	0·52	—0·52	0	0·99	— 0·99	0	Panighatta.
...	...	...	...	...	95	+19	·361	+·114	...	...	0	—1·5	0	0·51	—0·51	0	1·07	— 1·07	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	2	...	2·20	1·72	+0·48	2·20	3·12	— 0·92	1·20	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	3	...	0·77	0·45	+0·32	0·86	1·05	— 0·19	0·36	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·28	...	...	2·15	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	3	...	1·81	...	...	3·15	...	...	0·60	Dharanpur.
...	...	...	...	...	...	...	...	...	...	...	4	—0·3	1·76	2·81	—1·05	3·11	3·83	— 0·72	0·78	Mussooree.
...	...	38	...	...	...	...	...	...	1·8	—3·5	2	—3·3	0·40	2·18	—1·78	0·89	2·95	— 2·06	0·18	Poo.
...	...	...	...	...	...	...	...	...	...	...	3	—2·3	0·53	2·95	—2·42	0·91	4·80	— 3·89	0·22	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Balloh.
...	...	...	...	...	...	...	...	...	0·9	...	1	—2·6	0·34	1·88	—1·54	2·46	3·13	— 0·67	0·28	Pishin.

* Rainfall for December 1917, wanting.

Tabl

Abstract of observations taken at 8 hrs. at 70 four

Number of sub-division.	Station.	Temperature of air.													Wind direction.											
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from										Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																									
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Chumbi	22·3	...	47·2	...	17·7*	...	3·3*	...	29·5	58·0	2nd	12·4	6th	...	...	...	...	...	...	...	...	...	...	...	
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Abadan	54·2	50·0	63·5	...	45·4	...	54·5	...	18·1	70·0	7th	37·0	9th & 19th	0	4	0	0	0	6	5	3	13	N 77° W.		
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Amarah	45·1	43·7	60·8	...	41·3	...	51·1	...	19·5	69·5	...	35·6	...	...	...	...	...	...	...	...	...	...	...	...	
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Fao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kurna	45·7	44·2	63·8	...	38·4	...	51·1	...	25·4	71·0	8th	26·5	19th	...	...	...	...	...	...	...	...	...	...	...	
	Mohammerah	48·0	46·4	63·3	...	44·9	...	54·1	...	18·4	70·6	...	33·0	...	...	...	...	...	...	...	...	...	...	...	...	
	Nasiriyah	43·9	41·2	62·7	...	39·1	...	50·9	...	23·6	75·7	...	32·0	...	...	...	...	...	...	...	...	...	...	...	...	
	Samarrah	40·5	39·3	58·8	...	38·6	...	48·7	...	20·2	66·5	...	30·8	...	...	...	...	...	...	...	...	...	...	...	...	
	Ramudie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

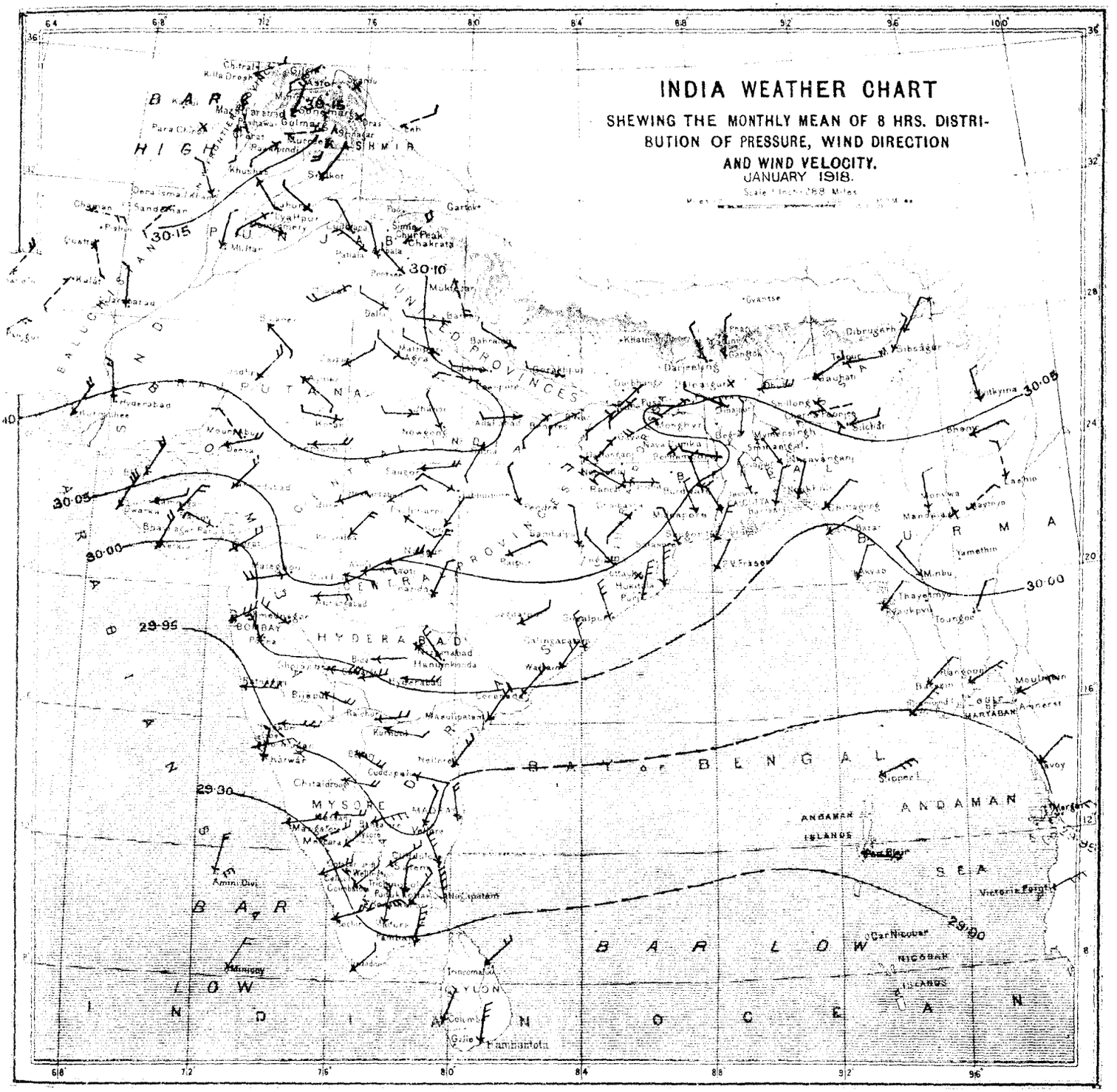
* Mean of 28 days.

C—*concluded.*

and fifth class stations in India, etc., in January, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917, to 31st January, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	5	...	1·58	...	...	1·58*	...	...	0·59	Ahwaz.
...	...	...	...	...	...	...	...	...	0	...	1	...	0·55	0·37	+0·18	0·55	0·48	+0·07	0·55	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	5	−0·4	1·84	2·74	−0·90	8·24	9·62	−1·38	0·58	Pemba.
...	...	...	53	...	75	...	·307	...	...	...	4	...	1·03	...	...	3·25	...	...	0·47	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
6·2	...	...	...	...	90	...	·270	...	5·0	...	8	...	1·26	...	...	...	...	...	0·56	Amarah.
...	...	...	...	...	...	...	...	...	...	...	...	...	5·43	...	...	...	...	...	...	Shushtar.
...	...	...	...	...	...	...	...	...	...	...	4	...	1·12	...	...	...	...	...	...	Fao.
4·5	...	...	...	...	89	...	·270	...	2·6	...	3	...	0·85	...	...	...	...	...	0·43	Kurna.
3·0	...	...	...	...	88	...	·290	...	2·6	...	7	...	1·10	...	...	...	...	...	0·45	Mohammerah.
...	...	...	...	...	78	...	·219	...	2·8	...	8	...	0·77	...	...	...	...	...	0·19	Nasiriyah.
...	...	...	...	...	90	...	·250	...	4·5	...	...	...	2·15	...	...	...	...	...	0·58	Samarrah.
...	...	...	...	...	...	...	...	...	...	...	4	...	0·38	...		...	...	...	...	Ramudie.
...	...	...	...	...	...	...	...	...	...	...	6	...	1·84	...	...	...	...	...	...	Kut.

* Rainfall for December 1917, wanting.



The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5	,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10	,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20	,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20	,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

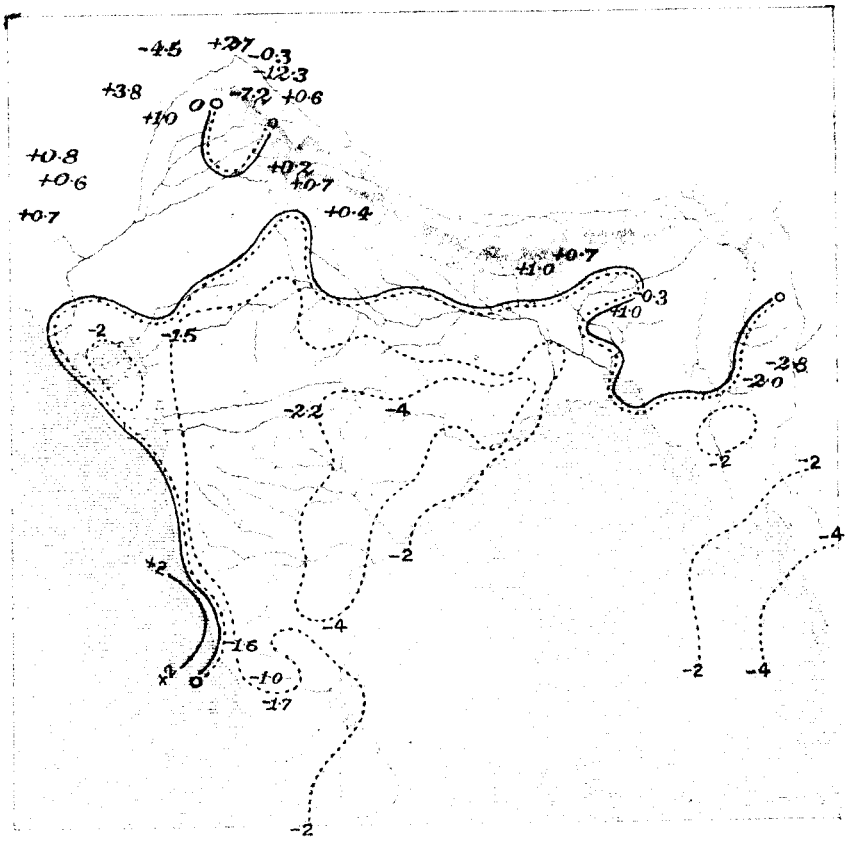


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

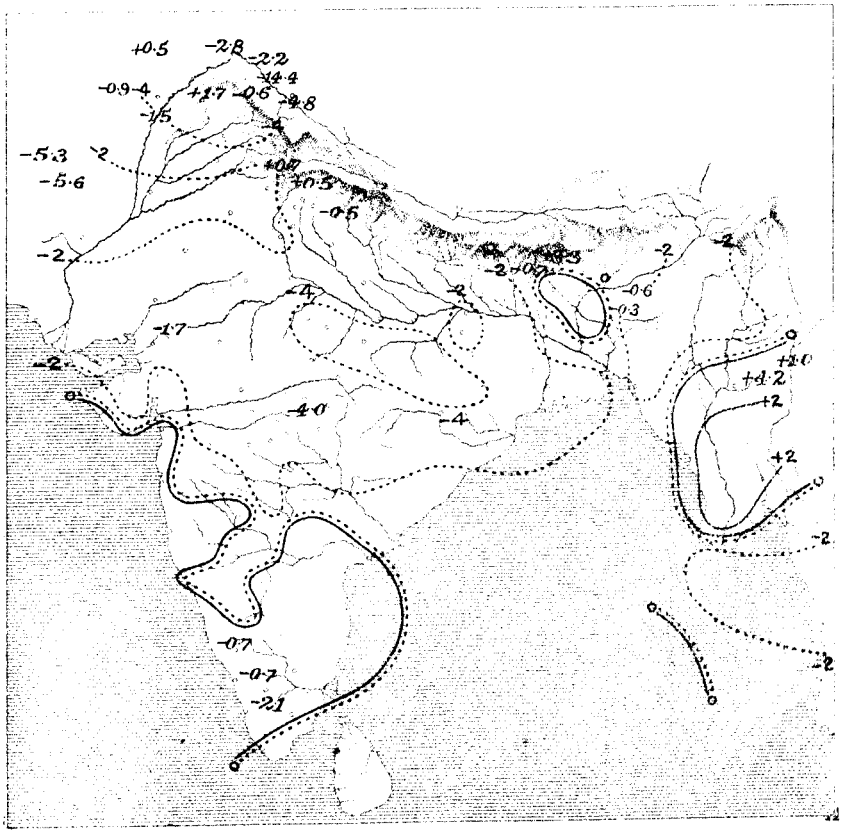


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

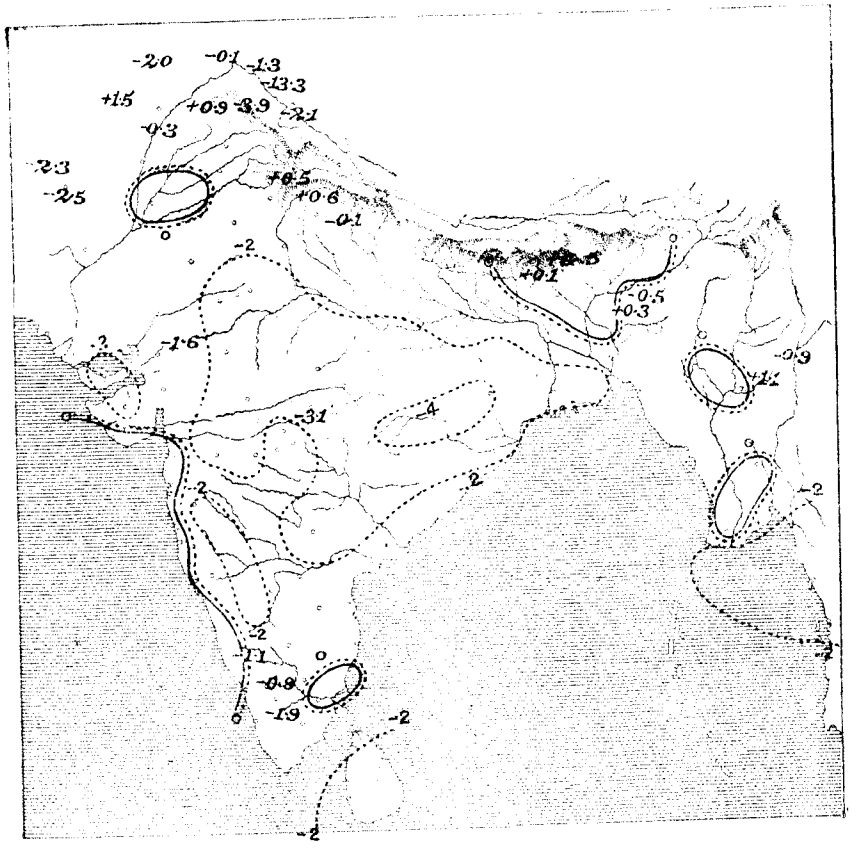


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

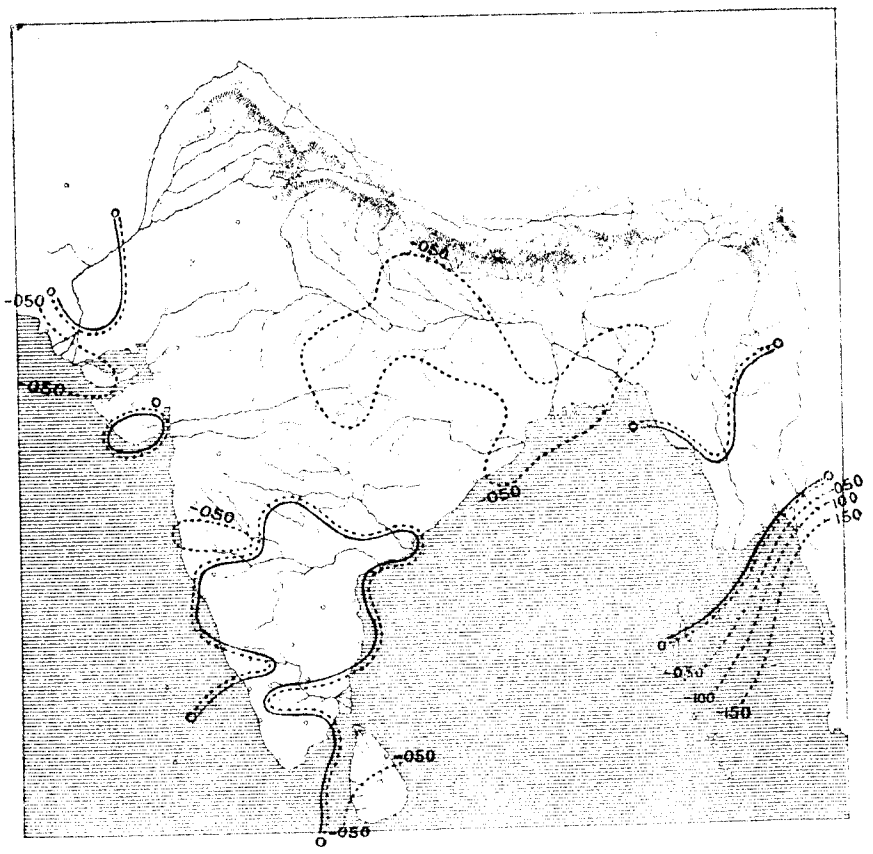


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

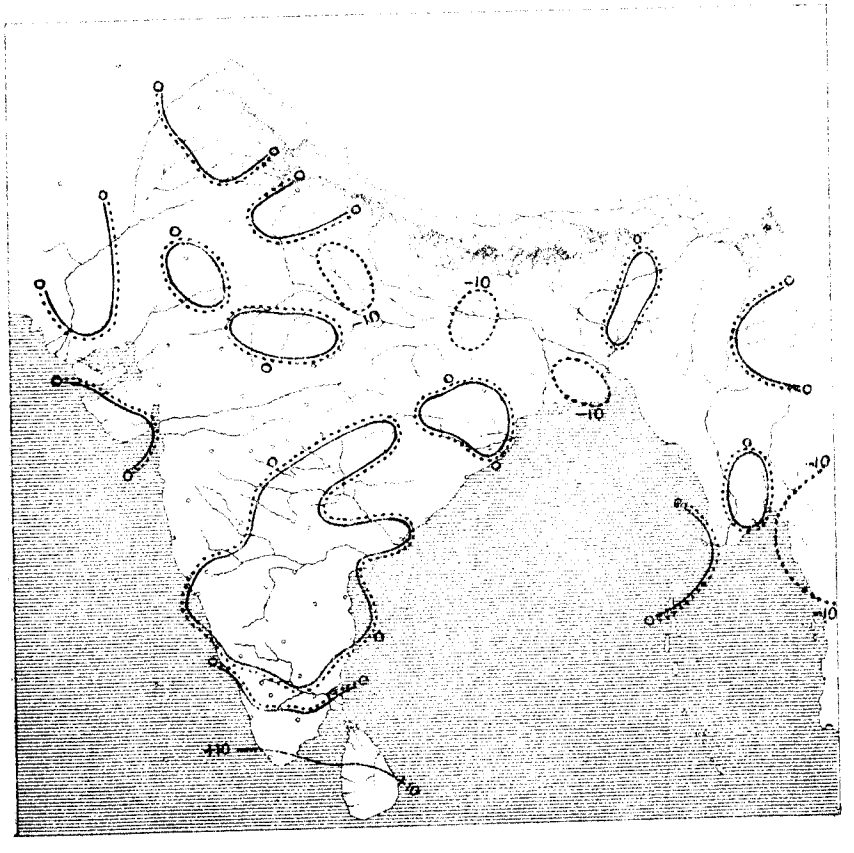


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

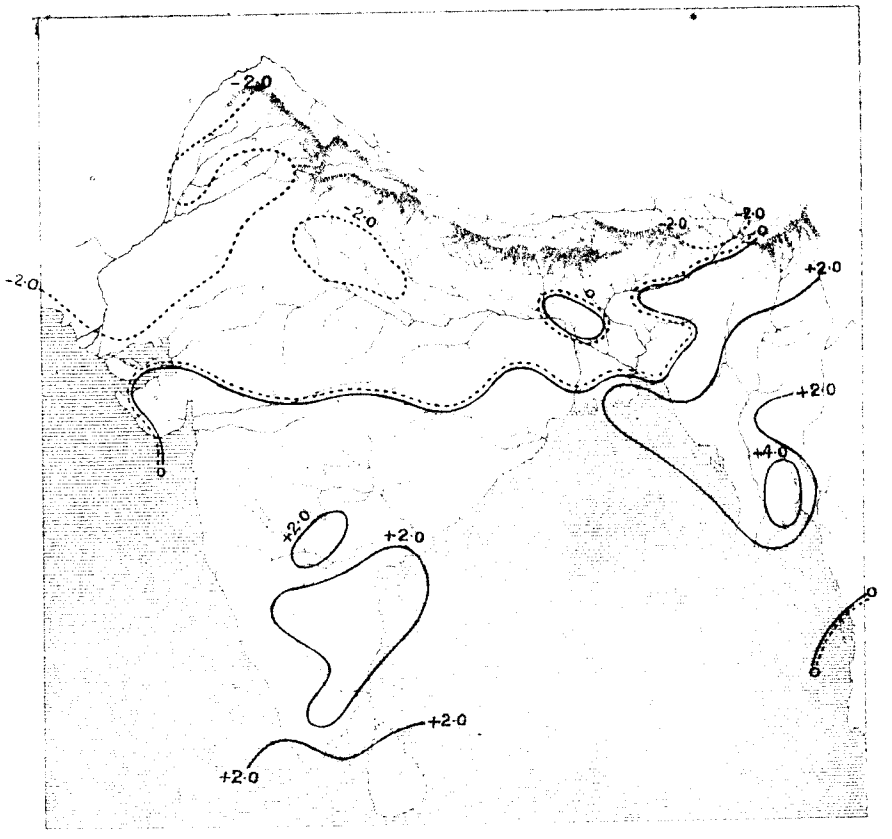
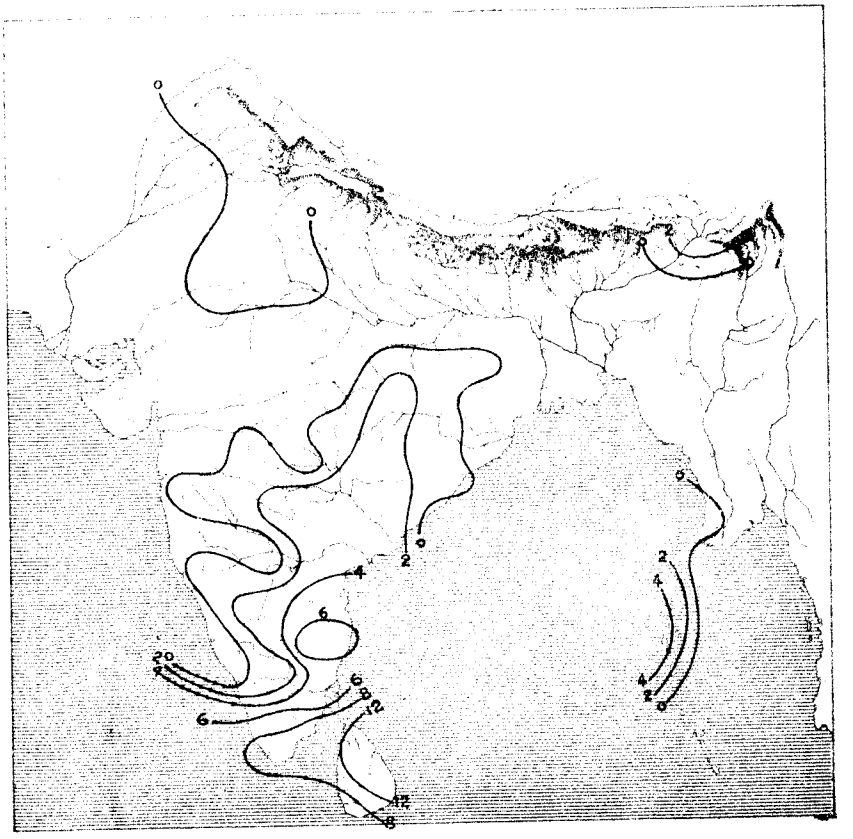
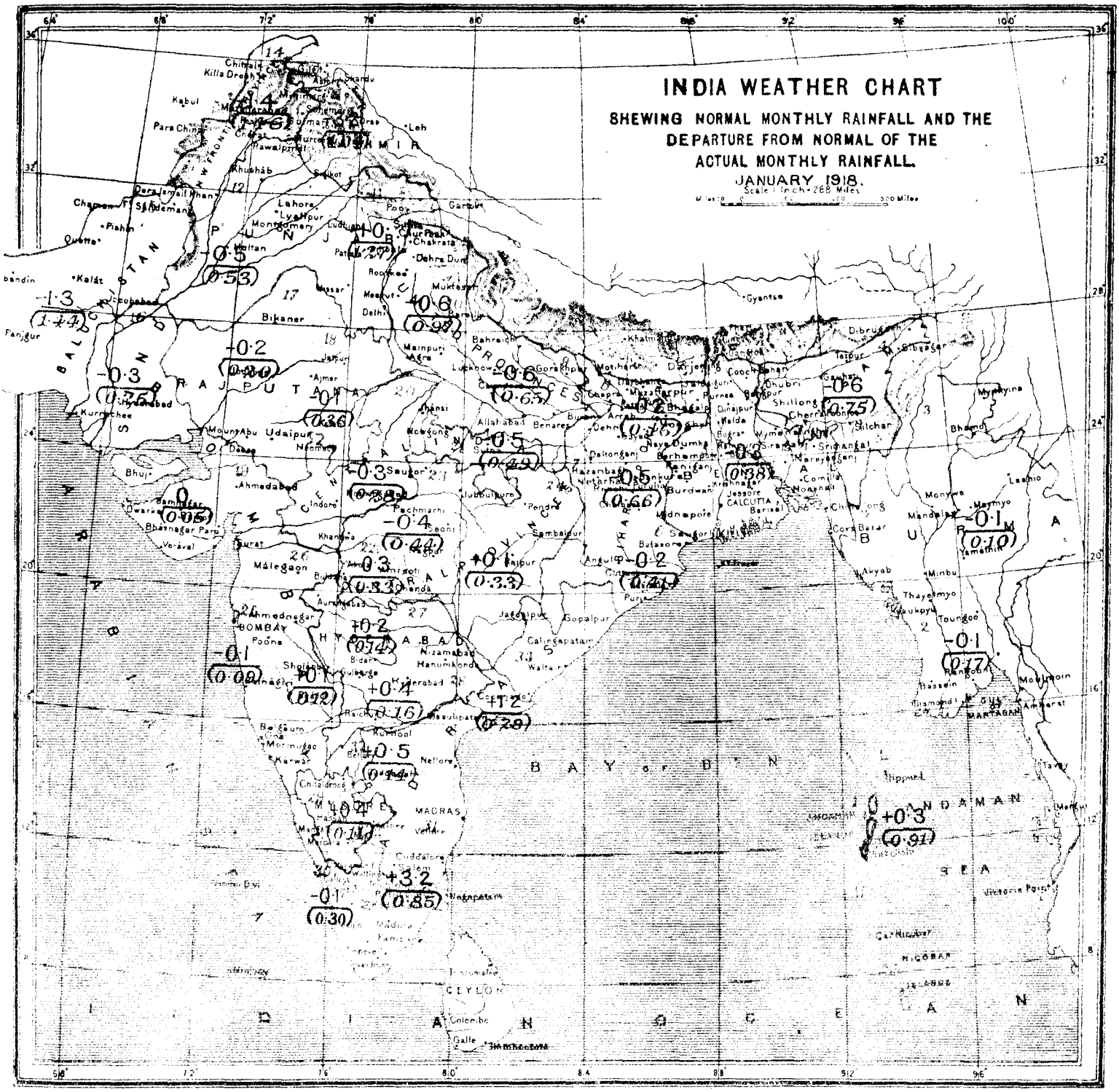


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA

CALCUTTA, FEBRUARY, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of February, 1918 is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments, have been utilized.

The brief notes on solar magnetic and seismic disturbances are supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The abnormally dry weather which had prevailed in January over northern and central India persisted through February. The rainfall associated with the usual western disturbances was light and occurred almost entirely in north Baluchistan, the North-West Frontier Province and Kashmir. The only occasion in which rain fell in the Peninsula was between the 19th and 22nd in connection with a slight disturbance in the south of the Bay.

The total rainfall of the month was below normal over the whole country, the defect being greatest in actual amount in Kashmir. Taking the plains of India as a whole there was a deficiency of 85 per cent, which is the largest recorded in February since 1875.

Humidity and cloud were either normal or in defect over nearly the whole of India, while in Burma cloud amount was in excess. Temperature was above normal in northwest India and the adjacent parts of Central India and of the United Provinces, but was below it in Madras, Mysore and the Bay Islands.

Barometric pressure at the level of the plains was ·033" in excess.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was favourable for solar observations. Complete prominence records were secured on 24 days and partial records on the remaining 4 days.

Sunspots.—19 new groups were recorded. The daily average number was 4·4 and the average life of a spot was 6·6 days. The latitude distribution of the spots was as follows :—

TABLE 1.

—	1°-10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	3	7	1	13°·5	3° & 26°
South . . .	1	6	1	15°·5	9° & 21°

Prominences.—79 large and 5 metallic prominences were recorded. The tallest prominence, photographed on the 1st, was only 150″ high.

Magnetic disturbances.—"Moderate" magnetic disturbances were recorded on the 5th, 6th, 10th to 16th, 23rd, 24th, and 28th.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°\ 28'\ 00''$; $h = 2343$ m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	€	$\frac{r}{T_0^2}$
AN:				
AE:	9·76	17·4	1	2·4
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Feb. 4th	e P	18 11 30	...	...	...	...	...	
	L	...	...	...	...	...	...	
	M	18 14 06	...	...	90	...	...	
	F	18 31 18	...	...	...	...	...	
„ 7th	e P	5 32 06	...	...	...	...	...	
	i L	5 48 18	...	...	...	...	...	
	M	5 54 42	...	...	200	...	...	
	F	6 34 36	...	...	...	...	...	
„ 13th	e P	2 43 36	...	...	...	...	...	
	i L	2 48 30	...	...	...	...	...	
	M	2 49 36	...	...	220	...	...	
	F	3 32 18	...	...	...	...	...	
„ 13th	e P	6 14 36	...	...	...	...	...	
	i L	6 33 06	...	...	...	...	...	
	M	6 37 12	...	...	210	...	...	
	F	8 09 30	...	...	...	...	...	
„ 13th	e P	20 50 12	...	...	...	...	...	Widening of line.
	F	21 00 36	...	...	...	...	...	
„ 19th	e P	16 45 24	...	...	...	...	...	Widening of line.
	F	17 46 54	...	...	...	...	...	

S. SITARAMAYYA,

Officiating Assistant Director.

BOMBAY OBSERVATORY.

4. During the month of February, 1918, the traces showed 10 calm days, and 18 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 8th, 18th, 20th and 22nd.

The following table represents the magnetic character of each day during the month.

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	C
2	S	10	S	18	C	26	C
3	C	11	S	19	C	27	C
4	C	12	S	20	C	28	S
5	S	13	S	21	S		
6	S	14	S	22	C		
7	S	15	S	23	S		
8	C	16	S	24	S		

C=calm; S=small; M=moderate; G=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows:—

Easterly declination	0° 29′ 54″.
Horizontal force	0·36886 C.G.S. unit.
Vertical force	0·16942 C.G.S. „
Inclination	24° 40′·2.
Horizontal force range	0·00060 C.G.S. unit.
Horizontal force summed range	0·00367 C.G.S. „
Declination range	1′·6.
Declination summed range	6′·7.

(NOTE.—Summed range means sum without regard to sign of the 24 ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53′ 36″$; $\lambda = 72° 48′ 56″$; $h = 11$m. *Subsoil* Trap.

Apparatus.—Omori Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	20	32		
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Feb. 4th	P	19 0 34	...	...	...	...	...	
	M	19 11 39	...	...	35	...	...	
„ 7th	P	5 29 35	...	...	...	...	...	
	M	5 47 46	...	...	75	...	...	
„ 12th	P	3 10 47	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.
„ 13th	P	2 39 30	...	...	...	...	...	
	M	2 56 35	...	...	25	...	...	
„ „	P	6 14 58	...	...	...	..	...	
	M	6 22 2	...	...	135	...	...	

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32′$ N; $\lambda = 88° 20′$ E; $h = 6·4$m. *Subsoil* Alluvial.

Apparatus.—Two Omori Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Feb. 4th	P	17 58 12	3	...	...	...	...	
	S	18 3 48	7	...	...	...	...	
	F	18 18 42	...	...	...	...	...	
„ 5th	P	21 6 54	...	...	...	...	...	
	S	21 8 6	...	...	...	...	...	
	F	21 24 0	...	...	...	...	...	
„ 7th	P	5 27 48	2	...	...	...	...	
	S	5 33 48	5	...	...	...	...	
	L	5 38 12	(?)	...	...	...	...	
	F	5 55 0	...	...	...	...	...	
„ 13th	P	6 13 6	4	...	...	...	...	
	S	6 18 48	5	...	...	...	...	
	L	6 22 48	7	...	...	...	...	
	M	6 28 18	...	759	...	...	...	
	F	7 13 48	...	...	..	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6'$ N; $\lambda = 77° 11'$ E; $h = 2{\cdot}1$ *km.* *Subsoil* Rock.

Apparatus.—Two Omori Ewing Horizontal Pendulum Seismographs (masses 50 kg.)

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.)	Remarks.
1918.		h. m. s.						
Feb. 4th	e	18 1 30	...	...	...	...	...	
	M	18 4 12	...	107	...	...	...	
	M	18 5 30	...	...	64	...	...	
	F	18 20 36	...	...	...	...	...	
„ 7th	P	5 29 12	...	...	...	...	...	
	S	5 36 36	...	...	...	...	...	
	M	5 47 36	35	179	...	...	...	
	F	6 28 48	...	...	...	...	...	
1918.		h. m. s.						
Feb. 13th	e	2 46 6	...	...	...	...	...	
	M	2 59 48	...	68	...	...	...	
	F	3 23 0	...	...	...	...	...	
„ 13th	P	6 13 54	...	...	...	...	...	
	S	6 19 30	...	...	...	...	...	
	L	6 26 0	...	...	...	...	...	
	M	6 30 6	40	804	...	...	...	
	F	7 52 6	...	...	...	...	...	

The following table contains a list of earthquakes that were reported.

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m.	Sec.			
Meshed (Persia) . .	Feb. 5th	1 15	2	4	1	
Gauhati . . .	„ 5th	21 5	30	7	1	
Jalalabad (Afghanistan)	„ 19th	19 26	15	6	1	

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Weather in the Indian Ocean.

7. Barometric pressure was distinctly high at all the three representative stations, the excess being greatest in Mauritius. Wind velocity was below the average at Seychelles, while at Zanzibar the direction was somewhat more easterly than usual. Rainfall was above normal by 49 per cent. at Mauritius, but was below it by 39 per cent. at Zanzibar and 47 per cent. at Seychelles.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
	"	"	"
Departure from normal of mean pressure.	+·071	+·029	+·039
Actual mean wind direction . .	S 85° E	N 39° E	N 20° W
Normal mean wind direction . .	S 82° E	N 27° E	N 21° W
Actual mean wind velocity (miles per diem).	65	122	81
Normal mean wind velocity (miles per diem).	60	118	107
Rainfall departure from normal . .	+3·49	—0·87	—5·86

Depressions.

8. A succession of seven winter disturbances affected the weather in northwest India during the course of the month, but the precipitation associated with most of them was confined to Kashmir and the hills of the North-West Frontier Province. Only one of these which followed a more southerly path gave widespread rain in the north Punjab, the North-West Frontier Province, Kashmir and north Baluchistan on the 22nd, 24th and 25th, and occasioned nearly general rain in upper Assam towards the close of the month.

A slight disturbance in the south of the Bay occasioned many falls of rain in the coast districts of Madras between the 19th and the 22nd.

Pressure.

9. On the mean of the whole of February barometric pressure in the plains was above normal by ·033″. The excess was nearly general, the only region where pressure was sensibly normal being along the foot of the Himalayas from Bahraich to Dibrugarh. The high pressure conditions were not traceable directly to any abnormalities of temperature as recorded in the lowest stratum of the atmosphere.

The vertical gradient was steeper than usual in the Peninsula and the central parts of the country, much less steep along the central Himalayan region and about normal elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·030
Assam	+·006
Bengal	+·013
Bihar and Orissa	+·021
United Provinces	+·022
Punjab	+·039
North-West Frontier Province	+·045
Sind	+·038
Rajputana	+·042
Bombay	+·035
Central India	+·037
Central Provinces	+·037
Hyderabad	+·041
Mysore	+·040
Madras	+·043

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	+·053	Jacobabad	+·041	—·012
Leh	+·030	Lahore	+·036	+·006
Murree	+·023	Peshawar	+·042	+·019
Simla	+·067	Ludhiana	+·035	—·032
Muktoswar	+·037	Bareilly	+·013	—·024
Darjiling	+·010	Dhubri	+·008	—·002
Mount Abu	+·052	Deesa	+·053	+·001
Pachmarhi	+·022	Khandwa	+·048	+·026
Kodaikanal	0	Madura	+·042	+·042

Temperature.

10. Maximum temperature exceeded the average by upwards of 3° in the United Provinces, the Punjab, the North-West Frontier Province, Baluchistan and Rajputana and by amounts varying between 2° and 3° in Bihar, Kashmir and Central India, and was in defect by more than 2° in the Bay Islands, Mysore, Madras Southeast and the Madras Deccan; in all the other sub-divisions, the departures were less than 2°. Minimum temperature was slightly above normal in the Punjab Southwest and Kashmir and below normal by 4° in Orissa, about 3° in Madras Southeast and the Madras Coast North and by 2° in the Bay Islands, Mysore and the Madras Deccan.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	83·7	72·9	78·3	10·8	—2·5	—2·3	—0·2
2. Lower Burma	86·3	65·1	75·7	21·1	—1·9	—1·6	—0·3
3. Upper Burma	84·9	55·9	70·4	29·0	—0·3	—0·7	+0·4
4. Assam	76·6	53·9	65·3	22·7	+0·5	—0·2	+0·7
5. Bengal	82·3	56·1	69·2	26·2	+1·3	—1·6	+2·9
6. Orissa	86·7	59·5	73·1	27·2	+0·5	—3·9	+4·4
7. Chota Nagpur	83·7	55·9	69·8	27·8	+1·5	—0·7	+2·2
8. Bihar	81·4	52·3	66·8	29·0	+2·8	—1·0	+3·8
9. United Provinces, East	81·2	51·3	66·3	29·9	+3·1	0	+3·1
10. Do. do., West	79·7	49·7	64·7	30·0	+3·5	+0·1	+3·4
11. Punjab, East and North	74·4	46·9	60·7	27·5	+3·6	+0·7	+2·9
12. Do., Southwest	74·9	47·3	61·1	27·6	+3·2	+2·2	+1·0
13. Kashmir	40·5	19·1	29·8	21·4	+2·8	+2·6	+0·2
14. North-West Frontier Province	71·8	44·9	58·3	26·9	+3·1	+1·5	+1·6
15. Baluchistan	64·7	38·3	51·5	26·5	+3·2	+0·3	+2·9
16. Sind	80·7	56·3	68·5	24·3	+1·8	+1·8	0
17. Rajputana, West	82·3	52·4	67·4	29·9	+3·6	+0·7	+2·9
18. Do., East	81·5	53·5	67·5	28·0	+3·1	+1·5	+1·6
19. Gujarat	85·8	57·3	71·6	28·6	+1·2	—0·1	+1·3
20. Central India, West	84·5	53·5	69·0	31·1	+2·9	+1·7	+1·2
21. Do. do., East	81·8	50·7	66·2	31·1	+2·5	—0·8	+3·3
22. Berar	90·4	61·9	76·1	28·5	+1·7	+1·7	0
23. Central Provinces, West	86·2	56·7	71·4	29·5	+1·5	+1·2	+0·3
24. Do. do., East	86·9	57·0	71·9	29·9	+1·7	+0·2	+1·5
25. Konkan	85·8	68·7	77·2	17·1	+0·9	+0·3	+0·6
26. Bombay Deccan	89·7	59·1	74·4	30·6	—0·6	+0·5	—1·1
27. Hyderabad, North	90·5	62·0	76·3	28·5	+1·3	—0·7	+2·0
28. Do., South	90·0	64·8	77·5	25·1	—1·3	—0·7	—0·6
29. Mysore	85·5	59·6	72·5	25·9	—2·3	—2·2	—0·1
30. Malabar	87·1	71·3	79·2	15·9	—1·0	—1·8	+0·8
31. Madras, Southeast	87·0	65·9	76·5	21·1	—2·2	—3·3	+1·1
32. Do., Deccan	91·7	64·8	78·2	27·0	—2·7	—1·9	—0·8
33. Do., Coast, North	85·1	66·0	75·6	19·1	—1·2	—2·7	+1·5

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·1	—1·2	—1·1
Assam	+0·5	—0·2	+0·2
Bengal	+1·3	—1·6	—0·2
Bihar and Orissa	+1·6	—2·2	—0·3
United Provinces	+3·3	+0·1	+1·6
Punjab	+3·4	+1·2	+2·3
North-West Frontier Province	+3·1	+1·5	+2·3
Sind	+1·8	+1·8	+1·8
Rajputana	+3·3	+1·2	+2·2
Bombay	+0·5	+0·2	+0·4
Central India	+2·7	+0·5	+1·6
Central Provinces	+1·6	+1·1	+1·3
Hyderabad	—0·4	—0·7	—0·5
Mysore	—2·3	—2·2	—2·3
Madras	—1·8	—2·7	—2·3

Winds.

11. (*a*) The air movement was either about the average or below it except in the Punjab, Mysore and Madras where it was above normal.

(*b*) Winds were remarkably steady for the time of the year in Assam, the United Provinces, the Punjab, Hyderabad and Mysore and were less steady than usual in the North-West Frontier Province and Sind.

(*c*) The direction was more westerly than usual on the Coromandal coast. Both at Srinagar and Leh the mean wind direction was northerly while the normal wind direction is from the south.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·1	— 3
Assam	—0·1	+26
Bengal	—0·6	— 4
Bihar and Orissa	—0·2	— 5
United Provinces	—0·5	+19
Punjab	+0·3	+14
North-West Frontier Province	—0·8	—15
Sind	—1·6	—14
Rajputana	—0·2	+ 7
Bombay	—0·9	+ 2
Central India	—0·7	— 4
Central Provinces	—0·2	+ 1
Hyderabad	—1·0	+32
Mysore	+0·7	+19
Madras	+0·4	+10

Humidity and cloud.

12. The air was drier than usual both absolutely and relatively in Bihar and Orissa, the United Provinces and Mysore, but was damper in both respects in lower Sind and parts of Gujarat. The relative humidity alone was in defect in the Punjab, the North-West Frontier Province and the greater part of Rajputana and the Central Provinces, while in Madras the amount of water vapour in the air was below normal.

The sky was abnormally free from cloud in Bengal, Bihar and Orissa, the United Provinces, Sind, Rajputana, Central India, Mysore and Madras, and clouded to more than the customary extent in Burma.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	80	— 2	·538	—·039	2·8	+0·5
Assam	88	— 1	·423	—·009	3·9	0
Bengal	78	— 2	·453	—·033	1·5	—0·8
Bihar and Orissa	65	— 9	·360	—·064	1·0	—1·3
United Provinces	60	—10	·289	—·039	1·0	—1·5
Punjab	65	— 8	·260	—·018	3·1	—0·3
North-West Frontier Province.	63	— 7	·237	—·007	4·1	+0·3
Sind	63	+ 3	·367	+·051	1·9	—0·7
Rajputana	46	— 5	·236	—·008	1·9	—0·8
Bombay	58	+ 1	·401	—·003	1·1	—0·3
Central India	51	— 4	·273	—·014	1·4	—0·8
Central Provinces	48	— 5	·309	—·013	1·5	—0·3
Hyderabad	54	— 1	·428	—·021	1·1	—0·3
Mysore	61	— 5	·408	—·073	1·6	—0·7
Madras	75	— 2	·612	—·071	1·8	—0·7

Rainfall.

13. The total rainfall of the month was in large defect over almost the whole of India. The deficiency was least, 24 per cent in Baluchistan and ranged from 40 per cent to 70 per cent in Assam, Berar, the Central Provinces West, Mysore, Malabar, Madras Southeast and the Madras Coast North. Elsewhere it exceeded 70 per cent, weather being absolutely dry in lower Burma, Bihar, Sind, Rajputana, Gujarat, the Konkan and Hyderabad South.

The large deficiency of rainfall extended to Ceylon and the Malay Peninsula. In the regions to the west of India rainfall was in excess in north Persia, Mesopotamia and the Mediterranean coast of Egypt, but in defect over the remainder of Egypt and in South Persia.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0·5	0·9	0·09	0·54	—0·45	— 83
2. Lower Burma	0	0·4	0	0·25	—0·25	—100
3. Upper Burma	0	0·4	0·02	0·14	—0·12	— 86
4. Assam	2·2	3·1	0·65	1·49	—0·84	— 56
5. Bengal	0	1·6	0·01	1·01	—1·00	— 99
6. Orissa	0	1·4	0·01	1·08	—1·07	— 99
7. Chota Nagpur	0	2·5	0·04	1·37	—1·33	— 97
8. Bihar	0	1·6	0	0·68	—0·68	—100
9. United Provinces, East	0·1	1·3	0·01	0·56	—0·55	— 98

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
10. United Provinces, West	0·1	1·7	0·02	0·93	—0·91	— 98
11. Punjab, East and North	0·2	2·1	0·04	1·09	—1·05	— 96
12. Do., South-west	0·3	1·4	0·08	0·58	—0·50	— 86
13. Kashmir	2·4	4·9	0·89	3·78	—2·89	— 76
14. North-West Frontier Province	0·8	3·0	0·26	1·38	—1·12	— 81
15. Baluchistan	2·9	3·3	1·07	1·40	—0·33	— 24
16. Sind	0	0·7	0	0·27	—0·27	—100
17. Rajputana, West	0	0·7	0	0·30	—0·30	—100
18. Do., East	0	0·8	0	0·35	—0·35	—100
19. Gujarat	0	0·3	0	0·11	—0·11	—100
20. Central India, West	0·1	0·7	0·03	0·32	—0·29	— 91
21. Do., East	0·4	1·3	0·11	0·67	—0·56	— 84
22. Berar	0·3	0·6	0·11	0·31	—0·20	— 65
23. Central Provinces, West	0·7	1·1	0·28	0·63	—0·35	— 56
24. Do., East	0·6	1·4	0·16	0·95	—0·79	— 83
25. Konkan	0	0·1	0	0·04	—0·04	—100
26. Bombay Deccan	0	0·2	0·01	0·07	—0·06	— 86
27. Hyderabad, North	0	0·4	0·01	0·19	—0·18	— 95
28. Do., South	0	0·5	0	0·23	—0·23	—100
29. Mysore	0·1	0·2	0·04	0·10	—0·06	— 60
30. Malabar	0·1	0·2	0·10	0·17	—0·07	— 41
31. Madras, South-east	0·6	0·8	0·28	0·51	—0·23	— 45
32. Do., Deccan	0	0	0·01	0·09	—0·08	— 89
33. Do., Coast, North	0·2	0·5	0·17	0·37	—0·20	— 54

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·01	0·18	—0·17	— 94
Assam	0·65	1·49	—0·84	— 56
Bengal	0·01	1·01	—1·00	— 99
Bihar and Orissa	0·01	0·94	—0·93	— 99
United Provinces	0·01	0·76	—0·75	— 99
Punjab	0·05	0·96	—0·91	— 95
North-West Frontier Province	0·26	1·38	—1·12	— 81

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·27	—0·27	—100
Rajputana	0	0·33	—0·33	—100
Bombay	0·01	0·08	—0·07	— 87
Central India	0·05	0·45	—0·40	— 89
Central Provinces	0·18	0·69	—0·51	— 74
Hyderabad	0	0·21	—0·21	—100
Mysore	0·04	0·10	—0·06	— 60
Madras	0·20	0·39	—0·19	— 49
Mean of India	0·08	0·55	—0·47	— 85

Snowfall.

I.—PERSIA.

14. *Meshed.*—A light fall of snow occurred on the 9th.

II.—TURKISTAN.

Kashgar.—Light snow fell on the 4th.

III.—AFGHANISTAN.

There were falls of snow of about one foot on the 5th and of about half a foot on the 9th on the Hindu Kush and Koh Sufed, and on the latter date 4 inches fell in the regions around Kabul. On the last three days of the month about 1½ feet of snow fell on these ranges as well as on the Paghman and Shakardara.

IV.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—The statement below gives the character of the snowfall in this locality:—

TABLE 17.

Locality.	Elevation.	No. of falls.	Total depth of snow.
	Feet.		"
Marwatti and Pirghal . . .	11,000	3	12
Bosh and Drenashtar . . .	11,000	2	9
Kot-Kun	7,900	1	2

There was only about 2 inches of unmelted snow lying at the end of the month on the highest peaks and in sheltered ravines.

(*b*) *Kohat.*—There was no snowfall on the Samana range.

(*c*) *Hazara.*—Twelve falls occurred in the course of the month.

The following gives the total depth of snow that fell during the month and the total accumulation on the 15th of February.

TABLE 18.

Locality.	Elevation.	Actual snowfall	Depth of accumulation on 15th February, 1918.
	Feet.	Feet. inches.	Feet. inches.
Narang	8,000	6 10	4 0
Paludran	7,300	4 6	3 0
Kagan	6,600	3 1	2 0
Jared	5,000	*Nil.*	*Nil.*
Malkandi	4,500	*Nil.*	*Nil.*
Sundigali	7,000	1 5	1 0
Jachha	6,500	0 11½	*Nil.*
Thandiani	8,800	0 8	2 8
Dungagali	8,000	0 8	2 4

V.—KASHMIR.

(*a*) *Srinagar.*—Two falls of snow occurred during the month; during the second fortnight, however, the precipitation was chiefly in the form of rain. The total falls of rain and snow amounted to 1·76″.

(*b*) *Skardu.*—On the hills surrounding the station light falls of snow measuring less than one inch occurred on 12 days, but on the 28th the fall was rather heavy and amounted to 2 feet on the higher ranges and to 1 foot on the lower ranges. At the station there were three light falls. The depth of unmelted snow at the end of the month was 2 feet on the higher passes.

(*c*) *Dras.*—Snow fell on 13 occasions and the total fall amounted to about 1½ feet.

(*d*) *Kargil.*—About 1½ feet of snow fell on the hills round this station. On the last day of the month the estimated accumulations of snow were 7 feet on Archulla, 5 feet on Nakthulla, 4 feet on Samenulla, 3 feet on Narianulla and Pazgulla and 2 feet on Barulla. In the station itself snow lay to a depth of 4 inches.

VI.—PUNJAB.

(*a*) *Chamba.*—There were three snowfalls during the month of about 3 inches each at elevations above 8,000 feet.

(*b*) *Kilba* (*Simla Hills*).—Snow fell on 4 days to a total depth of 4 inches, and on two of these occasions the snow line descended to 7,000 feet.

TABLE 19.

Name of pass.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Rupin	5	13
Brua	4	13½
Shatul	4	12½
Harang	3	8

All the passes remained closed during the month.

VII.—UNITED PROVINCES.

(*a*) *Garhwal.*—6″ of snow is reported to have fallen on the peaks above 12,000 feet in the north of this district.

(*b*) *Almora.*—The aggregate snowfall of the month was estimated at 1 foot at Malla Danpur, 4 feet at Malla

Darma, 3½ feet at Byans and 2⅛ feet at Chaudas. The snow line descended from the perpetual snows to 5 miles in Chaudas, 10 miles in Byans, 12 miles in Malla Darma and 3 or 4 miles in Malla Danpur.

TABLE 20.

Name of pass or peak.	Depth of accumulation,	
	Reported.	Normal.
	Feet.	Feet.
Binkaru Pass	7	24
Lampia ,,	14	21½
Lipulekh ,,	13	19
Nuwe ,,	15	37
Pindari peak	1	9
Kaphini ,,	1	9
Kuntela ,,	1	9
Untadhura	5	18
Ralamdhura	5	14
Milamdhura	5	16½
Bagdwar	5	...
Nanda kot	1	...

VIII.—NORTH-EAST HIMALAYAS.

(*a*) *Sikkim.*—More than 2 feet of snow fell in the course of the month at Yatung.

(*b*) *North-East Frontier District.*—Several snowstorms occurred during the month.

(*c*) *Kamrup.*—3″ of snow fell on Tangsan, 1 foot on the Ongrila and Fengla and light snow in Tumkha.

SUMMARY.

15. According to the available information, the snowfall of the month was below the average in the mountain regions to the north and west of the Punjab, and about normal in the United Provinces hills.

V. DORAISWAMY IYER.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in February, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	30·044	29·915	·129	29·971	+·014	29·940	85·1	58·8	26·3	92·0	49·7	42·3	75·9	83·9	71·0	+0·7	56·8	63·4	63·6	61·3
	VI.—Punjab.																					
11	Lahore . . .	702	29·364	29·274	·090	29·310	+·029	30·009	74·4	46·5	27·9	80·8	34·7	46·1	62·0	73·7	59·4	+2·1	46·7	53·2	57·9	51·6
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·639	28·529	·110	28·573	+·035	29·972	82·0	53·6	28·4	92·5	42·0	50·5	72·8	81·0	66·7	+2·5	46·2	54·9	57·8	53·0
	X.—Bombay.																					
25	Bombay . .	37	30·019	29·897	·122	29·964	+·031	29·941	83·6	69·1	14·5	88·2	61·3	26·9	75·8	79·0	75·5	+0·7	62·5	66·8	70·4	66·6
	XIV.—Mysore.																					
29	Bangaloro . .	3,021	27·080	26·951	·129	27·012	+·043	29·859	84·8	57·2	27·6	89·9	52·8	37·1	75·7	82·7	70·3	−1·7	54·3	60·5	61·0	58·6
	XV.—Madras.																					
31	Pudukkottai . .	318	29·761	29·614	·147	29·688		29·937	88·5	66·1	22·4	94·1	61·9	32·2	78·3	86·1	77·3			69·3	70·4	
	Madras . .	22	30·066	29·950	·116	30·006	+·040	29·958	85·5	66·3	19·2	94·5	69·8	33·7	80·6	82·6	75·0	−1·6	65·9	72·0	72·8	70·2
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·698	25·622	·076	25·657	+·009	25·611	72·1	38·6	33·5	78·0	32·8	45·2	56·6	67·5	55·2	+2·7	37·4	48·4	52·7	46·2
	Kodaikanal . .	7,688	22·890	22·830	·060	22·860		22·795	64·8	43·5	21·3	70·6	40·3	30·3	57·6	58·3	54·1		38·1	46·7	49·9	44·9
	Extra India.																					
	Seychelles . .	15	30·008	29·912	·096	29·968	+·039†	29·906	83·1	76·9	6·2	86·3	72·3	14·0	80·9	81·8	8·9	−0·7†	70·9	75·8	76·4	74·4
	Mauritius . .	181				29·734	+·060	29·864	82·6	71·2	11·4	86·2	65·8	20·4			76·5	−1·0				72·7

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
† Departure from old normal.

A.

at 11 stations in India, etc., in February, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of Sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·146	·423	·321	·423	—·062	88	47	27	57	— 9	0·4	0·6	0·5	—1·7	0	4	2	1	0	2	15	17	15	N 84° W	N 73° W	64	25	71	58	0	0	Calcutta . .	5
																															VI.—Punjab.	
·232	·293	·272	·281	—·006	78	53	33	58	— 4	3·8	2·8	3·3	—0·6	6	3	3	1	0	0	3	5	35	N 46° W	N 30° W	71	30	37	39	0·13	0·12	Lahore . .	11
																															IX.—Rajputana.	
·230	·216	·195	·221	—·041	55	26	18	37	—10	1·5	2·4	1·9	—1·2	0	5	9	7	3	3	2	8	19	N 22° W	N 20° W	36	33	73	66	0	0	Jaipur . .	18
																															X.—Bombay.	
·478	·533	·631	·572	—·047	67	60	63	67	— 4	1·0	0·8	0·9	—0·3	0	5	10	8	2	0	0	4	27	N 13° W	N 1° W	53	57	165	183	0	0	Bombay . .	25
																															XIV.—Mysore.	
·392	·312	·287	·345	—·062	84	39	26	52	— 2	0·8	1·9	1·3		1	0	10	34	10	0	1	0	0	S 89° E	S 69° E	84	59	142	88	0·30	0·30	Bangalore . .	29
																															XV.—Madras.	
	·588	·534				59	43			3·2	2·3	2·7		6	2	26	12	6	2	0	2	0	N 66° E		62		99		0·19	0·11	Pulukkottai .	31
·631	·672	·674	·683	—·032	97	65	61	77	— 1	2·2	1·9	2·1	—1·1	0	2	12	23	13	6	0	0	0	S 83° E	S 84° E	73	72	69	88	2·18	1·88	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·199*	·247	·232	·236	—·024	82*	54	35	60	— 9	2·5	3·5	3·0	—0·5	0	5	3	18	0	0	0	29	1	N 51° W	N 87° W	21	47	17	21	0	0	Katmandu.	
·176	·207	·273	·219		62	45	56	54		1·3	2·5	1·9		1	9	10	7	10	1	0	3	15	N 22° E		36		233		0·57	0·45	Kodaikanal.	
																															Extra India.	
·676	·821	·836	·801	—·041	73	78	73	78	— 5	6·0	5·4	5·7	—0·8	11	10	6	0	4	0	0	0	25	N 20° W	N 21° W	55	53	81	107	6·74	2·33	Seychelles.	
			·750	—·027				81	+ 2			6·4	+0·4										S 85° E	S 82° E			199	182	10·60	3·04	Mauritius.	

* Mean of 24 days.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in February, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·030	85·7	−1·1	61·4	−1·2	73·5	−1·1	24·4	+0·1	− 3	80	− 2	·538	−·039	2·8	+0·5	0·01	0·18	−0·17
Assam	+·006	76·6	+0·5	53·9	−0·2	65·3	+0·2	22·7	−0·1	+26	88	− 1	·423	−·009	3·9	0	0·65	1·49	−0·84
Bengal	+·013	82·3	+1·3	56·1	−1·6	69·2	−0·2	26·2	−0·6	− 4	78	− 2	·453	−·033	1·5	−0·8	0·01	1·01	−1·00
Bihar and Orissa	+·021	83·5	+1·6	55·3	−2·2	69·4	−0·3	28·2	−0·2	− 5	65	− 9	·360	−·064	1·0	−1·3	0·01	0·94	−0·93
United Provinces of Agra and Oudh	+·022	80·5	+3·3	50·6	+0·1	65·6	+1·6	30·0	−0·5	+19	60	−10	·289	−·039	1·0	−1·5	0·01	0·76	−0·75
Punjab	+·039	74·6	+3·4	47·1	+1·2	60·8	+2·3	27·5	+0·3	+14	65	−8	·260	−·018	3·1	−0·3	0·05	0·96	−0·91
North-West Frontier Province	+·045	71·8	+3·1	44·9	+1·5	58·3	+2·3	26·9	−0·8	−15	63	− 7	·237	−·007	4·1	+0·3	0·26	1·38	−1·12
Sind	+·038	80·7	+1·8	56·3	+1·8	68·5	+1·8	24·3	−1·6	−14	63	+ 3	·367	+·051	1·9	−0·7	0	0·27	−0·27
Rajputana	+·042	81·9	+3·3	53·1	+1·2	67·5	+2·2	28·8	−0·2	+ 7	46	− 5	·236	−·008	1·9	−0·8	0	0·33	−0·33
Bombay	+·035	87·0	+0·5	60·2	+0·2	73·6	+0·4	26·8	−0·9	+ 2	58	+ 1	·401	−·003	1·1	−0·3	0·01	0·08	−0·07
Central India	+·037	83·2	+2·7	52·1	+0·5	67·6	+1·6	31·1	−0·7	− 4	31	− 4	·273	−·014	1·4	−0·8	0·05	0·45	−0·40
Central Provinces	+·037	87·3	+1·6	58·0	+1·1	72·6	+1·3	29·4	−0·2	+ 1	48	− 5	·309	−·013	1·5	−0·3	0·18	0·69	−0·51
Hyderabad	+·041	90·2	−0·4	63·6	−0·7	76·9	−0·5	26·6	−1·0	+32	54	− 1	·428	−·021	1·1	−0·3	0	0·21	−0·21
Mysore	+·040	85·5	−2·3	59·6	−2·2	72·5	−2·3	25·9	+0·7	+19	61	− 5	·408	−·073	1·6	−0·7	0 04	0·1	−0·06
Madras	+·042	87·2	−1·8	66·7	−2·7	76·9	−2·3	20·4	+0·4	+10	75	− 2	·612	−·071	1·8	−0·7	0·20	0·39	−0·19

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·860		29·939	29·932	24th	29·797	5th	75·3	71·3	85·8		71·1		78·5		14·7	89·8	13th	67·3	4th
	Mergui	66	29·962	+·037	29·958	30·048	23rd	29·890	6th	71·9	69·9	87·6	−1·9	67·8	−2·0	77·7	−1·9	19·8	90·7	25th	61·9	1st
	Tavoy	19	30·005	+·018?	29·957	30·064	23rd	29·937	6th	69·7	66·5	88·8	−2·4	63·1	−4·5?	76·0	−3·5?	25·7	91·1	25th	55·4	1st
	Moulmein	94	29·947	+·043	29·981	30·027	18th	29·879	6th	71·5	67·0	89·3	−2·3	66·2	−1·9	77·8	−2·1	23·1	92·5	23rd	61·5	7th
	Rangoon	18	30·017	+·046	29·973	30·095	18th	29·936	6th	69·2	65·9	89·6	−2·9	65·6	−0·9	77·6	−1·4	24·0	92·9	27th	61·5	14th
	Bassein	27	30·011	+·040	29·975	30·066	18th	29·952	6th	71·3	68·0	88·8	−1·1	64·7	−1·2	76·7	−1·1	24·1	93·8	27th	57·9	4th
	Diamond Island	41	29·976	+·021	29·953	30·034	18th	29·899	6th	76·4	72·6	81·7	−2·3	73·4	+0·5	77·6	−0·9	8·3	85·6	18th	68·5	4th & 11th.
	Toungoo	164	29·862	+·040	29·975	29·942	18th	29·806	6th	65·8	63·0	89·1	−1·3	59·7	−1·4	74·4	−1·3	29·1	94·3	28th	54·7	13th
	Kyaukpyu	18	30·009		29·967	30·082	17th	29·926	6th	68·9	66·3	79·0		62·6		70·8		16·4	83·2	28th	57·9	9th
	Akyab	20	30·007	+·020	29·968	30·074	17th	29·939	6th	65·5	61·5	82·9	−1·6	57·2	−4·2	70·1	−2·9	25·7	92·4	23rd	51·0	1st & 11th.
3	Minbu	*165*	29·850	+·021	29·965	29·937	17th	29·772	6th	65·8	58·2	89·1	−1·1	60·0	−1·2	74·6	−1·3	29·1	93·7	22nd & 28th.	54·0	11th
—	Yamethin	644	29·356	+·029	29·972	29·439	17th	29·300	6th	66·0	60·6	88·5	−2·9	60·0	−0·1	74·3	−1·5	28·6	95·6	28th	56·1	16th
	Mandalay	250	29·768	+·029	29·975	29·867	17th	29·699	3rd	67·6	59·8	90·3	+0·4	59·1	−1·2	74·7	−0·4	31·2	95·5	28th	53·5	2nd
	Monywa	*280*	29·745	+·020	29·986	29·839	17th	29·674	6th	63·7	58·7	88·4	+1·2	58·4	−1·3	73·4	−0·1	30·0	94·8	28th	50·5	2nd
	Lashio	*2,820*	27·260	+·031	27·146	27·304	17th	27·131	6th	54·6	51·5	77·0	−1·6	49·0	+0·1	62·9	−0·7	28·0	83·7	28th	44·6	2nd
	Bhamo	*361*	29·636	+·019	29·971	29·747	17th	29·575	6th	57·1	56·0	81·1	+0·2	51·1	−1·7	66·1	−0·7	30·0	87·6	28th	46·6	2nd
	Myitkyina	458	29·539	+·019	29·978	29·653	17th	29·466	6th	59·3	56·8	80·0	+1·7	54·0	+0·3	67·0	+1·0	26·0	84·6	27th	49·4	2nd
	II.—Assam.																					
4	Dibrugarh	353	29·679	−·011	30·014	29·811	17th	29·588	6th	57·8	56·3	73·1	+0·9	54·7	+0·8	63·9	+0·9	18·4	78·6	23rd	46·7	10th
	Sibsagar	333	29·709	−·002	30·022	29·834	17th	29·634	14th	55·9	55·2	72·0	−0·8	52·6	−0·6	62·3	−0·7	19·4	78·4	23rd	46·1	10th
	Tezpur	252	29·797	+·012	30·022	29·915	17th	29·727	14th	57·4	55·8	75·3	+0·5	55·2	+0·4	65·7	+0·5	21·1	81·9	22nd & 23rd.	47·2	9th
	Gauhati	196	29·857	+·007	30·019	29·976	17th	29·785	6th	58·5	56·4	78·5	+0·8	52·0	+0·1	65·3	+0·5	26·5	84·3	23rd	43·1	8th
	Dhubri	115	29·914	+·008	29·989	30·027	17th	29·836	27th	60·5	57·0	78·4	+0·8	56·1	+0·6	67·2	+0·7	22·3	84·7	21st	50·0	8th
	Silchar	104	29·958	+·022	30·020	30·062	17th	29·883	14th	60·2	57·6	81·3	+0·8	52·9	−2·6	67·1	−0·9	28·4	86·7	26th & 28th.	44·2	9th
	Srimangal	66	29·976		29·996	30·078	17th	29·905	14th & 26th.	52·7	51·5	85·1	+2·5	48·0?	−4·1?	66·6?	−0·8?	37·1	90·7	27th	37·8	8th
	III.—Bengal.																					
5	Cox's Bazar	36	29·998		29·980	30·081	17th	29·934	6th	65·5	62·0	82·0		56·8		69·4		25·2	87·7	22nd	50·5	1st
	Chittagong	87	29·942	+·016	29·986	30·049	17th	29·877	14th	62·6	59·8	82·3	+0·1	55·7	−3·0	69·0	−1·5	26·6	87·8	27th	49·4	1st
	Noakhali	43	30·005	+·028	29·997	30·097	17th	29·923	26th	66·3	63·1	82·0	+1·2	58·1	+0·8	70·1	+1·0	23·9	86·8	26th	47·8	10th
	Barisal	12	30·023	+·016	29·982	30·122	17th	29·946	27th	64·5	61·0	81·7	+0·2	57·8	−1·6	69·7	−0·7	23·9	89·9	28th	48·5	10th
	Narayanganj	26	30·006	+·010	29·982	30·124	17th	29·918	27th	63·0	59·1	82·9	+1·3	57·9	−0·6	70·4	+0·3	25·0	90·7	28th	48·2	8th
	Mymensingh	63	29·972	+·013	29·990	30·067	17th	29·890	26th & 27th.	59·2	56·4	80·7	+2·1	55·6	−0·2	68·1	+0·9	25·1	87·4	28th	45·8	8th
	Bogra	75	29·956	+·009	29·986	30·060	17th	29·864	26th	58·7	55·3	81·7	+1·8	53·1	−1·3	67·4	+0·3	28·6	89·8	27th	44·4	8th
	Dinajpur	123	29·893	+·002	29·978	30·007	17th	29·805	26th	56·8	54·0	81·0	+1·7	51·4	−0·9	66·2	+0·4	29·6	88·1	21st	42·0	7th
	Jalpaiguri	283	29·738	+·010	29·995	29·850	17th	29·673	27th	57·4	55·2	78·3	+2·1	53·3	+0·5	65·8	+1·3	25·0	82·1	21st	44·3	7th
	Saugor Island	10	30·035	+·023	29·990	30·139	17th	29·938	26th	68·0	65·8	81·8	+0·9	60·5	−4·5	71·2	−1·8	21·3	88·2	24th	50·1	3rd
	Midnapore	149	29·873	−·002	29·977	29·989	17th	29·763	26th	65·5	56·7*	87·2	+1·8	58·1	−3·0	72·6	−0·6	29·1	95·6	27th	48·5	1st & 2nd.
	Calcutta	21	30·017	+·014	29·986	30·128	17th	29·922	26th	62·6	59·9	84·6	+2·6	58·7	−1·3	71·6	+0·7	25·9	91·9	27th	49·7	1st

* Mean of 27 days.

N. B.—Elevations in italics indicate barometrical determinations.

B.

t 214 stations in India, etc., in February, 1918.

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917, to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
2	1	19	5	1	0	0	0	0	N 55° E		7·1			82		81		·709		3·6		0		0	0·97	— 0·07	1·59	2·71	— 1·12	0	Victoria Point.
5	2	3	9	9	0	0	0	0	S 83° E	N 8° W	4·9	1·5	+3·4	60	+13	90	+ 5	·709	—·058	0·2	—2·9	0	—2·9	0	2·07	— 2·07	1·36	3·49	— 2·13	0	Mergui.
21	2	3	1	1	0	0	0	0	N 48° E	N 54° W	1·6	1·0	+0·6	18	+14	83	— 6	·606	—·091	4·1	+2·9	0	—1·0	0	0·51	— 0·51	1·13	0·94	+ 0·19	0	Tavoy.
7	0	7	13	1	0	0	0	0	N 77° E	N 84° E	2·4	1·7	+0·7	67	+19	79	— 5	·610	—·063	2·7	+0·7	0	—0·5	0	0·17	— 0·17	1·70	0·66	+ 1·04	0	Moulmein.
1	3	7	3	1	3	2	4	4	N 4° E	S 67° W	2·7	2·8	+0·9	30	—27	83	— 1	·592	—·037	3·8	+2·1	0	—0·4	0	0·25	— 0·25	1·02	0·84	+ 0·18	0	Rangoon.
21	2	1	6	0	0	0	1	3	N 27° W	N 43° W	2·1	3·3	—1·2	21	—38	84	— 3	·651	—·016	3·4	+1·8	0	—0·5	0	0·31	— 0·31	2·09	0·83	+ 1·26	0	Bassein.
4	19	5	0	0	0	0	2	7	N 10° W	N 9° W	7·1	6·4	+0·7	63	—12	83	+ 8?	·746	+ ·050	2·3	+0·1	0	—0·3	0	0·18	— 0·18	3·40	1·22	+ 2·18	0	Diamond Island.
12	5	7	0	2	2	0	0	0	N 44° E	N 6° E	1·4	1·4	0	32	— 3	85	+ 1	·536	—·032	5·3	+3·9	0	—0·4	0	0·19	— 0·19	0·21	0·84	— 0·63	0	Toungoo.
26	0	2	0	0	0	0	0	0	N 45° E		0·9			4		87		·614		5·3		0		0	0·13	— 0·13	0·29	0·50	— 0·21	0	Kyaukpyu.
3	7	16	2	0	0	0	0	0	N 36° E	N 21° E	3·2	2·6	+0·6	78	— 5	78	— 6	·495	—·047	2·0	+0·8	0	—0·3	0	0·13	— 0·13	0·17	0·90	— 0·73	0	Akyab.
11	2	2	0	2	2	2	0	7	N 45° W	N 70° W	1·7	4·6	— 2·9	14	— 4	61	— 4	·38	—·055	2·0	+0·8	0	—0·2	0	0·08	— 0·08	0	0·63	— 0·63	0	Minbu.
																72	+ 1	·458	— ·016	0·7	—0·5	0	—0·5	0	0·25	— 0·25	0·21	0·83	— 0·62	0	Yamethin.
16	0	0	0	3	6	1	0	0	S 9° E	S 30° W	2·1	1·5	+ 0·3	32	+21	61	— 8	·409	—·048	1·8	+0·4	9	—0·2	0	0·07	— 0·07	0·02	0·47	— 0·45	0	Mandalay.
4	17	0	0	0	0	0	0	7	N 12° W		1·6			8		72	— 2	·429	—·030	0·4	—1·2	0	—0·1	0	0·02	— 0·02	0	0·44	— 0·44	0	Monywa.
20	0	1	3	1	0	0	1	2	N 56° E		2·3			7		80	— 2	·339	—·024	1·7	—1·7	0	—0·8	0	0·31	— 0·31	0	1·55	— 1·55	0	Lashio.
21	1	2	0	0	0	1	0	0	N 24° E	N 18° W	0·5	2·0	—1·5	9	—16	93	+ 4	·433	— ·005	5·2	+2·42	1	—0·3	0·16	0·45	— 0·29	0·17	1·60	— 1·43	0·16	*Bhamo.*
27	0	0	1	0	0	0	0	0	E		1·9			4		85	— 1	·426	—·020	3·0	—0·4	1	—1·0	0·15	0·80	— 0·65	0·23	1·77	— 1·54	0·15	*Myitkyina.*
																															II.—Assam.
22	0	2	4	1	0	1	0	0	E		0·5			12		91	— 1	·437	+·008	4·6	—0·5	5	+0·1	1·17	2·27	— 1·10	2·01	4·29	— 2·28	0·31	Dibrugarh.
19	2	5	0	1	0	1	0	0	N 40° E	N 48° E	1·0	1·7	—0·7	18	—18	96	— 1	·428	—·026	7·9	+1·7	5	0	2·21	1·99	+ 0·22	3·41	3·86	— 0·42	0·49	Sibsagar.
16	0	6	6	0	0	0	0	0	N 61° E		1·2			39		90	+ 2	·428	+·005	2·6	—0·8	1	—1·4	0·19	1·20	— 1·01	0·21	2·02	— 1·81	0·11	Tezpur.
18	1	5	7	1	0	1	0	0	N 60° E		1·4			21		87	— 2	·428	+·007	6·8	+1·5	2	—0·5	0·79	1·43	— 0·64	0·79	1·98	— 1·19	0·43	Gauhati.
5	0	10	9	0	1	2	1	0	N 71° E	N 67° E	3·4†	3·1	+0·3	53	+22	80	— 4	·421	— ·007	0·6	—1·7	0	—1·4	0	0·77	— 0·77	0·10	1·17	— 1·07	0	Dhubri.
2	0	8	17	1	0	0	0	0	N 79° E	S 63° E	2·0	1·8	+0·2	82	+74	84	— 2	·443	—·033	3·2	—0·1	0	—3·6	0·10	2·13	— 2·03	0·17	3·44	— 3·27	0·05	Silchar.
																91	+ 4	·373	—·079?	1·5		1	—1·2	0·10	1·61	— 1·54	0·18	2·60	—2·42	0·10	Srimangal.
																															III.—Bengal.
28	0	0	0	0	0	0	0	0	Calm		1·7			(a)		81		·516		0·7		0		0	0·16	— 0·16	0	1·25	— 1·25	0	Cox's Bazar.
20	0	4	2	2	0	0	0	0	N 78° E	N 45° E	2·0	2·8	—0·8	21	—34	84	+ 1	·489	—·021	1·6	—0·6	0	—1·2	0	1·04	— 1·04	0	2·15	— 2·15	0	Chittagong.
7	4	7	2	2	3	1	1	1	N 50° E		1·9			29		83	— 2	·548	+·015	1·8	—0·5	0	—2·0	0	1·25	— 1·25	0	1·99	— 1·86	0	Noakhali.
23	2	0	0	0	2	1	0	0	S 45° W	N 13° W	0·7	1·5	—0·8	4	— 4	80	— 4	497	—·049	4·0	+1·9	0	— 1·8	0	1·11	— 1·11	0·02	2·02	— 2·00	0	Barisal.
22	0	0	1	0	1	2	0	2	S 59° W	N 27° W	1·2	2·1	—0·9	7	— 1	78	— 5	·461	—·039	1·8	—1·1	0	—1·9	0	1·36	— 1·36	0·08	1·88	— 1·80	0	Narayanganj.
27	0	0	0	1	0	0	0	0	S 45° E	N 74° E	0·2	1·4	—1·2	4	—27	83	0	·423	—·031	3·0	+0·9	0	—1·6	0	0·95	— 0·95	0	1·44	— 1·44	0	Mymensingh.
20	0	1	1	1	2	1	2	0	S 7° W	N 27° W	0·6	1·8	—1·2	10	— 1	80	+ 2	·397	—·021	1·4	—0·1	0	—1·7	0	0·85	— 0·85	0·04	1·31	— 1·27	0	Bogra.
4	3	3	5	1	1	5	3	3	N 22° W	N 83° W	1·7	2·6	—0·9	7	—22	82	+ 2	·384	—·014	0·1	—2·3	0	—1·1	0	0·69	— 0·69	0·08	1·02	— 0·94	0	Dinajpur.
28	0	0	0	0	0	0	0	0	Calm	N 40° E	1·1			(a)		86	+ 1	·407	—·010	1·1	—0·7	0	—1·1	0·02	0·73	— 0·71	0·02	1·18	— 1·16	0·02	Jalpaiguri.
1	9	3	1	0	1	7	1	5	N 36° W	N 3° W	5·2	5·3	—0·1	39	+15	89	+ 3	·618	—·009	1·6	—1·6	0	—1·2	0	1·13	— 1·13	0·30	1·73	— 1·43	0	Sangor Island.
20	5	0	0	0	0	0	1	2	N 18° W		1·8			21		54‡	—14	·350‡	—·099	1·3	—0·7	0	—1·5	0	1·28	— 1·28	0·02	2·05	— 2·03	0	Midnapore.
7	2	1	0	0	1	9	2	6	S 88° W	S 46° W	2·9	2·4	+0·5	42	+26	85	+ 4	·491	—·022	1·5	—1·0	0	—1·6	0	1·14	— 1·14	0	1·75	— 1·73	0	Calcutta.

(a) Indeterminate.
† Wind observations for 25 days.
‡ Mean of 27 days.

Tabl

(2) Abstract of observations taken at 8 h

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	30	30·015	+·021	29·993	30·115	17th	29·919	26th	63·1	58·7	82·7	+0·5	55·0	−2·2	68·9	−0·9	27·7	90·5	28th	45·9	10th
	Burdwan	99	29·931	+·003	29·981	30·046	17th	29·837	26th	64·6	57·6	85·1	+1·9	56·9	−1·7	71·0	+0·1	28·2	93·0	27th & 28th.	49·0	1st
	Berhampore	67	29·971	+·012	29·994	30·064	17th	29·868	26th	59·6*	54·9*	89·7*	−0·7*	53·2*	−3·2*	67·0*	−1·9	27·5	90·4	21st	48·4	8th
	IV.—Bihar and Orissa.																					
6	Balasore	56	29·993	+·014	29·991	30·102	17th	29·882	26th	63·8	58·4	86·8	+2·2	57·3	−4·2	72·0	−1·0	29·5	93·7	28th	48·2	1st
	Hukitala (False Point)	29	30·020	+·034	29·990	30·112	17th	29·922	26th													
	Cuttack	80	29·975	+·034	29·999	30·083	17th & 18th.	29·876	26th	66·5	61·9	88·6	−0·6	61·3	−4·2	75·0	−2·4	27·3	96·5	27th	53·1	1st
	Puri	24	30·030	+·032	29·998	30·133	18th	29·913	26th	69·3	66·1	82·7	−0·3	66·0	−3·0	74·3	−1·7	16·7	88·1	16th	57·4	1st
	Angul	455	29·583	+·053	30·003	29·692	18th	29·489	26th	65·8	58·1	88·6	+1·4	57·2	−4·2	72·9	−1·4	31·4	96·0	28th	45·0	1st
	Sambalpur	486	29·564	+·045	30·021	29·669	17th	29·461	26th	65·1	58·3	86·9	−0·2	55·8	−4·1	71·4	−2·1	31·1	94·0	26th	46·3	1st
7	Chaibasa	*733*	29·288	+·048	30·011	29·388	17th	29·171	26th	60·1	55·2	85·8	+1·3	55·1	−2·0	70·5	−0·3	30·7	93·3	28th	44·2	1st
	Ranchi	2,128	27·869	+·023	29·992?	27·964	17th	27·788	26th	61·7	51·0	78·7	+1·6	55·5	+0·6	67·1	+1·1	23·2	86·5	21st	46·7	1st
	Purulia	*816*	29·213	+·019	30·017	29·321	17th	29·030	26th	63·1	53·4	86·6	+5·1?	57·0	−0·6	71·8	+2·3?	29·6	94·5	27th	46·2	1st & 9th,
	Dalton ganj	*730*	29·305	+·020	30·039	29·414	17th	29·172	26th	52·8	50·5	84·1	+5·1?	48·4?	−3·0?	66·3?	+1·1?	35·7	91·5	27th	37·8	1st
8	Purnea	121	29·895	+·001	29·981	30·017	17th	29·801	26th	55·9	52·3	80·4	+1·7	49·4	−1·9	64·9	−0·1	31·0	86·8	21st	41·2	10th
	Monghyr	155	29·863		29·978	29·986	17th	29·734	26th	61·5	53·1	80·5		54·8		67·6		25·7	89·0	27th	46·1	7th
	Darbhanga	165	29·858	+·008	29·987	29·989	17th	29·755	26th	58·5	53·4	79·7	+3·1	49·1	−4·1?	64·4	−0·7?	30·6	87·0	21st	39·7	7th
	Pusa	188	29·827		29·932	29·955	17th	29·730	26th	55·1	52·1	81·9		49·2		65·5		32·7	89·2	21st	41·6	8th
	Patna	183	29·850	+·011	29·997	29·979	17th	29·736	26th	62·5	53·7	79·6	+2·0	54·4	+0·6	67·0	+1·3	25·2	87·5	27th	47·2	1st
	Buxar	239	29·786	+·008	29·994	29·904	17th	29·668	26th	59·7	52·0	82·2	+3·9	52·7	−1·3	67·4	+1·3	29·5	88·8	28th	42·9	7th
	Gaya	372	29·668	+·020	30·014	29·780	17th	29·557	26th	63·0	53·3	82·9	+2·4	56·1	+0·3	69·5	+1·3	26·8	90·1	27th & 28th.	45·4	8th
	Naya Dumka	489	29·526	+·017	29·939	29·641	17th	29·430	26th	64·1	54·6	83·7	+4·0	53·1	−2·7	68·4	+0·7	30·6	92·6	27th	45·0	8th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·749	+·006	29·980	29·862	17th	29·648	26th	56·3	50·8	80·3	+2·9	50·5	−1·7	65·4	+0·6	29·8	86·3	28th	42·3	7th
	Benares	267	29·774	+·021	30·010	29·886	17th	29·661	26th	60·3	53·1	81·9	+2·5	51·0	−0·6	66·5	+0·9	30·9	88·3	28th	41·1	7th
	Allahabad	309	29·739	+·026	30·021	29·836	17th	29·633	26th	60·1	52·0	81·8	+2·3	51·7	0	66·7	+1·1	30·1	89·7	26th	40·3	7th
	Cawnpore	416	29·635	+·040	30·035	29·733	17th	29·533	26th	58·1	51·1	80·9	+3·3	53·0	+2·1	66·9	+2·7	27·9	88·2	26th	42·9	8th
	Lucknow	368	29·672	+·029	30·018	29·760	22nd	29·572	26th	61·1	52·4	82·1	+3·7	52·4	+1·7	67·3	+2·7	29·7	88·3	27th	43·4	1st
	Bahraich	407	29·595	+·007	29·988	29·694	17th	29·500	26th	55·9	49·9	80·4	+4·1	49·1	−1·3	64·8	+1·4	31·3	86·8	27th	40·8	6th
10	Jhansi	324	29·229	+·027	30·052	29·321	17th	29·147	26th	60·5	52·1	83·1	+2·4	52·5	−3·1?	67·8	−0·3?	30·6	90·9	26th	41·8	6th
	Agra	556	29·496	+·035	30·042	29·536	22nd	29·400	26th	60·7	52·0	79·4	+1·7	52·4	+0·2	65·9	+0·9	27·0	84·7	26th	42·8	6th
	Mainpuri	516	29·521	+·031	30·028	29·615	17th & 18th.	29·426	26th	56·5	49·9	81·2	+4·7	49·8	+0·3	65·5	+2·5	31·4	89·1	26th	40·6	5th
	Bareilly	568	29·431	+·013	29·996	29·533	17th	29·339	14th	55·7	51·1	79·0	+4·2	49·4	−0·2	64·2	+2·0	29·6	84·5	27th	40·0	6th
	Roorkee	899	29·101	+·025	30·033	29·193	18th	29·016	26th	49·8	46·3	75·7	+2·9	44·4	−2·6?	60·1	+0·1?	31·3	81·7	26th	46·0	5th
	VI.—Punjab.				—																	
11	Delhi	718	29·315	+·033	30·041	29·409	22nd	29·234	26th	57·5	49·1	76·8	+2·0	53·7	+2·2?	65·2	+2·1?	23·1	82·4	26th	45·4	6th
	Hissar	725	29·324	+·044	30·065	29·408	22nd	29·241	26th	52·8	47·9	78·3	+3·8	46·7	+0·1	62·5	+1·9	31·6	83·0	12th	35·7	6th

* Mean of 21 days.

N. B.—Elevations in italics indicate barometrical determinations.

3—*continued.*

214 stations in India, etc., in February, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
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	54	55
																														III.—Bengal—*concld.*	
27	0	0	0	0	0	1	0	0	S 45° W	N 18° W	1·1	1·6	—0·4	4	− 8	76	− 5	·415	—·050	1·3	—1·0	0	— 1·9	0	1·40	— 1·40	0·02	2·02	— 2·00	0	Jessore.
18	2	1	0	0	0	0	1	6	N 33° W	N 27° W	0·8	1·5	—0·7	32	+12	63	− 8	·391	—·042	1·0	—1·8	0	— 1·7	0·01	1·28	— 1·27	0·03	1·81	— 1·78	0·01	Burdwan.
11	0	1	0	0	4	5	4	0	S 45° W	S 83° W	1·2	1·6	—0·4	36	+ 5	73*	− 7	·371*	—·067	0·3	—2·2	0	— 1·8	0	0·93	— 0·93	0	1·44	— 1·44	0	Berhampore.
																														IV.—Bihar and Orissa.	
9	4	1	0	0	2	2	2	8	S 56° W	N 42° W	2·1	2·8	—0·7	36	+ 1	70	− 7	·425	—·090	1·2	—0·9	0	— 2·1	0·01	1·48	— 1·47	0·07	2·26	— 2·19	0·01	Balasore.
3	5	1	0	0	3	7	4	5	N 84° W		6·0			42	− 1					2·8	—0·6	0	— 1·3	0	1·00	— 1·00	0·07	2·15	— 2·08	0	Hakitala (False Point).
26	0	0	0	0	0	1	1	0	S 66° W	N 36° E	1·1	1·5	—0·4	7	0	81	+ 1	·513	—·062	2·6	—0·1	0	— 1·2	0	0·69	— 0·69	0	1·24	— 1·24	0	Cuttack.
2	13	2	1	0	0	4	3	3	N 27° W		8·2			57		84	+ 3	·606	—·055	1·5	—0·6	0	— 0·8	0	0·70	— 0·70	0·08	1·35	— 1·27	0	Puri.
6	0	0	0	0	0	0	1	21	N 47° W		3·7			79		61	—15?	·398	—·110	0·6	—2·6?	0	— 1·8	0	1·55	— 1·55	0·26	2·32	— 2·06	0	Angul.
0	9	0	2	0	1	3	1	6	N 4° W	N 27° E	2·4	2·1	+0·3	49	−13	65	− 1	·412	—·027	1·0	—1·3	0	— 1·6	0	0·80	— 0·80	0·27	1·39	— 1·12	0	Sambalpur.
21	0	0	0	0	2	5	0	0	S 33° W	S 86° W	1·4	1·1	+0·3	21	−36	70	− 6	·368	—·047	1·0	—1·2	0	— 2·4	0	1·60	— 1·60	0·09	2·49	— 2·40	0	Chaibasa.
3	0	0	0	0	0	1	11	13	N 68° W	N 68° W	4·8	4·2	+0·6	78	+43	43	−17	·240	—·077	1·0	—1·6	0	— 2·9	0·07	1·74	— 1·67	0·39	2·62	— 2·23	0·07	Ranchi.
4	1	0	0	0	0	1	13	9	N 71° W		2·3			75		49	−16	·285	—·090	0·7	—1·6	0	— 3·0	0	1·56	— 1·56	0·13	2·43	— 2·30	0	Purulia.
23	0	2	0	2	1	0	0	0	S 72° E		2·0			11		84	+ 9?	·345	—·029	0·6	—1·4	0	— 2·4	0·03	1·22	— 1·19	0·13	2·26	— 2·13	0·03	Daltonganj.
2	0	5	3	1	2	9	5	1	S 45° W	S 64° W	2·5	2·3	+0·2	29	+ 9	77	− 7	·349	—·041	2·5	+0·9?	0	— 1·3	0·02	0·63	— 0·61	0·06	1·18	— 1·12	0·02	Purnea.
0	0	0	1	2	0	13	11	1	S 62° W		3·9			75		54		·298		0·1		0		0	1·10	— 1·10	0·06	1·80	— 1·74	0	Monghyr.
21	0	3	0	0	2	0	2	0	N 45° W	N 89° W	1·7	2·7	−1·0	0	−31	70	− 9	·352	—·038	0·5	—1·2	0	— 1·3	0	0·55	— 0·55	0	1·13	— 1·13	0	Darbhanga.
6	0	1	3	3	2	6	7	0	S 32° W		2·8			36		75		·340		0·3		0		0	0·89	— 0·89	0·01	1·14	— 1·13	0	Pusa.
14	0	0	0	1	4	4	5	0	S 43° W	S 70° W	2·1	2·4	—0·3	36	−11	53	−10	·302	—·071	0·1	—2·4	0	— 1·5	0	0·73	— 0·73	0·13	1·38	— 1·25	0	Patna.
0	0	0	0	0	0	17	11	0	S 62° W		4·5			89		61	− 5	·303	—·045	1·0	—1·5	0	— 1·8	0	0·73	— 0·73	0·16	1·61	— 1·45	0	Buxar.
20	0	0	0	0	2	5	1	0	S 39° W	S 37° W	1·7	2·6	—0·9	29	− 6	49	−20	·286	—·096	0·4	—2·2	0	— 1·6	0	0·89	— 0·89	0	1·68	— 1·68	0	Gaya.
27	0	0	0	0	0	1	0	0	N 67° W		1·0			3		51	−14	·303	—·086	0·1	—1·8	0	— 1·9	0	0·72	— 0·72	0·12	1·33	— 1·21	0	Naya Dumka.
																														V.—United Provinces of Agra and Oudh.	
5	0	1	2	0	0	0	19	1	N 85° W	N 73° W	2·0	1·6	+0·4	60	+21	66	− 6	·301	—·056	0	—2·2	0	— 1·6	0	0·57	— 0·57	0	1·44	— 1·44	0	Gorakhpur.
8	0	0	0	2	1	13	3	1	S 46° W	S 52° W	2·4	2·8	—0·4	53	+19	59	−16	·313	—·060	0·3	—2·2	0	— 1·8	0	0·69	— 0·69	0·10	1·59	— 1·49	0	Benares.
10	0	0	0	0	0	3	14	1	S 86° W	S 81° W	2·6	3·3	—0·7	60	+36	54	−11	·286	—·064	2·1	—0·6	0	— 1·4	0	0·55	— 0·55	0·39	1·56	— 1·17	0	Allahabad.
5	0	0	0	0	0	5	11	7	N 86° W	N 81° W	2·3	2·8	—0·5	67	+43	59	−11	·290	—·030	0·1	—1·9	0	— 1·7	0	0·67	— 0·67	0·41	1·43	— 1·02	0	Cawnpore.
16	1	0	0	0	0	3	6	2	N 88° W	N 74° W	1·3	2·2	—0·9	34	+ 4	52	−17	·286	—·039	1·0	—1·8	0	— 1·4	0	0·63	— 0·63	0·27	1·77	— 1·50	0	Lucknow.
9	1	0	0	1	0	2	9	6	N 77° W	N 68° W	1·3	2·3	—0·4	49	+18	62	−15	·282	—·074	0·2	—1·9	0	— 2·2	0	0·98	— 0·98	0	2·31	— 2·31	0	Babraich.
10	2	3	0	0	0	7	6	0	S 85° W	S 81° W	2·6	1·8	+0·8	32	+ 9	53	− 3	·284	—·026	0·9	—0·7	1	— 0·2	0·18	0·47	— 0·29	0·27	1·34	— 1·07	0·18	Jhansi.
10	0	1	0	0	2	2	7	6	N 82° W	N 53° W	1·8	3·1	—1·3	42	+ 3	51	−12	·274	—·021	1·5	—1·1	0	— 0·9	0	0·49	— 0·49	1·00	1·33	— 0·33	0	Agra.
10	1	0	0	0	0	2	7	8	N 69° W	N 63° W	1·3	1·5	—0·2	53	+33	59	−11	·276	—·031	1·5	— 1·7	0	— 1·6	0	0·72	— 0·72	0·52	1·76	—1·24	0	Mainpuri.
17	1	0	0	0	0	1	7	2	N 79° W	N 51° W	0·9	2·3	—1·4	32	+ 6	70	− 5	·318	+·001	2·0	—0·9	0	— 1·8	0	0·93	— 0·93	0·39	2·32	— 1·93	0	Bareilly.
28	0	0	0	0	0	0	0	0	Calm	N 40° W	1·4	2·0	—0·6	(a)		75	− 4	·271	—·029	1·1	—1·7	0	— 2·7	0	1·53	— 1·53	0·80	3·80	— 3·00	0	Roorkee.
																														VI.—Punjab	
2	3	0	0	1	0	1	9	12	N 60° W	N 86° W	3·2	2·6	+0·6	70	+37	52	−11	·247	—·027	0·9	—2·5	0	— 1·6	0	0·80	— 0·80	0·52	2·31	— 1·78	0	Delhi.
4	2	2	2	1	1	7	5	4	S 87° W	S 76° W	4·0	3·0	+1·0	31	+27	61	−10	·248	—·028	2·3	—1·1	0	— 1·0	0·04	0·38	— 0·34	0·53	1·41	— 0·88	0·04	Hissar.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hr

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*contd.*																					
	Patiala	*818*	29·193	+·028	30·033	29·294	18th	29·107	26th	53·1	48·3	75·0	+3·8	48·7	+1·4	61·9	+2·6	26·3	80·6	14th	38·0	1st
	Ambala	892	29·113	+·029	30·035	29·211	18th	29·030	14th	52·8	47·3	76·8	+5·0	47·3	+0·4	62·1	+2·7	29·5	82·7	12th	37·3	1st
	Ludhiana	812	29·209	+·035	30·048	29·310	18th	29·129	26th	51·5	46·2	73·9	+3·3	48·2	+0·6	61·1	+1·9	25·7	76·9	23rd	41·0	6th
	Lahore	702	29·334	+·036	30·062	29·431	18th	29·247	26th	49·8	46·2	74·1	+2·0	45·8	+1·3	59·9	+1·7	28·3	79·2	9th & 22rd.	34·7	5th
	Sialkot	830	29·203	+·041	30·069	29·291	23rd	29·136	14th	49·7	46·8	71·6	+2·1	43·6	−2·3?	57·6	−0·1?	28·0	77·0	18th	34·7	5th
	Rawalpindi	1,674	28·363	+·051	30·117	28·466	23rd	28·285	7th	49·1	44·5	68·4	+3·6	41·3	+0·1	54·9	+1·9	27·1	74·1	19th	32·2	6th
12	Khushab	612	29·456	+·044	30·085	29·551	23rd	29·398	7th	52·5	45·8	73·6	+3·1	46·4	+0·7	60·0	+1·9	27·2	79·2	22nd	33·0	6th
	Lyallpur	605	29·445		30·065	29·536	18th	29·389	7th	51·2	47·2	73·7		44·3		59·0		29·4	78·2	19th	34·0	4th
	Montgomery	558	29·505	+·046	30·071	29·580	17th & 18th.	29·436	26th	54·8	48·4	75·8	+3·3	47·8	+2·1	61·3	+2·9	28·0	80·7	19th	35·3	3rd
	Multan	426	29·648	+·040	30·068	29·729	23rd	29·574	26th	54·8	48·8	76·7	+3·1	50·9	+3·5	63·8	+3·3	25·8	81·6	18th & 19th.	41·7	5th & 6th.
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·966	+·042	30·141	29·078	23rd	28·887	7th	48·2	43·2	69·9	+4·2	42·8	+0·3	56·3	+2·3	27·1	75·8	22nd	33·9	8th
	Dera Ismail Khan	590	29·567	+·048	30·113	29·585	18th & 23rd.	29·433	7th	52·2	46·9	73·7	+2·1	46·9	+2·6	60·2	+2·3	26·8	78·2	18th.	35·9	6th
	VIII.—Sind.																					
16	Jacobabad	186	29·896	+·041	30·053	29·972	5th & 18th.	29·805	26th	58·9	49·9	81·3	+3·5	51·9	+3·7	66·6	+3·6	29·4	85·9	17th & 27th.	35·0	6th
	Hyderabad	96	29·963	+·030	30·035	30·062	5th	29·902	27th	60·7	55·2	83·8	+3·3	55·0	+1·0	69·4	+2·1	28·8	92·9	11th	39·9	5th
	Karachi	13	30·069	+·042	30·052	30·173	5th	30·006	27th	65·4	60·8	76·9	−1·3	62·1	+0·6	69·5	−0·3	14·8	84·0	19th	50·7	5th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·285	+·053	30·067	29·360	21st	29·185	26th	56·8	47·9	81·1	+5·4?	51·1	−1·3?	66·1	+2·1?	30·0	86·6	11th	37·9	7th
	Jodhpur	780	29·273	+·043	30·054	29·333	10th	29·185	26th	59·4	48·5	83·6	+3·5	53·7	+0·7	68·7	+2·1	29·9	91·7	28th	41·2	5th
18	Jaipur	1,431	28·607	+·035	30·059	28·691	22nd	28·537	26th	60·3	49·3	81·5	+5·5	53·3	+1·9	67·4	+2·7	28·2	88·0	27th	42·0	8th
	Ajmer	1,611	28·437	+·042	30·082	28·509	22nd	28·358	26th	56·3	48·6	78·9	+1·6?	51·1	+1·5	65·0	+1·5?	27·8	86·2	28th	40·2	7th
	Kotah	832	29·216	+·036	30·039	29·286	22nd	29·126	26th	64·7	54·5	84·2	+2·7	56·2	+1·1	70·2	+1·9	28·0	90·8	27th	45·6	7th
	X.—Bombay.																					
19	Deesa	466	29·605	+·053	30·050	29·673	17th	29·530	27th	61·0	52·0	88·4	+2·2	53·2	−1·3	70·8	+0·5	35·2	97·8	28th	43·3	8th
	Bhuj	334	29·742	+·044	30·042	29·794	10th	29·664	27th	64·9	57·4	84·9	+1·2	52·9	−4·6?	68·9	−1·7?	32·0	95·0	27th & 28th.	29·3	6th
	Jamnagar	61	30·024	+·023	30·033	30·090	17th	29·956	27th	62·7	57·8	83·0	+0·9	56·4	+0·6	70·0	+0·7	26·6	90·7	26th & 28th.	43·3	6th
	Dwarka	37	30·059	+·029	30·042	30·169	17th	29·987	27th	67·8	63·4	78·6	+0·5	63·2	+1·2	70·9	+0·9	15·4	88·7	11th	53·1	6th
	Rajkot	429	29·631	+·028	30·030	29·692	17th	29·559	27th	62·8	54·5	87·2	+0·6	51·7	−2·3	69·5	−0·9	35·5	95·3	28th	38·5	6th
	Veraval	*18*	30·051	+·040	30·013	30·119	17th	29·978	27th	65·0	56·1	82·2	+0·7	60·2	−0·4	71·2	+0·1	22·0	91·1	26th	52·6	4th
	Bhavnagar Para	55	30·013	+·032	30·015	30·069	17th	29·931	27th	65·8	58·0	88·3	+1·7	57·6	−0·3	72·9	+0·7	30·7	97·8	27th	46·0	6th
	Surat	39	30·031	+·041	30·014	30·107	17th	29·970	27th	66·0	58·3	90·4	+0·8	60·1	+1·0	75·2	+0·9	30·3	97·1	11th	50·9	6th
	Ahmadabad	163	29·909	+·040	30·027	29·970	17th	29·846	27th	68·9	57·5	89·4	+2·0	60·1	+0·6	74·8	+1·3	29·3	97·8	28th	48·6	5th
25	Bombay	37	30·008	+·027	29·986	30·079	17th	29·933	27th	71·4	65·2	83·5	+0·7	69·1	+0·7	76·3	+0·7	14·4	88·2	11th	61·3	6th
	Ratnagiri	207	29·811	+·022	29·960	29·863	17th	29·752	27th	76·5	65·6	86·7	+0·7	68·8	+1·7	77·7	+1·2	17·9	94·9	11th	64·9	6th
	Marmagao	*60*	29·961	+·022	29·957	30·018	12th	29·908	26th	73·2	70·4	85·5	+0·7	70·4	−0·4	78·0	+0·1	15·1	88·5	22nd	67·0	14th
	Karwar	44	29·994	+·038	29·975	30·042	13th	29·943	26th	68·9	66·7	87·5	+1·5	66·4	−0·6	76·9	+0·5	21·1	91·7	25th	61·5	14th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

t 214 stations in India, etc., in February, 1918—*continued.*

WIND DIRECTION. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	STATION.
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	54	55
																														VI.—Punjab—*concld.*
2	8	2	0	0	0	0	11	N 33° W		4·7			71		69	− 6	·232	−·013	3·2	−0·4	0	−2·3	0	1·44	−1·44	0·79	3·19	−2·40	0	Patiala.
5	12	1	1	0	0	0	7	N 15° W	N 39° W	4·1	1·7	+2·4	67	+42	63	−17	·265	−·041	2·7	−1·3	0	−3·4	0	1·91	−1·91	1·14	4·12	−2·98	0	Ambala.
24	1	1	0	0	0	0	1	N 28° W	N 52° W	1·4	1·4	0	7	−21	64	−12	·246	−·046	1·8	−2·0?	0	−2·6	0	1·39	−1·39	0·39	3·90	−3·51	0	Ludhiana.
20	2	2	0	0	0	0	4	N 18° W	N 23° W	1·5	1·6	−0·1	20	+11	74	− 5	·272	−·017	3·4	−0·2	1	−1·2	0·13	1·00	−0·87	0·28	2·47	−2·19	0·12	Lahore.
13	1	2	0	1	0	3	7	4	N 3° W	N 18° E	1·0	1·3	−0·3	25	+11	80	+ 3	·286	−·007	3·4	+0·4	1	−2·1	0·29	1·29	−1·40	1·09	4·55	−3·46	0·26	Sialkot.
14	3	0	0	0	0	2	5	3	N 65° W	N 45° W	2·8	1·7	+1·1	35	+12	68	−11	·239	−·011	4·5	+0·3	1	−2·8	0·25	2·35	−2·00	4·05	6·00	−1·15	0·24	Rawalpindi.
24	1	1	1	0	0	0	0	1	N 23° E	N 29° E	1·5	2·4	−0·9	7	− 4	55	−11	·227	−·016	3·6	+0·5	1	−1·0	0·26	0·95	−0·73	0·68	2·21	−1·53	0·20	Khushab.
8	1	5	0	1	3	3	11	6	N 17° W		1·7			14		72		·281			4·7		6	−1·5	0·06	0·69	−0·63	0·12	1·38	−1·26	0·03	Lyallpur
11	5	1	2	5	0	0	13	3	N 36° E	N 18° E	2·7	5·1	−2·4	18	+ 2	59	− 5	·261	+·012	3·1	−0·2	0	−1·4	0·05	0·51	−0·46	0·26	1·44	−1·18	0·04	Montgomery.
13	9	4	0	2	0	0	0	0	N 2° E	N 37° E	0·5	1·3	−0·8	33	+19	61	− 4	·268	+·005	3·9	+0·9	0	−1·4	0·08	0·38	−0·30	0·14	1·01	−0·90	0·06	Multan.
																														VII.—North West Frontier Province.	
18	0	0	0	1	6	2	0	1	S 71° W	S 27° W	1·2	2·3	−1·1	25	−14	62	−10	·218	−·023	4·0	−0·4	0	−3·1	0·19	1·44	−1·25	1·44	3·52	−2·08	0·06	Peshawar.
23	1	0	0	1	0	0	0	3	N 31° W	N 22° W	0·8	1·4	−0·5	7	−17	64	− 5	·259	+·010	4·3	+1·0	2	+0·3	0·46	0·71	−0·25	0·62	1·43	−0·81	0·20	Dera Ismail Khan.
																														VIII.—Sind.	
19	0	2	1	3	0	0	0	3	N 89° E	N 87° E	1·0	2·2	−1·2	7	−13	47	− 9	·245	0	2·6	−0·4	0	−1·1	0	0·35	−0·35	0·02	0·77	−0·75	0	Jacobabad.
8	13	0	0	0	3	3	1	0	N 22° W	N 21° W	2·7	5·0	−2·3	29	−11	67	+11	·370	+·083	0·6	−1·9	0	−0·7	0	0·30	−0·30	0·15	0·58	−0·43	0	Hyderabad.
8	4	7	1	0	0	0	1	1	N 4° W	N 39° E	3·0	4·2	−1·2	12	−17	74	+ 8	·487	+·069	2·6	+0·3	0	−1·0	0	0·44	−0·44	0	1·13	−1·13	0	Karachi.
																														IX.—Rajputana.	
6	0	2	8	6	3	2	0	1	S 61° E	N 39° W	2··	3·3	−0·3	46	+22	47	− 5	·221	−·014	1·6	−1·5	0	−0·8	0	0·31	−0·31	0·09	0·86	−0·77	0	Bikaner.
12	1	12	1	0	1	1	0	0	N 48° E		3·0			42		40	− 2	·205	−·001	2·3	−0·1	0	−0·6	0	0·20	−0·20	0·10	0·48	−0·38	0	Jodhpur.
7	3	3	4	1	0	0	2	6	N 11° E	N 2° W	3·1	2·8	+0·3	36	+ 5	40	−13	·210	−·046	2·1	−0·9	0	−0·7	0	0·32	−0·32	0·23	1·00	−0·77	0	Jaipur.
23	0	2	1	0	0	1	1	0	N 4° E	N 2° W	1·1	1·8	−0·7	4	− 7	55	− 7	·251	−·019	1·2	−1·3	0	−0·8	0	0·28	−0·28	0·25	0·96	−0·71	0	Ajmer.
23	1	1	0	0	0	0	1	2	N 29° W		1·6			14		48	+ 1	·292	+·041	1·7	−0·2	0	−0·5	0	0·36	−0·36	0	0·91	−0·91	0	Kotah.
																														X.—Bombay.	
9	1	7	9	1	0	1	0	0	N 72° E	N 30° E	5·0	6·3	−1·3	53	+17	51	+10	·283	+·051	1·0	−0·9	0	−0·4	0	0·15	−0·15	0	0·32	−0·32	0	Deesa.
26	2	0	0	0	0	0	0	0	N	N 89° W	2·8	5·3	−2·5	7	−28	61	0	·376	−·005	0·7	−0·8	0	−0·4	0	0·16	−0·16	0	0·26	−0·26	0	Bhuj.
8	0	0	6	1	3	5	4	0	S 6° W		2·2			26		73	+10	·422	+·046	0·9	−0·3	0	−0·3	0	0·13	−0·13	0	0·21	−0·21	0	Jamnagar.
0	18	5	0	0	0	0	1	9	N 9° W		7·7			85		77	+ 7	·532	+·038	1·9	−0·1	0	−0·7	0	0·39	−0·39	0	0·48	−0·48	0	Dwarka.
13	3	3	0	1	0	0	4	4	N 29° W	N 2° W	3·7	4·5	−0·8	32	+ 1	56	0	·322	−·015	2·9	+1·6?	0	−0·3	0	0·11	−0·11	0·01	0·19	−0·18	0	Rajkot.
2	15	3	0	0	0	0	0	7	N 7° W	N 7° E	5·6	5·2	+0·4	78	+ 6	55	− 2	·340	−·040	0·7	−0·8	0	−0·1	0	0·05	−0·05	0	0·16	−0·16	0	Veraval.
1	3	1	0	2	0	1	5	15	N 50° W	S 85° W	3·7	5·9	−2·2	67	+ 2	60	+ 8	·388	+·061?	1·2	−0·3	0	−0·3	0	0·10	−0·10	0	0·21	−0·21	0	Bhavnagar Para.
4	9	6	3	1	1	0	0	4	N 20° E	N 27° W	2·4	3·7	−1·3	53	+10	61	− 1	·388	−·021	1·4	+0·4	0	−0·2	0	0·07	−0·07	0	0·17	−0·17	0	Surat.
1	6	10	1	0	0	0	0	10	N 3° E	N 11° E	3·5	2·9	+0·6	70	+12	45	0	·332	+·034	1·0	−0·6	0	−0·3	0	0·10	−0·10	0	0·15	−0·15	0	Ahmadabad.
0	11	9	5	2	0	0	0	1	N 36° E	N 47° E	6·8	7·6	−0·8	74	+ 3	71	0	·551	−·010	0·8	−0·5	0	−0·1	0	0·04	−0·04	0	0·18	−0·18	0	Bombay.
1	3	8	7	6	3	0	0	0	N 86° E	N 73° E	6·4	6·0	+0·4	60	+20	53	−12	·486	−·039	0·7	−0·2	0	−0·1	0	0·02	−0·02	0·01	0·21	−0·20	0	Ratnagiri.
4	4	6	8	6	0	0	0	0	N 76° E	N 80° E	4·7	6·8	−2·1	56	+ 8	86	+ 4	·709	+·027	2·1	+1·0	0	−0·1	0	0·02	−0·02	0	0·24	−0·24	0	Marmagao.
19	9	0	0	0	0	0	0	0	N	N 55° E	1·7	3·0	−1·3	32	−51	89	+ 6	·633	+·029	0·4	−0·4	0	0	0	0·01	−0·01	0	0·31	−0·31	0	Karwar.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay —*concld.*																					
26	Malegaon	1,339	28·613	+·043	30·042	28·662	10th	28·546	5th	63·7	51·2	91·8	+2·1	25·0	+0·2	73·4	+1·1	36·8	98·4	27th	45·3	6th
	Ahmadnagar	2,154	27·837	+·034	30·005	27·952	10th	27·818	5th	67·4	54·3	88·7	+0·4	57·3	+2·2	73·0	+1·3	31·4	96·6	25th	51·8	6th
	Poona	1,846	28·184	+·027	30·014	28·252	10th	28·110	5th	65·3	56·2	90·6	−0·3	56·4	+0·2	73·5	−0·1	34·2	97·8	28th	51·5	6th
	Sholapur	1,590	28·434	+·030	29·982	28·491	10th	28·366	6th	72·5	57·3	90·9	−2·3	63·5	+1·3	77·2	−0·5	27·4	97·5	26th	57·7	1st
	Bijapur	*1,948*	28·084	+·044	29·982	28·149	10th	28·013	6th	71·9	56·5	89·3	−1·7	63·5	−0·1	76·4	−0·9	25·8	95·6	28th	56·6	1st
	Belgaum	2,562	27·495	+·045	30·004?	27·551	13th	27·423	6th	67·3	53·6	86·7	−1·6	58·8	−0·6	72·7	−1·1	27·9	93·0	28th	55·1	5th
	XI.—Central India.																					
20	Neemuch	1,626	28·425	+·043	30·056	28·591	10th	28·368	26th	62·9	51·7	83·3	+2·7	52·9	+1·3	68·1	+2·0	30·4	91·4	28th	42·0	7th
	Indore	1,823	28·212	+·037	30·023	28·234	10th	28·148	5th	65·4	54·2	85·8	+3·0	54·1	+2·2	69·9	+2·6	31·7	93·1	28th	45·1	7th
21	Nowgong	754	29·285	+·027	30·043	29·378	18th	29·200	27th	54·8	49·9	81·9	+2·4	49·2	−1·6	65·5	+0·4	32·7	89·5	26th	37·9	7th
	Sutna	1,041	28·998	+·041	30·047	29·094	17th	28·906	26th	59·3	50·9	81·7	+2·6	52·1	0	66·9	+1·3	29·6	88·8	28th	39·8	7th
	XII.—Central Provinces.																					
22	Buldana	2,134								72·1	55·5	87·2	+1·3	63·4	+1·5	75·3	+1·4	23·8	93·2	28th	57·1	6th
	Akola	925	29·112	+·040	30·013	29·167	17th	29·044	5th	69·1	56·6	92·8	+2·3	58·7	+1·6	75·8	+1·9	34·1	98·6	26th	51·3	6th
	Amraoti	1,215	28·814	+·036	29·959?	28·939	22nd	28·730	5th	71·2	56·3	91·1	+1·4	63·6	+1·9	77·3	+1·7	27·5	96·6	28th	56·5	16th
23	Khandwa	1,041	29·003	+·048	30·024	29·054	10th	28·929	5th	65·5	54·7	90·4	+1·9	58·4	+2·8	74·4	+2·3	32·0	95·2	26th	48·4	7th
	Hoshangabad	1,006	29·041	+·037	30·041	29·114	16th	28·973	26th	63·1	55·0	87·2	+2·1	55·3	−0·1	71·3	+1·0	31·9	93·5	28th	46·4	7th
	Saugor	1,807	28·213	+·021	30·021	28·280	17th	28·152	26th	63·5	50·9	82·8	+2·3	57·7	+2·5	70·2	+2·4	25·1	90·0	28th	47·6	6th
	Jubbulpore	1,327	28·638	+·035	30·037	28·780	10th	28·622	26th	59·1	51·5	82·2	+0·5	52·3	+0·3	67·3	+0·4	29·9	89·1	28th	41·9	7th
	Seoni	2,033	28·005	+·048	30·028	28·079	17th	27·923	5th	65·4	53·9	84·4	+0·8	56·8	+2·0	70·6	+1·4	27·6	89·6	13th	48·7	1st
	Nagpur	1,017	29·010	+·031	30·006	29·083	10th	28·922	27th	68·4	57·1	90·0	+1·2	59·4	−0·2	74·7	+0·5	30·6	95·6	28th	52·3	1st
24	Pendra	2,010	27·993	+·056	30·037	28·091	17th	27·914	26th	62·1	52·8	81·8	+3·6	55·5	+1·6	68·7	+2·6	26·3	87·2	13th	46·3	7th
	Raipur	970	29·052	+·025	30·000	29·145	17th	28·972	26th	68·0	59·5	87·5	+1·0	59·6	−0·5	73·4	+0·3	27·9	93·5	28th	51·8	1st
	Chanda	*634*	29·399	+·029	29·998	29·479	10th	29·321	27th	69·5	60·9	91·6	+0·5	58·5	−0·6	75·0	−0·1	33·1	97·3	28th	50·6	11th
	Jagdalpur	1,813	28·211		30·008	28·285	18th	28·141	6th	63·9	58·3	86·5		54·3		70·4		32·2	92·8	28th	44·3	1st
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·137	+·029	30·001	28·214	10th	28·058	5th	71·6	56·0	89·8	+0·9	62·3	+1·2?	76·0	+2·5?	27·5	97·2	28th	53·1	7th
	Nizamabad	1,248	28·779		29·998	28·853	10th	28·722	27th	71·2	60·8	92·0	+1·3	61·0	0	76·5	+0·7	31·0	98·1	28th	52·4	1st
	Bidar	*2,165*								74·9	66·5	89·8	+1·4	62·8	−1·5	76·3	−0·1	27·0	95·5	28th	57·0	2nd
28	Gulbarga	1,503	28·519	+·032	29·988	28·578	10th	28·453	5th	71·7	60·3	91·9	−0·6	63·4	−0·5	77·7	−0·5	28·5	98·0	28th	56·0	1st
	Raichur	*1,311*	28·727	+·068?	29·996	28·788	10th	28·663	6th	73·4	62·9	91·0	−1·2	67·5	−0·7	79·4	−0·9	23·5	96·8	28th	61·3	1st
	Hyderabad (Deccan)	1,738	28·318	+·048	30·000	28·386	18th	28·246	6th	70·0	62·6	87·2	−3·0	62·6	−1·4	74·9	−2·2	24·6	94·4	28th	55·1	1st
	Hanamkonda	877	29·170	+·055	30·008	29·240	10th	29·097	27th	73·3	64·9	89·8	−0·3	65·8	−0·3	77·8	−0·3	24·0	97·8	28th	59·9	1st
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·630	+·026	29·964	27·693	13th	27·564	6th	70·8	59·3	86·3	−3·2	62·5	−2·2	75·0	−2·7	22·8	88·9	15th	58·2	2nd
	Hassan	3,149	26·930	+·040	29·925	26·973	13th	26·867	6th	65·4	59·1	84·7	−2·0	57·0	−0·9	70·8	−1·5	27·7	89·8	28th	50·7	2nd
	Bangalore	3,021	27·060	+·041	30·002	27·108	13th	27·001	6th	65·1	58·2	84·5	−1·5	57·2	−2·8	70·8	−2·1	27·3	89·4	28th	52·8	13th
	Mysore	2,518	27·515	+·014	29·997	27·588	13th	27·490	6th	68·9	60·8	86·4	−2·6	60·6	−2·9	73·5	−2·7	25·8	91·9	28th	56·0	2nd & 13th.

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 214 stations in India, etc., in February, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*concld.*
9	0	0	0	0	0	11	13	1	S 72° W	N 68° W	3·9	4·5	−0·6	78	+ 7	38	− 8	·225	−·060	1·6	+0·3	0	−0·2	0·05	0·07	−0·02	0·05	0·42	−0·37	0·05	Malegaon.
18	2	0	0	2	1	0	1	9	N 45° W	N 13° W	3·5	6·1	−2·6	29	− 6	39	−11	·258	−·060	0·6	−0·4	0	−0·3	0·03	0·15	−0·12	1·89	0·75	+1·14	0·03	Ahmadnagar.
16	2	1	0	0	0	1	5	3	N 60° W	N 76° W	4·5	5·2	−0·7	29	+13	55	+ 4	·342	+·041?	0·7	−0·3	0	−0·1	0	0·04	−0·04	0·22	0·27	−0·05	0	Poona.
2	0	4	2	12	2	1	0	5	S 62° E	N 72° E	5·9	5·5	+0·4	36	+20	36	− 2	·285	−·007	0·8	−0·3	0	−0·1	0	0·05	−0·05	0·11	0·70	−0·59	0	Sholapur.
3	9	0	2	1	11	1	0	1	S 26° E	N 79° W	3·3	3·5	−0·2	11	−11	45	− 8	·353	−·054	0·5	−0·7	0	−0·2	0	0·06	−0·06	0·04	0·41	−0·37	0	Bijapur.
17	2	0	5	4	0	0	0	0	S 84° E	N 68° E	6·5	7·1	−0·6	29	+ 5	58	+10	·383	+·043	1·5	+0·2	0	−0·1	0	0·03	−0·03	1·03	0·56	+0·52	0	Belgaum.
																															XI.—Central India.
17	1	1	5	0	0	0	4	0	N 45° E	N 30° E	4·3	5·1	−0·8	11	−20	43	− 4	·257	+·011	1·0	−0·8	0	−0·4	0	0·20	−0·20	0	0·60	−0·60	0	Neemuch.
21	2	3	0	0	1	0	0	1	N 21° E	N 29° W	1·7	2·0	−0·3	14	+ 2	45	− 4	·289	+·011	1·2	−0·5	0	−0·5	0	0·17	−0·17	0	0·53	−0·53	0	Indore.
8	0	1	3	4	1	2	4	5	S 67° W	N 85° W	1·4	1·5	−0·1	7	−12	63	− 2	·276	−·043	2·6	−0·2	1	−0·1	0·20	0·51	−0·31	0·25	1·60	−1·35	0·20	Nowgong.
9	0	0	1	1	6	7	4	0	S 32° W	N 30° W	2·1	3·5	−1·4	49	+14	52	− 7	·268	−·034	0·9	−1·7	0	−1·7	0·02	0·74	−0·72	0·68	2·01	−1·33	0·02	Sutna.
																															XII.—Central Provinces.
1	1	1	5	3	1	2	7	7	N 68° W		4·3	4·7	−0·4	18		34		·265		2·0		0	−0·5	0	0·26	−0·26	0·12	1·10	−0·98	0	Buldana.
11	0	4	5	1	1	3	2	1	S 85° E	S 34° E	2·7	3·1	−0·4	13	+ 5	41	− 2	·300	+·022	2·3	+0·6	0	−0·4	0·08	0·24	−0·16	0·21	1·25	−1·04	0·05	Akola.
16	0	6	3	3	0	0	0	0	N 77° E	S 83° E	3·0	3·5	−0·5	32	0	35	−11	·263	−·061	1·4	−0·1	0	−0·6	0·04	0·29	−0·25	0·07	1·24	−1·17	0·01	Amraoti.
6	1	2	4	2	1	2	7	3	N 75° W	N 18° W	3·3	3·0	+0·3	14	−10	45	+ 2	·286	+·036	1·0	−0·4	0	−0·3	0	0·12	−0·12	0·04	0·64	−0·60	0	Khandwa.
18	0	5	2	3	0	0	0	0	N 79° E	N 60° E	1·1	2·1	−1·0	29	−11	57	+ 2	·335	+·033	1·6	−0·2	1	+0·1	0·19	0·34	−0·15	0·20	1·06	−0·86	0·19	Hoshangabad.
10	0	6	3	3	1	2	2	1	N 85° E	S 72° E	4·2	2·7	+1·5	19	−12	37	−10	·223	−·033	1·7	−0·1	1	−0·1	0·14	0·42	−0·28	0·14	1·45	−1·31	0·14	Saugor.
5	2	2	3	11	1	0	1	3	S 71° E	S 63° E	1·5	1·8	−0·3	32	+12	57	− 8	·227	−·016	1·0	−1·0	0	−1·6	0	0·81	−0·81	0·96	1·78	−0·82	0	Jubbulpore.
25	2	1	0	0	0	0	0	0	N 15° E	N 31° E	1·4	2·1	−0·7	11	−25	41	−13	·274	−·060	1·5	−0·6	1	−0·9	0·49	0·86	−0·39	0·49	1·94	−1·45	0·47	Seoni.
7	6	4	3	1	0	0	0	7	N 7° E	N 18° E	3·2	3·2	0	46	+10	46	− 4	·318	−·017	2·2	+0·1	1	−0·2	0·15	0·52	−0·37	0·31	1·45	−1·14	0·11	Nagpur.
12	4	2	2	0	1	1	1	5	N 14° W		3·4			25		50	− 6	·231	−·021	1·1	−1·1	3	−0·4	1·50	1·80	−0·30	1·88	2·80	−0·92	0·89	Pendra.
2	0	5	9	2	2	5	3	0	S 65° E	N 4° W	2·0	2·9	−0·9	25	+13	49	− 6	·338	−·020	0·6	−1·5	0	−1·3	0	0·75	−0·75	0·95	1·23	−0·28	0	Raipur.
1	7	8	3	5	0	1	1	2	N 43° E	N 76° E	2·4	2·0	+0·4	49	+29	59	+ 1	·424	+·023	2·4	+0·8	1	+0·1	0·15	0·69	−0·54	0·22	1·20	−0·98	0·15	Chanda.
26	0	0	0	0	2	0	0	0	S		0·5			7		71		·423		0·9		0		0	0·88	−0·88	1·53	1·36	+0·17	0	Jagdalpur.
																															XIII.—Hyderabad.
8	0	4	8	4	1	2	1	0	S 78° E		5·1			39		33	− 5	·252	−·030	1·9	+0·9	0	−0·3	0	0·14	−0·14	0	0·71	−0·71	0	Aurangabad.
10	3	6	2	2	4	0	0	1	N 69° E		1·8			25		52	− 3	·397	−·043	1·3	0	0	−0·7	0	0·53	−0·53	0·14	0·79	−0·65	0	Nizamabad.
0	0	0	0	4	3	15	0	6	S 45° W					61		63	+ 5	·548	+·070?	1?		0	−0·6	0·08	0·27	−0·19	0·45	0·75	−0·30	0·08	Bidar.
0	1	4	3	7	12	1	0	0	S 36° E	N 89° E	3·0	5·6	−2·6	60	+34	49	− 1	·382	−·022	0·2	−0·7	0	−0·5	0	0·17	−0·17	0·02	0·53	−0·51	0	Gulbarga.
3	0	2	5	12	4	1	0	1	S 51° E	S 23° E	5·0	5·1	−0·1	60	+29	54	+ 1	·438	−·011	1·5	+0·3	0	−0·4	0	0·23	−0·23	0·10	0·50	−0·40	0	Raichur.
13	0	0	0	10	2	3	0	0	S 23° E	S 68° E	2·7	3·0	−0·3	42	+33	65	0	·474	+·001	0·7	−1·1	0	−0·7	0	0·30	−0·30	0·89	0·65	+0·15	0	Hyderabad (Deccan).
2	2	0	0	11	12	0	0	1	S 22° E		3·2			67		62	− 5	·504	−·021	1·3	−1·4	0	−0·5	0	0·34	−0·34	0·69	0·90	−0·21	0	Hanamkonda.
																															XIV.—Mysore.
8	1	0	5	9	3	1	1	0	S 47° E	S 6° E	4·6	4·6	0	49	+33	48	− 5	·360	−·078	0·9	−0·6	0	−0·2	0	0·08	−0·08	4·20	0·57	+3·63	0	Chitaldrug.
8	0	0	8	8	0	0	2	2	S 68° E	S 72° E	3·1	2·0	+1·1	39	−12	69	0	·432	−·051	3·3	+0·5	0	−0·3	0	0·12	−0·12	0·52	0·96	−0·44	0	Hassan.
0	0	1	18	6	2	1	0	3	S 74° E	S 62° E	5·7	3·7	+2·0	82	+27	65	− 6	·401	−·083	1·3	−0·6	1	+0·8	0·30	0·16	+0·14	1·18	0·87	+0·31	0·30	Bangalore.
0	0	11	10	0	1	3	3	0	N 70° E	S 39° E	5·8	5·8	−0·2	49	+27	62	− 7	·439	−·060	0·9	−2·2	0	−0·5	0	0·12	−0·12	0·13	0·64	−0·51	0	Mysore.

Table

(2) Abstract of observations taken at 8 hr

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs. in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·961	+·031	29·968	30·007	14th	29·911	5th	77·9	70·4	88·9	+0·4	71·6	+0·1	80·2	+0·3	17·3	93·4	11th	67·2	2nd
	Calicut	27	30·007	+·042	29·964	30·056	13th	29·955	27th	75·7	71·3	86·8	−1·6	71·5	−1·3	79·1	−1·5	15·3	89·3	27th	66·3	13th
	Cochin	9	30·020	+·039	29·956	30·067	13th	29·956	6th	75·6	69·2	88·7	−1·5	72·1	−1·9	80·5	−1·7	16·6	92·7	8th	67·9	15th
	Trivandrum	198	29·835	+·060?	29·967	29·894	13th	29·787	4th	73·0	67·9	84·1	−1·2	69·8	−4·2	77·0	−2·7	14·3	86·0	20th	65·6	15th
31	Pamban	37	30·003	+·034	29·968	30·067	13th	29·946	7th	77·6	74·0	83·2	−1·5	72·7	−1·9	77·9	−1·7	10·5	84·5	28th	71·0	20th
	Madura	447	29·695	+·042	29·993	29·869	17th	29·549	20th	73·9	67·4	88·7	−3·2	67·0	−2·9	77·9	−3·1	21·7	93·0	17th	62·6	12th
	Pudukkottai	318	29·744	+·064?	30·001	29·799	13th	29·691	20th	72·8	67·5	88·2	−3·3	66·1	−3·0	77·2	−3·1	22·1	94·1	16th	61·9	3rd
	Negapatam	31	30·023	+·045	29·984	30·077	13th	29·957	5th	74·0	69·7	83·5	−1·3	70·1	−2·6	76·9	−1·9	13·4	85·8	27th	64·2	2nd
	Trichinopoly	255	29·812	+·051	30·005	29·864	17th	29·745	20th	73·2	67·3	90·7	−1·6	65·2	−3·6	78·0	−2·6	25·5	96·3	16th.	60·2	14th
	Coimbatore	1,341	28·717	+·053	30·013	28·777	11th	28·625	20th	71·6	65·2	89·4	−2·3	62·1	−3·8	75·7	−3·1	27·3	94·0	28th	56·9	3rd
	Salem	913	29·147	+·056	30·018	29·203	11th	29·091	26th	70·5	65·2	90·6	−3·0	63·0	−3·2	76·8	−3·1	27·6	95·9	28th	56·7	14th
	Cuddalore	37	30·026	+·047	29·994	30·077	12th	29·976	20th	70·9	67·5	84·0	−1·7	65·5	−4·4	74·8	−3·1	18·5	91·1	16th	58·2	12th
	Vellore	707	29·354	+·042	30·022	29·412	18th	29·295	27th	67·1	63·6	86·3	−2·7	61·3	−5·4	73·8	−4·1	25·0	92·6	28th	56·8	13th
	Madras	22	30·045	+·044	29·997	30·104	17th	29·992	27th	73·4	70·5	85·4	−1·4	66·2	−2·3	75·8	−1·9	19·2	94·4	16th	60·8	15th
32	Cuddapah	423	29·614	+·041	29·988	29·685	18th	29·539	27th	74·7	67·7	91·4	−3·6	66·7	−2·6	79·0	−3·1	24·7	99·3	28th	62·3	13th
	Bellary	1,475	28·555	+·041	29·934	29·612	10th & 12th	28·496	27th	73·9	63·4	91·6	−2·6	64·0	−1·9	77·8	−2·3	27·6	97·5	28th	58·7	3rd & 13th
	Kurnool	923	29·117	+·052	30·001	29·177	12th	29·053	27th	71·3	63·4	92·2	−1·9	63·6	−1·3	77·9	−1·6	28·6	98·9	28th	55·0	1st
33	Nellore	66	29·990	+·041	29·992	30·058	18th	29·914	27th	73·3	69·4	87·1	−3·0	67·5	−1·8	77·3	−2·4	19·6	95·2	16th	63·2	3rd
	Masulipatam	15	30·057	+·041	30·005	30·131	18th	29·982	27th	72·5	70·1	85·0	−1·7	65·8	−2·8	75·4	−2·5	19·2	91·8	14th	60·7	1st
	Cocanada	26	30·049	+·046	30·001	30·131	18th	29·983	27th	72·8	68·6	85·2	−0·4	67·3	−2·4	76·2	−1·4	17·9	94·6	15th	59·6	1st
	Waltair (Vizagapatam)	226	29·831	+·036	30·004	29·931	18th	29·760	27th	73·6	68·3	83·5	−0·1	67·9	−3·2	75·7	−1·7	15·6	87·4	15th	60·6	1st
	Calingapatam	19	30·054		30·001	30·134	18th	29·963	26th	68·3	64·7	87·5		63·7		75·6		23·8	91·4	14th	54·9	1st
	Gopalpur	33	30·000	+·040	29·958	30·102	17th	29·910	26th	69·0	62·9	82·5	−0·7	63·8	−3·5	73·2	−2·1	18·7	90·0	16th	54·3	1st
	Bay Islands.																					
1	P. V. Fraser	8	30·037		29·992	30·125	10th	29·933	26th	76·5	71·6											
	Port Blair	58	29·969	+·040	29·958	30·054	23rd	29·899	6th	76·5	71·8	85·1	−2·8	72·1	−3·0	78·6	−2·9	13·0	87·8	26th	68·5	6th
	Table Island		29·932	+·032	29·957	29·982	23rd	29·866	6th	76·0	69·9	82·2	−2·2	73·6	−1·7	77·9	−1·9	8·6	85·2	19th	70·4	6th
	Kashmir.																					
13	Muzaffarabad		27·693			27·762	23rd	27·586	7th	50·1	43·8	65·5		‡43·9		55·7‡		21·6	73·8	17th	40·3	20th
	Srinagar	5,204	25·009	+·056	24·980	25·098	22nd	24·917	4th	35·2	36·0*	45·4	+1·9	31·9	+3·5	38·6	+2·7	13·5	55·4	22nd	24·1	2nd
	Gulmarg	*8,569*																				
	Dras	*10,959*	20·818	+·060	20·786	20·986	17th	20·633	4th	−0·6		19·9	−3·2	−10·8	0	4·4	−1·6	30·7	33·0	27th	−31·8	1st
	Leh	*11,503*	19·654	+·030	19·622	19·814	22nd	19·446	4th	19·1		37·5	+5·0	12·9	+3·1	25·2	+4·1	24·6	48·9	26th	2·4	6th
	Skardu	*7,505*	22·832	+·012	22·802	23·087	9th	22·756	4th	28·3		43·9	+5·7	25·0	+6·2	34·4	+5·9	18·9	51·6	28th	16·1	6th
	Gilgit	4,890	25·276	+·062	25·249	25·443	22nd	25·111	26th	42·0	36·4†	55·8	+4·4	36·5	0	46·2	+2·2	19·3	63·2	28th	28·7	6th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 19 days. †Mean of 22 days. ‡ Mean of 13 days.

NOTE.—The barometric readings are not reduced to sea level in the case of

B—*continued.*

at 214 stations in India, etc., in February, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
29	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	54	55
																															XV.—Madras.
0	1	3	21	3	0	0	0	0	N 88° E	N 76° E	4·8	2·1	+2·7	88	+21	67	— 5	·649	—·033	1·7	—0·4	0	—0·1	0	0·02	— 0·02	0·02	0·59	—0·57	0	Mangalore.
8	1	8	7	3	0	0	1	0	N 72° E	N 69° E	4·3	7·2	—2·9	54	—14	80	+ 1	·711	—·031	0·9	—1·0	0	—0·2	0	0·17	— 0·17	0·35	1·69	— 1·34	0	Calicut.
0	0	9	18	1	0	0	0	0	N 77° E	N 41° E	4·3	4·0	+0·3	92	+21	71	— 4	·632	—·102	1·2	—0·6	1	—0·2	0·27	0·88	— 0·59	4·00	3·18	+ 0·82	0·27	Cochin.
6	1	14	5	2	0	0	0	0	N 60° E	N 55° E	3·7	3·4	+0·3	63	+16	75	— 2	·612	—·101	1·7	—0·3	1	—0·2	0·77	0·63	+ 0·14	7·20	3·65	+ 3·54	0·70	Trivandrum.
0	8	12	4	0	0	0	0	4	N 27° E	N 56° E	8·2	6·6	+1·6	78	+ 3	84	+ 4	·792	—·009?	3·3	+0·2	3	+1·7	0·70	0·82	— 0·12	9·90	10·22	— 0·32	0·50	Pamban.
0	7	7	2	0	0	0	5	7	N 10° W	N 14° E	4·6	3·3	+1·3	60	— 3	70	— 6	·537	—·117	3·8	+0·9	0	—0·8	0	0·40	— 0·40	5·22	2·66	+ 3·56	0	Madura
7	12	7	2	0	0	0	0	0	N 22° E		4·2			68		75	— 6	·605	—·105	2·7	—3·0?	1	—0·2	0·19	0·38	— 0·19	4·16	4·13	+0·13	0·11	Pudukkottai.
0	1	5	3	2	0	9	4	13	N 23° W	N 18° E	8·4	4·7	+3·7	46	+ 6	80	+ 2	·673	—·085	4·2	—0·2	1	+0·2	0·95	0·68	+0·27	7·70	14·13	— 6·43	0·95	Negapatam.
3	8	2	1	1	0	0	4	9	N 26° W	N 27° E	2·9	2·8	+0·1	60	+24	72	— 6	·593	—·107	2·3	—0·4	1	+0·3	0·71	0·61	+ 0·10	2·39	3·34	— 0·95	0·71	Trichinopoly.
12	4	7	4	0	0	0	1	0	N 42° E	N 63° E	3·1	2·1	+1·3	42	—21	69	—13	·539	—·120	1·9	—2·2	0	—0·7	0	0·32	— 0·32	1·09	2·09	— 1·00	0	Coimbatore.
10	2	11	4	0	0	0	1	0	N 48° E	N 53° E	4·6	3·9	+0·7	93	— 2	74	— 1	·557	—·104	1·2	—1·0	0	—0·7	0·03	0·28	— 0·25	0·92	1·59	— 0·67	0·03	Salem.
4	1	0	1	0	0	0	3	19	N 47° W	N 60° W	4·7	1·6	+3·1	79	+19	83	— 4	·630	—·142	4·0	+1·2	2	+0·6	0·95	0·98	— 0·03	5·60	9·85	— 4·25	0·78	Cuddalore.
27	0	1	0	0	0	0	0	0	N 45° E		1·9			40		83	+ 1	·553	—·093	1·8	—0·6	1	+0·2	0·16	0·36	— 0·20	5·01	1·89	+ 0·12	0·16	Vellore.
1	2	0	1	0	1	5	13	4	N 86° W	S 34° W	2·9	3·7	—0·8	63	+17	86	+ 3	·709	—·043	1·0	—1·2	3	+2·4	2·13	0·30	+ 1·83	16·29	7·41	+ 8·88	1·88	Madras.
2	3	1	6	10	3	3	0	1	S 70° E	S 72° E				46	—17	69	+ 1	·590	—·032	0·4	—0·8	0	—0·3	0	0·12	— 0·12	1·34	1·45	+ 0·09	0	Cuddapah.
6	0	1	1	5	10	4	1	0	S 6° E	S 11° E	2·9	2·9	0	56	+36	54	0	·452	+·005	0·7	—0·9	0	—0·2	0	0·08	— 0·08	0·58	0·30	+ 0·28	0	Bellary.
17	0	0	4	5	1	0	0	1	S 61° E	S 58° E	2·7			29	+21	63	+ 2	·483	—·006	0·6	—0·5	0	—0·2	0	0·14	— 0·14	0·46	0·56	—0·10	0	Kurnool.
9	2	2	0	0	0	7	5	3	N 87° W	S 13° E	2·0	3·4	—1·4	39	+23	82	— 3	·665	—·072	2·6	—0·7	1	+0·5	0·13	0·13	0	12·32	4·71	+7·61	0·13	Nellore.
7	9	7	0	1	1	1	9	2	N 15° E	N 41° E	3·4	3·4	0	46	+22	88	+ 2	·701	—·053	1·0	—1·7	2	+1·5	1·55	0·42	+ 1·13	2·45	1·56	+0·89	1·05	Masulipatam.
3	8	3	0	0	0	0	3	11	N 26° W	N 17° W	4·5	5·3	—0·8	70	+ 3	80	+ 3	·656	—·011	1·9	—0·2	0	—0·5	0	0·31	— 0·31	2·02	1·46	+0·56	0	Cocanada.
10	2	2	1	0	0	6	6	1	S 89° W	N 86° W	2·3			30	—33	75	+ 2	·622	—·023	1·2	—1·5	0	—0·9	0	0·89	—0·89	0·36	2·29	— 1·43	0	Waltair (Vizagapatam).
3	2	0	0	0	0	0	9	14	N 58° W		4·3			79		82		·571		1·0		0	—0·7	0	0·15	— 0·15	0·36	1·87	—1·51	0	Calingapatam.
0	13	0	0	0	0	1	1	13	N 27° W	N 37° W	5·5	8·0	—2·5	25	+23	70	— 8	·501	—·113	0	—1·0	0	—1·0	0	0·49	— 0·49	0·39	1·54	— 1·15	0	Gopalpur.
																															Bay Islands.
4	3	2	0	0	0	8	7	4	N 82° W					50		78		·711		0·9		0		0	0·54	—0·54	0	2·11	—2·11	0	P. V. Fraser.
10	5	4	2	3	0	0	0	4	N 26° E	N 9° E	4·4	3·7	+0·7	36	—15	79	— 5	·718	—·095	2·8	—0·9	1	—0·3	0·27	0·95	— 0·68	13·64	9·44	+4·20	0·22	Port Blair.
8	12	4	1	0	0	0	2	5	N 6° W		6·4			63		72	—6	·651	—·106	3·1	—2·1	0	—0·4	0	0·14	— 0·14	6·21	3·31	+2·90	0	Table Island.
																															Kashmir.
22	0	0	0	2	3	1	0	0	S 11° E		1·7			18		59		·211		4·6		2		0·86	4·47	— 3·61	6·87	11·34	— 4·47	0·67	Muzaffarabad.
8	2	2	2	3	1	2	1	7	N 28° W	S 24° E	2·8	2·6	+0·2	18	— 5	87*	— 1	·196*	+·037	8·1	+0·5	4	—2·3	1·76	2·88	— 1·12	4·14	7·13	— 2·99	0·96	Srinagar.
																															Gulmarg.
26	0	1	0	0	0	0	0	1	N		0·5			5						5·8	+0·5	6	—1·1	1·85	2·64	— 0·79	6·15	7·28	—1·13	0·45	Dras.
23	0	2	3	0	0	0	0	0	N 72° E	S 27° W	2·5	0·9	+1·6	14	—22					5·8	—0·6	1	+0·1	0·35	0·32	+ 0·03	0·39	0·87	— 0·48	0·10	Leh.
23	0	0	1	0	0	0	3	1	N 75° W		2·4			11						5·8	—0·6	0	—2·3	0·11	0·75	— 0·64	0·57	2·15	— 1·58	0·06	Skardu.
23	0	0	0	0	1	3	0	1	S 49° W		0·4			11		48†	— 7	·128†	—·006	5·1	—1·8	0	—0·8	0	0·21	— 0·21	0·11	0·57	— 0·46	0	Gilgit.

hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 19 days.
† ,, ,, 22 ,,

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division	Station	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·510		25·479	25·603	18th	25·430	26th	46·4	41·7*	60·6		37·8		49·2		22·8	74·1	28th	24·1	6th
	Quetta	5,502	24·722	+·053	24·682	24·797	18th	24·662	26th	35·7	40·6†	56·6	+3·7	30·5	−0·7	43·5	+1·5	26·1	73·5	28th	7·7	3rd
	Chaman	4,311	25·771	+·020	25·733	25·892	5th	25·658	27th	43·1	42·7‡	60·1	+2·7	39·2	+1·3	49·6	+2·0	20·9	75·0	28th	22·3	4th
	Kalat	6,630	23·799		23·761	23·886	28th	23·756	15th	32·7	38·7§	55·6	+2·4	28·0		41·9		27·6	73·9	28th	10·1	4th
	Dalbandin	2,772	27·240		27·203	27·404	5th	27·117	27th	44·9	44·9‖	70·0		33·1¶		49·2¶		36·6	86·3	28th	20·4	5th
	Pasni		30·112		30·072	30·219	4th	30·032	26th	58·9	55·9	79·1		52·3		65·7		26·8	87·1	27th	40·1	6th
	Panjgur		26·853		26·811	26·976	5th	26·764	27th	44·3	42·2*	70·6		41·5		56·0		29·1	86·2	28th	23·6	5th
	Robat		26·953		26·911	27·174	1th	26·754	23rd	46·9	42·4*	67·2		38·1		53·0		29·7	78·0	28th	22·3	4th
	Seistan		28·348			28·590	4th	28·100	23rd & 27th	42·5	41·2‖	67·6		38·9		53·3		28·7	79·5	28th	26·9	4th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·516	+·066	24·492	24·594	18th	24·449	7th	36·9	36·9**	54·6	+4·4	31·7	+1·4	43·2	+2·9	22·9	66·2	1st	22·1	5th
	Cherat	*4,256*	25·819	+·074	25·787	25·926	23rd	25·735	7th	45·7	38·2††	54·0	+1·7	41·4	+1·0	47·7	+1·3	12·6	61·4	22nd	34·3	3rd
	Drosh (c)		25·238			25·325	17, 18 & 23rd.	25·125	26th	38·2	37·6**	51·6	+1·5	35·5	+2·8	43·5	+2·1	16·1	60·3	28th	29·4	4th
	Murree	6,333	23·852	+·023	23·821	23·942	23rd	23·766	4th	41·0	35·0++	48·4	+1·3	37·9	+4·1	43·1	+2·7	10·5	53·5	22nd	31·9	4th & 5th.
	Simla	7,232	23·136	+·067	23·098	23·237	18th	23·041	4th	42·4	36·4‡‡	49·8	+3·6	38·4	+3·1	44·1	+3·3	11·4	55·9	28th	30·1	5th
	Chakrata	7,072								46·3	38·0§§	56·5	+5·4	40·0	+4·2	48·3	+4·8	16·5	62·7	24th	31·5	5th
	Mukteswar	7,592	22·863	+·037	22·822	22·958	18th	22·786	5th	43·6	26·4	56·1	+6·2	38·2	+3·0	47·1	+4·6	17·9	61·0	25th	31·7	5th
	Darjiling	7,432	22·918	+·010	22·903	23·045	18th	22·893	6th & 8th.	40·4	38·3	50·7	+2·3	37·4	+1·9	44·0	+2·1	13·3	57·1	22nd	32·0	9th
	Shillong	4,920	25·181	+·016	25·133	25·269	18th	25·125	6th	50·3	45·6	62·5	+0·4	41·6	+0·1	52·1	+0·3	20·9	69·8	28th	31·7	8th
	Cherrapunji	4,309	25·747	+·012	25·698	25·839	17th	25·679	6th	54·2	48·0	63·0	+2·1	47·3	+0·1	55·2	+1·1	15·7	67·7	27th	41·0	8th
	Netarhat		26·316		26·265	26·345	24th	26·288	5th	62·3	49·6	72·6		48·5		60·6		24·1	78·7	21st & 28th.	41·0	1st, 2nd & 7th.
	Maymyo	3,546	26·497	+·012	26·442	26·566	22nd	26·421	6th	50·1	48·3	73·4	−1·6	43·0	+0·1	58·2	−0·7	30·4	79·2	28th	37·8	2nd
	Pachmarhi	3,528	26·549	+·022	26·496	26·614	17th	26·470	5th	59·5	51·8	77·6	+2·4	51·6	+0·8	64·6	+1·6	26·0	83·0	28th	42·6	7th
	Mount Abu	3,945	26·156	+·052	26·106	26·228	10th	26·066	4th	62·0	48·5	69·8	+2·1	54·9	+1·8	62·4	+1·9	14·9	83·0	28th	42·9	5th
	Mercara	3,781	26·302	+·016	26·235	26·352	17th	26·243	6th	61·4	53·5	80·2	−1·0	56·4	−2·5	68·3	−1·7	23·8	85·3	28th	54·0	6th & 19th.
	Ootacamund	*7,327*	23·109	+·019	23·045	23·164	25th	23·052	6th	54·4	44·7	66·2	−0·5	41·6	−2·7	53·9	−1·6	24·6	70·8	25th	36·2	9th
	Kodaikanal	7,688	22·869	0	22·804	22·921	25th	22·810	4th	50·8	42·1	64·4	−1·1	43·5	−4·5	54·0	−2·8	20·9	70·6	11th	40·3	4th
	Extra India.																					
	Singapore(a)	10	29·902	−·048	29·833	29·983	22nd	29·807	4th	79·7		86·3	−1·6	71·1	−1·3	78·7	−1·5	15·2	90·0	6th	67·5	22nd
	Penang (a)	17	29·884	−·041	29·826	29·964	23rd	29·813	6th	79·4		89·2	−0·6	70·0	−3·8	79·6	−2·2	19·2	92·5	19th, 24th & 28th.	68·0	5 days.
	Trincomalee	99	29·940	+·050	29·968	30·002	17th	29·869	6th	74·6	70·0	82·8	−2·6	72·6	−2·1	77·7	−2·3	10·2	85·9	17th	66·3	15th
	Colombo	24	29·999	+·040	29·949	30·059	17th	29·948	7th & 8th.	68·9	66·7	86·3	−2·3	68·4	−4·6	77·3	−3·5	17·9	90·3	13th & 18th.	63·4	18th
	Hambantota	64	29·964		29·956	30·026	17th	29·904	3rd	68·7	66·3	82·8		67·5		75·6		16·3	87·7	18th	60·0	16th
	Minicoy	7	30·039	+·060		30·089	17th	29·993	6th													
	Amini Divi	*13*	30·017	+·022	29·958	30·069	17th	29·967	27th	81·4	74·6	88·5	+2·1	74·9	−1·0	81·7	+0·5	13·6	91·8	20th	69·5	12th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,567	24·487	+·004	24·442	24·559	11th	24·442	15th	47·4	44·4	58·1	−1·0	42·7	+7·8	50·4	+3·4	15·4	65·5	21st	38·2	11th

N.B.—Elevations in italics indicate barometrical determinations.

(*a*) 9 hrs. observations.

(*c*) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 23 days.
† " 16 "
‡ " 28 "
§ " 13 "
‖ " 21 "
¶ " 12 "
** " 15 "
†† " 8 "
‡‡ " 19 "
§§ " 25 "

B—*continued.*

at 214 stations in India, etc., in February, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	25	25	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	54	55
																															Baluchistan.
17	0	0	1	1	4	3	2	0	S 20° W		2·7			25		57*		·193*		3·2		4		0·95	1·07	−0·12	2·00	2·28	− 0·28	0·34	Fort Sandeman.
22	0	0	0	1	1	2	1	1	S 45° W	S 4° W	2·4	2·6	−0·2	11	−1	87†	+12	·226†	+·065	4·8	+1·1	5	+0·3	1·79	1·95	−0·16	2·95	4·88	− 1·92	0·83	Quetta.
1	0	0	13	11	3	0	0	0	S 63° E	S 46° E	5·3	6·1	−0·8	82	+21	71‡	+ 6	·232‡	+·047	4·8	+1·0	2	−2·1	1·09	1·52	−0·43	4·11	4·13	− 0·02	0·69	Chaman.
25	0	0	0	0	0	3	0	0	S 45° W	S 32° W	4·4			11	−49	68§		·187§		4·1		0	−3·8	0·09	1·17	−1·08	0·62	3·52	−2·90	0·09	Kalat.
7	4	8	4	2	1	2	0	0	S 58° E		4·4			42		66‖		·244‖		4·7		2		0·61	1·46	−0·85	1·68	2·42	− 0·74	0·46	Dalbandin.
2	2	0	2	0	0	0	16	12	N 58° W		5·8			67		80		·426		4·5		0		0	2·71	−2·71	0·53	4·54	− 4·01	0	Pasni.
7	0	11	9	1	0	0	0	0	N 68° E		5·0			63		67*		·216*		3·9		0		0			0·41			0	Panjgur.
9	0	0	1	0	0	9	9	0	S 66° W		3·9			53		51*		·190*		4·4		0		0	0·82	−0·82	0·62	2·24	− 1·62	0	Robat.
13	9	0	1	0	0	0	0	5	N 12° W		4·0			42		67‖		·209‖		3·5		0		0·02			0·25			0·02	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
28	0	0	0	0	0	0	0	0	Calm		0·9			(a)		69*	− 4	·178*	+·023	3·3	−0·2	5	+0·7	1·69	2	− 0·49	2·76	5·62	− 2·86	0·39	Para Chinar.
4	13	1	0	0	0	0	0	10	N 17° W	N 16° W	9·1	9·9	−0·8	78	+22	45‡	−11	·139‡	−·015	3·3	−0·8	1	−3·6	0·70	3·34	− 2·64	3·04	7·31	− 4·27	0·59	Cherat.
27	0	9	0	1	0	0	0	0	S 45° E		1·0			4		59**	− 2	·182**	+·029	4·6	+0·3	1	−2·0	0·23	1·13	− 0·90	2·35	3·06	− 0·71	0·11	Drosh.
10	4	0	10	3	0	0	0	1	N 77° E	S 68° E	4·3	6·5	−2·2	39	− 1	54††	−10	·137††	−·065	4·3	−0·3	1	−4·9	1·32	4·31	− 2·99	7·32	9·79	−1·97	1·25	Murree.
																48‡‡	− 8	·138‡‡	+·010	3·7	−0·8	1	−4·8	0·23	3·29	− 3·06	1·76	7·29	−5·59	0·22	Simla.
4	1	18	1	0	0	2	1	1	N 40° E	N 66° E	5·8	4·6	+1·2	60	+29	46	−17	·143	−·003	2·1	−1·7	1	−4·8	0·16	4·57	− 4·41	4·11	10·31	−6·20	0·14	Chakrata.
0	1	2	5	1	0	1	15	3	N 74° W		6·5			39		42§§	−10	·138§§	−·003	2·2	−1·9	0	−4·8	0	2·09	− 2·09	1·41	5·68	−4·27	0	Mukteswar.
22	0	2	1	0	0	0	3	0	N 25° W	S 53° E	1·8	4·0	−2·2	4	−16	84	+ 1	·211	+·008	6·0	+1·7	2	−0·4	0·37	1·11	− 0·74	0·45	2·00	−1·55	0·14	Darjiling.
16	0	0	1	1	3	4	0	1	S 18° W		2·0			21		70	+ 2	·256	+·017	2·0	−0·7	1	−1·9	0·34	1·40	− 1·06	0·47	2·00	−1·53	0·26	Shillong.
6	2	3	4	1	4	6	0	3	S 56° W		4·9			7		64	− 4	·269	− ·009	2·9	−0·2	1	−2·1	0·23	3·10	− 2·87	0·27	4·06	−3·79	0·19	Cherrapunji.
1	1	0	0	0	0	4	8	14	N 60° W		3·4			79		38		·212		1·0		1		0·13			0·58			0·13	Netarhat.
27	0	0	0	0	0	1	0	0	S 45° W		1·5			4		88	+ 5	·317	−·037	0·4	−1·1	0	−0·7	0	0·17	− 0·17	0·12	0·92	−0·80	0	Maymyo.
3	1	1	3	3	6	6	4	4	S 16° W	S 23° W	3·6	3·2	+0·4	29	+13	59	+ 9	·303	+ ·027	0·6	−1·5	1	−0·3	0·17	0·65	− 0·48	0·44	1·71	−1·27	0·17	Pachmarhi.
8	2	4	2	1	0	4	4	3	N 45° W	N 45° W	3·3	4·5	−1·2	14	−14	35	− 4	·143	+·004	1·2	−0·9	0	−0·7	0	0·31	− 0·31	0·12	0·73	−0·61	0	Mount Abu.
9	0	10	9	0	0	0	0	0	N 66° E	N 60° E	2·5	3·1	−0·6	60	+18	83	+10	·453	−·004	1·6	−1·9	0	−0·5	0	0·17	− 0·17	0·57	1·12	−0·55	0	Mercara.
6	0	1	11	6	3	0	1	0	S 66° E		3·3			56		47	− 4	·198	−·026	1·4	−0·6	0	−1·1	0	0·54	− 0·54	2·87	4·13	−1·26	0	Ootacamund.
0	8	9	3	2	0	0	2	4	N 21° E		9·4			60		50	− 6	·181	−·058	1·4	−0·9	1	−1·4	0·57	1·36	− 0·79	7·46	8·81	−1·35	0·45	Kodaikanal.
																															Extra India.
0	3	24	0	0	0	0	0	1	N 38° E					92						5·8	+1·2	6	−3·9		7·24	− 5·33	36·20	30·71	+ 5·49	0·83	Singapore.
0	20	5	0	0	0	0	0	3	N 3° E					92								0	−6·3	9	3·98	− 3·98	6·93	13·84	− 6·91	0	Penang.
5	2	5	4	0	2	2	4	2	N 18° E	N 7° E	4·7	5·0	−0·3	7	−14	79	− 6	·674	−·143	5·1	+2·1	4	+1·5	1·57	1·93	− 0·36	25·60	21·78	+ 3·82	0·84	Trincomalee.
18	6	4	0	1	0	0	0	0	N 19° E	N 58° E	3·8	4·7	−0·9	32	−21	90	+11	·657	−·153	5·9	+3·1	0	−3·7	0·10	2·14	− 2·04	8·75	11·19	− 2·44	0·06	Colombo.
0	21	5	0	0	0	0	0	2	N 4° E		9·7			92		88		·614		2·9		1		1·62	1·49	+ 0·13	14·68	10·39	+ 4·29	1·00	Hambantota.
0	13	7	5	1	0	0	0	1	N 30° E	N 20° E	2·5	3·8	−1·3	71	+ 5					2·6	−0·5	1	−0·3	0·12	0·63	− 0·51	8·74	5·92	+ 2·82	0·12	Minicoy.
4	12	9	0	0	0	0	0	3	N 11° E		4·4			79		72	− 1	·765	−·037	3·2	−0·6	1	+0·8	0·18	0·05	+ 0·13	5·79	1·64	+ 4·15	0·18	Amini Divi.
																									0·03			0·04			Cuddalore.
																									0·56			0·65			Tharijong.
27	0	1	0	0	0	0	0	0	N 45° E		0·7			4		80	+ 1	·263	+·005	2·2	−1·0	6	+0·6	2·81	2·71	+ 0·10	3·57	4·74	− 1·17	1·16	Gangtok.

(a) Indeterminate.

* Mean of 23 days.
† ,, 16 ,,
‡ ,, 22 ,,
§ ,, 13 ,,
‖ ,, 21 ,,
** ,, 15 ,,
†† ,, 26 ,,
‡‡ ,, 19 ,,
§§ ,, 25 ,,

Table

(2) Abstract of observations taken at 8 hrs.

Number of Sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·607	—·083		25·930	21st	25·230	24th	27·3		46·8	+4·2	22·5	+3·7	34·7	+3·9	24·3	54·3	21st & 26th.	14·3	5th
	Kabul (*c*)																					
	Meshed	3,104								31·8	36·3*	50·2	+3·4	28·2	0	39·2	+1·7	22·0	62·9	20th	18·0	3rd
	Jask	13	30·095	+·054	30·062	30·256	4th	29·925	27th	64·2	59·4	76·7	+ 1·9	60·8	—1·2	68·8	+0·3	15·9	81·5	28th	54·3	5th
	Muscat	20	30·090	+·026	30·051	30·236	4th	29·925	27th	68·8	61·4	78·8	+4·9	66·5	—1·0	72·7	+1·9	12·3	82·5	12th	60·3	6th
	Bushire	14	30·102	+·057	30·077	30·286	1st	29·923	27th	56·1	52·9	65·6	+0·1	52·7	—0·2	59·2	—0·1	12·9	81·1	19th	46·2	4th
	Busrah	25	30·157	+·018	30·153	30·363	1st	29·922	22nd	51·8	46·8	66·3	+0·9	46·3	—2·7	56·3	—0·9	20·0	80·1	19th	35·8	3rd
	Kerman (*c*)																					
	Ispahan (*c*)	*5,817*	24·246	+·026		24·430	4th	23·910	23rd	31·2	35·5*	52·9	—1·0	28·8	+0·1	40·8	—0·5	24·1	69·4	23rd	21·2	4th, 5th & 13th.
	Tehran (*d*)	*4,002*	25·791(*c*)	—·079		26·250	2nd	25·450	23rd	37·0	36·9†	49·7	—1·2	33·1	+1·0	41·4	—0·1	16·6	58·0	18th	25·3	3rd
	Baghdad (*e*)	127	29·989	+·034		30·250	1st	29·678	22nd	45·8	43·9	62·8	—3·0	42·7	—0·3	52·7	—1·7	20·1	71·8	18th	35·9	3rd & 4th.
	Aden	94	29·994	+·038	30·021	30·062	18th	29·924	26th	72·3	68·2	79·4	—1·6	70·3	—3·0	74·8	—2·2	9·1	82·4	28th	65·1	18th
	Zanzibar	72	29·948	+·029	29·946	30·031	17th	29·872	22nd	80·4	75·1	85·1	—1·8	78·1	—1·8	81·6	—1·8	7·0	87·6	25th	76·6	11th

N.B.—Elevations in italics indicate barometrical determinatfons.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(*c*) Aneroid.
(*d*) 7 hrs. observations.
(*e*) 8-30 „ „

* Mean of 11 days.
† „ „ 17 „

B—*concluded.*

at 214 stations in India, etc., in February, 1918—*concluded.*

Wind direction.												Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																														
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.		Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th Feb. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
23	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	54	55
																																Extra India—*contd.*
																										0			0			Gartok.
										N 29° W		0·2	1·1	−0·9							4·3	−0·1	0	−0·3	0·02	0·20	−0·18	0·30	0·48	−0·18	0·02	Kashgar.
										S 51° E																1·43			3·07			Kabul.
27	0	0	0	1	0	0	0		S			1·2			4		84*		·193*		5·5	+1·0	4	+2·0	1·36	0·91	+0·45	3·70	2·34	+1·36	0·38	Meshed.
1	7	4	8	0	0	0	0	8	N 18° E	N 10° E		7·9	8·9	−1·0	56	−12	73	− 3	·259	+ ·005	0·5	−1·9	0	−1·8	0	0·91	−0·91	2·46	2·94	−0·48	0	Jask.
5	2	1	2	2	0	0	5	11	N 44° W	S 82° W		3·7	3·4	+0·3	46	+ 5	63	− 6	·450	−·055	2·0	−0·3	0	−1·6	0	0·88	−0·88	1·12	2·57	−1·45	0	Muscat.
15	2	3	2	0	0	0	1	5	N 3° W	N 48° E		4·9	5·8	−0·9	27	−20	79	− 3	·363	−·003	5·6	+2·0	5	+1·2	1·13	1·93	−0·80	4·95	7·63	−2·68	0·40	Bushire.
1	0	6	8		1	0	9	1	N 53° E			4·6			13		79		·311		5·1		6	+3·5	3·36	0·97	+2·39	6·34	3·37	+2·97	0·24	Busrah.
																																Kerman.
25	5	0	0	0	0	1	2	0	S 72° W	S 82° W		1·6	3·4	−1·8	11	−31	77*		·182*		2·7	−0·1	1	−0·3	0·80	0·40	+0·40	2·23	1·89	+0·44	0·65	Ispahan.
7	6	11	0	1	1	2	0	0	N 33° E	N 22° E		4·0	2·6	+1·4	48	+18	76†	+ 1	·187†	+ ·041	5·3	+2·3	7	+4·0	2·62	0·98	+1·64	3·17	3·90	−0·73	1·02	Tehran.
9	1	4	2	4	2	1	3	2	S 83° E	N 8° E		4·4	3·2	+1·2	9	−14	87	+16	·260	+ ·025	3·8	+0·3	4	+1·6	1·44	1·31	+0·13	4·16	3·63	+0·53	0·65	Baghdad.
6	9	12	1	0	0	0	0	0	N 28° E	N 81° E		9·7	11·2	−1·5	67	−12	80	+ 3	·621	−·056	5·9	0	0	−0·5	0	0·21	−0·21	0·23	0·68	−0·45	0	Aden.
2	8	15	2	1	1	0	0	0	N 39° E	N 27° E		5·1	4·9	+0·2	71	− 1	77	− 2	·796	−·072	6·5	0	3	−0·7	1·36	2·23	−0·87	4·13	10·78	−6·65	0·98	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 67 fourth and fifth class stations in India, etc., in February, 1918.

Table

Abstract of observations taken at 8 hrs. at 67 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S. W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	66·7	55·0	76·3	+1·7	51·7	+3·4	64·0	+2·5	24·6	82·3	19th	42·5	10th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	61·7	59·2	77·3	+0·7	47·5	−0·4	62·4	+0·1	29·8	84·2	23rd	39·1	8th & 10th.	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	54·1	53·6	82·8	+1·8	46·7	−4·9	64·7	−1·5	36·1	89·6	27th & 28th.	36·6	8th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	54·9	53·5	75·4	+10·6	56·9	+1·[illegible]	63·1	+5·9	24·5	83·1	18th	40·7	10th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	56·1	55·0	74·5	+1·7	52·1	+1·3	63·3	+1·7	22·4	84·8	15th	42·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	56·6	55·9	75·1	+1·1	50·2	...	62·7	...	24·9	80·9	23rd	41·2	10th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	57·0	55·3	80·5	+1·6	48·0	−4·2	64·3	−1·6	32·5	87·0	28th	38·8	8th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	56·4	55·5	74·7	+0·7	51·5	+2·2	64·6	+1·5	20·2	80·9	19th	45·0	10th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	56·5*	54·8*	79·5*	...	47·2†	...	63·7†	...	32·7	85·9	24th	41·0	25th	...	...	...	...	...	...	...	...	...	...	...
	Messa	62·0	54·4	80·5	+0·7	48·7	+0·8	64·6	+0·7	31·8	85·3	25th	41·0	12th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	51·9	50·3	77·3	+2·2	46·3	−2·0	61·8	+0·1	31·0	81·6	22nd & 24th.	37·1	8th, 9th & 13th.	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	63·4	58·8	83·1	+2·6	52·8	−2·8	67·9	−0·1	30·3	90·6	28th	42·1	6th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	61·5	58·8	83·7	+3·6	47·4‡	...	65·5‡	...	36·3	92·1	27th	39·7	3rd	...	...	...	...	...	...	...	...	...	...	...
	Pabna	60·8	58·0	83·8	+1·2	55·8	+3·9	70·3	+2·5	27·0	91·5	27th	48·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	58·3	53·8	84·5	+3·6	45·1	−0·6	64·8	+1·5	39·4	90·0	28th	37·8	7th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	61·5	56·4	79·6	+3·4	48·6	−0·2	64·1	+1·6	31·0	82·1	5 days	40·0	8th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	64·3	57·5	77·9	+1·4	53·2	−0·6	65·5	+0·4	24·7	81·1	5 days	45·0	7th & 8th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 27 days.
† " 22 "
‡ " 4 "

C.

nd fifth class stations in India, etc., in February, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 28th February 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	90	− 4	·416	+ ·001	...	...	3	− 0·3	0·96	1·47	− 0·51	1·12	2·90	− 1·78	0·50	Bishnath.
...	...	...	...	...	85	− 4	·475	+ ·069	...	...	3	+ 1·5	0·66	1·35	− 0·69	0·74	2·30	− 1·56	0·22	Borjuli.
...	...	...	...	...	97	+ 4	·412	− ·043	...	...	1	− 1·2	0·44	1·76	− 1·32	0·67	3·60	− 2·93	0·44	Chandkhira.
...	...	...	...	...	91	− 3	·396	− ·017	...	...	6	0	1·62	2·82	− 1·20	2·46	4·97	− 2·51	0·52	Doom Dooma.
...	...	...	...	...	93	− 1	·420	+ ·010	...	...	6	+ 0·8	1·66	2·42	− 1·16	2·07	4·40	− 2·33	0·27	Dikom.
...	...	...	...	...	95	+ 2	·440	+ ·006	...	...	3	− 0·5	1·10	1·74	− 0·64	1·10	3·28	− 2·18	0·69	Golaghat.
...	...	...	...	...	89	− 1	·417	− ·011	...	...	4	+ 1·2	0·70	1·83	− 1·13	0·85	3·89	− 3·04	0·25	Hailakandi.
...	...	...	...	...	94	0	·431	− ·003	...	...	3	− 0·5	0·95	1·71	− 0·76	1·22	3·51	− 2·29	0·34	Jorehat.
...	...	...	...	...	89*	...	·409*	...	...	...	0	− 2·4	0	1·20	− 1·20	0·09	1·97	− 1·89	0	Lumding.
...	...	...	...	...	59	−23	·325	− ·104	...	...	2	− 0·5	0·57	1·42	− 0·85	0·62	2·61	− 1·99	0·30	Messa.
...	...	...	...	...	90	+ 1	·352	+ ·003	...	...	1	− 0·8	0·21	1·43	− 1·22	0·21	2·25	− 2·04	0·16	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·9	0	1·13	− 1·13	0·28	1·71	− 1·43	0	Comilla.
...	...	...	...	...	75	− 7	·440	− ·044	...	...	0	− 2·2	0	1·38	− 1·38	0·06	2·11	− 2·05	0	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	− 2·0	0·01	1·28	− 1·27	0·03	1·91	− 1·88	0·01	Faridpur.
...	...	...	...	...	70	−11	·430	− ·012	...	...	0	− 2·2	0·04	1·29	− 1·25	0·10	1·87	− 1·77	0·04	Goalundo.
...	...	...	...	...	73	− 1	·440	+ ·005	...	...	0	− 1·8	0	0·84	− 0·84	0·02	1·43	− 1·41	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·4	0	0·82	− 0·82	0	1·29	− 1·29	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·5	0	0·61	− 0·61	0	1·03	− 1·03	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·6	0	0·92	− 0·92	0·06	1·57	− 1·51	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·2	0	0·65	− 0·64	0·06	1·07	− 1·01	0	Rangpur.
...	...	...	...	...	85	− 8	·388	+ ·019	...	...	0	− 2·2	0·02	1·08	− 1·06	0·02	1·78	− 1·76	0·02	Dam Dim.
...	...	...	...	...	70	− 7	·393	− ·032	...	...	0	− 2·7	0·17	1·39	− 1·22	0·25	2·17	− 1·92	0·09	Kalchini.
...	...	...	...	...	65	−10	·389	+ ·019	...	...	2	− 1·2	0·54	1·37	− 0·83	0·54	2·36	− 1·82	0·31	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·8	0	0·93	− 0·93	0	1·27	− 1·27	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·5	0·02	1·28	− 1·26	0·03	1·88	− 1·86	0·02	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·8	0	1·12	− 1·12	0·05	1·64	− 1·59	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·6	0	0·97	− 0·97	0·17	1·57	− 1·40	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	− 2·3	0	1·18	− 1·18	0·49	2·10	− 1·61	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·7	0·02	0·76	− 0·74	0·13	1·38	− 1·25	0·02	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·6	0	0·54	− 0·54	0	1·18	− 1·18	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·1	0	0·57	− 0·57	0	1·25	− 1·25	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·5	0	0·61	− 0·61	0·01	1·34	− 1·33	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·4	0	0·76	− 0·76	0·15	1·58	− 1·43	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·7	0	0·82	− 0·82	0·05	1·65	− 1·60	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 67 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	61·5	53·4	84·5	...	55·0	...	69·7	...	29·5	90·5	28th	46·3	7th	25	2	1	0	0	0	0	0	0	N 18° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	69·8	64·8	90·6	...	62·3	...	76·5	...	28·3	96·2	28th	56·0	2nd	...	...	...	...	...	...	...	...	...	...	...
36	Guntur	71·9	68·9	89·7	...	66·5	...	78·1	...	23·2	97·6	15th	60·6	3rd	...	...	...	...	...	...	...	...	...	...	...
	Koraput	60·5	54·5	82·0	...	53·0	...	67·5	...	29·0	88·0	28th	40·8	1st	...	...	.	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	54·5	43·5	71·0	...	50·8	...	60·9	...	20·2	75·6	19th	44·3	4th & 6th.	0	8	15	0	0	2	0	2	1	N 25° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Kargil	12·9	...	28·5	...	−3·7	...	12·4	...	32·2	40·1	27th	−17·9	1st	8	0	0	4	16	0	0	0	0	S 54° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	62·3	55·0	77·8	+2·7	56·8	+3·3	67·3	+3·0	21·0	81·9	25th	51·4	8th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	54·1	53·2	58·9	+0·5	46·7	+1·0	52·8	+0·7	12·2	61·6	7th	44·3	12th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	50·4	+9·9	28·6	+5·2	39·5	+7·5	21·8	59·5	28th	21·2	26th	3	0	3	3	4	8	4	1	2	S 17° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	57·4	+2·1	26·8	−0·8	42·1	+0·7	30·6	70·3	28th	9·0	4th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in February, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec., 1917 to 28th Feb., 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	—1·7	0	0·93	—0·93	0·67	2·63	—1·96	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	—3·7	0	2·49	—2·49	1·54	5·65	—4·11	0	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	—0·5	0	0·16	—0·16	0·10	0·39	—0·29	0	Udaipur.
																				XII.—Central Provinces.
1·1	...	...	11	...	56	...	·315	...	1·2	...	1	...	0·50	0·75	—0·25	0·53	1·89	—1·36	0·43	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	—0·2	0	0·12	—0·12	0	0·51	—0·51	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	1	—0·6	0·15	0·92	—0·77	7·47	6·31	+1·16	0·15	Tinnevelly.
...	...	...	...	...	76	...	·552	...	2·1	...	0	—0·2	0	0·02	—0·02	0·13	0·32	—0·19	0	Anantapur.
...	...	...	...	...	85	...	·666	...	0·7	...	2	+1·6	0·72	0·17	+0·55	2·36	0·45	+1·91	0·58	Guntur.
...	...	...	...	...	68	...	·358	...	...	...	0	...	0	...	...	1·01	...	...	0	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	0	—2·5	0	1·28	—1·28	26·74	13·27	+13·47	0	Car Nicobar.
																				Kashmir.
...	...	...	68	...	63	...	·272	...	3·7	...	1	—2·8	0·41	3·21	—2·80	1·00	7·14	—5·54	0·38	Jammu.
...	...	...	...	...	...	...	...	...	...	...	11	+1·1	6·66	9·59	—2·93	15·68	26·95	—11·27	1·15	Sonamarg.
...	...	...	64	...	...	...	...	...	5·5	...	2	—0·7	0·41	1·38	—0·97	0·50*	4·16	—3·66	0·10	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	—3·5	0·31	1·56	—1·25	0·78	3·39	—2·61	0·08	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	60	—4	·339	—·001	...	...	0	—1·8	0·02	1·19	—1·17	0·02	2·18	—2·16	0·02	Panighatta.
...	...	...	...	...	95	+23	·396	+·145	...	...	0	—3·2	0·09	1·57	—1·48	0·09	2·64	—2·55	0·09	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	11	...	8·94	4·13	+4·81	11·14	7·25	+3·89	1·75	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	9	...	2·07	3·03	—0·96	2·93	4·08	—1·15	0·45	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·75	...	...	8·20	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	0	...	0·05	...	...	3·20	...	...	0·05	Dharampore.
											0	—4·5	0·09	3·25	—3·16	3·20	7·08	—3·88	0·07	Mussooree.
...	...	..	36	...	...	...	...	...	3·4	—1·6	0	—5·5	0·03	2·24	—2·21	0·92	5·19	—4·27	0·02	Poo.
...	...	...	...	...	...	...	...	...	...	...	5	—0·9	0·95	2·79	—1·84	1·86	6·79	—4·93	0·31	Kailang.
...	...	...	...	...	...	...	...	...	1·2	...	6	+2·2	1·78	1·87	—0·09	4·24	5·00	—0·76	0·58	Pishin.

* Rainfall for December, 1917, wanting.

Table

Abstract of observations taken at 8 hrs. at 67 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	27·9	...	47·7	...	23·1	...	35·4	...	24·6	55·1	10th	19·4	2nd	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	59·4	52·7	67·1	...	49·6	...	58·3	...	17·5	78·0	18th	40·5	1st	0	4	5	1	4	5	1	0	8	N 12° E	...
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	50·5	48·4	63·6	...	46·7	...	55·1	...	16·9	75·8	...	36·1	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	51·8	49·2	64·8	...	45·4	...	55·1	...	19·4	78·6	...	33·8	...	...	...	...	...	...	...	...	...	..	...	...
	Mohammerah	52·0	49·6	66·7	−0·4	43·1	−1·8	57·4	−1·1	18·6	77·0	...	36·7	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah	49·5	46·7	64·3	...	45·5	...	51·9	...	13·8	75·2	...	33·5	...	...	...	...	...	...	...	...	...	...	...	...
	Samarrah	44·8	43·1	61·2	...	42·5	...	51·9	...	18·7	71·0	...	33·5	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

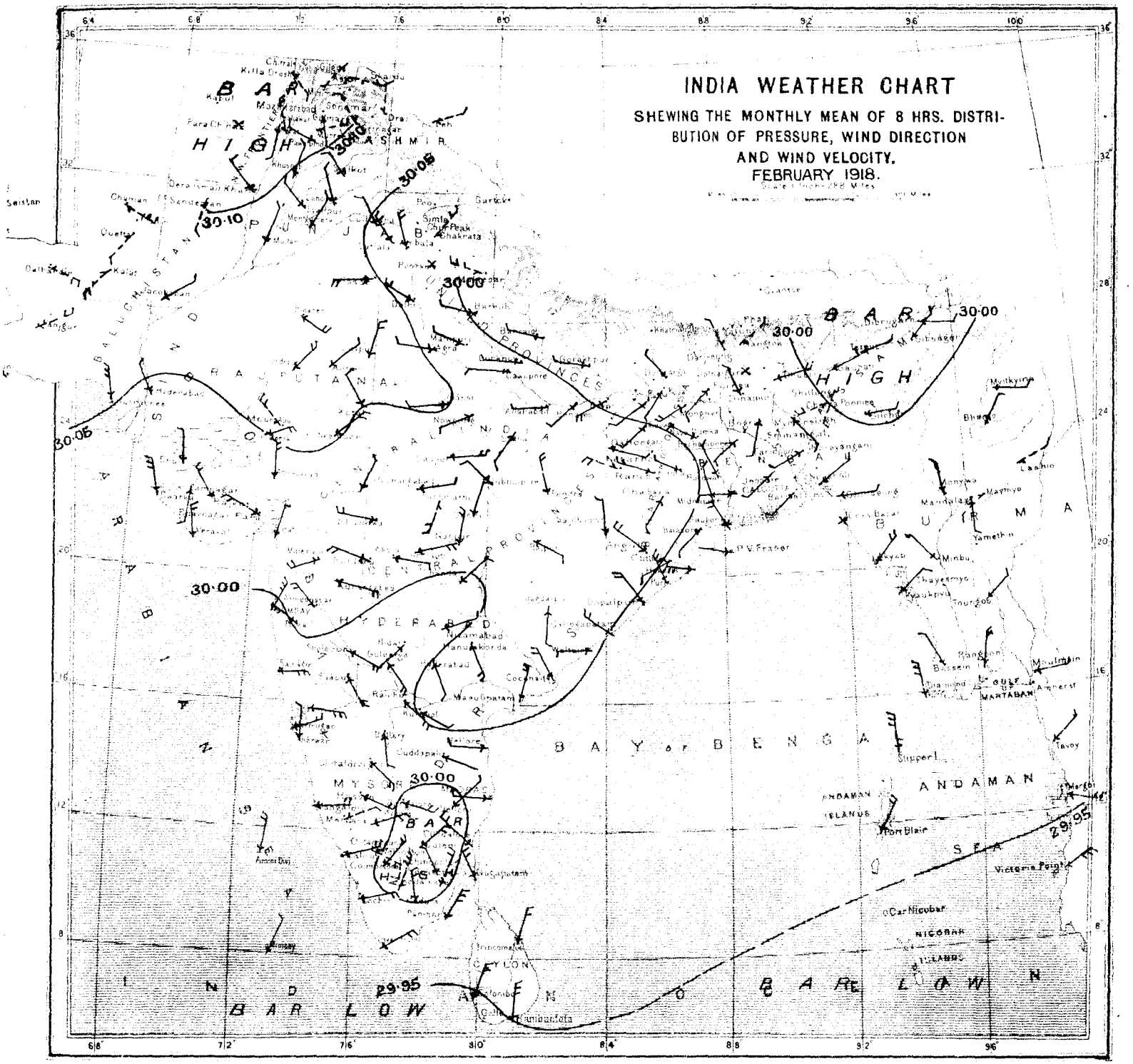
nd fifth class stations in India, etc., in February, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917, to 28th Feb. 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	4	...	2·97	...	...	4·55†	...	...	1·27	Ahwaz.
...	...	...	...	...	96*	...	·183*	...	0·4	...	0	...	0	1·38	—1·38	0·55	1·86	—1·31	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	0	−3·0	0·12	1·93	—1·81	8·36	11·55	−3·19	0·07	Pemba.
...	...	...	17	...	67	...	·316	...	...	...	4	...	2·28	...	...	5·53	...	...	1·00	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
5·0	...	...	...	...	86	...	·310	...	4·8	...	10	...	2·08	...	...	...	...	...	0·77	Amarah.
...	...	...	...	...	...	...	...	...	...	...	6	...	3·70	...	...	...	...	...	1·78	Shushtar.
4·7	...	...	...	...	84	...	·314	...	4·2	...	9	...	2·44	...	...	...	...	...	0·76	Kurna.
2·5	...	...	...	...	84	...	·320	...	5·0	...	7	...	3·34	...	...	...	...	...	0·93	Mohammerah.
...	...	...	...	...	76	...	·280	...	4·9	...	10	...	2·86	...	...	...	...	...	1·15	Nasiriyah.
3·3	...	...	...	...	87	...	·260	...	4·9	...	11	...	1·12	...	...	...	...	...	0·49	Samarrah.

SGP1-21-291-DGC-22-8-21.

* Mean of 2 days.

† Rainfall for December, 1917, wanting.

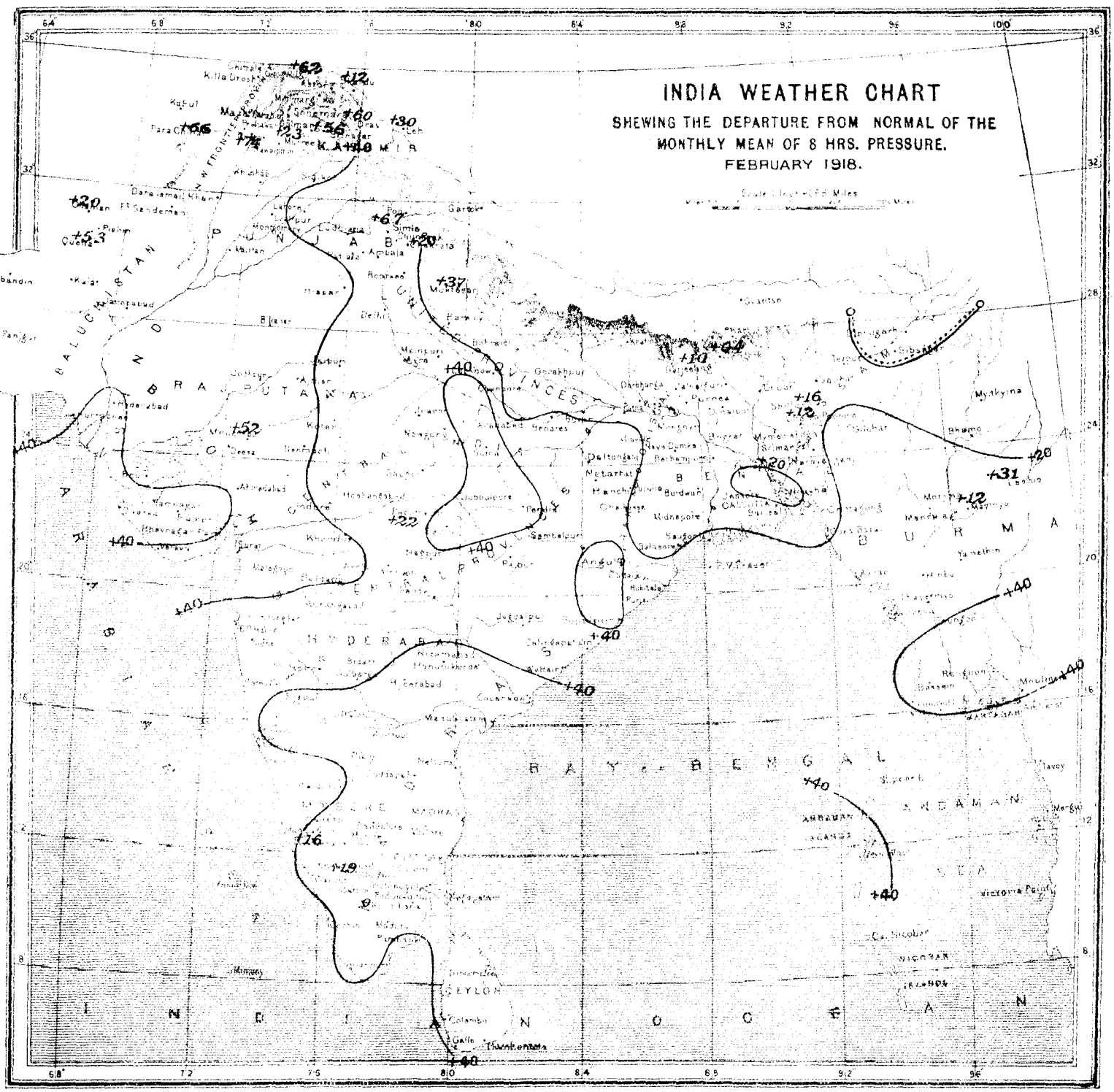


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather added to the wind arrow.							
,,	,, 2 to 5	,,	,,	,,	...	two	feathers	,,	,,	,,	,,	
,,	,, 5 to 10	,,	,,	,,	...	three	,,	,,	,,	,,	,,	
,,	,, 10 to 20	,,	,,	,,	...	four	,,	,,	,,	,,	,,	
	over 20	,,	,,	,,	...	five	,,	,,	,,	,,	,,	

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

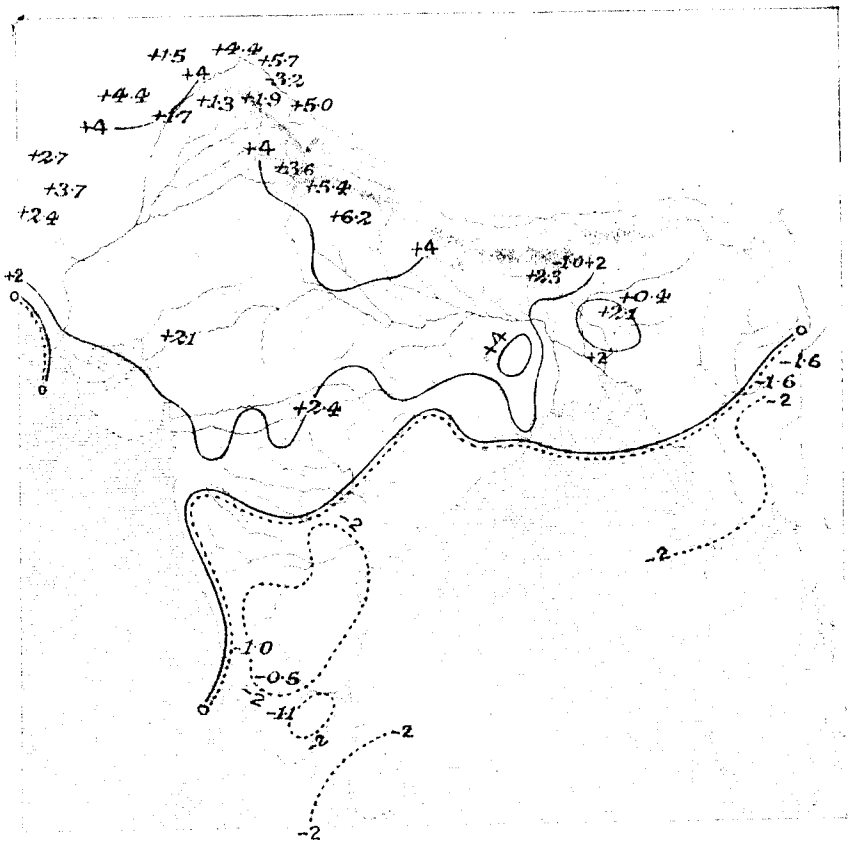


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

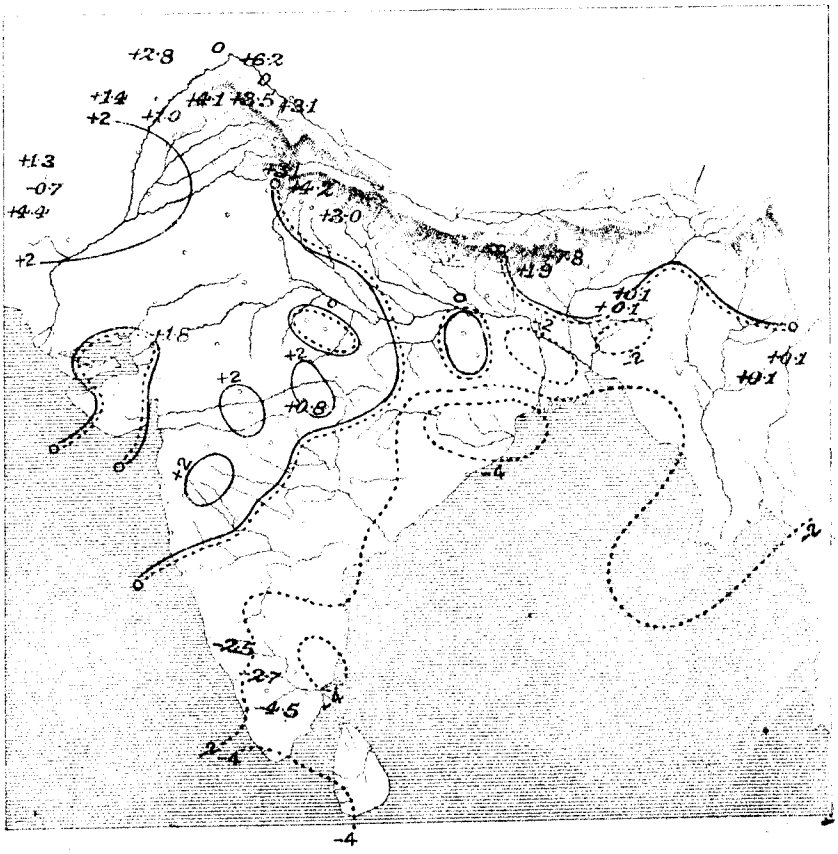


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

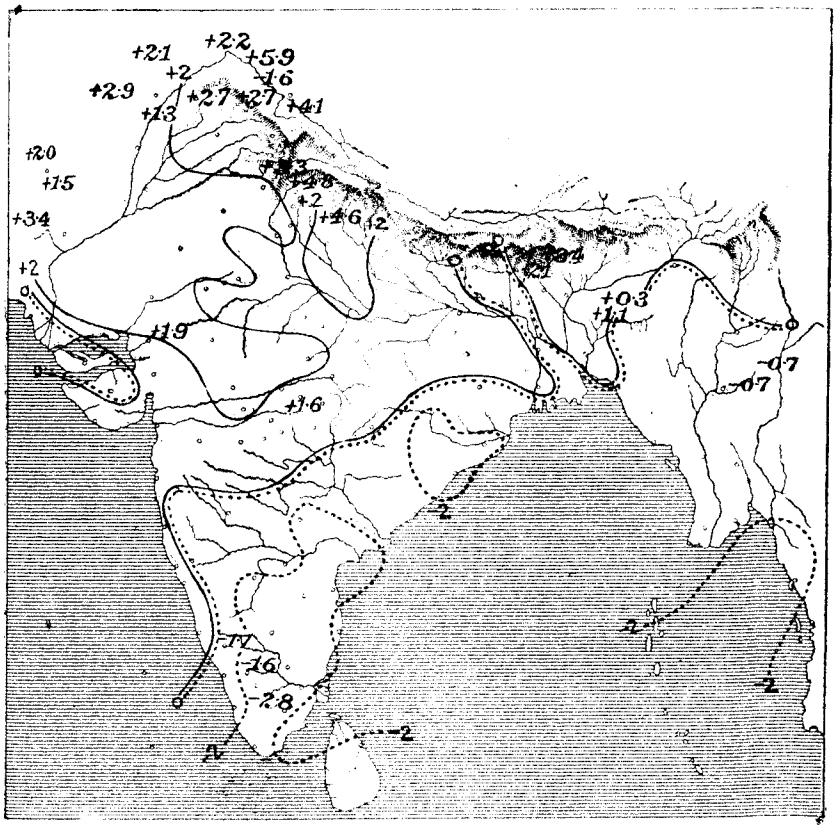


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

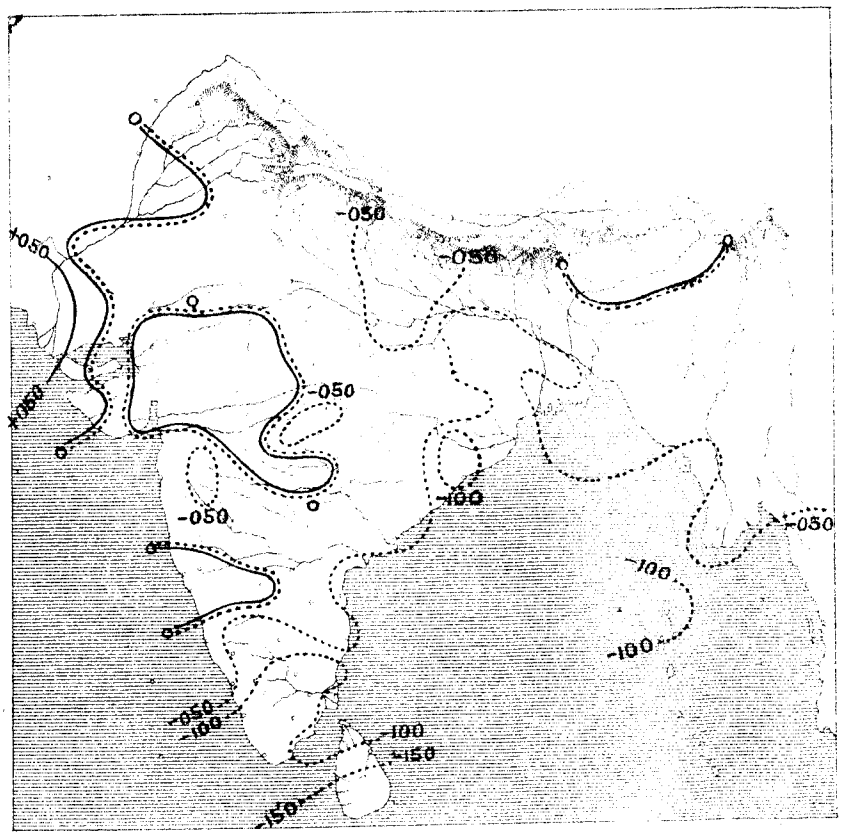


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

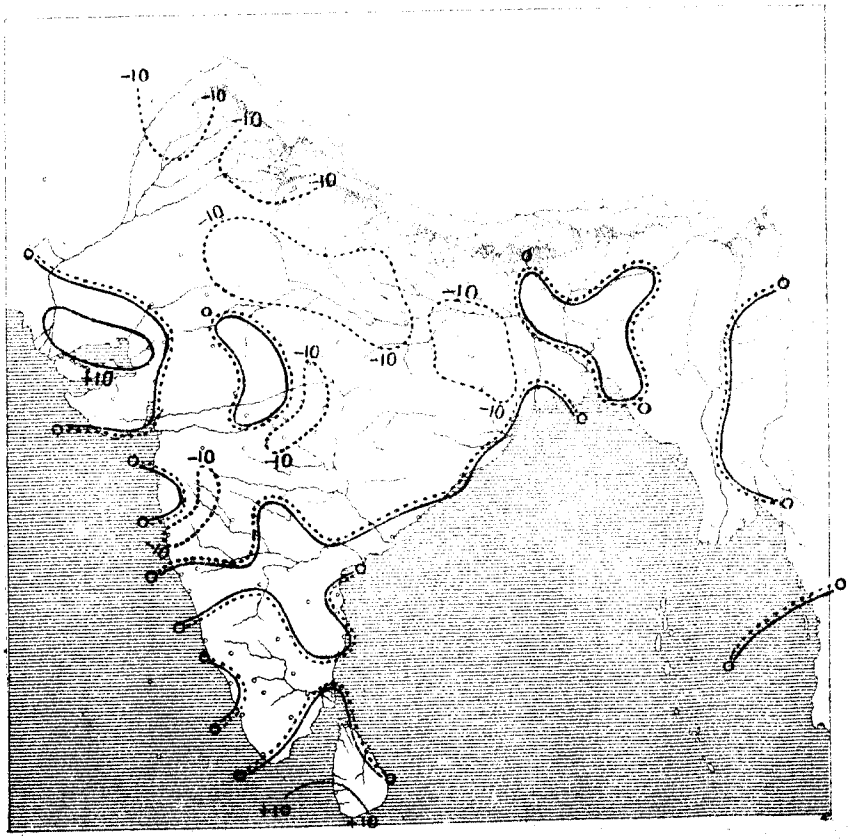


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

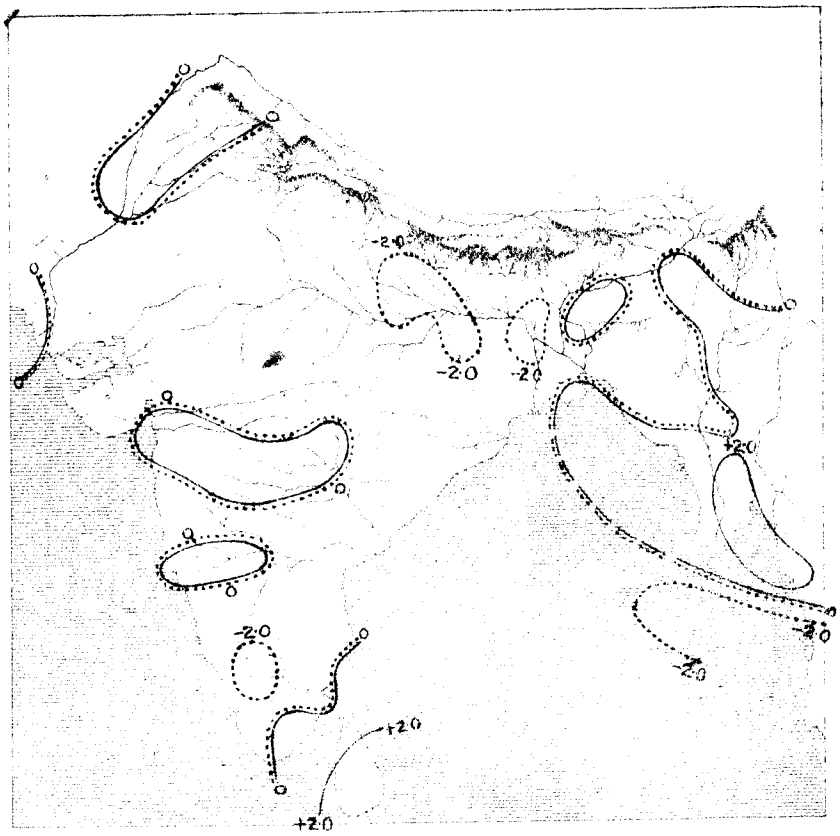
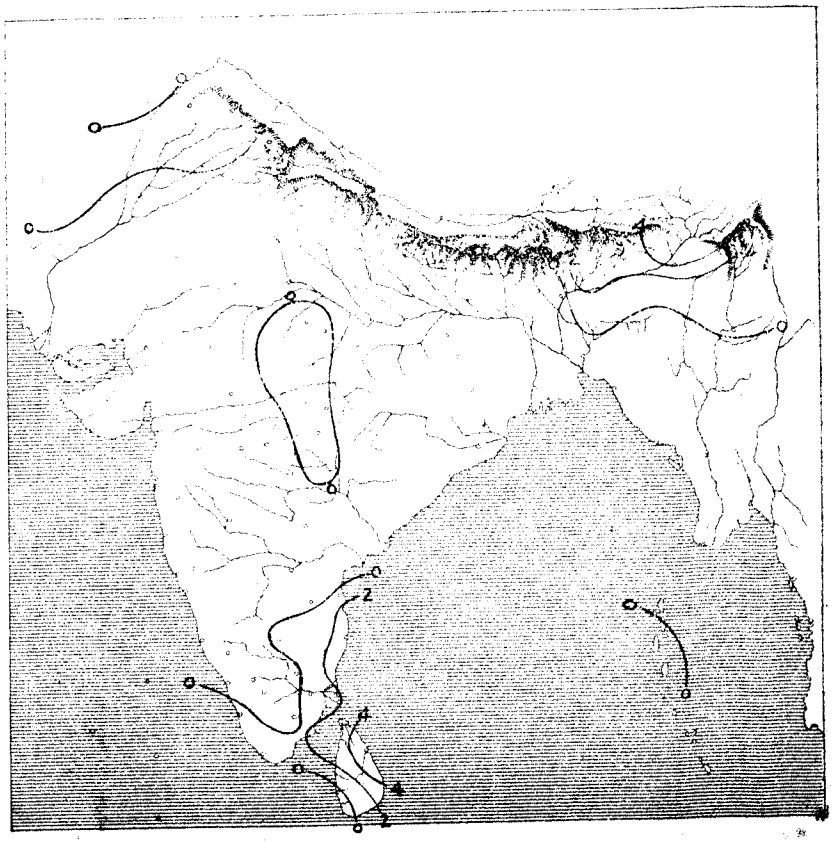
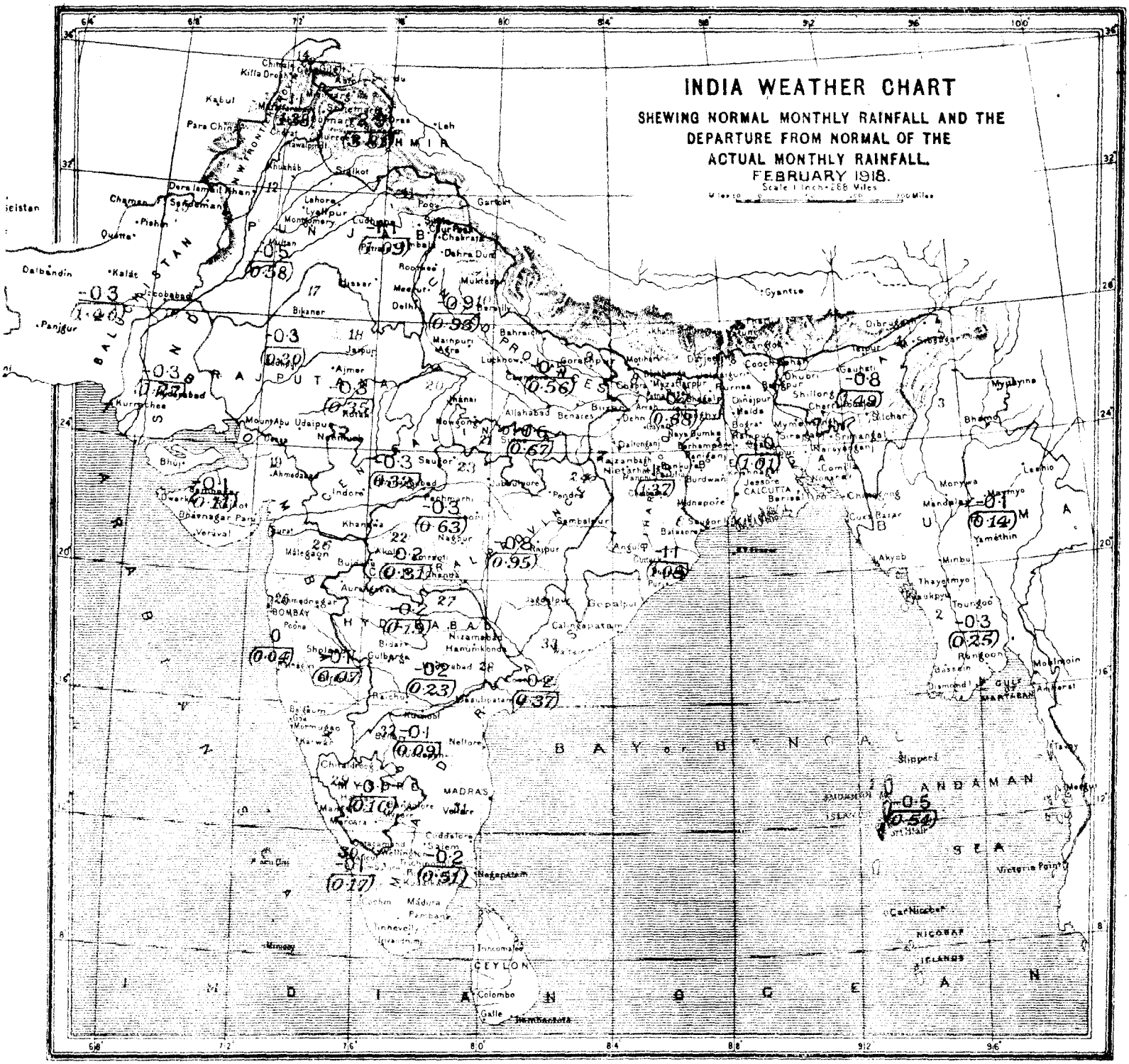


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, MARCH, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of March, 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review have been utilized.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Several disturbances of the winter type appeared over north-west India, and produced abundant rain in Baluchistan, Sind, the North-West Frontier Province, Kashmir, the Punjab and the adjoining districts of the United Provinces as well as in Assam and north Burma. Weather was also unusually disturbed over the greater part of the Peninsula.

More than twice the normal rain fell during the month over the greater part of north-west India, in the Konkan and Mysore; and rainfall was more than 20 per cent. in excess in Assam, and south Madras. Over the rest of the country the month's fall was either normal or below it, the defect amounting to about half an inch in Bihar and Orissa, and the Central Provinces.

Skies were unusually cloudy in north-west India, Hyderabad and Burma; humidity also was decidedly above the average in the first named area.

On the mean of the month the mean temperature did not differ from the average by more than 2½° in any of the divisions; but weather was appreciably warmer than usual over the greater part of northern India during the first ten days of the month, while between the 22nd and 28th a well-marked cold wave affected northern India and extended eastwards into Upper Burma and southwards into Mysore.

The mean pressure of the month averaged over the plains of India was only ·008″ above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was fine during the month and solar observations were made on all the days.

Sunspots.—Twenty-eight new groups of spots were recorded as against 19 in February. The mean daily number was 5·0 and the average life of a spot was 5·5 days, the corresponding figures for the previous month being 4·4 and 6·6 respectively. The distribution in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	5	4	1	10°·7	1° & 25°
South . . .	6	7	4	14°·6	4° & 27°

Prominences.—Eighty-five large, 4 metallic, and 2 eruptive prominences were observed. The greatest height attained was only 160″ at latitude —51° east on the 30th.

Magnetic disturbances.—A "great" disturbance was recorded on the 8th and "moderate" disturbances were frequent during the month.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°\ 28'\ 00''$; $h = 2{,}343$m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·3	1	2·5
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Mar. 7th	P	...	...	...	...	...	...	
	e L	9 10 12	...	...	...	...	...	
	M	9 10 42	...	...	60	...	...	
	F	9 16 36	...	...	...	...	...	
„ 16th	e P	14 55 48	...	...	...	...	...	Widening of line.
	F	15 08 06	...	...	...	...	...	
„ 17th	e P	14 22 06	...	...	...	...	...	Widening of line.
	F	14 25 12	...	...	...	...	...	
19th	e P	6 54 42	...	...	...	...	...	Widening of line.
	F	7 06 36	...	...	...	...	...	
„ 20th	e P	0 56 24	...	...	...	...	...	Widening of line.
	F	1 01 30	...	...	...	...	...	
„ 24th	e P	23 31 00	...	...	...	...	...	Widening of line.
	F	23 40 12	...	...	...	...	...	
„ 27th	e P	4 20 00	...	...	...	...	...	Widening of line.
	F	4 33 18	...	...	...	...	...	

S. SITARAMAYYA,
Offg. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of March, 1918, the traces showed 7 calm days, 22 days of small, and two days of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 5th, 6th, 19th, 25th and 26th.

The following table represents the magnetic character of each day during the month.

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	C
2	S	10	S	18	S	26	C
3	S	11	S	19	C	27	S
4	S	12	S	20	S	28	S
5	C	13	S	21	S	29	S
6	C	14	S	22	S	30	C
7	C	15	M	23	S	31	S
8	M	16	S	24	S		

C = calm ; S = small; M = moderate, G = great ; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Easterly declination	0° 30′ 22″.
Horizontal force	0·36884 C. G. S. unit.
Vertical force	0·16937 C. G. S. unit.
Inclination	24° 39′·9.
Horizontal force range	0·00063 C. G. S. unit.
Horizontal force summed range	0·00402 C. G. S. unit.
Declination range	3′·0.
Declination summed range	10′·6.

(NOTE.—Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ *m. Subsoil* Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	20	32		
AZ:				

Date.	Phase.	Time, G. M. T.	Period. (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Mar. 24th	P	23 19 53	...	...	...	...	...	
	M	23 28 32	...	...	35	...	...	
„ 31st	P	8 8 17	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.

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5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6{\cdot}4$ *m. Subsoil* Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period. (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Mar. 24th	P	23 23 36	?	...	...	...	...	
	S	23 26 48	3	...	...	...	...	
	L	23 31 12	5	...	...	...	...	
	F	23 48 36	...	...	...	...	...	
„ 27th	P	4 1 42	...	...	...	...	...	
	S	4 10 48	...	...	...	...	...	
	F	4 25 0	...	...	...	...	...	
„ 31st	P	8 1 30	?	...	...	...	...	
	S	8 3 30	4	...	...	...	...	
	F	8 19 30	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ *km. Subsoil* Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 Kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Mar. 24th	P	23 21 18	...	...	...	...	...	
	S	23 23 30	...	...	...	...	...	
	L	23 25 6	...	...	...	...	...	
	M	23 25 30	12	107	...	...	...	
	F	23 40 36	...	...	...	...	...	
„ 26th	iP	1 24 54	...	...	...	...	...	
	F	1 27 12	...	...	...	...	...	Very slight local shock.

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
		h. m.	sec.			
Waltair . .	Mar. 8th	15 7	45	3	1	
Moshed (Persia) .	„ 25th	0 25	1	3	1	
„ „ .	„ 30th	1 7	3	3	1	
Meshed (Persia) .	Mar. 30th	3 25	1	3	1	
Barjuli (District Darrang, Assam).	„ 31st	7 53	17	5	2	
Salonah (District Nowgong, Assam).	„ 31st	8 3	7	6	2	
Sibsagar . . .	„ 31st	9 0	...	...	1	

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Weather in the Indian Ocean.

7. Pressure was slightly higher than usual in the equatorial belt as represented by Zanzibar and Seychelles. Winds were much below their average strength at Mauritius and Zanzibar and were weak also at Seychelles. The direction was very unusual at Zanzibar and somewhat more westerly than usual at Seychelles. Rainfall was 76 per cent. in defect at Seychelles and 33 per cent. in defect at Zanzibar, but was in slight excess at Mauritius.

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	—·007	+·014	+·018
Actual mean wind direction . .	S 79° E	N 76° E	N 5° W
Normal mean wind direction . .	S 76° E	S 27° E	N 17° W
Actual mean wind velocity (miles per diem).	42	67	75
Normal mean wind velocity (miles per diem).	59	94	86
Rainfall departure from normal . .	+2·22	—2·13	—7·58

Depressions and cyclonic storms.

8. No less than 8 disturbances of the cold weather type affected the weather in northern India during the month ; of these 7 appeared in rapid succession between the 1st and the 23rd. The 1st and the 4th were feeble and occasioned precipitation only in Kashmir, while the rainfall due to the 2nd and 3rd fell chiefly in north Baluchistan, the Punjab, the North-West Frontier Province and Kashmir. The rainfall associated with the 5th (15th to 17th), 6th (18th to 21st) and 7th (22nd and 23rd) disturbances was widespread in Baluchistan, Sind, the Punjab, the North-West Frontier Province and Kashmir and the western districts of the United Provinces. The 8th disturbance which entered the extreme north of India on the 27th was giving rain in Baluchistan, the Punjab, the North-West Frontier Province and Kashmir at the close of the month.

Pressure.

9. On the mean of the month the atmospheric pressure was sensibly normal in north-east India, the North-West Frontier Province, Rajputana and the Bombay Presidency excluding Sind, but slightly higher than usual over the rest of the country.

The vertical gradient was steeper than usual between Murree and Peshawar, in the Sind-Baluchistan region, the Central Provinces and the south of the Peninsula, and of normal strength elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·012
Assam	—·001
Bengal	—·001
Bihar and Orissa	+·003
United Provinces	+·012
Punjab	+·010
North-West Frontier Province	—·001
Sind	+·016
Rajputana	+·003
Bombay	+·002
Central India	+·013
Central Provinces	+·011
Hyderabad	+·011
Mysore	+·009
Madras	+·011

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·020	Jacobabad	+·013	+·033
Leh	—·008	Lahore	+·003	+·011
Murree	—·052	Peshawar	—·008	+·044
Simla	+·023	Ludhiana	+·013	—·010
Mukteswar	+·001	Bareilly	+·009	+·008
Darjiling	+·006	Dhubri	—·002	—·008
Mount Abu	+·005	Deesa	+·017	+·012
Pachmarhi	—·013	Khandwa	+·015	+·023
Kodaikanal	—·016	Madura	+·010	+·026

Temperature.

10. On the mean of the month, maximum temperature was below normal by more than 4° in the Punjab Southwest and the North-West Frontier Province, and by 2° to 3° in the east and north Punjab, Baluchistan, Sind, and the Madras Deccan; it was in excess by 2° in Chota Nagpur. Minimum temperature was in slight excess in Assam and Kashmir, and inclined to be low in Mysore, the Madras Deccan and Madras Southeast.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	87·5	75·7	81·6	11·9	—1·3	—0·7	—0·6
2. Lower Burma	91·0	71·2	81·1	19·8	—0·6	—0·4	—0·2
3. Upper Burma	92·4	64·4	78·4	28·0	—0·3	+0·2	—0·5
4. Assam	82·7	63·0	72·9	19·7	—0·9	+2·0	—2·9
5. Bengal	90·1	67·5	78·8	22·7	+0·9	+0·8	+0·1
6. Orissa	94·0	70·0	82·0	24·0	+0·7	—0·4	+1·1
7. Chota-Nagpur	93·5	64·3	78·9	29·2	+2·1	+1·5	+0·6
8. Bihar	91·1	63·1	77·1	27·9	+0·8	+0·5	+0·3
9. United Provinces, East	90·5	61·9	76·2	28·5	—0·1	+1·1	—1·2
10. Do. do., West	88·0	59·6	73·8	28·4	—0·8	+0·1	—0·9
11. Punjab, East and North	79·9	55·8	67·9	24·1	—3·0	—0·3	—2·7
12. Do., Southwest	78·5	55·7	67·1	22·8	—4·6	—0·4	—4·2
13. Kashmir	51·7	33·1	42·5	18·7	0	+2·3	—2·3
14. North-West Frontier Province	73·9	53·3	63·6	20·6	—4·7	—0·1	—4·6
15. Baluchistan	67·6	44·1	55·8	23·5	—3·4	—0·3	—3·1
16. Sind	85·8	63·8	74·8	22·0	—2·6	+0·5	—3·1
17. Rajputana, West	89·3	60·4	74·8	28·9	—0·5	—1·3	+0·8
18. Do., East	89·2	62·0	75·6	27·2	—0·7	+0·1	—0·8
19. Gujarat	92·5	65·6	79·1	26·9	+0·6	+0·5	+0·1
20. Central India, West	90·9	60·5	75·7	30·3	—0·7	—0·3	—0·4
21. Do. do., East	90·7	60·9	75·9	29·8	—0·5	—0·1	—0·4
22. Berar	96·1	68·4	82·3	27·7	—0·7	+0·2	—0·9
23. Central Provinces, West	93·4	64·1	78·7	29·3	—1·1	0	—1·1
24. Do. do., East	94·3	65·3	79·9	29·0	+0·3	+0·3	0
25. Konkan	88·3	74·1	81·2	14·3	+1·5	+0·9	+0·6
26. Bombay Deccan	95·0	64·3	79·7	30·7	—1·6	—0·8	—0·8
27. Hyderabad, North	96·5	67·2	81·9	29·3	—0·7	+0·4	—1·1
28. Do., South	96·5	70·1	83·3	26·3	—1·7	—1·5	—0·2
29. Mysore	90·7	64·4	77·5	26·3	—1·9	—1·7	—0·2
30. Malabar	89·4	75·6	82·5	13·8	0	—0·3	+0·3
31. Madras, South-east	91·8	70·7	81·3	21·0	—1·6	—1·9	+0·3
32. Do., Deccan	98·4	71·0	84·7	27·4	—2·7	—1·8	—0·9
33. Do. Coast, North	90·3	72·0	81·1	18·3	—0·4	—1·1	+0·7

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·5	−0·1	−0·3
Assam	−0·9	+2·0	+0·6
Bengal	+0·9	+0·8	+0·9
Bihar and Orissa	+1·1	+0·4	+0·8
United Provinces	−0·4	+0·7	+0·1
Punjab	−3·4	−0·3	−1·9
North-West Frontier Province	−4·7	−0·1	−2·4
Sind	−2·6	+0·5	−1·0
Rajputana	−0·6	−0·4	−0·5
Bombay	+0·1	+0·2	+0·2
Central India	−0·7	−0·1	−0·4
Central Provinces	−0·6	+0·1	−0·3
Hyderabad	−1·3	−0·9	−1·1
Mysore	−1·9	−1·7	−1·8
Madras	−1·2	−1·4	−1·3

Winds.

11. Winds were weaker than usual in the North-West Frontier Province, Sind, Bombay and Hyderabad.

The steadiness was high in Assam and was low in the North-West Frontier Province, Central India and Mysore.

There were no noteworthy departures from normal in the mean wind direction except on the Coromandel coast where the easterly element was weaker than usual.

TABLE 13.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·1	− 6
Assam	+0·4	+15
Bengal	−0·5	+ 4
Bihar and Orissa	−0·1	+ 3
United Provinces	0	+ 4
Punjab	+0·6	+ 4
North-West Frontier Province	−1·1	−14
Sind	−1·1	− 3
Rajputana	0	+ 6
Bombay	−0·8	− 1
Central India	−0·3	−16
Central Provinces	0	+ 2
Hyderabad	−0·8	+ 7
Mysore	+0·5	−10
Madras	+0·4	0

Humidity and cloud.

12. The air was damper than usual in Baluchistan, the North-West Frontier Province, the Punjab and Sind.

The sky was clouded to more than the usual extent in Baluchistan, the North-West Frontier Province, the Punjab, Kashmir, Burma and Hyderabad; cloud amount was in slight defect in the United Provinces, Central India and Madras Southeast.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	75	— 1	·645	—·015	3·0	+0·8
Assam	86	+ 4	·576	+·035	4·1	0
Bengal	77	0	·650	+·012	3·1	+0·1
Bihar and Orissa	58	— 3	·476	—·011	2·1	+0·1
United Provinces	53	— 1	·383	+·009	1·5	—0·4
Punjab	71	+ 9	·392	+·037	4·1	+0·8
North-West Frontier Province.	77	+ 9	·372	+·013	6·1	+2·1
Sind	65	+11	·476	+·071	2·5	+0·1
Rajputana	42	+ 2	·312	+·017	2·8	0
Bombay	55	— 2	·490	—·019	1·8	+0·4
Central India	45	0	·352	—·001	1·6	—0·4
Central Provinces	38	— 4	·331	—·027	1·6	0
Hyderabad	46	— 1	·437	—·026	1·9	+0·6
Mysore	63	+ 1	·498	—·033	2·3	0
Madras	75	+ 1	·727	—·027	2·1	—0·4

Rainfall.

13. The mean rainfall for the whole of the plains of India was 0·78″ or 18 per cent. above normal; the distribution was, however, very irregular. The total fall of the month was unusually heavy, being more than double the average, in the Punjab, Kashmir, the North-West Frontier Province, Baluchistan, the Konkan and Mysore, and was in excess by 90 per cent. in Hyderabad South, 69 per cent. in Madras Southeast, 46 per cent. in Assam, 32 per cent. in Sind and 24 per cent. in Malabar; the recorded amounts were within 20 per cent. of the normal in Upper Burma, Bengal, Orissa, the United Provinces West, the Bombay Deccan, the Madras Deccan and the Madras Coast North, and in defect by more than 20 per cent. over the rest of the country. The deficiency exceeded 70 per cent in the Bay Islands, Chota Nagpur, Bihar, Central India East, the Central Provinces and Gujarat.

In the regions to the west, rainfall was in considerable excess over the greater part of Persia and in middle Egypt, but either normal or in defect over the remainder of Egypt.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0·5	0·7	0·17	0·63	—0·46	— 73
2. Lower Burma	0·6	0·7	0·48	0·62	—0·14	— 23
3. Upper Burma	1·0	0·9	0·35	0·41	—0·06	— 15
4. Assam	8·6	6·5	5·63	3·85	+1·78	+ 46
5. Bengal	2·4	2·2	1·60	1·71	—0·11	— 6
6. Orissa	2·1	1·9	0·85	1·03	—0·18	— 17
7. Chota Nagpur	0·5	1·8	0·16	1·03	—0·87	— 84
8. Bihar	0·3	1·0	0·08	0·56	—0·48	— 86
9. United Provinces, East	0·7	0·7	0·19	0·34	—0·15	— 44
10. Do. do., West	1·7	1·1	0·64	0·63	+0·01	+ 2
11. Punjab, East and North	4·5	1·7	2·24	0·93	+1·31	+141

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
12. Punjab, South-west	4·8	1·5	1·78	0·63	+1·15	+183
13. Kashmir	10·3	5·8	8·54	4·16	+4·38	+105
14. North-West Frontier Province	8·1	3·9	4·54	2·00	+2·54	+127
15. Baluchistan	7·5	3·3	3·80	1·37	+2·43	+177
16. Sind	1·1	0·5	0·33	0·25	+0·08	+ 32
17. Rajputana, West	0·4	0	0·14	0·23	−0·09	− 39
18. Do., East	0·5	0·5	0·14	0·27	−0·13	− 48
19. Gujarat	0	0·1	0·01	0·08	−0·07	− 87
20. Central India, West	0·4	0·3	0·10	0·21	−0·11	− 52
21. Do., East	0·1	0·6	0·05	0·37	−0·32	− 86
22. Berar	0·1	0·7	0·07	0·35	−0·28	− 80
23. Central Provinces, West	0·4	0·9	0·11	0·55	−0·44	− 80
24. Do., East	0·2	1·2	0·11	0·56	−0·45	− 80
25. Konkan	0·3	0·1	0·15	0·06	+0·09	+150
26. Bombay Deccan	0·3	0·3	0·12	0·15	−0·03	− 20
27. Hyderabad, North	0·3	0·7	0·14	0·37	−0·23	− 62
28. Do., South	0·9	0·7	0·76	0·40	+0·36	+ 90
29. Mysore	1·0	0·6	0·63	0·31	+0·32	+103
30. Malabar	0·7	0·9	0·61	0·49	+0·12	+ 24
31. Madras, Southeast	1·1	0·8	0·86	0·51	+0·35	+ 69
32. Do., Deccan	0·4	0·1	0·17	0·15	+0·02	+ 13
33. Do. Coast, North	0·7	0·8	0·40	0·46	−0·06	− 13

TABLE 16.

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·40	0·50	−0·10	− 20
Assam	5·63	3·85	+1·78	+ 46
Bengal	1·60	1·71	−0·11	− 6
Bihar and Orissa	0·29	0·78	−0·49	− 63
United Provinces	0·43	0·50	−0·07	− 14
Punjab	2·13	0·86	+1·27	+148
North-West Frontier Province	4·54	2·00	+2·54	+127

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·33	0·25	+0·08	+ 32
Rajputana	0·14	0·26	−0·12	− 46
Bombay	0·09	0·11	−0·02	− 18
Central India	0·08	0·27	−0·19	− 70
Central Provinces	0·10	0·50	−0·40	− 80
Hyderabad	0·44	0·38	+0·06	+ 16
Mysore	0·63	0·31	+0·32	+103
Madras	0·62	0·45	+0·17	+ 38
Mean of India	0·78	0·66	+0·12	+ 18

Snowfall.

I.—PERSIA.

14. *Meshed*:—Two falls of snow occurred, on the 14th and 21st, to a total depth of 14½ inches.

II.—AFGHANISTAN.

4 inches of snow fell at Kabul on the 7th, 2 feet on the 8th at Kabul, Koh Safaid and on the Hindu Kush ranges and 8 inches at Kabul on the 22nd.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano*:—Snowfalls occurred on the 8th, 16th, 23rd and 31st. The total fall amounted to 2¼ feet on the Marwatti and Pirghal, 2 feet on Bosh and Drenashtar and half a foot on the Jani Mela. By the end of the month they had all melted away except for a residue of 7 inches on the highest peaks.

(*b*) *Kohat*:—There was a fall of snow to a depth of one foot on the 22nd; this was the heaviest fall during this season.

(*c*) *Hazara*:—There were altogether 18 falls during the month. The following table shows the total amount of snow in the month and the accumulations on the 15th March.

TABLE 17.

Name of pass.	Elevation.	Actual snowfall.		Depth of accumulation on the 15th March 1918.	
	″	′	″	′	″
Narang	8,000	11	6	3	0
Paludran	7,300	8	2	2	0
Kagon	6,600	4	5	0	8
Jared	5,000	0	7	...	
Mankandi . . .	4,500	0	3	...	
Sundaghali . . .	7,000	4	11	...	
Jachha	6,500	3	4	...	
Thandiani . . .	8,800	12	9	2	1
Dungagali . . .	8,000	3	2	2	4

IV.—KASHMIR.

(*a*) *Srinagar*:—Snow on the hills and rain in the valleys were of occasional occurrence during the month, while on the 21st and 23rd snow fell also in the Srinagar valley. The total precipitation at Srinagar was 5·34″.

(*b*) *Skardu*:—Snowfalls occurred on the hills surrounding the station on 12 days in the month and once even extended to the level of the station. The fall measured 1 foot on each of the dates 7th, 8th, 19th and 20th and ½ foot on the 16th and 28th. The unmelted accumulations at the end of the month amounted to more than 3 feet on the higher mountains and one foot on the lower hills.

(*c*) *Dras*:—Snow fell on as many as 22 days in the month to a total depth of 6½ feet.

(*d*) *Kargil*:—Snowstorms occurred on no less than 16 days in the course of the month on the hills surrounding the station and extended to the base of the hills on almost all days. The total fall amounted to 20 feet on the Archulla, 14½ feet on the Nakthulla and 11 feet on the other mountains. The unmelted residue at the end of the month was 7 feet on Archulla, 5 feet on Nakthulla, 4 feet on Samenulla, 3 feet on Narainulla and about 2 feet on Pazgolla and Barolla.

V.—PUNJAB.

(*a*) *Chamba*:—Snow fell on four occasions to a total depth of about 1 foot and between the 22nd and 24th came down as low as 3,750 feet.

(*b*) *Kilba* (*Simla Hills*):—Light snowfalls occurred on the Kilba Nachar hills on seven occasions between the 3rd and the 22nd on heights above 7,000 feet, while on the 23rd and 24th, 10″ and 7″ of snow respectively fell down to a level of 5,750 feet. All the passes remained closed throughout the month and the following gives the depth of snow lying on the passes at the close of the month.

TABLE 18.

Name of pass.	Actual.	Normal.
	Feet.	Feet.
Rupan	15	13½
Brua	12	13½
Shatul	12	12
Harang	9	5½

VI.—UNITED PROVINCES.

(*a*) *Garhwal*:—1½ feet of snow is reported to have fallen on the mountain peaks in the north of the district.

(*b*) *Almora*:—The following statement gives the aggregate fall of snow during the month and the distance to which the snowline descended below the perpetual snowline.

TABLE 19.

Name of peak.	Total fall.	Distance to which the snowline descended.
	Feet.	Miles.
Malla Danpur	4	3 or 4
Malla Darma	8½	14
Byans	16⅓	10 to 11
Chaudas	7½	1¾
Malla Johar	5¾	...

The snow accumulations at the end of the month on well-known peaks and passes were as follows :—

TABLE 20.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	19	31
Lampia pass	15 or 16	18½
Lipulekh pass	12 or 13	18½
Binkaru pass	9	20
Untadhura	6	15
Balamdhura	3	11½
Milamdhura	2	7½
Pindari peak	4	5½
Kapkeni peak	4	5½
Nandakot	4	...

VII.—NORTH-EAST HIMALAYAS.

Sikkim:—2¾ feet of snowfall occurred during the month at Yatung.

North-east Frontier district:—Several snowstorms occurred during the month, and once snow fell as low down as 6,500 feet.

SUMMARY.

15. The snowfall of the month was much heavier than usual in the mountain regions around the Punjab and the United Provinces, and was also in excess in Persia and Afghanistan as well as in the northeast frontier tract.

V. DORAISWAMY IYER.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in March, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·917	29·782	·135	29·843	—·013	29·811	93·2	70·8	22·4	98·8	60·9	37·9	84·6	91·3	81·1	+1·8	67·0	72·8	71·4	70
	VI.—Punjab.																					
11	Lahore . .	702	29·231	29·144	·087	29·182	+·015	29·870	78·3	56·1	22·2	88·3	46·3	42·0	69·1	76·9	66·5	—2·5	53·5	61·0	64·1	59
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·529	28·419	·110	28·466	+·013	29·837	89·2	61·1	28·1	97·5	43·4	54·1	80·1	87·6	74·8	— 0·1	52·7	60·3	61·6	58
	X.—Bombay.																					
25	Bombay . .	37	29·921	29·809	·112	29·877	0	29·853	87·7	74·4	13·3	90·6	65·7	24·9	81·1	83·5	81·0	+3·0	68·8	72·7	74·5	72
	XIV.—Mysore.																					
29	Bangalore . .	3,021	27·014	26·894	·120	26·949	+·017	29·755	89·4	62·4	27·0	94·4	57·4	36·6	80·9	87·5	74·9	—1·8	57·6	62·9	63·4	61
	XV.—Madras.																					
31	Pudukkottai .	318	29·580	29·527	·153	29·603		29·849	94·4	71·6	22·8	102·9	67·1	35·8	84·4	91·4	83·0			72·7	71·6	
	Madras . .	22	29·974	29·855	·119	29·915	+·010	29·867	88·1	70·9	17·2	91·7	66·6	25·1	84·2	84·8	77·9	—1·6	70·6	76·2	76·4	74
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·665	25·590	·075	25·624	+·013	25·579	78·7	47·7	31·0	84·5	39·3	45·2	67·8	74·3	63·5	+2·7	44·5	55·9	57·4	52
	Kodaikanal . .	7,688	22·875	22·819	·056	22·847		22·782	68·5	47·9	20·6	74·2	44·2	30·0	62·3	61·6	58·2		41·3	49·8	52·8	49
	Extra India.																					
	Seychelles . .	15	29·865	29·871	·094	29·923	+·018†	29·861	84·3	78·0	6·3	85·8	74·6	11·2	82·0	83·3	80·1	+1·2†	71·6	76·4	76·7	74
	Mauritius . .	181				29·749	—·018	29·815	83·7	70·7	13·0	86·4	64·6	21·8			76·6	—0·9				72

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

A.

at 11 stations in India, etc., in March, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·615	·662	·504	·634	—·009	81	55	35	62	— 5	1·8	1·8	1·8	—0·4	0	1	2	1	0	11	27	11	9	S 58° W	S 60° W	65	44	99	86	0·82	0·53	Calcutta.	5
																															VI.—Punjab.	
·379	·423	·429	·423	+·063	33	61	48	66	+12	5·0	5·3	5·1	+1·6	10	4	8	0	9	1	0	6	24	N 30° W	N 12° W	35	31	47	51	2·36	0·92	Lahore.	11
																															IX.—Rajputana.	
·301	·284	·227	·275	—·030	54	27	17	36	— 3	2·5	3·9	3·2	+0·1	4	7	2	4	3	2	7	17	15	N 67° W	N 46° W	45	30	79	79	0·08	0·06	Jaipur.	18
																															X.—Bombay.	
·635	·693	·738	·689	—·048	74	65	64	68	— 7	1·7	1·4	1·5	+0·2	0	3	7	6	6	1	2	13	24	N 43° W	N 36° W	40	46	150	191	1·46	1·35	Bombay.	25
																															XIV.—Mysore.	
·423	·372	·304	·375	—·072	75	37	24	47	— 3	1·0	2·0	1·5		2	1	4	32	13	4	2	3	1	S 75° E	S 36° E	64	46	139	86	1·18	0·90	Bangalore.	23
																															XV.—Madras.	
	·641	·509				55	35			3·9	2·7	3·3		17	1	9	13	8	11	2	1	0	S 65° E		40		80		0·25	0·25	Pudukkottai.	31
·748	·794	·794	·803	+·001	98	67	66	81	+ 3	1·9	1·1	1·5	—0·7	0	0	0	10	37	14	1	0	0	S 41° E	S 44° E	87	81	83	109	0·02	0·02	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·266	·310	·279	·283	—·018	80	46	34	54	— 7	3·1	4·3	3·7	+0·4	0	1	1	32	0	1	0	27	0	N 83° E	N 82° W	10	47	18	23	0·19	0·09	Katmandu.	
·193	·228	·307	·243		57	41	57	52		1·3	3·8	2·5		0	26	7	3	18	1	0	9	7	N 35° E		43		231		1·02	0·37	Kodaikanal.	
																															Extra India.	
·693	·835	·831	·813	—·048	72	76	73	78	— 5	4·5	5·6	5·1	—1·6†	13	8	13	4	0	2	0	1	21	N 5° W	N 17° W	48	39	75	86	2·33	1·34	Seychelles.	
			·984	—·016				81	+ 1			6·0	0	-									S 79° E	S 76° E			130	180	11·43	3·44	Mauritius	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in March 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·012	91·5	−0·5	68·4	−0·1	80·0	−0·2	23·2	+0·1	− 6	75	− 1	·645	−·015	3·0	+0·8	0·40	0·50	−0·10
Assam	−·001	82·7	−0·9	63·0	+2·0	72·9	+0·6	19·7	+0·4	+15	86	+ 4	·576	+·035	4·1	0	5·63	3·85	+1·78
Bengal	−·001	90·1	+0·9	67·5	+0·8	78·8	+0·9	22·7	−0·5	+ 4	77	0	·650	+·012	3·1	+0·1	1·60	1·71	−0·11
Bihar and Orissa	+·003	92·5	+1·1	65·4	+0·4	79·0	+0·8	27·1	−0·1	+ 3	58	− 3	·476	−·011	2·1	+0·1	0·29	0·78	−0·49
United Provinces of Agra and Oudh	+·012	89·3	−0·4	60·9	+0·7	75·1	+0·1	28·5	0	+ 4	53	− 1	·383	+·009	1·5	−0·4	0·43	0·50	−0·07
Punjab	+·010	75·5	− 3·4	55·8	−0·3	67·6	−1·9	23·7	+0·8	+ 4	71	+ 9	·392	+·037	4·1	+0·8	2·13	0·86	+1·27
North-West Frontier Province	−·001	75·9	−4·7	53·3	−0·1	63·6	−2·4	20·6	−1·1	−14	77	+ 9	·372	+·013	6·1	+2·1	4·54	2·00	+2·54
Sind	+·016	85·8	−2·6	63·8	+0·5	74·8	−1·0	22·0	−1·1	− 3	65	+11	·476	+·071	2·5	+0·1	0·33	0·25	+0·08
Rajputana	+·003	89·2	− 0·6	61·4	−0·4	75·3	− 0·5	27·8	0	+ 6	42	+ 2	·312	+·017	2·8	0	0·14	0·26	−0·12
Bombay	+·002	92·4	+0·1	67·0	+0·2	79·7	+0·2	25·4	−0·8	− 1	55	− 2	·490	−·019	1·8	+0·4	0·09	0·11	−0·02
Central India	+·013	90·8	− 0·7	60·7	−0·1	75·8	−0·4	30·1	−0·3	−16	45	0	·352	−·001	1·6	−0·4	0·09	0·27	−0·19
Central Provinces	+·011	94·3	− 0·6	65·5	+0·1	79·9	−0·3	28·8	0	+ 2	38	− 4	·331	−·027	1·6	0	0·10	0·50	−0·40
Hyderabad	+·011	96·5	−1·3	68·9	−0·9	82·7	−1·1	27·6	−0·8	+ 7	46	− 1	·437	−·026	1·9	+0·6	0·44	0·38	+0·06
Mysore	+·009	90·7	−1·9	64·4	−1·7	77·5	−1·8	26·3	+0·5	−10	63	+ 1	·498	−·033	2·3	0	0·63	0·31	+0·32
Madras	+·011	91·8	−1·2	71·9	−1·4	81·9	−1·3	19·9	+0·4	0	75	+ 1	·727	−·027	2·1	−0·4	0·62	0·45	+0·17

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.						Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·818		29·895	29·896	4th	29·736	27th	79·2	75·7	89·5		74·4		81·9		15·1	94·6	31st	71·2	10th
	Mergui	66	29·915	+·021	29·911	30·018	3rd	29·815	27th	76·8	73·4	90·4	−0·6	72·2	−0·4	81·3	−0·5	18·2	94·2	30th	69·6	9th
	Tavoy	19	29·956	−·001	29·908	30·052	3rd	29·841	27th	76·0	72·9	92·2	−0·9	69·0	−1·6	80·6	−1·3	23·2	95·0	31st	63·8	23rd
	Moulmein	94	29·890	+·026	29·923	29·994	3rd	29·763	27th	78·9	73·0	93·3	−0·8	72·3	−0·6	82·8	−0·7	21·0	96·2	5th	69·9	15th
	Rangoon	18	29·955	+·022	29·911	30·067	3rd	29·834	27th	74·7	71·3	95·3	−0·8	70·7	−0·5	83·0	−0·7	24·6	100·3	27th	67·1	11th
	Bassein	27	29·953	+·028	29·917	30·071	3rd	29·827	27th	76·9	72·8	94·3	+0·2	70·3	−0·7	82·3	−0·3	24·0	98·2	8th & 31st.	65·4	15th
	Diamond Island	41	29·931	+·016	29·906	30·035	4th	29·826	27th	73·2*	73·8*	84·5*	−0·4	76·4*	+1·3	80·4*	+0·5	8·1	87·4	5th	75·0	4 days.
	Toungoo	164	29·792	+·021	29·900	29·914	4th	29·665	27th	76·4	71·2	96·9	−0·5	69·5	+1·1	83·2	+0·3	27·4	99·9	27th	65·9	5th & 6th.
	Kyaukpyu	18	29·942		29·900	30·056	4th	29·829	27th	76·1	72·6	85·4		70·3		77·8		15·1	90·7	31st	66·2	3rd
	Akyab	20	29·935	+·001	29·896	30·053	4th	29·834	21st	74·4	70·6	87·8	−0·8	66·9	−1·8	77·4	−1·3	20·9	90·8	29th	61·8	4th
	Minbu	165	29·770	+·007	29·880	29·905	4th	29·656	24th	76·2	65·5	98·4	−0·1	69·4	−0·1	83·9	−0·1	29·0	102·5	25th	64·0	3rd
	Yamethin	644	29·289	+·017	29·889	29·408	3rd	29·178	27th	76·1	66·7	96·7	−1·4	68·5	0	82·6	−0·7	28·2	99·7	27th	64·5	4th & 10th.
	Mandalay	250	29·682	+·010	29·883	29·818	3rd	29·543	21st	77·9	65·7	99·0	+1·3	68·8	+0·5	83·9	+0·9	30·2	101·6	25th	64·1	10th
	Monywa	280	29·661	+·006	29·894	29·788	3rd	29·532	24th	74·4	64·9	96·6	+0·9	68·0	+1·9	82·3	+0·9	28·6	100·8	8th & 25th.	63·1	27th
	Lashio	2,890	27·144	+·005	27·090	27·249	7th	27·025	24th	62·6	57·7	84·4	−1·6	55·3	−0·4	69·9	−1·0	29·1	87·1	7th, 8th & 31st.	49·0	17th
	Bhamo	361	29·562	+·011	29·888	29·706	16th	29·418	21st	66·2	63·6	87·3	−0·8	59·1	−0·5	73·2	−0·7	28·2	92·4	30th	52·5	29th
	Myitkyina	458	29·462	−·008	29·838	29·607	16th	29·313	21st	66·0	62·2	84·3	−0·6	61·6	+0·7	72·9	+0·1	22·7	91·6	30th	57·2	28th
	II.—Assam.																					
4	Dibrugarh	353	29·586	−·009	29·913	29·702	3rd	29·475	21st	65·3	62·9	77·1	−0·6	61·7	+1·5	69·4	+0·5	15·4	84·6	31st	56·5	13th
	Sibsagar	333	29·613	−·007	29·918	29·742	4th	29·441	21st	64·8	63·6	76·5	−2·3	61·6	+1·9	69·1	−0·2	14·9	84·2	31st	56·0	13th
	Tezpur	252	29·696	+·011	29·916	29·799	4th	29·560	24th	66·4	63·5	81·1	−1·5	62·8	+1·2	72·0	−0·1	18·3	85·6	9th & 31st.	58·0	27th
	Gauhati	196	29·750	0	29·908	29·871	4th	29·607	21st	68·4	65·1	83·5	−2·0	62·1	+3·1	72·8	+0·5	21·4	89·3	31st	53·1	28th
	Dhubri	115	29·802	−·002	29·874	29·913	4th	29·646	21st	70·6	65·5	87·1	+1·0	65·4	+2·7	76·2	+1·9	21·7	90·9	7th	59·7	28th
	Silchar	104	29·860	+·004	29·922	29·961	7th	29·708	21st	68·9	66·5	84·0	−2·1	64·4	+1·3	74·2	−0·4	19·6	89·6	11th	59·1	2nd
	Srimangal	66	29·876		29·893	29·986	4th	29·711	21st	67·2	65·6	89·7	+1·1	62·9	+2·4	76·3	+1·7	26·8	96·7	12th	53·0	28th
	III.—Bengal.																					
5	Cox's Bazar	36	29·916		29·896	30·027	4th	29·793	21st	74·2	71·1	86·4		66·6		76·5		19·8	88·9	13th	62·7	28th
	Chittagong	87	29·863	+·001	29·898	29·972	4th	29·726	21st	71·3	69·5	86·7	−0·1	66·5	−0·9	76·6	−0·5	20·2	90·1	9th	61·2	29th
	Noakhali	43	29·909	+·011	29·899	30·026	4th	29·753	21st	76·5	72·9	86·4	0	66·9	+2·6	78·2	+1·3	16·5	90·3	31st	60·8	28th & 29th.
	Barisal	12	29·921	−·002	29·880	30·019	4th	29·763	21st	75·9	72·4	89·1	−0·1	66·9	+1·1	79·5	+0·5	19·2	93·8	10th & 11th.	61·6	28th
	Narayanganj	26	29·904	−·002	29·879	30·011	4th	29·754	21st	74·5	70·3	90·0	+0·5	66·9	+0·7	79·5	+0·6	21·1	95·9	12th	62·4	27th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 22 days.

B.

stations in India, etc., in March, 1918.

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st March, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
2	0	19	5	2	0	0	1	2	N 53° E		7·2			69		84		·844		4·5		2		0·50	0·97	−0·47	2·09	3·68	−1·59	0·31	Victoria Point.
6	0	1	12	11	0	0	0	1	S 72° E	N 27° W	4·5	1·6	+2·9	69	+16	84	+ 1	·779	−·058	9	−2·9	8	+3·5	6·74	2·89	+ 3·85	8·10	6·38	+ 1·72	3·20	Mergui.
22	3	4	1	1	0	0	0	0	N 42° E	N 34° W	1·6	1·2	+0·4	27	+ 9	86	0	·766	−·009	2·4	+1·3	4	+1·8	3·30	1·52	+ 1·78	4·83	2·46	+ 1·97	2·32	Tavoy.
5	0	8	14	1	1	1	1	0	N 80° E	S 58° E	3·3	2·4	+0·9	62	− 3	74	− 6	·734	−·045	2·4	+0·3	0	−0·3	0	0·42	− 0·42	1·70	1·08	+ 0·62	0	Moulmein.
5	2	1	0	2	4	4	9	4	S 78° W	S 64° W	4·1	3·2	+0·8	43	−25	84	− 1	·719	−·021	4·6	+2·2	0	−0·6	0·01	0·34	− 0·33	1·03	1·18	− 0·15	0·01	Rangoon.
21	1	0	0	0	0	0	7	2	N 74° W	N 55° W	3·0	4·1	−1·1	27	−41	82	− 3	·756	−·024	3·2	+1·4	0	−0·2	0	0·16	− 0·16	2·09	0·99	+ 1·10	0	Bassein.
1	7	1	2	0	0	1	3	9	N 29° W	N 30° W	8·7*	6·8	+1·9	63	−10	77†	0	·765†	−·006	2·1	−0·5	0	−0·3	0	0·20	− 0·20	3·40	1·42	+ 1·98	0	Diamond Island.
6	2	2	2	13	6	0	0	0	S 47° E	S 51° E	2·2	2·3	−0·1	59	+16	76	+ 2	·692	+·015	5·8	+3·6	0	−0·5	0·05	0·35	− 0·30	0·26	1·19	− 0·93	0·04	Toungoo.
27	1	1	1	1	0	0	0	0	N 67° E		1·5			7		89		·758		4·0		1		0·28	0·60	− 0·32	0·57	1·10	− 0·53	0·28	Kyaukpyu.
3	6	14	2	2	1	0	0	3	N 35° E	N 32° E	3·1	2·7	+0·4	62	−13	83	− 1	·698	−·011	4·6	+2·2	2	+1·2	0·56	0·52	+ 0·04	0·73	1·42	− 0·69	0·28	Akyab.
5	2	1	1	12	2	1	0	7	S 52° E	S 63° E	2·5	5·4	−2·9	20	− 3	54	− 3	·487	−·033	2·0	+1·0	1	+0·5	0·15	0·35	− 0·20	0·15	0·98	− 0·83	0·15	Minbu.
																60	− 2	·533	−·024	0·4	−0·5?	0	−0·6	0·02	0·40	− 0·38	0·23	1·23	− 1·00	0·02	Yametha
18	0	0	0	5	6	1	0	0	S 16° E	S 8° W	2·5	3·1	−0·6	33	+7	50	− 4	·469	−·032	2·8	+1·4	0	−0·5	0·07	0·22	− 0·15	0·09	0·69	− 0·60	0·04	Mandalay.
7	11	1	1	2	1	0	0	8	N 10° W		2·2			49		58	− 1	·490	−·006	2·5	+0·8	1	+0·1	0·23	0·42	− 0·19	0·23	0·86	− 0·63	0·16	Monywa.
18	1	3	1	1	0	2	1	4	N 21° W		2·4			13		74	+ 4	·416	+·005	1·2	−1·9	3	+1·7	1·16	0·62	+ 0·54	1·16	2·17	− 1·01	0·49	Lashio.
27	1	3	0	0	0	0	0	0	N 34° E	N 3° W	1·0	2·4	−1·4	13	−16	86	+ 5	·552	+·029	4·0	+1·1	4	+2·3	2·04	0·73	+ 1·31	2·21	2·33	− 0·12	1·33	Bhamo.
24	1	3	2	0	1	0	0	0	N 62° E		3·0			13		80	+ 1	·506	−·009	5·0	+1·4	1	−1·9	1·39	0·95	+ 0·35	1·53	2·72	− 1·19	1·07	Myitkyina.
																															II.—Assam.
13	2	6	7	1	1	0	0	1	N 65° E		1·1			40		87	+ 1	·542	+·034	4·9	−0·7	14	+5·8	5·69	4·23	+ 1·46	7·70	8·52	− 0·82	1·13	Dibrugarh.
15	4	8	3	0	0	0	0	1	N 38° E	N 51° E	1·5	2·2	−0·7	43	−7	93	+ 1	·571	+·024	7·1	+1·1	13	+3·5	5·94	4·75	+ 1·19	9·38	8·61	+ 0·77	1·50	Sibsagar.
5	0	13	13	0	0	0	0	0	N 68° E		2·3			79		85	+ 4	·549	+·043	4·2	+1·1	8	+2·6	3·32	2·01	+ 1·31	3·53	4·03	− 0·50	0·81	Tezpur.
20	2	2	6	0	0	1	0	0	N 67° E		1·7			23		83	+ 4	·575	+·073	3·7	−1·0	3	−1·5	1·66	2·24	− 0·58	2·45	4·22	− 1·77	0·71	Gauhati.
3	0	13	12	0	0	3	0	0	N 70° E	N 72° E	6·6	4·6	+2·0	66	+19	75	0	·562	+·042	1·7	−0·7	0	−2·7	0·08	1·88	− 1·80	0·18	3·05	− 2·87	0·08	Dhubri.
14	1	7	9	0	0	0	0	0	N 66° E	S 83° E	2·2	2·2	0	99	+36	88	+ 7	·618	+·034	4·5	+0·4	13	+3·4	12·05	8·03	+ 4·02	12·22	11·47	+0·75	2·90	Silchar.
																91	+ 8	·614	−·003	2·8		6	+1·8	4·75	3·91	+ 0·84	4·93	6·51	−1·58	2·22	Srimangal.
																															III.—Bengal.
23	0	2	4	1	1	0	0	0	S 87° E		2·6			20		86		·723		2·3		2		3·35	1·66	+ 1·69	3·35	2·91	+0·44	2·35	Cox's Bazar.
16	0	2	12	1	0	0	0	0	N 87° E	N 87° E	2·0	4·0	−2·0	46	− 8	88	+ 6	·688	+·007	4·8	+1·6	4	+1·1	4·82	2·66	+ 2·16	4·82	4·81	+0·01	2·66	Chittagong.
8	0	3	1	13	5	0	1	0	S 43° E		3·3			52		83	− 1	·760	+·020	3·8	+0·7	5	+1·8	4·20	2·67	+ 1·53	4·20	4·53	−0·33	1·32	Noakhali.
11	0	1	0	1	10	8	0	0	S 15° W	S 18° W	2·2	2·7	−0·5	56	+43	84	0	·746	+·005	4·9	+1·5	3	−0·3	3·50	2·26	+ 1·24	3·52	4·28	−0·76	1·34	Barisal.
10	0	1	1	2	7	7	3	0	S 21° W	S 13° W	2·4	3·7	−1·3	46	+ 7	80	− 3	·688	+·001	5·1	+0·4	5	+1·6	2·64	2·69	− 0·05	2·72	4·57	− 1·85	0·70	Narayanganj.

* Mean of 23 days.
† „ „ 23

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·869	+·003	29·880	29·976	4th	29·690	21st	71·2	67·4	88·7	+1·5	66·9	+2·5	77·8	+2·0	21·8	93·3	12th	59·6	28th
	Bogra	75	29·843	+·002	29·871	29·948	4th	29·655	21st	71·1	67·2	92·4	+2·2	63·6	+0·4	78·0	+1·3	28·8	96·0	7th	55·5	28th
	Dinajpur	123	29·785	+·002	29·865	29·888	4th	29·600	21st	70·7	64·2	90·6	+1·6	62·9	+2·4	76·8	+2·0	27·7	96·8	25th	52·5	27th
	Jalpaiguri	283	29·636	+·006	29·886	29·741	4th	29·477	21st	66·7	62·7	86·6	+2·0	61·6	+1·9	74·1	+1·9	25·0	92·0	25th	50·8	26th
	Saugor Island	10	29·923	+·006	29·878	30·031	4th	29·782	21st	79·0	74·6	86·4	−0·6	72·4	−2·2	79·4	−1·4	14·0	92·9	11th	62·0	13th
	Midnapore	149	29·748	−·028	29·847?	29·830	1st	29·583	21st	77·6	67·5	93·8	+2·0	70·0	+0·7	83·4	+1·3	26·8	101·4	6th	62·5	28th
	Calcutta	21	29·899	−·007	29·867	29·983	4th	29·740	21st	75·3	71·3	93·1	+2·2	70·8	+1·5	31·9	+1·9	22·3	98·8	10th	60·9	13th
	Jessore	30	29·906	+·013	29·881	29·991	4th	29·759	21st	74·2	70·2	91·2	−0·4	67·9	+0·1	79·5	−0·1	23·3	96·4	12th	56·8	13th
	Burdwan	99	29·808	−·013	29·856	29·893	7th	29·660	21st	74·6	67·9	94·1	+0·7	67·5	−0·6	80·8	+0·1	26·6	99·6	10th	60·4	28th
	Berhampore	67	29·850	0	29·867	29·939	4th	29·701	21st	74·8*	65·7*	93·5*	+1·5*	66·6*	+1·0*	80·1*	+1·3	26·9	98·4	12th	60·0	28th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·874	−·005	29·870	29·971	4th	29·713	21st	75·9	70·2	93·8	+1·5	69·6	+0·2	81·7	+0·9	24·2	99·7	10th	62·3	13th
	Hukitala (False Point)	29	29·915	+·005	29·885	30·039	4th	29·757	21st													
	Cuttack	80	29·864	+·013	29·886	29·980	4th	29·695	21st	75·7	72·0	97·0	+0·2	71·2	−1·3	81·1	−0·5	25·8	101·3	7th	67·2	8th
	Puri	24	29·926	+·011	29·891	30·049	4th	29·779	21st	78·3	74·2	86·5	+0·2	75·9	+0·7	81·2	+0·5	10·6	93·4	11th	70·5	11th
	Angul	455	*29·774*	−·011	29·881	29·587	4th	29·303	21st	76·5	67·3	96·8†	+2·0	67·8	+0·3	82·3†	+1·1	29·0	102·2	21st	60·0	28th
	Sambalpur	486	29·443	+·001	29·890	29·547	7th & 8th	29·272	21st	75·4	64.6	96·0	−0·2	65·4	−1·9	80·7	−1·1	30·6	99·7	21st	55·9	28th
7	Chaibasa	*733*	29·178	0	29·876	29·270	8th	29·026	21st	72·6	62·3	95·7	+2·4	66·3	+2·1	81·0	+2·3	29·4	95·1	22nd	58·5	28th
	Ranchi	2,128	27·791	+·008	29·857	27·868	8th	27·654	21st	72·8	58·4	88·0	+0·6	65·1	+1·6	76·6	+1·1	22·9	93·8	5th	56·8	27th
	Puralia	*816*	29·098	+·001	29·878	29·211	7th	28·958	24th	74·6	63·7	96·2	+3·2	67·1	+0·9	81·6	+2·1	29·1	101·5	5th	61·9	28th
	Daltonganj	*730*	29·191	+·003	29·901?	29·289	7th	29·037	21st	65·2	59·0	94·1	+4·2?	58·6	−0·7	76·3	+1·7?	35·5	101·2	5th	48·9	27th
8	Purnea	124	29·779	−·005	29·862	29 870	4th	29·610	21st	69·4	62·4	90·1	+0·5	60·2	0	75·2	+0·3	29·9	94·9	25th	51·4	27th
	Monghyr	155	29·737		29·849?	29·813	7th	29·609	21st	72·8	61·2	90·4		64·5		77·5		25·9	96·2	31st	57·1	26th
	Darbhanga	165	29·740	+·004	29·864	29·827	8th	29·625	21st	70·8	62·1	88·8	+1·0	60·0	−2·2?	74·4	−0·6?	28·8	93·1	31st	51·2	27th
	Pusa	188	29·714		29·862	29·788	4th	29·592	21st	70·0	61·5	91·5		59·6		75·6		31·9	96·9	31st	53·1	26th
	Patna	183	29·732	+·010	29·874	29·814	4th	29·588	21st	73·2	61·3	89·4	−0·8	65·3	+1·4	77·4	+0·3	24·1	96·7	31st	58·5	27th
	Buxar	239	29·660	−·004	29·863	29·734	8th	29·534	23rd	68·6	58·5	91·5	+1·3	63·6	+0·2	77·6	+0·7	27·9	97·8	31st	53·9	26th
	Gaya	372	29·547	+·007	29·881	29·639	7th	29·402	21st	75·1	60·9	92·6	0	66·6	+0·8	79·6	+0·4	26·0	99·3	31st	59·9	27th
	Naya Dumka	489	29·417	+·002	29·865	29·516	7th	29·282	21st	76·2	62·8	94·2	+3·0	65·2	+0·3	79·7	+1·7	29·0	99·5	31st	59·2	13th & 27th.
	V.—United Provinces of Agra and Oudh.																					
5	Gorakhpur	257	29·632	+·001	29·855	29·724	4th	29·502	21st	68·9	59·0	88·6	−0·4	61·2	−0·8	75·4	−0·6	28·4	96·3	10th	55·1	26th
	Benares	267	29·654	+·010	29·881	29·737	26th	29·514	21st	73·5	62·1	91·5	−0·6	62·1	+0·7	76·8	+0·1	29·4	99·0	31st	53·0	26th
	Allahabad	309	29·628	+·020	29·890	29·723	26th	29·481	21st	71·8	59·6	92·2	−0·2	62·6	+0·6	77·4	+0·3	29·6	100·3	31st	52·6	25th
	Cawnpore	416	29·516	+·028	29·901	29·601	17th	29·357	21st	69·6	59·4	90·2	+0·5	63·3	+2·3	76·7	+1·4	26·9	99·4	31st	49·7	25th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 23 days.
† „ „ 27 „

B—*continued.*

stations in India, etc., in March, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st March 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															III.—Bengal—*concld.*
21	0	1	4	4	0	1	0	0	S 66° E	S 76° E	1·5	2·3	−0·8	23	−38	82	+ 3	·626	+ ·025	5·5	+0·7	2	− 1·6	0·82	2·24	− 1·42	0·82	3·68	− 2.86	0·62	Mymensingh.
20	0	0	9	0	1	1	0	0	S 78° E	S 53° E	1·2	2·6	- 1·4	27	+ 3	81	+ 8	·615	+ ·071	3·5	+1·6	1	− 1·2	0·23	1·31	− 1·08	0·27	2·62	− 2·35	0·16	Bogra.
1	1	8	10	1	4	2	3	1	N 84° E	S 14° W	2·8	3·6	−0·8	37	+34	69	+ 2	·525	+ ·052	1·1	−1·1	0	− 1·6	0·02	0·83	− 0·81	0·10	1·85	− 1·75	0·02	Dinajpur.
31	0	0	0	0	0	0	0	0	Calm	N 75° E	1·5			(*a*)		79	+ 3	·520	+ ·015	0·4	−1·4	0	− 2·4	0	1·51	− 1·51	0·02	2·69	− 2·67	0	Jalpaiguri.
2	5	1	0	0	8	11	3	1	S 49° W	S 49° W	8·6	6·2	+2·4	46	+ 7	80	− 3	·798	− 0·6	3·6	−0·3	0	− 2·0	0·09	1·47	− 1·38	0·39	3·20	− 2·81	0·04	Saugor Island.
16	1	1	2	1	6	1	0	3	S 14° E		3·4			13		58	− 9	·547	− ·044	2·3	+0·4	1	− 1·6	0·35	1·43	− 1·08	0·37	3·48	− 3·11	0·33	Midnapore.
2	1	0	0	0	8	15	1	4	S 44° W	S 42° W	4·2	3·6	+0·6	69	+22	82	+ 2	·717	+ ·017	2·1	−0·8	2	− 0·2	0·82	1·39	− 0·57	0·82	3·12	− 2·30	0·53	Calcutta.
2	1	0	0	2	1	2	0	0	S	S 32° W	1·0	2·1	−1·1	9	−20	81	+ 1	·668	0	3·4	−0·1	5	+ 2·0	3·47	2·05	+ 1·42	3·49	4·07	− 0·58	1·72	Jessore.
16	2	0	0	0	4	5	2	2	S 59° W	S 58° W	1·5	2·3	−0·8	27	−10	70	+ 3	·597	+ ·040	2·2	−0·8	4	+ 1·7	2·20	1·55	+ 0·65	2·23	3·36	− 1·13	0·76	Burdwan.
12	1	0	0	2	10	5	1	0	S 13° W	S 42° W	2·3	2·4	−0·1	46	+ 3	59*	−11	·516*	− ·039	1·1	−1·6	1	− 0·8	0·16	1·07	− 0·91	0·16	2·51	−2·35	0·16	Berhampore.
																															IV.—Bihar and Orissa.
4	5	1	0	0	5	1	1	5	S 75° W	S 61° W	3·7	4·2	−0·5	37	+ 1	74	− 3	·665	− ·021	3·5	+1·6	2	− 1·4	1·31	2 05	− 0·74	1·38	4·31	− 2·93	0·88	Balasore.
2	1	0	0	0	8	10	5	5	S 56° W		9·4			59	+ 5					4·2	0	2	+ 0·5	2·39	1·09	+ 1·30	2·46	3·24	− 0·78	1·39	Hukitala (False Point).
15	0	0	0	0	2	10	4	0	S 51° W	S 50° W	2·5	2·4	+0·1	46	+17	83	+ 5	·740	+ ·022	4·2	+1·2	2	+ 0·5	0·99	1·10	− 0·11	0·99	2·34	− 1·35	0·72	Cuttack.
1	5	1	0	0	3	7	1	1	S 50° W		12·3			55		82	− 2	·793	− ·042	3·2	+0·5	0	− 1·1	0·07	0·54	− 0·47	0·15	1·89	− 1·74	0·07	Puri.
8	2	3	1	1	0	1	4	11	N 39° W		4·2			45		61	− 6	·551	− ·015	3·1	+0·1	2	− 1·0	0·85	1·04	− 0·19	1·11	3·36	− 2·25	0·60	Angul.
0	9	7	4	1	0	2	2	6	N 7° E	N 46° E	2·7	2·3	+0·4	53	+ 7	52	− 3	·466	− ·019	1·2	−0·7	0	− 2·0	0·07	0·90	− 0·83	0·34	2·29	− 1·95	0·04	Sambalpur.
22	0	1	0	0	1	4	0	0	S 19° W	S 69° W	1·9†	1·2	+0·7	20	−31	53	−10	·428	− ·039	1·9	+0·1	0	− 2·0	0	1·03	− 1·03	0·09	3·52	− 3·43	0	Chaibasa.
4	2	0	0	0	1	2	9	13	N 66° W	N 86° W	4·5	4·7	−0·2	69	+26	38	− 7	·310	− ·029	1·2	−0·6	2	− 0·7	0·53	1·34	− 0·81	0·92	3·96	− 3·04	0·30	Ranchi.
10	2	0	0	0	0	4	6	9	N 66° W		2·4			55		54	− 1	·461	+ ·024	1·9	+0·2	2	0	0·81	1·17	− 0·36	0·04	3·30	− 2·66	0·55	Purulia.
25	0	0	2	3	0	1	0	0	S 45° E		2·8			13		68	+10	·423	+ ·025	0·7	−0·8	1	− 0·5	0·31	0·69	− 0·38	0·44	2·95	− 2 51	0·19	Daltonganj.
2	3	7	8	1	1	5	3	1	N 62° E	N 45° E	3·2	2·9	+0·3	23	+19	62	− 2	·475	− ·007	3·2	+1·9	0	− 1·1	0·08	0·58	− 0·50	0·14	1·76	− 1·62	0·06	Purnea.
1	0	0	5	5	0	9	10	1	S 45 W		4·9‡			42		49		·392		0·9		0		0·11	0·50	− 0·39	0·17	2·30	− 2·13	0·04	Monghyr.
17	0	1	8	0	0	3	2	0	S 73° E	S 82° W	2·6	3·3	−0·7	17	− 7	60	− 3	·449	+ ·001	2·7	+1·5	1	− 0·2	0·13	0·53	− 0·40	0·13	1·66	− 1·53	0·11	Darbhanga.
4	0	3	7	4	2	7	4	0	S 21° E		3·4			26		59		·433		1·6		0		0·09	0·58	− 0·49	0·10	1·72	− 1·62	0·06	Pusa.
8	1	0	6	1	2	4	9	0	S 48° W	S 63° E	2·8	2·8	0	27	− 2	47	− 5	·286	− ·027	1·5	−0·2	1	− 0·1	0·33	0·50	− 0·17	0·46	1·88	− 1·42	0·24	Patna.
1	0	0	3	1	2	13	10	1	S 56° W		5·3			61		51	+ 2	·361	− ·014	2·0	+0·1	0	− 0·9	0·01	0·39	− 0·35	0·20	2·00	− 1·80	0·01	Buxar.
17	0	1	0	0	3	7	1	2	S 48° W	S 37° W	2·1	3·1	−1·0	30	−10	40	−15	·358	− ·088?	0·5	−1·6	0	− 1·2	0·07	0·47	− 0·40	0·07	2·15	− 2·08	0·07	Gaya.
29	0	0	2	0	0	0	0	0	E		1·3			6		44	− 6	·397	− ·016	0·3	−1·1	0	− 1·8	0	1·06	− 1·06	0·12	2·39	− 2·27	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
6	3	0	8	0	1	0	13	0	N 68° W	N 72° W	3·2	3·3	+0·9	17	−19	53	− 4	·372	− ·041	0·9	−0·8	1	+ 0·3	0·13	0·44	− 0·31	0·13	1·88	− 1·75	0·13	Gorakhpur.
3	0	0	2	2	1	13	7	3	S 57° W	S 54° W	3·2	3·4	−0·2	58	+ 9	49	− 7	·408	− ·011	1·0	−0·9	0	− 0·7	0·05	0·36	− 0·31	0·15	1·95	− 1·80	0·03	Benares.
4	0	1	3	0	1	1	16	5	N 81° W	S 85° W	3·9	3·7	+0·2	56	+17	45	− 2	·356	− ·008	1·8	−0·3	0	− 0·6	0	0·32	− 0·32	0·39	1·88	− 1·49	0	Allahabad.
3	5	2	0	1	3	2	8	7	N 63° W	S 89° W	2·7	3·1	−0·4	43	+ 7	52	− 2	·372	+ ·021	0·7	−0·5	1	+ 0·4	0·23	0·33	− 0·10	0·64	1·76	− 1 12	0·15	Cawnpore.

* Mean of 23 days. † ,, 27 ,, ‡ ,, 29 ,,

(*a*) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·554	+·018	29·889	29·658	17th	29·433	23rd	72·6	60·8	90·6	−0·4	62·7	+2·5	76·7	+1·1	27·9	99·9	31st	53·5	25th
	Bahraich	407	29·490	+·009	29·870	29·607	16th	29·353	23rd	68·8	59·4	88·7	+0·3	59·7	+0·8	74·2	+0·5	29·0	97·0	31st	50·5	26th
10	Jhansi	824	29·121	+·006	29·919	29·223	26th	28·924	22nd	72·6	60·1	91·6	−1·2	62·2	−4·1?	76·9	−2·7?	29·4	99·9	31st	52·1	26th
	Agra	556	29·378	+·013	29·908	29·481	8th	29·176	22nd	71·1	61·0	87·3	−2·3	62·0	−0·6	74·9	−1·5	25·8	96·4	9th & 31st	50·6	25th
	Mainpuri	516	29·407	+·015	29·899	29·490	17th	29·244	21st	68·6	58·3	90·1	+0·7	59·6	+1·2	74·8	+0·9	30·5	99·5	31st	50·6	24th
	Bareilly	568	29·325	+·009	29·874	29·415	8th	29·192	22nd	66·6	60·2	87·1	−0·4	59·3	+0·8	73·2	+0·2	27·8	97·3	31st	50·0	25th
	Roorkee	899	28·994	+·011	29·895	29·101	3th	28·839	23rd	63·1	56·8	83·4	−1·3	54·7	−0·9	69·1	−1·1	28·7	93·5	31st	46·4	25th
	VI.—Punjab.																					
11	Delhi	718	29·205	+·018	29·915	29·305	5th	29·013	22nd	65·9	57·6	84·6	−1·8	61·3	−0·6	72·9	−1·2	23·3	93·5	31st	52·5	25th
	Hissar	725	29·200	+·017	29·920	29·317	9th	28·938	22nd	64·0	57·6	85·4	−1·9	55·5	−1·4	70·5	−1·7	29·9	95·4	31st	42·4	24th
	Patiala	*818*	29·073	−·006	29·890	29·281	8th	28·849	22nd	66·4	57·8	81·5	−1·2	57·7	+1·0	69·6	−0·1	23·8	90·4	31st	45·0	24th
	Ambala	892	29·001	+·007	29·897	29·118	8th	28·782	22nd	65·5	57·0	83·8	+0·7	57·2	+1·2	70·5	+0·9	26·6	93·7	31st	47·3	24th
	Ludhiana	812	29·094	+·013	29·912	29·205	8th	28·840	22nd	61·7	56·1	80·4	−2·8	57·2	+0·2	68·8	−1·3	23·2	88·7	9th	47·6	24th
	Lahore	702	29·235	+·003	29·912	29·337	9th	28·912	22nd	60·3	56·9	78·3	−5·6	56·0	+1·5	67·2	−2·1	22·3	88·3	15th	46·3	24th
	Sialkot	830	29·084	+·014	29·928	29·229	8th	28·795	22nd	59·5	56·5	74·7	−6·3	53·2	−2·0	64·0	−4·1	21·5	84·7	15th	43·5	24th
	Rawalpindi	1,674	28·254	+·014	29·972	28·418	8th	27·960	22nd	56·8	52·7	70·5	−4·8	48·3	−2·2	59·4	−3·5	22·2	84·1	15th	37·1	24th
12	Khushab	612	29·324	+·014	29·939	29·485	8th	29·046	22nd	61·1	56·3	76·8	−3·7	54·9	−1·6	65·9	−2·7	21·9	88·2	14th	42·8	24th
	Lyallpur	605	29·317		29·922	29·485	8th	29·021	22nd	60·5	56·6	77·4		53·7		65·6		23·7	87·6	16th	41·8	24th
	Montgomery	558	29·371	+·016	29·924	29·537	9th	29·100	22nd	63·0	57·1	79·7	−4·7	55·9	+0·2	67·7	−2·3	25·8	90·7	15th	40·4	23rd
	Multan	426	29·504	0	29·922	29·673	9th	29·243	22nd	62·7	57·3	80·3	−5·5	58·1	+0·2	69·4	−2·7	21·9	92·6	15th	47·9	23rd
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·835	−·008	29·987	28·976	17th	28·522	22nd	55·6	52·9	71·3	−3·7	51·5	−0·2	61·4	−1·9	19·8	89·2	14th	41·1	26th
	D. I. Khan	590	29·367	+·007	29·963	29·539	9th	29·072	22nd	60·0	55·7	76·5	−5·7	55·1	0	66·8	−2·9	21·4	86·0	15th	44·9	24th
	VIII.—Sind.																					
16	Jacobabad	186	29·756	+·013	29·909	29·926	8th	29·504	21st	67·6	58·6	86·8	−3·9	60·5	+0·8	73·7	−1·5	26·3	96·9	3rd	43·8	24th
	Hyderabad	96	29·865	+·017	29·914	29·998	9th	29·621	21st	69·5	63·1	90·0	−2·6	63·7	−0·3	76·9	−1·5	26·3	102·0	3rd	50·3	24th
	Karachi	13	29·972	+·018	29·936	30·078	9th	29·743	21st	71·3	65·3	80·6	−1·2	67·2	+0·9	73·9	−0·1	15·4	88·0	10th	58·2	23rd
	IX.—Rajputana.																					
17	Bikaner	771	29·161	+·026?	29·926	29·307	26th	28·841	22nd	65·9	56·4	87·9	−0·8	59·2	−4·6?	73·5	−2·7?	28·7	97·4	3rd	45·9	24th
	Jodhpur	780	29·163	+·012	29·925	29·291	26th	28·908	22nd	69·2	55·4	90·6	−0·5	61·6	−1·3	76·1	−0·9	29·0	97·5	3rd, 30th & 31st.	43·2	24th
18	Jaipur	1,431	28·507	−·007	29·924	28·616	26th	28·290	22nd	70·4	57·1	89·2	−0·2	61·1	+0·4	75·2	+0·1	28·1	97·5	31st	43·4	24th
	Ajmer	1,611	28·332	+·065	29·929	28·443	26th	28·105	22nd	68·1	56·6	86·5	−2·1?	59·3	−1·0	72·9	−1·5?	27·2	96·0	31st	44·9	24th
	Kotan	832	29·106	+·002	29·907	29·224	26th	28·900	22nd	75·8	60·8	91·9	−1·1	65·7	−0·3	78·8	−0·7	26·2	101·6	31st	52·6	24th

N. B.— Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in March, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st March 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
20	2	0	1	1	1	0	6	0	N 86° W	N 80° W	1·8	2·8	−1·0	14	−29	48	− 3	·384	+·017	1·9	−0·1	3	+2·2	0·65	0·36	+0·29	0·92	2·13	−1·21	0·30	Lucknow.
8	2	0	2	2	1	6	4	6	S 87° W	N 51° W	2·6	2·6	0	29	+ 1	54	− 8	·382	−·052	0·7	−0·8	0	−0·6	0	0·58	−0·58	0	2·89	−2·89	0	Bahraich.
4	2	1	1	1	0	13	4	5	S 76° W	S 84° W	3·3	2·2	+1·1	49	+17	44	+ 1	·356	+·007	1·1	0	0	−0·8	0	0·32	−0·32	0·27	1·66	−1·39	0	Jhansi.
1	1	0	1	3	3	8	10	4	S 66° W	N 66° W	3·5	3·5	0	53	+10	53	+ 5	·405	+·069	2·2	0	1	+0·1	0·22	0·35	−0·13	1·32	1·78	−0·46	0·16	Agra.
6	3	1	1	0	2	3	7	8	N 68° W	N 63° W	1·9	1·8	+0·1	46	+14	51	− 1	·355	+·009	1·8	−0·5	1	+0·6	0·19	0·34	−0·15	0·71	2·10	−1·39	0·14	Mainpuri.
9	1	1	1	1	0	3	13	5	N 83° W	N 43° W	2·1	2·7	−0·6	43	+ 7	67	+ 7	·410	+·061	3·2	+0·9	1	−0·2	0·18	0·74	−0·56	0·57	3·06	−2·49	0·18	Bareilly.
18	0	1	2	0	0	1	0	9	N 35° W	N 41° W	2·1	2·2	−0·1	23	+ 8	67	+ 5	·382	+·031	1·3	−1·0	3	+1·6	0·98	0·89	+0·09	1·78	4·69	−2·91	0·39	Roorkee.
																															VI.—Punjab.
2	2	5	1	3	1	0	11	6	N 52° W	N 87° W	3·9	2·8	+1·1	37	−13	58	+ 7	·370	+·042	1·6	−1·1	2	+0·7	0·45	0·53	−0·08	0·98	2·84	−1·86	0·26	Delhi.
1	3	4	3	3	3	5	1	5	N 8° W	N 24° W	4·5	3·4	+1·1	2	− 2	65	+ 7	·391	+·031	3·0	+0·3	1	+0·3	0·46	0·41	+0·02	0·99	1·85	−0·86	0·33	Hissar.
3	4	6	3	3	0	0	7	5	N 6° W		5·3			32		70	+ 7	·409	+·022	3·5	+0·4	4	+2·2	1·53	1·12	+0·31	2·32	4·41	−2·09	0·75	Patiala.
1	15	3	5	0	0	2	2	3	N 5° E	N 37° W	4·9	2·3	+2·6	59	+35	85	0	·382	+·008	3·7	+0·9	5	+0·4	1·10	0·94	+0·16	2·24	5·06	−2·82	0·32	Ambala.
18	1	8	2	0	1	0	1	5	N 4° W	N 31° W	1·7	1·6	+0·1	18	− 4	68	+ 6	·378	+·019	2·5	−0·8	5	+3·0	2·77	1·07	+1·70	3·16	4·97	−1·81	1·14	Ludhiana.
8	2	5	2	5	0	0	5	4	N 14° E	N 10° W	2·0	2·1	−0·1	17	− 1	77	+11	·416	+·043	4·5	+0·9	6	+4·2	2·36	0·86	+1·50	2·64	3·33	−0·69	0·92	Lahore.
15	3	3	5	1	1	0	1	2	N 48° E	N 7° E	2·2	1·5	+0·7	27	− 2	82	+14	·418	+·042	4·2	+1·4	8	+5·0	5·67	1·54	+4·13	6·76	6·09	+0·67	1·55	Sialkot.
6	2	5	2	1	2	4	7	2	N 75° W	N 39° W	3·1	2·1	+1·0	17	− 9	76	+ 6	·352	+·030	6·4	+2·1	10	+5·5	9·06	2·27	+6·79	13·91	8·27	+5·64	2·58	Rawalpindi.
15	4	7	5	0	0	0	0	0	N 48° E	N 22° E	3·7	3·7	0	46	+24	72	+15	·391	+·060	5·6	+2·4	7	+4·5	2·44	1·19	+1·25	3·12	3·40	−0·28	0·74	Khushab.
7	0	5	1	3	1	1	2	11	N 28° W		2·5			30		77		·407		5·3		4	+1·9	0·80	0·81	−0·01	0·92	2·19	−1·27	0·19	Lyallpur.
3	5	3	3	2	4	1	2	8	N 16° W	N 53° E	4·1	3·9	+0·2	23	+ 1	68	+17	·391	+·077	4·0	+0·9	4	+2·5	1·02	0·52	+0·50	1·28	1·96	−0·68	0·33	Montgomery.
13	12	2	0	2	0	1	0	1	N 7° E	N 50° E	6·2	1·4	−0·5	40	+15	71	+13	·461	+·045	4·5	+1·8	4	+3·0	1·58	0·43	+1·15	1·72	1·47	+0·25	0·52	Multan.
																															VII.—North-West Frontier Province.
29	0	0	0	0	0	2	0	0	0	S	S 27° W	0·7	2·6	−1·9	6	−19	78	+ 7	·356	+·095	6·7	+2·2	7	+2·7	4·43	2·20	+2·23	5·87	5·72	+0·15	1·29	Peshawar.
20	2	2	1	0	0	0	1	5	N 17° W	N 13° W	1·3	1·5	−0·2	23	− 9	75	+10	·388	+·022	5·4	+1·9	5	+2·8	1·49	1·08	+0·41	2·11	2·51	−0·40	0·60	D. I. Khan.
																															VIII.—Sind.
14	0	2	1	7	1	0	0	6	S 84° E	N 83° E	1·6	2·8	−1·2	10	− 5	56	+11	·388	+·072	2·8	+0·1	2	+1·3	0·69	0·24	+0·36	0·62	1·01	−0·39	0·26	Jacobabad.
2	11	4	1	0	3	7	5	2	N 66° W	S 83° W	4·2	6·1	−1·9	37	+ 9	69	+19	·488	+·103	1·5	−0·6	1	+0·5	0·13	0·27	−0·14	0·28	0·85	−0·57	0·11	Hyderabad.
2	4	8	3	1	0	3	6	4	N 10° W	N 32° W	8·0	8·3	−0·3	33	− 3	70	+ 3	·553	+·037	3·1	+0·8	4	+3·5	1·54	0·31	+1·23	1·54	1·44	+0·10	0·55	Karachi.
																															IX.—Rajputana.
6	3	3	7	3	5	4	0	6	S 60° E	S 46° W	4·4	3·9	+0·5	30	+19	52	+ 9	·335	+·032	2·3	−0·5	1	+0·4	0·21	0·29	−0·08	0·30	1·15	−0·85	0·15	Bikaner.
7	3	16	1	0	0	2	2	0	N 35° E		3·1			5		35	+ 2	·264	+·019	3·3	+0·7	0	−0·2	0	0·10	−0·10	0·10	0·58	−0·48	0	Jodhpur.
9	4	7	2	0	0	2	4	3	N 3° W	N 29° W	3·4	3·3	+0·1	33	− 7	41	− 1	·306	−·003	2·9	+0·2	0	−0·7	0·08	0·39	−0·31	0·31	1·39	−1·08	0·06	Jaipur.
19	1	5	0	0	0	2	3	1	N 24° W	S 65° W	2·5	3·0	−0·5	17	+ 6	46	− 3	·322	−·013	1·9	−0·5	0	−0·7	0	0·21	−0·21	0·25	1·17	−0·92	0	Ajmer.
15	2	4	2	2	0	2	1	3	N 23° E		2·1			17		37	+ 3	·336	+·052	3·6	+2·4?	0	−0·2	0·10	0·14	−0·04	0·10	1·05	−0·95	0·08	Mount Abu.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between and maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·497	+·017	29·927	29·570	26th	29·332	21st	73·3	60·2	95·8	−0·1	62·4	−1·0	79·1	−0·5	33·4	102·2	2nd	44·3	24th
	Bhuj	334	29·630	+·005	29·922	29·693	8th	29·448	21st	74·1	62·9	92·1	−1·0	62·7	−2·5P	77·4	−1·7P	29·4	101·1	2nd	48·9	25th
	Jamnagar	61	29·913	−·008	29·921	29·980	1st	29·739	21st	73·8	65·6	90·7	+0·8	61·2	+0·5	77·4	+0·7	26·5	97·5	6th	51·9	25th
	Dwarka	37	29·946	−·009	29·929	30·006	1st	29·796	21st	74·6	68·5	84·0	+2·5	70·2	+0·3	77·1	+1·4	13·8	94·1	12th	60·9	25th
	Rajkot	429	29·525	−·011	29·911	29·581	1st	29·375	21st	73·7	61·6	94·5	−0·7	61·6	−0·4	78·0	−0·5	32·9	99·3	8th	47·0	24th
	Veraval	*18*	29·941	−·005	29·905	29·990	16th	29·838	21st	74·1	64·6	86·1	+0·5	68·0	+2·9	77·1	+1·7	18·1	98·4	9th	58·3	24th
	Bhavnagar Para	55	29·905	−·009	29·906	29·960	17th	29·794	22nd	75·0	67·3	95·6	+0·6	66·0*	0	80·5*	+0·3	29·6	103·6	3rd	48·6	24th & 25th.
	Surat	39	29·925	−·003	29·909	29·977	4th	29·823	21st	76·0	66·2	96·6	+0·3	68·1	+1·9	82·4	+1·1	28·5	103·3	8th	55·3	25th
	Ahmadabad	163	29·810	+·012	29·924	29·874	26th	29·665	21st	76·5	62·1	97·5	+0·6	67·5	0	82·5	+0·3	30·0	104·8	9th	54·3	24th
25	Bombay	37	29·919	−·010	29·896	29·970	7th	29·846	21st	74·4	71·5	87·7	+2·0	73·3	+1·1	81·0	+1·5	13·4	90·6	27th	65·7	25th
	Ratnagiri	207	29·735	−·008	29·893	29·802	4th & 9th.	29·664	21st	80·2	71·1	87·9	+0·5	73·6	+1·5	80·7	+1·0	14·3	92·1	14th	65·1	25th
	Marmagao	*60*	29·890	−·006	29·884	29·960	7th	29·805	21st	79·4	75·2	88·3	+1·5	73·5	+0·6	81·9	+1·1	12·8	91·0	16th	70·9	25th & 26th.
	Karwar	44	29·926	+·012	29·904P	29·983	9th	29·850	21st	75·7	72·7	89·3	+1·8	72·8	+0·4	81·1	+1·1	16·5	91·2	12th	66·6	25th
26	Malegaon	1,430	28·532	+·017	29·922	28·591	8th	28·421	21st	74·2	53·0	97·0	−0·5	62·9	−0·4	80·0	−0·5	34·1	102·9	31st	47·3	24th
	Ahmadnagar	2,154	29·817	+·010	29·889	27·889	8th	27·710	21st	76·0	60·1	94·1	−0·5	62·2	−0·5	78·1	−0·5	31·9	99·0	31st	52·5	24th
	Poona	1,846	28·107	−·004	29·903	28·168	5th	28·016	21st	72·4	60·5	95·2	−2·3	60·5	−2·7P	77·8	−2·5P	34·7	101·0	31st	51·5	24th & 25th.
	Sholapur	1,590	28·254	+·006	29·883	28·438	7th	28·258	21st	73·6	60·4	97·0	−3·0	63·6	−0·6	82·9	−1·8	28·4	101·8	31st	65·0	2nd
	Bijapur	*1,948*	28·009	+·012	29·875	28·081	5th	27·922	21st	73·0	62·5	95·2	−1·9	63·0	−1·2	82·1	−1·5	25·2	98·7	31st	65·5	7th
	Belgaum	2,562	27·426	+·012	29·899	27·495	8th	27·358	21st	72·4	61·2	91·5	−2·2	62·5	−1·4	77·0	−1·8	29·0	95·6	20th	58·5	25th
	XI.—Central India.																					
20	Neemuch	1,626	28·332	+·012	29·925	28·425	26th	28·151	22nd	72·0	57·5	90·2	−0·8	60·1	−0·8	75·3	−0·8	29·8	99·1	31st	45·6	24th
	Indore	1,823	28·133	+·010	29·912	28·217	7th	27·939	21st	73·7	62·9	91·6	−0·7	60·7	+0·3	76·2	−0·2	30·9	99·3	31st	45·1	25th
21	Nowgong	754	29·179	+·009	29·913	29·275	26th	28·997	22nd	68·1	57·5	91·3	−0·4	59·4	−1·1	75·4	−0·7	31·9	99·5	31st	48·2	25th
	Sutna	1,041	28·892	+·019	29·909	28·992	8th	28·714	21st	71·3	58·7	90·1	−0·7	62·4	+1·0	76·3	+0·1	27·7	97·0	4th	52·8	27th
	XII.—Central Provinces.																					
22	Buldana	2,134								75·1	62·0	92·7	−0·8	69·1	−0·7	80·9	−0·7	23·6	99·9	31st	58·4	24th
	Akola	925	29·023	+·017	29·902	29·102	8th	28·893	21st	78·5	60·6	98·5	−0·5	65·9	0	82·2	−0·3	32·6	105·5	31st	55·5	27th
	Amraoti	1,215	28·721	+·007	29·884	28·817	7th	28·587	21st	79·9	59·4	97·2	−0·7	70·3	+1·2	83·8	+0·3	26·9	103·4	31st	63·1	14th
23	Khandwa	1,044	28·997	+·015	29·917	28·977	8th	28·764	22nd	74·1	59·9	96·9	−0·5	65·6	+0·7	81·3	+0·1	31·3	105·5	31st	52·0	25th
	Hoshangabad	1,006	28·945	+·013	29·923	29·045	8th	28·789	21st	71·7	60·4	93·8	−1·4	63·4	−0·6	78·6	−1·1	30·4	101·5	31st	50·8	27th
	Saugor	1,867	28·135	+·004	29·897	28·244	8th	27·973	22nd	73·6	56·7	90·9	−0·4	66·0	+1·3	78·4	+0·5	24·9	99·2	31st	52·8	25th
	Jubbulpore	1,327	28·603	+·011	29·906	28·700	8th	28·440	21st	69·4	56·8	90·7	−1·7	60·1	−0·4	75·4	−1·1	30·6	98·3	31st	49·9	27th
	Seoni	2,033	27·927	+·023	29·904	28·021	8th	27·782	21st	71·3	57·6	91·4	−1·4	63·1	+0·3	77·2	−0·5	28·3	97·0	31st	57·1	25th
	Nagpur	1,017	28·526	+·013	29·901	28·017	7th	28·772	21st	70·7	60·6	96·8	−1·1	66·3	−1·2	81·6	−1·1	30·5	101·7	31st	7·1	27th
24	Pendra	2,940	27·907	+·010	29·895	28·009	8th	27·748	21st	72·9	57·9	89·5	+2·0	62·6	+1·5	76·6	+1·7	25·9	95·0	31st	55·0	27th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

stations in India, etc., in March, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 9 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 31st Mar. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay.
4	2	11	5	1	1	1	3	3	N 39° E	N 7° W	6·2	6·3	−0·1	40	+ 8	43	+ 5	·358	+·041	1·7	−0·1	0	−0·1	0	0·09	− 0·09	0	0·11	−0·11	0	Deesa.
12	6	0	0	0	0	0	13	0	N 65° W	N 60° W	4·4	6·4	−2·0	46	−19	51	− 9	·432	−·067	2·0	+1·0	1	+0·8	0·15	0·13	+ 0·02	0·15	0·39	−0·24	0·15	Bhuj.
8	1	7	2	1	0	8	3	6	N 53° W		6·6			21		63	− 6	·528	−·032	1·5	+0·2	0	−0·2	0	0·19	− 0·19	0	0·30	−0·30	0	Jamnagar.
2	16	5	1	0	1	1	4	7	N 17° W		8·9			59		71	− 4	·619	−·042	2·3	+0·1	0	−0·3	0·01	0·27	− 0·26	0·01	0·75	−0·74	0·01	Dwarka.
2	11	5	0	0	0	2	5	6	N 22° W	N 25° W	5·8	5·6	+0·2	62	+ 8	47	−15?	·398	−·101?	2·4	+1·0	0	−0·1	0	0·08	− 0·08	0·01	0·27	−0·26	0	Rajkot.
4	13	3	1	0	0	0	1	9	N 11° W	N 13° W	6·1	5·6	+0·5	72	+ 7	59	− 5	·495	−·025	1·8	+0·3	0	−0·1	0	0·08	− 0·08	0	0·21	−0·21	0	Veraval.
1	2	2	0	1	0	3	4	18	N 54° W	N 85° W	5·1	6·3	−1·2	69	+ 4	65	+13?	·559	+·133?	1·8	+0·4	0	−0·2	0	0·13	− 0·13	0	0·34	−0·34	0	Bhavnagar Para.
10	7	5	1	2	1	1	0	4	N 13° E	N 45° W	2·6	4·5	−1·9	33	− 3	57	− 4	·520	−·021	2·3	+1·2	0	−0·1	0	0·02	− 0·02	0	0·19	−0·19	0	Surat.
6	11	11	1	1	0	0	2	9	N 4° E	N 1° E	3·6	3·4	+0·2	16	+12	41	− 2	·377	+·003	1·1	−0·7	0	−0·2	0	0·09	− 0·09	0	0·24	−0·24	0	Ahmadabad.
1	4	7	7	7	1	0	1	3	N 69° E	N 40° E	6·3	8·0	−1·7	49	− 5	74	0	·710	+·018	1·8	0	2	+1·9	1·46	0·04	+ 1·42	1·46	0·22	+1·24	1·35	Bombay.
1	7	3	5	9	4	1	0	1	S 84° E	N 22° E	6·7	6·1	+0·6	40	+18	63	− 6	·642	−·024	1·9	+0·7	0	−0·1	0	0·01	− 0·01	0·01	0·25	−0·24	0	Ratnagiri.
3	0	8	3	0	2	0	6	9	N 48° E	N 72° E	2·5	6·6	−4·1	30	+ 5	82	+ 3	·819	+ ·031	3·0	+0·8	0	0	0	0·01	− 0·01	0	0·25	−0·25	0	Marmagao.
15	15	0	0	0	0	0	0	1	N 3° W	N 13° E	2·4	3·4	−1·0	53	− 8	86	+ 4	·770	+·049	1·7	+0·3	0	0	0	0	0	0	0·31	−0·31	0	Karwar
8	3	0	1	0	4	9	5	1	S 59° W	N 66° W	4·5	5·6	−1·1	43	−22	33	− 9	·282	− ·091	2·0	+0·6	1	+0·8	0·16	0·07	+ 0·09	0·21	0·49	−0·28	0·13	Malegaon.
12	4	1	1	1	3	1	1	7	N 39° W	N 1° W	4·2	6·6	−2·3	23	−27	37	− 9	·329	−·087	1·0	+0·2	1	+0·7	0·10	0·18	− 0·08	1·99	0·93	+1·06	0·10	Ahmadnagar.
20	0	1	0	0	0	1	5	4	N 70° W	S 87° W	5·2	6·2	−1·0	27	− 6	48	+ 7	·383	+·056	1·3	+0·2	0	−0·2	0·04	0·04	0	0·26	0·31	−0·05	0·04	Poona.
14	4	9	3	8	1	0	0	2	N 73° E	N 14° E	6·5	5·8	+0·7	49	+27	31	− 2	3·01	−·025	1·5	+0·2	0	−0·4	0·02	0·21	− 0·19	0·13	0·91	−0·78	0·02	Sholapur.
2	7	0	1	4	8	3	4	2	S 40° W	N 84° W	4·1	3·6	+0·5	23	−17	39	−11	·371	−·119	1·4	+0·3	0	−0·9	0·05	0·29	− 0·24	0·09	0·70	−0·61	0·05	Bijapur.
21	2	0	4	2	0	0	2	0	N 80° E	N 8° E	8·1	8·2	−0·1	10	− 1	52	+ 6	·402	+·014	2·1	+1·0	0	−0·6	0·01	0·30	− 0·29	1·09	0·86	+0·23	0·01	Belgaum.
																															XI.—Central India.
15	2	0	7	1	0	3	3	0	S 72° E	S 34° E	5·3	5·7	−0·4	10	−15	37	− 1	·300	−·001	2·0	+0·3	0	−0·2	0·06	0·08	− 0·02	0·06	0·68	−0·62	0·05	Neemuch
16	0	5	4	1	1	0	3	1	N 60° E	N 7° W	2·3	2·5	−0·2	20	− 9	51	+14?	·448	+·122?	1·5	−0·1	1	+0·9	0·21	0·06	+ 0·15	0·21	0·59	−0·38	0·21	Indore.
6	4	2	1	2	2	4	5	6	N 73° W	S 80° W	2·2	1·8	+0·4	27	−16	47	− 2	·325	−·026	2·5	+0·1	0	−0·7	0·02	0·32	− 0·30	0·27	1·92	−1·65	0·02	Nowgong.
5	2	0	3	2	6	4	8	1	S 43° W	N 54° W	2·9	3·9	−1·0	33	−24	43	+ 2	335	+·025	0·4	−1·8	0	−1·0	0	0·52	− 0·52	0·68	2·53	−1·85	0	Sutna.
																															XII.—Central Provinces.
2	1	2	5	2	1	3	7	8	N 67° W		4·9	5·4	−0·5	23		38		·360		2·0		0	−0·5	0·17	0·29	− 0·12	0·29	1·39	−1·10	0·09	Buldana.
6	2	2	4	3	4	4	2	4	S 2° W	N 45° W	3·4	3·5	−0·1	9	− 2	30	− 3	·290	−·008	2·7	+1·2	0	−0·7	0·06	0·40	− 0·34	0·27	1·65	−1·38	0·03	Akola.
6	1	6	7	4	0	2	3	2	N 73° E	N 72° E	4·6	3·5	+1·1	27	+ 5	25	−14	·250	−·116	1·9	+0·5	0	−0·8	0·16	0·34	− 0·18	0·23	1·58	−1·35	0·09	Amraoti.
4	2	6	3	2	0	3	6	5	N 26° W	N 40° W	4·1	3·7	+0·4	23	− 6	39	+ 5	·331	+·046	1·9	+0·7	0	−0·4	0	0·16	− 0·16	0·04	0·39	−0·76	0	Khandwa.
18	0	10	0	2	0	2	1	0	N 55° E	N 63° E	1·2	1·9	−0·7	27	+ 2	49	+ 5	·381	+·027	1·2	−0·3	1	+0·5	0·15	0·28	− 0·13	0·35	1·34	−0·99	0·10	Hoshangabad.
2	2	4	2	5	3	2	6	5	N 81° W	S 69° E	4·3	3·1	+1·2	8	−10	31	− 5	·257	−·032	1·3	−0·1	0	−0·8	0	0·39	− 0·39	0·14	1·84	−1·70	0	Saugor.
5	1	2	5	10	5	2	1	0	S 45° E	S 23° E	1·7	2·0	−0·3	44	+20	42	− 5	·308	−·036	1·0	−0·6	2	+0·9	0·33	0·59	− 0·26	1·29	2·37	−1·08	0·20	Jubbulpore.
18	5	3	3	0	1	1	1	1	N 7° E	N 37° E	1·7	2·3	−0·6	20	− 7	33	−10	·262	−·085	2·0	+0·3	0	−1·8	0·11	0·67	− 0·56	0·63	2·61	−1·98	0·09	Seoni.
3	6	8	6	1	1	1	4	1	N 35° E	N 14° E	3·6	3·6	0	40	+ 8	34	− 5	·316	−·037	1·5	−0·3	0	−1·2	0·06	0·53	− 0·47	0·37	1·98	−1·61	0·04	Nagpur.
6	8	1	0	1	3	2	0	10	N 33° W		4·6			43		37	− 5	·300	−·012	1·4	−0·6	0	−3·3	0·04	1·47	− 1·43	1·92	4·27	−2·35	0·02	Pendra.

Tabl

(2) Abstract of observations taken at 8 hrs. at 21

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces —*concld.*																					
	Raipur	970	28·962	+·007	29·884	29·060	8th	28·801	21st	78·5	61·9	95·5	−0·2	68·1	−0·1	81·8	−0·1	27·4	100·3	31st	60·0	27th
	Chanda	*634*	29·299	−·003	29·885	29·396	8th	29·143	21st	77·3	63·2	98·8	−0·6	66·5	−0·6	82·7	−0·7	32·3	102·5	31st	55·0	28th
	Jagdalpur	1,813	28·136		29·895	28·243	7th	27·939	21st	73·1	64·7	93·5		63·2		78·4		30·3	95·6	31st	53·7	28th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·060	+·005	29·895	28·132	8th	27·951	21st	77·5	59·3	94·5	−1·9	67·1	+1·5	80·8	−0·2	27·4	99·5	31st	59·6	14th
	Nizamabad	1,248	28·701		29·893	28·781	8th	28·568	21st	79·2	62·3	98·7	+0·6	67·6	−0·7	83·2	−0·1	31·1	102·7	21st	60·7	2nd
	Bidar	*2,165*								79·0	67·0	96·3*	+1·2	66·9	−3·8?	81·6*	−1·3?	29·4	100·2	21st	63·4	4th, 5th & 10th.
28	Gulbarga	1,503	28·434	−·001	29·877	28·517	4th	28·327	21st	76·7	62·0	98·5	−0·9	69·0	−1·8	83·6	−1·2	29·5	102·2	21st	63·6	9th
	Raichur	*1,311*	28·643	+·042?	29·891	28·728	5th	28·520	21st	79·9	66·7	97·4	−1·2	72·7	−1·3	85·1	−1·3	24·7	101·1	22nd	67·3	9th
	Hyderabad (Deccan)	1,738	28·241	+·022	29·892	28·325	8th	28·119	21st	76·7	65·6	94·8	−2·3	66·9	−1·1	81·8	−1·7	25·9	98·6	21st & 22nd.	63·9	29th
	Hanamkonda	877	29·078	+·018	29·906	29·159	4th	28·944	21st	77·5	65·5	95·1	−2·4	70·0	−1·9	82·0	−2·1	25·1	100·1	21st	64·2	22nd
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·573	+·012	29·874	27·655	7th	27·481	21st	76·2	63·7	92·6	−2·1	68·0	−2·2	80·3	−2·1	24·6	96·9	21st	62·8	5th
	Hassan	3,149	26·874	+·011	29·897	26·927	7th	26·807	24th	70·0	64·3	89·1	−1·3	61·8	−0·3	75·6	−1·1	27·6	93·8	21st	57·5	9th
	Bangalore	3,021	26·998	+·006	29·892	27·071	4th	26·920	24th	71·5	62·6	89·4	−1·6	62·4	−2·3	75·9	−1·9	27·0	94·4	20th	57·8	10th
	Mysore	2,518	27·479	+·008	29·900	27·552	7th	27·403	24th	72·7	66·4	91·4	−2·3	65·4	−1·9	78·4	−2·1	26·0	95·0	20th	62·2	12th
	XV.—Madras.																					
30	Mangalore	72	29·896	−·001	29·899	29·950	1st	29·823	29th	81·9	75·1	90·7	+1·3	75·9	+1·8	83·3	+1·8	14·8	93·2	30th	73·2	9th
	Calicut	27	29·933	+·003	29·899	30·003	7th	29·849	24th	80·1	75·4	89·2	−0·9	75·8	−0·1	82·5	−0·5	13·4	91·4	5th	72·4	5th
	Cochin	9	29·956	+·008	29·892	30·015	7th	29·885	24th	81·0	74·6	90·4	−1·0	76·2	−1·0	83·3	−1·0	14·2	93·1	20th	71·6	21st
	Trivandrum	198	29·765	+·017	29·895	29·830	1st	29·663	24th	78·0	73·6	87·3	0	74·4	−2·1	80·8	−1·1	12·9	89·6	24th	70·9	2nd
31	Pamban	37	29·928	+·004	29·893	30·000	4th	29·839	22nd	81·6	75·9	85·1	−4·4?	74·8	−1·2	80·0	−2·8?	10·3	86·4	22nd & 26th.	75·0	30th
	Madura	447	29·527	+·010	29·908	29·606	4th	29·425	24th	79·4	72·7	94·0	−2·5	71·8	−1·1	82·9	−1·8	23·2	99·9	23rd	66·8	2nd
	Pudukkottai	318	29·666	+·006	29·918	29·738	4th	29·562	24th	78·0	72·0	94·4	−1·3	71·6	−1·3	83·0	−1·3	22·8	102·9	23rd	67·1	11th & 15th.
	Negapatam	31	29·947	+·015	29·906	30·029	4th	29·850	24th	79·6	74·5	87·8	−1·0	74·9	−1·0	81·4	−1·0	12·9	90·4	23rd	69·7	12th
	Trichinopoly	255	29·732	+·018	29·922	29·821	4th	29·640	21st	79·1	72·3	96·4	−1·3	70·2	−2·5	83·3	−1·9	26·2	101·1	23rd	64·4	15th
	Coimbatore	1,341	28·638	+·019	29·920	28·719	4th	28·554	24th	75·9	68·4	91·6	−1·6	67·5	−2·3	81·0	−1·9	21·1	98·5	21st	61·0	12th
	Salem	913	29·069	+·024	29·926	29·157	4th	28·981	24th	75·6	69·5	95·2	−2·8	68·1	−2·8	82·0	−2·8	27·8	99·9	22nd	63·1	12th
	Cuddalore	37	29·945	+·017	29·912	30·041	4th	29·842	24th	77·2	73·0	87·3	−2·0	70·9	−1·3	79·1	−1·7	16·4	90·4	23rd	65·5	16th
	Vellore	707	29·262	+·002	29·919	29·370	4th	29·150	24th	73·5	63·7	94·0	−0·3	66·7	−3·0	80·4	−1·7	27·3	98·8	23rd	60·0	12th
	Madras	22	29·957	+·011	29·910	30·056	4th	29·846	24th	78·6	75·0	88·1	−1·7	70·8	−1·4	79·4	−1·5	17·3	91·8	22nd	66·6	12th
32	Cuddapah	428	29·519	+·011	29·885	29·631	4th	29·399	21st	81·6	74·7	99·0	−2·9	72·8	−2·0	85·9	−2·5	26·2	103·2	23rd	68·1	9th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 27 days.

B—*continued.*

tations in India, etc., in March, 1918—*continued.*

Wind direction. Number of winds from Calms	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs	Departure from normal.	Mean vapour tension at 8 hrs, in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st March, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	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	54	55
																															XII.—Central Provinces—*concld.*
10	4	3	9	2	1	4	2	1	N 52° E	N 59° W	2·2*	3·6	−1·4	10	− 1	35	− 7	·339	−·030	0·6	−1·3	0	−1·6	0	0·67	−0·67	0·95	1·90	−0·95	0	Raipur.
2	5	8	6	3	0	2	1	4	N 41° E	N 46° E	2·9	2·2	+0·7	46	+14	42	− 2	·402	−·018	2·1	+0·7	1	−0·3	0·15	0·98	−0·83	0·37	2·18	− 1·81	0·15	Chanda.
5	1	0	0	0	2	0	3	0	S 72° W		1·4			10		63		·511		1·7		1		0·42	0·47	−0·05	1·95	1·83	+ 0·12	0·38	Jagdalpur.
																															XIII.—Hyderabad.
8	3	5	5	2	1	1	3	3	N 37° E		6·0			23		30	− 2	·282	−·020	1·8	+0·9	0	−0·5	0·03	0·28	−0·25	0·03	0·99	− 0·96	0·02	Aurangabad.
3	3	3	4	0	0	0	1	3	N 3° E		2·2			14		34	−17?	·340	−·181?	2·1	+0·8	0	−1·0	0	0·54	−0·54	0·14	1·33	− 1·19	0	Nizamabad.
0	1	4	0	0	0	23	1	2	S 56° W		4·3†			61		52	+ 1	·513	−·004	2·0	+1·0	0	−1·2	0	0·38	−0·38	0·45	1·23	− 0·78	0	Bidar.
4	2	7	5	6	3	2	1	1	S 85° E	N 79° E	3·5	5·8	−2·3	37	+16	40	− 5	·371	−·033	1·2	+0·3	0	−0·8	0	0·36	−0·36	0·02	0·89	− 0·87	0	Gulbarga.
2	2	2	3	11	1	2	3	5	S 53° E	S 3° W	5·3	5·3	0	17	−11	47	0	·483	−·007	1·8	+0·5	1	+0·6	0·24	0·25	−0·01	0·34	0·75	− 0·41	0·24	Raichur.
2	0	2	1	4	2	6	4	2	S 50° W	S 47° E	3·0	3·1	−0·1	27	+15	54	− 1	·491	−·013	1·8	+0·4	1	0	0·85	0·66	+0·19	1·65	1·31	+ 0·34	0·80	Hyderabad (Deccan).
4	1	0	0	12	12	1	0	1	S 20° E		3·4			69		62	− 1	·577	−·018	2·6	+0·6	2	+1·5	2·50	0·28	+2·22	3·19	1·18	+ 2·01	1·74	Hanamkonda.
																															XIV.—Mysore.
5	1	1	1	2	2	4	3	2	S 53° W	S 56° W	4·0	4·7	−0·7	17	−20	49	− 1	·434	−·047	1·6	+0·6	1	+0·5	0·69	0·24	+0·45	4·89	0·81	+ 4·08	0·69	Chitaldrug.
3	3	0	4	5	1	0	3	2	S 89° E	S 37° E	3·4	2·2	+1·2	10	−13	74	+ 9	·539	+·007	4·1	+2·1?	1	+0·5	0·73	0·25	+0·48	1·25	1·21	+ 0·04	0·73	Hassan.
2	2	0	2	14	3	6	4	0	S 13° E	S 12° E	5·3	3·6	+2·2	53	+ 3	59	− 5	·450	−·075	1·3	−0·1	1	+0·1	0·37	0·55	−0·18	1·55	1·42	+ 0·13	0·28	Bangalore.
0	4	6	1	0	10	9	1		S 59° W	S 39° W	4·9	5·8	−0·9	27	−11	71	+ 2	·568	−·019	2·1	−0·5	2	+1·5	1·62	0·26	+1·36	1·75	0·99	+ 0·85	1·10	Mysore.
																															XV.—Madras.
11	7	13	0	0	0	0	0	0	N 48° E	N 70° E	5·0	2·2	+2·8	76	+36	72	− 1	·776	+·012	2·3	+0·2	0	−0·2	0	0·09	−0·09	0·02	0·68	− 0·66	0	Mangalore.
2	6	4	2	0	0	0	5	0	N 36° E	N 42° E	5·4	7·7	−2·3	33	−14	79	+ 3	·813	−·002	1·0	−0·9	0	−0·8	0	0·52	−0·52	0·35	2·21	−1·86	0	Calicut.
0	10	19	1	1	0	0	0	0	N 79° E	N 31° E	5·3	5·0	+0·3	89	+14	73	− 4	·767	−·066	2·4	+0·2	5	+2·1	1·70	2·01	−0·31	5·70	5·19	+ 0·51	0·52	Cochin.
2	7	4	3	0	0	0	2	0	N 57° E	N 24° E	3·8	4·0	−0·2	40	− 7	81	+ 5	·767	−·017	2·8	+0·5	1	−1·6	0·62	1·62	−1·00	7·82	5·28	+ 2·54	0·60	Trivandrum.
1	11	11	2	3	2	1	0	0	N 81° E	S 87° E	5·5	5·4	+0·1	59	−10	76	− 1	·820	−·033	2·5	−0·3	1	−0·3	0·30	0·48	−0·18	10·20	10·70	− 0·50	0·30	Pamban.
8	9	5	0	1	1	2	4	0	N 21° E	N 28° E	3·9	2·8	+1·1	53	+ 3	71	− 3	·717	−·058	4·9	+2·2?	2	+1·2	3·10	0·47	+2·63	9·32	3·13	+ 6·19	1·80	Madura.
5	5	2	0	0	1	1	1	0	N 24° E		3·3			32		74	− 1	·706	−·051	2·6	−1·5	1	−0·4	0·25	0·27	−0·02	4·41	4·40	+ 0·01	0·25	Pudukkottai.
3	6	4	6	3	1	1	7	0	N 54° E	S 86° E	7·7	4·6	+3·1	27	− 9	78	+ 3	·787	−·038	2·8	−1·2	1	+0·3	0·18	0·37	−0·19	7·88	14·50	− 6·62	0·18	Negapatam.
7	7	1	1	1	1	4	0	0	N 12° E	N 31° E	2·3	2·8	−0·5	30	+ 8	71	− 2	·705	−·050	2·5	−0·1	0	−0·6	0	0·43	−0·43	2·89	4·27	− 1·38	0	Trichinopoly.
5	11	3	1	1	0	0	1	0	N 43° E	N 84° E	3·6	2·1	+1·5	53	+13	68	−11	·605	−·118	2·3	−1·3	3	+2·0	0·74	0·51	+0·23	1·83	2·60	− 0·77	0·34	Coimbatore.
2	10	5	0	0	1	2	0	0	N 48° E	N 66° E	4·4	3·9	+0·5	40	0	72	0	·642	−·088	1·6	−0·3	0	−1·0	0·09	0·53	−0·44	1·01	2·12	− 1·11	0·09	Salem.
3	1	0	2	3	3	4	7	0	N 76° W	N 86° W	5·3	1·8	+3·5	30	−20	81	− 2	·754	−·083	2·6	+0·3	0	−0·3	0	0·19	−0·19	5·60	10·04	− 4·44	0	Cuddalore.
0	0	0	1	0	0	1	2	0	N 68° W		2·4			6		78	+ 2	·645	−·034	1·0	−0·8	0	−0·3	0	0·25	−0·25	5·01	5·14	− 0·13	0	Vellore.
1	0	1	1	5	11	4	4	0	S 53° W	S 25° W	3·5	4·5	−1·0	56	+ 2	84	+ 5	·824	+·009	1·5	−0·9	0	−0·4	0·02	0·16	−0·14	16·31	7·57	+ 8·74	0·02	Madras.
4	5	2	8	3	1	2	5	0	N 70° E	S 72° E				17	−40	71	+13	·770	+·111	0·6	−0·6	1	+0·9	0·34	0·19	+0·15	1·88	1·64	+ 0·24	0·17	Cuddapah.

* Mean of 30 days.
† „ „ 22 „

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras—*concld.*																					
	Bellary	1,475	28·474	+·013	29·879	28·550	4th	28·378	21st	80·2	69·1	97·8	−2·7	70·0	−2·2	83·9	−2·5	27·8	101·3	20th	63·1	9th
	Kurnool	923	29·018	+·025	29·896	29·119	5th	28·895	21st	77·4	67·1	98·4	−2·4	70·2	−1·3	84·3	−1·9	28·2	102·0	21st	63·2	9th
33	Nellore	66	29·896	+·012	29·897	30·014	4th	29·767	21st	77·7	73·5	92·3	−3·0	71·9	−0·6	82·1	−1·8	20·4	97·6	22nd	68·3	13th
	Masulipatam	15	29·964	+·012	29·913	30·079	4th	29·844	21st	78·3	75·5	89·8	−1·3	70·5	−1·5	80·1	−1·6	19·3	96·4	11th	65·5	7th
	Cocanada	26	29·951	+·010	29·914	30·076	4th	29·831	21st	78·7	73·5	93·0	+1·0	72·8	−0·8	82·9	+0·1	20·2	98·1	11th & 15th.	68·7	4th & 5th.
	Waltair (Vizagapatam)	*226*	29·739	+·003	29·900	29·855	4th	29·601	21st	78·4	72·1	87·9	+0·9	73·0	−1·8	80·5	−0·5	14·9	91·4	21st	69·7	27th
	Calingapatam	19	29·937		29·894	30·063	4th	29·795	21st	77·2	72·6	91·4		71·3		81·4		20·1	102·0	11th	67·0	8th
	Gopalpur	33	29·888	+·013	29·885	30·011	4th	29·711	21st	77·6	71·8	87·2	+0·6	72·4	−0·6	79·8	0	14·8	38·3	11th	68·7	28th
	Bay Islands.																					
1	P. V. Fraser	8	29·959		29·883	30·036	4th	29·820	21st	80·7	77·1											
	Port Blair	58	29·919	+·019	29·908	29·999	4th	29·827	28th	80·3	75·5	89·2	−1·4	75·1	−1·3	82·2	−1·3	14·1	92·2	26th	71·3	11th
	Table Island		29·887	−·013	29·912	29·989	4th	29·796	27th	79·1	74·2	85·8	−1·1	76·2	−0·1	81·0	−0·6	9·6	88·7	28th	74·0	16th
	Kashmir.																					
13	Muzaffarabad		27·663			27·742	8th	27·301	22nd	54·0	49·1	65·0		47·2		56·1		17·8	76·3	28th	33·6	23rd
	Srinagar	5,204	24·927	+·002	24·893	25·092	26th	24·595	22nd	42·1	40·6	51·9	−3·9	39·1	+1·8	45·5	−1·1	12·8	64·9	15th	32·9	24th & 25th.
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·797	+·022	20·765	20·991	14th	20·402	23rd	15·3		31·0	−2·6	6·6	+2·5	18·8	−0·1	24·4	40·2	10th	−16·1	25th
	Leh	*11,503*	19·658	−·008	19·626	19·840	13th	19·261	23rd	30·8	34·0*	49·1‡	+4·8‡	24·3	+3·5	37·0‡	+4·1	24·8	58·1	31st	12·0	25th
	Skardu	*7,505*	22·857	−·029	22·827	23·065	26th	22·426	23rd	38·5	35·1†	50·2	+0·2	35·6	+2·9	42·9	+1·5	14·6	60·0	16th	28·3	25th
	Gilgit	4,890	25·153	−·020	25·126	25·373	13th	24·780	22nd	51·2	43·2	63·2	+1·6	45·6	+0·6	54·4	+1·1	17·6	69·7	12th	35·7	25th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·422		25·391	25·550	9th	25·149	22 nd	50·0	44·0‖	64·9		44·4		54·7		20·5	74·9	2nd	33·5	23rd
	Quetta	5,502	24·640	−·020	24·600	24·773	10th	24·403	21st	42·3	42·6§	59·2	−4·5	38·7	−0·5	48·9	−2·5	20·5	70·1	2nd	24·1	24th
	Chaman	4,311	25·681	−·024	25·643	25·860	9th	25·435	21st	47·8	45·1‖	60·8	−2·3	43·3	0	52·0	−1·1	17·5	73·7	2nd	25·8	22nd
	Kalat	6,630	23·718		23·680	23·864	1st	23·489	21st	38·6	38·8§	58·0	−5·4	35·2		46·6		22·8	71·0	2nd	20·5	23rd
	Dalbandin	2,772	27·135		27·098	27·345	8th	26·925	21st	52·2	48·8	72·9		44·2¶		57·8¶		28·7	86·0	1st	29·8	8th
	Pasni		29·987		29·947	30·093	23rd	29·931	15th	66·6	63·8	82·7		58·9		70·8		23·8	95·6	2nd	47·1	23rd
	Panjgur		26·751		26·709	26·883	8th & 9th.	26·547	21st	50·4	46·2	73·7		47·4		60·6		26·3	88·6	2nd	35·0	24th
	Robat		26·861		26·819	27·107	8th	26·669	18th	51·3	45·5	68·4		41·4		54·9		27·0	80·5	21st	26·7	22nd
	Seistan		25·234			28·540	8th	28·010	18th	47·9	45·7	67·8		43·8		55·7		24·0	80·0	2nd	30·8	23rd
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·438	−·006	24·414	24·538	9th	24·095	22nd	43·6	40·2	57·1	−1·0	28·6	+0·2	42·8	−0·4	18·5	68·2	15th	28·1	24th
	Cherat	*4,256*	25·732	+·014	25·700	25·853	9th	25·410	22nd	49·4	43·4**	55·9	−4·6	44·8	−2·1	50·4	−3·3	11·1	72·0	15th	30·3	23rd
	Presb (c)		25·153			25·300	26th	24·775	22nd	43·1	40·0	53·5	−5·1	39·5‖	+0·2	46·8‖	−2·5	14·0	66·7	13th	31·0	24th
	Murree	6,333	23·783	−·052	23·751	23·917	1st	23·461	22nd	45·1	39·5‖	51·2	−5·9	40·4	−1·7	45·8	−3·8	10·8	63·1	14th	25·6	24th

N.B.—Elevations in italics indicate barometrical determinations.

(c) Aneroid.

* Mean of 2 days.
† " " 26 "
‡ " " 18 "
§ " " 25 "
‖ " " 29 "
¶ " " 24 "
** " " 30 "

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*continued.*

Stations in India, etc., in March, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal.	Total rainfall from 1st December 1917 to 31st March 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras—*concld.*
5	2	0	2	5	4	7	3	3	S 29° W	S 45° W	3·5	3·4	+0·1	33	+22	56	+ 9	·574	+·082	1·2	−0·3	0	−0·6	0	0·22	−0·22	0·58	0·52	+0·06	0	Bellary
17	1	0	3	3	2	1	0	4	S 56° E	E	3·5			7	− 4	56	+ 3	·527	−·019	1·3	+0·2	1	+0·5	0·70	0·28	+0·42	1·16	0·84	+0·32	0·69	Kurnool
4	0	0	1	0	6	16	4	3	S 39° W	S 32° E	3·2	4·7	−1·5	69	+ 1	81	0	·769	−·039	2·4	−0·4	0	−0·2	0	0·15	−0·15	12·32	4·86	+7·46	0	Nellore.
5	0	0	1	8	6	6	3	2	S 8° W	S 20° E	4·5	4·0	+0·5	26	+ 3	87	+ 4	·840	−·024	2·6	−0·9	0	−0·3	0	0·29	−0·29	2·45	1·85	+0·60	0	Masulipatam.
9	1	0	0	0	1	4	7	9	N 78° W	N 52° W	4·7	4·7	0	53	+10	79	+ 2	·770	−·008	3·4	+0·6	0	−0·8	0	0·52	−0·52	2·02	1·98	+0·04	0	Cocanada
3	0	0	1	1	1	18	7	0	S 51° W	S 88° W	4·1			72	− 3	72	− 1	·701	−·030	2·3	−0·6	0	−0·7	0·07	0·35	−0·28	0·93	2·64	−1·71	0·07	Waltair (Vizagapatam).
0	2	1	0	0	0	3	14	11	N 71° W		6·1			78		79		·742		1·0		2	+1·7	0·93	0·52	+0·41	1·29	2·39	−1·10	0·68	Calingapatam.
1	6	1	1	0	8	9	0	5	S 63° W	S 89° W	9·0	10·1	−1·1	30	−12	75	− 3	·708	−·032	1·5	+0·7	2	+0·9	0·67	0·57	+0·10	1·06	2·11	−1·05	0·49	Gopalpur.
																															Bay Islands.
3	1	0	0	0	3	20	3	1	S 50 W					74		84		·881		2·9		6		0·06	1·03	−0·97	0·06	3·14	3·08	0·06	P. V. Fraser.
34	7	4	3	0	0	0	0	3	N 18° E	N 22° W	3·2	3·1	+0·1	43	+ 3	79	− 5	·814	−·041	2·2	1·0	1	0	0·15	0·71	−0·26	14·09	10·15	+3·94	0·43	Port Blair.
0	15	1	4	0	0	0	5	0	N 13° W		2·9			69		78	+ 2	·781	−·010	1·2	−4·2	0	−0·5	0	0·16	−0·16	6·21	3·47	+2·74	0	Table Island.
																															Kashmir.
15	0	0	1	1	2	12	0	0	S 33° W		1·9			12		71		·291		7·2		14		12·45	4·05	+8·40	19·32	15·39	+3·93	2·70	Muzaffarabad.
3	3	1	2	3	9	2	3	10	N 64° W	S 3° W	4·0	3·5	+0·5	23	+15	35	− 3	·334	+·001	8·0	+1·9	10	+2·1	5·84	3·55	+2·29	9·98	10·68	−0·70	0·98	Srinagar.
																															Gulmarg.
22	1	1	3	0	0	1	2	1	N 11° E		1·3			6						6·9	+1·2	20	+8·9	7·51	3·61	+3·90	13·66	10·89	+2·77	1·10	Dras.
26	0	0	0	0	2	3	0	0	S 18° E	S 63° W	2·5	1·5	+1·0	13	− 7	19*		·173*		6·0	+0·3	1	−0·1	0·16	0·30	−0·14	0·55	1·17	−0·62	0·12	Leh.
22	0	0	0	3	0	0	2	4	S 59° W		3·1			7		7	− 9	·164*	−·010	7·5	+0·9	6	+2·9	1·37	0·83	+0·54	1·91	2·98	−1·04	0·29	Skardu.
30	0	0	0	0	0	1	0	0	S 45° W		0·4			5		81**	+ 3	·135	+·020	7·2	+0·4	0	−1·6	0·14	0·43	−0·29	0·25	1·00	−0·75	0·04	Gilgit.
																															Baluchistan.
16	0	0	1	1	4	4	5	0	S 39° W		3·5			39		68†		·211†		4·9		10		4·20	1·78	+2·42	6·20	4·06	+2·14	1·26	Fort Sandeman.
16	0	1	4	2	3	1	3	0	S 19° E	S 12° W	2·0	2·0	0	20	+ 9	33	+30	·243	+·036	5·5	+2·0	13	+7·0	4·19	1·90	+2·29	7·15	6·78	+0·37	0·93	Quetta.
1	1	4	9	10	4	2	0	0	S 64° E	S 31° E	4·8	7·2	−2·4	52	+11	74	+16	·258†	+·043	5·6	+1·3	9	+4·3	5·16	1·58	+3·58	9·27	5·71	+3·56	1·45	Chaman.
30	0	0	0	0	0	1	0	0	S 45° W	S 22° W	3·5			3	−57	73¶	+10	·207¶	+·010	3·5		6	+3·3	3·77	0·95	+1·82	3·39	4·47	−1·08	1·32	Kalat.
3	4	8	5	2	5	2	1	1	N 73° E		5·9			39		77		·309		4·0		5		1·57	0·37	+1·20	3·25	2·79	+0·46	0·71	Dalbandin.
2	3	1	2	0	1	0	11	11	N 57° W		6·3			62		85		·560		3·2		3		5·97	0·47	+5·50	6·50	5·01	+1·49	3·43	Pasni.
12	0	8	7	2	1	0	0	1	N 74° E		5·8			46		71		·272		4·6		6		1·39			1·80			0·35	Panjgur.
7	0	3	3	0	0	9	3	0	S 67° W		3·8			37		64		·242		4·5		6		2·88	0·71	+2·17	3·50	2·95	+0·55	1·12	Robat.
16	8	0	0	0	0	0	0	7	N 22° W		5·5			45		77‡		·277‡		2·9		7		2·23			2·48			0·79	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		1·1			(a)		72‡	+ 8	·207‡	+·013	5·1	+0·6	14	+4·8	10·02	4·43	+5·59	12·78	10·05	+2·73	2·11	Para Chinar.
4	15	1	0	1	3	6	0	7	N 12° W	N 10° W	8·1	10·4	−2·3	56	0	61§	+ 4	·206§	0	5·6	+1·4	11	+4·7	8·71	4·24	+4·47	11·75	11·55	+0·20	2·82	Cherat.
29	0	0	2	0	0	0	0	0	E		1·2			6		76‖	+ 7	·210‖	+·012	6·7	+2·0	13	+6·7	7·38	2·95	+4·43	9·73	6·01	+3·72	2·14	Drosh.
8	3	1	2	16	0	0	1	2	S 60° E	S 83° E	6·3	6·6	−0·3	16	+14	59¶	+ 3	·174¶	−·003	6·3	+1·5	14	+7·0	13·82	4·55	+9·27	21·61	14·34	+7·30	·281	Murree.

(a) Indeterminate.

* Mean of 2 days.
† ,, 26 ,,
‡ ,, 29 ,,
§ ,, 25 ,,
‖ ,, 30 ,,
¶ ,, 24 ,,
** ,, 19 ,,

of hill or plateau stations, the elevations of which exceed 3,200 feet.

Table

(2) Abstract of observations taken at 8 hrs. at 21

Number of subdivision.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
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 —contd.																					
	Simla	7,232	23·113	+·023	23·075	23·265	8th	22·857	23rd	58·0	40·3*	55·0	−0·5	42·8	−1·1	48·9	−0·8	12·2	63·1	1st	31·0	24th
	Chakrata	7,072	23·374		23·333	23·531	8th	23·193	22nd & 23rd.	49·7	42·4	59·8	−1·1	43·6	−0·1	51·7	−0·6	16·2	70·1	31st	33·9	23rd
	Mukteswar	7,592	22·853	+·001	22·812	22·981	8th	22·699	21st	49·2	40·4	61·0	+0·8	45·0	+0·1	52·0	+0·5	18·0	71·3	31st	32·0	22nd
	Darjiling	7,432	22·918	+·006	22·903	23·035	7th	22·788	21st	48·6	44·6	57·2	+0·9	44·0	+1·9	50·6	+1·4	13·2	64·3	7th	39·7	27th
	Shillong	4,920	25·154	+·019	25·106	25·256	7th	24·997	21st	61·7	52·1	70·9	+0·7	51·9	+1·2	61·4	+0·9	19·0	74·1	11th	43·7	27th
	Cherrapunji	4,309	25·716	+·001	25·667	25·814	4th & 7th.	25·549	21st	60·5	56·1	67·8	+0·7	55·2	+1·3	61·5	+1·0	12·6	72·6	31st	51·6	27th
	Netarhat		26·246		26·195	26·319	1st	26·168	16th	71·1	56·1	82·6		57·5		70·1		2·1	88·2	21st	50·0	25th & 26th.
	Maymyo	3,546	26·458	−·012	26·403	26·556	4th	26·347	21st	61·0	55·9	80·3	−1·1	51·3	+1·2	65·8	+·1	29·0	83·2	9th	46·3	29th
	Pachmarhi	3,528	26·491	−·013	26·438	26·593	8th	26·329	21st	66·7	55·0	84·2	−0·1	58·5	−1·5	71·4	−0·8	25·7	92·5	31st	47·6	27th
	Mount Abu	3,945	26·093	+·005	26·043	26·202	8th	25·901	22nd	71·0†	53·4†	78·2†	+1·3	61·7†	−0·5	69·5†	+0·4	17·5	84·5	31st	45·6	17th
	Mercara	3,721	26·235	−·003	26·198	26·308	9th	26·223	25th	66·5	61·5	84·3	−0·3	59·4	−2·2	71·9	−1·3	24·9	88·0	20th	56·8	10th
	Ootacamund	*7,327*	23·092	+·007	23·028	23·136	7th	23·042	24th	58·6	47·2	68·9	−0·4	46·6	−1·4	57·8	−0·9	22·3	71·5	21st	39·7	5th
	Kodaikanal	7,683	22·854	−·016	22·791	22·900	7th	22·812	24th & 31st.	55·6	45·7	68·5	0	47·9	−2·9	58·2	−1·5	20·6	74·2	21st	44·2	3rd
	Extra India.																					
	Singapore (*c*)	10	29·875	−·070	29·806	29·973	3rd	29·792	24th	83·4		88·7	0	72·8	−0·5	80·7	−0·3	15·9	91·5	26th & 30th.	70·5	1st
	Penang (*a*)	17	29·859	−·061	29·801	29·936	4th	29·758	27th	82·2		91·8	+0·3	72·2	−1·8	82·0	−0·7	19·6	95·5	30th	68·0	1st & 2nd.
	Trincomalee *	99	29·871	+·018	29·899	29·927	6th	29·794	24th	78·4	74·5	88·0	−0·1	75·5	−0·5	81·7	−0·3	12·5	93·5	23rd	71·2	1st
	Colombo	24	29·932	0	29·882	30·005	4th	29·853	24th	74·0	72·1	88·4	−1·3	73·2	−1·8	80·8	−1·5	15·2	90·2	18th	69·6	2nd
	Hambantota	61	29·900		29·890	29·960	1st	29·822	24th	79·0	71·9	85·4		73·2		79·3		12·2	87·6	23rd	67·5	1st
	Minicoy	7	29·976	+·020		30·053	1st	29·899	24th													
	Amini Divi	*13*	29·951	−·010	29·892	30·001	9th	29·885	24th	84·1	76·8	92·2	+3·4?	77·7	−0·1	84·8	+1·7?	14·5	95·4	21st	74·3	10th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·472	+·003	24·427	24·534	2nd	24·369	24th	53·5	49·8	65·3	−1·0	48·3	+6·6	56·8	+2·8	17·0	72·5	9th	44·2	27th
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·443	−·167		25·652	4th	25·130	23rd	43·4	37·7‡	59·7	+3·6	36·4	+1·4	48·0	+2·5	23·3	71·3	18th	23·4	3rd
	Kabul (*c*)																					
	Meshed	3,104								37·4	37·7†	53·3	−2·8	32·8	−3·4	43·0	−3·1	29·5	70·4	31st	14·0	22nd
	Jask	13	29·968	−·005	29·934	30·091	8th	29·827	14th	68·8	63·9	79·5	+0·3	65·6	−1·0	72·6	−0·3	13·9	87·7	5th	61·1	23rd
	Muscat	20	29·966	−·014	29·935	30·110	9th	29·816	14th	74·1	65·1	81·1	+2·7	72·5	+0·5	76·8	+1·6	8·6	88·9	3rd	67·9	23rd
	Bushire	14	29·986	−·002	29·963	30·125	8th	29·769	25th	61·4	57·0	68·5	−3·9	57·9	−1·1	63·2	−2·5	10·6	79·2	25th	51·4	8th
	Busrah	25	30·017	−·017	30·012	30·248	1st	29·636	16th	53·4	54·9	72·7	−0·9	51·8	−4·5	62·3	−2·7	20·9	81·7	31st	42·6	7th
	Ispahan (*d*)	*5,817*	24·706	−·034		24·890	2nd	23·950	16th	39·9	37·3§	57·8	−2·9	35·4	−1·1	46·6	−2·0	22·4	70·4	31st	26·2	8th
	Tehran (*d*)	*4,002*	25·707(*c*)	−·123		25·950	2nd & 6th.	25·420	25th	44·5	39·8	55·6	−3·0	37·4	−1·2	46·5	−2·1	18·2	72·9	31st	29·0	21st
	Baghdad	127	29·876	−·010		30·172	1st	29·456	16th	50·5	47·6	68·3	−4·6	47·8	−1·8	58·1	−3·2	20·5	79·9	31st	42·8	1st
	Aden	94	29·875	−·022	29·902	30·010	1st	29·750	16th	77·3	73·0	83·3	−0·3	75·4	0	79·4	−0·1	7·9	87·2	17th	69·7	4th
	Zanzibar	72	29·914	+·014	29·912	29·979	1st	29·789	29th	82·5	76·9	87·0	+0·3	79·6	+0·2	83·3	+0·3	7·4	89·6	24th	74·7	4th

N.B.—Elevations in italics indicate barometrical determinations.

(*a*) 9 hrs. observations.
(*c*) Aneroid.
(*d*) 7 hrs. observations.

* Mean of 30 days.
† " " 26 "
‡ " " 29 "
§ " " 23 "

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*concluded.*

tations in India, etc., in March, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917 to 31st March 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	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	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																52*	+ 7	·169*	+·024	5·6	+1·4	9	+4·1	4·68	2·69	+1·99	6·38	9·98	−3·60	0·97	Simla.
3	0	16	8	1	0	1	0	2	N 58° E	N 13° E	7·5	5·2	+2·3	66	+27	53	+ 4	·197	+·022	4·1	+1·2	7	+2·4	7·86	3·09	+4·77	11·97	13·40	− 1·43	2·60	Chakrata.
5	3	0	3	1	0	0	18	1	N 79° W		7·9			49		48	+ 2	·160	−·003	3·5	−0·1	7	+3·5	1·60	2·24	−0·64	3·01	7·92	− 4·91	0·34	Mukteswar.
16	0	0	2	2	1	0	8	2	S 81° W	S 37° E	3·5	5·5	−2·0	20	+ 9	75	+ 2	·254	+·007	4·3	+0·7	8	+4·4	5·63	1·83	+3·80	6·08	3·83	+ 2·25	1·18	Darjiling.
10	0	1	0	0	9	10	1	0	S 26° W		4·4			56		52	0	·232	+·023	2·5	+0·2	2	−3·3	0·41	2·23	−1·82	0·88	4·23	− 3·35	0·15	Shillong.
5	1	2	4	2	3	8	6	0	S 33° W		6·6			33		78	+ 8	·401	+·042	6·1	+2·4	10	+3·0	8·85	9·12	−0·27	9·12	13·18	− 4·06	3·05	Cherrapunji.
0	2	1	0	0	0	4	3	21	N 53° W		3·0			81		37		·283		0·2		0		0·06			0·64			0·06	Netarhat.
25	0	0	0	0	0	6	0	0	S 45° W		1·5			20		72	+ 2	·385	−·037	1·5	−0·1	0	−1·1	0·01	0·57	−0·56	0·13	1·49	− 1·36	0·01	Maymyo.
8	1	4	1	3	3	4	4	3	S 56° W	N 3° W	3·8	3·7	+0·1	10	+ 6	47	+11	·305	+·034	1·4	−0·3	1	+0·1	0·15	0·51	−0·36	0·59	2·22	− 1·63	0·10	Pachmarhi.
8	1	2	0	1	1	8	4	6	S 87° W	N 23° W	3·5	5·3	−1·8	40	+11	28‡	− 8	·214‡	−·018	2·3	+0·2	0	−0·4	0	0·19	−0·19	0·12	0·32	− 0·20	0	Mount Abu.
19	3	3	3	0	0	0	1	2	N 23° E	N 22° E	2·1	2·7	−0·6	27	+ 5	75	+ 6	·487	−·008	1·8	−1·4	0	−1·8	0	0·65	−0·65	0·57	1·77	− 1·20	0	Mercara.
5	0	2	11	8	3	1	0	1	S 67° E		3·5			59		43	− 4	·210	−·028	1·4	−0·5	4	+1·8	2·36	1·25	+1·11	5·23	5·38	− 0·15	0·77	Ootacamund.
0	12	4	6	3	1	0	0	4	N 28° E		9·6			56		47	0	·207	−·022	1·3	−0·5	5	+1·8	1·02	2·35	−1·33	8·48	11·16	− 2·68	0·37	Kodaikanal.
																															Extra India.
2	2	23	0	4	0	0	0	0	N 51° E					79						5·8	+1·3	4	−5·8	1·33	7·58	−6·25	37·53	38·20	− 0·76	0·61	Singapore.
0	10	20	0	1	0	0	0	0	N 32° E					89								4	−2·8	2·05	4·04	−1·99	8·98	17·88	− 8·90	1·26	Penang.
14	1	3	4	0	2	5	1	0	S 34° E	S 37° W	4·0†	4·1	−0·1	10	−13	83	− 2	·803	−·069	4·1	+1·4	1	−1·2	0·15	1·49	−1·34	25·75	23·27	+ 2·48	0·15	Trincomalee.
27	1	2	0	1	0	0	0	0	N 51° E	S 58° E	2·5	3·9	−1·4	10	−22	91	+12	·758	−·093	5·3	+2·2	3	−2·7	1·85	4·30	−2·45	10·60	15·49	− 4·89	0·83	Colombo.
2	17	10	3	0	0	0	1	1	N 12° E		8·5			86		89		·752		3·2		5		3·26			17·94	12·44	+ 5·50	1·79	Hambantota.
0	13	10	1	1	0	0	1	5	N 10° E	N 20° W	2·2	3·9	−1·7	78	+21					2·5	−0·3	2	+0·3	2·24	0·97	+1·27	10·98	6·89	+ 4·09	1·46	Minicoy.
1	12	6	0	0	0	0	2	10	N 12° W		1·6			78		70	− 3	·820	−·026	3·3	+0·1	1	+0·9	0·22	0·01	+0·18	6·01	1·68	+ 4·33	0·22	Amini Divi.
																									0·07			0·11			Gyantse.
																									0·83			1·48			Pharijong.
31	0	0	0	0	0	0	0	0	Calm		1·4			(a)		79	+ 5	·320	+·011	1·0	−1·2	14	+5·5	10·60	4·99	+5·61	14·17	9·73	+ 4·44	2·47	Gangtok.
																									0			0			Gartok.
27	3	0	0	0	0	0	1	0	N 18° W	N 1° W	1·4	1·8	−0·4	10	+ 2	56†	−1	·161†	+·008	5·3	+0·5	0	−0·3	0	0·33	−0·33	0·30	0·81	− 0·51	0	Kashgar.
										N 80° W															3·90			6·97			Kabul.
31	0	0	0	0	0	0	0	0	Calm		1·4			(a)		83†	+ 5	·208‡	−·021	5·9	+0·6	6	+0·9	4·21	2·23	+1·98	7·91	4·57	+ 3·34	1·14	Meshed.
7	5	4	6	0	0	2	1	6	N 22° E	N 23° E	9·5	8·0	+1·5	40	+ 4	75	+ 6	·533	+·072	2·4	−0·1	6	+4·3	4·77	0·72	+4·05	7·23	3·66	+ 3·57	3·27	Jask.
2	2	2	5	4	1	1	7	7	N 42° W	N 72° W	5·2	3·4	+1·8	17	−13	59	− 9	·502	−·081	3·6	+1·3	1	−0·9	0·39	0·65	−0·26	1·51	3·22	− 1·71	0·26	Muscat.
18	3	1	2	1	1	0	0	5	N 1° W	N 41° E	4·7	6·2	−1·5	18	−22	75	− 3	·311	−·018	4·0	+0·1	3	+0·8	1·60	1·03	+0·57	6·55	8·66	− 2·11	0·60	Bushire.
2	1	2	2	2	4	3	12	3	S 75° W		5·3			36		74		·378		3·0		4	+1·9	2·45	1·09	+1·36	8·79	4·46	+ 4·33	0·92	Busrah.
26	0	0	0	0	0	3	2	0	S 63° W	S 82° W	2·0	4·6	−2·6	13	−31	64§	− 1	·175§	+·007	2·7	−0·7	3	−0·4	0·72	1·05	−0·33	3·05	2·94	+ 0·11	0·36	Ispahan.
16	4	8	1	0	0	1	1	0	N 29° E	N 14° E	3·7	2·8	+0·9	32	+10	67	+ 8	·194	+·038	5·4	+1·1	9	+3·4	2·87	1·91	+0·96	6·04	5·81	+ 0·23	0·97	Tehran.
3	3	6	2	4	2	1	5	5	S 7° W	N 11° W	8·2	2·9	+5·3	6	−18	80	+16	·290	+·007	3·5	+0·8	3	−0·6	0·86	1·36	−0·50	5·02	4·99	+ 0·03	0·36	Baghdad.
4	4	21	1	0	0	0	0	1	N 38° E	N 82° E	15·8	11·5	+4·3	79	0	81	+ 4	·754	+·021	5·0	+0·1	1	+0·2	0·18	0·54	−0·36	0·41	1·22	− 0·81	0·18	Aden.
9	5	6	2	5	2	2	0	0	N 76° E	S 27° E	2·8	3·9	−1·1	26	+ 4	77	− 5	·847	−·047	5·6	−0·4	4	−4·3	4·37	6·50	−2·13	8·50	17·28	− 8·78	2·32	Zanzibar.

† of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 30 days.
† " " 29 "
‡ " " 26 "
§ " " 23 "

(a) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 70 fourth and fifth class stations in India, etc., in March, 1918.

Table

Abstract of observations taken at 8 hrs. at 70 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	66·7	61·0	79·5	−2·5	61·2	+6·0	70·3	+1·7	18·3	87·3	31st	53·7	27th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	68·5	66·4	83·0	−0·3	52·9	−4·1	67·9	−2·2	30·1	90·0	16th	48·4	19th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	68·2	67·6	86·3	−1·5	60·8	+3·4	73·5	+0·9	25·5	92·6	5 days	53·6	28th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	63·8	61·8	79·5	+5·5	59·7	+3·2	69·6	+4·3	19·8	88·3	31st	53·0	13th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	64·5	62·6	78·0	−0·3	59·9	+2·5	68·9	+1·1	18·1	86·6	31st	52·4	13th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	64·5	63·7	78·8	−1·5	59·2	...	69·0	...	19·6	86·2	26th	53·9	13th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	68·8	66·0	84·4	−1·3	60·7	+0·5	72·5	−0·4	23·7	89·6	12th	55·8	28th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	65·4	63·6	78·7	−1·6	62·2*	+3·5	70·5*	+0·9	16·5	84·9	31st	58·2	13th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	68·4	64·8	85·3	...	57·1	...	71·2	...	28·2	92·9	11th	46·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Messa	70·5	65·0	85·1	−2·0	60·5	+5·3	72·8	+1·7	24·6	90·3	11th	55·1	13th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	61·9	59·6	82·7	+0·9	55·6	−0·2	68·9	+0·3	27·7	88·4	31st	49·8	28th	...	...	..	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	73·1	69·7	90·2	+2·1	65·7	+1·6	77·9	+1·9	24·5	95·0	12th	59·1	30th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	75·3	69·5	92·6	+2·9	64·1	+3·0	78·3	+2·9	28·5	97·9	10th	53·5	13th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	74·5	69·4	92·6	+1·0	67·3	+5·6	79·9	+3·3	25·3	96·6	10th	59·5	26th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dum Dim	67·2	63·3	87·1	+1·4	56·1	+3·0	71·7	+2·2	31·0	92·7	10th	46·6	27th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	73·2	67·1	86·1	+2·4	61·0	+5·9	73·5	+4·1	25·1	89·1	9th, 16th & 17th.	51·0	12th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	73·7	64·9	83·6	0	60·5	+1·3	72·1	+0·7	23·1	90·1	31st	51·0	26th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 20 days.

C.

and fifth class stations in India, etc., in March, 1918.

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.								STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 31st March 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam
...	...	...	...	...	86	— 6	·565	+ ·045	...	...	12	+7·2	7·12	2·39	+ 4·73	8·24	5·29	+ 2·95	1·20	Bishnath.
...	...	...	...	...	89	+11	·620	+ ·133	...	...	10	+6·0	4·65	1·97	+ 2·68	5·39	4·27	+ 1·12	1·45	Borjuli.
...	...	...	...	...	96	+ 9	·665	+ ·079	...	...	12	+8·2	10·84	3·97	+ 6·87	11·51	7·57	+ 3·94	2·50	Chandkhira.
...	...	...	...	...	89	— 5	·527	+ ·003	...	...	12	+1·8	5·43	5·55	— 0·12	7·89	10·52	— 2·63	1·37	Doom Dooma.
...	...	...	...	...	89	— 2	·543	+ ·035	...	...	12	+2·7	4·85	4·59	+ 0·26	6·92	8·99	— 2·07	0·76	Dikom.
...	...	...	...	...	96	+ 9	·580	+ ·060	...	...	13	+7·2	5·22	2·63	+ 2·59	6·32	5·91	+ 0·41	1·45	Golaghat.
...	...	...	...	...	85	— 2	·603	+ ·066	...	...	15	+8·3	9·65	5·57	+ 4·08	10·50	9·46	+ 1·04	2·10	Hailakandi.
...	...	...	...	...	90	+ 4	·566	+ ·049	...	...	11	+4·2	7·67	3·06	+ 4·61	8·89	6·57	+ 2·32	1·27	Jorehat.
...	...	...	...	...	82	...	·562	...	...	...	9	+3·6	4·28	2·31	+ 1·97	4·36	4·28	+ 0·08	1·10	Lumding.
...	...	...	...	...	73	— 4	·511	+ ·005	...	...	9	+5·2	6·02	2·24	+3·78	6·64	4·85	+ 1·79	2·80	Messa.
...	...	...	...	...	87	+ 6	·481	+ ·069	...	...	8	+2·3	3·97	2·68	+ 1·29	4·18	4·93	— 0·75	0·98	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	6	+2·6	3·84	2·94	+ 0·90	4·12	4·65	— 0·53	1·16	Comilla.
...	...	...	...	...	84	+ 5	·679	+ ·030	...	...	8	+3·8	5·06	3·66	+ 1·40	5·12	5·77	— 0·65	1·58	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	7	+4·2	4·50	2·07	+ 2·43	4·53	3·98	+ 0·55	1·82	Faridpur.
...	...	...	...	...	74	— 2	·649	+ ·036	...	...	5	+1·8	2·22	2·34	— 0·12	2·32	4·21	— 1·89	0·64	Goalundo.
...	...	...	...	...	76	+ 1	·653	+ ·063	...	...	2	−0·8	1·13	1·36	— 0·23	1·15	2·79	— 1·64	0·82	Pabna.
...	...	...	...	...	...	...	...	...	...	...	3	+0·9	2·50	1·30	+ 1·20	2·50	2·59	— 0·09	1·13	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	−2·0	0·11	1·21	— 1·10	0·11	2·24	— 2·13	0·09	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0	0·76	— 0·76	0·06	2·33	— 2·27	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	−1·9	0	1·26	— 1·26	0·06	2·33	— 2·27	0	Rangpur.
...	...	...	...	...	80	— 8	·533	+ ·057	...	...	2	−1·3	1·41	2·13	— 0·72	1·43	3·91	— 2·48	1·05	Dam Dim.
...	...	...	...	...	71	— 3	·588	+ ·051	..	...	2	−1·3	0·70	1·99	— 1·29	0·95	4·16	— 3·21	0·38	Kalchini.
...	...	...	...	...	61	—11	·503	+ ·049	...	...	7	+2·5	2·98	2·29	+ 0·69	3·52	4·65	— 1·13	1·35	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	−3·0	0	2·26	— 2·26	0	3·53	— 3·53	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	3	+0·8	3·59	1·66	+ 1·93	3·62	3·54	+ 0·08	2·39	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	1	−1·0	0·22	1·21	— 0·99	0·27	2·85	— 2·58	0·20	Bankura.
...	...	...	...	...	...	...	...	...	...	...	3	+1·1	0·63	1·13	— 0·50	0·80	2·70	— 1·90	0·36	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	1	−1·0	0·33	1·05	— 0·72	0·82	3·15	— 2·33	0·27	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·07	0·58	— 0·51	0·20	1·96	— 1·76	0·07	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	2	+0·9	0·23	0·51	— 0·28	0·23	1·69	— 1·46	0·13	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−0·8	0·11	0·56	— 0·45	0·11	1·81	— 1·70	0·09	Motihari.
...	...	...	...	...	...	...	...	...	...	...	1	+0·1	0·17	0·38	— 0·21	0·18	1·72	— 1·54	0·10	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−1·0	0	0·51	— 0·51	0·15	2·09	— 1·94	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−1·1	0	0·51	— 0·51	0·05	2·16	— 2·11	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 70 fourth

Number of sub division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	70·5	58·9	91·9	...	60·9	...	76·4	...	31·0	98·7	31st	49·9	27th	26	3	1	0	0	0	0	0	1	N	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	76·5	72·0	97·1	...	68·4	...	82·7	...	28·7	101·1	22nd	60·4	9th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	77·2	73·9	95·2	...	71·7	...	83·4	...	23·5	100·0	28th	65·8	8th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	68·7	61·2	88·5	...	61·6	...	75·1	...	26·9	92·0	21st	53·3	28th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	61·6	57·2	74·7	...	57·1	...	65·9	...	17·6	83·8	15th	47·3	24th	0	10	19	0	0	0	0	2	0	N 26° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	28·1	P	42·0	...	13·7	...	27·9	...	28·3	50·3	10th	5·5	11th	18	1	0	1	7	4	0	0	0	S 37° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	69·5	60·7	85·0	+1·8	63·4	+2·4	74·2	+2·1	21·6	91·0	31st	54·2	26th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	62·4	61·9	68·2	+1·3	54·2	+1·1	61·2	+1·2	14·0	73·9	26th	46·7	1st	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	49·6	+0·9	32·8	+1·7	41·2	+1·3	16·8	63·2	2nd	23·6	24th	1	0	3	5	1	5	4	1	2	S 31° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	59·5	−5·6	33·9	−2·3	46·7	−3·9	25·6	71·3	14th	18·0	24th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in March, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917 to 31st March 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heariest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	2	+ 0·6	0·65	0·64	+ 0·01	1·32	3·27	− 1·95	0·37	Meerut.
...	...	...	...	...	...	...	...	...	...	...	6	+ 2·8	1·23	1·26	− 0·03	2·77	6·91	− 4·14	0·27	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0·05	0·12	− 0·07	0·15	0·51	− 0·36	0·05	Udaipur.
																				XII.—Central Provinces.
1·1	...	...	14	...	48	...	·357	...	1·9	...	0	...	0·19	0·77	− 0·58	0·72	2·65	− 1·94	0·07	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·29	− 0·29	0	0·30	− 0·30	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	3	+ 1·1	0·88	0·90	− 0·02	8·35	7·21	+ 1·14	0·44	Tinnevelly.
...	...	...	...	...	80	...	·730	...	1·2	...	1	+ 0·7	1·12	0·18	+ 0·94	1·25	0·50	+ 0·75	1·12	Anantapur.
...	...	...	...	...	84	...	·792	...	0·3	...	0	− 0·7	0	1·64	− 1·64	2·36	2·09	+ 0·27	0	Guntur.
...	...	...	...	...	65	...	·453	...	...	...	4	...	1·82	...	...	2·83	...	...	0·65	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	0	− 2·7	0	1·32	− 1·32	26·74	14·59	+12·15	0	Car Nicobar.
																				Kashmir.
...	...	...	84	...	76	...	·421	...	4·9	...	8	+ 4·3	5·26	3·22	+ 2·04	6·86	10·36	− 3·50	1·42	Jammu.
...	...	...	...	...	...	...	...	...	...	...	18	+ 2·3	16·88	14·00	+ 2·88	32·56	40·95	− 8·39	4·36	Sonamarg.
...	...	...	32	...	?	...	?	...	7·7	...	5	+ 0·3	2·55	0·95*	+1·60	3·05*	5·11	− 2·06	0·62	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	8	+ 5·3	4·00	1·50	+ 2·50	4·78	4·89	− 0·11	0·93	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	59	+ 4	·410	+ ·017	...	...	3	− 0·5	0·98	2·35	− 1·37	1·00	4·53	− 3·53	0·65	Panighatta.
...	...	...	...	...	97	+36	·651	+ ·261	...	...	5	+ 1·3	1·61	2·82	− 1·21	1·70	5·46	− 3·76	0·54	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	18	...	13·10	7·15	+ 5·95	24·24	14·40	+ 9·84	1·40	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	17	...	7·61	5·93	+ 1·68	10·54	10·01	+ 0·53	1·10	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·32	...	...	14·52	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	9	...	3·87	...	...	7·07	...	...	0·86	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	9	+ 4·8	3·67	2·29	+ 1·38	6·87	9·37	− 2·50	0·72	Mussoorec.
...	...	...	19	...	...	...	...	...	5·6	+0·8	10	+ 3·5	6·42	3·15	+ 3·27	7·34	8·34	− 1·00	1·15	Poo.
...	...	...	...	...	...	...	...	...	...	...	16	+ 8·9	8·58	3·97	+ 4·61	10·44	10·76	− 0·32	1·55	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakioh.
...	...	...	...	...	...	...	...	...	5·0	...	14	+ 8·9	7·29	2·06	+ 5·23	11·53	7·06	+ 4·47	1·38	Pishin.

*Rainfall for December 1917 wanting.

Tabl

Abstract of observations taken at 8 hrs. at 70 fourth an

Number of sub-division.	STATION.	TEMPERATURE OF AIR.													WIND DIRECTION.									
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															*Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																							
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	34·0	?	52·3	...	30·0	...	41·1	...	22·3	56·8	10th	22·2	27th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	64·5	57·0	71·8	...	54·3	...	63·1	...	17·5	79·0	30th	44·5	6th	0	14	4	0	0	12	0	0	1	N 21° E	...
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	57·6	54·2	69·9	...	51·6	...	60·7	...	18·3	79·9	...	44·1	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pao	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	59·8	55·5	71·2	..	51·6	...	61·4	...	19·6	81·0	...	43·3	...	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah	58·8	55·9	73·2	−1·6	52·4	−4·1	62·8	−2·9	20·8	79·9	...	41·1	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah	57·0	51·7	71·5	...	50·5	...	61·0	...	21·0	82·4	...	41·5	...											
	Samarrah	51·1	49·2	65·4	...	46·7	...	56·5	...	19·7	78·7	...	37·6	...	...	...	...	...	...	...	...	...	...	...	...
	Ramadie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shahroban	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

fifth class stations in India, etc., in March, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917 to 31st March 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	6	...	3·44	...	...	...	...	...	0·80	Ahwaz.
...	...	...	...	...	92*	...	·192*	...	2·4	...	7	...	2·69	2·25	+0·44	3·24	4·11	−0·87	1·25	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	1	−6·3	0·70	5·90	−5·20	9·06	17·45	−8·39	0·68	Pemba.
...	...	...	20	...	65	...	·365	...	...	...	4	...	2·15	...	...	7·68	...	...	0·84	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
7·1	...	...	...	...	80	...	·380	...	3·5	...	9	...	1·65	...	...	...	...	...	0·90	Amarah.
...	...	...	...	...	...	...	...	...	...	...	6	...	2·89	...	...	...	...	...	0·87	Shushtar.
...	...	...	...	...	...	...	...	...	...	...	...	...	0·91	...	...	...	...	...	...	Fao.
6·1	...	...	...	...	76	...	·300	...	2·4	...	7	...	2·00	...	...	...	...	...	1·10	Kurna.
3·0	...	...	...	—	82	...	·420	...	3·3	...	6	...	2·23	...	...	...	...	...	0·75	Mohammerah.
...	...	...	...	...	67	...	·310	...	3·5	...	5	...	1·65	...	...	...	...	...	1·19	Nasiriyah
9·4	...	...	...	...	80	...	·300	...	5·9	...	11	...	2·45	...	...	...	...	...	0·99	Samarrah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ramadie.
...	...	...	...	...	...	...	...	...	...	...	7	...	1·52	...	...	...	...	...	1·30	Kut.
...	...	...	...	...	...	...	...	...	...	...	11	...	1·53	...	...	...	...	...	0·39	Shahreban.

SGPI-21-4-DGO205-9-21-325.

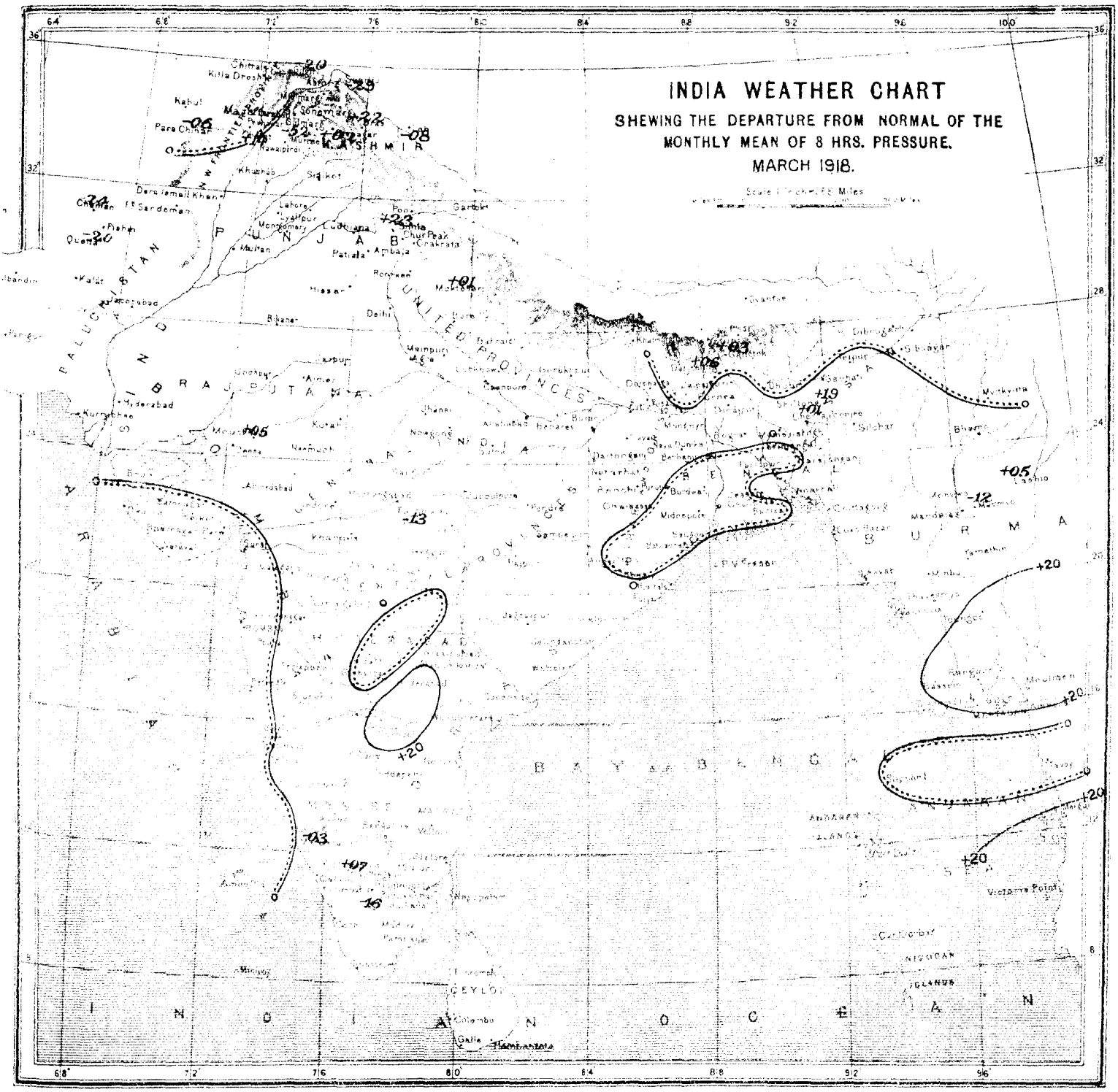
* Mean of 20 days.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather added to the wind arrow.							
,,	,, 2 to 5	,,	,,	,,	...	two	feathers	,,	,,	,,	,,	
,,	,, 5 to 10	,,	,,	,,	...	three	,,	,,	,,	,,	,,	
,,	,, 10 to 20	,,	,,	,,	...	four	,,	,,	,,	,,	,,	
	over 20	,,	,,	,,	...	five	,,	,,	,,	,,	,,	

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

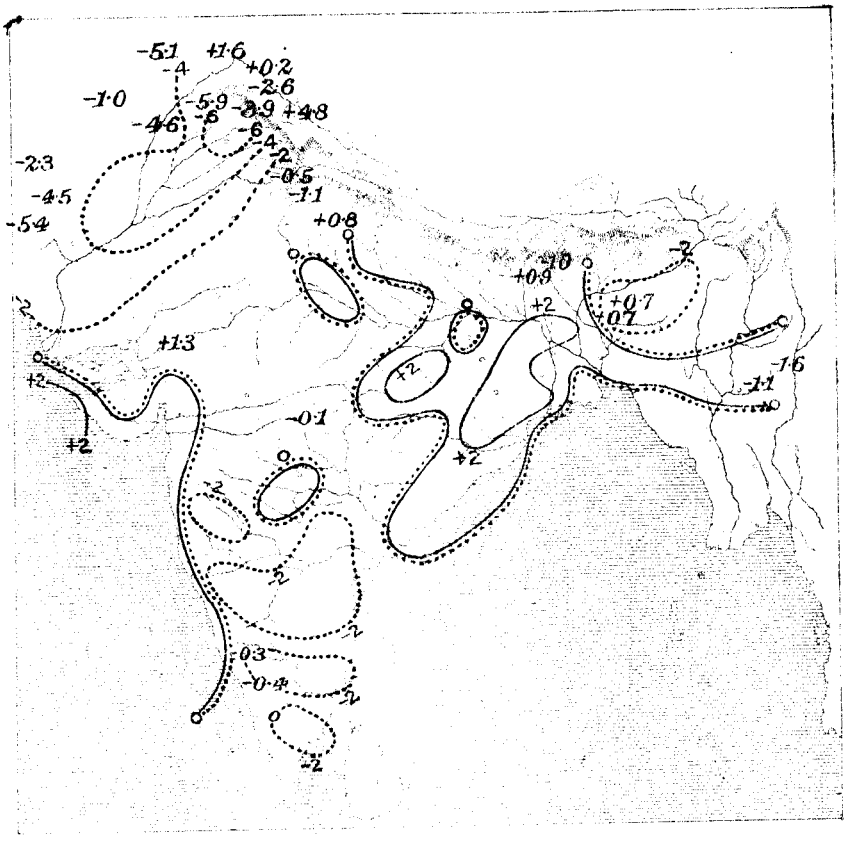


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

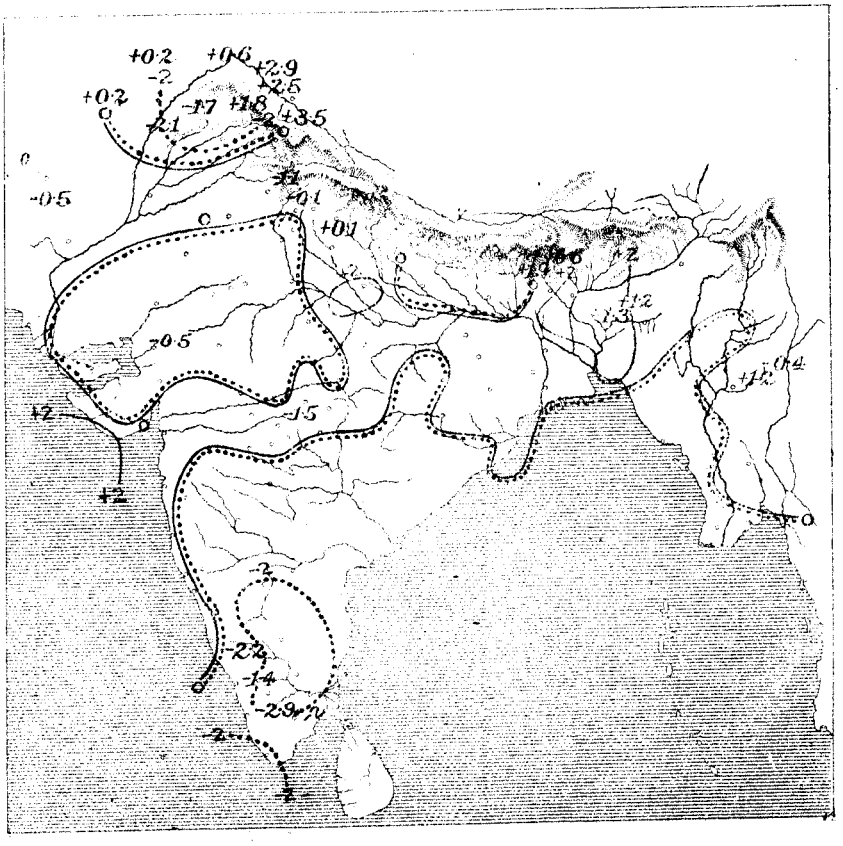


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

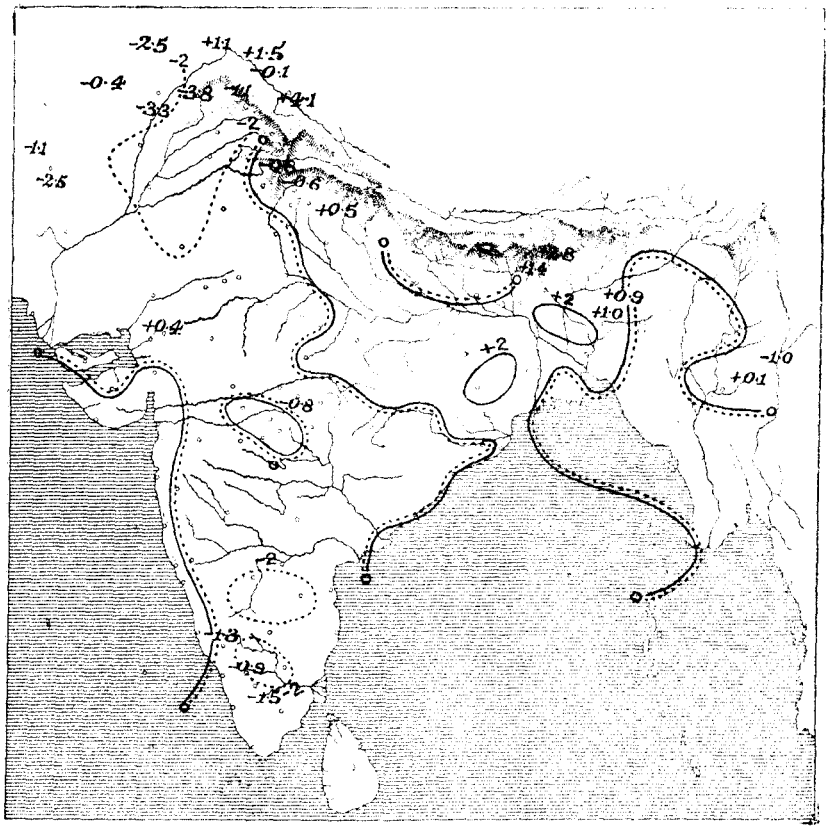


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

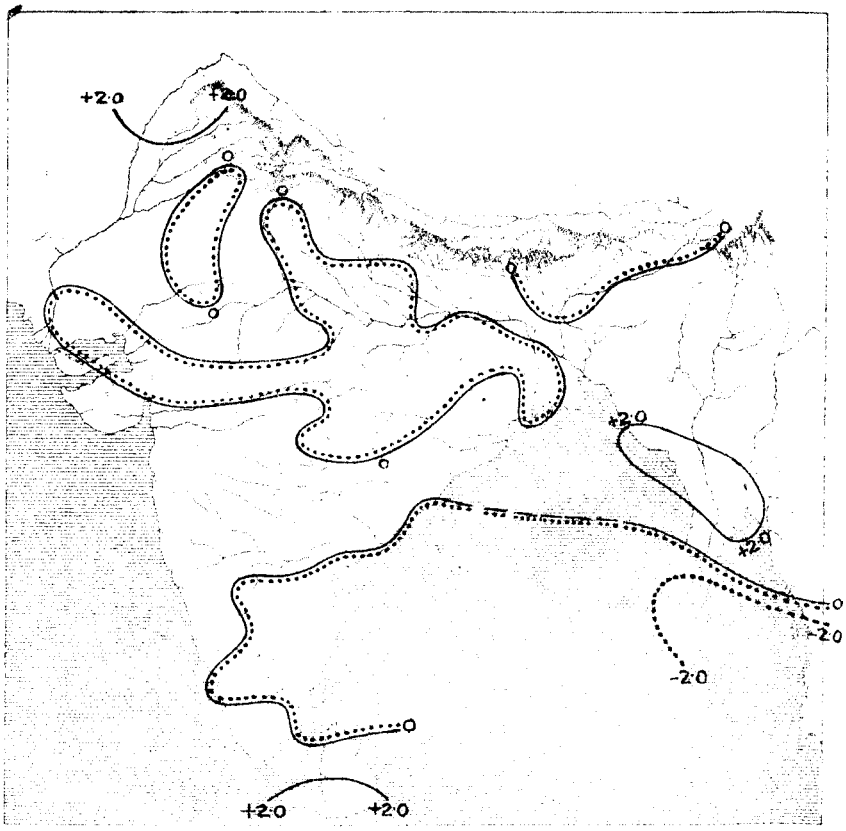
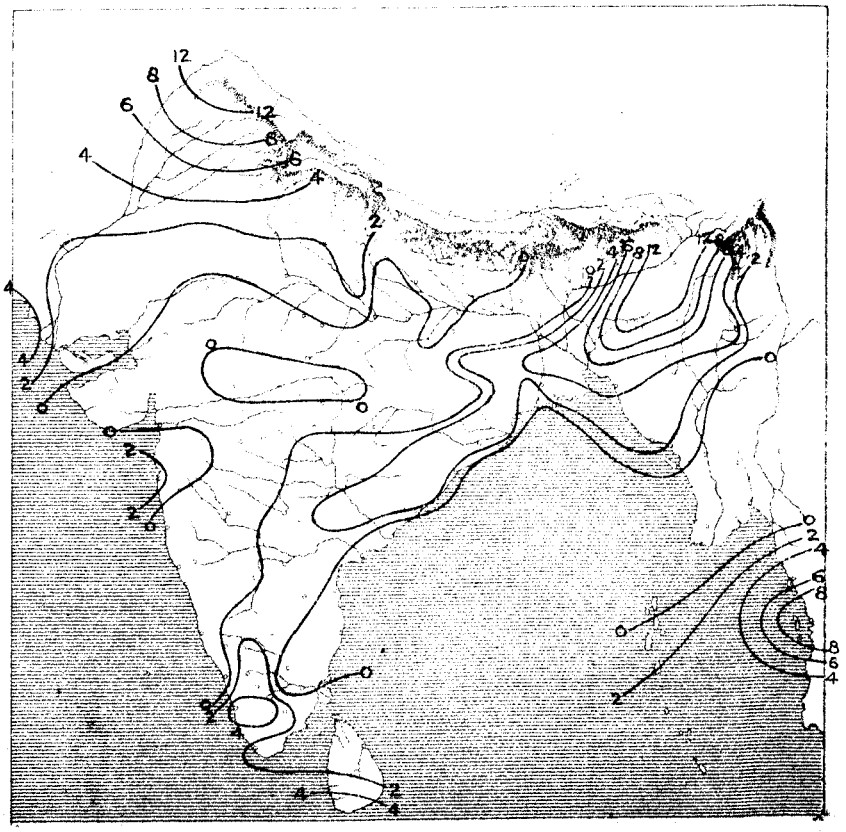
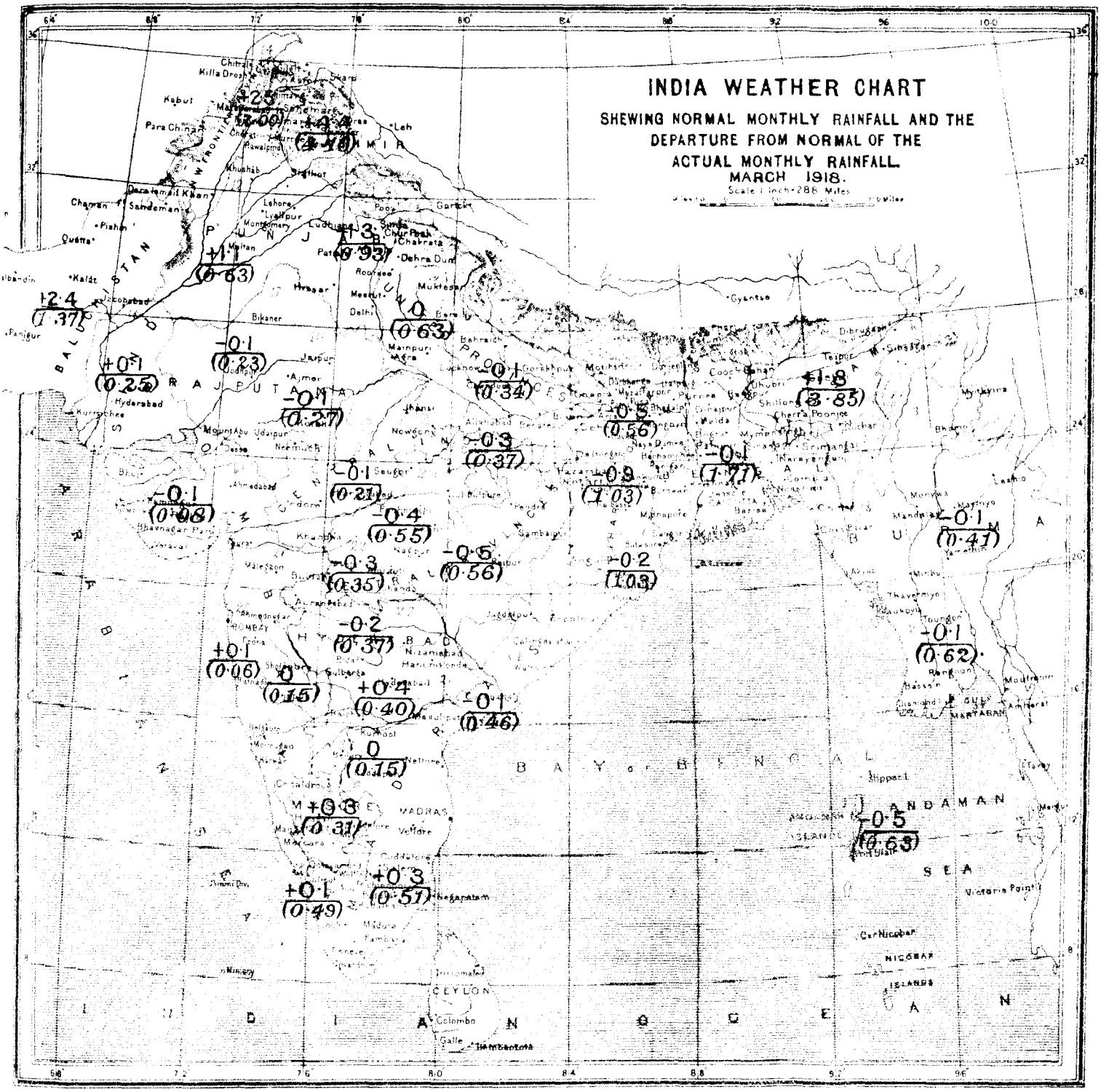


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

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THE GOVERNMENT OF INDIA.

CALCUTTA, APRIL, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of April 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. Several disturbances of the cold weather type appeared in north-west India and caused heavier rain than usual in the North-West Frontier Province, Kashmir, the Punjab and the United Provinces West. Rainfall was on the whole below normal in north-east India and much below it in the Peninsula. The month's fall over the plains of India as a whole was in defect by 16 per cent.

Cloud amount was much below the average in Assam, Central India and the Peninsula, and the air was very dry in Central India. Temperature was very low over the greater part of northern and central India during the first half of the month; maximum temperatures 20° or more below normal were recorded at several places in the Punjab, Baluchistan, and the North-West Frontier Province during the first week of the month.

The mean monthly pressure over the plains of India was 0·019" in excess.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—Observations were made on all the days during the month.

Sunspots.—26 new groups were recorded. The daily average was 5·7 and the average life of a spot was 6·4 days as against 5·0 and 5·5 days respectively in March. The distribution in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	31°—40°	Mean latitude.	Extreme latitudes.
North . .	3	6	2	...	14°·3	3° & 27°
South . .	5	3	6	1	16°·6	1° & 32°

Prominences.—80 large, 9 metallic, and 2 eruptive prominences were recorded. One of the eruptive prominences was photographed between +27° east and the equator on the 22nd. It ascended from 300″ at 7h. 41m. to 450″ at 8h. 13m. the rate of ascent corresponding to nearly 57 kilometers per second. The eruption was accompanied by violent movements in the line of sight the "C" line at one time being displaced 3 angstroms towards red.

Magnetic disturbances.—"Moderate" disturbances were registered on 13 days.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$ N; $\lambda = 77° 28' 00''$ E; $h = 2{,}343$ m. Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	G	r / To²
AN:				
AE:	9·76	17·5	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
April 10th	e P	2 20 18	...	...	...	...	...	
	e L	2 23 30	...	...	...	...	...	
	M	2 23 48	...	...	50	...	...	
	F	2 51 00	...	...	...	...	...	
„ 13th	P	...	...	...	...	...	...	
	i L	0 59 24	...	...	...	...	...	
	M	1 03 48	...	...	220	...	...	
	F	1 48 00	...	...	...	...	...	
„ 16th	e P	11 53 00	...	...	..	...	...	Widening of line.
	F	12 01 00	...	...	...	...	...	
1918.		h. m. s.						
April 21st	e P	4 48 18	...	...	...	...	...	Widening of line.
	F	4 57 12	...	...	...	...	...	
„ 21st	e P	8 54 00	...	...	...	...	...	Widening of line.
	F	8 55 00	...	...	...	...	...	
„ 21-22nd	e P	23 31 00	...	...	...	...	...	
	e L	23 46 54	...	...	...	...	...	
	M	23 50 42	...	...	60	...	...	
	F	1 23 00	...	...	...	...	...	
„ 23rd	e P	15 55 54	...	...	...	...	...	Widening of line.
	F	16 04 06	...	...	...	...	...	

S. SITARAMAYYA,
Officiating Assistant Director.

BOMBAY OBSERVATORY.

4. During the month of April, 1918, the traces showed 6 calm days, 23 days of small and one day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 2nd, 13th, 14th, 20th and 29th.

The following table represents the magnetic character of each day during the month:—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	S
2	C	10	S	18	S	26	S
3	S	11	M	19	S	27	S
4	S	12	S	20	C	28	S
5	S	13	C	21	S	29	C
6	S	14	C	22	S	30	S
7	S	15	C	23	S		
8	S	16	S	24	S		

C=calm; S=small; M=moderate; G=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the Horizontal Force and Declination for the month are as follows :—

Easterly Declination	0° 29′ 46″.
Horizontal Force	0·36885 C.G.S. unit.
Vertical Force	0·16951 C.G.S. „
Inclination	24° 40′·9.
Horizontal Force Range . . .	0·00062 C.G.S. unit.
„ „ Summed Range . .	0·00414 C.G.S. „
Declination Range	4′·8.
„ Summed Range . .	19′·7.

(Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53′ 36″$ N ; $\lambda = 72° 48′ 56″$ E ; $h = 11$ m. Subsoil *Trap.*

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	20	32		
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h. m. s.						
Apl. 10th	P	2 12 37	...	...	...	...	...	
	M	2 26 56	...	...	25	...	...	
„ 13th	P	0 57 19	...	...	...	...	...	
	M	1 8 17	...	...	180	...	...	
„ 21st	P	23 35 49	...	...	...	...	...	
	M	... .	...	...	...	...	...	Maximum not well marked.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32′$ N ; $\lambda = 88° 20′$ E ; $h = 6·4$ m. Subsoil *Alluvial.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h. m. s.						
Apl. 10th	P	2 10 42	4	...	...	...	...	
	S	2 16 18	7	...	...	...	...	
	F	2 37 48	...	...	...	...	...	
„ 13th	P	0 57 42	5	...	...	...	...	
	S	1 3 42	7	...	...	...	...	
	L	1 12 12	12	...	...	...	...	
	M	1 12 42	...	...	397	...	...	
	F	1 40 42	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ km. Subsoil *Rock*.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 kg.).

TABLE 6.

	V	To	€	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h. m. s.						
April 10th	P	2 10 30	...	...	...	...	...	
	S	2 15 12	...	...	...	...	...	
	L	2 20 00	20	...	...	...	...	
	M	2 20 36	...	71	150	...	...	
	F	3 7 36	...	...	...	...	...	
„ 13th	P	0 59 48	...	...	...	...	...	
	S	1 04 12	...	...	...	...	...	
	L	1 08 12	25	...	...	...	...	
	M	1 08 42	...	57	71	...	...	
	F	1 43 42	...	...	...	...	...	
April 21st	e	23 28 18	...	...	...	...	...	
	M	23 37 30	...	43	...	...	...	
	M	23 36 18	...	...	36	...	...	
„ 22nd	F	0 26 18	...	...	...	...	...	Occurred in Southern California?

The following table contains a list of earthquakes that were reported:—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m.	sec.			
Srinagar . .	April 14th	1 1	2	6	1	
Quetta . . .	„ 24th	9 10	5	7	3	
Bushire (Persia) .	„ 28th	11 0	30	5	1	
„ „ .	„ 28th	11 15	10	5	1	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was normal at the equatorial stations but well below it at Mauritius. Winds were weaker and somewhat more westerly than usual at Seychelles; they were about normal at Zanzibar and Mauritius. Rainfall was greatly in excess at Mauritius and in defect at Zanzibar and Seychelles, the deficiency at the latter station being as much as 70 per cent.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	—·040	—·002	+·007
Actual mean wind direction . .	S 75° E	S 19° W	N 21° W
Normal mean wind direction . .	S 71° E	N 15° W	N 8° E
Actual mean wind velocity (miles per diem).	194	134	66
Normal mean wind velocity (miles per diem).	178	125	82
Rainfall departure from normal in inches	+2·27	—2·18	—5·14

Depressions and cyclonic storms.

8. Five disturbances passed into north-west India from the west. The first one appeared as an area of low pressure in Baluchistan and Sind on the morning of the 3rd ; moving north-eastwards it developed into a fairly deep depression in the north Punjab by the 5th and filled up on the 7th. Rainfall occurred from the north-west frontier to the west of the United Provinces during this period and was very widespread in Baluchistan, the North-West Frontier Province, Kashmir and the Punjab on the 4th. The second disturbance gave some heavy cloud but hardly any rain along the north-west frontier from the 9th to the 11th. The third appeared as a shallow depression in Sind on the 16th and moving eastwards reached Chota Nagpur on the 20th by which time it had become very feebly marked on the pressure chart ; it gave very little rain in north-west India but as it moved eastwards it stimulated the inflow of moist air from the head of the Bay and caused some rain in north-east India. The fourth disturbance gave rain in the extreme north of India from the 20th to the 25th, and the fifth on the 28th and the 29th.

According to a newspaper report (furnished by a correspondent from Ghatal, Midnapur District, Bengal) a tornado passed at 4 P. M. on the 20th over the villages of Faridpore, Kalaypoda, Adampore, Joyramchuck and Panchgachia covering a track nearly half a mile wide, causing immense damage to houses and killing several people. The third western disturbance of the month lay over north-east India on that day.

Pressure.

9. Pressure was more or less in excess everywhere over the plains of India, but the excess was not appreciable in Burma, Assam and the Peninsula ; it was large over the greater part of north-west India. The mean monthly temperature was low in all the divisions and there was a fairly close correspondence between the excess of pressure and lowness of temperature in the different areas.

The excessive pressure did not reach to the level of the hill stations so that the vertical gradient was steep everywhere with the exception of south India ; it was very steep in the extreme north of the country where rainfall was considerably above the average.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·011
Assam	+·006
Bengal	+·021
Bihar and Orissa	+·017
United Provinces	+·027
Punjab	+·034
North-West Frontier Province	+·027
Sind	+·040
Rajputana	+·032
Bombay	+·016
Central India	+·022
Central Provinces	+·013
Hyderabad	+·005
Mysore	+·009
Madras	+·009

TABLE 10.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference B—A.
	"		"	"
Quetta	+·002	Jacobabad	+·050	+·048
Leh	—·014	Lahore	+·032	+·046
Murree	—·053	Peshawar	+·016	+·069
Simla	—·001	Ludhiana	+·038	+·039
Mukteswar	—·015	Bareilly	+·022	+·037
Darjiling	—·016	Dhubri	+·010	+·026
Mount Abu	0	Deesa	+·035	+·035
Pachmarhi	—·016	Khandwa	+·022	+·038
Kodaikanal	+·004	Madura	+·010	+·006

Temperature.

10. Maximum and minimum temperatures were normal in Assam, Hyderabad, Mysore and Madras and below it elsewhere, the departure of the mean temperature varying from 2½° to 5½° in the United Provinces, the Punjab, the North-West Frontier Province, Sind, Rajputana and Central India. The low day and night temperatures in northern India occurred mostly during the first half of the month; conditions were about normal during the second half.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	90·6	77·9	84·3	12·7	—0·3	—1·3	+1·0
2. Lower Burma	91·7	74·3	83·0	17·4	—1·5	—1·9	+0·4
3. Upper Burma	95·4	70·1	82·7	25·3	—1·6	—1·9	+0·3
4. Assam	85·4	67·3	76·4	18·1	—0·1	—0·4	+0·3
5. Bengal	91·3	71·8	81·5	19·4	—2·5	—2·0	—0·5
6. Orissa	97·0	75·6	86·3	21·4	—1·7	—0·9	—0·8
7. Chota Nagpur	99·0	71·0	85·1	28·0	—1·3	—1·7	+0·4
8. Bihar	95·5	70·4	83·0	25·0	—4·0	—2·0	—2·0
9. United Provinces, East	98·1	69·5	83·9	28·6	—3·1	—1·7	—1·4
10. Do. do., West	96·5	66·9	81·7	29·6	—3·8	—3·4	—0·4
11. Punjab, East and North	88·6	61·8	75·3	26·8	—6·5	—4·4	—2·1
12. Do., South-west	89·3	63·0	76·1	26·3	—6·8	—3·4	—3·4
13. Kashmir	60·3	38·3	49·3	22·0	—2·6	—2·5	—0·1
14. North-West Frontier Province	84·8	60·1	72·4	24·7	—4·6	—2·7	—1·9
15. Baluchistan	77·5	51·2	64·4	26·3	—4·1	—2·7	—1·4
16. Sind	92·8	69·6	81·2	23·2	—2·8	—2·3	—0·5
17. Rajputana, West	96·2	68·1	82·1	28·1	—4·3	—5·7	+1·4
18. Do., East	96·0	68·7	82·4	27·3	—4·1	—4·3	+0·2
19. Gujarat	95·0	69·6	82·3	25·4	—2·7	—3·0	+0·3
20. Central India, West	97·3	66·9	82·1	30·4	—2·6	—3·5	+0·9
21. Central India, East	98·1	67·9	83·1	30·1	—3·5	—3·5	0
22. Berar	102·4	74·3	88·4	28·1	—1·0	—1·5	+0·5
23. Central Provinces, West	100·5	71·2	85·9	29·3	—2·2	—2·0	—0·2
24. Do. do., East	100·7	72·4	86·5	28·3	—0·4	—1·5	+1·1
25. Konkan	88·2	75·8	82·0	12·4	—1·1	—2·1	+1·0
26. Bombay Deccan	100·4	68·7	84·5	31·7	—0·1	—2·1	+2·0
27. Hyderabad, North	102·6	71·0	86·8	31·6	+0·2	—0·8	+1·0
28. Do., South	102·4	76·5	89·5	25·9	+0·2	—0·7	+0·9
29. Mysore	93·8	68·6	81·2	25·2	—0·3	—1·0	+0·7

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
30. Malabar	90·3	78·2	84·2	12·1	—0·1	0	—0·1
31. Madras, South-east	96·3	76·3	86·3	19·9	—0·2	—0·4	+0·2
32. Do. Deccan	105·3	79·1	91·2	24·2	—1·1	+0·3	—1·4
33. Do. Coast, North	93·0	77·1	85·1	15·9	—0·6	—0·8	+0·2

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—1·6	—1·9	—1·7
Assam	—0·1	—0·4	—0·2
Bengal	—2·5	—2·0	—2·3
Bihar and Orissa	—2·5	—1·5	—2·0
United Provinces	—3·4	—2·4	—2·9
Punjab	—6·6	—4·1	—5·3
North-West Frontier Province	—4·6	—2·7	—3·6
Sind	—2·8	—2·3	—2·6
Rajputana	—4·2	—4·8	—4·5
Bombay	—1·6	—2·5	—2·1
Central India	—3·0	—3·5	—3·2
Central Provinces	—1·5	—1·7	—1·6
Hyderabad	+0·2	—0·7	—0·2
Mysore	—0·3	—1·0	—0·7
Madras	—0·4	—0·3	—0·4

Winds.

11. Wind velocity was above the average in Burma, the United Provinces, the Punjab and Madras, and below it in Assam, Bengal, the North-West Frontier Province, Sind, Bombay, Central India and Hyderabad.

The steadiness was higher than usual in the United Provinces, the Punjab, Rajputana, the Central Provinces and the Peninsula and lower in Assam, Bengal, Bihar and Orissa, the North-West Frontier Province and Sind.

The wind directions were mostly normal but there was an unusual northerly component at some of the stations in the Central Provinces.

TABLE 13.

Division.	Departure from normal of	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·5	— 3
Assam	—0·5	—10
Bengal	—0·9	—24
Bihar and Orissa	+0·2	— 7
United Provinces	+0·4	+ 5
Punjab	+0·6	+11
North-West Frontier Province	—0·7	— 8
Sind	—1·4	— 5
Rajputana	—0·1	+ 6
Bombay	—0·7	+ 9
Central India	—0·7	— 3
Central Provinces	+0·2	+ 8
Hyderabad	—0·9	+ 9
Mysore	+0·4	+19
Madras	+0·9	+15

Humidity and cloud.

12. Vapour pressure was in defect over almost the whole country, the defect being appreciable in Burma, Bengal, the United Provinces, Sind, Bombay, Central India, the Central Provinces, Hyderabad and Mysore. Relative humidity was also in defect in Bombay, Central India and the Central Provinces and in excess in the Punjab and the North-West Frontier Province. Owing to the comparatively low temperature that prevailed during the month there was no large and widespread deficiency in relative humidity corresponding to that of the vapour pressure.

Cloud amount was in excess only in Burma and Bihar and Orissa; it was normal in Bengal, the United Provinces, the Punjab, Sind and Rajputana and in defect elsewhere.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . . .	73	— 2	·727	—·057	3·9	+0·6
Assam . . .	83	— 2	·671	—·012	4·5	—1·3
Bengal . .	77	— 1	·743	—·064	4·2	0
Bihar and Orissa .	59	+ 1	·597	—·015	2·8	+0·5
United Provinces .	42	— 1	·408	—·038	1·5	—0·2
Punjab . .	55	+ 9	·414	—·003	2·6	+0·2
North-West Frontier Province.	63	+ 4	·451	—·021	2·6	—0·5
Sind . . .	55	— 1	·530	—·043	2·0	0
Rajputana . .	36	+ 1	·363	—·032	1·9	+0·1
Bombay . .	55	— 4	·555	—·095	1·5	—0·4
Central India .	37	— 9	·397	—·125	0·9	—0·9
Central Provinces .	28	— 8	·324	—·100	0·7	—1·2
Hyderabad . .	43	— 3	·514	—·074	1·3	—0·9
Mysore . .	67	— 1	·591	—·051	2·8	—0·7
Madras . .	71	— 1	·817	—·029	2·9	—1·0

Rainfall.

13. The month's fall was in excess in Bengal, Bihar, the United Provinces West, the Punjab, Kashmir, the North-West Frontier Province and Mysore, was normal in Baluchistan and was in defect everywhere else; the fall in the Punjab and Kashmir was more than double the normal amount.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0·5	2·9	0·33	1·40	— 1·07	— 76
2. Lower Burma	1·6	2·1	1·27	1·64	— 0·37	— 23
3. Upper Burma	2·6	2·3	1·10	1·24	— 0·14	— 11
4. Assam	8·5	12·1	6·22	9·43	— 3·21	— 34
5. Bengal	4·7	4·2	4·11	3·21	+ 0·90	+ 28
6. Orissa	2·2	2·8	1·26	1·54	— 0·28	— 18
7. Chota Nagpur	1·2	1·9	0·47	0·87	— 0·40	— 46
8. Bihar	2·1	1·3	1·06	0·64	+ 0·42	+ 66

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
9. United Provinces, East	0·3	0·5	0·13	0·20	— 0·07	— 35
10. Do. do., West	1·0	0·7	0·46	0·29	+ 0·17	+ 59
11. Punjab, East and North	2·9	1·1	1·57	0·53	+ 1·04	+196
12. Do., South-west	2·5	1·1	1·26	0·51	+ 0·75	+147
13. Kashmir	6·6	5·0	6·61	3·30	+ 3·31	+100
14. North-West Frontier Province	5·2	3·3	2·85	1·67	+ 1·18	+ 71
15. Baluchistan	1·3	1·5	0·71	0·73	— 0·02	— 3
16. Sind	0·1	0·3	0·05	0·11	— 0·06	— 55
17. Rajputana, West	0·1	0·6	0·03	0·17	— 0·14	— 82
18. Do., East	0·2	0·5	0·05	0·18	— 0·13	— 72
19. Gujarat	0·1	0·1	0	0·03	— 0·03	—100
20. Central India, West	0·1	0·4	0	0·19	— 0·19	—100
21. Do. do., East	0·1	0·7	0·02	0·30	— 0·28	— 93
22. Berar	0	0·7	0	0·25	— 0·25	—100
23. Central Provinces, West	0	0·8	0·02	0·33	— 0·31	— 94
24. Central Provinces, East	0·3	1·9	0·15	0·90	— 0·75	— 83
25. Konkan	0·2	0·7	0·12	0·38	— 0·26	— 68
26. Bombay Deccan	0·5	1·4	0·27	0·67	— 0·40	— 60
27. Hyderabad, North	0·7	1·3	0·17	0·53	— 0·36	— 68
28. Do., South	1·3	1·8	0·71	0·80	— 0·09	— 11
29. Mysore	3·4	2·8	1·87	1·50	+ 0·37	+ 25
30. Malabar	1·6	3·9	0·75	2·67	— 1·92	— 72
31. Madras, South-east	0·7	2·3	0·31	1·46	— 1·15	— 79
32. Do. Deccan	1·1	1·4	0·40	0·65	— 0·25	— 38
33. Do. Coast, North	1·0	1·7	0·53	0·98	— 0·45	— 46

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	1·16	1·40	−0·24	− 17
Assam	6·22	9·43	−3·21	− 34
Bengal	4·11	3·21	+0·90	+ 28
Bihar and Orissa	0·96	0·91	+0·05	+ 5
United Provinces	0·31	0·25	+0·06	+ 24
Punjab	1·49	0·53	+0·96	+ 181
North-West Frontier Province	2·85	1·67	+1·18	+ 71
Sind	0·05	0·11	−0·06	− 55
Rajputana	0·04	0·18	−0·14	− 78
Bombay	0·16	0·41	−0·25	− 61
Central India	0·01	0·23	−0·22	− 96
Central Provinces	0·07	0·56	−0·49	− 87
Hyderabad	0·51	0·66	−0·15	− 23
Mysore	1·87	1·50	+0·37	+ 25
Madras	0·43	1·33	−0·90	− 68
Mean of India	0·97	1·15	−0·18	− 16

Snowfall.

I.—AFGHANISTAN.

14. Three inches of snow fell on the 3rd and 3 feet on the 6th on the Kuh Sufaid and Hindu Kush ranges.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano Agency.*—Marwatti, Pirghal, Bosh and Dranashtar (all 11,000 feet high) had 3 inches of snow on the 5th and Jani Méla (9,000 feet) 2 inches on the same day. Snowfall so late in the season is considered abnormal.

Snow accumulations melted away by the end of the month.

(*b*) *Kohat.*—No snow fell on the Samana range.

(*c*) *Hazara.*—A report that extended to the 15th of the month gave the following amounts :—

TABLE 17.

	Actual falls, 1st to 7th.		Accumulations.	
Inner hills.	Narang	(8,000 feet) 5′ 2″	Narang	6′ 6″
	Paludran	(7,300 „) 2′ 11″	Paludran	3′ 6″
	Kagan	(6,300 „) 2′ 9″	Sundigali	0′ 6″
	Jared	(5,000 „) 0′ 11″	Thandiani	7′ 1″
	Malkandi	(4,500 „) 0′ 8″	Dungagali	4′ 0″
	Sundigali	(7,000 „) 3′ 6″	None at other places of observation.	
	Jachha	(6,500 „) 2′ 4″		
Outer hills.	Thandiani	(8,800 feet) 9′ 4″		
	Dungagali	(8,000 „) 2′ 6″		

It appears there had not been so heavy a snowfall in April during the previous ten years or more. Snow descended to an elevation of 3,000 feet above sea level in both the inner and outer hills.

III.—KASHMIR.

(*a*) *Skardu.*—No snow fell at the station but the following falls occurred on the surrounding mountains and hills :—

TABLE 18.

Date.	Depth.	
	Higher mountains.	Lower hills.
5th	Nearly half a foot	About 2 inches.
6th	.....	Less than ½ an inch.
22nd	Less than ½ a foot	Nearly 1 inch.
23rd	less than 1 inch	less than 1 inch.
24th	Ditto	Ditto.
29th	Ditto	Ditto.

The accumulations at the end of the month were about 1 foot on the higher mountains and nearly 3 inches on the lower hills.

The actual falls as well as the accumulations are considered to have been heavier than in the preceding few years.

(*b*) *Dras.*—Snow fell on 15 days at the station, the total fall being over 5 feet.

(*c*) *Srinagar.*—There were snowfalls accompanied by rain at Srinagar on the 4th and 5th; snowfall there so late in the season is abnormal.

(*d*) *Kargil.*—On the Archulla, Nakthulla, Samenulla Barulla, Narainulla and Pazgolla mountains which are roughly 15,000 feet above sea level and within 12 miles from the station the undermentioned falls of snow occurred.

TABLE 19.

Name of peak.	Depth of actual snowfall.	
	Feet.	Inches.
Archulla	2	6
Nakthulla	1	9
Samenulla	1	9
Barulla	1	9
Narainulla	1	9
Pazgolla	1	9

The accumulations at the end of the month were as follows :—

TABLE 20.

Name of peak.	Depth of accumulation at the end of the month.
	Reported.
	Feet.
Archulla	4
Samenulla	2
Nakthulla	2
Barulla	1
Narainulla	½
Pazgolla	½

Both the actual falls and the accumulations are said to be above the average.

IV.—PUNJAB.

Kilba (Simla Hills).—2″ fell on the 1st and 2″ on the 5th; snowline came down to 8,000 feet on the latter date.

The snow accumulations at the end of the month were reported to be as follows :—

TABLE 21.

Name of pass.	Depth.	
	Feet.	
Rupan	2	All passes remained impassable during the whole month.
Brua	2	
Shatul	2	
Harang	1	

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Snow fell about a foot and a half deep on the peaks to a height of 7,000 feet in the north of the district in the beginning of the month.

(*b*) *Almora.*—

Actual falls during the month.

TABLE 22.

Locality.	Depth.	Distance below the lines of perpetual snows.
Malla Johar	7½ feet	
Malla Danpur	6 ,,	3 or 4 miles.
Malla Durma	4½ ,,	9 miles.
Chaudas	4½ ,,	1 mile.

TABLE 23.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Binkaru pass	8	17¾
Millandhura	1	4½
Bagdwar	¼	...
Nuwe pass	15	26¼
Pindari peak	6	2½
Kaphini ,,	6	2½
Kuntela ,,	6	2½

EASTERN HIMALAYAS.

Sikkim.—There was no snow at or in the vicinity of Gangtok but about 2¾ feet fell at Yatung.

Accumulation at the end of the month in the Northeast Frontier District.

TABLE 24.

Maya pass	(8,500 feet)	About 6″.
Painlon pass	(9,000 ,,)	Deep snow. Impassable.
Phankan ,,	(9,000 ,,)	No snow.
Glee Dakhru	(12,000 feet, at the head of the Delei)	Deep snow. Impassable.

SUMMARY.

15. Snowfall was above the average on the western Himalayas as well as in Afghanistan and the North-West Frontier Province.

S. SITARAMAYYA.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in April, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 11

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three preceding columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·835	29·701	·134	29·767	+·016	29·735	94·4	74·0	20·4	101·2	66·8	34·4	86·6	92·1	83·5	−1·5	70·1	74·9	75·3	73·4
	VI.—Punjab.																					
11	Lahore .	702	29·123	29·039	·084	29·075	+·040	29·734	88·9	61·5	27·4	107·1	50·9	56·2	79·8	88·1	74·8	−6·1	56·9	65·0	67·6	63·2
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·420	28·334	·106	28·381	+·031	29·724	96·3	66·9	29·4	107·5	52·2	55·3	88·3	91·7	81·5	−4·8	55·1	63·2	65·8	60·7
	X.—Bombay.																					
25	Bombay . .	37	29·877	29·766	·111	29·832	+·020	29·810	88·0	75·9	12·1	99·7	72·3	18·4	82·2	84·2	80·9	−1·2	70·6	74·3	75·3	73·4
	XIV.—Mysore.																					
39	Bangalore .	3,021	26·961	26·831	·130	26·902	+·024	26·686	92·3	68·7	24·1	97·3	64·8	32·5	82·9	89·8	79·5	−0·4	63·1	69·3	67·2	66·5
	XV.—Madras.																					
31	Pudukkottai .	318	29·665	29·442	·163	29·523		29·764	99·7	76·8	22·9	102·1	73·1	29·0	88·8	96·7	88·3			74·5	74·3	
	Madras . .	22	29·881	29·758	·123	29·826	+·001	29·779	93·3	76·2	17·1	99·2	68·5	30·7	89·7	88·1	85·8	−0·3	75·8	79·2	80·0	78·3
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·626	25·549	·077	25·585	+·036	25·539	81·7	52·5	29·2	87·8	45·1	42·7	72·0	77·5	67·7	+0·6	49·7	59·5	60·2	56·5
	Kodaikanal . .	7,688	22·870	22·812	·058	22·841		22·776	72·4	52·0	20·4	76·4	47·7	28·7	67·2	64·4	62·2		46·4	53·5	55·7	51·9
	Extra India.																					
	Seychelles . .	15	29·857	29·863	·094	29·913	+·007	29·851	85·3	78·9	6·4	87·0	77·0	10·0	83·2	84·3	80·8	+1·4	72·3	76·9	77·1	75·4
	Mauritius . .	181				29·773	−·051	29·840	80·8	70·7	10·1	84·9	66·8	19·1			75·2	−0·2				

N.B.—Elevations in italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,100 feet.

A.

stations in India, etc., in April, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction,										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from								Mean wind direction.	Normal mean wind direction of month.								
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·689	·718	·662	·722	—·075	81	58	46	67	— 3	3·1	2·3	2·7	+0·1	0	0	1	1	7	17	17	8	9	S 36° W	S 30° W	55	69	117	123	4·73	4·23	Calcutta	5
																															VI.—Punjab.	
·438	·427	·407	·431	+·036	75	44	33	52	+11	2·1	2·0	2·1	—0·8	8	3	7	2	6	1	2	0	31	N 28° W	N 15° W	43	28	52	56	1·61	0·60	Lahore	11
																															IX.—Rajputana.	
·296	·272	·212	·273	—·060	45	20	13	28	— 2	1·9	3·3	2·6	+0·1	0	10	4	2	1	1	5	18	19	N 54° W	N 57° W	60	50	87	88	0·03	0·03	Jaipur	18
																															X.—Bombay.	
·679	·713	·758	·752	—·089	76	67	65	72	— 5	1·5	1·1	1·3	—0·3	0	2	0	2	2	3	3	24	24	N 73° W	N 60° W	70	56	153	185	0	0	Bombay	25
																															XIV.—Mysore.	
·513	·556	·404	·511	—·044	73	50	30	53	— 2	1·5	4·4	2·9		2	6	3	12	7	4	8	14	4	S 43 W	S 27° W	8	38	113	84	1·21	0·49	Bangalore	29
																															XV.—Madras.	
	·657	·546				49	31			3·4	2·0	2·7		12	0	2	3	16	19	5	1	2	S 17° E		55		101		0	0	Pudukkottai	31
·888	·853	·915	·907	+·007	98	61	69	79	+ 1	2·4	0·7	1·5	—2·0	0	0	0	0	26	25	9	0	0	S 14° E	S 36° E	85	83	136	133	0	0	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·330	·370	·329	·336	—·024	82	47	36	55	— 3	3·6	4·8	4·2	+0·2	0	0	0	33	0	0	0	27	0	E	N 87° W	20	42	20	26	2·16	1·00	Katmandu.	
·260	·265	·352	·292		67	41	59	56		1·1	5·4	3·3		1	9	11	15	19	1	0	0	4	N 81° E		57		191		2·12	1·76	Kodaikanal.	
																															Extra India.	
·706	·840	·837	·819	—·044	71	74	71	75	— 5	4·7	5·5	5·1	0†	15	8	15	2	5	3	0	1	1	N 21° W	N 8° E	35	9	66	82	2·21	1·12	Seychelles.	
			·921	0				79	0			7·0	+1·9										S 75° E	S 71° E			194	178	7·30	3·87	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in April, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·011	93·2	−1·6	72·6	−1·9	82·9	−1·7	20·6	+0·5	− 3	73	− 2	·727	−·057	3·9	+0·6	1·16	1·40	−0·24
Assam	+·006	85·4	−0·1	57·3	−0·4	76·4	−0·2	18·1	−0·5	−10	83	− 2	·671	−·012	4·5	−1·3	6·22	9·43	−3·21
Bengal	+·021	91·3	−2·5	71·8	−2·0	81·5	−2·3	19·4	−0·9	−24	77	− 1	·713	−·064	4·2	0	4·11	3·21	+0·90
Bihar and Orissa	+·017	96·7	−2·5	72·1	−1·5	84·4	−2·0	24·7	+0·2	− 7	59	+ 1	·597	−·015	2·8	+0·5	0·96	0·91	+0·05
United Provinces of Agra and Oudh	+·027	97·4	−3·4	68·3	−2·4	82·9	−2·9	29·1	+0·4	+ 5	42	− 1	·408	−·038	1·5	−0·2	0·31	0·25	+0·06
Punjab	+·034	88·9	−6·6	62·2	−4·1	75·5	−5·3	26·6	+0·6	+11	55	+ 9	·414	−·003	2·6	+0·2	1·49	0·53	+0·96
North-West Frontier Province	+·027	84·8	−4·6	60·1	−2·7	72·4	−3·6	24·7	−0·7	− 8	63	+ 4	·451	−·021	2·6	−0·5	2·85	1·67	+1·18
Sind	+·040	92·8	−2·3	69·6	−2·3	81·2	−2·6	23·2	−1·4	− 5	55	− 1	·530	−·043	2·0	0	0·05	0·11	−0·06
Rajputana	+·032	96·1	−4·2	68·4	−4·8	82·3	−4·5	27·7	−0·1	+ 6	36	+ 1	·363	−·032	1·9	+0·1	0·01	0·18	−0·44
Bombay	+·016	95·3	−1·6	76·6	−2·5	82·9	−2·1	24·7	−0·7	+ 9	55	− 4	·555	−·095	1·5	−0·4	0·16	0·41	−0·25
Central India	+·022	97·7	−3·0	67·4	−3·5	82·6	−3·2	30·3	−0·7	− 3	37	− 9	·397	−·125	0·9	−0·9	0·01	0·23	−0·22
Central Provinces	+·013	101·0	−1·5	72·3	−1·7	86·6	−1·6	28·7	+0·2	+ 8	28	− 8	·324	−·100	0·7	−1·2	0·07	0·56	−0·49
Hyderabad	+·005	102·5	+0·2	74·1	−0·7	88·3	−0·2	28·4	−0·9	+ 9	43	− 3	·514	−·074	1·3	−0·9	0·51	0·66	−0·15
Mysore	+·009	93·8	−0·3	68·6	−1·0	81·2	−0·7	25·2	+0·4	+19	67	− 1	·591	−·051	2·8	−0·7	1·87	1·50	+0·37
Madras	+·009	95·3	−0·4	77·2	−0·3	86·3	−0·4	18·1	+0·9	+15	71	− 1	·817	−·029	2·9	−1·0	0·43	1·33	−0·90

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point*	147	29·772		29·849	29·832	20th	29·718	28th	80·9	78·3	87·0		75·2		81·1		11·8	90·8	1st	70·2	1st
	Mergui	66	29·861	+·007	29·860	29·923	19th	29·783	28th	78·7	76·9	90·5	−1·4	73·2	−1·0	81·8	−1·2	17·3	94·8	19th	70·5	1st
	Tavoy	19	29·905	−·012?	29·857	29·967	19th	29·831	28th	79·1	75·0	92·7	−1·1	70·8	−3·7	81·7	−2·4	21·9	94·7	24th	64·8	6th
	Moulmein	94	29·839	+·016	29·871	29·918	19th	29·747	28th	80·5	75·3	91·7	−2·8?	74·7	−1·9	83·2	−2·3?	17·0	95·0	1st	67·7	18th
	Rangoon	18	29·903	+·016	29·859	29·969	19th	29·813	28th	79·4	74·7	96·5	−1·7	74·1	−2·2	85·3	−1·9	22·4	99·5	11th	69·0	4th
	Bassein	27	29·898	+·019	29·861	29·979	19th	29·798	28th	81·8	75·3	94·7	−1·4	74·3	−1·6	84·5	−1·5	20·4	98·2	25th	67·9	1st
	Diamond Island	41	29·874	+·001	29·850	29·944	19th	29·776	28th	82·4	75·7	86·8	−1·6	78·8	0	82·8	−0·8	8·0	89·6	26th	74·0	14th
	Tounzoo	164	29·734	+·015	29·840	29·803	19th	29·645	28th	82·3	76·1	99·4	−1·1	75·3	−0·8	87·3	−0·9	24·1	102·6	30th	70·1	17th
	Kyaukpyu	18	29·806		29·844	29·955	19th	29·799	28th	80·5	75·2	88·1		74·7		81·4		13·4	92·0	8th	68·3	3rd
	Akyab	20	29·873	−·003	29·831	29·932	25th	29·791	28th	79·8	74·4	89·2	−2·4	71·0	−3·9	80·5	−3·1	17·3	91·6	10th	65·0	3rd
3	Minbu	*165*	29·708	+·013	29·816	29·819	21st	29·601	28th	82·1	71·1	100·8	−2·2	75·2	−1·3	88·3	−1·7	24·9	104·7	15th	63·4	3rd
—	Yamethin	644	29·241	+·026	29·330	29·351	18th	29·139	28th	81·9	73·9	99·5	−1·8	75·7	−0·6	87·6	−1·2	23·8	104·3	30th	68·6	18th
	Mandalay	250	29·626	+·075	29·823	29·748	16th	29·514	7th	84·1	70·7	101·3	−0·9	75·1	−2·7	88·2	−1·8	26·2	105·4	30th	68·4	18th
	Monywa	*280*	29·596	+·011	29·826	29·727	16th	29·486	7th	79·7	69·2	96·5	−1·5	72·7	−2·5	86·1	−2·0	26·8	106·2	30th	66·9	9th
	Lashio	*2,820*	27·093	−·006	27·041	27·174	16th	26·997	7th	68·4	62·2	86·0	−3·2	61·3	−1·4	73·9	−2·3	25·3	97·1	25th & 30th.	55·0	18th
	Bhamo	*361*	29·491	+·010	29·812	29·648	16th	29·374	7th	72·3	67·6	91·1	−1·7	63·8	−3·2	77·5	−2·5	27·3	97·4	25th	59·4	11th
	Myitkyina	458	29·392	−·003	29·822	29·513	16th	29·259	7th	70·8	65·3	88·7	0	65·9	−1·3	77·3	−0·7	22·8	97·4	30th	60·6	1st
	II.—Assam.																					
4	Dibrugarh	352	29·519	−·006	29·541	29·620	19th	29·312	7th	71·1	67·1	81·8	+2·3	65·9	+0·6	73·8	+1·5	15·9	91·5	25th	60·1	16th
	Sibsagar	333	29·542	−·003	29·543	29·651	19th	29·345	7th	70·2	67·4	81·5	−0·2	65·3	−0·9	73·4	−0·5	16·2	91·4	25th	60·9	14th
	Tezpur	252	29·621	+·011	29·637	29·734	19th	29·419	7th	71·6	67·5	84·4	+0·6	67·1	−0·2	75·8	+0·2	17·3	95·0	25th	63·2	5th, 9th & 17th.
	Gauhati*	196	29·681	+·016	29·837	29·785	26th	29·473	7th	73·1	69·1	86·8	+0·1	66·7	−0·6	76·8	−0·3	20·1	93·0	25th	55·6	10th
	Dhubri	115	29·732	+·010	29·803	29·861	26th	29·535	7th	74·1	69·1	86·6	−1·6	68·9	−1·1	77·8	−1·3	17·7	93·3	15th	63·8	10th
	Silchar	106	29·790	+·010	29·818	29·886	17th	29·667	7th	72·9	70·5	86·2	−1·9	68·5	−0·5	77·4	−1·2	17·7	91·5	25th	63·6	4th & 18th
	Srimangal	66	29·811		29·827	29·914	25th	29·682	7th	75·7	73·0	99·8	0	68·7	−0·1	79·7	−0·1	22·1	95·7	16th	59·0	18th
	III.—Bengal.																					
5	Cox's Bazar	36	29·853		29·834	29·917	25th	29·753	7th	79·2	75·5	87·5		71·7		79·6		15·8	90·1	15th & 16th.	64·5	21st
	Chittagong	87	29·803	+·013	29·833	29·885	11th	29·683	7th	77·9	74·7	87·3	−1·6	71·6	−1·8	79·5	−1·7	15·7	89·8	30th	63·1	1st
	Noakhali	43	29·841	+·025	29·831	29·930	25th	29·716	7th	80·1	76·2	88·0	−0·9	74·2	+0·5	81·1	−0·2	13·8	93·6	13th	66·0	18th
	Barisal	12	29·856	+·024	29·817	29·959	25th	29·727	7th	80·1	76·1	89·6	−2·2	73·0	−1·9	81·3	−2·1	16·6	95·8	14th	66·5	18th
	Narayanganj	26	29·837	+·019	29·814	29·945	25th	29·713	7th	78·5	74·2	90·5	−2·1	72·7	−1·6	81·6	−1·9	17·8	97·5	14th	65·2	18th
	Mymensingh	63	29·802	+·020	29·817	29·911	25th	29·666	7th	75·5	70·5	88·6	−1·1	69·8	−2·1	79·7	−1·6	19·8	97·0	15th	62·9	9th & 11th.
	Bogra	75	29·772	+·025	29·800	29·913	25th	29·634	7th	76·5	70·0	92·8	−2·9	69·1	−2·7	80·9	−2·8	23·7	100·2	14th & 16th.	59·8	9th & 10th.
	Dinajpur	123	29·710	+·020	29·790	29·806	18th	29·543	7th	74·6	67·3	90·1	−4·5	68·1	−1·8	79·1	−3·1	22·0	97·3	1st	60·0	10th & 16th
	Jalpaiguri	283	29·559	+·011	29·866	29·661	18th	29·384	7th	71·8	67·6	88·4	−1·1	65·9	−2·3	77·2	−1·7	22·5	92·9	1st	59·1	9th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 29 days.

B.

stations in India, etc., in April, 1918.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
2	0	15	4	2	0	2	0	4	N 48° E		5·1			56		93		·977		5·4		12		10·25	2·51	+ 7·74	12·34	6·19	+ 6·15	2·31	Victoria Point.
10	0	2	8	8	1	1	0	0	S 68° E	N 8° W	4·2*	1·7	+2·5	49	− 8	91	+ 9	·900	+·012	1·3	−2·2	9	+ 2·6	6·29	5·47*	+ 0·82	11·39	11·85	+ 2·54	1·45	Mergui.
15	6	8	1	0	0	0	0	0	N 30° E	N 2° W	1·9	1·2	+0·7	46	+12	81	− 3	·807	−·068	3·6	+1·7	1	− 3·5	2·05	2·97	− 0·92	6·48	5·43	+ 1·05	1·95	Tavoy.
1	0	5	2	4	6	5	2	5	S 8° W	S 34° E	9·0	2·8	+6·2	7	−38	78	0	803	−·053	4·7	+0·9	7	+ 2·8	5·20	2·94	+ 2·26	6·90	4·02	+ 2·88	3·20	Moulmein.
0	1	1	0	0	5	9	9	5	S 72° W	S 61° W	4·8	4·1	+0·7	62	− 8	79	− 1	·798	−·045	6·2	+3·1	2	+ 0·1	2·47	1·50	+ 0·97	3·50	2·68	+ 0·82	1·83	Rangoon.
6	1	1	0	0	0	1	9	12	N 62° W	N 55° W	4·6	4·5	+0·1	62	− 5	73	− 6	·795	−·076	4·9	+1·9	0	− 1·6	0	1·19	− 1·19	2·09	2·18	− 0·09	0	Bassein.
0	1	1	3	0	0	0	15	11	N 65° W	N 47° W	7·8	6·2	+1·6	72	+ 9	62	−13	·796	−·062	3·0	−0·6	0	− 1·0	0	0·96	− 0·96	3·40	2·38	+ 1·02	0	Diamond Island.
1	0	0	2	16	9	2	0	0	S 26° W	S 28° E	3·1	3·4	−0·3	82	+ 8	74	+ 1	·813	−·041	6·5	+3·5	2	− 0·6	0·41	1·97	− 0·56	0·67	3·16	− 2·49	0·21	Toungoo.
28	0	0	1	0	0	0	0	1	N 23° E		1·2			2		77		·805		4·5		2		0·84	1·72	− 0·88	1·41	2·82	− 1·41	0·42	Kyaukpyu.
9	1	8	6	1	3	1	0	1	N 74° E	N 48° E	3·4	2·8	+0·6	37	−10	77	− 4	·779	−·103	5·4	+1·2	3	+ 1·2	4·16	1·99	+ 2·27	4·99	3·41	+ 1·58	3·62	Akyab.
2	2	0	2	20	1	0	0	3	S 52° E	S 45° E	3·3	7·1	−3·8	56	+ 8	56	− 6	·608	−·070	3·0	+1·2	1	− 0·2	0·81	0·87	− 0·06	0·96	1·85	− 0·89	0·75	Minbu.
										S 28° E		5·0		53	−18	63	− 2	·693	−·046	2·1	+0·6	0	− 2·3	0·07	1·50	− 1·43	0·30	2·73	− 2·43	0·03	Yamethin.
9	1	0	0	7	11	2	0	0	S 12° E	S 3° W	3·8	4·6	−0·8	53	+ 6	50	− 6	·572	−·104	3·4	+1·5	3	+ 0·6	1·16	1·24	− 0·08	1·25	1·93	− 0·68	0·61	Mandalay.
6	6	3	1	7	4	0	1	2	N 84° E		2·5			20		58	− 1	·572	−·079	2·2	+0·3	3	+ 1·1	0·62	0·90	− 0·28	0·85	1·76	− 0·91	0·23	Monywa.
16	1	7	2	4	0	0	0	2	N 49° E		2·4			30		69	0	·478	−·035	1·7	−3·2	4	− 0·4	1·08	2·10	− 1·02	2·24	4·27	− 2·03	0·45	Lashio.
26	2	2	0	0	0	0	0	0	N 23° E	N 14° W	1·1	3·1	−2·0	10	−23	78	+ 2	·610	−·019	3·6	−0·3	6	+ 1·3	2·47	1·85	+ 0·62	4·68	4·18	+ 0·50	0·58	Bhamo.
18	2	7	2	0	0	0	1	0	N 11° E		3·1			30		74	− 2	·551	−·061	4·3	−0·6	8	+ 2·9	2·51	2·00	+ 0·51	4·04	4·72	− 0·68	0·38	Myitkyina.
																															II.—Assam.
15	0	0	7	2	0	0	0	0	N 77° E		1·3			43		81	− 8	·615	−·018	3·5	− 3·0	2	− 6·7	5·10	11·07	− 5·97	12·80	19·59	− 6·79	1·47	Dibrugarh.
11	3	10	2	1	2	0	1	0	N 50° E	N 48° E	1·7	2·4	−0·7	37	−16	86	− 5	·640	−·031	7·5	+0·3	4	−10·6	3·09	10·34	− 7·25	12·47	18·95	− 6·48	1·17	Sibsagar.
5	0	12	8	0	1	2	1	1	N 64° E		2·7			46		82	− 2	·639	−·001	3·8	−1·8	6	− 6·7	3·82	6·93	− 3·11	7·35	10·96	− 3·61	1·12	Tezpur.
19	1	2	2	2	0	0	1	2	N 45° E		1·4†			16		81	− 1	·662	+·005	4·6	−1·3	8	− 3·6	2·80	7·05	− 4·25	5·25	11·27	− 6·02	0·57	Gauhati.
1	0	5	13	1	1	8	0	1	S 74° E	N 72° E	6·0	6·4	−0·4	37	−26	77	− 2	·644	−·035	3·9	−1·0	9	+ 1·5	9·67	4·90	+ 4·77	9·85	7·95	+ 1·90	2·73	Dhubri.
16	0	6	7	0	0	1	0	0	N 72° E	N 82° E	2·2	2·5	−0·3	37	+12	88	+ 5	·717	−·004	4·8	−0·9	16	+ 1·6	9·99	14·73	− 4·74	22·21	26·20	− 3·99	1·92	Silchar.
																87	+ 1	·782	0	3·3		9	− 3·3	7·90	11·59	− 3·69	12·83	18·10	− 5·27	2·62	Srimangal.
																															III.—Bengal.
17	0	0	1	5	5	2	0	0	S 18° E		3·4			33		83		·837		4·3		4		5·67	4·44	+ 1·23	9·02	7·35	+ 1·67	2·55	Cox's Bazar.
11	0	0	5	8	5	0	1	0	S 42° E	S 47° E	2·9	5·0	−2·1	49	− 8	86	+ 6	·830	+·003	5·0	+0·5	4	− 1·2	4·10	5·08	− 0·98	8·92	9·89	− 0·97	1·88	Chittagong.
1	0	0	1	14	6	6	2	0	S 14° E		3·7			70		83	+ 2	·851	−·007	4·3	+0·5	5	− 0·6	5·37	6·05	− 0·68	9·57	10·58	− 1·01	2·10	Nbakhali.
10	1	2	0	3	9	4	1	0	S 1° W	S 8° W	2·8	4·2	−1·4	38	−17	83	+ 1	·840	−·054	5·2	+0·6	8	+ 3·0	9·32	4·33	+ 4·99	12·84	8·61	+ 4·23	2·60	Barisal.
4	0	0	6	5	5	5	3	2	S 3° E	S 10° E	2·9	5·3	−2·4	37	−20	81	− 2	·783	−·052	4·1	1·9	5	− 1·2	6·46	5·22	+ 1·24	9·18	9·79	− 0·61	2·50	Narayanganj.
17	0	0	7	6	0	0	0	0	S 70° E	S 68° E	2·3	3·1	−0·8	40	−30	77	− 4	·669	−·096	5·0	−0·8	6	− 0·9	4·99	5·90	− 0·91	5·81	9·58	− 3·77	1·50	Mymensingh.
11	1	1	6	0	5	4	2	0	S 17° E	S 63° E	1·7	3·4	−1·7	20	−39	73	− 4	·653	−·091	5·3	+1·7	4	+ 0·6	1·68	2·30	− 0·62	1·95	4·92	− 2·97	0·57	Bogra.
2	1	4	11	4	2	1	5	0	S 81° E	N 86° E	4·0	4·1	−0·1	37	−11	68	− 4	·584	−·081	3·9	−0·3	4	+ 0·9	3·62	2·11	+ 1·51	3·72	3·96	− 0·24	1·81	Dinajpur.
23	1	0	3	2	0	0	1	0	S 63° E	N 88° E	2·0			11	−56	80	+ 5	·622	−·037	3·3	+0·2	8	+ 2·7	4·70	3·71	+0·99	4·72	6·40	− 1·68	1·66	Jalpaiguri.

* Mean o 23 days.
† „ „ 28 „

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Sangor Island	10	29·847	+·028	29·8·2	29·929	10th & 25th	29·734	7th	82·5	77·8	89·4	−1·1	76·5	−3·2	82·9	−2·1	12·9	96·8	12th	67·0	19th
	Midnapore	149	29·669	+·002	29·767	29·776	10th	29·553	6th	82·8	71·8	95·8	−2·2	75·2	−0·8	87·0	−1·5	23·6	105·8	28th	68 9	4th
	Calcutta	21	29·823	+·020	29·791	29·919	25th	29·713	6th	80·0	75·2	94·4	−1·2	74·0	−1·7	84·2	−1·5	20·4	101·2	7th	66·8	19th
	Jessore	30	29·832	+·037	29·809	29 911	25th	29·713	6th	78·4	73·5	91·8	−4·9	72·0	−2·9	81·9	−3·9	19·8	99·2	15th.	63·3	9th
	Burdwan	99	29·727	+·014	29·774	29·828	26th	29·610	7th	78·1	71·8	94·4	−5·8	71·9	−3·5	83·2	−4·7	22·5	101·0	14th	66·0	10th
	Berhampore	67	29·772	+·030	29·792	29·882	25th	29·651	6th	78·4	70·1	95·2	−3·3	71 8	−2·5	84·0	−2·9	24·4	109·6	12th	63·7	9th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·789	+·015	29·784	29·886	10th	29·676	6th	81·3	74·9	94·3	−2·6	74·9	−1·0	84·6	−1·8	19·4	106·8	28th	67·0	9th
	Hukitala (False Point)	29	29·824	+·007	29·794	29·911	10th	29·721	7th													
	Cuttack	80	29·775	+·021	29·795	29·847	11th	29·690	7th	81·4	77·2	98·9	−2·7	77·7	−0·1	83·3	−1·4	21·2	104·5	13th & 14th.	70·4	3rd
	Puri	24	29·841	+·022	29·809	29·929	10th	29·735	7th	80·6	78·1	87·6	−0·3	79·1	+0·5	83·3	+0·1	8·5	90·0	26th	73·9	3rd
	Angul	455	29·380	+·010	29·781	29·493	10th	29·278	7th	81·1	73·2	101·7	+0·7?	73·3	−0·3	87·7	+0·2?	27·9	106·8	14th & 20th.	66·6	9th
	Sambalpur	486	29·345	+·003	29·777	29·461	10th	29·261	28th	84·0	71·2	102·3	−1·3	72·5	−2·9	87·4	−2·1	29·8	106·0	20th	63·9	9th
7	Chaibasa	733	29·081	+·007	29·767	29·188	10th	28·981	6th	80·0	69·6	100·6	−1·8	73·2	−1·0	86·9	−1·4	27·4	106·5	29th	64·7	9th
	Ranchi	2,128	27·713	+·011	29·752	27·801	10th	27·625	28th	77·5	64·4	93·7	−2·6	69·5	−2·4	81·7	−2·5	24·2	100·3	30th	62·3	4th
	Purulia	816	29·014	+·032	29·780	29·113	10th	28·850	7th	80·7	68·1	100·3	−1·5	73·0	−1·4	86·7	−1·5	27·3	105·3	28th	64·9	9th
	Daltonganj	730	29·087	+·015	29·777	29·230	10th	28 962	28th	76·6	66·2	101·4	+0·5	68·3	−2·0	84·9	−0·7	33·1	109·2	30th	58·7	16th
8	Purnea	121	29·695	+·010	29·776	29·798	25th	29·526	7th	75·1	66·7	92·0	−4·8	67·2	−2·6	79·6	−3 7	24·8	97·6	15th	58·3	10th
	Monghyr	155	29·645		29·754	29·739	2nd	29·532	7th	75·1	67·1	94·1		70·0		82·1		24·1	101·6	26th	63·7	3rd
	Darbhanga	165	29·645	+·014	29·769	29·758	30th	29·501	7th	76·0	66·5	92·2	−3·9	67·5	−3·7	80·0	−3·8	24·7	97 0	30th	60·2	8th
	Pusa	188	29·625		29·770	29·759	2nd	29·502	7th	76·7	67·5	95·7		67·5		81·6		28·2	100·5	26th	59·5	8th
	Patna	183	29·637	+·032	29·776	29·741	2nd	29·537	28th	80·0	67·3	94·9	−4·9	70·3	−1·1	83·6	−3·0	22·6	101·9	26th	65·2	8th
	Buxar	239	29·580	+·017	29·757	29·655	10th	29·456	28th	77·7	65·2	98·4	−1·7?	72·0	−1·6	85·2	−1·7?	26·4	107·3	29th	65·1	3rd
	Gaya	372	29·441	+·000	29·770	29·567	10th	29·334	28th	81·9	66·3	99·7	−3·0	74·5	- 0·6	87·1	−1·8	25·2	106·6	29th	67·5	8th
	Naya Dumka	489	29·336	+·028	29·778	29·426	25th	29·233	7th	81·2	68·3	96·6	−3·3	72·3	−1·8	84·5	−2·5	24·3	101·6	18th	65·0	9th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·541	+·022	29·759	29·622	10th	29·441	28th	77·9	67·4	96·1	−3·8	69·7	−2·2	82·9	−3·0	26·4	103·3	29th	59·0	16th
	Benares	267	29·546	+·026	29·767	29·682	10th	29·426	28th	81·7	66·9	98·8	−3·7	69·0	−2·6	83·9	−3·1	29·8	107·0	30th	61·3	8th
	Allahabad	309	29·532	+·042	29·788	29·673	10th	29·405	28th	80·9	64·4	100·0	−3·2	70·3	−1·9	85·2	−2·5	29·7	109·3	30th	61·9	8th & 15th
	Cawnpore	416	29·404	+·039	29·779	29·557	10th	29·284	28th	79·6	63·4	98·6	−2·3	70·3	−1·7	84·5	−2·0	28·3	108·0	30th	62·1	8th
	Lucknow	368	29·444	+·033	29·770	29·585	10th	29·320	28th	82·5	64·9	98·9	−2·9	69·6	−1·1	84·2	−2·0	29·3	107·9	29th	59·5	16th
	Bahraich	407	29·384	+·020	29·754	29·484	10th	29·282	28th	77·9	65·5	96·5	−2·6	68·4	−0·9	82·4	−1·7	28·1	104·2	29th	55·3	9th
10	Jhansi	821	29·011	+·014	29·789	29·183	10th	28·900	18th & 28th.	82·3	63·3	99·8	−3·5	70·3	−6·6?	85·0	−5·1?	29·5	109·9	29th	61·8	2nd & 8th.
	Agra	555	29·261	+·022	29·779	29·424	10th	29·134	28th	80·1	63·6	96·9	−4·3	69·2	−4·2	83·1	−4·3	27·7	108·6	30th	58·2	8th
	Mainpuri	516	29·301	+·033	29·778	29·461	10th	29·179	28th	79·1	62·4	99·2	−1·9	67·2	−2·4	83·2	−2·1	32·0	111·1	30th	59·8	9th
	Bareilly	568	29·221	+·022	29·757	29·347	10th	29·099	28th	76·3	64·0	95·3	−2·2	66·1	−2·7	80·7	−2·9	29·2	106·1	30th	56·0	16th
	Roorkee	899	28·893	+·025	29·772	29·040	10th	28·763	28th	72·6	60·1	91·1	−5·7	61·5	−4·2	76·3	−4·9	29·6	104·0	30th	52·8	8th & 10th.

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in April, 1918—*continued.*

Wind direction.										Wind velocity.			Wind steadiness.	Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Number of winds from																											
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
21	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	54	55
																															III.—Bengal—*concld.*
1	2	1	1	0	12	12	1	0	S 21° W	S 18° W	10·9	8·5	+2·4	66	−11	80	− 1	·888	−·037	4·9	−0·6	2	0	0·70	1·19	−0·49	1·09	4·39	−3·30	0·48	Saugor Island.
16	1	1	1	4	6	0	0	1	S 34° E		4·6			23		58	−11	·613	−·119	3·0	+1·3	3	−0·5	1·26	1·95	−0·69	1·63	5·43	−3·80	0·95	Midnapore.
0	0	1	1	5	7	12	2	2	S 21° W	S 25° W	4·8	5·1	−0·3	62	− 8	79	+ 1	·815	−·039	3·5	−0·1	2	−1·2	4·73	1·80	+2·93	5·55	4·92	+0·63	4·23	Calcutta.
27	0	0	0	2	0	0	1	0	S 18° E	S 1° E	1·3	3·0	−1·7	5	−47	79	− 2	·775	−·095	2·8	−1·9	7	+2·1	6·23	3·50	+2·73	9·72	7·57	+2·15	1·42	Jessore.
9	1	1	1	6	6	3	1	2	S 9° E	S 27° W	1·8	3·5	−1·7	30	−30	73	+ 1	·705	−·067	4·1	+0·5	4	+0·4	2·99	2·11	+0·88	5·22	5·47	−0·25	1·27	Burdwan.
0	1	1	6	4	7	8	3	0	S 4° E	S 2° E	3·1	3·5	−0·4	46	−11	66	− 8	·631	−·127	4·5	+0·6	2	−0·7	0·63	1·45	−0·82	0·79	3·96	−3·17	0·43	Berhampore.
																															IV.—Bihar and Orissa.
0	1	1	1	0	14	12	0	1	S 20° W	S 29° W	4·7	6·3	−1·6	69	+14	74	− 1	·785	−·050	4·2	+1·6	4	+0·2	1·51	2·07	−0·56	2·89	6·38	−3·49	0·69	Balasore.
1	1	0	0	0	12	15	1	0	S 29° W		1·2			79	+ 2					5·7	+0·3	0	−1·6	0·02	0·81	−0·79	2·48	4·05	−1·57	0·02	Hukitala (False Point).
11	0	0	0	2	4	9	4	0	S 37° W	S 39° W	2·9	3·7	−0·8	49	−11	83	+ 9	·881	+·045	5·3	+1·7	2	+0·2	1·47	1·16	+0·31	2·46	3·50	−1·04	1·27	Cuttack.
0	2	0	0	1	7	19	1	0	S 36° W		13·7			77		88	+ 3	·925	+·013	5·6	+2·3	1	−0·3	0·16	0·66	−0·50	0·31	2·55	−2·24	0·16	Puri.
2	2	8	2	8	2	0	1	5	N 72° E		5·1			30		68	+ 1	·721	+·012	4·6	+2·3	3	−0·6	1·27	1·58	−0·31	2·38	4·94	−2·56	0·68	Angul.
0	6	11	5	0	0	4	2	2	N 28° E	S 87° E	3·1	2·8	+0·3	46	+26	50	0	·582	−·014	1·3	−0·9	0	−1·6	0·12	0·65	−0·53	0·46	2·94	−2·48	0·06	Sambalpur.
12	1	1	0	0	7	7	2	0	S 31° W	S 62° W	2·0†	1·3	+0·7	49	−19	58	− 3	·594	−·051	1·7	0	1	−1·9	0·22	1·37	−1·15	0·31	4·89	−4·58	0·15	Chaibasa
3	0	2	3	4	6	2	1	9	S 32° W	S 51° W	4·7	5·4	−0·7	10	−38	48	+ 6	·454	+·021	1·4	−0·5	3	+0·2	0·73	0·97	−0·24	1·65	4·93	−3·28	0·27	Ranchi.
8	0	2	3	4	1	2	8	2	S 63° W		2·7			13		51	− 3	·535	−·023	3·0	+0·8	2	−1·3	0·31	1·10	−0·79	1·25	4·70	−3·45	0·19	Purulia.
15	1	1	1	3	2	2	4	1	S 34° W		3·7‡			13		57	+11	·524	+·054	0·5	−1·2	0	−1·1	0·03	0·45	−0·42	0·47	3·40	−2·93	0·03	Daltonganj.
0	1	7	7	5	0	5	4	1	S 87° E	N 68° E	4·5	3·4	+1·1	24	−36	64	− 4	·558	−·090	4·6	+2·2?	4	+2·2	3·08	1·20	+1·88	3·22	2·96	+0·26	1·45	Purnea.
0	0	1	9	9	1	5	5	0	S 35° E		7·1			40		56		·534		2·0		3		1·36	0·81	+0·52	1·53	3·14	−1·61	1·01	Monghyr.
14	3	1	13	0	0	0	2	0	N 86° E	S 67° E	5·0	4·2	+0·8	37	−16	59	− 6	·541	−·090	2·5	+1·1	5	+3·5	1·67	0·71	+0·96	1·80	2·37	−0·57	0·73	Darbhanga.
0	0	4	11	2	1	5	5	2	S 68° E		5·3			17		55		·540		1·4		2		0·69	0·93	−0·24	0·79	2·65	−1·86	0·31	Pusa.
2	0	0	17	0	0	1	9	1	E	S 81° E	5·3	3·6	+1·7	22	+ 2	51	0	·517	−·027	1·0	−0·5	1	+0·3	0·22	0·32	−0·10	0·68	2·20	−1·52	0·22	Patna.
1	0	2	9	2	3	5	7	1	S 9° E		5·5			20		48	+ 6	·467	+·020	2·1	+0·5	0	−0·4	0·04	0·17	−0·13	0·24	2·17	−1·93	0·03	Buxar.
7	0	4	2	2	2	11	0	2	S 24° W	S 34° W	3·5	3·5	0	27	− 6	42	− 9	·454	−·139?	0·8	−1·2	1	+0·4	0·17	0·22	−0·05	0·24	2·37	−2·13	0·17	Gaya.
13	0	1	2	4	4	2	1	3	S 10° E		2·7			17		52	0	·541	−·036	2·9	+1·1	3	+0·9	1·55	0·94	+0·61	1·67	3·33	−1·66	0·81	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
2	0	0	17	0	0	0	11	0	E	N 57° E	3·8*	2·6	+1·2	20	+ 9	56	+ 3	·539	−·009	0·7	−1·1	1	+0·2	0·30	0·42	−0·12	0·43	2·30	−1·87	0·30	Gorakhpur.
2	0	3	4	3	1	8	4	5	S 58° W	S 53° W	3·4	2·6	+0·8	20	− 2	43	− 4	·468	−·033	1·4	−0·2	0	−0·3	0·04	0·18	−0·14	0·19	2·13	−1·94	0·04	Benares.
8	0	2	4	0	2	2	8	4	N 83° W	N 86° W	3·6	3·9	−0·3	23	+ 1	37	+ 1	·392	−·017	1·3	−0·6	0	−0·5	0·03	0·16	−0·13	0·42	2·04	−1·62	0·03	Allahabad.
3	3	0	2	4	3	1	3	11	N 57° W	S 79° W	2·7	3·0	−0·3	27	+ 8	39	− 1	·376	−·058	0·4	−0·5	0	−0·5	0·01	0·22	−0·21	0·65	1·98	−1·33	0·01	Cawnpore.
12	0	0	7	1	0	1	7	2	W	N 81° W	1·7	2·9	−1·2	5	−15	35	− 4	·395	−·024	1·6	−0·3	1	+0·5	0·10	0·26	−0·18	1·02	2·41	−1·39	0·10	Lucknow.
7	4	0	5	8	0	0	2	4	N 78° E	N 55° E	2·9	3·0	−0·1	20	+14	50	− 1	·473	−·065	1·3	−0·2	0	−0·7	0·05	0·34	−0·29	0·05	3·23	−3·18	0·05	Bahraich.
2	2	0	2	1	1	12	4	6	S 74° W	S 87° W	4·0	2·6	+1·4	49	+19	31	− 4	·331	−·105	0·7	−0·3	0	−0·6	0	0·16	−0·16	0·27	1·82	−1·55	0	Jhansi.
1	3	2	2	3	2	6	7	4	S 83° W	S 89° W	4·3	3·7	+0·6	30	− 7	36	0	·369	−·023	1·5	0	0	−0·6	0	0·23	−0·23	1·22	1·91	−0·69	0	Agra.
5	1	2	3	3	1	0	6	9	N 46° W	S 74° W	2·3	1·8	+0·5	27	+13	35	− 6	·348	−·056	2·2	0	0	−0·8	0·05	0·39	−0·34	0·76	2·49	−1·73	0·05	Mainpuri.
5	1	2	5	3	1	0	9	4	N 57° W	N 20° W	3·3	2·7	+0·6	10	+ 2	50	+ 3	·442	−·009	3·3	+1·4	0	−0·7	0	0·31	−0·31	0·57	3·37	−2·80	0	Bareilly.
17	0	0	2	1	0	0	0	10	N 35° W	S 60° E	3·4	2·4	+1·0	23	+16	45	+ 3	·354	−·020	1·6	−0·1	2	+0·9	0·97	0·47	+0·50	2·75	5·16	−2·41	0·73	Rurrie

*Mean of 26 days. † Mean of 21 days. ‡ Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	29·102	+·037	29·796	29·271	10th	28·951	28th	74·0	60·2	92·8	−5·8	68·8	−4·2	80·8	−5·0	24·0	106·4	30th	58·6	7th
	Hissar	725	29·099	+·045	29·797	29·398	10th	28·945	28th	75·9	61·7	93·9	−5·5	61·7	−6·1	77·8	−5·8	32·2	108·4	30th	47·4	7th
	Patiala	*879*	28·971	+·007?	29·768	29·142	10th	28·811	28th	73·8	65·3	89·3	−4·9	63·5	−3·1	76·4	−4·0	25·8	105·2	30th	53·0	7th
	Ambala	892	28·903	+·025	29·775	29·062	10th	28·742	28th	73·4	60·2	92·0	−3·4	62·8	−2·7	77·4	−3·1	29·2	106·9	30th	53·3	9th
	Ludhiana	812	28·995	+·038	29·793	29·170	10th	28·820	28th	70·3	60·4	88·5	−7·5	63·6	−3·2	76·2	−5·3	24·9	106·1	30th	53·6	8th
	Lahore	702	29·104	+·032	29·794	29·295	10th	28·922	28th	70·9	62·0	88·1	−8·4	61·5	−3·0	74·8	−5·7	26·6	107·1	30th	50·9	9th
	Sialkot	830	28·975	+·030	29·799	29·147	10th	28·787	28th	68·7	61·4	85·3	−9·7	58·4	−7·5	71·4	−8·6	25·9	100·8	30th	46·7	9th
	Rawalpindi	1,674	28·165	+·031	29·853	28·323	10th	27·917	5th	67·2	58·7	80·2	−6·7	54·2	−5·2	67·2	−5·8	26·0	98·1	29th	41·4	8th
12	Khushab	612	29·211	+·033	29·805	29·413	10th	29·003	28th	74·7	61·6	88·0	−5·4	63·4	−3·6	75·7	−4·5	24·6	106·2	29th	50·2	7th
	Lyallpur	605	29·208		29·795	29·410	10th	29·002	28th	71·8	62·0	89·0		60·0		74·5		29.0	105·8	29th	49·0	8th
	Montgomery	558	29·255	+·033	29·795	29·457	10th	29·050	28th	72·4	61·6	90·1	−7·1	62·9	−4·0	75·5	−5·5	27·2	107·2	29th	52·2	6th
	Multan	426	29·400	+·031	29·800	29·598	10th	29·191	28th	72·6	63·5	90·0	−7·9	65·8	−2·6	77·9	−5·3	24·2	107·8	29th	51·7	8th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·745	+·016	29·861	28·910	10th	28·509	5th	68·1	60·2	81·8	−3·7	57·7	−2·6	69·7	−3·1	24·1	100·1	29th	41·4	8th
	D. I. Khan	590	29·267	+·038	29·843	29·449	10th	29·036	28th	71·3	63·1	87·8	−5·5	62·4	−2·8	75·1	−4·1	25·4	110·2	28th	51·3	7th
	VIII.—Sind.																					
16	Jacobabad	186	29·653	+·050	29·801	29·829	10th	29·490	16th	79·5	64·7	97·6	−2·0	68·0	−1·7	82·8	−1·9	29·6	114·5	30th	52·2	6th
	Hyderabad	96	29·747	+·028	29·796	29·886	10th	29·573	29th	79·3	66·7	98·6	−3·4	68·9	−3·2	83·8	−3·3	29·7	110·6	29th & 30th.	51·9	7th
	Karachi	13	29·878	+·042	29·842	30·017	10th	29·711	29th	76·5	70·6	82·2	−3·1	72·0	−2·0	77·1	−2·5	10·2	92·7	27th	63·0	7th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·064	+·051	29·808	29·245	10th	28·922	16th	76·5	63·7	95·5	−4·7	67·1	−7·8	81·3	−6·3	28·4	109·0	29th	47·9	7th
	Jodhpur	780	29·076	+·035	29·821	29·215	10th	28·938	16th	77·5	64·0	96·9	−3·8	69·0	−3·6	82·9	−3·7	27·9	106·5	28th	49·2	7.h
18	Jaipur	1,131	28·123	+·026	29·805	28·572	10th	28·314	16th	79·7	60·8	95·9	−4·3	66·9	−3·7	81·4	−4·0	29·0	107·5	30th	52·2	7th
	Ajmer	1,611	28·255	+·020	29·811	28·399	10th	28·130	16th	78·4	61·7	93·5	−4·9	66·5	−5·3	80·0	−5·1	27·0	103·4	30th	53·0	8th
	Kotah	832	29·012	+·028	29·792	29·173	10th	28·883	16th	85·7	63·8	98·7	−3·2	72·7	−3·8	85·7	−3·5	26·0	110·6	30th	60·8	7th
	X.—Bombay.																					
19	Deesa	466	29·419	+·035	29·842	29·537	11th	29·309	16th	80·0	65·4	101·1	−2·7	68·0	−3·5	81·6	−3·1	33·1	110·9	28th	57·5	8th
	Bhuj	334	29·558	+·036	29·845	29·667	11th	29·434	29th	79·7	68·1	96·2	−4·2	68·2	−3·3	82·2	−3·7	28·0	107·8	28th	56·7	8th
	Jamnagar	61	29·839	+·016	29·846	29·937	10th	29·731	29th	78·7	71·3	92·4	−2·9	67·8	−2·8	80·1	−2·9	24·6	102·9	27th & 28th.	59·1	8th
	Dwarka	37	29·879	+·019	29·862	29·984	11th	29·768	16th	78·1	72·4	83·6	−1·2	75·2	−0·8	79·4	−1·0	8·4	90·6	9th	69·7	9th
	Rajkot	429	29·461	+·015	29·842	29·575	11th	29·362	29th	78·2	67·5	98·2	−4·0	65·3	−3·8	81·8	−3·9	32·9	108·1	27th	54·5	8th
	Veraval	*18*	29·894	+·026	29·855	29·985	11th	29·795	29th	76·1	69·6	84·2	−2·2	70·0	−2·3	77·0	−2·3	14·2	96·1	12th	60·6	8th
	Bhavnagar Para	55	29·840	+·819	29·841	29·940	10th	29·749	29th	80·0	70·4	100·0	−1·9	70·2	−4·4	85·1	−3·1	29·8	106·8	29th	58·2	8th
	Surat	39	29·871	+·022	29·853	29·964	11th	29·778	28th	81·3	71·3	97·3	−2·5	71·5	−1·6	84·4	−2·1	25·8	106·9	26th	61·3	8th
	Ahmadabad	163	29·731	+·026	29·845	29·838	10th & 11th.	29·622	28th	80·6	67·2	101·9	−2·7	70·5	−4·4	86·2	−3·5	31·4	110·4	28th	61·9	7th
25	Bombay	37	29·861	+·016	29·858	29·953	6th	29·793	28th	79·2	72·4	87·9	−0·7	75·5	−1·6	81·9	−1·1	12·0	90·7	26th	72·3	2nd & 4th.
	Ratnagiri	207	29·893	+·004	29·839	29·748	6th	29·629	28th	81·6	72·6	87·0	−2·7	75·0	−2·1	81·0	−2·4	12·0	90·9	10th	70·7	3rd
	Marmagao	*60*	29·848	+·003	29·842	29·903	11th	29·779	28th	82·0	76·2	88·5	−0·9	76·9	−2·3	82·7	−1·6	11·6	91·7	26th	72·4	4th
	Karwar	44	29·877	+·019	29·855	29·934	12th & 13th.	29·787	28th	79·1	74·3	89·4	−0·1	75·3	−2·2	82·4	−1·1	14·1	92·0	27th	69·0	4th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in April, 1918—*continued.*

Wind Direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															VI.—Punjab.
3	1	1	3	3	1	0	10	8	N 67° W	N 77° W	4·5	2·8	+1·7	37	0	12	+ 3	·343	−·037	1·7	−0·3	1	+0·2	0·22	0·42	−0·20	1·20	3·26	−2·06	0·13	Delhi.
2	7	1	3	4	1	2	7	3	N 41° W	N 28° W	5·0	3·9	+1·1	23	+21	42	0	·360	−·046	2·1	−0·1	1	+0·3	0·25	0·34	−0·09	1·24	2·19	−0·95	0·11	Hissar.
2	8	2	3	7	0	0	2	6	N 18° E		5·1			30		64	+17	·525	+·080	2·7	+0·5	4	+2·9	1·62	0·48	+1·14	3·94	4·89	−0·95	1·10	Patiala.
2	14	0	4	5	0	0	0	5	N 16° E	N 18° W	5·0	2·3	+2·7	49	+40	45	− 6?	·351	−·089	2·4	+0·5	3	+1·3	1·84	0·50	+1·34	4·08	5·56	−1·48	1·36	Ambala.
19	2	4	1	1		0	0	2	N 35° E	N 27° E	1·9	1·8	+0·1	20	+13	55	+ 9	·399	−·019	1·7	−0·7	4	+2·5	2·77	0·80	+1·97	5 93	5·77	+0·16	1·63	Ludhiana.
6	5	4	3	2	1	1	2	6	N 2° E	N 31° E	2·3	2·3	0	30	+10	60	+10	·445	+·013	2·6	0	5	+3·5	1·61	0·52	+1·09	4·25	3·85	+0·40	0·60	Lahore.
4	7	5	4	2	0	0	4	4	N 10° E	N 20° E	2·5	2·0	+0·5	40	+ 7	66	+15	·454	+·018	2·3	+0·3	5	+3·2	2·67	0·92	+1·75	9·43	7·01	+2·42	1·35	Sialkot.
13	0	3	1	0	0	4	7	2	N 81° W	N 30° W	2·7	2·3	+0·4	27	− 2	61	+ 5	·396	−·012	4·1	+0·7	6	+2·2	5·75	1·90	+3·85	19·66	10·17	+9·49	1·88	Rawalpindi.
8	1	7	6	2	4	2	0	0	S 85° E	N 37° E	4·6	4·9	−0·3	37	0	47	+ 4	·386	−·007	3·4	+1·2	3	+0·9	1·08	1·05	+0·03	4·20	4·45	−0·25	0·50	Khushab.
9	2	7	4	3	0	1	0	9	N 21° E		2·6			37		58		·430		3·5		2	+0·7	0·60	0·64	−0·04	1·52	2·83	−1·31	0·37	Lyallpur.
4	4	8	1	3	4	1	2	3	N 39° E	S 83° E	4·5	4·6	−0·1	23	− 3	54	+17	·405	+·038	1·4	−0·8	2	+1·2	1·02	0·31	+0·71	2·30	2·27	+0·03	0·85	Montgomery.
13	10	5	0	2	0	0	0	0	N 22° E	N 51° E	1·1	1·6	−0·5	43	+20	60	+13	·471	+·028	2·9	+1·1	2	+1·3	1·33	0·23	+1·10	3·05	1·70	+1·35	1·05	Multan.
																															VII.—North-West Frontier Province.
24	3	0	0	0	1	0	0	2	N 23° W	S 54° W	1·4	2·9	−1·5	10	0	63	+ 2	·432	−·020	3·8	+0·1	4	+0·2	2·65	1·90	+0·75	8·52	7·62	+0·90	1·04	Peshawar.
21	2	3	0	0	0	1	0	3	N 8° W	N 5° E	1·8	1·8	0	17	−16	62	+ 6	·469	−·021	1·4	−1·1	4	+2·4	1·10	0·77	+0·63	3·51	3·28	+0·23	0·78	D. I. Khan.
																															VIII.—Sind.
8	0	5	1	11	0	1	0	4	S 76° E	N 88° E	2 0	3·1	−1·1	30	+ 3	42	+ 1	·423	−·022	2·1	+0·1	1	+0·5	0·52	0·15	+0·37	1·14	1·16	−0·02	0·50	Jacobabad.
3	4	3	0	0	2	11	6	1	S 77° W	S 48° W	4·5	7·9	−3·4	40	−17	49	+ 2	·489	−·015	0·6	−0·9	0	−0·1	0	0·01	−0·01	0·28	0·89	−0·61	0	Hyderabad.
3	2	1	1	0	0	6	13	4	N 86° W	N 89° W	10·0	9·6	+0·4	59	− 2	73	− 6	·677	−·091	3·2	+0·8	0	−0·2	0	0·18	−0·18	1·54	1·62	−0·08	0	Karachi.
																															IX.—Rajputana.
2	1	2	7	2	5	8	2	1	S 10° E	S 51° W	4·8	4 3	+0·5	30	+ 8	46	+ 8	·439	+·020	1·5	−0·5	0	−0·5	0·03	0·16	−0·13	0·33	1·31	−0·98	0·03	Bikaner.
6	1	8	1	1	4	6	2	1	S 15° E		2 9			5		44	+15?	·431	+·124?	3·0	+1·0	0	−0·5	0	0·12	−0·12	0·10	0·70	−0·60	0	Jodhpur.
6	5	7	1	0	0	0	2	9	N 9° W	N 31° W	3·9	3·7	+0·2	53	+19	30	− 3	·294	−·070	1·9	−0·4	0	−0·6	0·03	0·17	−0·14	0·34	1·56	−1·22	0·03	Jaipur.
20	0	1	0	0	0	4	4	1	S 78° W	W	3·2	4·2	−1·0	23	− 8	37	− 2	·348	− 068	1·4	−0·5	0	−0·5	0	0·17	−0·17	0·25	1·34	−1·09	0	Ajmer.
11	1	2	1	2	0	2	5	6	N 61° W		2·0			27		25	0	·301	−·009	1·9	+0·7	0	−0·8	0	0·33	−0·33	0·10	1·38	−1·28	0	Kotah.
																															X.—Bombay.
2	2	4	1	2	1	6	4	8	N 66° W	N 88° W	6·1	6·6	−0·5	33	+ 3	43	+ 2	·441	−·016	1·5	+0·2	0	−0·1	0	0·03	−0·03	0	0·44	−0·44	0	Deesa.
2	3	0	0	0	0	0	24	1	N 82° W	N 75° W	5·7	8·5	−2·8	82	+ 5	53	− 6	·535	−·101	1·3	0	0	−0·1	0	0·08	−0·08	0·15	0·47	−0·32	0	Bhuj.
2	0	0	0	0	0	1	13	11	S 88° W		7·3			60		68	0	·672	−·036	0·6	−0·5	0	0	0	0·05	−0·05	0	0·45	−0·45	0	Jamnagar.
0	5	0	0	0	0	4	12	9	N 68° W		10·5			76		75	− 5	·725	−·097	2·2	+0·1	0	0	0	0·07	−0·07	0·01	0·82	−0·81	0	Dwarka.
0	2	1	0	0	0	4	15	8	N 77° W	N 66° W	7·9	7·6	+0·3	76	+ 3	56	− 8	·529	−·128	2·6	+1·4	0	−0·1	0	0·03	−0·03	0·01	0·30	−0·29	0	Rajkot.
2	10	0	0	0	2	0	3	13	N 35° W	N 47° W	8·6	6·1	+2·5	69	+ 6	71	− 3	·657	−·072	1·2	−1·1	0	0	0	0	0	0	0 24	−0·24	0	Veraval.
2	5	0	0	0	0	1	4	18	N 40° W	S 66° W	5·8	7·7	−1·9	90	+23	60	+ 4	·824	+·014?	1·5	0	0	−0·2	0	0·10	−0·10	0	0·44	−0·44	0	Bhavnagar Para.
7	7	3	1	0	4	4	1	3	N 33° W	S 61° W	3·2	5·4	−2·2	17	−23	59	− 5	·640	−·084	1·2	−0·3	0	−0·1	0	0·01	−0·01	0	0·23	−0·23	0	Surat.
5	1	4	1	0	0	1	4	14	N 40° W	N 45° W	3·7	3·4	+0·3	56	+15	47	0	·497	−·042	0·7	−0·9	0	−0·1	0	0·04	−0·04	0	0·28	−0·28	0	Ahmadabad.
0	8	4	4	3	3	1	2	5	N 18° E	N 33° E	6·4	7·7	−1·3	30	+20	74	− 1	·754	−·063	2·5	−0·6	0	−0·1	0	0·05	−0·05	1·46	0·27	+1·19	0	Bombay.
0	10	0	0	1	4	8	1	6	N 69° W	N 81° W	7·8	6·1	+1·7	37	+17	63	− 7	·685	−·102	1·5	−1·0	0	−0·3	0	0·09	−0·09	0·01	0·34	−0·33	0	Ratnagiri.
5	3	4	1	2	1	1	2	11	N 27° W	N 5° W	6·3	6·2	−0·1	37	+33	75	0	·829	−·037	4·0	+0·3	0	−0·9	0·01	0·74	−0·73	0·01	0·99	−0·98	0·01	Marmagao.
24	1	0	0	0	0	1	0	1	N 19° W	N 9° W	3·3	3·5	−0·2	13	−30	79	+ 1	·784	−·037	2·8	0	0	− 1·9	0·04	0·51	−0·47	0·04	0·82	−0·78	0·04	Karwar.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
26	Malegaon	1,430	28·461	+·021	29·818	28·547	10th & 11th.	28·370	28th	83·8	62·9	103·2	0	68·3	−3·0	85·7	−1·5	34·9	108·5	29th	58·5	3rd
	Ahmadnagar	2,154	27·755	+·004	29·791	27·823	10th	27·680	28th	82·4	61·2	100·0	+0·3	67·1	−2·6	83·5	−1·1	32·9	105·4	29th	57·7	3rd
	Poona	1,846	28·056	+·003	29·830	28·110	11th	27·981	28th	77·5	62·3	99·2	−2·2	64·5	−4·7?	81·8	−3·5?	34·7	104·6	28th	56·3	2nd
	Sholapur	1,590	28·280	−·004	29·780	28·340	11th	28·207	28th	83·6	63·0	103·0	−1·4	74·1	−1·2	88·6	−1·3	28·9	107·8	25th	67·4	3 d
	Bijapur	*1,948*	27·951	+·013	29·794	28·012	10th	27·876	28th	82·5	65·4	100·8	+0·1	73·4	−1·1	87·1	−0·5	27·4	104·7	25th	65·1	4th
	Belgaum	2,562	27·381	+·012	29·840	27·444	11th	27·311	28th	74·4	63·3	96·4	+0·5	64·7	−2·4	80·5	−0·9	31·7	100·6	22nd	60·3	5th
	XI.—Central India.																					
20	Neemuch	1,626	28·260	+·030	29·818	28·394	10th	28·149	16th	80·7	60·4	96·2	−3·6	67·1	−3·9	81·7	−3·7	29·1	104·9	29th	53·8	7th
	Indore	1,823	28·063	+·020	29·804	28·165	10th	27·983	16th	82·5	68·9	98·4	−1·6	66·7	−3·1	82·6	−2·3	31·7	106·7	30th	55·3	8th
21	Nowgong	754	29·073	+·020	29·787	29·241	10th	28·963	28th	78·3	60·6	99·2	−3·0	67·1	−4·1	83·2	−2·5	32·1	108·0	30th	56·6	9th
	Sutna	1,041	28·779	+·019	29·772	28·943	10th	28·676	28th	80·8	66·3	97·0	−3·9	68·8	−2·9	82·9	−3·4	28·2	106·8	30th	53·8	8th
	XII.—Central Provinces.																					
22	Buldana	2,134								82·5	62·5	98·4	−1·4	74·9	−1·5	86·7	−1·5	23·5	104·0	26th	66·8	9th
	Akola	925	28·930	+·011	29·794	29·033	11th	28·841	28th	86·3	61·5	104·9	−0·8	72·5	−2·2	88·7	−1·5	32·4	111·4	30th	62·4	9th
	Amraoti	1,215	28·636	+·009	29·774	28·749	10th	28·551	29th	86·7	61·2	103·9	−0·9	75·5	−0·7	89·7	−0·8	28·4	109·8	25th & 26th.	70·3	8th
23	Khandwa	1,044	28·824	+·022	29·812	28·926	10th	28·742	28th	82·7	62·8	102·7	−1·8	71·8	−3·3	87·3	−2·5	30·9	108·8	30th	61·0	8th
	Hoshangabad	1,006	28·855	+·026	29·804	28·980	10th	28·766	28th	83·0	62·9	101·8	−2·4	71·2	−2·3	86·5	−2·3	30·6	108·3	30th	61·8	8th
	Saugor	1,807	28·044	+·006	29·770	28·171	10th	27·959	28th	81·6	58·9	97·8	−2·7	72·0	−1·1	84·9	−1·9	25·8	106·2	25th	61·0	8th
	Jubbulpore	1,327	28·504	+·009	29·771	28·638	10th	28·421	29th	80·4	60·8	98·1	−3·2	67·7	−2·5	82·9	−2·9	30·4	106·1	26th	57·3	8th
	Seoni	2,033	27·838	+·015	29·769	27·964	10th	27·759	29th	84·3	61·1	98·5	−2·0	69·7	−1·2	84·1	−1·6	28·8	105·0	26th	61·1	5th
	Nagpur	1,017	28·827	+·013	29·776	28·970	10th	28·738	29th	86·4	64·4	104·2	−1·0	74·6	−1·4	89·4	−1·2	29·6	110·1	25th	66·5	10th
24	Pendra	2,040	27·819	+·014	29·757	27·940	10th	27·741	28th	81·8	61·4	96·2	0	70·6	−0·7	83·4	−0·3	25·6	103·8	30th	60·6	9th
	Raipur	970	28·860	+·002	29·763	28·973	10th	28·782	29th	85·8	65·3	102·5	−0·9	75·0	−1·5	88·7	−1·2	27·5	108·0	30th	67·1	8th
	Chanda	*634*	29·197	−·012?	29·768	29·316	10th	29·114	29th	87·2	68·0	105·8	−0·4	74·0	−2·2	89·9	−1·3	31·8	111·7	25th	66·2	8th
	Jagdalpur	1,813	28·056		29·767	28·151	10th	27·983	28th	81·0	69·1	98·3		69·9		84·1		28·4	102·2	29th	64·5	10th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·996	+·009	29·794	28·077	10th	27·934	29th	84·4	62·5	100·4	−1·9	73·0	0	86·7	−0·9	27·4	105·7	30th	61·1	3rd
	Nizamabad	1,248	28·602	?	29·767	28·701	10th	28·518	28th	87·7	66·4	105·6	+2·3	74·9	−1·6	90·3	+0·3	30·7	109·7	23rd & 25th.	67·7	9th
	Bidar	*2,165*								85·0	70·5	101·8	+3·2	65·2	−9·8?	83·5	−3.3?	36·6	107·4	19th	53·9	30th
28	Gulbarga	1,503	28·355	−·011	29·770	28·422	10th & 11th.	28·280	28th	83·9	67·9	101·7	+1·3	75·6	−0·7	90·1	+0·3	29·1	109·5	25th	69·7	1st
	Raichur	*1,311*	28·567	+·024?	29·793	28·647	11th	28·490	28th	86·0	72·1	102·9	+0·5	78·2	−0·8	90·6	−0·1	24·7	106·6	17th	73·0	1st
	Hyderabad (Deccan)	1,738	28·164	+·011	29·786	28·248	10th	28·099	28th	83·9	70·7	101·4	+0·1	75·4	−0·8	88·4	−0·3	26·0	105·7	16th	69·2	1st
	Hanamkonda	877	28·987	+·009	29·800	29·079	10th	28·916	28th	82·8	72·7	100·7	−1·1	76·7	−0·4	88·7	−0·7	24·0	106·2	15th	70·5	1st
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·519	+·006	29·807	27·572	11th	27·446	28th	77·2	66·9	96·1	−0·7	71·2	−1·3	83·6	−1·0	24·9	98·5	22nd	63·6	26th
	Hassan	3,142	26·833	+·013	29·834	26·894	11th	26·779	28th	72·5	66·9	92·5	+0·5	65·9	−0·6	79·2	−0·1	26·6	96·2	11th	61·1	6th
	Bangalore	3,021	26·955	+·007	29·821	27·013	11th	26·895	28th	75·7	68·4	92·8	−0·5	68·8	−0·5	80·8	−0·5	24·0	97·3	16th	64·8	11th
	Mysore	2,518	27·437	+·011	29·839	27·491	11th	27·375	29th	75·7	69·1	93·8	−0·7	68·6	−1·5	81·2	−1·1	25·2	97·9	16th	61·3	23rd

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in April, 1918—*continued.*

Wind direction: Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity: Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness: Actual percentage.	Departure from normal.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud: Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall: Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*contd.*
0	2	0	0	2	0	7	4	15	N 71° W	N 69° W	6·3	6·9	−0·6	59	− 4	28	−14?	·314	−·183	0·7	−1·0	0	−0·4	0	0·12	−0·12	0·21	0·61	−0·40	0	Malegaon.
4	12	2	0	0	0	0	0	12	N 18° W	N 1° W	5·8	7·7	−1·9	76	+28	26	−21	·282	−·245	0·3	−1·0	0	−1·1	0	0·32	−0·32	1·99	1·25	+0·74	0	Ahmadnagar.
4	0	0	0	0	0	2	18	6	N 83° W	N 83° W	7·6	7·7	−0·1	79	+22	40	− 1	·375	−·037?	0·4	−1·1	0	−1·4	0	0·62	−0·62	0·26	0·93	−0·67	0	Poona.
0	5	3	0	1	1	1	2	17	N 36° W	N 45° W	6·9	6·4	+0·5	69	+46	28	− 9	·322	−·115	1·1	−1·0	1	−0·1	0·53	0·47	+0·06	0·66	1·38	−0·72	0·53	Sholapur.
1	12	0	0	0	0	2	4	11	N 36 W	N 82° W	5·2	4·1	−1·1	72	+14	39	−15	·416	−·182	0·7	−1·0	0	−2·1	0	0·78	−0·78	0·09	1·48	−1·39	0	Bijapur.
26	1	0	3	0	0	0	0	0	N 72° E	S 83° W	4·5	9·6	−5·1	10	−18	54	− 4	·455	−·072	1·2	−1·0	1	−2·5	1·29	•1.62	−0·33	2·38	2·48	−0·10	1·25	Belgaum.
																															XI.—Central India.
6	2	2	3	0	3	0	9	0	N 45° E	N 51° W	5·7	6·4	−0·7	1	−21	27	−10?	·277	−·141	0·3	−1·1	0	−0·2	0	0·12	−0·12	0·06	0·80	−0·74	0	Neemuch.
7	7	4	0	1	0	0	7	4	N 28° W	N 45° W	3·5	3·2	+0·1	46	− 4	48	+ 9	·547	+·093?	0·1	−1·6	0	−0·3	0	0·15	−0·15	0·21	0·74	−0·53	0	Indore.
4	2	1	1	1	1	3	14	3	N 86° W	S 75° W	2·3	2·3	0	53	+16	30	− 7?	·299	−·109	2·2	+0·1	0	−0·2	0	0·19	−0·19	0·27	2·11	−1·84	0	Nowgong.
6	1	1	2	6	3	9	1	1	S 5° W	N 55° W	2·8	4·9	−2·1	37	− 3	44	+16	·467	+·140?	1·2	−1·0	0	−0·4	0·09	0·21	−0·12	0·77	2·74	−1·97	0·09	Sutna.
																															XII.—Central Provinces.
0	2	0	1	1	0	0	11	15	N 53° W		7·0	6·6	+0·4	77		30		·321		1·1		0	−0·6	0	0·23	−0·23	0·29	1·62	−1·33	0	Buldana.
2	0	1	2	0	0	1	8	16	N 57° W	N 67° W	4·8	4·3	+0·5	66	+13	25	− 5	·316	−·060	0	−1·9	0	−0·5	0	0·17	−0·17	0·27	1·82	−1·55	0	Akola.
2	4	7	1	2	0	1	6	7	N 20° W	S 69° W	4·9	3·9	+1·0	43	+13	18	−17	·223	−·205	0·7	−1·2	0	−0·7	0·02	0·25	−0·23	0·25	1·83	−1·58	0·02	Amraoti.
0	4	4	1	0	0	0	9	12	N 42° W	N 68° W	5·3	4·7	+0·6	69	+ 6	28	− 1	·312	−·040	1·1	−0·4	0	−0·4	0	0·11	−0·11	0·04	0·91	−0·87	0	Khandwa.
16	0	7	0	0	0	6	0	1	N	S 48° W	1·6	2·2	−0·6	5	−12	28	− 9	·311	−·123	0·7	−0·9	0	−0·3	0·02	0·14	−0·12	0·37	1·48	−1·11	0·02	Hoshangabad.
2	5	6	2	1	1	1	8	4	N 26° W	S 53° W	4·9	3·4	+1·5	37	+20	21	− 9	·220	−·121	0·7	−0·8	0	−0·4	0	0·16	−0·16	0·14	2·00	−1·86	0	Saugor.
5	1	4	1	6	3	2	6	2	S 13° W	S 18° W	2·2	2·4	−0·2	10	−23	38	− 7	·292	−·090	0·6	−1·0	0	−0·7	0·01	0·27	−0·26	1·30	2·64	−1·34	0·01	Jubbulpore.
10	9	6	2	0	0	0	0	3	N 15° E	S 86° W	2·6	2·8	−0·2	53	+44	20	−18	·231	−·173	0·9	−1·2	1	−0·3	0·24	0·50	−0·26	0·87	3·11	−2·24	0·24	Seoni.
1	5	5	4	2	0	1	3	9	N 5° W	N 83° W	3·9	4·4	−0·5	43	+35	25	−10	·312	−·121	0·7	−1·6	0	−1·2	0·03	0·61	−0·58	0·40	2·59	−2·19	0·03	Nagpur.
2	6	3	1	3	3	2	3	7	N 33° W		5·4			30		28	− 2	·301	−·008	0·5	−1·5	0	−3·1	0·05	1·06	−1·01	1·97	5·33	−3·36	0·05	Pendra.
4	0	4	5	0	0	10	3	4	S 75 W	S 56° W	3·1	4·6	−1·5	17	−20	29	− 8	·355	−·092	0·1	−2·0	1	−0·4	0·24	0·68	−0·44	1·19	2·58	−1·39	0·24	Raipur.
0	2	2	6	7	3	4	3	3	S. 40° E	S 52° E	3·3	2·6	+0·7	23	+ 4	33	− 8	·443	−·071	1·3	−0·6	0	−1·6	0	0·69	−0·69	0·37	2·87	−2·50	0	Chanda.
14	1	0	0	0	3	3	9	0	S 70° W		2·3			40		54		·574		1·2		2		1·05	1·92	−0·87	3·00	3·75	−0·75	0·80	Jagdalpur.
																															XIII.—Hyderabad.
1	9	2	4	2	1	2	5	4	N 14° W		9·6			80		26	− 3?	·297	−·056?	1·3	+0·1?	0	−0·6	0	0·26	−0·26	0·03	1·25	−1·22	0	Aurangabad.
7	1	1	0	1	4	7	2	7	S 74° W		2·3			33		29	−22	·376	−·270	1·1	−1·2	1	−0·9	0·25	0·86	−0·61	0·39	2·19	−1·80	0·23	Nizamabad.
0	7	3	1	1	0	7	7	4	N 61° W		3·8			43		47	− 5	·568	−·030	0·8	−0·7	0	−2·9	0·11	1·21	−1·10	0·56	2·44	−1·88	0·07	Bidar.
4	7	3	1	0	3	3	4	5	N 41° W	N 73° W	4·4	6·6	−2·2	33	+26	42	− 3	·490	−·111	0·6	−1·2	2	−0·3	2·00	0·96	+1·04	2·02	1·85	+0·17	1·15	Gulbarga.
0	2	2	0	4	1	13	1	7	S 67° W	S 58° W	5·8	6·2	−0·4	40	− 2	49	− 2	·610	−·007	2·0	−0·3	1	−0·5	0·25	0·81	−0·56	0·59	1·56	−0·97	0·14	Raichur.
5	3	2	1	4	0	8	5	2	S 68° W	S 72° W	3·3	3·3	0	23	+ 4	51	− 1	·586	−·008	1·3	−0·9	2	+0·2	0·56	0·96	−0·40	2·21	2·27	−0·06	0·42	Hyderabad (Deccan).
0	1	0	0	14	14	0	0	1	S 22° E		3·4			79		60	− 2	·669	−·020	2·2	−0·8	0	−2·2	0·02	0·99	−0·97	3·21	2·17	+1·04	0·02	Hanamkonda.
																															XIV.—Mysore.
4	0	0	0	0	3	10	9	4	S 69° W	S 70° W	4·1	4·9	−0·8	66	+ 3	58	− 3	·534	−·082	2·0	−0·5	3	+0·7	1·00	1·02	−0·02	5·89	1·83	+4·06	0·39	Chitaldrug.
12	1	0	0	0	0	5	2	3	S 88° W	S 82° W	4·7	2·5	+2·2	50	+21	74	+ 4	·599	−·021	2·6	−1·2	2	−2·4	1·85	2·12	−0·27	3·10	3·33	−0·23	1·55	Hassan.
0	1	0	1	1	3	9	14	1	S 67° W	S 41° W	4·8	3·5	+1·3	69	+15	67	− 4	·603	−·042	2·2	−0·7	4	+1·6	1·21	1·36	−0·15	2·76	2·78	−0·02	0·49	Bangalore.
0	0	0	0	0	0	15	15	0	S 67° W	S 68° W	4·7	5·8	−1·1	89	+37	71	− 3	·626	−·057	4·5	−0·2	5	+0·1	3·22	2·43	+0·79	4·87	3·33	+1·64	1·49	Mysore.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·855	+·009	29·858	29·912	13th	29·787	28th	83·7	76·1	91·3	−0·4	77·6	−0·6	84·4	−0·5	13·7	94·0	27th	73·4	4th
	Calicut	27	29·890	+·011	29·846	29·941	13th	29·820	29th	82·4	77·4	89·8	−1·2	78·3	+0·3	84·0	−0·5	11·5	93·0	27th	75·5	7th
	Cochin	9	29·913	+·013	29·850	29·961	13th	29·849	29th	84·7	77·6	91·9	+0·3	79·2	+0·8	85.5	+0·5	12·7	93·8	25th	76·0	5th
	Trivandrum	198	29·721	+·021	29·819	29·777	15th	29·633	8th	81·5	76·7	88·3	+0·7	77·7	−0·5	83·0	+0·1	10·6	90·8	7th	74·2	1st
31	Pamban	37	29·865	+·006	29·830	29·922	11th	29·788	29th	84·7	76·4	87·9	−3·6P	76·4	−2·7P	82·2	−3·1P	11·5	90·0	29th	74·0	4th
	Madura	447	29·158	+·010	29·834	29·523	11th	29·384	8th	84·1	77·2	98·7	−0·3	76·8	+0·1	87·7	−0·1	21·9	101·8	29th & 30th.	73·3	1st
	Pudukkottai	318	29·596	+·016	29·843	29·659	10th	29·516	28th	83·4	75·5	99·6	+0·3	76·8	−0·8	88·2	−0·3	22·8	102·1	14th & 15th.	73·1	13th
	Negapatam	31	29·892	+·018	29·842	29·952	10th	29·802	28th	84·0	77·9	91·6	−1·1	79·1	−0·2	85·4	−0·7	12·5	98·4	28th	72·5	1st
	Trichinopoly	255	29·661	+·018	29·847	29·735	10th	29·577	28th	85·2	75·8	101·9	+0·8	77·0	−0·7	89·5	+0·1	24·9	105·1	16th	71·6	1st
	Coimbatore	1,341	28·578	+·020	29·840	28·637	11th	28·507	28th	80·9	73·8	97·9	+0·7	73·2	−0·3	85·6	+0·2	24·7	101·2	9th	68·1	1st
	Salem	913	28·998	+·017	29·840	29·073	10th	28·920	28th	81·9	74·5	99·9	−0·9	76·4	+0·2	88·1	−0·3	23·5	101·9	22nd	70·1	1st
	Cuddalore	37	29·868	+·010	29·834	29·647	10th	29·785	28th	83·8	77·6	91·6	−1·4	76·7	−0·6	84·2	−1·0	14·9	99·6	14th	70·4	1st
	Vellore	707	29·190	+·006	29·831	29·269	11th	29·111	28th	81·6	74·1	100·5	+1·9P	74·5	−2·0P	87·5	−0·1P	26·0	104·2	15th	65·8	1st
	Madras	22	29·875	+·003	29·828	29·862	10th	29·790	28th	81·0	78·3	93·1	0	76·5	−0·9	84·8	−0·5	16·6	99·2	28th	68·6	1st
32	Cuddapah	428	29·434	−·005	29·792	29·506	10th	29·357	28th	88·8	78·1	103·3	−2·2	81·7	+1·0	92·5	−0·6	21·6	108·3	5 th	72·2	1st
	Bellary	1,475	28·407	+·005	29·794	28·456	10th	28·344	28th	84·5	72·6	102·9	−0·7	76·9	−0·3	89·9	−0·5	26·0	105·8	16th	71·7	1st
	Kurnool	923	28·945	+·008	29·796	29·024	11th	28·885	28th	85·4	74·3	103·6	−0·4	78·6	+0·1	91·2	−0·1	25·0	107·1	16th	70·5	29th
33	Nellore	66	29·797	−·009	29·798	29·886	10th	29·715	28th	83·2	76·7	98·4	−2·0	76·3	−1·1	87·4	−1·5	22·1	103·4	14th	70·9	1st
	Masulipatam	15	29·874	+·002	29·824	29·965	10th	29·785	7th	84·4	78·8	93·4	−1·4	76·8	−0·9	85·1	−1·1	16·6	100·3	12th	69·2	1st
	Cocanada	26	29·869	+·006	29·831	29·950	10th	29·780	7th	83·4	78·3	96·5	+0·5	77·4	−1·1	86·9	−0·3	19·1	101·4	13th	71·7	1st
	Waltair (Vizagapatam)	*226*	29·648	+·002	29·815	29·741	10th	29·557	7th	82·8	76·3	89·8	+0·4	77·3	−0·9	83·6	−0·3	12·5	92·8	7th	74·3	1st
	Calingapatam	19	29·845		29·801	29·940	10th	29·767	28th	83·5	77·9	92·4		77·8		85·1		14·6	97·7	9th	74·2	12th
	Gopalpur	33	29·788	+·006	29·785	29·883	10th	29·692	28th	80·3	77·1	87·4	−0·5	78·9	−0·2	82·2	−0·3	10·5	92·2	13th	70·3	13th
	Bay Islands.																					
1	P. V. Fraser	8	29·844		29·813	29·930	2nd	29·723	7th	82·4	78·8											
	Port Blair	58	29·869	+·011	29·857	29·933	19th	29·796	28th	82·8	76·6	92·3	0	76·8	−2·0	84·6	−1·0	15·5	94·2	23rd & 25th	74·3	5th
	Table Island		29·841	+·011	29·865	29·907	19th	29·737	28th	82·5	76·0	88·9	−0·7	78·9	−0·5	83·9	−0·6	10·0	91·9	29th	76·1	2nd
	Kashmir.																					
13	Muzaffarabad		27·506			27·652	11th	27·329	5th	61·1	53·0	75·7		52·5		64·1		23·2	94·8	29th	37·6	7th
	Srinagar	5,204	24·890	−·008	24·861	25·046	25th	24·578	5th	49·8	46·2	62·1	−4·5	42·5	−2·5	52·3	−3·5	19·6	76·7	29th	33·5	8th & 9th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·830	+·026	20·798	21·030	26th	20·500	5th	22·7	32·8*	36·0	−7·8	14·9	−4·9	25·5	−6·3	21·1	41·7	24th	−8·1	8th
	Leh	*11,503*	19·692	−·014	19·660	19·886	27th	19·398	7th	38·0	33·7†	55·1	−0·4	27·5	−2·8	41·3	−1·6	27·6	68·9	29th	16·5	8th
	Skardu	*7,505*	22·858	−·022	22·828	23·076	26th	22·552	5th	47·8	39·4‡	60·5	−1·0	41·6	−0·6	51·0	−0·8	18·9	76·2	29th	33·3	8th
	Gilgit	4,890	25·142	+·008	25·115	25·421	25th	24·798	6th	58·7	48·4	72·4	+0·9	51·0	−1·8	61·7	−0·5	21·4	87·7	29th	32·2	8th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 3 days.
† " " 10 "
‡ " " 28 "

B—*continued.*

in India, etc., in April, 1918—*continued.*

WIND DIRECTION. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
0	3	7	11	2	1	1	1	4	N 59° E	N 60° E	5·0	2·3	+2·7	49	+19	69	0	·794	—·017	3·7	—0·6	2	— 0·2	0·25	1·32	— 1·07	0·27	2·00	— 1·73	0·13	Mangalore.
17	1	1	0	0	0	0	1	10	N 40° W	N 13° E	5·8	7·5	—1·7	37	+ 4	79	+ 2	·868	—·004	3·9	—0·6	3	— 1·7	1·29	3·54	— 2·25	1·64	5·75	— 4·11	0·97	Calicut.
0	1	15	12	1	0	0	0	1	N 62° E	N 27° E	6·7	4·4	+2·3	82	+22	71	— 6	·848	—·037	3·4	—1·0	3	— 3·7	0·50	4·96	— 4·46	6·20	10·15	— 3·95	0·12	Cochin.
6	10	6	0	0	0	0	1	7	N 5° W	N 4° E	4·7	4·3	+0·4	62	+10	76	0	·849	—·009	3·2	—1·2	5	— 2·0	1·49	4·58	— 3·09	9·31	9·86	— 0·55	0·44	Trivandrum.
0	0	1	1	6	16	6	0	0	S 4° E	S 38° E	7·9	5·3	+2·6	79	+33	67	—11	·800	—·127	2·5	—0·7	1	— 2·5	0·55	1·76	— 1·21	10·75	12·46	— 1·71	0·50	Pamban.
0	2	3	8	2	2	2	3	3	N 60° E	N 41° E	3·7	2·3	+1·4	33	+ 7	72	+ 1	·835	—·005	5·7	+2·2*	0	— 3·0	0	2·14	— 2·14	9·32	5·27	+ 4·05	0	Madura.
9	0	0	1	1	6	11	1	1	S 30° W		4·2			53		68	— 7	·774	—·088	2·3	—2·6	0	— 2·4	0	1·69	— 1·69	4·41	6·09	— 1·68	0	Pudukkottai.
9	0	1	1	6	9	10	1	2	S 11° W	S 6° E	8·5	5·0	+3·5	59	+29	75	+ 1	·871	—·032	3·8	—0·5	0	— 1·1	0	0·61	— 0·61	7·88	15·11	— 7·23	0	Negapatam.
3	1	2	3	3	9	6	3	0	S 3° W	S 34° W	2·6	3·9	—1·3	43	+26	63	— 6	·765	—·051	2·5	—1·3	0	— 1·8	0	1·78	— 1·78	2·89	6·05	— 3·16	0	Trichinopoly.
17	1	4	0	2	2	4	0	0	S 31° E	S 1° W	3·3	2·2	+1·1	7	— 8	71	—10	·745	—·073	1·9	—2·2	0	— 3·1	0·07	1·51	— 1·44	1·90	4·11	— 2·21	0·07	Coimbatore.
5	0	6	2	0	7	9	1	0	S 7° W	S 67° E	3·5	3·4	+0·1	30	+17	69	— 4	·756	—·083	3·0	—0·6	2	— 1·7	0·84	1·91	— 1·07	1·85	4·03	— 2·18	0·55	Salem.
2	0	0	0	4	15	8	1	0	S 9° W	S 39° W	7·8	2·0	+5·8	79	+27	75	— 3	·863	—·076	3·0	—0·7	0	— 1·2	0	0·62	— 0·62	5·60	10·66	— 5·06	0	Cuddalore.
21	0	0	2	1	2	0	3	1	S 27° W		3·5			8		69	— 4	·742	—·073	0·7	—1·9	0	— 1·5	0	1·23	— 1·23	5·01	6·37	— 1·36	0	Vellore.
0	0	0	0	7	13	9	1	0	S 6° W	S 10° W	5·5	5·5	0	79	+ 6	76	+ 1	·686	—·016	3·3	—1·0	0	— 0·8	0	0·60	— 0·60	16·31	8·17	+ 8·14	0	Madras.
0	3	2	3	4	4	3	3	8	N 72° W	S 41° E				10	—27	60	+ 4	·823	+·075	1·6	—1·1	0	— 1·0	0	0·50	— 0·50	1·88	2·14	— 0·26	0	Cuddapah.
3	5	2	1	1	2	1	7	8	N 50° W	N 69° W	4·2	3·9	+0·3	46	+16	54	+ 4	·649	+·056	1·6	—1·3	0	— 2·0	0·20	0·82	— 0·62	0·78	1·35	— 0·57	0·09	Bellary.
4	0	0	0	3	1	10	7	5	S 67° W	S 10° E	4·2			53	+46	58	+ 3	·703	+·030	2·6	+0·2	2	+ 0·1	0·21	0·63	— 0·42	1·37	1·47	— 0·10	0·11	Kurnool.
0	0	0	0	0	0	19	11	0	S 62° W	S 29° E	5·4	6·0	—0·6	86	+19	73	— 1	·829	—·053	2·5	—1·7	0	— 0·5	0	0·42	— 0·42	12·32	5·28	+ 7·04	0	Nellore.
0	0	0	0	4	18	7	1	0	S 7° W	S 1° E	6·8	5·6	+1·2	86	+19	77	— 4	·904	—·084	4·7	0	0	— 0·8	0	0·60	— 0·60	2·45	2·45	0	0	Masulipatam.
7	0	0	1	1	2	11	7	1	S 54° W	S 66° W	5·1	5·5	—0·4	56	+ 9	79	+ 3	·897	—·001	5·9	+1·6†	1	0	0·46	0·61	— 0·15	2·48	2·59	— 0·11	0·46	Cocanada.
0	0	0	0	0	6	21	3	0	S 41° W	S 75° W	5·8			89	+16	73	+ 2	·817	+·004	3·1	—1·2	1	— 0·9	0·48	0·85	— 0·37	1·41	3·49	— 2·08	0·48	Waltair (Vizagapatam).
0	0	0	0	0	2	14	12	2	S 64° W		9·6			83		77		·878		1·1		0	— 4·0	0·03	1·67	— 1·64	1·	4·06	— 2·74	0·03	Calingapatam.
0	3	0	0	0	13	13	0	1	S 28° W	S 35° W	11·7	13·1	—1·4	69	+ 2	86	+ 4	·889	+·016	1·8	+0·6	1	— 0·5	0·13	0·85	— 0·72	1·19	2·96	— 1·77	0·13	Gopalpur.
																															Bay Islands.
0	0	0	0	2	5	18	4	1	S 42° W					77		85		·934		4·3		2		0·50	0·76	— 0·26	0·56	3·90	— 3·34	0·28	P. V. Fraser.
18	2	3	1	0	0	0	2	4	N 14° W	N 82° W	2·9	3·5	—0·6	23	— 7	74	— 9	·828	—·107	2·3	—2·1	1	— 3·3	0·42	2·73	— 2·31	14·51	12·88	+ 1·63	0·42	Port Blair.
0	3	0	3	0	1	3	10	11	N 63° W		5·9			62		73	— 2	·813	—·047	2·3	—2·7	0	— 1·4	0·07	0·72	— 0·65	6·28	4·19	+ 2·09	0·07	Table Island.
																															Kashmir.
21	0	0	0	0	1	7	1	0	S 45° W		1·8			27		59		·307		4·3		10		8·30	4·91	+ 3·39	27·62	20·30	+ 7·32	2·56	Muzaffarabad.
8	2	1	2	2	8	1	2	6	S 41° W	S 29° E	3·9	3·5	+0·4	13	+ 2	76	— 9	·281	—·041	4·7	—0·4	10	+ 2·6	6·18	3·80	+ 2·38	16·16	14·48	+ 1·68	1·43	Srinagar.
																															Gulmarg.
29	0	0	0	0	0	0	0	1	N 45° W		0·5			3		83*		·169*		5·1	0	9	— 0·1	5·13	3·86	+ 1·27	18·79	14·75	+ 4·04	0·92	Dras.
10	0	1	0	4	13	1	1	0	S 7° E	S 66° W	3·5	2·3	+1·2	53	+25	42†		·110†		4·8	—1·1	0	— 0·7	0·06	0·25	— 0·19	0·61	1·42	— 0·81	0·03	Leh.
15	0	0	5	1	2	1	4	2	S 11° W		4·9			7		46‡	—14	·155‡	—·062	5·4	—0·2	0	— 2·8	0·20	1·25	— 1·05	2·14	4·23	— 2·09	0·09	Skardu.
27	0	0	0	0	0	3	0	0	S 45° W		0·3			10		46	— 5	·223	—·021	5·1	—1·0	4	+ 1·1	0·97	1·06	— 0·09	1·22	2·06	— 0·84	0·36	Gilgit.

* Mean of 3 days.
† " " 10 "
‡ " " 28 "

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·386		25·355	25·522	25th	25·172	5th	59·4	48·2	75·5		50·9		63·2		24·6	92·3	29th	35·3	8th
	Quetta	5,502	24·639	+·002	24·599	24·749	11th	24·480	3rd	51·6	46·1*	69·7	−4·2	43·0	−2·8	56·3	−3·5	26·7	84·5	29th	26·9	6th
	Chaman	4,311	25·666	−·021	25·628	25·823	11th	25·521	3rd	58·9	50·9†	73·4	−3·9	51·6	−2·6	62·5	−3·3	21·8	89·1	29th	29·9	6th
	Kalat	6,630	23·737		23·699	23·850	26th	23·583	4th	46·9	42·8‡	67·5	−6·7	40·2		53·8		27·3	82·0	30th	24·7	7th
	Dalbandin	2,772	27·083		27·051	27·219	6th	26·932	3rd	62·8	52·6	85·0		41·8‖		60·7‖		43·2	99·5	30th	37·1	1st
	Pasni		29·966		29·866	30·035	6th	29·749	30th	71·7	67·1	88·3		62·3		75·3		26·0	98·9	27th	54·3	7th
	Panjgur		26·707		26·665	26·816	11th	26·579	17th	57·5	50·8	83·8		54·5		69·2		29·3	98·2	30th	40·2	7th
	Robat		26·834		26·792	27·055	11th	26·671	16th	63·7	52·5	82·1		52·8		67·5		29·3	97·7	28th	33·0	6th
	Seistan		28·153			28·390	6th	27·940	16th	60·1	53·3	79·6		54·5		67·2		25·1	97·5	19th	39·8	4th & 5th.
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·456	+·038	24·432	24·559	13th	24·130	5th	54·0	46·4†	66·7	−0·9	44·2	−2·5	55·4	−1·7	22·5	83·2	28th & 29th.	29·1	8th
	Cherat	*4,256*	25·697	+·022	25·665	25·818	10th	25·404	5th	58·3	47·7	67·6	−5·1	51·9	−4·0	59·3	−4·5	15·7	87·1	29th	35·3	7th
	Drosh (c)		25·125			25·275	10th	24·825	5th	52·6‖	46·1	64·9	−4·8	47·7	−1·1	56·3	−2·9	17·2	83·5	29th	32·8	6th
	Murree	6,333	23·774	−·053	23·742	23·882	25th	23·470	5th	52·7	43·7*	59·8	−7·2	47·3	−3·6	53·4	−5·4	12·5	79·8	29th	29·7	7th
	Simla	7,232	23·695	−·001	23·057	23·193	25th	22·968	7th	54·1	43·7	60·9	−4·3	48·1	−3·3	54·5	−3·8	12·8	73·4	30th	33·5	6th
	Chakrata	7,072	23·343	P	23·303	23·451	25th	23·235	7th	57·1	46·6	66·9	−2·4	48·6	−3·0	57·8	−2·7	18·3	78·3	30th	35·1	6th
	Mukteswar	7,592	22·835	−·015	22·794	22·975	25th	22·716	7th	55·2	44·8	65·6	−3·7	47·4	−3·0	56·5	−3·3	18·2	76·7	28th & 29th.	32·8	3rd
	Darjiling	7,432	22·926	−·016	22·881	23·060	25th	22·754	7th	53·1	48·5	62·3	−0·2	47·2	−1·3	54·7	−0·7	15·1	69·3	29th	42·5	2nd & 4th.
	Shillong	4,920	25·120	+·015	25·072	25·254	25th	24·973	7th	64·5	55·0	72·7	−1·1	54·8	−1·8	63·8	−1·5	17·9	78·2	11th	48·9	16th
	Cherrapunji	4,309	25·677	+·002	25·628	25·750	25th	25·543	7th	63·0	59·3	70·1	−0·4	57·1	−1·4	63·6	−0·9	13·0	75·8	25th	51·3	18th
	Netarhat		26·170		26·119	26·219	2nd	26·124	14th	78·1	58·3	89·0		63·0		76·0		26·0	96·2	30th	51·7	15th
	Maymyo	3,546	26·418	−·007	26·363	26·500	16th	26·314	7th	69·2	62·4	81·8	−2·5	57·5	−1·9	69·6	−2·2	24·3	85·5	15th	51·6	10th & 11th.
	Pachmarhi	3,528	26·431	−·016	26·378	26·518	10th	26·281	28th	74·5	58·2	91·4	−0·7	65·5	−3·9	78·5	−2·3	25·9	97·8	26th	57·1	10th
	Mount Abu	3,945	26·046	9	25·996	26·145	11th	25·947	16th	73·3	55·2	80·9	−3·9	65·7	−3·0	73·3	−3·5	15·2	89·5	28th	53·4	7th
	Mercara	3,781	26·224	−·010	26·157	26·267	12th & 13th.	26·163	28th	69·7	63·7	84·8	+0·8	61·7	−2·2	73·4	−0·7	23·1	90·2	11th	59·0	1st & 11th.
	Ootacamund	*7,337*	23·085	+·015	23·021	23·132	13th	23·025	28th	62·1	53·6	71·1	0	50·0	−1·9	60·5	−0·9	21·1	73·7	22nd	43·2	1st
	Kodaikanal	7,688	22·856	+·004	22·791	22·898	13th	22·805	28th	60·2	50·1	72·4	+3·1	51·9	−1·8	62·2	+0·7	20·5	76·4	19th	47·7	1st
	Extra India.																					
	Singapore (a)	10	29·837	−·083	29·768	29·895	20th	29·767	1st	83·5		87·8	−0·8	73·6	−1·0	80·7	−0·9	14·2	90·5	13th	71·5	5th
	Penang (a)	17	29·832	−·083	29·774	29·914	19th	29·764	8th	81·8		89·7	−1·3	72·2	−2·2	80·9	−1·7	17·5	95·0	2nd	69·0	19th
	Trincomalee	99	29·814	+·024	29·841	29·832	13th	29·741	28th	80·6	75·6	93·4	+1·9	76·9	−0·8	85·1	+0·5	16·5	100·2	18th	74·1	6th
	Colombo	24	29·838	+·006	29·818	29·940	13th	29·820	8th	76·6	74·6	89·4	+0·1	74·9	−1·3	82·1	−0·6	14·5	92·6	10th	71·4	30th
	Hambantota	64	29·861		29·851	29·905	12th	29·788	7th & 8th.	76·0	73·8	87·8		74·5		81·1		13·3	90·5	29th	71·5	3rd
	Minicoy	7	29·936	+·026		29·981	14th	29·879	8th & 29th.													
	Amini Divi	*13*	29·915	+·016	29·856	29·969	13th	29·850	29th	85·6	77·3	93·7	+2·8P	79·7	−0·2	86·7	+1·3P	14·0	96·0	20th	75·9	2nd
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·440	−·010	24·395	24·566	25th	24·253	7th	58·0	53·2	68·6	−1·8	51·2	+4·1	59·9	+1·1	17·4	73·9	28th	45·2	23rd
	Gartok (c)	15,100																				

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(c) Aneroid.

* Mean of 28 days.
† " " 29 "
‡ " " 27 "
‖ " " 5 "

B—*continued.*

in India, etc., in April, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Dec. 1917 to 30th April 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	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	54	55
																															Baluchistan.
22	0	0	0	0	3	3	2	0	S 39° W		2·2			23		44		·219		1·8		4		1·95	1·16	+0·79	8·15	5·22	+2·93	1·02	Fort Sandeman.
22	1	1	1	4	1	0	0	0	S 64° E	S 45° W	2·4	2·6	−0·2	17	+10	60*	+ 9	·240*	−·026	3·7	+1·3	2	−1·0	0·42	1·06	−0·64	7 57	7·84	−0·27	0·18	Quetta.
2	0	1	9	12	4	1	0	1	S 55° E	S 2° W	4·9	5·9	−1·0	36	+23	55L	+ 5	·278L	−·026	4·1	+1·6	2	+0·4	0·51	0·69	−0·18	9·78	6·40	+3·38	0·19	Chaman.
29	0	9	0	0	0	0	0	1	N 45° W	S 35° W	4·1			3	−47	64‡	+15	·220‡	−·011	2·8		1	−0·4	0·24	0·56	−0·32	3·63	5 03	−1·40	0·16	Kalat.
4	2	5	6	2	2	4	4	1	E		5·4			11		48		·278		1·4		0		0	0·43	−0·43	3·25	3·22	+0·03	0	Dalbandin.
3	2	1	0	0	0	2	16	6	N 75° W		3·1			69		78		·613		1·9		1		0·17	0·52	−0·35	6·67	5·53	+1·14	0·10	Pasni.
9	1	11	8	1	0	0	0	0	N 61° E		5·2			59		62		·300		4·3		0		0·03			1·83			0·03	Panjgur.
5	1	2	2	0	0	10	10	0	S 71° W		4·5			49		46		·270‡		2·5		1		0·21	0·52	−0·31	3·71	3·47	+0·24	0·18	Robat.
13	2	0	0	0	0	0	0	15	N 41° W		5·2			56		63		·326		1·7		1		0·22			2·70			0·11	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		1·1			(a)		56L	+ 1	·231L	−·017	2·4	−1·1	7	−1·7	4·34	4·45	−0·11	17·12	14·50	+2·62	1·10	Para Chinar.
3	14	0	0	2	2	1	1	7	N 19° W	N 11° W	7·6	9·6	−2·0	53	+ 1	48	− 2	·219	−·018	3·2	+0·2	5	−0·1	5·30	2·80	+2·50	17·05	14·35	+2·70	1·81	Cherat.
25	0	2	2	1	0	0	0	0	N 80° E					13		62	− 2	·244	−·024	4·9	+1·4	6	−2·1	3·07	4·33	−1·26	12·80	10·34	+2·46	0·77	Drosh.
11	7	3	3	5	0	0	0	1	N 51° E	N 68° E	6·0	6·8	−0·8	33	+13	47*	− 1	·184*	−·040	3·7	−0·2	11	+4·4	12·58	4·06	+8·52	34·22	16·40	+15·82	3·14	Murree.
																44	+ 4	·182	−·006	3·4	+0·1	9	+5·3	4·21	1·75	+2·46	10·59	11·73	−1·14	1·17	Simla.
2	2	17	9	0	0	0	0	0	N 56° E	N 17° E	8·5	5·5	+3·0	82	+44	48	+ 2	·211	+·001	2·6	−0·1	7	+3·0	4·18	1·69	+2·49	16·15	15·09	+1·06	1·28	Chakrata.
6	3	1	5	2	1	0	11	1	N 66° W		6·4			17		45	+ 5	·191	+·008	3·1	+0·3	4	+0·4	3·10	1·45	+1·65	6·11	9·37	−3·26	0·98	Mukteswar.
15	0	3	3	2	1	0	3	3	N 38° E	S 28° E	3·6	6·3	−2·7	7	− 1	73	− 5	·293	−·043	5·8	+0·9	9	+1·9	5·48	3·80	+1·68	11·56	7·63	+3·93	0·91	Darjiling.
11	0	0	1	0	3	9	1	0	S 24° W		4·4			49		55	− 6	·327	−·041	3·0	−0·4	8	−1·6	4·32	5·13	−0·81	5·20	9·36	−4·16	1·61	Shillong.
1	0	4	4	4	1	7	3	1	S 38° W		6·3			23		81	− 4	·465	−·030	7·2	+0·4	13	−5·0	11·28	31·68	−20·40	20·40	44·86	−24·46	5·39	Cherrapunji.
1	1	0	0	4	3	5	3	13	N 85° W		4·9			43		27		·268		0·2		0		0·05			0·69			0·05	Netarhat.
11	0	0	0	0	1	12	6	0	S 57° W		2·8			53		69	0	·488	−·051	2·4	+0·1	6	+3·0	2·45	2·34	+0·11	2·58	3·83	−1·25	0·77	Maymyo.
5	8	3	4	1	0	1	4	4	N 4° W	N 88° W	4·7	4·4	+0·3	37	+10	36	+ 6	·303	+·005	0	−1·8	0	−0·7	0	0·31	−0·31	0·59	2·53	−1·94	0	Pachmarhi.
1	3	4	0	3	1	9	3	6	N 86° W	N 63° W	4·8	6·4	−1·6	30	−13	29	− 1	·235	−·026	1·7	+0·4	0	−0·4	0	0·13	−0·13	0·12	1·05	−0·93	0	Mount Abu.
16	0	4	1	1	0	1	5	2	N 43° W	N 21° W	2·2	2·9	−0·7	13	−27	72	− 7	·516	−·067	2·9	−1·6	3	−2·3	1·62	2·64	−1·02	2·19	4·41	−2·22	0·83	Mercara.
11	0	0	3	11	5	0	0	0	S 41° E		2·8			56		59	+ 5	·326	+·019	4·0	+0·7	7	+0·4	2·67	2·60	+0·07	7·90	7·98	−0·08	0·67	Ootacamund.
0	5	6	11	5	0	0	0	3	N 65° E		3·0			62		50	− 9	·258	−·054	1·3	−1·8	3	−4·4	2·12	4·51	−2·39	10·60	15·07	−5·07	1·76	Kodaikanal.
																															Extra India.
18	2	1	1	2	0	3	1	2	N 65° W					3						7·1	+2·3	13	+1·3	8·63	8·63	0	46·16	46·92	−0·76	1·59	Singapore.
0	4	13	2	8	1	0	0	2	N 63° E					56								12	+1·7	8·43	7·03	+1·40	17·41	24·91	−7·50	1·77	Penang.
17	0	0	0	0	2	8	3	0	S 48° W	S 39° W	2·9	5·0	−2·1	40	−28	79	− 5	·821	−·101	2·7	+0·1	1	−2·2	0·13	1·92	−1·79	25·88	25·19	+0·69	0·13	Trincomalee.
23	0	2	2	2	0	0	1	0	E	S 12° E	2·8	4·6	−1·8	13	−39	90	+ 7	·825	−·081	5·0	+0·1	8	−2·6	3·59	9·71	−6·12	14·19	25·20	−11·01	0·80	Colombo.
5	12	0	0	0	0	0	2	11	N 26° W		6·2			72		89		·801		3·3		4		0·91	3·26	−2·35	18·85	15·70	+3·15	0·33	Hambantota.
0	14	0	2	1	0	2	1	10	N 20° W	N 59° W	3·4	5·4	−2·0	70	+15					2·7	−1·4	1	−3·2	0·77	2·93	−2·16	11·75	9·82	+1·93	0·77	Minicoy.
2	9	2	1	0	6	0	3	13	N 27° W		6·1			78		67	− 6	·823	−·073	4·0	−0·7	0	−2·0	0	1·68	−1·68	6·01	3·36	+2·65	0	Amini Divi.
																									0·17			0·28			Gyantse.
																									0·93			2·41			Pharijong.
29	0	1	0	0	0	0	0	0	N 45° W		1·0			3		74	− 1	·359	−·026	1·2	−1·5	14	−0·7	9·80	11·84	−2·04	23·97	21·57	+2·40	2·22	Gangtok.
																									0			0			Gartok.

(a) Indeterminate.

* Mean of 28 days.
L " " 29 "
‡ " " 27 "

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Kashgar (*c*)	4,255	25·411	−·139		25·740	14th	25·040	3rd	56·6	48·7	72·6	+2·1	46·3	−1·6	59·4	+0·3	26·3	92·3	29th & 30th	31·8	10th
	Kabul (*c*)	...																				
	Meshed	3,104								48·3	45·8N	65·7	−2·5	42·0	−4·9	53·8	−3·7	23·7	82·9	16th	27·0	6th
	Jask	13	29·901	+·031	29·868	30·079	11th	29·797	29th	73·2	68·2	83·7	−2·8	69·7	−3·5	76·7	−3·1	14·0	92·0	30th	63·3	9th
	Muscat	20	29·911	+·041	29·880	30·083	11th	29·819	30th	79·5	68·2	85·2	−1·3	76·3	−3·4	80·7	−2·3	8·9	101·9	30th	71·1	2nd
	Bushire	14	29·915	+·019	29·891	30·102	11th	29·792	7th	71·9	63·5	78·5	−2·7	64·9	−2·2	71·7	−2·5	13·6	91·6	26th	57·0	3rd
	Busrah	25	29·918	−·017	29·912	30·119	11th	29·772	7th	69·1	62·1	81·9	−1·9	60·3	−4·7	71·1	−3·3	21·6	91·3	27th	52·6	3rd
	Kerman (*c*)																					
	Ispahan (*c*)	*5,817*	24·262	−·108		24·410	11th & 12th	24·090	3rd	48·7	43·2	64·9	−7·1	43·1	−2·7	54·0	−4·9	21·8	74·4	30th	34·2	8th
	Tehran (*c*)	*4,002*	25·708	−·202		25·870	5th	25·520	19th	54·6	47·8	66·5	−4·9	45·6	−2·5	56·0	−3·7	20·9	75·0	15th	35·6	5th
	Baghdad	127	29·762			29·961	10th	29·457	1st	60·4	56·2	76·7	−6·1	57·1	−1·0	66·9	−3·5	19·6	86·2	30th	50·4	3rd
	Beirut (*a*)																					
	Aden	94	29·827	−·017	29·853	29·916	11th	29·754	4th	79·7	75·4	85·6	−3·1	78·2	+0·5	81·9	−1·3	7·4	90·8	26th	74·9	3rd
	Zanzibar	72	29·934	−·002	29·932	29·994	11th	29·860	3rd	79·1	75·7	85·0	+0·6	76·8	−0·5	80·9	+0·1	8·2	89·3	1st	72·9	24th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*a*) 8½ hrs. observations.
(*c*) Aneroid.
N Mean of 26 days.

B—*concluded.*

stations in India, etc., in April, 1918—*concluded.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Number of winds from																														
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917 to 30th April, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																															Extra India —*concld.*
26	0	0	1	0	0	0	1	2	N 45° W	N 21° W	1·2	3·4	−2·2	3	−9	58	+11	·267	+·054	3·7	−0·7	1	−0·1	0·31	0·26	+0·05	0·61	1·07	−0·46	0·25	Kashgar.
										N 89° W															3·67			10·64			Kabul.
30	0	0	0	0	0	0	0	0	Calm.		1·9			(a)		69†	+ 1	·259†	−·053	4·1	−0·4	4	−0·5	1·67	1·90	−0·23	9·58	6·47	+3·11	0·57	Meshed.
6	4	2	5	0	1	0	4	8	N 18° W	N 45° W	8·5	7·2	+1·3	33	+18	76	+8	·627	−·046	2·9	+1·4	1	+0·8	0·83	0·08	+0·75	8·06	3·74	+4·32	0·77	Jask.
8	2	1	3	2	1	0	6	7	N 48° W	N 51° W	6·2	3·1	+3·1	29	− 1	55	− 4	·547	−·109	3·9	+2·8	1	+0·6	0·31	0·30	+0·01	1·82	3·52	−1·70	0·13	Muscat.
17	0	1	4	3	2	0	3	0	S 48° E	N 1° E	4·0	6·6	−2·6	17	−20	61	− 5	·480	−·065	3·4	+0·2	2	+0·9	0·39	0·48	−0·09	6·94	9·14	−2·20	0·15	Bushire.
2	0	4	4	3	0	6	11	0	S 63° W		5·7			23		65		·467		4·6		4	+2·5	0·76	0·44	+0·32	9·55	4·90	+4·65	0·21	Busrah.
																															Kerman.
22	0	0	2	0	0	3	3	0	S 55° W	N 83° W	2·0‡	4·7	−2·7	10	−27	65	+ 4	·228	−·051	3·1	+0·4	2	−0·4	2·18	0·59	+1·59	5·23	3·53	+1·70	1·43	Ispahan.
15	2	3	6	0	1	2	0	1	N 72° E	S 63° W	4·7	3·2	+1·5	23	+ 8	61	+ 4	·260	−·009	4·7	+1·6	4	+1·0	0·95	1·37	−0·42	6·99	7·18	−0·19	0·22	Tehran.
										N 2° W	9·7	3·1	+6·6			78		·400		4·0		7	+4·9	2·71	0·81	+1·90	7·73	5·80	+1·93	0·72	Baghdad.
																															Beirut.
3	5	22	0	0	0	0	0	0	N 37° E	N 80° E	14·7	11·2	+3·5	82	+ 8	81	+ 7	·822	+·019	5·4	+1·8	0	−0·4	0	0·21	−0·21	0·41	1·43	−1·02	0	Aden.
1	0	1	0	1	14	13	0	0	S 19° W	S 15° W	5·6	5·2	+0·4	83	− 1	85	− 2	·837	−·031	8·4	+1·5	16	+1·2	11·55	13·73	−2·18	20·05	31·01	−10·96	2·07	Zanzibar.

(a) Indeterminate.

† Mean of 26 days.
‡ „ „ 29 „

Table C.—Abstract of observations taken at 8 hrs. at 68 fourth and fifth class stations in India, etc., in April, 1918.

Table

Abstract of observations taken at 8 hrs. at 68 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.									
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	71·5	67·2	84·5	+1·4	65·1	+2·4	74·8	+1·9	19·4	94·9	25th	60·7	9th & 10th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	73·5	71·1	85·4	−0·6	62·8	−1·7	74·1	−1·1	22·6	95·0	25th	55·6	8th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	73·9	72·9	89·2	+0·2	65·7	−0·6	77·5	−0·2	23·5	96·6	26th	61·1	18th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	69·1	65·8	83·0	+4·1	63·8	+1·7	73·4	+2·9	19·2	93·3	25th	57·7	16th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	70·8	67·2	82·7	+2·5	63·7	−0·3	73·2	+1·1	19·0	93·2	30th	56·8	16th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	69·3	68·2	82·1	0	62·9	...	72·5	...	19·2	92·9	25th	58·9	5th, 9th & 17th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	73·8	70·7	86·8	−0·5	65·1	−2·6	75·9	−1·5	21·7	92·6	26th	56·2	5th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	71·3	67·6	83·2	+1·4	*72·1	+6·4	77·7	+3·9	11·1	93·1	25th	66·0	14th	...	...	...	...	...	...	...	...	...	...	...
	Lumding‡	74·2	68·7	88·1	...	64·2	...	76·1	...	23·9	94·7	25th	56·4	10th	...	...	...	...	...	...	...	...	...	...	...
	Messa	76·8	69·2	89·5	−0·3	61·9	−2·3	75·7	−1·3	27·6	97·3	25th	54·2	4th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	66·5	63·6	85·4	+1·9	58·8	−4·8	72·1	−1·5	26·6	93·3	25th	53·5	8th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	78·7	74·0	90·9	−0·5	68·7	−1·7	79·7	−1·1	22·2	96·3	30th	60·1	2nd	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	81·8	74·0	92·7	−2·8	69·3	−2·4	81·0	−2·3	23·4	100·9	15th	57·1	9th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	†79·1	72·6	93·0	−4·2	70·5	−0·1	81·7	−2·1	22·5	99·3	14th & 27th	59·9	9th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	71·9	67·9	89·7	+0·4	58·1	−6·1	73·9	−2·9	31·6	93·1	17th	52·0	4th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	75·9	69·9	87·7	+0·5	62·6	−2·9	75·1	−1·2	25·1	92·1	26th	55·0	8th & 9th,	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	76·7	67·8	86·6	−1·1	63·5	−2·8	75·1	−1·9	23·1	91·6	2nd	56·0	8th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 17 days.
† " " 29 "
‡ " " 27 "

C.

and fifth class stations in India, etc., in April, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 30th April 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	79	−12	·612	−·040	...	...	6	−6·5	2·20	7·46	−5·26	10·44	12·75	−2·31	0·72	Bishnath.
...	...	...	...	...	88	+ 2	·735	+·063	...	...	7	−3·4	3·17	6·32	−3·15	8·56	10·59	−2·03	1·17	Borjuli.
...	...	...	...	...	95	+ 9	·801	+·059	...	...	13	+0·2	9·73	10·98	−1·25	21·24	18·55	+2·69	1·59	Chandkhira.
...	...	...	...	...	84	− 8	·597	−·025	...	...	12	−3·0	5·94	10·68	−4·74	13·83	21·20	−7·37	1·12	Doom Dooma.
...	...	...	...	...	82	− 8	·623	+·003	...	...	10	−5·5	4·53	10·77	−6·24	11·45	19·76	−8·31	1·00	Dikom.
...	...	...	...	...	94	+ 5	·679	+·014	...	...	7	−6·0	6·31	7·07	−0·76	12·63	12·98	−0·35	2·52	Golaghat.
...	...	...	...	...	85	− 3	·709	+·018	...	...	12	−2·8	10·45	14·57	−4·12	20·95	24·03	−3·08	3·95	Hailakandi.
...	...	...	...	...	82	− 5	·631	−·013	...	...	6	−7·3	4·90	9·37	−4·47	13·79	15·94	−2·15	1·89	Jorehat.
...	...	...	...	...	75	...	·630	...	...	...	10	+1·7	3·23	4·10	−0·87	7·59	8·38	−0·79	0·70	Lumding.
...	...	...	...	...	67	−12	·617	−·056	...	...	9	−1·0	5·60	6·11	−0·51	12·24	10·96	+1·28	2·28	Messa.
...	...	...	...	...	85	−1	·553	−·019	...	...	4	−6·7	2·04	7·81	−5·77	6·22	12·74	−6·52	0·51	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	7	+0·1	5·60	6·49	−0·89	9·72	11·14	−1·42	1·90	Comilla.
...	...	...	...	...	80	0	·779	+·033	...	...	8	+0·2	8·75	7·38	+1·36	13·87	13·16	+0·71	2·66	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	8	+2·0	4·42	4·58	−0·16	8·95	8·56	+0·39	1·06	Faridpur.
...	...	...	...	...	69	− 8	·742	−·057	...	...	6	−0·3	3·69	4·07	−0·38	6·01	8·28	−2·27	1·08	Goalundo.
...	...	...	...	...	74*	− 5	·730*	−·077	...	...	5	+0·3	1·79	2·92	−1·13	2·94	5·71	−2·77	0·72	Pabna.
...	...	...	...	...	...	...	...	...	...	...	3	−2·0	1·09	3·40	−2·31	3·59	5·99	−2·40	0·50	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	3	+0·1	1·59	1·85	−0·26	1·70	4·09	−2·39	0·68	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	3	+1·0	5·17	1·03	+4·14	5·23	3·36	+1·87	2·10	Malda.
...	...	...	...	...	...	...	...	...	...	...	5	+0·7	5·23	3·12	+2·11	5·29	5·45	−0·16	2·88	Rangpur.
...	...	...	...	...	81	− 5	·630	−·075	...	...	9	+2·3	8·25	4·94	+3·31	9·68	8·85	+0·83	2·42	Dam Dim.
...	...	...	...	...	72	− 6	·657	−·088	...	...	8	−1·0	5·56	6·39	−0·83	6·51	10·55	−4·04	1·08	Kalchini.
...	...	...	...	...	63	−10	·568	−·041	...	...	10	+1·2	6·43	6·25	+0·18	9·95	10·90	−0·95	2·06	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	7	+0·6	9·71	5·17	+4·54	9·71	8·70	+1·01	2·18	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	5	+1·2	6·22	2·30	+3·92	9·84	5·84	+4·00	3·01	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	2	−1·1	1·79	1·33	+0·46	2·06	4·18	−2·12	1·62	Bankura.
...	...	...	...	...	...	...	...	...	...	...	3	+0·2	1·75	1·42	+0·33	2·55	4·12	−1·57	0·89	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	1	−0·5	0·18	0·51	−0·33	1·00	3·66	−2·66	0·16	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	3	+1·4	0·68	0·76	−0·08	0·88	2·72	−1·84	0·25	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	4	+3·0	1·82	0·49	+1·33	2·05	2·18	−0·13	1·00	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	4	+2·8	2·38	0·82	+1·56	2·49	2·63	−0·14	0·75	Motihari.
...	...	...	...	...	...	...	...	...	...	...	3	+2·3	0·62	0·34	+0·28	0·80	2·06	−1·26	0·30	Chapra.
...	...	...	...	...	...	...	...	...	...	...	1	+0·5	0·58	0·29	+0·29	0·73	2·38	−1·65	0·56	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−0·6	0·02	0·24	−0·22	0·07	2·40	−2·33	0·02	Dehri.

* Mean of 29 days.

Table

Abstract of observations taken at 8 hrs. at 68 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maxima and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	81·8	60·5	98·8	...	69·2	...	84·0	...	29·6	105·8	25th	62·9	3rd	19	4	1	1	0	0	0	0	5	N 14° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	83·0	76·4	102·2	...	76·9	...	89·6	...	25·3	105·6	19th	67·7	1st	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	83·2	79·5	99·3	...	76·9	...	88·1	...	22·4	107·0	14th	71·8	2nd	...	...	...	...	...	...	...	...	...	...	...
	Koraput	75·8	66·8	91·9	...	66·7	...	79·3	...	25·2	95·5	14th	61·8	3rd	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	69·3	62·2	82·8	...	62·8	...	72·8	...	20·0	98·9	30th	49·8	7th	0	11	15	2	0	0	1	0	1	N 27° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	38·4	36·6*	54·3	...	24·6	...	39·5	...	29·7	69·0	29th	14·1	8th	20	2	0	2	4	2	0	0	0	S 59° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	74·3	64·7	87·2	−0·4	66·8	0	77·0	−0·2	20·4	93·3	8th	60·0	8th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	65·6	64·9	72·4	+1·0	56·6	−1·2	64·5	−0·1	15·8	77·3	28th	51·9	19th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	55·2	−3·7	38·3	−0·5	46·7	−2·1	16·9	71·0	30th	29·1	6th	10	0	2	5	5	3	4	1	0	S 37° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	70·3	−5·5	38·4	−5·0	54·4	−5·3	31·9	85·4	29th	22·3	6th	...	...	...	...	...	...	...	...	...	...	...

*Mean of 19 days.

C—*continued.*

and fifth class stations in India, etc., in April, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December 1917 to 30th April 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	2	+1·2	5·10	0·32	+4·78	6·42	3·59	+ 2·83	4·40	Meerut.
...	...	...	...	...	...	...	...	...	...	...	4	+2·3	2·17	0·71	+1·46	4·94	7·62	− 2·68	0·79	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·5	0	0·18	−0·18	0·15	0·69	−0·54	0	Udaipur.
																				XII.—Central Provinces.
2·0	...	...	27	...	24	...	·288	...	6·7	...	0	...	0·69	0·63	−0·54	0·81	3·29	−2·48	0·09	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	1	+0·2	0·18	0·35	−0·17	0·18	1·15	−0·97	0·14	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	−2·3	0·93	2·53	−1·60	9·28	9·74	− 0·46	0·56	Tinnevelly.
...	...	...	...	...	74	...	·831	...	2·6	...	1	−0·1	0·19	0·37	−0·18	1·44	0·87	+ 0·57	0·14	Anantapur.
...	...	...	...	...	84	...	·961	...	0·2	...	1	+0·2	0·17	0·60	−0·43	2·53	2·69	− 0·16	0·17	Guntur.
...	...	...	...	...	62	...	·552	...	...	...	5	...	1·61	...	...	4·47	...	...	0·81	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	0	−5·6	0	3·35	−3·35	26·74	17·94	+ 8·80	0	Car Nicobar.
																				Kashmir.
...	...	...	83	...	71	...	·517	...	3·0	...	8	+6·3	5·34	1·58	+3·76	12·20	11·94	+ 0·26	1·85	Jammu.
...	...	...	...	...	...	...	...	...	...	...	12	−1·0	13·16	10·14	+3·02	45·72	51·09	− 5·37	3·07	Sonamarg.
...	...	...	20	...	65*	...	·168*	...	5·6	...	4	0	1·05	1·91	−0·89	4·10†	7·05	− 2·95	0·34	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	−0·5	1·21	0·51	+0·70	5·99	5·40	+ 0·59	1·06	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	58	− 3	·475	−·071	...	...	8	+2·5	3·24	3·96	−0·72	4·24	8·49	− 4·25	0·61	Panighatta.
...	...	...	...	...	96	+23	·608	+·183	...	...	9	+2·3	3·53	4·29	−0·76	5·23	9·75	− 4·52	1·09	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	13	...	6·97	11·65	−4·68	31·21	26·05	+ 5·16	1·30	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	16	...	7·44	7·36	+0·08	17·98	17·37	+ 0·61	1·90	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	9·95	...	...	24·17	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	4	...	1·79	...	...	8·86	...	...	0·75	Dharanpur.
...	...	...	...	...	...	...	...	...	...	...	5	+2·7	4·07	1·15	+2·92	10·94	10·52	+ 0·42	1·90	Mussooree.
...	...	...	33	...	...	...	...	...	3·8	0	6	+1·5	4·20	2·18	+2·02	11·54	10·52	+ 1·02	1·78	Poo.
...	...	...	...	...	...	...	...	...	...	...	8	+1·7	6·00	3·25	+2·75	16·44	14·01	+ 2·43	1·26	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Sakion.
...	...	...	...	...	...	...	...	...	2·0	...	4	+2·1	1·20	0·83	+0·37	12·73	7·89	+ 4·84	0·37	Pishin.

* Mean of 19 days.

† Rainfall for December 1917, wanting.

Table

Abstract of observations taken at 8 hrs. at 68 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.											
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi . . .	39·3	38·2*	53·2	...	32·9	...	43·1	...	20·3	58·0	26th & 28th.	26·1	10th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan . . .	74·1	63·5	83·3	...	62·7	...	73·0	...	20·6	97·0	30th	50·0	1st	0	5	4	1	3	14	0	0	3	S 32° E	...
	Kirmanshah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	67·4	62·1	78·7	...	60·3	...	69·5	...	18·4	88·3	...	54·0	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	68·6	62·3	78·5	...	61·6	...	70·1	...	16·9	88·8	26th	51·8	3rd	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah . .	69·2	68·0	82·3	−1·8	60·0	−5·3	71·1	−2·5	22·3	93·3	...	52·4	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah . . .	67·1	60·2	80·1	...	59·1	...	69·6	...	21·0	89·4	...	49·5	...	...	...	...	...	...	...	...	...	...	...	...
	Samarrah . . .	62·9	57·5	75·3	...	55·1	...	65·2	...	20·2	84·5	...	47·3	...	...	...	...	...	...	...	...	...	...	...	...
	Shahroban . . .	63·8	59·5	77·3	...	54·3	...	65·8	...	23·0	89·0	...	46·0	...	...		...	...	...	...	...		...	...	...

* Mean of 28 days.

C—*concluded.*

and fifth class stations in India, etc., in April, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st December, 1917, to 30th April, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	5	...	1·33	...	...	...	...	...	0·37	Ahwaz.
...	...	...	...	...	88*	...	·217*	...	3·0	...	6	...	1·69	3·58	−1·89	4·93	7·69	−2·76	0·60	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	26	+7·0	32·03	22·93	+9·10	41·09	40·38	+0·71	3·14	Pemba.
...	...	...	23	...	58	...	·455	...	...	...	1	...	0·34	...	...	8·02	...	...	0·13	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
5·9	...	...	...	...	76	...	·480	...	4·3	...	8	...	1·04	...	...	...	...	...	0·27	Amarah.
...	...	...	...	...	...	...	...	...	...	...	9	...	3·83	...	...	...	...	...	1·93	Shusbtar.
7·1	...	...	...	...	70	...	·470	...	4·4	...	10	...	1·04	...	...	...	...	...	0·23	Kurna.
3·1	...	...	...	...	73	...	·510	...	4·4	...	7	...	0·88	...	...	...	...	...	0·38	Mohammerah.
...	...	...	...	...	66	...	·430	...	5·1	...	8	...	1·32	...	...	...	...	...	0·56	Nasiriyah.
11·6	...	...	...	...	79	...	·400	...	5·5	...	12	...	2·58	...	...	...	...	...	0·59	Samarrah.
...	...	...	...	...	75	...	·450	...	4·6	...	12	...	3·84	...	...	...	...	...	0·68	Shahroban.

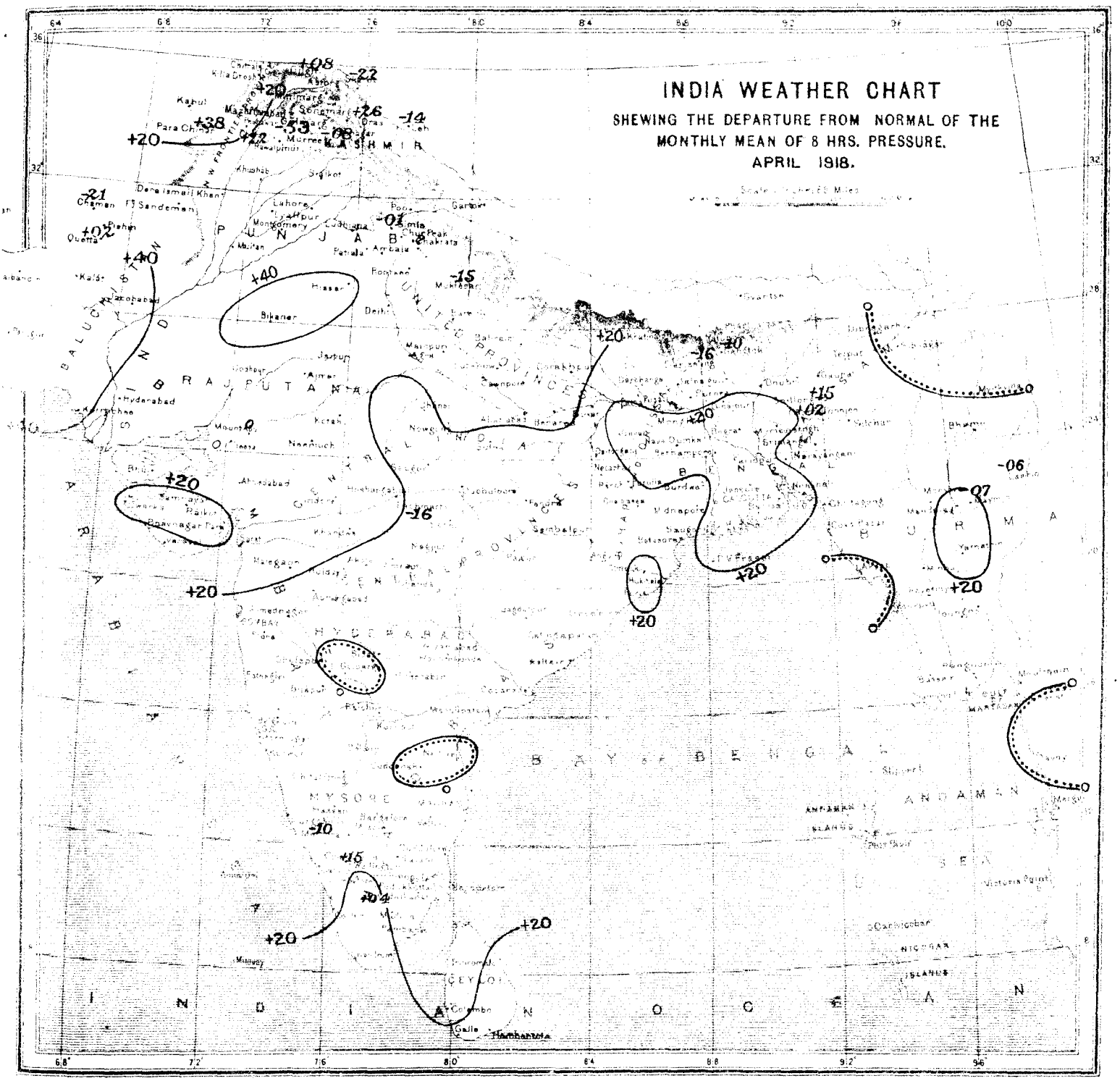
* Mean of 28 days.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of 0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,, 2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,, 5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,, 10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020' or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

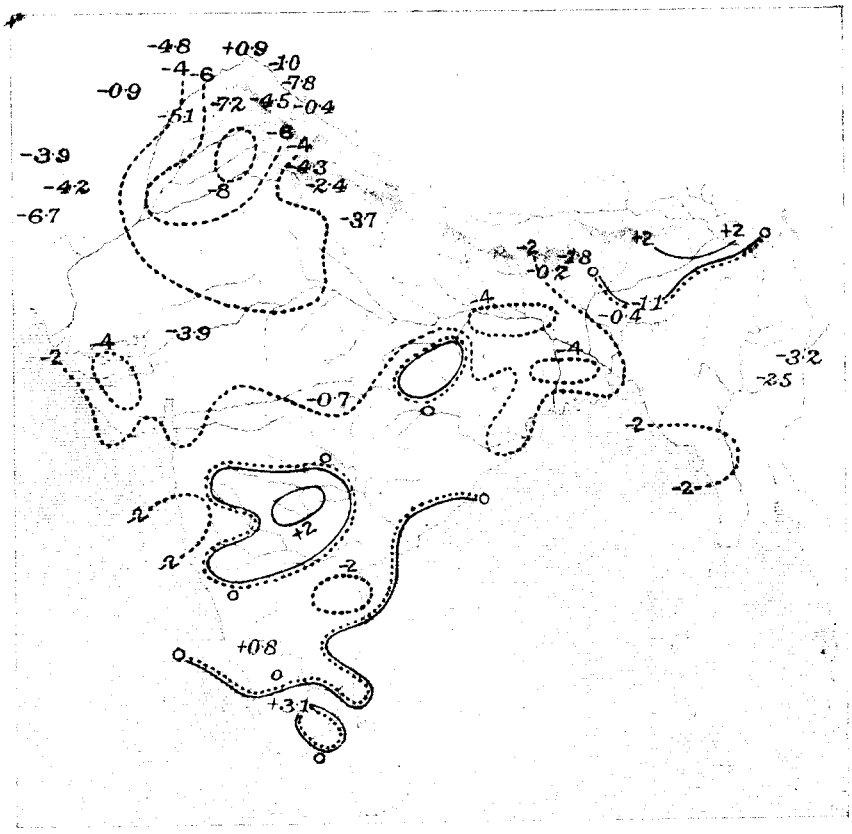


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

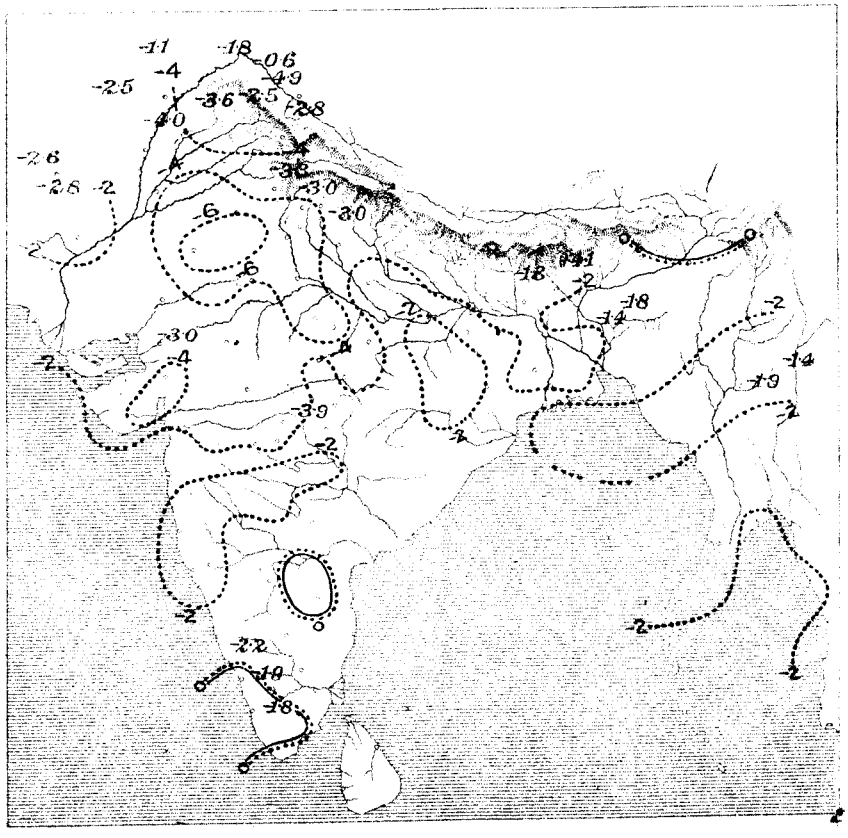


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

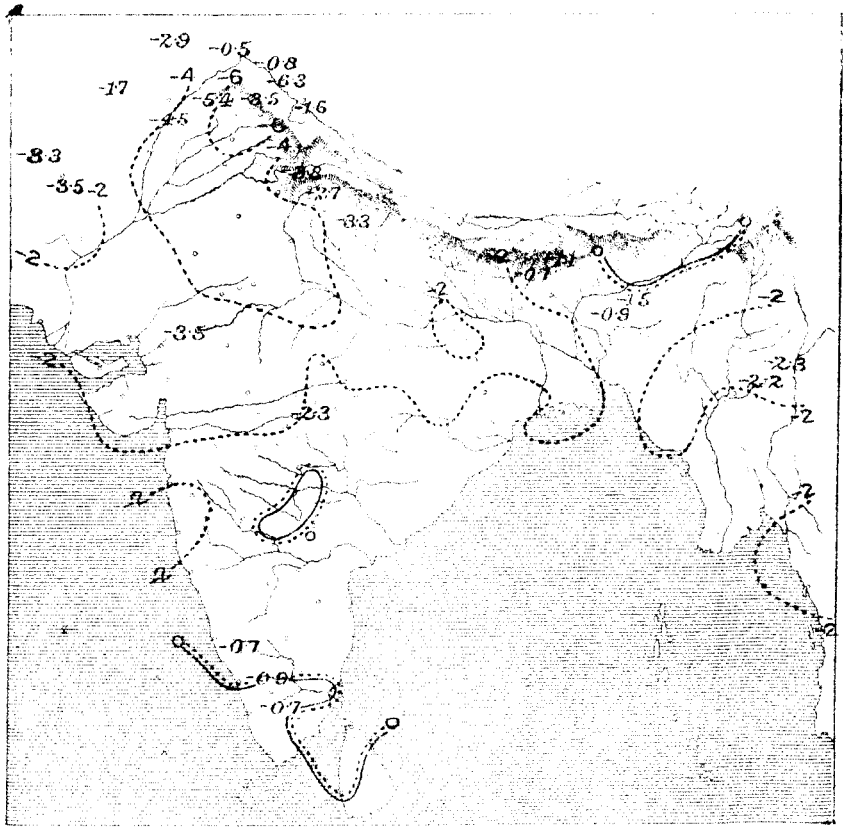


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

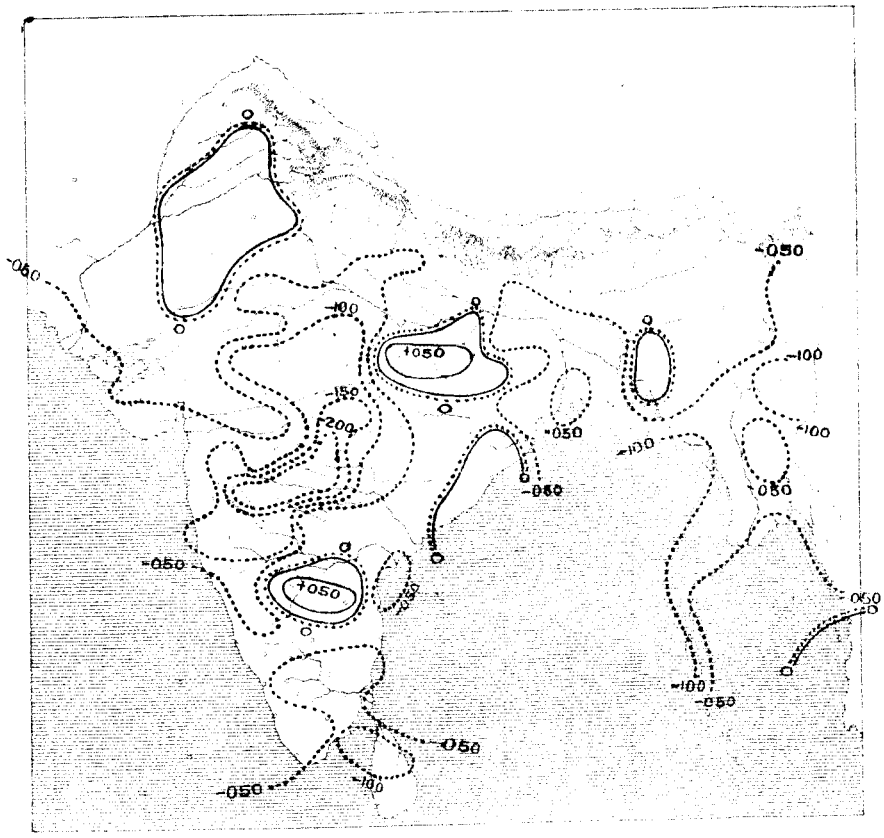


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

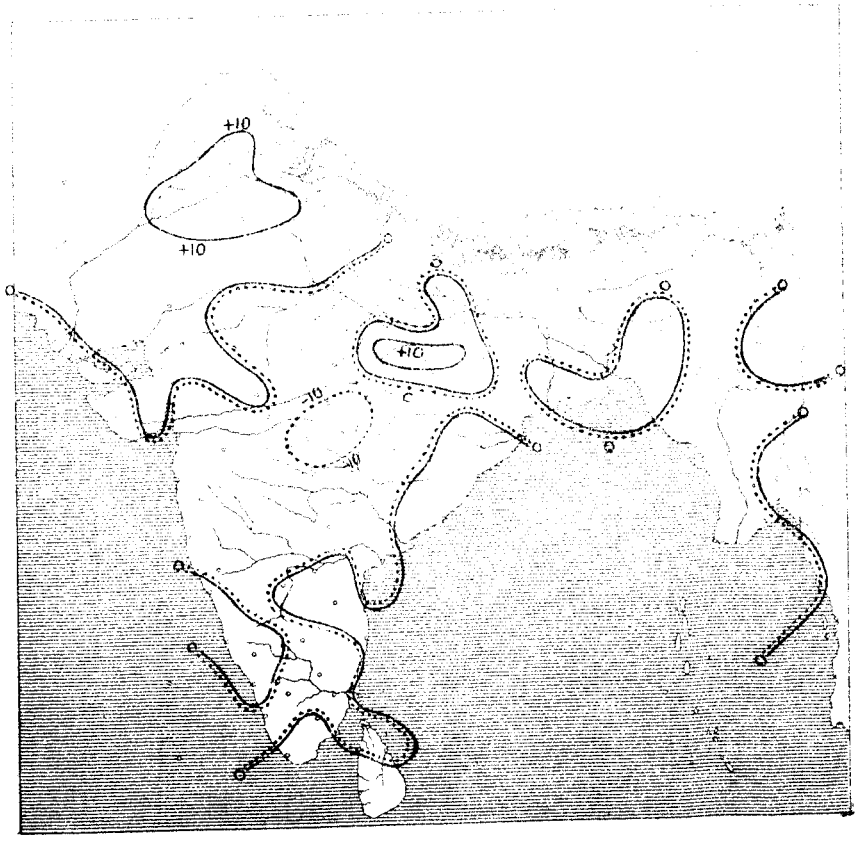


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

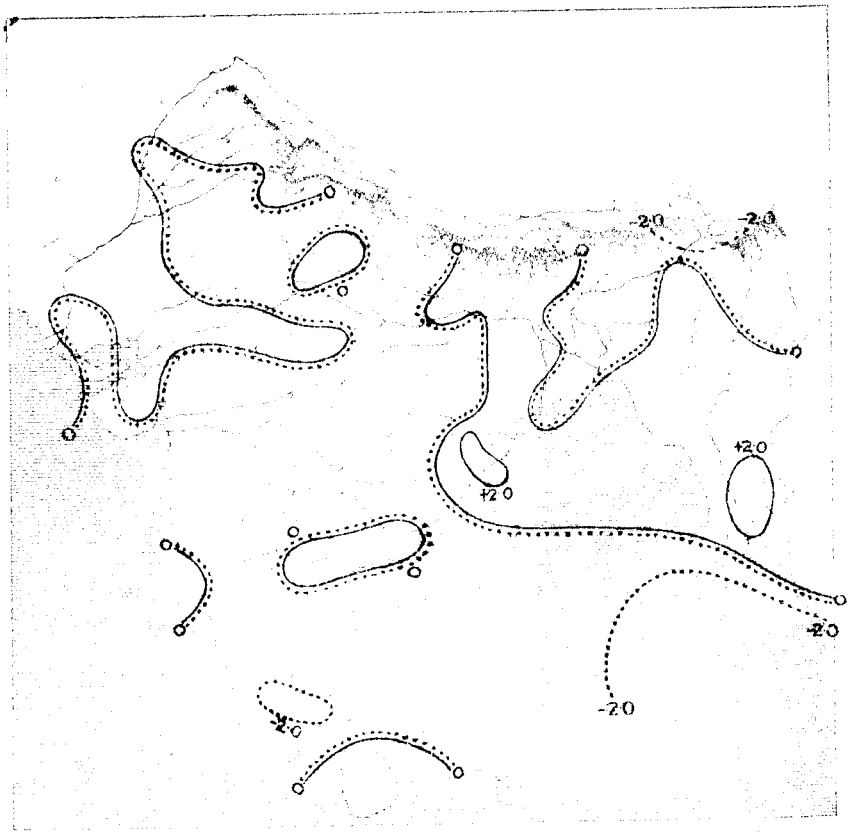
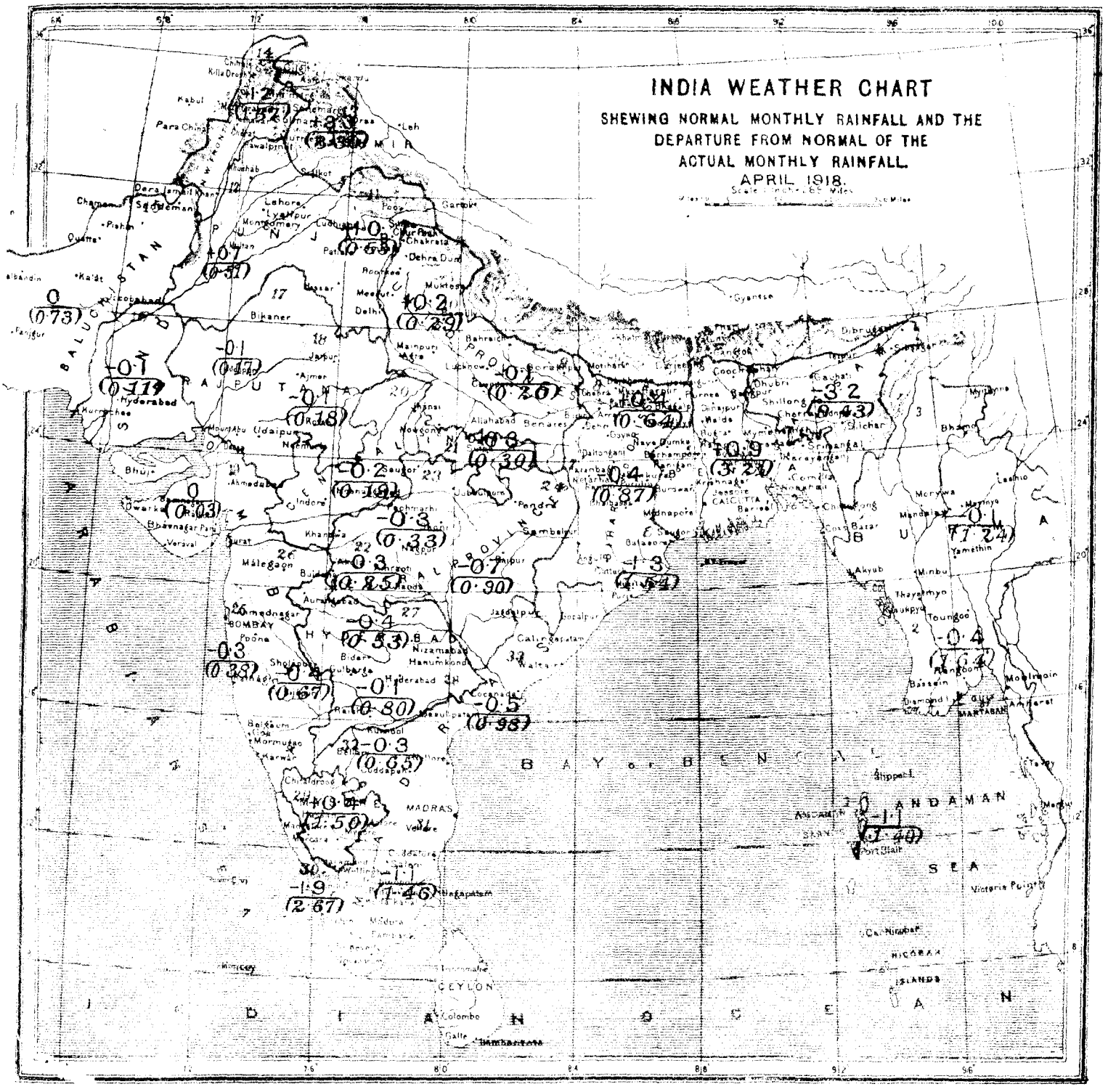


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA

CALCUTTA, MAY, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of May, 1918, is based on observations taken daily at 8 hrs. at 216 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon appeared over three weeks before the usual date on the Malabar coast and over 2 weeks earlier than usual in northeast India. Further, thundershowers had been of fairly frequent occurrence in the earlier part of the month in northeast India and the south of the Peninsula. Consequently excessive rain occurred over the country generally, the only areas with rainfall appreciably in defect being parts of northwest India. Over the country as a whole there was an excess of 72 per cent.

The air was generally damper and the sky more clouded than usual. Maximum and minimum temperatures were higher than usual in Baluchistan, the North-West Frontier Province, Kashmir and the Punjab.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun could not be examined for spots and faculae on three days and prominences could not be recorded on four days during the month.

Sunspots.—Thirty-one new groups of spots were observed as against 26 in April. The daily average number was 5·1 and the daily life of a spot was 5·3 days, the corresponding figures for April being 5·7 and 6·4 respectively. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°–10°	11°–20°	21°–30°	Mean latitude.	Extreme latitudes.
North . . .	4	11	2	13°·1	3° & 24°
South . . .	3	8	3	14°·3	1° & 25°

Prominences.—Fifty-six large, one eruptive, and seven metallic prominences were recorded. The highest was 190″ and was observed on the 16th at latitude +21° west.

Magnetic disturbances.—"Great" disturbances were recorded on the 17th to 18th, and "moderate" disturbances on the following dates:—14th to 16th, 19th to 21st, and 29th to 30th.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$ N; $\lambda = 77° 28' 00''$ E; $h = 2343$ m.

Subsoil Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	C	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·5	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
May 4th	e P	6 23 06	...	...	...	...	...	
	e L	6 30 48	...	...	...	...	...	
	M	6 35 54	...	...	80	...	...	
	F	6 53 42	...	...	...	...	...	
„ 19th	P	...	...	...	...	...	...	
	i L	0 29 24	...	...	...	...	...	
	M	0 32 48	...	...	100	...	...	
	F	0 42 36	...	...	...	...	...	
„ 20th	e P	15 04 30	...	...	...	...	...	
	e L	15 33 06	...	...	...	...	...	
	M	15 43 30	...	...	150	...	...	
	F	17 10 18	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
May 20th	e P	18 14 24	...	...	...	...	...	
	e L	19 11 36	...	...	...	...	...	
	M	19 22 18	...	...	90	...	...	
	F	19 40 12	...	...	...	...	...	
„ 21st	e P	0 49 24	...	...	...	...	...	Widening of line.
	F	0 50 24	...	...	...	...	...	
„ 21st	e P	0 56 36	...	...	...	...	...	Widening of line.
	F	0 59 36	...	...	...	...	...	
„ 21st	e P	1 13 54	...	...	...	...	...	Widening of line.
	F	1 16 30	...	...	...	...	...	
„ 21st	e P	12 24 06	...	...	...	...	...	Widening of line.
	F	12 25 42	...	...	...	...	...	
„ 21st	e P	13 36 06	...	...	...	...	...	Widening of line.
	F	13 38 12	...	...	...	...	...	
„ 21st	e P	13 49 24	...	...	...	...	...	Widening of line.
	F	13 51 24	...	...	...	...	...	
„ 21st	e P	14 33 06	...	...	...	...	...	Widening of line.
	F	14 35 06	...	...	...	...	...	
„ 21st	e P	14 39 42	...	...	...	...	...	Widening of line.
	F	14 41 12	...	...	...	...	...	
„ 21st	e P	15 04 42	...	...	...	...	...	Widening of line.
	F	15 05 42	...	...	...	...	...	
„ 21st	e P	17 55 36	...	...	...	...	...	Widening of line.
	F	18 00 48	...	...	...	...	...	
„ 21st	e P	20 20 00	...	...	...	...	...	Widening of line.
	F	20 22 06	...	...	...	...	...	
„ 22nd	e P	3 33 06	...	...	...	...	...	Widening of line.
	F	3 36 06	...	...	...	...	...	
„ 22nd	e P	6 55 12	...	...	...	...	...	Widening of line.
	F	6 57 30	...	...	...	...	...	
„ 22nd	e P	7 01 30	...	...	...	...	...	Widening of line.
	F	7 03 36	...	...	...	...	...	
„ 22nd	e P	7 38 06	...	...	...	...	...	Widening of line.
	F	7 42 12	...	...	...	...	...	
„ 22nd	e P	16 32 00	...	...	...	...	...	Widening of line.
	F	16 34 06	...	...	...	...	...	
„ 22nd	e P	23 36 36	...	...	...	...	...	Widening of line.
	F	23 39 12	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
May 23rd	e P	1 31 00	...	...	...	...	...	Widening of line.
	F	1 34 00	...	...	...	...	...	
„ 23rd	e P	2 47 18	...	...	...	...	...	Widening of line.
	F	2 50 18	...	...	...	...	...	
„ 23rd	e P	10 48 24	...	...	...	...	...	Widening of line.
	F	10 52 30	...	...	...	..	...	
„ 23rd	e P	13 18 00	...	...	...	...	...	
	e L	13 24 36	...	...	...	...	...	
	M	13 30 18	...	...	50	...	...	
	F	14 35 06	...	...	...	...	...	
„ 24th	e P	2 47 24	...	...	...	...	..	Widening of line.
	F	2 55 30	...	...	...	..	...	
„ 25th	e P	20 11 18	...	...	...	..	...	
	e L	20 54 48	...	...	...	...	...	
	M	20 56 48	...	...	40	...	...	
	F	21 34 48	...	...	..	...	...	
„ 30th	e P	5 31 00	...	...	...	...	...	Widening of line.
	F	5 36 12	...	...	...	...	...	

S. SITARAMAYYA,
Officiating Assistant Director.

BOMBAY OBSERVATORY.

Alibag Magnetic Record.

4. During the month of May, 1918, the traces showed 14 calm days, 16 days of small and 1 day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 3rd, 7th, 9th, 27th and 28th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	C	17	M	25	C
2	S	10	C	18	S	26	C
3	C	11	S	19	S	27	C
4	C	12	S	20	S	28	C
5	S	13	C	21	S	29	S
6	C	14	S	22	S	30	S
7	C	15	S	23	S	31	C
8	C	16	S	24	C		

C=calm ; S=small ; M=moderate ; G=great ; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Mean Easterly declination . . .	0° 28′ 42″.
Horizontal force	0·36890 C.G.S. unit.
Vertical force	0·16973 C.G.S. „
Inclination	24° 42′·4.
Horizontal force range . . .	0·00054 C.G.S. unit.
Horizontal force summed range . .	0·00374 C.G.S. „
Declination range	5′·2.
Declination summed range . . .	20′·7.

(NOTE.—Summed range means sum without regard to sign of 24 ordinates of diurnal inequality.)

Seismic records.

ϕ=18° 53′ 36″ N ; λ=72° 48′ 56″ E ; h=11m. *Subsoil* Trap.

Apparatus.—Omori Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
An :				
Ae :	20	32	...	...
Az :				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
May 19th	P	0 28 23	...	...	...	...	...	
	M	0 34 52	...	...	25	...	...	
„ 20th	P	14 54 18	...	...	...	...	...	
	M	15 36 57	...	...	50	...	...	
„ 20th	P	18 14 41	...	...	...	...	...	
	M	19 9 40	...	...	35	...	...	
„ 23rd	P	13 2 26	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.

N. A. F. MOOS,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\Phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 6{\cdot}4$m. *Subsoil* Alluvial.

Apparatus.—Two Omori Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
May 19th	P	0 27 24	...	...	...	...	...	
	S	0 29 00	...	...	...	...	...	
	F	0 57 36	...	...	...	...	...	
„ 20th	P	18 13 54	...	...	...	...	...	
	F	18 37 54	...	...	...	...	...	
„ 21st	P	5 5 18	...	..	...	...	...	
	S	5 6 18	...	...	...	...	...	
	L	5 7 30	...	...	...	...	...	
	M	5 8 30	...	121	...	...	...	
	F	5 28 54	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\Phi = 31° 6'$ N; $\lambda = 77° 11'$ E; $h = 2{\cdot}1$ *km. Subsoil* Rock.

Apparatus.—Two Omori Ewing Horizontal Pendulum Seismographs (masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
May 19th	e P	0 29 18	...	...	...	...	...	
	e S	0 32 24	...	...	...	...	...	
	e L	0 35 12	15	...	...	...	...	
	M	0 35 24	...	46	...	...	...	
	F	0 52 42	...	...	...	...	...	
„ 20th	e	14 34 48	...	...	...	...	...	
	M	15 34 48	...	429	...	...	...	
	F	16 34 48	...	...	...	...	...	Time marker not marking satisfactorily.
„ 20th	e	19 34 12	...	...	...	...	...	
	F	19 34 48	...	...	...	...	...	Tremors' Time marker not working satisfactorily.
„ 23rd	e	12 56 42	...	...	...	...	...	
	M	13 08 42	...	68	...	...	...	
	F	13 54 36	...	...	...	...	...	

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m.	Sec.			
Bushire (Persia) . .	May 4th	0 10	15	5	1	
Kabul (Afghanistan) .	„ 4th	11 39	80	4	2	
Bushire (Persia) . .	„ 4th	19 40	10	3	1	
Drosh . . .	„ 5th	11 32	6	6	2	
Nathiagali (Murree Hills)	„ 17th	21 05	40	4	1	
Waltair . . .	„ 19th	0 24	85	5	2	
Kyaukpyu . . .	„ 21st	5 50	15	5	1	
Akyab . . .	„ 21st	6 05	10	...	1	

S. SITARAMAYYA.

Weather in the Indian Ocean.

7. Pressure was in defect in India, but the deficiency was much less in south India than in northwest India. In the Indian Ocean stations pressure was below normal only at Seychelles ; it was in slight excess at Zanzibar and was normal at Mauritius. Wind velocity and direction differed little from the average except at Seychelles where the velocity was much higher than usual. Rainfall was normal at Mauritius and below it at Zanzibar and Seychelles, the deficiency at the last station being nearly 50 per cent.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inch.	—·001	+·010	—·021
Actual mean wind direction . .	S 71 E	S 19 W	S 39 E
Normal mean wind direction . .	S 63 E	S 7 W	S 43 E
Actual mean wind velocity (miles per diem).	178	132	178
Normal mean wind velocity (miles per diem).	178	142	120
Rainfall departure from normal in inches	+0·18	—1·31	—2·92

Depressions and cyclonic storms.

8. A depression had formed at the head of the Bay on the morning of the 23rd with centre at about lat. 20°, long. 89°. The depression was then feeble, but heavy rain was falling to the east of that position. The intensity began to increase by noon, and S.S. *Querimba* recorded winds of force 8 on the 24th. Moving eastwards the storm crossed the coast to the north of Akyab on the 25th, causing heavy rain in that neighbourhood, and disappeared in Upper Burma on the 27th ; fairly widespread, and in places heavy, rain fell in the latter area on several days, resulting in serious floods in the Irrawadi.

According to newspaper reports a severe tornado passed over some villages in the Mymensingh district on the 5th causing some loss of life and property.

Pressure.

9. Pressure was in defect everywhere, the mean deficiency averaged over the plains of India being as much as 0·070″; the deficiency was greatest in the North-West Frontier Province where it reached to 0·14″ and least in south Madras and Burma. Pressure was mostly below normal at the level of the hill stations also, but in north-west India the departures from normal on the hills were smaller than in the plains.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·042
Assam	—·076
Bengal	—·066
Bihar and Orissa	—·063
United Provinces	—·075
Punjab	—·098
North-West Frontier Province	—·141
Sind	—·083
Rajputana	—·072
Bombay	—·083
Central India	—·083
Central Provinces	—·075
Hyderabad	—·057
Mysore	—·059
Madras	—·046

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B – A.
	″		″	″
Quetta	—·050	Jacobabad	—·085	—·035
Leh	+·010	Lahore	—·103	—·113
Murree	—·083	Peshawar	—·138	—·055
Simla	—·023	Ludhiana	—·082	—·059
Muktesar	—·063	Bareilly	—·074	—·011
Darjiling	—·043	Dhubri	—·072	—·029
Mount Abu	—·071	Deesa	—·069	+·002
Pachmarhi	—·091	Khandwa	—·074	+·017
Kodaikanal	—·064	Madura	—·037	+·027

Temperature.

10. Maximum and minimum temperatures were higher than usual in Assam, the United Provinces West, the Punjab, Kashmir, the North-West Frontier Province and Baluchistan. Over the rest of the country generally maximum temperature was well below normal; minimum temperature also tended to be low, but the departures from normal were on the whole not appreciable. These conditions obtained during almost the whole month, and agreed closely with the distribution of rainfall over the country.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	86·9	77·5	82·2	9·4	—1·9	—1·5	—0·4
2. Lower Burma	87·1	75·1	81·1	12·0	—3·3	—1·5	—1·8
3. Upper Burma	91·0	73·9	82·4	17·1	—3·7	—0·9	—2·8
4. Assam	89·4	74·0	81·7	15·4	+2·1	+2·1	0
5. Bengal	89·9	75·9	82·9	14·0	—2·5	0	—2·5
6. Orissa	96·9	78·1	87·5	18·7	—3·0	—1·7	—1·3
7. Chota Nagpur	99·4	77·1	88·3	22·3	—3·6	—0·4	—3·2
8. Bihar	95·3	77·4	86·4	17·8	—4·2	+0·5	—4·7
9. United Provinces, East	101·6	80·3	91·0	21·3	—2·8	+2·2	—5·0

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
10. United Provinces, West	107·5	82·6	95·1	24·8	+1·9	+3·6	—1·7
11. Punjab, East and North	107·2	78·4	92·8	28·8	+3·8	+3·3	+0·5
12. Do., Southwest	110·2	80·8	95·5	29·3	+4·1	+4·0	+0·1
13. Kashmir	81·7	52·0	66·8	29·7	+8·6	+4·0	+4·6
14. North-West Frontier Province	110·0	76·3	93·1	33·7	+9·1	+4·1	+5·0
15. Baluchistan	95·9	65·9	80·9	30·0	+6·2	+4·1	+2·1
16. Sind	103·0	79·6	91·3	23·5	+0·4	+1·3	—0·9
17. Rajputana, West	108·7	81·4	95·1	27·3	+1·7	—0·1	+1·8
18. Do., East	107·4	84·0	95·7	23·4	+1·0	+2·7	—1·7
19. Gujarat	98·4	78·9	88·6	19·6	—1·1	+1·1	—2·2
20. Central India, West	104·2	78·5	91·3	25·7	+0·9	+1·7	—0·8
21. Do. do., East	108·1	82·9	95·5	25·2	+1·6	+3·1	—1·5
22. Berar	104·0	78·9	91·5	25·1	—1·8	—0·8	—1·0
23. Central Provinces, West	105·6	81·3	93·5	24·3	—0·7	+1·7	—2·4
24. Do. do., East	101·8	77·9	89·9	23·9	—2·7	+0·1	—2·8
25. Konkan	87·8	78·7	83·6	9·1	—2·5	—1·6	—0·9
26. Bombay Deccan	96·6	72·4	84·5	24·2	—4·1	—0·6	—3·5
27. Hyderabad, North	102·1	76·3	89·3	25·8	—3·1	—1·9	—1·2
28. Do., South	99·1	76·5	87·8	22·6	—5·0	—3·6	—1·4
29. Mysore	86·9	68·7	77·8	18·2	—4·7	—0·6	—4·1
30. Malabar	85·2	76·0	80·6	9·2	—4·3	—2·1	—2·2
31. Madras, Southeast	95·4	77·6	86·5	17·8	—2·9	—0·6	—2·3
32. Do., Deccan	98·0	78·8	88·4	19·2	—5·6	—1·9	—3·7
33. Do., Coast, North	94·9	79·4	87·2	15·5	—2·2	—1·6	—0·6

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—3·5	—1·3	—2·4
Assam	+2·1	+2·1	+2·1
Bengal	—2·5	0	—1·3
Bihar and Orissa	—3·7	—0·5	—2·1
United Provinces	—0·7	+2·8	+1·1
Punjab	+3·9	+3·5	+3·7
North-West Frontier Province	+9·1	+4·1	+6·5

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+0·4	+1·3	+0·8
Rajputana	+1·3	+1·4	+1·4
Bombay	—2·4	0	—1·2
Central India	+1·2	+2·4	+1·8
Central Provinces	—1·5	+0·7	—0·4
Hyderabad	—4·4	—3·0	—3·7
Mysore	—4·7	—0·6	—2·7
Madras	—3·3	—1·3	—2·3

Winds.

11. Winds were weaker and less steady than usual in Bengal, the North-West Frontier Province, Bombay and Hyderabad; they were well above average strength in Burma, Rajputana, the Central Provinces, Mysore and Madras, and of more than the average steadiness in Burma, Assam, the United Provinces, the Punjab, Sind, Rajputana and the Central Provinces.

Wind directions were on the whole normal, but in the Gangetic plains the easterly component was slightly stronger than usual; there was also an abnormal easterly component at Darjiling and at Tavoy and Mergui.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+1·1	+ 9
Assam	—0·6	+ 7
Bengal	—1·4	—18
Bihar and Orissa	—0·2	— 1
United Provinces	+0·2	+30
Punjab	0	+24
North-West Frontier Province	—1·3	— 9
Sind	—1·1	+12
Rajputana	+0·9	+15
Bombay	—2·0	—17
Central India	+0·5	0
Central Provinces	+0·8	+10
Hyderabad	—0·8	— 9
Mysore	+1·5	—11
Madras	+1·0	— 6

Humidity and cloud.

12. The air was appreciably damper than usual in Bihar and Orissa, the United Provinces, Sind, Rajputana, Bombay, Central India, the Central Provinces, Hyderabad and Mysore, and drier in the North-West Frontier Province. Cloud amount was about normal in the United Provinces and Sind, below it in Assam, the Punjab and the North-West Frontier Province, and above it everywhere else.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	84	+ 3	·841	—·020	7·3	+1·5
Assam	85	— 3	·834	+·029	5·4	—1·0
Bengal	84	+ 2	·884	—·007	6·0	+0·8
Bihar and Orissa	71	+ 5	·814	+·026	5·1	+1·7
United Provinces	52	+ 6	·694	+·097	1·8	+0·2
Punjab	40	+ 1	·573	+·082	0·5	—0·8
North-West Frontier Province.	39	— 7	·545	+·002	0·1	—1·5
Sind	66	+ 8	·835	+·108	1·8	+0·2
Rajputana	43	+ 4	·595	+·064	1·4	+0·4
Bombay	70	+ 5	·780	+·018	4·5	+1·9
Central India	46	+ 5	·619	+·062	2·3	+0·7
Central Provinces	48	+ 7	·602	+·076	3·7	+1·5
Hyderabad	64	+14	·691	+·089	4·7	+1·6
Mysore	79	+ 4	·654	—·012	6·7	+1·6
Madras	73	+ 2	·829	—·021	5·7	+1·2

Rainfall.

13. North-west India with the exception of Gujarat had hardly any rain, and rainfall was in defect also in Assam and the United Provinces; but in every other division in the country the fall was abundant, the excess varying from three to over eight times the normal amount in the Central Provinces, the Konkan, Hyderabad and Malabar.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	20·5	13·9	17·15	8·97	+8·18	+ 91
2. Lower Burma	19·5	13·1	27·00	12·96	+14·04	+108
3. Upper Burma	11·7	7·8	10·33	5·84	+4·49	+ 77
4. Assam	12·5	14·3	11·09	12·58	—1·49	— 12
5. Bengal	10·3	9·0	10·62	8·07	+2·55	+ 32
6. Orissa	7·8	4·5	5·14	3·10	+2·04	+ 66
7. Chota Nagpur	4·6	3·3	2·51	1·93	+0·58	+ 30
8. Bihar	4·4	3·2	3·56	2·37	+1·19	+ 50
9. United Provinces, East	1·3	1·2	0·60	0·67	—0·07	— 10
10. Do. do., West	0·7	1·4	0·34	0·64	—0·30	— 47
11. Punjab, East and North	0·1	1·4	0·05	0·61	—0·56	— 92
12. Do., South-west	0	0·9	0·01	0·36	—0·35	— 97
13. Kashmir	0·5	3·8	0·16	2·00	—1·84	— 92
14. North-West Frontier Province	0·2	1·8	0·05	0·77	—0·72	— 94
15. Baluchistan	0	0·5	0·02	0·15	—0·13	— 87
16. Sind	0	0·2	0	0·10	—0·10	—100
17. Rajputana, West	0·1	0·5	0·04	0·27	—0·23	— 85
18. Do., East	0·2	0·9	0·05	0·41	—0·36	— 88
19. Gujarat	0·9	0·3	0·43	0·17	+0·26	+153
20. Central India, West	0·7	0·6	0·34	0·27	+0·07	+ 26
21. Do., East	0·9	0·6	0·35	0·31	+0·04	+ 13
22. Berar	4·6	0·9	3·04	0·42	+2·62	+624
23. Central Provinces, West	2·8	0·9	1·62	0·39	+1·23	+315
24. Do., East	4·2	1·2	2·25	0·59	+1·66	+281
25. Konkan	10·9	1·7	12·69	1·30	+9·39	+722
26. Bombay Deccan	6·4	2·3	3·72	1·27	+2·45	+193
27. Hyderabad, North	6·2	1·4	4·05	0·63	+3·42	+543
28. Do., South	5·9	1·8	3·67	0·89	+2·78	+312
29. Mysore	7·3	5·6	4·02	3·56	+0·46	+ 13
30. Malabar	22·0	7·7	31·09	7·02	+24·07	+343
31. Madras, South-east	4·4	3·8	2·86	2·61	+0·25	+ 10
32. Do., Deccan	4·6	2·9	2·94	1·61	+1·33	+ 83
33. Do., Coast, North	5·1	3·0	3·31	2·02	+1·29	+ 64

TABLE 16.

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	16·88	8·64	+8·24	+ 95
Assam	11·09	12·58	—1·49	— 12
Bengal	10·62	8·07	+2·55	+ 32
Bihar and Orissa	3·67	2·43	+1·24	+ 51
United Provinces	0·46	0·66	—0·20	— 30
Punjab	0·04	0·55	—0·51	— 93
North-West Frontier Province	0·05	0·77	—0·72	— 94
Sind	0	0·10	—0·10	—100
Rajputana	0·05	0·37	—0·32	— 86
Bombay	4·27	0·92	+3·35	+364
Central India	0·34	0·28	+0·06	+ 21
Central Provinces	2·25	0·49	+1·76	+359
Hyderabad	3·86	0·75	+3·11	+415
Mysore	4·02	3·56	+0·46	+ 13
Madras	5·57	2·72	+2·85	+105
Mean of India	4·65	2·71	+1·94	+ 72

Snowfall.

I.—PERSIA.

14. *Meshed.*—Snow fell to a depth of 2½ feet.

II.—TURKISTAN AND AFGHANISTAN.

The fall in Turkistan and north-west Afghanistan was normal.

III.—NORTH-WEST FRONTIER PROVINCE.

(*a*) ***Kurrum.***—There was slightly more than the average fall on the hills near Parachinar.

(*b*) *Wano.*—
(*c*) *Tochi.*—
(*d*) *Near Dera Ismail Khan.*—
(*e*) *Kohat.*—
(*f*) *Drosh.*—
(*g*) *Khyber.*—
(*h*) *Malakand.*—
} No snow fell.

(*i*) *Hazara.*—Between 1 and 2 inches of snow fell in the Kagan valley at heights from 11,000 to 17,000 feet.

IV.—KASHMIR.

There was no fresh fall either in the valley or on the hills and none at or in the vicinity of Sonamarg, Dras, Skardu and Kargil. The depth of the old accumulations at the end of the month near Kargil was—

Archulla	...	... 8 inches
Nakthulla	...	... 3 ,,
Samenulla	...	... 2 ,,
Barulla	...	... 1 inch.

Leh.—There was no fesh fall and old accumulations were diminishing rapidly. The Karakoram passes opened exceptionally early, but the country there was not free from snow at the end of the month on account of the heavy fall in the previous autumn.

V.—PUNJAB.

(*a*) *Chamba.*—No snow fell in Chamba territory and the old accumulation was lying at a higher level than usual.

(*b*) *Kulu* (*Kangra*).—There was practically no snowfall. The accumulation till the end of April was heavy but a great deal of it melted away in May. About the 25th of the month there was a deposit of 5 to 7 feet on the level of the Rohtang pass (13,000 feet), but hardly any below 11,000 feet except in sheltered places.

The depth of the accumulations about the 25th of the month on various mountains in the Kulu sub-division were as follows:—

TABLE 17.

Kulu Tehsil.		Saraj Tehsil.	
Rohtang	... 6 feet	Sirikhand	... 5 feet.
Hamta	... 8 ,,	Chul	... 1 foot.
Barsai	... 2 ,,	Gargarasan	... 2 feet.
Bojadhar	... 2½ ,,	Supakun	... 2 ,,
Lohri Achri	... 2 ,,	Bushleo	... 1 foot.
		Placha	... 1 ,,
		Tirath	... 3 feet.

(c). *Kilba (Simla Hills).*—No snow fell.

VI.—UNITED PROVINCES.

(a) *Garhwal.*—Snowfall was below normal.

(b) *Almora.*—

TABLE 18.

Actual falls.

Locality.	Depth.		Distance from perpetual snowline to which the snow descended.
	Feet.	Inches.	
Malla Danpur	1	7	3 or 4 miles.
Malla Darma	3	0	7 miles.
Malla Johar	*Nil*		.....
Malla Byans	10	6	2 miles.
Malla Chaudas	1	10	¾ mile.

TABLE 19.

Name of pass or peak.	Depth of accumulations at the end of the month.			
	Reported.		Normal.	
	Feet.	Inches.	Feet	Inches.
Nuwo pass	13	0	20	4
Lipulokh pass	12	6	8	4
Lampia „	16	6	10	6
Binkarn „	6	0	13	10
Untadhura	3	0	8	5
Ralamdhura	2	0	5	10
Nandakot	1	7	2	0
Puwalidwar	1	7	2	0

VII.—EASTERN HIMALAYAS.

Sikkim.—No snow fell at Gangtok or Yatung.

SUMMARY.

15. In Turkistan, Persia, Afghanistan, the hills near Parachinar and in the Kumaon hills there was about the normal amount of snowfall; elsewhere the fall was below normal.

S. SITARAMAYYA.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in May, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·650	29·533	·117	29·597	−·068	29·561	92·1	76·6	15·5	96·6	70·0	26·6	86·2	87·5	84·1	−1·6	74·2	79·5	79·3	77·7
	VI.—Punjab.																					
11	Lahore . . .	702	28·818	28·719	·099	28·793	−·112	29·424	109·6	78·5	31·1	115·8	70·3	45·5	98·9	109·2	93·8	+4·9	68·3	75·7	77·0	73·7
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·231	28·121	·110	28·171	−·073	29·469	108·5	81·9	26·6	114·0	73·8	40·2	98·0	107·2	96·4	+2·8	67·9	72·9	72·9	71·2
	X.—Bombay.																					
25	Bombay . .	37	29·732	29·634	·098	29·694	−·080	29·671	89·5	79·9	9·6	92·5	76·3	16·2	84·7	86·4	83·6	−1·0	75·3	78·7	79·5	77·8
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·861	26·757	·104	26·816	−·027	29·623	87·1	68·0	19·1	95·3	65·2	30·1	78·9	83·8	75·9	−2·6	65·5	70·4	70·3	68·7
	XV.—Madras.																					
31	Pudukkottai . .	318	29·492	29·367	·125	29·429		29·670	99·1	78·6	20·5	105·5	72·4	33·1	89·5	95·2	88·8			74·9	75·5	
	Madras . .	22	29·742	29·628	·114	29·693	−·040	29·646	96·3	79·5	16·8	102·8	72·7	30·1	91·1	90·7	86·8	−1·9	76·0	79·5	80·6	78·7
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·541	25·472	·069	25·503	+·010	25·455	81·3	64·6	16·7	91·4	55·2	36·2	74·5	77·0	73·1	+2·3	62·0	67·6	68·1	65·9
	Kodaikanal . .	7,688	22·786	22·723	·063	22·755		22·689	66·7	53·4	13·3	74·4	49·8	24·6	63·3	60·7	60·0		50·5	57·6	57·3	55·1
	Extra India.																					
	Seychelles . .	15	29·961	29·877	·034	29·920	−·021†	29·858	83·8	79·4	4·4	85·3	77·6	7·7	82·3	83·2	80·2	+0·7†	72·0	76·1	76·7	74·9
	Mauritius . .	181				29·882	−·012	29·950	77·9	64·4	13·5	81·9	57·4	24·5			70·9	−1·2				66·6

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
† Departure from old normal.

A.

at 11 stations in India, etc., in May, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·816	·920	·892	·885	+·002	89	74	69	80	+ 5	5·7	6·9	6·3	+2·0	2	4	4	4	13	16	15	1	3	S 5° E	S 9° W	43	67	94	123	8·19	3·61	Calcutta . .	5
																															VI.—Punjab.	
·556	·575	·504	·556	+·102	57	32	20	37	+ 1	0	0·5	0·3	−1·9	14	1	6	3	9	0	7	9	13	N 72° W	N 12° E	16	18	36	56	0	0	Lahore . .	11
																															IX.—Rajputana.	
·509	·500	·378	·469	+·021	47	28	16	32	− 3	1·0	3·3	2·1	−0·2	0	1	0	0	0	0	2	34	25	N 72° W	N 72° W	90	48	134	110	0	0	Jaipur . .	18
																															X.—Bombay.	
·815	·897	·912	·888	−·001	80	76	73	79	+ 3	5·5	4·7	5·1	+2·5	0	1	0	2	4	11	10	27	7	S 67° W	N 83° W	60	71	138	177	11·00	3·29	Bombay . .	25
																															XIV.—Mysore.	
·597	·612	·585	·622	+ ·017	88	65	52	70	+ 7	0·2	7·1	6·7		0	1		2	5	3	21	23	4	S 63° W	S 81° W	58	66	193	110	7·84	2·05	Bangalore . .	19
																															XV.—Madras.	
	·667	·617				49	38			5·4	6·7	6·1		8	1	1	3	3	6	14	16	10	S 72° W		47		123		1·96	1·75	Pulukkottai .	31
·818	·846	·906	·881	−·015	85	59	63	71	+ 1	4·2	4·9	4·5	+0·8	0	0	0	0	19	13	9	18	3	S 23° W	S 9° E	54	66	131	159	5·80	3·16	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·526	·598	·589	·565	+·075	86	71	64	74	+ 6	6·1	6·9	6·7	+1·5	0	11	0	25	0	1	0	25	0	N	S 89° W	3	39	11	31	6·87	1·06	Katmandu.	
·338	·316	·435	·396		83	79	83	80		6·7	8·6	7·7		0	0	2	3	7	2	5	22	12	N 71° W		42		242		5·14	1·67	Kodaikanal.	
																															Extra India.	
·683	·816	·831	·790	−·056	68	74	73	74	− 6	4·7	5·8	5·3	+0·2†	1	0	0	1	52	5	2	1	0	S 39° E	S 43° E	90	59	178	120	3·15	1·21	Seychelles.	
			·783	−·031				78	0			5·3	+0·7										S 71° E	S 63° E			178	178	3·73	2·03	Mauritius.	

Table B.—Abstract of observations taken at 8 hrs. at 216 stations in India, etc., in May, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·042	88·7	—3·5	74·6	—1·3	81·7	—2·4	14·1	+1·1	+ 9	84	+ 3	·841	—·020	7·3	+1·5	16·88	8·64	+8·24
Assam	—·076	89·4	+2·1	74·0	+2·1	81·7	+2·1	15·4	—0·6	+ 7	85	— 3	·834	+·029	5·4	—1·0	11·09	12·58	-1·49
Bengal	—·066	89·9	—2·5	75·9	0	82·9	—1·3	14·0	—1·4	-18	84	+ 2	·884	—·007	6·0	+0·8	10·62	8·07	+2·55
Bihar and Orissa	—·063	96·7	- 3·7	77·6	—0·5	87·2	—2·1	19·2	—0·2	— 1	71	+ 5	·814	+·026	5·1	+1·7	3·67	2·43	+1·24
United Provinces of Agra and Oudh	—·075	104·3	—0·7	81·4	+2·8	92·8	+1·1	22·9	+0·2	+20	52	+ 6	·694	+·097	1·8	+0·2	0·46	0·66	—0·20
Punjab	—·098	108·2	+3·9	79·2	+3·5	93·7	+3·7	29·0	0	+24	40	+ 1	·573	+·082	0·5	—0·8	0·04	0·55	-0·51
North-West Frontier Province	—·141	110·0	+9·1	76·3	+4·1	93·1	+6·5	33·7	—1·3	— 9	39	— 7	·545	+·002	0·1	—1·5	0·05	0·77	—0·72
Sind	—·083	103·0	+0·4	79·6	+1·3	91·3	+0·8	23·5	—1·1	+12	66	+ 8	·835	+·108	1·8	+0·2	0	0·10	—0·10
Rajputana	—·072	107·9	+1·3	83·0	+1·4	95·4	+1·4	24·9	+0·9	+15	43	+ 4	·595	+·064	1·4	+0·4	0·05	0·37	—0·32
Bombay	—·083	95·6	—2·4	76·8	0	86·3	—1·2	18·8	—2·0	—17	70	+ 5	·780	+·018	4·5	+1·9	4·27	0·92	+3·35
Central India	—·083	106·1	+1·2	80·7	+2·4	93·4	+1·6	25·5	+0·5	0	46	+ 5	·619	+·062	2·3	+0·7	0·34	0·28	+0·06
Central Provinces	—·075	104·1	—1·5	79·7	+0·7	91·9	—0·4	24·3	+0·8	+10	48	+ 7	·602	+·076	3·7	+1·5	2·25	0·49	+1·76
Hyderabad	—·057	100·1	—1·4	76·5	—3·0	88·3	—3·7	23·7	—0·8	— 9	64	+14	·691	+·089	4·7	+1·6	3·86	0·75	+3·11
Mysore	—·059	86·9	—4·7	69·7	—0·6	77·8	—2·7	18·2	+1·5	-11	79	+ 4	·654	—·012	6·7	+1·6	4·02	3·56	+0·46
Madras	—·046	93·8	—3·3	78·0	—1·3	85·9	—2·3	15·9	+1·0	— 6	73	+ 2	·829	—·021	5·7	+1·2	5·57	2·72	+2·85

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·730		29·807	29·798	30th	29·693	22nd	79·8	78·5	84·1		75·5		79·8		8·6	87·6	7th	73·0	21st & 22nd.
	Mergui	66	29·801	−·018	29·797	29·865	30th	29·753	21st & 22nd.	78·2	76·1	85·4	−3·6	74·1	−0·2	79·7	−1·9	11·3	92·5	3rd	71·7	17th
	Tavoy	19	29·835	−·036	29·786	29·890	30th	29·775	22nd	78·7	76·3	87·2	−1·3	72·3	−3·1?	79·7	−2·2?	14·9	95·0	6th	70·8	5th
	Moulmein	94	29·745	−·021	29·778	29·809	4th	29·646	26th	77·9	75·7	86·2	−3·0	74·4	−1·4	80·3	−2·2	11·8	95·0	2nd	71·9	3rd & 4th.
	Rangoon	18	29·793	−·031	29·749	29·875	4th	29·654	26th	80·8	77·7	88·6	−3·1	75·9	−1·4	82·2	−2·3	12·7	97·6	1st	72·9	27th
	Bassein	27	29·772	−·039	29·736	29·867	7th	29·642	26th	80·6	77·8	89·2	−2·4	76·1	−1·2	82·6	−1·8	13·1	100·0	2nd	73·9	26th & 28th.
	Diamond Island	41	29·739	−·059	29·715	29·829	6th	29·622	26th	82·7	78·7	86·7	−1·8	77·5	−1·4	82·1	−1·6	9·2	90·2	5th	71·2	20th
	Toungoo	164	29·634	−·029	29·740	29·724	12th	29·481	26th	80·2	76·9	91·2	−4·6	74·8	−1·8	83·0	−3·2	16·4	102·1	1st	71·1	27th
	Kyaukpyu	18	29·731		29·689	29·847	4th & 6th.	29·509	25th	80·3	76·7	86·5		75·9		81·3		10·6	92·9	14th	71·6	9th & 11th.
	Akyab	20	29·702	−·088	29·663	29·833	6th	29·443	25th	80·4	77·4	86·4	−4·4	74·8	−3·3	80·6	−3·9	11·6	92·4	6th	71·0	10th
3	Minbu	*165*	29·579	−·053	29·687	29·683	6th	29·387	25th	81·6	75·6	94·3	−4·4	77·4	−1·2	85·8	−2·8	16·9	103·5	2nd	72·2	28th
—	Yamethin	644	29·121	−·040	29·712	29·224	6th	28·899	26th	80·7	74·7	94·2	−2·4	75·3	−1·3	84·8	−1·9	18·9	101·6	2nd	72·0	22nd
	Mandalay	250	29·511	−·035	29·707	29·626	6th	29·347	26th	81·0	76·0	96·6	−3·0	77·6	−1·5	87·1	−2·3	19·0	107·2	1st	72·7	26th
	Monywa	*980*	29·474	−·046	29·702	29·610	6th	29·270	26th	81·4	75·1	95·3	−4·8	77·5	−1·3	86·4	−3·1	17·8	105·8	1st	71·9	26th & 27th.
	Lashio	*2,820*	27·006	−·042	26·952	27·112	5th	26·871	26th	70·6	67·7	83·1	−4·5	66·3	−0·5	74·7	−2·5	16·8	92·5	1st	58·0	9th
	Bhamo	*361*	29·371	−·043	29·686	29·498	7th	29·212	26th	77·0	74·3	84·8	−8·9?	70·2	−2·1	77·5	−5·5?	14·6	96·4	1st	66·2	26th
	Myitkyina	458	29·210	−·050	29·694	29·391	6th	29·096	25th	76·0	72·6	88·5	−3·4	72·7	+0·2	80·6	−1·6	15·8	99·4	1st	67·4	2nd
	II.—Assam.																					
4	Dibrugarh	353	29·365	−·090	29·679	29·522	1st	29·156	26th	78·6	74·4	88·9	+4·5	73·3	+2·8	81·1	+3·7	15·6	96·7	27th	66·7	3rd
	Sibsagar	333	29·393	−·076	29·686	29·547	1st & 4th.	29·187	26th	77·4	74·4	88·6	+3·1	72·9	+1·4	80·8	+2·3	15·7	95·2	27th	65·1	3rd & 14th.
	Tezpur	252	29·478	−·067	29·689	29·640	4th	29·267	26th	78·5	74·8	89·7	+3·1	74·4	+2·2	82·0	+2·7	15·3	96·9	12th	69·9	7th
	Gauhati	196	29·523	−·082	29·674	29·701	4th	29·316	26th	80·5	75·9	91·7	+3·9	74·5	+2·6	83·1	+3·3	17·2	100·3	27th	68·5	2nd
	Dhubri	115	29·583	−·072	29·653	29·752	4th	29·391	26th	80·6	77·0	87·2	+0·9	75·9	+3·0	81·5	+1·9	11·3	92·5	12th	69·9	2nd
	Silchar	104	29·630	−·070	29·687	29·802	4th	29·397	26th	78·7	75·9	89·2	+0·4	74·5	+1·9	81·8	+1·1	14·7	96·2	27th	69·1	2nd & 3rd.
	Srimangal	66	29·661		29·677	29·811	4th	29·431	26th	78·8	75·7	90·4	−0·9	72·7	+0·5	81·5	−0·2	17·7	95·5	11th	68·0	3rd
	III.—Bengal.																					
5	Cox's Bazar	36	29·670		29·651	29·813	4th	29·330	25th	79·3	76·3	85·7		73·6		79·8		12·1	91·2	5th	68·3	10th
	Chittagong	87	29·625	−·078	29·658	29·774	4th	29·373	24th	79·8	76·9	86·9	−1·9	74·3	−1·1	80·6	−1·5	12·6	90·9	11th	69·7	11th
	Noakhali	43	29·666	−·067	29·656	29·823	4th	29·434	25th	80·2	77·1	86·9	−2·4	75·5	−0·2	81·2	−1·3	11·4	93·0	1st	69·8	3rd
	Barisal	12	29·679	−·071	29·636	29·841	4th	29·465	25th	81·6	77·6	88·2	−3·5	75·0	−0·7	82·1	−2·1	12·2	92·8	27th	69·9	6th
	Narayanganj	26	29·669	−·070	29·614	29·840	4th	29·450	25th	81·4	77·3	89·5	−1·6	75·9	+0·1	82·7	−0·7	13·6	93·5	26th	70·8	3rd
	Mymensingh	63	29·646	−·063	29·661	29·807	4th	29·442	26th	79·3	76·1	88·1	−0·8	75·6	+1·5	81·8	+0·3	12·5	94·9	11th	70·1	2nd
	Bogra	75	29·614	−·066	29·641	29·782	4th	29·426	26th	80·5	77·2	89·0	−3·4	75·6	+1·4	82·2	−1·0	13·4	95·4	26th & 31st.	69·5	2nd
	Dinajpur	123	29·564	−·059	29·641	29·754	4th	29·376	26th	80·3	76·5	88·6	−3·3	75·6	+1·9	82·1	−0·7	13·0	95·8	26th & 27th.	69·0	4th
	Jalpaiguri	283	29·433	−·050	29·674	29·574	4th	29·277	30th	78·7	76·0	89·5	+0·6	74·5	+2·1	82·0	+1·3	15·0	97·6	26th	68·8	4th
	Saugor Island	10	29·656	−·068	29·611	29·816	1st	29·492	26th	84·7	79·8	90·6	−1·2	78·6	−2·3	84·6	−1·7	12·0	98·2	26th	71·5	1st
	Midnapore	149	29·495	−·076	29·592	29·686	4th	29·334	26th	84·1	77·5	95·9	−4·0	77·9	−0·4	86·9	−2·2	18·0	105·4	31st	69·3	1st
	Calcutta	21	29·643	−·068	29·611	29·819	4th	29·472	26th	81·9	78·0	92·4	−2·1	76·8	−0·7	84·6	−1·4	15·6	96·6	27th	70·0	6th

N. B.—Elevations in italics indicate barometrical determinations.

B.

at 216 stations in India, etc., in May, 1918.

WIND DIRECTION. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
3	1	2	5	6	7	6	1	0	S 23° E		4·9			46		94		·957		7·5		20		22·33	16·36	+ 5·97	22·33	16·36	+ 5·97	2·90	Victoria Point.
3	0	0	10	15	2	1	0	0	S 56° E	S 81° W	6·1	1·4	+4·7	79	+56	90	+ 2	·872	—·035	4·7	—0·6	27	+9·1	23·79	17·49	+ 6·30	23·79	17·49	+ 6·30	2·66	Mergui.
18	1	0	1	5	6	0	0	0	S 28° E	S 61° W	2·2	1·2	+1·0	33	+24	90	+ 2	·872	—·020	8·3	+3·02	21	+2·1	37·64	23·78	+13·86	37·64	23·78	+13·86	6·35	Tavoy.
0	1	1	2	5	15	7	0	0	S 4° E	S 47° E	10·8	2·5	+8·3	72	+36	90	+ 3	·860	—·023	8·6	+1·3	23	+5·4	30·02	20·69	+ 9·33	30·02	20·69	+ 9·33	3·65	Moulmein
4	2	3	2	5	8	5	1	1	S 13° E	S 39° W	4·3	3·4	+0·9	33	—21	87	+ 1	·905	—·008	8·9	+2·1	22	+8·4	15·44	12·21	+ 3·23	15·44	12·21	+ 3·23	1·97	Rangoon.
9	2	0	0	2	7	8	2	1	S 31° W	S 51° W	3·7	3·5	+0·2	43	+14	88	+ 3	·921	—·010	6·8	+1·3	20	+8·5	19·40	9·97	+ 9·43	19·40	9·97	+ 9·43	3·14	Bassein.
0	1	3	1	2	5	11	7	1	S 47° W	S 64° W	8·1	5·7	+2·4	49	+ 9	83	+ 4	·928	+ ·015	5·8	—0·8	20	+9·0	21·26	10·78	+10·48	21·26	10·78	+10·48	3·90	Diamond Island.
2	0	0	0	16	10	1	1	1	S 22° E	S 28° E	3·5	3·4	+0·1	76	+ 8	86	+ 5	·873	—·054	9·0	+2·5	18	+7·9	18·17	7·44	+10·73	18·17	7·44	+10·73	3·90	Toungoo.
22	1	0	2	3	1	1	1	0	S 41° E		1·7			13		84		·874		7·8		19		52·31	15·03	+37·28	52·31	15·03	+37·28	10·14	Kyaukpyu.
7	1	3	11	4	3	1	0	1	S 79° E	N 81° E	3·5	2·6	+0·9	49	— 1	87	+ 3	·895	—·061	7·7	+1·6	21	+10·7	62·08	13·21	+48·87	62·08	13·21	+48·87	10·17	Akyab.
0	2	0	1	24	2	0	2	0	S 43° E	S 38° E	4·0	7·5	—3·5	72	— 2	75	+ 3	·802	—·019	5·7	+1·4	10	+3·4	12·68	5·36	+ 7·32	12·68	5·36	+ 7·32	4·30	Minbu.
																75	0	·779	— ·045	5·5	+1·5	7	—1·7	2·18	5·93	— 3·75	2·18	5·93	— 3·75	0·39	Yamethin.
9	1	0	0	7	10	2	1	1	S 7° E	S 4° E	4·4	5·4	—1·0	49	—12	68	— 1	·788	—·034	7·0	+3·1	12	+4·4	7·18	5·85	+ 1·33	7·18	5·85	+ 1·33	1·40	Mandalay.
3	3	0	3	16	3	1	1	1	S 46° E		3·1			53		74	+ 5	·779	—·018	7·7	+3·3	9	+2·3	7·64	5·43	+ 2·21	7·64	5·43	+ 2·21	3·83	Monywa.
11	1	7	3	3	1	3	0	2	N 72° E		1·8			23		86	+ 5	·636	— ·021	7·3	+0·7	23	+11·6	21·52	6·69	+14·83	21·52	6·69	+14·83	2·31	Lashio.
30	0	1	0	0	0	0	0	0	N 45° E	N 53° W	0·9	2·3	—1·4	2	—18	88	+ 8	·806	+ ·029	7·5	+1·9	16	+6·3	11·36	6·29	+ 5·07	11·36	6·29	+ 5·07	3·10	Bhamo.
29	0	1	0	1	0	0	0	0	E		1·5			5		85	+ 7	·756	+ ·007	7·6	+1·4	13	+3·5	5·53	6·47	— 0·94	5·53	6·47	— 0·94	1·03	Myitkyina.
																															II.—Assam.
20	0	3	7	1	0	0	0	0	N 81° E		0·8			33		82	— 7	·790	+ ·025	4·9	—1·6	14	—0·3	9·31	10·89	— 1·58	9·31	10·89	— 1·58	1·72	Dibrugarh.
13	5	8	1	0	0	2	1	1	N 20° E	N 60° E	1·5	2·1	—0·6	33	0	87	— 4	·812	+ ·001	7·6	—0·3	11	—4·7	7·59	12·11	— 4·52	7·59	12·11	— 4·52	1·75	Sibsagar.
4	0	12	9	0	2	3	1	0	N 73° E		2·0			49		84	— 3	·817	+ ·039	4·9	—1·3	10	—4·4	11·95	9·18	+ 2·77	11·95	9·18	+ 2·77	4·88	Tezpur.
24	2	3	0	1	0	0	0	1	N 28° E		1·3			17		81	— 5	·834	+ ·045	6·0	—0·6	8	—5·6	5·79	10·06	— 4·27	5·79	10·06	— 4·27	2·83	Gauhati.
2	0	9	12	1	5	0	1	1	N 86° E	N 67° E	4·1	5·2	—1·1	56	+ 2	85	— 2	·881	+ ·080	3·8	—2·42	9	—6·5	11·50	15·28	— 3·78	11·50	15·28	— 3·78	2·30	Dhubri.
17	2	5	6	0	0	1	0	0	N 61° E	N 84° E	2·1	2·3	—0·2	33	+20	87	+ 2	·856	+ ·027	5·5	—1·0	14	—2·1	13·58	16·22	— 2·64	13·58	16·22	— 2·64	2·63	Silchar.
																86	+ 1	·850	— ·011	5·1		16	+2·8	13·62	16·89	— 3·27	13·62	16·89	— 3·27	2·50	Srimangal.
																															III.—Bengal.
11	1	1	3	12	3	0	0	0	S 51° E		2·7			53		87		·866		6·4		18		38·06	13·24	+24·82	38·06	13·24	+24·82	11·48	Cox's Bazar.
8	0	1	4	14	3	1	0	0	S 47° E	S 50° E	2·2	4·7	—2·5	62	— 3	88	+ 7	·889	—·002	6·9	+1·5	17	+6·3	15·13	9·93	+ 5·20	15·13	9·93	+ 5·20	6·37	Chittagong.
4	0	1	5	17	4	0	0	0	S 50° E		3·7			74		87	+ 4	·888	—·030	5·8	+1·5	19	+8·4	20·69	11·97	+ 8·72	20·69	11·97	+ 8·72	5·32	Noakhali.
11	1	2	0	4	11	2	0	0	S 13° E	S 9° E	1·8	3·7	—1·9	43	— 7	83	+ 1	·893	—·065	6·9	+1·5	14	+4·3	12·25	9·39	+ 2·86	12·25	9·39	+ 2·86	2·40	Barisal.
6	0	1	10	8	5	1	0	0	S 56° E	S 28° E	2·1	4·9	—2·8	62	+ 8	82	— 2	·883	—·037	6·4	+0·4	14	+3·1	12·53	9·61	+ 2·92	12·53	9·61	+ 2·92	4·03	Narayanganj.
19	0	0	7	4	0	0	0	1	S 77° E	S 81° E	1·7	3·0	—1·3	30	—38	86	+ 2	·864	+ ·025	7·1	+0·9	11	—2·3	8·13	13·41	— 5·28	8·13	13·41	— 5·28	2·93	Mymensingh.
19	0	1	6	0	5	0	0	0	S 57° E	S 72° E	1·2	3·2	—2·0	27	—33	86	+ 5	·887	+ ·056	7·1	+2·82	10	0	14·58	8·80	+ 5·78	14·58	8·80	+ 5·78	5·88	Bogra.
1	0	6	14	4	3	3	0	0	S 79° E	N 88° E	3·0	3·4	—0·4	62	—10	84	+ 5	·866	+ ·067	5·5	—0·4	9	+0·1	9·37	7·87	+ 1·50	9·37	7·87	+ 1·50	2·31	Dinajpur.
28	0	0	2	1	0	0	0	0	S 75° E	N 88° E	1·4			10	—22	88	+ 5	·861	+ ·071	5·4	+1·1	12	—0·6	15·64	11·31	+ 4·33	15·64	11·31	+ 4·33	5·15	Jalpaiguri.
0	2	2	0	2	11	10	2	2	S 28° W	S 5° W	9·3	7·9	+1·4	56	—19	82	+ 1	·968	—·032	6·7	+0·5	7	+1·2	4·27	4·52	— 0·25	4·27	4·52	— 0·25	2·00	Saugor Island.
17	1	2	1	2	5	2	0	0	S 31° E		3·6			19		73	— 1	·857	—·028	5·1	+2·8	5	—2·3	3·48	5·29	— 1·81	3·48	5·29	— 1·81	1·32	Midnapore.
1	1	2	3	8	7	8	0	1	S 14° E	S 6° W	4·0	5·1	—1·1	53	—15	83	+ 4	·909	—·028	5·5	+0·8	8	+0·8	8·19	5·79	+ 2·40	8·19	5·79	+ 2·40	3·31	Calcutta.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-eistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	10	29·652	−·059	29·629	29·849	4th	29·463	26th	81·6	77·5	91·0	−3·5	76·2	−0·4	83·6	−1·9	14·8	97·7	27th	70·8	6th
	Burdwan	99	29·553	−·070	29·597	29·769	4th	29·357	26th	80·9	77·0	92·6	−5·2	75·9	−1·6	84·3	−3·4	16·7	101·1	31st	68·2	5th
	Berhampore	67	29·606	−·056	29·622	29·812	4th	29·413	26th	81·8	76·7	93·3	−3·3	76·3	−0·1	84·9	−1·7	17·0	99·7	27th	68·9	5th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·602	−·073	29·597	29·766	1st	29·442	27th	83·0	77·7	93·6	−3·6	76·7	−1·9	85·1	−2·7	16·9	101·1	26th & 31st.	67·8	1st
	Hukitala (False Point)	29	29·638	−·072	29·608	29·792	1st	29·470	21st													
	Cuttack	80	29·593	−·057	29·614	29·729	1st	29·438	25th	83·8	78·0	99·0	−2·5	78·0	−2·0	88·6	−2·3	21·0	104·5	19th	68·6	5th
	Puri	24	29·657	−·060	29·622	29·809	4th	29·498	25th	83·1	79·1	88·8	−1·1	78·8	−2·1	83·8	−1·6	10·0	92·6	26th	70·8	5th
	Angul	455	29·195	−·070	29·592	29·337	1st	29·049	21st	82·9	77·1	98·1	−5·3	77·1	−1·4	88·1	−3·3	22·0	105·4	19th	67·0	5th
	Sambalpur	486	29·161	−·069	29·586	29·294	1st	29·006	21st	87·9	76·0	103·9	−2·7	80·1	−1·1	92·0	−1·9	23·8	109·2	26th	73·7	1st
7	Chaibasa	*733*	28·902	−·071	29·575	29·063	1st	28·736	27th	83·1	75·7	99·9	−4·0	77·6	−0·3	88·8	−2·1	22·3	106·1	19th	65·3	5th
	Ranchi	2,128	27·544	−·068	29·559	27·681	10th	27·409	26th	80·6	72·3	94·6	−4·6	73·9	−1·6	84·2	−3·1	20·7	101·7	21st	63·5	1st
	Purulia	*816*	28·839	−·054	29·598	29·011	4th	28·676	27th	82·3	75·1	97·6	−4·5	76·7	−0·6	87·2	−2·5	20·9	107·1	28th	68·1	1st
	Daltonganj	*730*	28·891	−·073	29·557	29·078	7th	28·731	26th	87·5	74·9†	105·6	−1·3	80·1	+0·9	92·9	−0·2	25·5	110·8	26th	71·7	5th
8	Purnea	124	29·547	−·066	29·626	29·710	4th	29·362	26th	80·6	76·8	90·3	−4·7	75·7	+1·5	83·0	−1·6	14·6	97·3	27th	66·6	4th
	Monghyr	155	29·481		29·588†	29·658	1st	29·279	27th	82·8	76·7	95·1		77·3		86·2		17·8	102·8	27th	66·3	4th
	Darbhanga	165	29·498	−·053	29·617	29·657	7th	29·315	26th	81·7	75·9	92·2	−3·6	76·0	0	84·1	−1·8	16·2	99·5	12th	68·3	4th
	Pusa	188	29·468		29·609	29·640	7th	29·282	26th	82·9	77·1	94·8		75·1		84·9		19·7	103·2	27th	66·5	4th
	Patna	183	29·466	−·046	29·602	29·674	7th	29·291	26th	84·9	76·9	95·2	−5·0	78·9	+1·2	87·2	−1·9	16·3	103·0	27th	66·5	4th
	Buxar	239	29·367	−·076	29·560	29·543	7th	29·168	26th	83·4	76·1	99·6	−3·4	79·0	−0·2	89·3	−1·8	20·6	107·2	30th & 31st.	68·0	7th
	Gaya	372	29·260	−·050	29·580	29·498	7th	29·085	26th	87·0	75·8	100·0	−4·7	80·6	+0·9	90·3	−1·9	19·4	107·9	31st	68·4	4th
	Naya Dumka	489	29·170	−·052	29·607	29·323	4th	28·992	27th	83·5	76·3	94·9	−3·9	76·9	−0·2	85·9	−2·1	18·0	103·2	31st	68·0	4th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·283	−·054	29·597	29·549	4th	29·212	27th	82·3	76·2	94·1	−6·8	77·4*	+0·5*	85·7*	−3·1	16·7	102·3	11th	67·8	7th
	Benares	267	29·341	−·072	29·557	29·519	7th	29·189	26th	89·2	77·5	102·4	−2·9	80·9	+2·1	91·7	−0·4	21·5	109·6	29th	70·7	5th
	Allahabad	309	29·303	−·065	29·560	29·476	6th	29·156	27th	90·5	75·9	105·6	−1·3	82·8	+3·2	94·2	+0·9	22·8	112·7	26th	72·3	5th
	Cawnpore	416	29·184	−·070	29·548	29·359	5th	29·031	27th & 29th.	89·3	76·2	106·2	+0·4	82·4	+3·3	94·3	+1·9	23·8	112·0	22nd	71·9	7th
	Lucknow	368	29·235	−·074	29·551	29·416	5th	29·055	27th	90·3‡	76·5‡	104·3‡	−0·6‡	79·8‡	+2·2‡	92·0‡	+0·7‡	24·5‡	111·3	12th & 22nd.	71·9	7th
	Bahraich	407	29·213	−·064	29·575	29·393	7th	29·027	27th	84·0	74·9	97·0	−5·6	78·8	+1·8	87·9	−1·9	18·2	103·8	27th	67·2	4th
10	Jhansi	824	28·778	−·110	29·528	28·952	9th	28·666	27th	94·3	72·7	110·8	+2·4	85·8	+1·4	98·3	+1·9	25·0	114·6	17th	76·0	2nd
	Agra	556	29·027	−·097	29·522	29·179	5th	28·883	29th	94·0	75·6	109·6	+2·9	85·3	+3·8	97·4	+3·3	24·3	112·7	23rd	77·5	2nd
	Mainpuri	516	29·083	−·073	29·544	29·256	6th	28·943	27th	91·5	74·9	109·2	+2·0	82·6	+3·9	95·9	+2·9	26·6	114·0	21st	74·1	7th
	Bareilly	568	29·028	−·074	29·546	29·201	8th	28·856	27th	87·9	75·1	103·9	+0·8	80·2	+3·8	92·1	+2·3	23·7	110·3	26th	70·0	7th
	Roorkee	899	28·697	−·075	29·539	28·866	10th	28·535	29th	88·5	73·6	103·8	+1·3	79·3	+5·1	91·6	+3·2	24·5	110·4	28th	70·	7th
	VI.—Punjab.																					
11	Delhi	718	28·879	−·074	29·545	29·038	8th	28·728	29th	88·3	73·7	106·3	+1·8	83·5	+3·1	94·9	+2·5	22·8	111·0	28th	74·0	18th
	Hissar	725	28·853	−·076	29·520	29·027	10th	28·720	26th	92·0	72·6	110·5	+3·7	79·7	+2·3	95·1	+3·0	30·8	115·0	21st	69·7	1st

* Mean of 30 days. † Mean of 28 days. ‡ Mean of 25 days.

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 216 stations in India, etc., in May, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															III.—Bengal—*concld.*
23	0	0	1	5	1	1	0	0	S 37° E	S 16° E	1·3	3·4	−2·1	23	−31	82	− 1	·889	−·063	4·6	−0·9	11	+ 1·4	11·76	8·40	+ 3·36	11·76	8·40	+ 3·36	4·26	Jessore.
17	1	3	0	2	4	3	0	1	S 11° E	S 11° W	1·2	3·4	−2·2	13	−41	83	+ 6	·879	−·009	6·2	+1·0	7	− 0·4	4·49	6·37	− 1·88	4·49	6·37	− 1·88	1·82	Burdwan.
6	1	3	9	7	2	1	1	1	S 74° E	S 37° E	2·7	3·7	−1·0	49	− 1	79	− 2	·859	−·021	4·6	−0·7	8	+ 0·6	8·97	5·55	+ 3·42	8·97	5·55	+ 3·42	4·00	Berhampore.
																															IV.—Bihar and Orissa.
4	2	1	1	0	9	12	0	2	S 32° W	S 29° W	3·5	6·4	−2·9	49	−26	78	+ 3	·882	−·040	4·9	+1·6	11	+ 4·7	6·14	4·85	+ 1·2	6·14	4·85	+ 1·29	2·36	Balasore.
2	2	0	0	0	9	13	2	3	S 43° W		10·8			62	−13					6·2	+0·1	6	+ 1·7	3·49	4·42	− 0·93	3·49	4·42	− 0·93	1·32	Hukitola (False Point).
11	0	1	0	0	9	13	4	0	S 50° W	S 46° W	2·8	3·7	−0·9	53	+13	76	+ 2	·882	−·029	5·6	+1·1	5	− 0·5	3·84	4·08	− 0·24	3·84	4·08	− 0·24	2·03	Cuttack.
1	1	0	0	0	8	14	4	2	S 47° W		12·5			71		83	− 2	·839	−·073	5·8	+1·5	11	+ 7·9	7·97	2·76	+ 5·21	7·97	2·76	+ 5·21	1·85	Puri.
8	1	5	1	6	2	1	3	4	N 79° E		6·1			6		75	+ 8	·851	+·026	7·3	+5·3?	7	+ 3·2	3·89	2·07	+ 1·82	3·89	2·07	+ 1·82	1·20	Angul.
0	1	4	5	0	3	14	3	1	S 35° W	S 7° E	3·1	3·1	0	33	− 9	56	+ 6	·738	+·032	4·6	+1·7	3	+ 0·5	0·84	1·32	− 0·48	0·84	1·32	− 0·48	0·28	Sambalpur.
13	0	2	1	0	2	11	1	1	S 43° W	S 58° W	2·7	2·0	+0·7	33	−14	69	+ 5	·782	+·033	4·5	+2·2	7	+ 1·4	2·61	3·26	− 0·65	2·61	3·26	− 0·65	0·60	Chalbasa.
1	0	1	1	5	8	11	4	0	S 19° W	S 43° W	4·1	5·7	−1·6	69	+22	65	+14	·690	+·110	4·8	+2·5	6	+ 1·4	2·99	2·33	+ 0·66	2·99	2·33	+ 0·66	0·71	Ranchi.
14	0	4	1	8	1	0	2	1	S 67° E		1·4			23		71	+ 5	·777	+·031	5·5	+3·1	6	+ 0·9	2·06	2·96	− 0·90	2·06	2·96	− 0·90	0·54	Purulia.
11	1	5	2	7	0	5	0	0	S 60° E		4·9			26		55†	+ 7	·704†	+·090	1·1	−0·4	1	− 0·1	0·32	0·57	− 0·25	0·32	0·57	− 0·25	0·30	Daltonganj.
0	0	7	11	11	2	0	0	0	S 79° E	N 82° E	3·1	3·3	−0·2	79	+ 4	84	+ 7	·874	+·063	6·4	+2·7	7	+ 1·4	7·66	4·45	+ 3·21	7·66	4·45	+ 3·21	4·21	Purnea.
0	1	2	16	11	1	0	0	0	S 76° E		6·5			84		76		·827		5·8		3		4·10	1·85	+ 2·25	4·10	1·85	+ 2·25	2·10	Monghyr.
5	0	3	18	2	1	0	0	2	N 87° E	S 79° E	5·7	4·5	+1·2	66	−10	76	+ 4	·819	+·024	6·9	+4·6?	4	+ 0·1	1·87	2·93	− 1·06	1·87	2·93	− 1·06	0·83	Darbhanga.
0	1	10	14	6	0	0	0	0	N 81° E		4·2			81		76		·854		5·1		4		3·69	1·92	+ 1·77	3·69	1·92	+ 1·77	1·65	Pusa.
0	0	1	26	0	1	2	1	0	S 86° E	N 87° E	6·1	4·2	+1·9	79	+11	70	+ 6	·838	+·086	4·2	+2·2	2	− 1·0	2·10	1·65	+ 0·45	2·10	1·65	+ 0·45	1·83	Patna.
0	0	3	21	6	1	0	0	0	S 84° E		4·7			87		71	+19?	·803	+·167?	4·9	+3·1	2	+ 0·6	0·85	0·68	+ 0·17	0·85	0·68	+ 0·17	0·41	Buxar.
5	1	5	7	6	3	2	1	1	S 74° E	S 78° W	3·7	3·9	−0·2	40	+12	59	+ 1	·744	−·028	3·5	+1·0	3	+ 1·3	2·23	1·07	+ 1·16	2·23	1·07	+ 1·16	1·35	Gaya.
15	0	0	4	8	2	2	0	0	S 43° E		2·3			40		71	+ 4	·810	+·044	4·1	+1·1	5	+ 0·2	2·91	3·48	− 0·57	2·91	3·48	− 0·57	0·98	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
2	0	0	28	0	0	0	1	0	E	N 76° E	3·1	2·6	+0·5	87	+44	74	+11	·823	+·095	3·4	+1·4	4	+ 1·2	2·63	1·50	+ 1·13	2·63	1·50	+ 1·13	1·50	Gorakhpur.
1	0	4	8	13	0	1	3	1	S 68° E	N 72° E	3·4	3·7	−0·3	53	+41	58	+ 6	·781	+·108	3·4	+1·8	1	+ 0·1	0·77	0·55	+ 0·22	0·77	0·55	+ 0·22	0·65	Benares.
1	0	9	14	1	0	1	5	0	N 73° E	N 2° E	4·8	5·0	−0·2	53	+44	50	+ 8	·701	+·128	3·0	+1·3	0	− 0·8	0·05	0·31	− 0·26	0·05	0·31	− 0·26	0·04	Allahabad.
2	1	0	8	13	1	1	2	3	S 58° E	S 56° W	2·6	3·6	−1·0	46	+31	54	+15	·730	+·137	0·4	−0·8	1	+ 0·3	0·45	0·37	+ 0·08	0·45	0·37	+ 0·08	0·45	Cawnpore.
7	0	1	19	3	0	0	1	0	S 86° E	N 72° E	2·5	2·9	−0·4	69	+56	52‡	+ 6	·737‡	+·155	1·4	−0·4	0	− 1·4	0	0·99	− 0·99	0	0·99	− 0·99	0	Lucknow.
9	0	0	12	8	2	0	0	0	S 67° E	S 72° E	3·3	3·6	−0·3	66	+20	62	+ 3	·740	+·027	3·1	+1·7	4	+ 1·1	3·07	1·65	+ 1·42	3·07	1·65	+ 1·42	1·11	Bahraich.
2	1	0	1	4	0	9	12	2	S 67° W	N 70° W	5·1	3·4	+1·7	56	+16	33	− 5	·513	−·048	1·5	+0·4	0	− 1·2	0·01	0·35	− 0·34	0·01	0·35	− 0·34	0·01	Jhansi.
4	1	4	6	2	1	5	7	1	S 38° W	S 49° W	4·4	4·5	−0·1	3	−36	40	+ 2	·636	+·110	1·4	+0·2	0	− 1·4	0·04	0·47	− 0·43	0·04	0·47	− 0·43	0·04	Agra.
2	2	1	8	9	1	1	2	5	S 78° E	N 84° W	2·5	2·0	+0·5	30	+15	44	+ 3	·642	+·098	0·8	−1·2	1	+ 0·3	0·15	0·49	− 0·34	0·15	0·49	− 0·34	0·15	Mainpuri.
5	0	0	11	11	2	0	1	1	S 62° E	S 73° E	2·7	3·1	−0·4	62	+49	54	+ 5	·699	+·093	0·7	−0·8	1	− 0·7	0·18	0·75	− 0·57	0·18	0·75	− 0·57	0·18	Bareilly.
4	0	0	0	25	1	0	0	1	S 44° E	S 45° E	4·5	2·7	+1·8	79	+50	48	+ 9	·635	+·164	0·4	−0·9	0	− 1·8	0·04	0·88	− 0·84	0·04	0·88	− 0·84	0·04	Roorkee.
																															VI.—Punjab
1	2	1	3	9	0	0	9	6	N 79° W	S 73° W	5·0	3·2	+1·8	10	−15	49	+10	·643	+·119	0·6	−1·4	1	− 0·8	0·15	0·62	− 0·47	0·15	0·62	− 0·47	0·11	Delhi.
0	0	1	2	3	3	13	9	0	S 45° W	S 39° W	5·5	4·5	+1·0	59	+34	36	− 2	·542	+·038	0·9	−1·0	0	− 1·5	0	0·55	− 0·55	0	0·55	− 0·55	0	Hissar.

Means of 8 days.
5

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*concld.*																					
	Patiala	*818*	28·755	−·098	29·519	28·923	9th	28·589	27th & 29th.	89·2	74·4	105·6	+2·7	78·6	+2·1	92·1	+2·4	27·0	111·4	28th	70·0	3rd
	Ambala	892	28·689	−·080	29·524	28·874	10th	28·524	27th	89·6	72·9	108·0	+3·9	79·3	+3·7	93·7	+3·8	28·7	115·7	28th	69·3	2nd
	Ludhiana	812	28·758	−·082	29·518	28·962	10th	28·586	27th	88·8	71·3	107·9	+3·7	80·4	+4·7	94·1	+4·2	27·5	114·1	28th	70·6	1st
	Lahore	702	28·839	−·103	29·491	29·006	10th	28·677	27th	90·6	73·2	109·5	+4·1	78·5	+5·1	94·0	+4·6	31·0	115·8	22nd	70·3	1st
	Sialkot	830	28·712	−·109	29·493	28·853	1st	28·537	27th	88·0	72·8	105·0	+1·8?	76·3	+1·3?	90·7	+1·5?	28·7	111·8	27th	67·4	1st
	Rawalpindi	1,674	27·912	−·107	29·491	28·087	9th	27·773	29th	83·5	68·8	101·5	+6·5	70·8	+2·3	87·6	+4·4	33·7	111·2	31st	62·0	3rd
12	Khushab	612	28·921	−·119	29·484	29·119	1st	28·763	29th	94·1	71·8	110·8	+6·4	80·8	+3·9	95·8	+5·1	30·0	118·8	27th	72·2	3rd
	Lyallpur	605	28·926		29·481	29·102	9th	28·779	29th	93·3	72·0	110·0		79·2		94·1		31·8	114·9	22nd	69·0	1st
	Montgomery	558	28·974	−·106	29·484	29·138	9th	28·836	29th	92·7	73·1	109·6	+2·4	80·3	+2·3	94·9	+2·3	29·3	114·8	27th	71·1	1st
	Multan	426	29·091	−·128	29·470	29·269	1st	28·936	29th	91·7	76·6	110·3	+3·1	84·0	+5·9	97·1	+4·7	26·3	111·7	21st	78·7	2nd
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·456	−·138	29·569	28·644	11th	28·300	27th	89·6	70·7	108·9	+10·8	73·9	+4·0	91·4	+7·4	35·0	116·2	23rd	65·3	3rd
	Dera Ismail Khan	590	28·945	−·143	29·490	29·128	1st	28·777	30th	91·0	73·2	111·1	+7·3	78·8	+4·2	94·9	+5·7	32·3	116·6	22nd	72·3	3rd
	VIII.—Sind.																					
16	Jacobabad	186	29·381	−·085	29·522	29·553	10th	29·255	29th	92·6	78·3	116·0	+4·0	80·4	+2·1	98·2	+3·1	35·6	117·3	22nd	75·0	1st
	Hyderabad	96	29·518	−·083	29·567	29·664	9th	29·415	17th	85·3	77·1	104·6	−2·6	78·3	+0·1	91·5	−1·3	26·3	114·4	16th	74·0	6th
	Karachi	13	29·655	−·082	29·619	29·764	1st	29·543	17th	83·5	78·7	88·5	−6·3	80·0	+1·7	84·2	+0·7	8·5	91·8	10th	75·0	1st
	IX.—Rajputana.																					
17	Bikaner	*771*	28·840	−·059	29·554	28·993	9th	28·737	27th	90·6	76·3	111·4	+4·0	83·1	+0·2	97·3	+2·1	28·3	116·4	16th	75·7	2nd
	Jodhpur	780	28·876	−·065	29·601	29·004	9th	28·805	17th & 29th. 27th	86·7	71·5	105·9	−0·5	79·7	−0·5	92·8	−0·5	26·2	112·5	14th	73·7	9th
18	Jaipur	1,431	28·226	−·074	29·564	28·369	9th	28·139	27th	90·7	71·2	108·6	+2·1	81·9	+3·6	95·2	+2·9	26·7	114·0	16th	73·8	2nd
	Ajmer	1,611	28·067	−·072	29·580	28·194	9th	27·973	27th	87·5	72·6	103·2	−0·6	83·2	+3·2	93·2	+1·3	20·0	107·8	16th	76·2	2nd
	Kotah	832	28·795	−·091	29·552	28·917	9th	28·700	27th	95·7	73·9	110·4	+1·5	87·0	+1·3	98·7	+1·4	23·4	113·8	16th	81·4	8th
	X.—Bombay.																					
19	Deesa	466	29·246	−·069	29·659	29·341	9th	29·169	17th	86·3	76·1	106·8	−0·2	78·9	+1·5	92·9	+0·7	27·9	116·1	14th	71·8	4th
	Bhuj	334	29·356	−·087	29·638	29·455	1st	29·258	17th	84·7	76·9	99·0	−2·4	77·7	+1·2	88·3	−0·6	21·3	105·8	1st	72·3	5th
	Jamnagar	61	29·645	−·096	29·651	29·740	1st	29·565	17th	85·3	77·1	96·9	−1·0	77·2	+0·5	87·0	−0·3	19·7	101·1	14th	62·1	1st
	Dwarka	37	29·679	−·101	29·662	29·791	1st	29·603	17th	83·5	78·7	88·6	+0·9	81·0	+0·9	84·8	+0·9	7·6	90·5	26th & 27th.	78·0	1st & 3rd
	Rajkot	429	29·284	−·096	29·657	29·373	1st	29·215	17th	84·4	75·6	103·6	−1·8	74·9	−0·1	89·3	−0·9	28·7	107·8	15th	68·5	1st
	Veraval	*18*	29·720	−·096	29·681	29·803	1st	29·645	29th	82·4	78·4	85·4	−1·0	80·7	+2·3	83·0	+0·7	4·7	87·3	26th	75·1	1st
	Bhavnagar Para	55	29·670	−·098	29·670	29·748	1st	29·597	29th	86·2	79·9	103·3	−1·8	78·4	+1·2	91·3	−0·3	23·9	110·0	17th	72·8	3rd
	Surat	39	29·706	−·093	29·688	29·782	1st	29·636	24th	85·7	78·2	95·3	−2·4	79·5	+1·1	87·4	−0·7	15·8	103·7	12th	74·9	3rd
	Ahmadabad	163	29·565	−·081	29·675	29·645	3rd	29·498	17th	86·8	76·4	107·0	−0·6	80·5	+1·1	93·8	+0·3	26·5	112·8	14th	74·9	3rd
25	Bombay	37	29·736	−·098	29·713	29·829	1st	29·603	24th	82·5	77·7	89·6	−1·2	79·9	−0·8	84·7	−1·0	9·7	92·5	21st	76·3	30th
	Ratnagiri	207	29·571	−·092	29·716	29·645	1st	29·493	11th	83·0	77·0	87·9	−3·1	78·3	−1·4	83·1	−2·3	9·6	93·5	12th	71·9	31st
	Marmagao	*60*	29·739	−·080	29·733	29·816	1st	29·654	11th	81·6	78·2	86·9	−2·9	79·6*	−1·4*	84·7*	−2·1	7·3	94·2	12th	74·9	8th
	Karwar	44	29·765	−·069	29·743	29·844	1st	29·684	12th	81·0	76·9	86·7	−3·0	76·9	−2·8	81·8	−2·9	9·8	92·8	8th	72·2	22nd

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 16 days.

B—*continued.*

at 216 stations in India, etc., in May, 1918—*continued.*

WIND DIRECTION. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															VI.—Punjab—*concld.*
3	0	1	11	9	2	0	3	2	S 67° E		4·0			48		49	+ 5	·670	+·117	1·7	+0·5	0	−1·7	0	0·71	−0·71	0	0·71	−0·71	0	Patiala.
1	0	0	14	11	1	0	1	3	S 70° E	S 89° E	4·3	2·3	+2·0	65	+59	43	− 2	·603	+·067	0·5	−0·6	0	−1·6	0	0·85	−0·85	0	0·85	−0·85	0	Ambala.
15	0	0	0	11	4	0	0	1	S 32° E	S 41° E	1·8	1·9	−0·1	43	+20	40	+ 1	·533	+·046	0·2	−1·3	0	−1·5	0	0·66	−0·66	0	0·66	−0·66	0	Ludhiana.
4	0	2	4	6	2	3	4	6	S 15° W	N 72° E	1·4	2·3	−0·9	10	−12	41	0	·583	+·079	0·2	−1·4	0	−1·4	0	0·72	−0·72	0	0·72	−0·72	0	Lahore.
9	4	4	8	4	0	1	1	0	N 74° E	N 41° E	1·0*	2·3	−1·3	40	+ 1	47	+ 6	·606	+·094	0·4	−0·9	0	−2·2	0	1·08	−1·08	0	1·08	−1·08	0	Sialkot.
9	5	3	1	1	0	0	5	7	N 29° W	N 14° E	2·5	2·2	+0·3	43	+25	32	−10	·443	−·009	0·6	−1·5	0	−2·7	0	1·30	−1·30	0	1·30	−1·30	0	Rawalpindi.
8	0	7	8	3	3	1	1	0	S 86° E	N 14° E	3·9	5·1	−1·2	43	+25	30	− 4	·480	+·038	0·5	−0·6	0	−1·5	0·05	0·71	−0·66	0·05	0·71	−0·66	0·05	Khushab.
4	0	4	2	6	5	8	1	1	S 8° E		2·6			37		32		·503		0·5		6	−1·1	0·04	0·35	−0·31	0·04	0·35	−0·31	0·04	Lyallpur.
2	0	1	1	4	11	10	2	0	S 12° W	S 43° E	4·7	5·5	−0·8	69	+55	35	+ 4	·551	+·113	0·4	−0·6	0	−1·0	0	0·32	−0·32	0	0·32	−0·32	0	Montgomery.
13	0	0	0	8	7	3	0	0	S 13° E	S 12° E	1·5	1·9	−0·4	49	+42	48	+ 6	·716	+·166	0·1	−0·5	0	−0·7	0	0·29	−0·29	0	0·29	−0·29	0	Multan.
																															VII.—North-West Frontier Province.
24	2	0	0	0	2	0	1	2	N 59° W	N 50° W	0·9	3·4	−2·5	7	− 4	38	− 5	·514	+·027	0·2	−2·0	0	−2·1	0·04	0·88	−0·84	0·04	0·88	−0·84	0·04	Peshawar.
25	1	2	1	1	1	0	0	0	N 77° E	N 16° E	1·6	1·8	−0·2	10	−15	40	− 8	·577	−·023	0	−1·0	0	−0·9	0	0·39	−0·39	0	0·39	−0·39	0	Dera Ismail Khan.
																															VIII.—Sind.
11	0	0	0	11	1	3	0	0	S 8° E	S 53° E	2·5†	3·4	−0·9	16	+17	52	+10	·778	+·146	0	−0·3	0	−0·4	0	0·13	−0·13	0	0·13	−0·13	0	Jacobabad.
0	0	0	0	0	14	16	1	0	S 26° W	S 45° W	9·5	10·6	−1·1	92	+ 2	67	+13	·811	+·141	0	−0·8	0	−0·3	0	0·15	−0·15	0	0·15	−0·15	0	Hyderabad.
0	0	0	1	1	3	12	12	2	S 62° W	S 56° W	10·9	12·3	−1·4	72	+18	80	0	·915	+·036	5·4	+2·2	0	−0·1	0	0·05	−0·05	0	0·05	−0·05	0	Karachi.
																															IX.—Rajputana.
3	0	0	0	0	5	16	7	0	S 48° W	S 36° W	7·6	5·8	+1·8	76	+11	51	+ 7	·721	+·096	0·7	−0·4	0	−1·2	0·01	0·58	−0·57	0·01	0·58	−0·57	0·01	Bikaner.
5	0	1	0	0	1	23	1	0	S 45° W		5·4			72		46	+ 4	·569	+·040	1·8	+0·7	0	−0·7	0·05	0·23	−0·18	0·05	0·23	−0·18	0·03	Jodhpur.
1	2	0	0	0	0	1	16	11	N 69° W	S 88° W	5·5	4·6	+0·9	82	+32	36	− 1	·519	+·022	1·6	+0·2	0	−1·4	0	0·52	−0·52	0	0·52	−0·52	0	Jaipur.
6	0	0	0	0	0	3	17	5	N 87° W	S 79° W	6·5	6·4	+0·1	76	+ 1	48	+ 4	·616	+·049	1·1	0	0	−1·6	0	0·53	−0·53	0	0·53	−0·53	0	Ajmer.
2	1	1	0	0	0	4	11	12	N 71° W		4·4			72		33	+ 5	·548	+·111	2·0	+1·4	0	−1·2	0	0·49	−0·49	0	0·49	−0·49	0	Kotah.
																															X.—Bombay.
1	2	0	0	0	0	16	9	3	S 72° W	S 83° W	8·1	9·8	−1·7	76	+11	61	+ 4	·764	+·080	3·0	+1·0	1	+0·6	0·16	0·18	−0·02	0·16	0·18	−0·02	0·15	Deesa.
0	1	0	0	0	6	2	22	0	S 75° W	S 77° W	8·6	12·7	−4·1	79	− 4	69	+ 3	·816	+·015	2·0	+0·8	0	−0·2	0	0·06	−0·06	0	0·06	−0·06	0	Bhuj.
0	0	0	0	0	2	15	11	3	S 67° W		10·9			84		67	+ 1	·817	+·010	2·2	+1·0	0	−0·1	0	0·02	−0·02	0	0·02	−0·02	0	Jamnagar.
0	0	0	0	1	5	12	12	1	S 57° W		10·0			79		79	− 2	·515	−·010	3·7	+1·4	0	0	0	0·01	−0·01	0	0·01	−0·01	0	Dwarka.
0	0	0	0	0	4	16	9	2	S 57° W	N 89° W	10·7	10·5	+0·2	86	+ 4	65	− 3	·768	−·032	3·7	+2·2?	1	+0·6	1·40	0·16	+1·24	1·40	0·16	+1·24	1·35	Rajkot.
0	1	0	0	3	5	6	14	2	S 63° W	N 89° W	9·0	6·9	+2·1	62	−14	53	+ 1	·915	+·012	3·3	0	1	+0·9	0·24	0·04	+0·20	0·24	0·04	+0·20	0·17	Veraval.
0	0	0	0	0	2	16	8	5	S 67° W	S 62° W	5·1	10·3	−5·2	80	− 1	75	+13?	·936	+·157?	3·1	+1·3	1	+0·6	0·79	0·12	+0·67	0·79	0·12	+0·67	0·79	Bhavnagar Para.
6	0	0	1	2	8	10	3	1	S 28° W	S 54° W	5·6	8·1	−2·5	59	− 9	70	+ 3	·862	+·025	5·8	+2·9	3	+2·8	0·91	0·09	+0·82	0·91	0·09	+0·82	0·58	Surat.
5	0	0	0	0	0	13	5	8	S 80° W	S 81° W	4·6	5·1	−0·5	66	+ 3	61	+ 3	·770	+·037	3·3	+1·0	1	+0·8	1·17	0·11	+1·06	1·17	0·11	+1·06	1·17	Ahmadabad.
0	2	2	1	4	6	4	7	5	S 60° W	N 81° W	5·7	7·4	−1·7	30	−17	80	+ 6	·882	+·003	6·7	+2·7	7	+6·3	11·00	0·64	+10·36	11·00	0·64	+10·36	3·29	Bombay.
5	2	2	0	2	2	6	5	7	N 86° W	N 48° W	7·4	7·1	+0·3	37	−20	75	+ 6	·847	+·008	5·8	+2·3	9	+7·7	12·06	1·11	+10·95	12·06	1·11	+10·95	2·94	Ratnagiri.
0	2	2	5	5	2	2	5	8	N 45° W	N 28° W	6·0	8·0	−2·0	10	−52	86	+10	·916	+·008	8·6	+3·8	16	+13·7	33·22	1·68	+31·54	33·22	1·68	+31·54	12·11	Marmagao.
16	5	0	0	0	3	4	0	3	N 75° W	N 30° W	2·6	4·2	−1·6	17	−46	83	+ 6	·871	+·013	5·5	+1·6	19	+15·9	32·74	2·61	+30·13	32·74	2·61	+30·13	6·89	Karwar.

* Mean of 13 days.
† „ „ 22 „

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay —*concld.*																					
26	Malegaon	1,430	28·315	—·076	29·669	28·376	1st & 9th.	28·243	25th	85·3	71·5	103·5	−1·9	75·0	−0·2	89·2	−0·6	28·5	109·7	4th	70·0	24th
	Ahmadnagar	2,154	27·630	—·075	29·668	27·704	1st	27·574	17th	80·1	69·4	97·2	−3·9	61·2	−0·6	84·2	−2·3	26·0	104·8	4th	67·0	11th
	Poona	1,846	27·932	—·074	29·693	28·004	1st	27·876	25th	79·0	70·5	94·6	−5·1	71·9	+0·1	83·3	−2·5	22·7	103·6	1st	66·9	3rd
	Sholapur	1,590	28·175	—·067	29·680	28·229	1st & 8th.	28·105	17th	81·1	70·6	99·8	−5·0	74·5	−2·2	87·2	−3·6	25·3	108·1	2nd	69·0	28th
	Bijapur	*1,948*	27·842	—·062	29·690	27·898	1st	27·771	22nd	79·5	70·4	96·1	−5·2	73·4	−1·0	84·3	−3·1	22·7	105·5	6th	69·5	22nd & 27th.
	Belgaum	2,562	27·281	—·059	29·732	27·345	1st	27·228	17th	73·9	69·7	88·4	−4·7	68·2	+0·1	78·3	−2·3	20·2	99·4	5th	65·2	1st
	XI.—Central India.																					
20	Neemuch	1,626	28·076	—·074	29·605	28·192	9th	28·001	26th	86·2	71·1	104·4	+0·6	79·0	+1·6	91·7	+1·1	25·4	109·7	16th	73·8	5th
	Indore	1,823	27·898	—·079	29·613	27·984	9th	27·832	17th	86·2	75·5	104·0	+1·1	78·0	+1·8	91·0	+1·5	26·0	110·3	14th	74·4	7th
21	Nowgong	754	28·841	—·102	29·526	28·596	6th	28·738	21st	92·3	73·2	109·4	+2·1	83·6	+3·7	96·5	+2·9	25·8	112·5	17th & 22nd	73·5	2nd
	Sutna	1,041	28·573	—·076	29·534	28·716	9th	28·494	21st	91·9*	73·4*	106·7*	+1·1*	82·1*	+2·4*	94·4*	+1·7*	24·6	110·3	22nd & 23rd.	69·8	7th
	XII.—Central Provinces.																					
22	Buldana	2,134								83·3	70·8	99·7	−1·8	76·0	−1·7	87·9	−1·7	23·7	106·7	11th	69·4	24th
	Akola	925	28·784	—·066	29·636	28·861	8th	28·710	25th	87·9	73·2	106·7	−1·4	80·9	−0·3	93·8	−0·9	25·8	113·3	11th	74·0	24th
	Amraoti	1,215	28·482	—·069	29·614	28·559	8th	28·389	25th	87·9	71·0	105·7	−2·1	79·8	−0·4	92·8	−1·3	25·9	111·6	11th	69·8	11th
23	Khandwa	1,041	28·661	—·074	29·633	28·740	9th	28·591	17th	87·4	72·4	106·6	−0·2	81·7	+0·5	94·2	+0·1	24·9	111·4	14th	76·3	25th
	Hoshangabad	1,006	28·669	—·079	29·592	28·768	9th	28·586	17th	91·9	72·7	108·4	+1·0	83·9	+3·5	96·1	+2·3	24·5	111·7	14th	76·8	8th
	Saugor	1,807	27·859	—·103	29·532	27·967	9th	27·764	17th	90·0	70·2	106·8	+1·6	82·8	+3·7	94·7	+2·7	23·8	111·0	18th	78·0	28th
	Jubbulpore	1,327	28·307	—·093	29·538	28·421	9th	28·265	17th	90·1	71·8	105·6	−0·1	81·4	+2·7	93·5	+1·3	24·2	109·3	18th	78·3	2nd
	Seoni	2,033	27·667	—·069	29·571	27·776	8th	27·568	25th	86·9	69·7	101·1	−2·8	77·7	+1·0	89·4	−0·9	23·4	106·4	2nd	67·1	27th
	Nagpur	1,017	28·665	—·054?	29·601	28·760	8th	28·554	25th	88·3	72·4	105·4	−3·8	80·6	−1·4	93·0	−2·6	24·8	112·0	20th	71·9	27th
24	Pendra	2,010	7·611	—·066	29·554	27·754	10th	27·534	21st	85·8	72·5	100·5	−1·6	76·8	−1·7	88·7	−1·7	23·7	106·5	21st & 23rd.	69·7	8th
	Raipur	970	28·691	—·061	29·586	28·796	8th	28·549	25th	87·7	73·5	104·3	−2·9	79·9†	+2·1†	92·2†	−0·4	24·4	109·5	5th	70·8	11th
	Chanda	*634*	29·051	—·071	29·616	29·135	8th	28·949	17th	89·0	77·1	106·2	−3·5	82·1	0	94·1	−1·7	24·1	112·5	5th	73·8	27th
	Jagdalpur	1,813	27·904		29·616	28·013	1st	27·801	21st	81·4	72·8	96·2		73·0		84·6		23·2	102·4	4th	67·5	8th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·868	—·075	29·666	27·941	1st	27·810	17th	82·6	70·1	100·1	−4·1	74·5	−0·7	87·3	−2·4	25·6	107·1	3rd	69·7	24th
	Nizamabad	1,248	28·475	—·090?	29·634	28·553	8th	28·389	17th	86·3	72·4	104·2	−2·0	78·2	−3·0?	91·2	−2·5?	26·0	111·4	1st	70·2	27th & 30th.
	Bidar	*2,165*								80·8	73·2	97·5	−2·8	52·1?	−25·2	74·8?	−14·0	45·4?	106·4	6th	43·9	12th
28	Gulbarga	1,503	28·243	—·078	29·667	28·306	1st	28·172	17th	80·2	73·0	99·7	−5·0	74·6	−3·9	87·1	−4·5	25·1	109·2	10th	70·1	12th & 27th.
	Raichur	*1,311*	28·459	—·044	29·690	28·531	1st	28·378	22nd	82·7	74·3	98·5	−5·0	76·8	−2·6	87·6	−3·8	21·7	107·0	4th	69·8	22nd
	Hyderabad (Deccan)	1,738	28·049	—·041	29·671	28·132	8th	27·961	17th	82·1	73·5	98·8	−4·7	76·0	−4·4	87·4	−4·5	22·8	105·1	5th	71·4	31st
	Hanamkonda	877	28·846	—·047	29·653	28·932	1st & 8th.	28·738	17th	84·4	74·6	99·6	−5·4	78·8	−3·6	89·2	−4·5	20·8	105·7	20th	71·0	12th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·419	—·064	29·708	27·490	1st	27·356	11th	75·6	69·6	90·4	−3·9	71·1	−0·1	80·7	−2·1	19·3	93·0	6th	65·9	18th
	Hassan	3,149	26·739	—·053	29·779	26·801	30th	26·671	12th	71·5	68·3	83·3	−5·4	67·0	+0·1	75·1	−2·7	16·3	93·2	3rd	65·1	22nd
	Bangalore	3,021	26·859	—·054	29·723	26·924	1st	26·798	17th	73·4	68·9	87·5	−4·1	67·9	−1·3	77·7	−2·7	19·6	95·3	4th	65·2	19th
	Mysore	2,518	27·338	—·064	29·740	27·413	31st	27·247	26th	74·6	69·7	86·4	−5·3	68·8	−0·9	77·6	−3·1	17·6	95·0	3rd	64·3	3rd

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 27 days.
† „ of 29 „

B—*continued.*

at 216 stations in India, etc., in May, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*concld.*
1	1	1	1	1	14	10	1		S 63° W	N 79° W	8·4	9·7	−1·3	66	−14	50	+ 1	·596	−·020	3·6	+2·1	4	+2·9	2·05	0·79	+1·26	2·05	0·79	+1·26	0·94	Malegaon.
5	1	2	1	0	2	4	5	11	N 68° W	N 34° W	5·9	10·9	−5·0	46	−22	60	+ 7	·590	−·019	3·5	+1·9	10	+8·6	5·12	0·79	+4·33	5·12	0·79	+4·33	1·48	Ahmadnagar.
9	0	0	0	2	0	4	12	4	S 85° W	N 80° W	7·9	11·2	−3·3	53	−30	66	+12	·643	+·095	3·8	+1·5	6	+4·5	3·39	1·08	+2·31	3·39	1·08	+2·31	1·02	Poona.
0	2	5	0	2	0	6	8	8	N 67° W	N 55° W	8·2	8·2	0	46	−30	61	+16	·617	+·084	5·9	+3·0	9	+6·9	4·68	0·92	+3·76	4·68	0·92	+3·76	1·55	Sholapur.
0	2	3	1	0	1	8	11	5	N 87° W	N 81° W	6·8	6·1	+0·7	56	−21	64	+ 3?	·624	−·036	4·9	+2·2	7	+4·5	4·19	1·20	+2·99	4·19	1·20	+2·99	1·16	Bijapur.
19	0	0	0	0	1	4	6	1	S 72° W	N 67° W	3·7	12·8	−9·1	30	−24	81	+12	·668	+·048	7·9	+4·2	6	+1·5	2·64	2·39	+0·25	2·64	2·39	+0·25	0·63	Belgaum.
																															XI.—Central India.
1	3	0	0	0	1	0	26	0	N 86° W	S 84° W	9·3	8·8	+0·5	86	+17	47	− 2	·575	−·045	1·6	+0·7	1	+0·2	0·47	0·44	+0·03	0·47	0·44	+0·03	0·43	Neemuch.
1	0	0	0	0	0	1	13	16	N 67° W	N 71° W	7·3	4·6	+2·7	89	+14	61	+10	·744	+·115?	2·2	+0·8	2	+0·9	0·61	0·48	+0·16	0·64	0·48	+0·16	0·42	Indore.
1	2	2	3	2	1	3	5	7	N 74° W	N 82° W	3·1	2·7	+0·7	37	−17	37	+ 2	·559	+·067	4·0	+1·5	1	+0·3	0·10	0·34	−0·24	0·10	0·34	−0·24	0·10	Nowgong.
0	0	2	7	1	6	2	13	0	S 89° W	N 73° W	4·2	5·9	−1·7	30	−14	40*	+10	·599*	+·164	1·6	−0·4	2	+0·8	0·74	0·46	+0·28	0·74	0·46	+0·28	0·37	Sutna.
																															XII.—Central Provinces.
0	0	1	1	0	0	3	14	12	N 73° W		8·1	8·9	−0·8	78		54		·601		4·8		5	+3·9	3·16	0·49	+2·67	3·16	0·49	+2·67	1·40	Buldana.
1	0	0	0	0	1	3	18	8	N 85° W	N 68° W	7·3	7·0	+0·3	86	0	49	+10	·616	+·081	5·5	+3·7	7	+6·2	3·62	0·36	+3·26	3·62	0·36	+3·26	1·73	Akola.
2	1	0	0	0	1	4	12	11	N 77° W	N 77° W	7·5	5·0	+2·5	76	+ 8	44	+ 4	·548	−·019?	3·5	+1·7	5	+3·6	3·49	0·54	+2·95	3·49	0·54	+2·95	1·33	Amraoti.
2	0	0	0	1	0	0	17	11	N 74° W	N 70° W	8·2	7·5	+0·7	82	− 4	47	+ 5	·606	+·063	2·9	+1·7	1	+0·2	0·34	0·36	−0·02	0·34	0·36	−0·02	0·32	Khandwa.
6	0	1	0	0	0	14	1	9*	S 80° W	S 66° W	3·0	3·0	0	53	− 9	38	− 1	·559	+·017	3·5	+2·3?	0	−1·1	0·26	0·49	−0·23	0·26	0·49	−0·23	0·09	Hoshangabad.
1	0	1	0	2	0	3	13	11	N 76° W	S 86° W	6·5	3·9	+2·6	69	+19	36	+ 3	·491	+·034	2·5	+1·1	2	+1·1	0·55	0·46	−0·11	0·35	0·46	−0·11	0·20	Saugor.
0	0	0	2	4	7	7	8	3	S 39° W	S 78° W	3·5	3·1	+0·4	53	− 1	40	+ 8	·553	+ 107	2·9	+1·6	2	+0·8	0·48	0·46	+0·02	0·48	0·46	+0·02	0·32	Jubbulpore.
2	3	0	1	2	7	5	7	4	S 60° W	N 39° W	4·1	3·4	+0·7	43	+ 5	42	+ 9	·512	+·062	3·8	+1·9	5	+3·1	4·28	0·64	+3·64	4·28	0·64	+3·64	2·92	Seoni.
0	1	0	2	0	1	8	9	10	N 86° W	N 48° W	6·5	5·8	+0·7	66	+19	46	+14	·589	+·107	3·1	+0·8	6	+4·2	2·35	0·75	+1·60	2·35	0·75	+1·60	1·16	Nagpur.
1	0	1	0	1	11	10	5	2	S 36° W		6·5			69		52	+21?	·637	+·228?	2·7	+0·8	6	+4·7	1·58	0·84	+0·74	1·58	0·84	+0·74	0·49	Pendra.
1	0	0	1	0	3	19	7	0	S 50° W	S 76° W	5·3	5·8	−0·5	79	+36	49	+14	·637	+·132	2·3	−0·5	6	+3·9	2·99	0·90	+2·09	2·99	0·90	+2·09	1·02	Raipur.
1	0	0	2	7	3	7	8	3	S 37° W	S 84° W	6·1	3·5	+2·6	46	+23	58	+21?	·778	+·223?	4·7	+2·5	3	+1·4	2·53	0·62	+1·91	2·53	0·62	+1·91	1·69	Chanda.
2	0	0	1	1	12	5	10	0	S 36° W		3·9			66		65		·697		5·7		9		4·16	2·39	+1·77	4·16	2·39	+1·77	1·03	Jagdalpur.
																															XIII.—Hyderabad.
1	2	0	1	2	0	3	17	5	N 84° W		10·1			66		55	+14	·585	+·095	6·5	+5·2?	6	+4·6	6·12	0·70	+5·42	6·12	0·70	+5·42	2·10	Aurangabad.
2	0	0	1	0	6	9	12	1	S 57° W		9·4			69		52	+ 3	·621	−·066?	3·6	+1·1	4	+3·1	5·07	0·31	+4·76	5·07	0·31	+4·76	2·52	Nizamabad.
0	0	0	0	0	0	16	9	6	S 74° W		4·7			84		71	+17	·723	+·072	3·0	+1·2	7	+4·9	4·33	0·76	+3·57	4·33	0·76	+3·57	1·81	Bidar.
2	1	1	3	1	1	5	16	1	S 80° W	N 44° W	5·9	9·1	−3·2	53	− 8	71	+15	·723	+·049	4·2	+1·5	9	+6·8	6·70	0·98	+5·72	6·70	0·98	+5·72	1·96	Gulbarga.
2	0	1	0	6	1	15	2	4	S 41° W	N 83° W	7·5	8·4	−0·9	53	−16	68	+15	·746	+·103	4·9	+2·0	5	+3·8	4·19	0·79	+3·40	4·19	0·79	+3·40	2·21	Raichur.
2	0	0	1	3	2	5	12	6	S 78° W	S 62° W	6·3	4·7	+1·6	56	− 4	66	+18	·715	+·121	5·4	+2·1	4	+2·3	1·15	0·88	+0·27	1·15	0·88	+0·27	0·40	Hyderabad (Deccan).
0	1	1	0	7	7	3	8	4	S 38° W		4·9			37		62	+14	·723	+·097	5·2	+1·9	7	+5·5	4·57	0·64	+3·93	4·57	0·64	+3·93	1·61	Hanamkonda.
																															XIV.—Mysore.
4	0	0	1	1	2	10	11	2	S 65° W	S 81° W	6·2	6·6	−0·4	66	−17	74	+ 3	·646	−·022	6·0	+1·1	4	−0·5	1·32	2·98	−1·66	1·32	2·98	−1·66	0·65	Chitaldrug.
6	1	0	1	0	1	8	13	1	S 74° W	N 80° W	6·5	2·9	+3·6	58	−20	84	+ 9	·658	+·011	5·0	−0·4	9	+1·7	2·66	4·82	−2·16	2·66	4·82	−2·16	0·48	Hassan.
1	0	0	0	3	0	12	14	1	S 65° W	S 75° W	8·0	4·6	+3·4	76	− 7	79	+ 4	·649	−·015	7·5	+3·2	7	+0·2	7·84	4·16	+3·68	7·84	4·16	+3·68	2·05	Bangalore.
0	0	1	1	1	0	12	16	0	S 69° W	S 74° W	6·9	7·4	−0·5	76	0	77	+ 1	·662	−·022	8·3	+2·4	5	−2·8	3·32	5·28	−1·96	3·32	5·28	−1·96	1·22	Mysore.

*Mean of 27 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs. in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·763	—·063	29·767	29·847	31st	29·661	13th	80·5	76·3	86·7	—5·1	76·2	—2·4	81·5	—3·7	10·5	93·5	5th	71·9	22nd
	Calicut	27	29·811	—·047	29·768	29·893	31st	29·703	10th	78·8	76·9	83·7	—6·5	75·9	—2·2	79·8	—4·3	7·8	90·2	7th	72·3	21st
	Cochin	9	29·846	—·039	29·783	29·926	31st	29·761	10th	80·1	75·9	86·3	—3·4	76·1	—1·4	81·2	—2·4	10·2	93·4	6th & 7th	72·2	21st
	Trivandrum	198	29·657	—·032	29·786	29·736	28th	29·578	10th	78·7	75·9	84·0	—2·4	75·8	—2·3	79·9	—2·3	8·2	89·8	4th	72·9	22nd
31	Pamban	37	29·763	—·043	29·727	29·830	30th	29·713	18th	85·0	76·8	88·7	—2·7	77·0	—4·2?	82·8	—3·5?	11·7	90·7	31st	76·0	7th
	Madura	447	29·355	—·037	29·729	29·426	30th	29·299	18th	83·8	75·3	95·9	—4·1	77·8	+0·2	86·9	—1·9	18·1	103·1	4th	73·8	10th
	Pudukkottai	318	29·484	—·041	29·730	29·554	30th	29·430	12th	81·6	74·4	99·1	—2·2	78·6	—0·6	88·8	—1·4	20·5	105·5	4th	72·4	8th
	Negapatam	31	29·767	—·030	29·727	29·824	1st, 30th & 31st.	29·712	12th	85·2	78·7	95·5	—2·1	80·2	0	87·8	—1·1	15·3	102·5	16th	74·9	20th
	Trichinopoly	255	29·553	—·028	29·739	29·622	30th	29·493	12th	84·7	75·4	99·5	—2·2	78·8	+0·1	89·1	—1·1	20·7	106·1	4th	75·7	9th & 17th
	Coimbatore	1,341	28·484	—·033	29·748	28·547	30th	28·413	12th	79·6	73·1	89·3	—5·5	72·4	—1·1	80·7	—3·2	15·9	99·2	3rd	66·5	6th
	Salem	913	28·900	— 029	29·742	28·967	31st	28·843	12th	80·2	74·3	95·4	—4·1	75·3	—0·9	85·4	—2·5	20·1	103·3	3rd	72·2	4th
	Cuddalore	37	29·744	—·035	29·711	29·822	1st	29·678	21st	85·1	77·4	95·8	—2·9	79·4	—0·7	87·6	—1·8	16·4	101·6	16th	75·4	16th
	Vellore	707	29·067	—·053	29·704	29·152	1st	29·001	19th	83·0	75·1	98·3	—1·5	77·1	—1·4	87·7	—1·5	21·2	105·0	4th	72·6	25th
	Madras	22	29·738	—·047	29·691	29·827	1st	29·659	22nd	86·1	78·4	96·6	—1·9	79·8	—1·4	88·2	—1·7	16·8	102·8	16th	73·1	17th
32	Cuddapah	428	29·331	—·057	29·689	29·403	1st	29·275	17th	87·6	77·5	97·6	—8·7?	81·6	—1·8	89·6	—5·3?	16·0	105·1	5th	76·1	16th
	Bellary	1,475	28·299	—·068	29·065	29·366	1st	28·241	11th	82·9	74·1	97·1	—5·4	76·1	—1·5	86·6	—3·5	21·0	105·1	4th & 5th	68·7	18th
	Kurnool	923	28·845	—·045	29·697	28·918	30th	28·776	22nd	83·2	75·0	99·3	—5·8	78·6	—2·4	88·9	—4·1	20·7	106·9	4th *	71·2	18th
33	Nellore	66	29·674	—·044	29·675	29·753	1st & 8th	29·586	20th	86·4	79·0	98·8	—6·4	79·8	—1·8	89·3	—4·1	19·0	103·6	4th	74·1	29nd
	Masulipatam	15	29·721	—·048	29·671	29·828	1st	29·605	21st	86·8	79·7	98·0	—1·9	80·1	—1·6	89·1	—1·7	17·9	106·4	21st	74·2	17th
	Cocanada	26	29·698	—·059	29·661	29·830	1st	29·558	22nd	86·6	79·4	98·3	—1·6	81·2	—1·1	89·8	—1·3	17·1	105·7	26th	74·2	18th
	Waltair (Vizagapatam)	*226*	29·475	—·065	29·639	29·627	1st	29·312	21st	85·0	78·4	91·4	—0·5	79·3	—1·6	85·4	—1·1	12·1	97·0	22nd	71·4	5th
	Calingapatam	19	29·670		29·627	29·626	1st	29·517	22nd	83·5	78·2	93·7		77·6		85·6		16·1	100·5	28th	73·3	6th
	Gopalpur	33	29·616	—·064	29·612	29·751	1st	29·465	25th	83·2	79·3	89·2	—0·8	78·4	—1·7	83·8	—1·3	10·8	93·4	12th	69·3	5th
	Bay Islands.																					
1	P. V. Fraser	8	29·674		29·608	29·820	7th & 10th.	29·510	23rd25th & 26th.	84·6	80·8											
	Port Blair	58	29·766	—·037	29·754	29·840	30th	29·668	22nd	81·7	78·1	86·7	—2·0	77·4	—1·1	82·0	—1·5	9·3	93·8	4th	75·1	16th & 21st.
	Table Island		29·704	—·051	29·728	29·799	7th	29·589	22nd	82·4	78·3	87·2	—1·9	77·7	—1·9	82·4	—1·9	9·5	92·0	3rd	73·1	23rd
	Kashmir.																					
13	Muzaffarabad		27·283			27·434	11th	27·091	27th	78·1	62·7	101·8		68·3		85·3		33·0	109·0	31st	59·9	4th
	Srinagar	5,204	24·776	—·077	24·747	24·908	1st	24·633	27th	68·0	60·0	85·1	+9·4	54·4	+2·6	69·7	+6·0	30·7	92·0	24th	46·6	3rd
	Gulmarg*	*8,569*	21·783		21·751	21·817	16th17th & 19th.	21·724	27th	66·8	53·5	73·0		43·8		58·4		29·2	77·0	25th	39·1	17th
	Dras	*10,052*	20·866	+·044	20·834	21·013	9th	20·739	27th	44·9	41·7	61·0	+0·6	34·1	+1·0	47·5	+0·8	26·9	75·3	30th	19·0	2nd
	Leh	*11,503*	19·758	+·010	19·726	19·888	8th	19·658	27th	57·0	41·3	74·5	+10·9	41·5	+4·8	58·0	+7·9	33·0	80·1	24th & 30th.	34·0	2nd
	Skardu	*7,505*	22·817	—·048	22·787	22·964	1st	22·649	27th	66·1	51·6	82·2	+10·9	56·3	+7·0	69·2	+8·9	25·9	88·5	31st	49·0	18th
	Gilgit	4,890	25·039	—·063	25·012	25·221	1st	24·847	31st	78·6	63·2	94·4	+11·1	64·9	+4·6	79·6	+7·9	29·5	102·7	11th	56·2	1st

N.B.—Elevations in italics indicate barometrical determinations.
*Mean of 16 days.

NOTE.—The barometric readings are not reduced to sea level in the case of

B—*continued.*

at 216 stations in India, etc., in May, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
1	3	2	5	4	4	4	3	5	S 4° W	N 18° E	5·9	2·8	+3·1	5	−20	82	+ 9	·847	−·012	7·9	+1·7	18	+11·6	31·31	5·77	+25·54	31·31	5·77	+25·54	4·31	Mangalore.
12	2	1	3	4	1	1	1	6	N 15° E	N 15° W	4·4	8·2	−3·8	7	−33	91	+12	·893	+·006	8·5	+3·0	23	+14·7	36·77	7·78	+28·99	36·77	7·78	+28·99	4·35	Calicut.
1	1	7	9	6	1	1	4	1	N 87° E	N 29° E	6·3	4·5	+1·8	43	− 4	82	+ 1	·840	−·056	7·3	+1·5	23	+10·9	24·23	11·58	+12·65	24·23	11·58	+12·65	4·87	Cochin.
4	5	1	0	1	1	2	5	12	N 51° W	N 16° W	5·3	5·2	+0·1	56	−12	88	+ 7	·858	−·011	7·9	+1·8	20	+ 9·9	18·37	8·54	+ 9·83	18·37	8·54	+ 9·83	2·72	Trivandrum.
0	0	0	1	6	5	19	0	0	S 20° W	S 22° W	14·9	8·5	+6·4	82	+ 9	67	−12	·814	−·151	3·4	+0·3	3	+1·5	0·85	0·78	+ 0·07	0·85	0·78	+ 0·07	0·40	Pamban.
0	2	2	2	1	0	3	12	9	N 67° W	N 38° W	5·6	4·5	+1·1	56	− 1	66	− 1	·765	−·052	8·2	+4·5	4	−0·7	2·42	2·74	− 0·32	2·42	2·74	− 0·32	1·16	Madura.
6	3	2	0	0	1	5	9	5	N 79° W		5·1			48		60	− 9	·711	−·128	5·8	+0·5	2	−1·4	1·96	2·28	− 0·32	1·96	2·28	− 0·32	1·75	Pudukkottai.
0	0	1	1	5	2	8	13	1	S 55° W	S 46° W	7·8	5·8	+2·0	56	−16	74	+6	·895	+·017	4·3	+0·2	2	0	2·69	1·68	+ 1·01	2·69	1·68	+ 1·01	2·42	Negapatam.
0	1	3	0	1	3	14	8	1	S 58° W	S 76° W	6·2	4·5	+1·7	62	−13	63	− 3	·753	−·050	5·2	+1·1	3	−1·3	0·96	3·21	− 2·25	0·96	3·21	− 2·25	0·52	Trichinopoly.
5	1	2	0	0	5	15	3	0	S 42° W	S 22° W	5·7	3·3	+2·4	56	−12	73	− 8	·733	−·095	4·5	+0·2	7	+2·1	4·74	2·34	+ 2·40	4·74	2·34	+ 2·40	1·84	Coimbatore.
4	0	3	2	0	9	12	1	0	S 19° W	S 48° W	4·6	3·0	+1·6	53	+ 3	75	+ 2	·775	−·069	6·1	+2·1	9	+1·3	4·14	4·78	− 0·34	4·44	4·78	− 0·34	1·03	Salem.
3	0	0	0	2	4	18	2	2	S 41° W	S 47° W	6·5	2·1	+4·4	72	+ 4	69	− 2	·819	−·093	5·2	+1·9	4	+2·9	2·25	0·68	+ 1·57	2·25	0·68	+ 1·57	0·93	Cuddalore.
9	0	0	1	0	0	0	19	2	N 86° W		4·2			63		68	+ 3	·763	−·032	3·9	+0·9	6	+1·8	3·41	2·31	+ 1·10	3·41	2·31	+ 1·10	1·89	Vellore.
0	0	0	0	5	10	7	8	1	S 30° W	S 41° W	5·5	6·6	−1·1	69	− 3	70	+ 5	·859	−·012	5·0	+1·0	3	+1·9	5·80	1·01	+ 4·79	5·80	1·01	+ 4·79	3·16	Madras.
0	4	1	0	2	5	2	8	9	N 77° W	N 89° W				46	−15	63	+ 9	·811	+·052	3·5	−0·3	2	−0·8	0·60	1·61	− 1·01	0·60	1·61	− 1·01	0·49	Cuddapah.
4	2	0	1	2	1	5	10	6	N 89° W	N 74° W	5·3	6·2	−0·9	49	−16	63	+13	·729	+·107	5·7	+1·4	4	+0·7	2·02	1·95	+ 0·07	2·02	1·95	+ 0·07	1·02	Bellary.
2	3	0	0	4	3	2	11	6	W	N 84° W	8·1			45	+ 9	68	+12	·763	+·051	4·9	+1·5	6	+3·8	3·86	0·96	+ 2·90	3·86	0·96	+ 2·90	2·43	Kurnool.
1	11	2	0	0	0	5	10	2	N 52° W	S 69° W	4·7	6·4	−1·7	56	+24	71	+ 8	892	+·030	6·1	+1·2	3	+2·0	3·65	0·58	+ 3·07	3·65	0·58	+ 3·07	1·42	Nellore.
2	0	0	0	5	9	2	6	7	S 44° W	S 38° W	7·9	6·5	+1·4	43	+ 2	73	− 5	·919	−·14	6·2	+1·3	4	+2·2	3·67	1·18	+ 2·49	3·67	1·18	+ 2·49	1·80	Masulipatam.
9	0	0	1	2	0	8	9	2	S 67° W	S 56° W	6·5	5·9	+0·6	4·	− 5	72	− 1	·902	−·056	6·4	+1·7	2	−0·4	0·86	1·23	− 0·37	0·86	1·23	− 0·37	0·62	Cocanada.
5	0	1	0	0	3	20	2	0	S 43° W	S 72° W	4·7			69	−14	74	+ 3	·883	−·010	6·0	+0·2	6	+3·0	3·27	2·10	+ 1·17	3·27	2·10	+ 1·17	1·45	Waltair (Vizagapatam).
3	1	0	1	1	2	7	11	5	S 81° W		8·0			58		78		·892		3·7		9	+5·7	4·13	3·20	+ 0·93	4·13	3·20	+ 0·93	1·23	Calingapatam.
0	2	1	0	1	13	13	0	1	S 23° W	S 30° W	10·3	12·8	−2·5	69	+ 1	84	+ 2	·951	−·017	4·6	+2·7	9	+5·9	7·40	1·90	+ 5·50	7·40	1·90	+ 5·50	1·39	Gopalpur.
																															Bay Islands.
0	2	0	1	3	7	16	2	0	S 29° W					68		84		1·001		5·6		4		2·60	2·33	+ 0·27	2·60	2·33	+0·27	1·05	P. V. Fraser.
12	0	0	0	0	2	9	7	1	S 61° W	S 73° W	4·6	5·4	−0·8	53	− 8	85	− 1	·914	−·039	8·5	+1·4	23	+6·6	28·71	15·84	+12·87	28·71	15·84	+12·87	4·65	Port Blair.
0	3	1	0	2	5	17	2	1	S 42° W		14·3			62		83	+ 3	·913	−·019	7·8	+0·6	18	+6·7	20·13	8·74	+11·39	20·13	8·74	+11·39	4·39	Table Island.
																															Kashmir.
20	0	0	0	0	0	11	0	0	S 45° W		1·4			36		41		·380		0·6		0		0	2·57	− 2·57	0	2·57	− 2·57	0	Muzaffarabad.
10	4	1	2	1	8	3	1	1	S 5° W	S 49° E	2·7	3·1	−0·4	17	−19	62	−21	·440	+·004	0·3	−3·2	0	−5·7	0·03*	2·44	− 2·41	0·03	2·44	− 2·41	0·03	Srinagar.
7	1	0	1	1	1	0	2	3	N 59° W		4·3†			13		44		·286		0·3		1		0·24			0·24*			0·15	Gulmarg.
31	0	0	0	0	0	0	0	0	Calm		1·8			(a)		61‡	−12	·206‡	−·014	0·9	−2·9	0	−5·9	0·05	2·73	− 2·68	0·05	2·73	− 2·68	0·05	Dras.
15	0	0	1	1	14	0	0	0	S 7° E	S 44° W	3·8	2·3	+1·5	49	+ 4	27	−14	·128	− 003	1·2	−3·4	0	−0·7	0	0·20	− 0·20	0	0·20	− 0·20	0	Leh.
29	0	0	1	0	0	1	0	0	S 23° E		6·4			2		35	−20	·224	−·036	1·2	−3·3	0	−2·7	0·01	1·20	− 1·19	0·01	1·20	− 1·19	0·01	Skr du.
30	0	0	0	0	0	1	0	0	S 45° W		0·1			3		42	− 5	·407	+·093	1·2	−3·2	0	−2·7	0	0·80	− 0·80	0	0·80	− 0·80	0	lgit.

hill or plateau stations, the elevations of which exceed 3,206 feet.

*Since 16th May 1918.
† Mean of 15 days.
‡ „ „ 24 „

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman .	4,614	25·270		25·239	25·387	11th	25·139	30th	81·0	58·7	98·8		69·3		84·1		29·5	105·5	31st	63·5	1st
	Quetta . . .	5,502	24·552	—·050	24·512	24·651	1st	24·446	30th	66·8	57·5	90·1	+6·7	55·2	+3·3	72·6	+5·0	34·9	95·9	23rd	48·3	1st
	Chaman . . .	4,311	25·538	—·102	25·500	25·642	1st	25·412	30th	81·0	67·1	96·6	+5·7	68·9	+4·9	82·8	+5·3	27·7	103·2	23rd	64·1	1st
	Kalat . . .	6,680	23·692		23·654	23·777	1st	23·591	30th	62·5	52·7	88·1	+4·5	51·5		69·8		36·6	96·2	24th	46·8	15th
	Dalbandin . .	2,772	26·933		26·896	27·047	1st & 14th	26·812	30th	83·8	65·0	109·8							111·0	25th		
	Pasni . . .		29·665		29·625	29·779	2nd	29·556	21st	82·1	78·4	93·7		73·3		85·5		20·4	104·3	13th	65·7	3rd
	Panjgur . . .		26·566		26·521	26·677	7th	26·456	22nd	74·9	63·2	102·7		70·5		86·6		32·2	109·4	23rd	65·2	3rd
	Robat . . .		26·709		26·667	26·853	11th	26·561	22rd	81·3	64·3	101·8		68·6		85·2		33·2	110·1	5th	60·0	12th
	Seistan (c) . .		27·342			28·110	11th	27·740	22nd & 23rd	75·1	62·2	95·8		70·1		82·9		25·7	108·9	23rd	59·9	10th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar . .	6,000	24·352	—·023	24·328	24·476	11th	24·245	29th & 31st	75·8	58·4	88·5	+9·5	61·6	+5·9	75·1	+7·7	26·9	96·0	30th	54·1	1st
	Cherat . . .	*4,256*	25·554	—·053	25·522	25·696	9th & 10th	25·402	27th	81·5	58·4	93·6	+6·5	73·2	+6·1	83·4	+5·3	20·4	100·2	23rd, 24th & 31st.	65·4	3rd & 11th.
	Drosh (c) . .		24·973			25·125	1st	24·825	30th & 31st	74·2	58·1	92·7	+11·0	65·8	+7·2	79·3	+9·1	26·9	101·5	27th	44·0	12th
	Murree . . .	6,333	23·718	—·083	23·686	23·847	10th	23·607	27th	73·0	55·3	83·2	+7·1	69·2	+10·3	76·2	+8·7	14·0	90·1	22nd	61·2	3rd
	Simla . . .	7,232	23·050	—·023	23·012	23·183	10th	23·948	29th	67·1	55·3	74·1	+1·1	62·1	+3·8	68·1	+2·5	12·0	80·4	28th	48·5	7th
	Chakrata . .	7,072	23·280	?	23·240	23·413	10th	23·170	29th	66·0	57·2	77·9	+3·7	61·7	+4·9	69·8	+4·3	16·2	84·9	31st	50·5	1st
	Mukteswar . .	7,592	22·772	—·063	22·731	22·902	10th	22·660	9th	63·0	57·1	74·1	—0·6	55·7	+1·3	65·6	+0·3	17·7	80·3	26th	48.0	7th
	Darjiling . . .	7,432	22·883	—·043	22·838	23·013	10th	22·769	30th	56·4	57·0	65·5	+1·5	54·8	+2·7	60·2	+2·1	10·7	72·5	11th	48·4	2nd
	Shillong . . .	4,920	25·031	—·049	25·983	25·161	4th	24·881	26th	67·3	63·0	72·7	—1·7	59·9	+1·1	66·3	—0·3	12·8	79·3	27th	54·0	1st
	Cherrapunji . .	4,309	25·578	—·062	25·529	25·704	4th	25·417	26th	66·3	64·6	72·1	—0·2	62·5	+2·5	67·3	+1·1	9·6	79·5	11th	55·1	2nd
	Netarhat . . .		26·047		25·996	26·188	2nd	25·928	28th & 31st.	77·8	67·1	91·7		65·7		78·7		26·0	97·2	21st	60·0	5th
	Maymyo . . .	3,528	26 316	—·064	26·261	26·435	6th	26·103	26th	70 0	67·0	78·1	—4·6	64·2	0	71·2	—2·3	13·9	86·2	1st	59·0	9th
	Pachmarhi . .	3,528	26·297	—·091	26·244	26·401	9th	26·216	17th	81·0	66·2	96·4	+0·8	76·7	+1·4	86·6	+1·1	19·7	101·0	11th	71·1	31st
	Mount Abu . .	3,945	25·919	—·071	25·869	26·015	9th	25·846	17th	78·4	62·6	87·9	—0·3	70·8	—0·4	79·4	—0·3	17·1	95·2	14th	65·4	27th & 28th.
	Mercara . . .	3,781	26·142	—·068	26·075	26·292	30th	26·064	12th	66·7	65·3	75·4	—5·0	62·7	—1·8	69·0	—3·4	12.7	86·8	7th	60·0	6th
	Ootacamund . .	*7,327*	23·002	—·048	22·933	23·066	1st	22·914	12th	59·5	55·8	66·4	—2·5	53·0	+0·2	59·7	—1·7	13·4	73·5	2nd	48·2	1st
	Kodaikanal . .	7,698	22·772	—·061	22·707	22·826	31st	22·722	12th	59·0	54·4	66·6	—2·4	53·4	—1·5	60·0	—1·9	13·2	74·4	3rd	49·8	7th
	Extra India.																					
	Singapore(a) . .	10	29·818	—·107	29·749	29·888	23rd	29·728	4th	83·1		87·8	—0·9	74·5	—0·6	81·1	—0·7	13·3	91·5	27th	72·5	19th
	Penang (a) . .	17	29·809	—·101	29·751	29·860	20th	29·768	6th	82·8		89·0	—1·7	72·8	—1·9	80·9	—1·8	16·2	93·0	26th, & 29th.	72·0	12 days.
	Trincomalee . .	99	29·799	—·023	29·736	29·777	31st	29·661	19th	80·7	75·5	93·4	+0 3	78·1	—0·6	85·8	—0·1	15·3	98·7	4th	74·7	9th
	Colombo . .	24	29·830	—·037	29·790	29·906	30th	29·783	9th	78 7	76·0	86·5	—1·8	76 3	—1·8	81·4	—1·7	10·2	89 5	5th	71·0	18th
	Hambantota .	64	29·795		29·735	29·841	31st	29·744	5th	77·5	75·6	86·1		76·1		81·1		10·0	91·5	29th	73·3	10th
	Minicoy . .	7	29·872	—·023		29·935	30th	29·895	10th.													
	Amini Divi . .	*13*	29·820	—·036	29·761	29 891	30th	29·690	12th	82·9	78·4	88·0	—2·8	78·4	—2·1	83·2	—2·5	9·6	97·4	1st	73·1	10th
	Gyantse . .	13,110																				
	Pharijong . .	14,400																				
	Gangtok . .	5,667	24·371	—·050	24·327	24·503	2nd	24·231	27th	63·0	60·5	72·7	+0·3	58·5	+8·0	65·6	+4·1	14·2	79·9	26th	51·2	7th

N.B.—Elevations in italics indicate barometrical determinations.

(a) 9 hrs. observations.

(c) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,300 feet.

B—*continued.*

at 216 stations in India, etc., in May, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E	S.E.	S.	S.W.	W	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	25	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	54	55
																															Baluchistan.
25	0	0	0	0	2	2	2	0	S 45° W		2·0			13		23		·235		0·2		0		0·02	0·40	−0·38	0·02	0·40	−0·38	0·01	Fort Sandeman.
27	0	0	1	3	0	0	0	0	S 56° E	N 86° W	1·9	2·4	−0·5	10	+6	56	+12	·369	+·045	0·4	−0·6	0	−1·0	0	0·35	−0·35	0	0·35	−0·35	0	Quetta.
4	0	1	2	10	9	3	1	1	S 20° E	S 32° W	4·7	5·5	−0·8	59	+13	49	+14	·514	+·187	0·6	−0·2	0	−0·4	0	0·09	−0·09	0	0·09	−0·09	0	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 34° W	3·6			(a)		52	+ 8	·298	+·006	0·5		0	−0·8	0·09	0·22	−0·13	0·09	0·22	−0·13	0·09	Kalat.
0	0	10	8	4	5	3	0	1	S 81° E		4·4			49		34		·389		0		0		0	0·02	−0·02	0	0·02	−0·02	0	Dalbandin.
0	0	1	8	4	0	5	9	2	S 30° W		7·1			17		84		·922		4·9		0		0	0	0	0	0	0	0	Pasni.
2	0	1	8	4	0	5	9	2	S 30° W		7·1			17		84		·922		4·9		0		0	0	0	0	0	0	0	Pasni.
12	0	8	9	0	0	2	0	0	N 72° E		3·8			46		52		·419		0·9		1		0·35			0·35			0·35	Panjgur.
10	0	5	5	0	0	5	5	1	N 45° W		3·5			3		37		·398		0·4		0		0	0·03	−0·03	0	0·03	−0·03	0	Robat.
3	1	0	0	0	3	0	0	27	N 44° W		9·2			92		47		·402		0·1		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		1·6			(a)		34	−12	·296	−·014	0·5	−1·9	1	−6·8	0·40	2·45	−2·05	0·40	2·45	−2·05	0·33	Para Chinar.
3	11	0	0	0	1	0	2	14	N 31° W	N 6° W	6·2	8·8	−2·6	76	+29	22	−15	·225	−·072	0·1	−1·8	1	−1·8	0·56	1·58	−1·02	0·56	1·58	−1·02	0·52	Cherat.
24	0	1	4	2	0	0	0	0	S 83° E		2·3*			20		36	−24	·300	−·066	0·8	−1·5	1	−3·6	0·23	2·10	−1·87	0·23	2·10	−1·87	0·16	Drosh.
16	14	0	0	1	0	0	0	0	N 3° E	N 7° E	3·6	5·8	−2·2	43	+28	32	− 9	·251	−·015	0·4	−2·1	0	−5·2	0·06	2·87	−2·81	0·06	2·87	−2·81	0·06	Murree.
																48	+ 4	·317	+·063	0·7	−1·8	4	−0·8	1·15	2·70	−1·55	1·15	2·70	−1·55	0·46	Simla.
2	0	2	1	0	0	19	4	3	S 60° W	N 21° E	8·4	5·7	+2·7	66	+56	61	+13	·379	+·110	2·2	+0·2	6	+0·8	1·46	2·52	−1·06	1·46	2·52	−1·06	0·47	Chakrata.
6	0	0	0	0	0	5	20	0	S 82° W		7·4			76		71	+23	·406	+·134	2·1	−0·1	3	−2·4	1·13	2·16	−1·03	1·13	2·16	−1·03	0·34	Mukteswar.
22	2	1	1	3	0	0	1	1	N 58° E	S 59° W	1·3	5·0	−3·7	7	− 4	92	+ 4	·454	+·037	9·6	+2·8	16	+2·1	10·06	8·90	+1·16	10·06	8·90	+1·16	1·55	Darjiling.
24	0	0	3	1	2	1	0	0	S 42° E		1·9			13		79	+ 7	·530	+·059	7·3	+2·0	16	−0·1	11·95	11·12	+0·83	11·95	11·12	+0·83	3·82	Shillong.
2	2	6	9	3	3	3	3	0	S 84° E		3·4			33		92	+ 6	·568	+·038	8·8	+2·1	23	+1·6	50·52	43·49	+7·03	50·52	43·49	+7·03	7·48	Cherrapunji.
2	0	0	0	1	3	9	11	5	S 71° W		5·7			63		58		·543		1·5		7		2·62			2·62			1·00	Netarhat.
18	1	0	0	1	3	6	2	0	S 39° W		1·3			30		86	+ 6	·626	−·015	7·2	+2·5	19	+6·5	14·32	10·16	+4·16	14·32	10·16	+4·16	2·26	Maymyo.
1	0	0	1	0	1	5	14	9	N 86° W	N 81° W	6·1	5·5	+0·6	76	+13	47	+12	·476	+·084	2·9	+1·2	0	−1·3	0·07	0·52	−0·45	0·07	0·52	−0·45	0·07	Pachmarhi.
2	1	3	0	2	3	12	6	2	S 56° W	S 72° W	6·8	7·9	−1·1	46	−22	46	+ 9	·421	+·080	1·6	+0·9	1	−0·2	0·52	0·68	−0·16	0·52	0·68	−0·16	0·49	Mount Abu.
8	1	2	1	1	1	7	8	2	S 76° W	N 45° W	3·1	3·9	−0·8	37	−28	93	+ 7	·604	−·007	9·0	+2·7	21	+12·3	14·08	5·58	+8·50	14·08	5·58	+8·50	2·02	Mercara.
5	0	1	1	4	4	3	9	4	S 60° W		3·8			33		81	+18	·407	+·042	8·6	+4·3	17	+5·3	9·01	6·96	+2·05	9·01	6·96	+2·05	2·02	Ootacamund.
0	5	0	0	3	0	3	13	7	N 72° W		10·2			62		76	+ 9	·377	+·023	7·1	+2·9	11	−0·5	5·06	6·01	−0·95	5·06	6·01	−0·95	1·67	Kodaikanal.
																															Extra India.
13	1	1	3	5	1	3	0	4	S 47° E					10						7·1	+2·2	12	+3·1	7·61	6·14	+1·47	7·61	6·14	+1·47	1·81	Singapore.
0	1	17	1	7	1	0	0	4	N 57° E					59								10	−0·9	4·13	9·54	−5·41	4·13	9·54	−5·41	1·61	Penang.
5	0	0	0	0	2	16	8	0	S 56° W	S 45° W	7·1	8·8	−1·7	76	−21	77	− 4	·810	−·105	5·5	+2·9	2	−1·4	1·25	2·33	−1·08	1·25	2·33	−1·08	0·91	Trincomalee.
11	1	0	0	1	1	10	6	1	S 62° W	S 45° W	3·8	6·7	−2·9	46	−32	88	+ 5	·856	−·074	8·4	+1·9	19	+6·2	13·08	10·92	+2·16	13·08	10·92	+2·16	2·03	Colombo.
3	1	0	0	0	0	5	19	3	S 89° W		10·3			80		91		·856		6·0		10	+1·1	4·09	3·21	+0·88	4·09	3·21	+0·88	0·56	Hambantota.
0	1	0	0	0	0	5	18	7	N 86° W	N 68° W	9·8	7·4	+2·4	87	+11					6·1	+0·9	16	+7·1	19·40	5·78	+13·62	19·40	5·78	+13·62	5·70	Minicoy.
0	3	1	0	0	0	9	12	6	N 85° W		12·7			71		81	+ 5	·911	−·020	7·9	+2·1	18	+13·7	18·86	2·96	+15·90	18·86	2·96	+15·90	4·17	Amini Divi.
																									0·45			0·45			Gvantse.
																									2·05			2·05			Pharijong.
29	0	2	0	0	0	0	0	0	N 45° E		0·3			3		86	+ 4	·506	+·032	0·5	−0·5	18	−2·2	10·06	19·11	−9·05	10·06	19·11	−9·05	1·53	Gangtok.

* Mean of 22 days.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of Sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (c)	15,100																				
	Kashgar (c)	4,255	25·431	—·119		25·665	12th	25·250	26th	73·5	61·5	91·5	+10·5	62·0	+4·3	76·7	+7·4	29·5	101·3	10th	51·3	12th
	Kabul (c)*		24·039	—·201		24·160	10th	23·940	24th & 29th	58·7	51·6	79·4	−2·2	53·8	+2·0	66·6	−0·1	25·6	92·4	25th	45·2	5th
	Meshed	3,104								64·6	56·5	84·1	+5·8	54·2	−1·3	69·1	+2·3	29·9	95·4	23rd	44·8	12th
	Jask	13	29·624	—·129	29·591	29·758	1st	29·450	22nd	81·7	76·3	92·8	+ 0·6	78·3	−0·1	85·5	+0·3	14·5	99·1	23rd	72·6	11th
	Muscat	20	29·639	—·114	29·607	29·805	1st	29·470	22nd	90·5	76·1	97·1	+3·4	85·5	−0·2	91·3	+1·6	11·6	107·5	22nd	82·1	11th
	Bushire	14	29·718	—·073	29·694	29·891	8th	29·544	18th	80·2	70·0	86·2	−2·9	75·7	+0·1	80·8	−1·4	10·5	100·0	20th	68·7	13th
	Busrah	25	29·779	—·073	29·773	29·994	8th	29·588	18th	82·9	70·3	94·8	+0·9	72·0	−2·3	83·4	−0·7	22·8	107·1	19th	62·8	7th
	Kerman (c)																					
	Ispahan (c)	*5,817*	24·273	—·107		24·480	11th	24·170	18th & 28th	65·2	52·9	83·0	+0·6	56·2	+2·6	69·5	+1·6	26·8	90·4	22nd	46·2	1st, 8th & 9th.
	Tehran (c)	*4,002*	25·663	—·217		25·920	11th	25·540	22nd	70·3	59·3	83·8	+1·0	60·6	+3·2	72·2	+2·1	23·2	92·1	15th	49·0	8th
	Baghdad	127	29·639			29·698	8th	29·401	18th	72·8	62·5	93·2	−0·5	68·1	−0·2	80·7	−0·3	25·1	102·9	13th	52·5	7th.
	Aden	94	29·703	—·076	29·729	29·821	1st	29·583	21st	84·1	80·3	92·3	−0·5	81·6	+0·3	86·9	−0·1	10·7	95·6	21st	76·9	5th
	Zanzibar	72	30·015	+·010	30·013	30·073	21st	29·938	2nd	77·6	74·2	83·7	+1·2	75·5	−0·1	79·6	+0·5	8·2	86·1	11th	73·2	1st

N.B.—Elevations in italics indicate barometrical determinations.

NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(c) Aneroid.

* Mean of 29 days.

B—*concluded.*

at 216 stations in India, etc., in May, 1918—*concluded.*

WIND DIRECTION.											WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.								STATION.
Number of winds from									Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																						
23	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	54	55
																															Extra India—*concld.*
																															Gartok.
22	1	3	0	2	0	0	0	3	N 14° E	N 50° W	1·6	3·3	−1·7	13	0	50	+ 6	·416	+·129	1·3	−1·8	0	−1·2	0	0·70	−0·70	0	0·70	−0·70	0	Kashgar.
0	4	1	0	0	2	6	12	4	N 87° W	N 34° W				62	+51	63	+ 8	·313	−·035	7·9	+6·7	1	−1·4	0·47	0·78	−0·31	0·47	0·78	−0·31	0·45	Kabul.
25	2	0	1	0	3	0	0	0	S 45° E		1·9			3		59	− 1	·358	−·059	3·0	+0·4	0	−3·3	0	1·28	−1·28	0	1·28	−1·28	0	Meshed.
6	1	1	9	1	1	0	5	7	N 6° E	N 60° E	8·3	8·0	+0·3	17	+11	77	+ 9	·838	+·025	0·6	+0·1	0	0	0	0	0	0	0	0	0	Jask.
6	1	2	3	3	0	0	8	8	N 50° W	N 36° W	3·5	3·1	+0·4	30	−12	52	− 7	·715	−·093	0·1	−0·6	0	0	0	0	0	0	0	0	0	Muscat.
15	1	1	2	0	0	1	2	9	N 41° W	N 25° W	3·0*	6·9	−3·9	30	−25	59	− 3	·600	−·078	1·4	−0·8	0	0	0·05	0·02	+0·03	0·05	0·02	+0·03	0·05	Bushire.
0	4	2	0	1	2	2	16	4	N 77° W		7·3			58		51		·571		1·0		0	−1·2	0	0·33	−0·33	0	0·33	−0·33	0	Busrah.
																															Kerman.
26	0	0	1	0	0	2	2	0	S 63° W	N 58° W	1·7	3·4	−1·7	6	−42	46	−15	·280	−·121	1·3	−0·9	1	+0·1	0·16	0·23	−0·07	0·16	0·23	−0·07	0·15	Ispahan.
23	0	1	1	1	0	5	0	0	S 18° W	S 46° W	4·9	2·6	+2·3	10	−6	52	+ 5	·382	+·046	3·1	+0·6	1	−0·9	0·22	0·48	−0·26	0·22	0.48	−0·26	0·12	Tehran.
										N 1° E	9·0	2·9	+6·1			56		·430		1·5		1	+0·3	0·18	0·21	−0·03	0·18	0·21	−0·03	0·16	Baghdad.
11	2	8	0	4	3	3	0	0	S 87° E	S 87° E	6·2	8·2	−2·0	20	−19	84	+10	·987	+·072	1·6	−1·7	0	−0·3	0	0·12	−0·12	0	0·12	−0·12	0	Aden.
0	0	0	0	2	14	15	0	0	S 19° W	S 7° W	5·5	5·9	−0·4	90	+ 3	85	− 1	·799	−·015	5·3	−1·4	4	−8·3	9·66	10·97	−1·31	9·66	10·97	−1·31	4·60	Zanzibar.

* Mean of 8 days.

Table C.—Abstract of observations taken at 8 hrs. at 64 fourth and fifth class stations in India, etc., in May, 1918.

Table

Abstract of observations taken at 8 hrs. at 64 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E	E.	S.E.	S.	S. W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	79·3	74·2	91·1	+4·3	72·9	+5·6	82·0	+4·9	18·2	99·3	12th	65·1	8th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·3	78·2	91·1	+3·2	71·2	+1·3	81·1	+2·8	19·9	99·0	27th	64·4	1st	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	78·3	77·4	89·9	+0·2	71·4	+2·2	80·7	+1·2	18·5	99·6	10th	64·1	4th	..	..	...	...	..	...	...	...	...	...	...
	Doom Dooma	77·8	73·7	91·5	+5·2	71·5	+3·4	81·5	+4·3	20·0	100·7	26th	62·2	3rd	..	...		..	...	...	...	...	...	...	...
	Dikom	78·6	74·6	90·4	+4·2	72·4	+2·4	81·4	+3·3	18·0	100·2	27th	63·0	3rd	...	..	...	...	...	...	...	...	...	...	...
	Golaghat	77·2	75·8	87·9	+2·1	70·4	...	79·1	...	17·5	95·0	12th	61·2	2nd	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	78·6	75·2	89·1	−1·0	70·2	−1·7	79·7	−1·3	18·9	95·4	11th	62·8	11th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	78·3	74·7	89·3	+3·1	75·4	+4·3	82·3	+3·7	15·9	96·5	27th	71·0	2nd & 18th.	...	...	...	...	...	..	...	...	...	...	...
	Lumding	78·7*	75·3*	90·3*	...	72·8*	...	81·5*	...	17·5	96·7	1st & 27th.	66·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Messa	84·9	77·3	94·9	+3·3	71·6	+2·9	83·3	+3·1	23·3	99·1	12th	67·3	7th	...	...	...	...	..	...	...	...	..	...	...
	Panerihat	74·8	72·2	90·6	+5·6	70·2	+1·4	80·4	+3·5	20·4	97·3	27th	63·8	3rd	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·5	76·8	89·3	−1·6	73·9	+0·2	81·6	−0·7	15·4	94·4	1st	69·7	3rd	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
	Goalundo	84·1	78·9	90·7	−1·9	74·6	+1·2	82·7	−0·3	16·1	94·9	27th	70·1	1st	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·8	77·5	92·2	−3·5	75·3	+2·0	83·7	−0·7	16·9	99·0	26th & 27th.	69·7	1st	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	78·2	75·1	91·6	+1·1	70·1	+0·2	80·9	+0·7	21·5	97·7	12th	63·1	2nd	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·8	76·8	89·9	+1·1	72·4	+2·3	81·1	+1·7	17·5	96·1	25th & 26th.	65·0	6th & 7th.	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·3	75·0	91·3	+3·0	69·0	−1·2	80·1	+0·9	22·3	94·1	15 days	65·0	7 days	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Baniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 30 days.

C.

and fifth class stations in India, etc., in May, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	81	−11	·803	+ ·002	...	...	12	− 2·0	18·26	9·83	+ 8·43	18·26	9·83	+ 8·43	4·75	Bishnath.
...	...	...	...	...	91	+ 4	·948	+ ·150	...	...	13	− 0·4	7·88	9·72	− 1·84	7·88	9·72	− 1·84	1·68	Borjuli.
...	...	...	...	...	96	+12	·930	+ ·131	...	...	15	− 0·4	14·98	16·85	− 1·87	14·98	16·85	− 1·87	2·38	Chandkhira.
...	...	...	...	...	83	− 9	·778	− ·004	...	...	11	− 1·7	12·30	8·78	+ 3·52	12·30	8·78	+ 3·52	3·05	Doom Dooma.
...	...	...	...	...	83	− 4	.802	+ ·049	...	...	12	− 1·2	7·06	10·86	− 3·80	7·06	10·86	− 3·80	2·15	Dikom.
...	...	...	...	...	90	0	·874	+ ·075	...	...	10	− 2·7	7·81	9·00	− 1·19	7·81	9·00	− 1·19	2·38	Golaghat.
...	...	...	...	...	85	− 2	·831	+ ·034	...	...	20	+ 5·5	20·05	16·69	+ 3·36	20·05	16·69	+ 3·36	4·65	Hailakandi.
...	...	...	...	...	84	− 2	·810	+ ·029	...	...	12	− 1·2	12·11	10·94	+ 1·17	12·11	10·94	+ 1·17	2·71	Jorehat.
...	...	...	...	...	85*	...	·830*	...	...	...	12	+ 3·2	8·17	5·55	+ 2·62	8·17	5·55	+ 2·62	1·21	Lumding.
...	...	...	...	...	70	−11	·840	+ ·037	...	...	13	− 0·8	13·55	8·49	+ 5·06	13·55	8·49	+ 5·06	4·00	Messa.
...	...	...	...	...	89	− 2	·762	+ ·051	...	...	7	− 8·0	10·86	11·09	− 0·23	10·86	11·09	− 0·23	6·00	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	13	+1·1	13·30	12·56	+ 0·74	13·30	12·56	+ 0·74	3·98	Comilla.
...	...	...	...	...	80	− 2	·854	− ·021	...	...	14	+ 2·7	9·87	14·72	− 4·85	9·87	14·72	− 4·85	2·97	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	14	+ 3·3	14·90	9·13	+ 5·77	14·90	9·13	+ 5·77	6·96	Faridpur.
...	...	...	...	...	79	0	·923	+ ·037	...	...	11	+ 1·3	10·81	8·50	+ 2·31	10·81	8·50	+ 2·31	3·10	Goalundo.
...	...	...	...	...	78	− 4	·873	− ·013	...	...	5	− 3·0	8·74	7·65	+ 1·09	8·74	7·65	+ 1·09	4·55	Pabna.
...	...	...	...	...	...	...	...	...	...	...	8	− 2·5	7·31	8·41	− 1·10	7·31	8·41	− 1·10	3·25	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	10	+ 2·4	10·82	5·73	+ 5·09	10·82	5·73	+ 5·09	2·78	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	8	+ 2·3	10·66	4·53	+ 6·13	10·66	4·53	+ 6·13	2·85	Malda.
...	...	...	...	...	...	...	...	...	...	...	9	− 3·0	10·40	11·47	− 1·07	10·40	11·47	− 1·07	4·30	Rangpur.
...	...	...	...	...	87	− 2	·832	+ ·020	...	...	16	+ 2·5	18·72	15·51	+ 3·21	18·72	15·51	+ 3·21	4·55	Dam Dim.
...	...	...	...	...	83	+ 1	·880	+ ·033	...	...	15	+ 2·3	25·56	14·92	+10·64	25·56	14·92	+10·64	5·78	Kalchini.
...	...	...	...	...	78	− 5	·803	+ ·034	...	...	18	+ 3·5	16·88	14·60	+ 2·28	16·88	14·60	+ 2·28	2·80	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	12	− 2·3	15·83	16·22	− 0·39	15·83	16·22	− 0·39	6·00	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	6	− 1·8	11·32	7·14	+ 4·18	11·32	7·14	+ 4·18	5·45	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	8	+ 2·1	4·31	4·46	− 0·15	4·31	4·46	− 0·15	2·65	Bankura.
...	...	...	...	...	...	...	...	...	...	...	6	+ 0·6	2·30	4·07	− 1·77	2·30	4·07	− 1·77	1·23	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	6	+ 2·0	3·37	2·21	+ 1·16	3·37	2·21	+ 1·16	1·13	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	4	0	2·26	3·24	− 0·98	2·26	3·24	− 0·98	1·20	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	6	+ 2·4	2·93	2·50	+0·43	2·93	2·50	+ 0·43	1·74	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	7	+ 2·9	9·19	2·87	+ 6·32	9·19	2·87	+ 6·32	2·82	Motihari.
...	...	...	...	...	...	...	...	...	...	...	4	+ 2·2	4·09	1·53	+ 2·56	4·09	1·53	+ 2·56	2·64	Chapra.
...	...	...	...	...	...	...	...	...	...	...	4	+ 2·0	1·24	1·48	− 0·24	1·24	1·48	− 0·24	0·60	Arrah.
...	...	...	...	...	...	...	...	...	...	...	2	+ 0·6	1·09	0·77	+ 0·32	1·09	0·77	+ 0·32	0·71	Dehri.

* Mean of 30 days.

Table

Abstract of observations taken at 8 hrs. at 64 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.									
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
25	Chhindwara	86·7	71·2	102·5	...	78·3	...	90·4	...	24·2	107·1	11th	70·4	28th	5	2	0	1	1	1	4	7	10	N 72° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	82·5	78·1	98·4	...	77·2	...	87·8	...	21·2	104·6	4th	69·3	18th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	86·4	80·4	101·6	...	80·8	...	91·2	...	20·8	108·2	20th	75·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Koraput	75·6	69·3	89·8	...	69·1	...	79·4	...	20·7	98·0	8th	64·3	16th	...	...	.	...	..	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	89·7	77·0	103·7	...	81·4	...	92·6	...	22·3	109·9	27th	73·1	1st	0	10	17	3	0	0	1	0	0	N 24° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	Kargil	60·5	47·6	80·9	...	42·4	...	61·7	...	38·5	88·9	30th	33·2	2nd	6	20	2	0	0	0	0	0	3	N 2° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	77·7	73·1	87·2	−0·7	71·9	+1·8	79·5	+0·5	15·3	94·1	11th	66·2	5th	...	...	...	...	...	...	...	...	..	...	...
	Kurseong	67·7	67·1	73·1	+0·4	61·6	+0·9	67·3	+0·7	11·5	77·5	10th	54·9	7th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	78·4	+10·2	53·2	+6·5	65·8	+8·3	25·2	87·3	22nd	45·6	1st	7	0	0	1	7	8	8	0	0	S 1° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	91·6	+3·2	52·5	+1·6	72·1	+2·4	39·1	96·7	25th	47·1	1st	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in May, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·5	0	0·59	−0·59	0	0·59	−0·59	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	3	−0·3	1·82	1·42	+0·40	1·82	1·42	+0·40	1·02	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	1	−0·6	0·12	0·73	−0·61	0·12	0·73	−0·61	0·10	Udaipur.
																				XII.—Central Provinces
2·2	...	...	52	...	47	...	·572	...	3·9	...	2	...	1·36	0·46	+0·90	1·36	0·46	+0·90	1·00	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	6	+4·8	4·51	0·50	+4·01	4·51	0·50	+4·01	1·57	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	5	+2·3	2·51	1·42	+1·09	2·51	1·42	+1·09	0·85	Tinnevelly.
...	...	...	...	...	82	...	·910	...	5·5	...	4	+1·1	2·61	2·22	+0·39	2·61	2·22	+0·39	1·62	Anantapur.
...	...	...	...	...	76	...	·952	...	1·3	...	6	+3·1	3·44	1·49	+1·95	3·44	1·49	+1·95	1·46	Guntur.
...	...	...	...	...	73	...	·644	...	...	...	8	...	5·38	...	...	5·38	...	...	1·33	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	20	+3·5	19·08	13·08	+6·00	19·08	13·08	+6·00	1·92	Car Nicobar.
																				Kashmir.
...	...	...	81	...	55	...	·778	...	0·1	...	1	−1·1	0·24	0·55	−0·31	0·24	0·55	−0·31	0·24	Jammu.
...	...	...	...	...	...	...	...	...	...	...	4	−5·8	0·51	5·06	−4·55	0·51	5·06	−4·55	0·15	Sonamarg.
...	...	...	74	...	37	...	·196	...	0·6	...	0	−3·4	0	1·09	−1·09	0	1·09	−1·09	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−0·6	0	0·19	−0·19	0	0·19	−0·19	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	80	+7	·755	+·049	...	...	15	+3·0	15·91	11·43	+4·48	15·91	11·43	+4·48	3·70	Panighatta.
...	...	...	...	...	96	+17	·654	+·143	...	...	22	+9·2	19·20	11·53	+7·67	19·20	11·53	+7·67	3·13	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	27	...	21·99	18·98	+3·01	21·99	18·98	+3·01	1·75	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	18	...	4·37	5·84	−1·47	4·37	5·84	−1·47	0·50	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	19·09	...	...	19·09	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·83	...	...	0·83	...	...	0·74	Dharampore.
											3	−1·3	1·32	2·31	−0·99	1·32	2·31	−0·99	0·70	Mussooree.
...	...	...	62	...	...	...	...	...	1·2	−1·8	0	−2·3	0·07	0·91	−0·84	0·07	0·91	−0·84	0·05	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−6·0	0·04	2·43	−2·39	0·04	2·43	−2·39	0·04	Kailang.
...	...	...	...	...	...	...	...	...	0	...	0	−0·6	0	0·16	−0·16	0	0·16	−0·16	0	Pishin.

Table

Abstract of observations taken at 8 hrs. at 64 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi*	50·5	48·5	60·9	...	44·4	...	52·7	...	16·5	67·3	24th	34·2	6th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	89·0	70·6	100·3	...	73·0	...	86·7	...	27·3	109·0	15th	61·0	6th	0	18	5	0	0	6	2	0	0	N 8° E	...
	Kirmanshah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	80·6	70·6	92·0	...	74·9	...	83·5	...	17·1	103·6	19th	60·7	7th	7	2	1	2	1	0	0	3	15	N 39° W	...
	Mohammerah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah . . .	80·9	65·9	96·6	...	69·9	...	83·3	...	26·7	107·2	19th	54·5	7th	...	...	...	...	...	...	...	...	...	...	...
	Shahroban . . .	79·4	69·6	94·2	...	61·5	...	77·9	...	32·7	103·0	14th & 15th.	50·0	7th	...	...	...	...	...	...	...	...	...	...	...

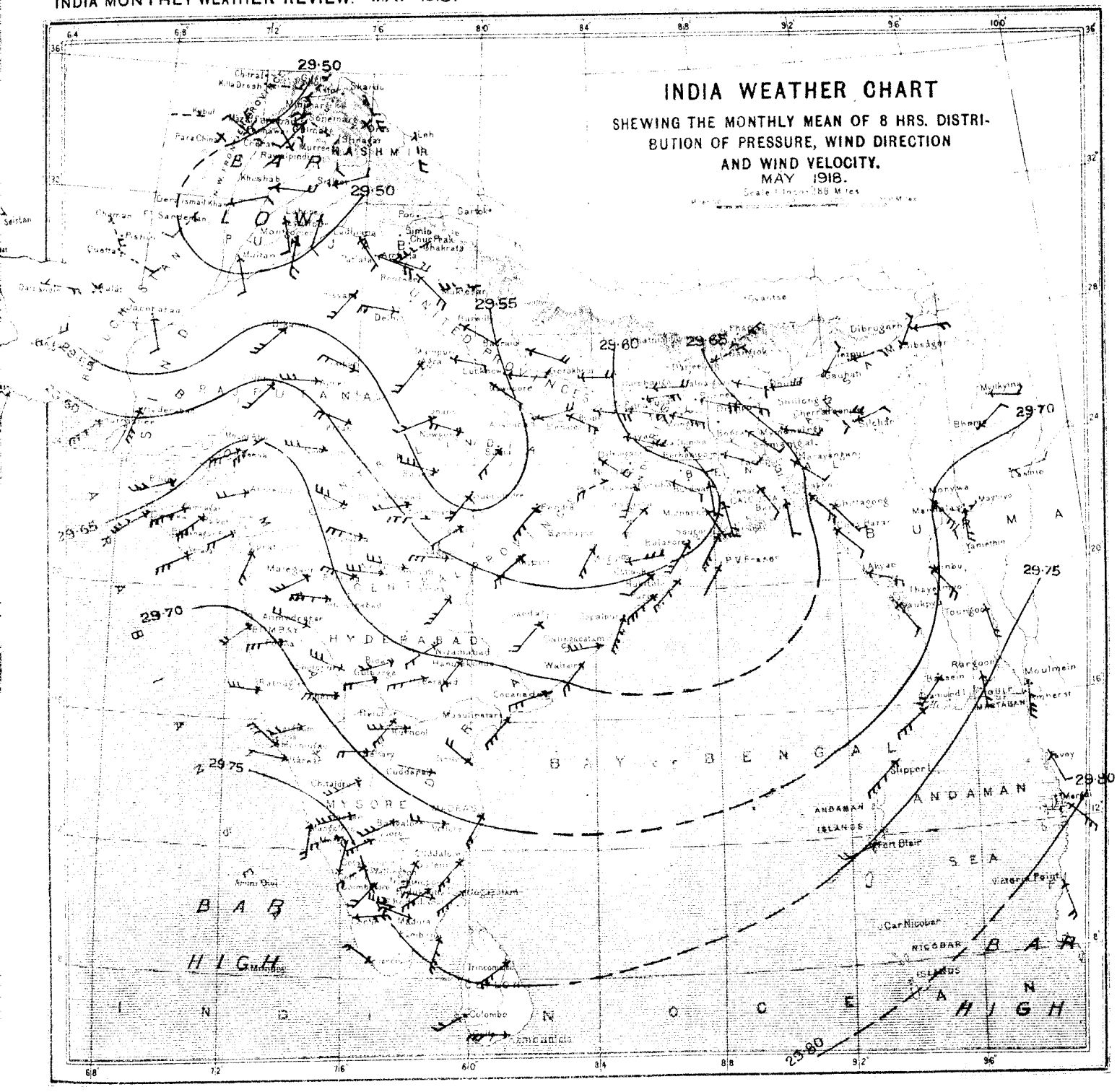
* Mean of 28 days.

C—*concluded.*

and fifth class stations in India, etc., in May, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st May 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	88	...	·322	...	3·5	...	7	...	2·75	4·24	—1·49	2·75	4·24	—1·49	1·08	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	9	−10·2	7·73	17·26	−9·53	7·73	17·26	−9·53	2·22	Pemba.
...	...	...	46	...	42	...	·508	...	...	...	0	...	0·06	...	...	0·06	...	...	0·06	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amarah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
5·6	...	...	5·3	...	59	...	·623	...	1·2	...	0	...	0	...	...	0	...	...	0	Kurna.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	0	...	...	0	Mohammerah.
...	...	...	...	...	39	...	·430	...	1·9	...	0	...	0·22	...	...	0·22	...	...	0·08	Nasiriyah.
...	...	...	...	...	61	...	·598	...	1·7	...	1	...	0·36	...	...	0·36	...	...	0·27	Shahroban.

SGPI-21-291-DGC-23-11-21.

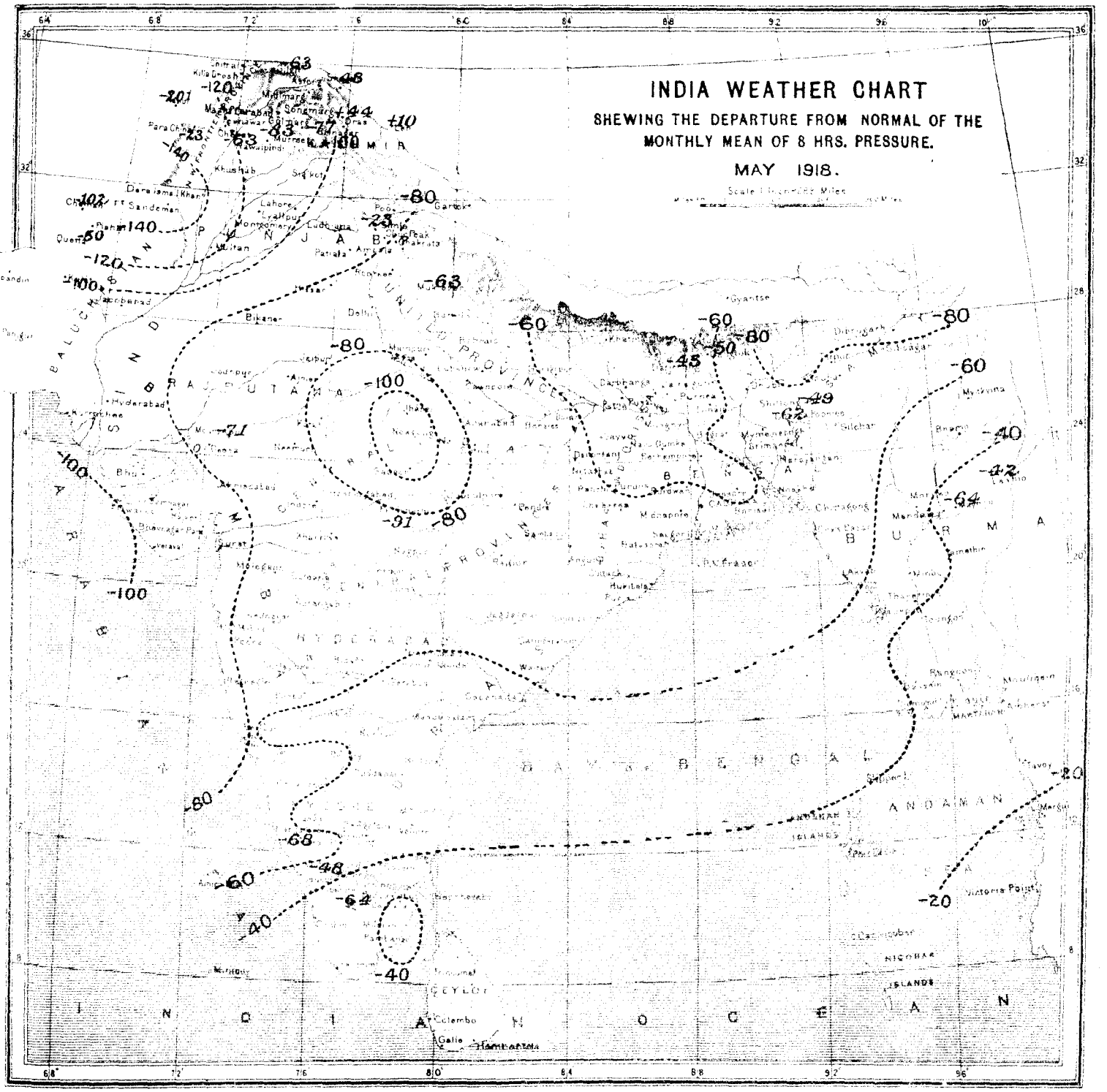


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020′ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

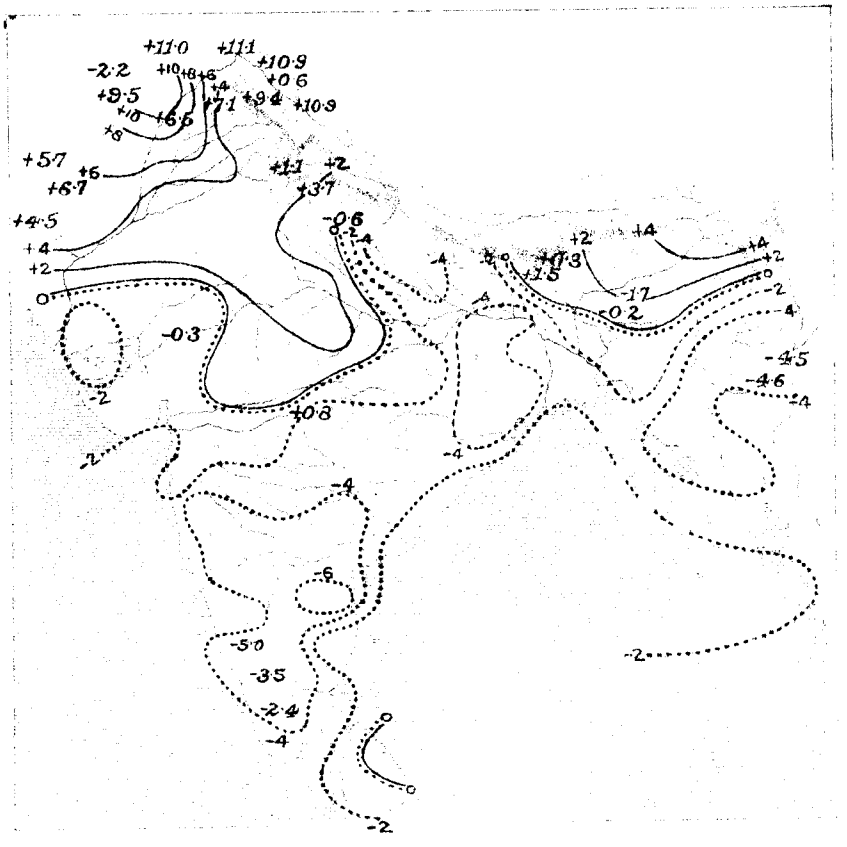


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

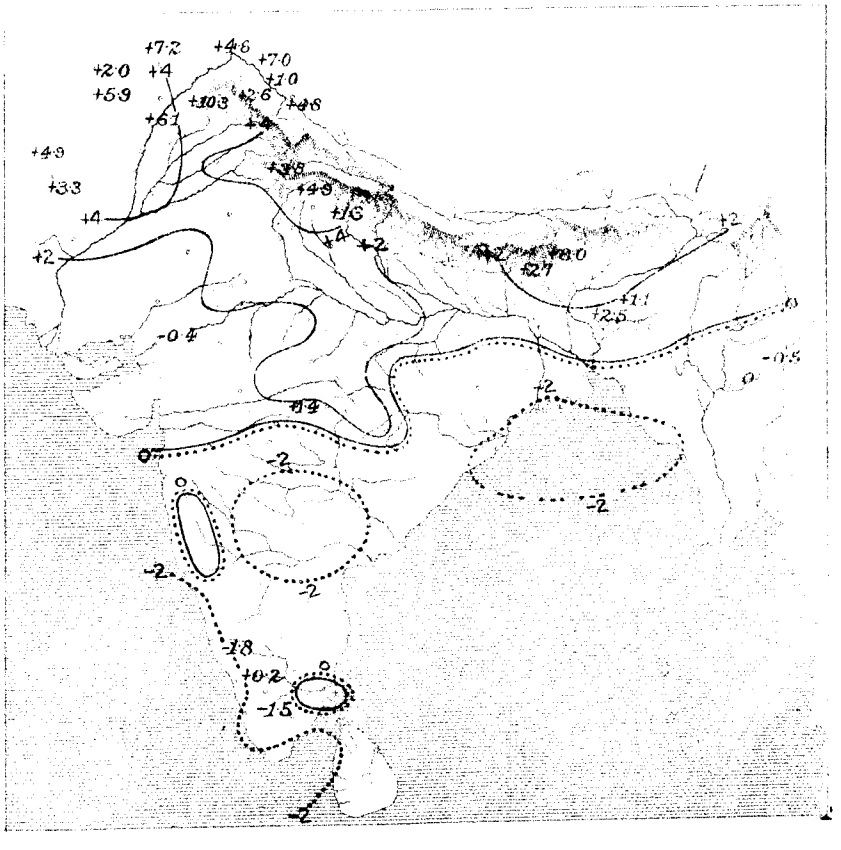


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

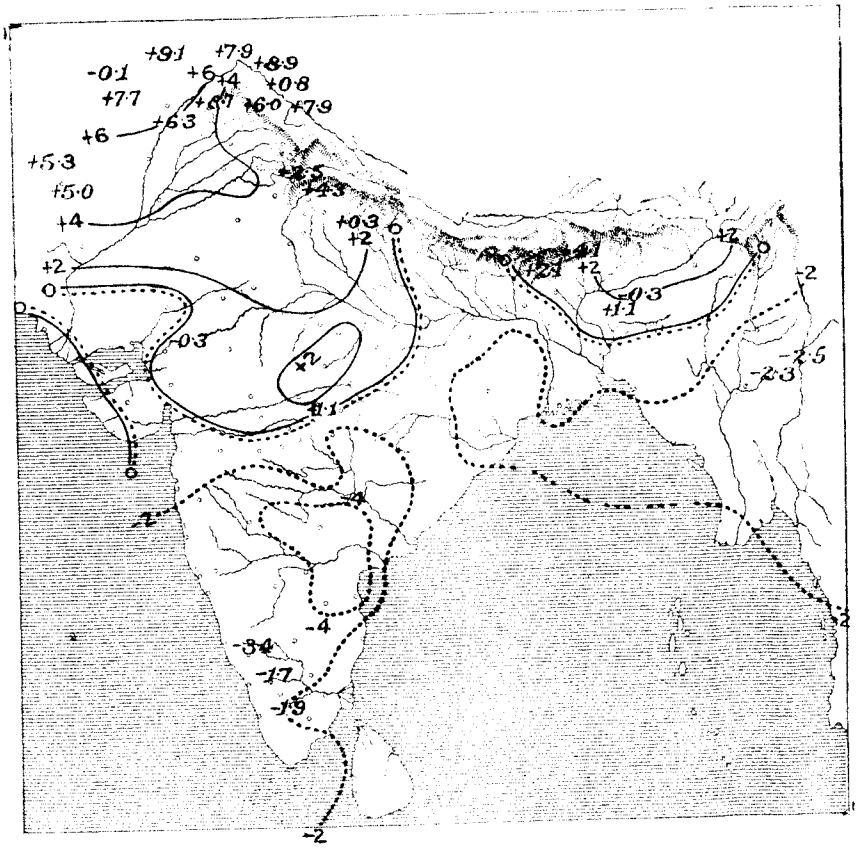


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

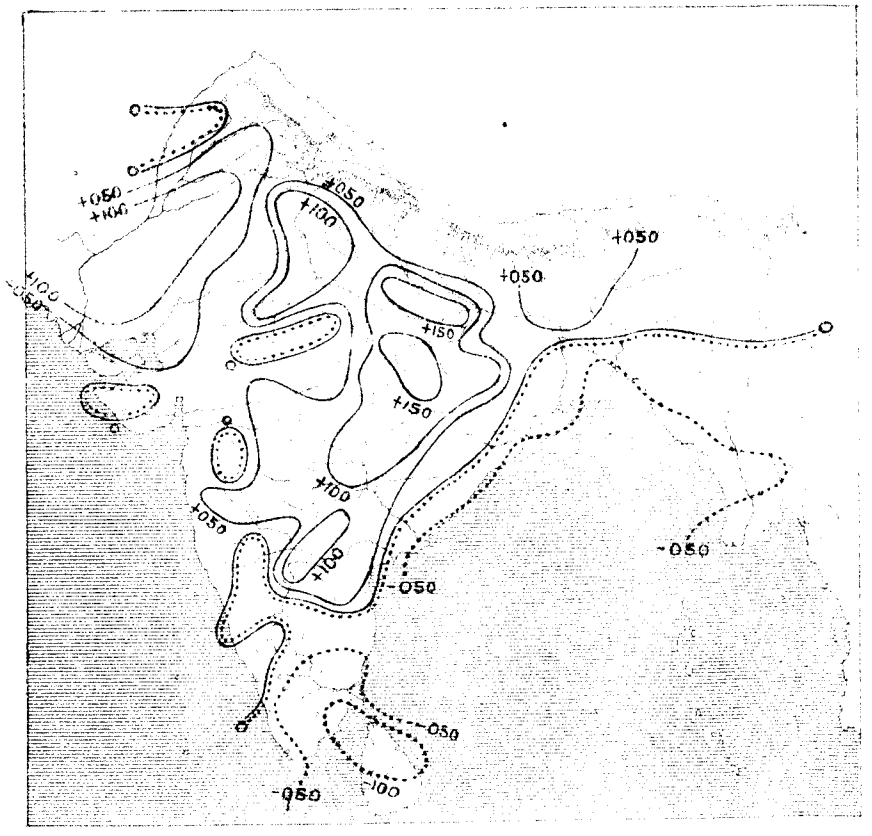


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

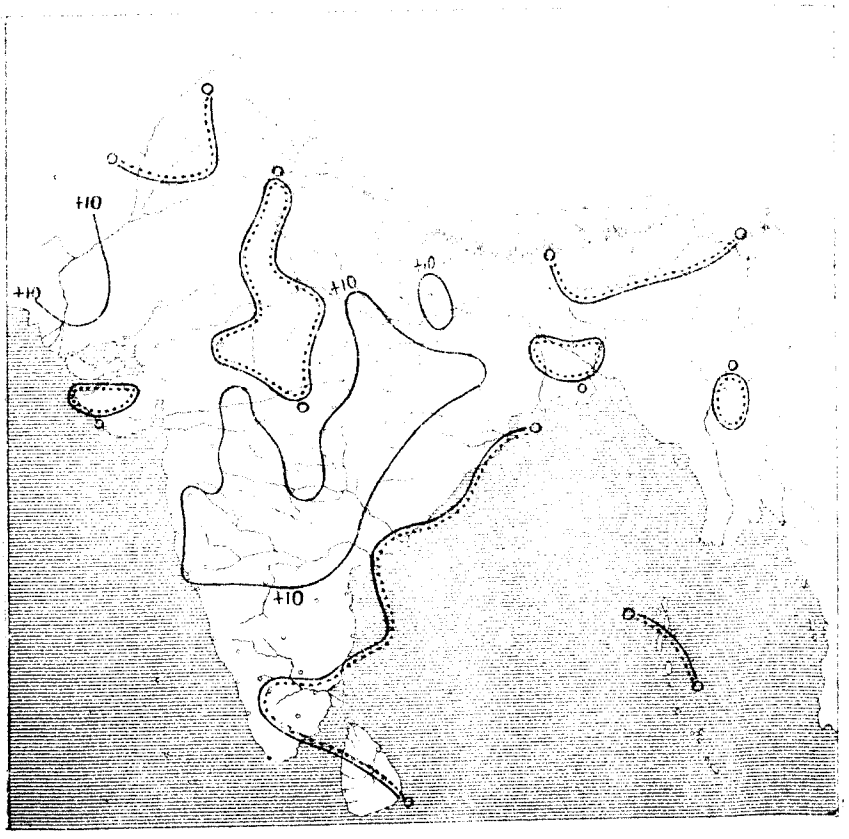
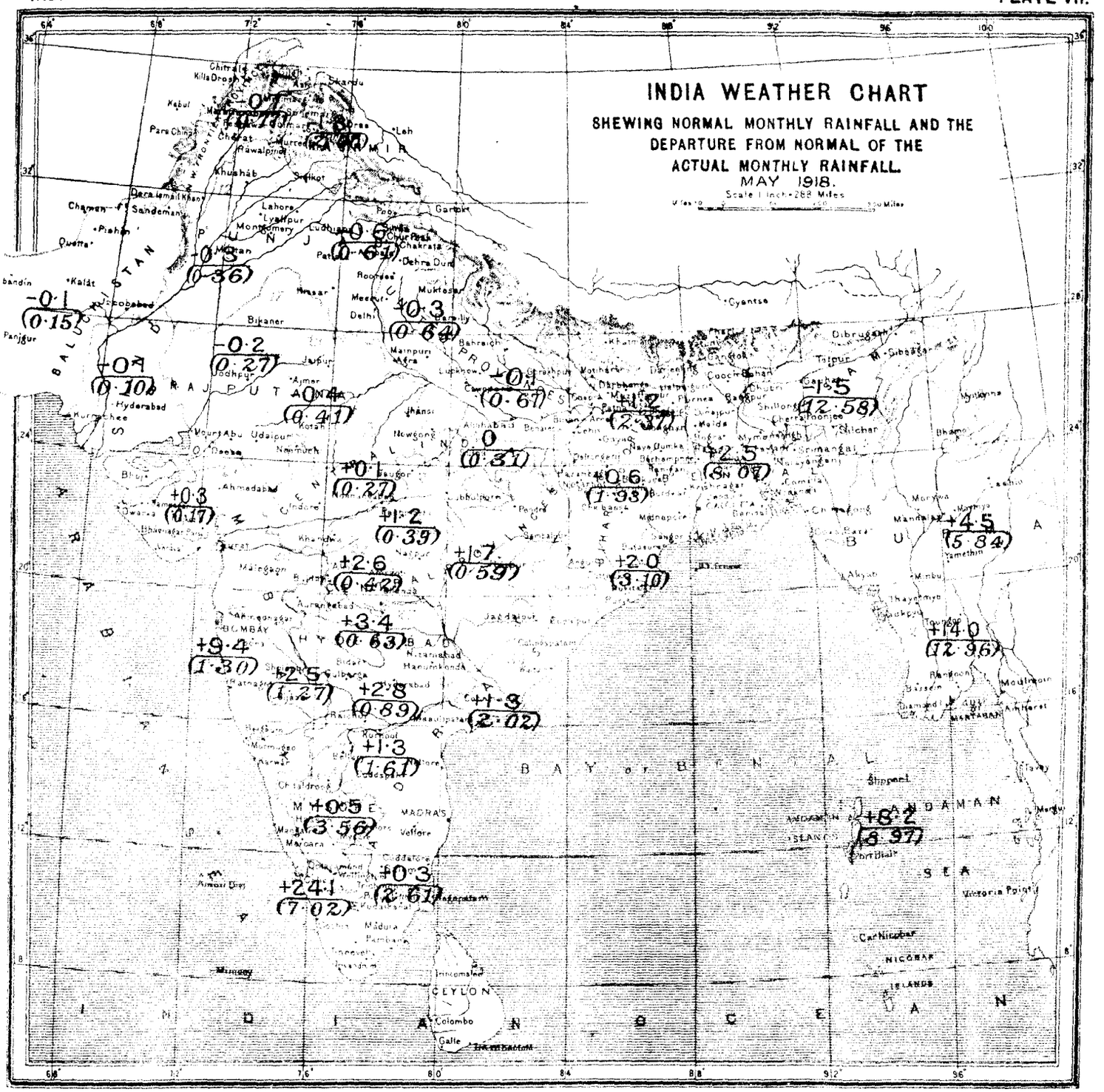


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, JUNE, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of June, 1918, is based on observations taken daily at 8 hrs. at 215 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review have been utilized.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The Bay monsoon was active during the month and caused a considerable excess of rain in north-east India. The Bombay current, on the other hand, was very weak and over the greater part of its field of activity rainfall was very much in defect, a notable exception being the Central Provinces where it was very much in excess.

Very feeble western disturbances passed on several occasions into north-west India and caused rain in the hills of the extreme north.

Cloud amount was normal or in excess over most of the country, and the air damper than usual in northern India generally. Mean temperature was somewhat low almost everywhere.

Barometric pressure averaged over the plains of India was ·009 above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculae on all the days of the month; prominences could not be recorded on two days.

Sunspots.—Twenty-five new groups of spots were observed as against thirty-one in May. The daily average number was 3·9 and the average life of a spot 4·1 days, the corresponding figures for May being 5·1 and 5·3 respectively. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	8	7	1	10°·9	2° & 30°
South . . .	3	6	—	13°·1	4° & 20°

Prominences.—Sixty large and two metallic prominences were recorded during the month. The highest was 235″ and was observed on the 12th at latitude +34° east.

Magnetic disturbances.—One "great" disturbance was recorded on the 10th and "moderate" disturbances from the 11th to 18th.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2{\cdot}343$m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulam Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·4	1	2·7
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance △ (Km.)	Remarks.
1918.		h. m. s.						
June, 1st	e P	15 22 06	...	...	...	...	...	Widening of line.
	F	15 35 24	...	...	...	...	...	
„ 3rd	P	...	...	...	...	...	...	
	e L	0 56 24	...	...	...	...	...	
	M	1 00 30	...	...	60	...	...	
	F	1 21 54	...	...	...	...	...	
„ 4th	e P	4 55 36	...	...	...	...	...	Widening of line.
	F	4 59 42	...	...	...	...	...	
„ 4th	e P	18 09 30	...	...	...	...	...	
	e L	18 16 06	...	...	...	...	...	
	M	18 23 30	...	...	40	...	...	
	F	18 39 42	...	...	...	...	...	
„ 8th	e P	20 33 06	...	...	...	...	...	Widening of line.
	M	20 41 12	...	...	...	...	...	
„ 26th	P	22 31 00?	...	...	...	...	...	Widening of line, in continuation of hour mark.
	F	22 35 06	...	...	...	...	...	

S. SITARAMAYYA,
Offg. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of June, 1918, the traces showed 14 calm days, 15 days of small, and one day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 2nd, 8th, 19th, 20th and 29th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	C	9	S	17	S	25	C
2	C	10	M	18	S	26	S
3	C	11	S	19	C	27	S
4	C	12	S	20	C	28	C
5	C	13	S	21	S	29	C
6	S	14	S	22	S	30	C
7	S	15	S	23	C		
8	C	16	S	24	C		

C = calm ; S = small; M = moderate ; G = great ; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month are as follows :—

Easterly declination . . .	0° 28′ 28″.
Horizontal force	0·36896 C. G. S. unit.
Vertical force	0·16980 C. G. S. unit.
Inclination	24° 42′·8.
Horizontal force range . . .	0·00056 C. G. S. unit.
Horizontal force summed range . .	0·00396 C. G. S. unit.
Declination range . . .	4′·9.
Declination summed range . .	21′·7.

(NOTE.—Summed range means sum without regard to sign of the twenty-four ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ *m. Subsoil* Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	20	32	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period. (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
June. 3rd	P	3 44 30	...	...	...	...	...	A slight disturbance is recorded at about 20 minutes past midnight of 3rd but the movements are small and indefinite and it is difficult to locate phases exactly. Record in other Seismograph is vitiated by air tremors.
	F	4 0 18	...	...	...	...	...	

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6{\cdot}4$ *m. Subsoil* Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period. (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
June. 3rd	P	3 44 30	...	...	...	...	...	
	F	4 0 18	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ *km. Subsoil* Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 Kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time, G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
June, 8th	E	10 14 54	...	...	...	...	...	
	M	10 24 48	...	43	...	...	...	
	F	10 48 00	...	...	...	...	...	

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
		h. m.	sec.			
Borjuli (District Darrang, Assam).	June. 1st	1 8	6	4	1	
Shillong . .	„ 2nd	10 59	2	5	1	
„ „ .	„ 3rd	3 37	3	5	1	
Salonah (District Nowgong, Assam).	„ 3rd	3 43	7	4	1	
Gauhati . .	„ 3rd	3 45	30	4	1	
Bhachan (Cutch) .	June 10th	1 30	...	...	1	
Shillong . .	„ 17th	7 8	3	5	2	
Zanzibar . .	„ 19th	6 53	3	4	1	
Shillong . .	„ 20th	23 26	1	4	1	
Drosh . . .	„ 21st	3 25	12	8	4	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was normal at Zanzibar and above it at Mauritius and Seychelles. Wind direction was about the average at all the three stations but the velocity was much above it at Seychelles. Rainfall was well in defect at Seychelles; it was in excess at Mauritius and very greatly in excess at Zanzibar—conditions unfavourable for the Arabian Sea monsoon.

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	+·035	+·003	+·029
Actual mean wind direction . .	S 76° E	S 20° W	S 35° E
Normal mean wind direction . .	S 61° E	S 13° W	S 27° E
Actual mean wind velocity (miles per diem).	194	144	249
Normal mean wind velocity (miles per diem).	187	154	188
Rainfall departure from normal in inches.	+0·37	+4·49	—4·09

Depressions and cyclonic storms.

8. Two depressions formed inland during the month—the first in Orissa on the 13th and the second in central Bengal on the 22nd. The first moved in a northwesterly direction and disappeared in the north of the Central Provinces on the 18th, and the second moved slowly northwards and disappeared in Sikkim on the 26th. Both of them gave widespread rain along their tracks, and caused very heavy falls when they reached Seoni and the northernmost parts of Bengal respectively.

No depression appears to have formed in the Bay. In the Arabian Sea there was an area of disturbed weather off the Konkan coast on the 17th and it probably travelled to the Arabian coast, as the mail steamer Colaba experienced high seas and winds of gale force on the 20th about 300 miles off Kuria Muria Islands. Similar weather was experienced about 400 miles to the south of those islands on the 25th by S. S. Warbittern and S. S. Prosper.

Pressure.

9. Pressure was below normal in the extreme north of India and above it in Burma and the Peninsula; the deviations were, however, not large. The departure from normal averaged over the plains of India was only +0·009".

The vertical gradient was steep in the United Provinces and the Central Provinces, and did not differ much from the average elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·020
Assam	—·005
Bengal	—·001
Bihar and Orissa	+·001
United Provinces	+·007
Punjab	—·019
North-West Frontier Province	—·037
Sind	—·001
Rajputana	+·005
Bombay	+·022
Central India	+·011
Central Provinces	+·011
Hyderabad	+·029
Mysore	+·025
Madras	+·022

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·010	Jacobabad	—·009	+·001
Leh	—·030	Lahore	—·027	+·003
Murree	—·055	Peshawar	—·037	+·018
Simla	—·008	Ludhiana	—·012	—·004
Mukteswar	—·034	Bareilly	+·001	+·035
Darjiling	—·022	Dhubri	—·005	+·017
Mount Abu	+·005	Deesa	+·027	+·022
Pachmarhi	—·013	Khandwa	+·023	+·036
Kodaikanal	+·007	Madura	+·022	+·015

Temperature.

10. Temperature inclined to be low over the country generally, Kashmir being the only area where it was appreciably above it. Mean temperature was 2° to 4° below normal in Bengal, Bihar and Orissa, the United Provinces, Central India East and the Central Provinces—which was roughly the area where rainfall was fairly abundant; these low mean temperatures were due mainly to low maximum temperatures, and persisted in these areas for over three weeks, temperature conditions being fairly normal during the last week of the month.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·7	76·7	80·7	7·9	—1·3	—1·1	—0·2
2. Lower Burma	85·6	74·7	80·1	10·9	+0·1	—0·5	+0·6
3. Upper Burma	88·7	75·1	81·9	13·7	—1·9	—0·8	—1·1
4. Assam	86·5	75·3	80·9	11·2	—1·9	—0·5	—1·4
5. Bengal	86·2	76·6	81·4	9·6	—3·6	—1·4	—2·2
6. Orissa	88·6	76·7	82·7	11·9	—4·4	—2·2	—2·2
7. Chota-Nagpur	89·1	74·7	81·9	14·4	—7·1	—3·5	—3·6
8. Bihar	89·6	77·3	83·5	12·4	—5·7	—1·8	—3·9
9. United Provinces, East	95·0	79·1	87·1	15·9	—5·2	—2·2	—3·0
10. Do. do., West	99·9	80·9	90·4	19·0	—2·6	—1·4	—1·2
11. Punjab, East and North	103·1	80·3	91·7	22·8	—1·4	—0·3	—1·1
12. Do., Southwest	106·7	83·6	95·1	23·1	—1·7	+0·2	—1·9
13. Kashmir	83·2	57·4	70·3	25·9	+3·0	+3·5	—0·5
14. North-West Frontier Province	108·3	80·2	94·3	28·1	+1·5	+1·0	+0·5
15. Baluchistan	96·8	67·1	81·9	29·6	—0·9	—3·5	+2·6
16. Sind	100·8	82·1	91·4	18·7	—2·2	—0·7	—1·5
17. Rajputana, West	104·0	82·1	93·1	21·9	—1·9	—1·9	0
18. Do., East	102·2	82·3	92·2	20·0	—1·4	—1·0	—0·4
19. Gujarat	95·4	79·7	87·6	15·8	—0·8	—0·8	0
20. Central India, West	95·2	75·8	85·5	19·4	—1·8	—0·9	—0·9
21. Do. do., East	97·9	80·7	89·3	17·3	—3·4	—1·9	—1·5
22. Berar	93·7	75·1	84·4	18·7	—2·7	—1·2	—1·5
23. Central Provinces, West	93·8	76·1	84·9	17·7	—4·4	—2·3	—2·1
24. Do. do., East	87·9	73·7	80·8	14·2	—8·4	—4·1	—4·3
25. Konkan	86·0	77·5	81·8	8·5	—0·6	—0·2	—0·4
26. Bombay Deccan	90·5	70·9	80·7	19·6	—0·4	—1·3	+0·9
27. Hyderabad, North	93·5	73·5	83·4	19·9	—2·4	—1·5	—0·9
28. Do., South	94·2	74·9	84·5	19·3	—1·6	—1·3	—0·3
29. Mysore	84·7	66·7	75·7	17·9	+0·5	—1·0	+1·5
30. Malabar	84·3	75·1	79·7	9·3	—0·3	+0·1	—0·4
31. Madras, South-east	96·3	77·2	86·7	19·1	+0·5	—0·4	+0·9
32. Do., Deccan	95·1	77·5	86·2	17·6	—0·5	—0·4	—0·1
33. Do. Coast, North	93·7	79·1	86·4	14·6	—1·2	—1·6	+0·4

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	−0·9	−0·7	−0·8
Assam	−1·9	−0·5	−1·2
Bengal	−3·6	−1·4	−2·5
Bihar and Orissa	−5·8	−2·4	−4·1
United Provinces	−3·9	−1·8	−2·9
Punjab	−1·5	−0·2	−0·8
North-West Frontier Province	+1·5	+1·0	+1·2
Sind	−2·2	−0·7	−1·5
Rajputana	−1·6	−1·4	−1·5
Bombay	−0·6	−0·9	−0·7
Central India	−2·6	−1·4	−2·0
Central Provinces	−5·0	−2·5	−3·7
Hyderabad	−1·9	−1·4	−1·6
Mysore	+0·5	−1·0	−0·2
Madras	−0·2	−0·6	−0·4

Winds.

11. Winds were weaker than usual in Bengal, the United Provinces, the North-West Frontier Province and Bombay, and of normal strength in Bihar and Orissa and Central India; elsewhere they were of more than the average velocity. They were of normal, or less than the normal, steadiness in Burma, Bengal, Bihar and Orissa, the United Provinces, and the North-West Frontier Province, and steadier than usual elsewhere.

Wind directions were somewhat irregular at some of the stations in the extreme north. Darjiling had an abnormal northerly component, and Bhamo, Tavoy and Mergui an abnormal easterly component. Otherwise the directions did not differ much from the normal.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+1·0	+ 3
Assam	+0·3	+ 6
Bengal	−0·7	− 7
Bihar and Orissa	−0·2	− 6
United Provinces	−0·7	0
Punjab	+0·9	+18
North-West Frontier Province	−0·7	+ 1
Sind	+0·6	+12
Rajputana	+1·1	+22
Bombay	−0·9	+ 8
Central India	−0·1	+10
Central Provinces	+0·8	+ 6
Hyderabad	+1·1	+ 9
Mysore	+1·0	+ 5
Madras	+0·7	+ 6

Humidity and cloud.

12. Humidity was in excess in Bihar and Orissa, the United Provinces, the Punjab, the North-West Frontier Province, and the Central Provinces, and was normal elsewhere.

Skies were more clouded than usual in Bengal, Bihar and Orissa, the United Provinces, Rajputana, Central India and the Central Provinces and were less clouded in the North-West Frontier Province, Mysore and Madras.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . . .	88	0	·860	—·036	8·0	+0·2
Assam . . .	90	0	·883	—·027	7·5	—0·1
Bengal . .	89	+ 3	·922	—·035	8·3	+1·2
Bihar and Orissa .	85	+ 8	·881	—·012	8·0	+2·2
United Provinces .	71	+ 7	·844	+·039	4·7	+0·7
Punjab . .	54	+ 6	·729	+·056	1·8	—0·2
North-West Frontier Province.	48	+ 8	·673	+·096	0·7	—0·9
Sind . . .	70	+ 4	·881	+·015	2·2	+0·2
Rajputana . .	53	— 1	·669	—·058	3·3	+0·5
Bombay . .	73	— 3	·795	—·046	5·7	—0·3
Central India .	65	+ 1	·721	—·023	6·1	+0·9
Central Provinces .	72	+ 7	·720	—·007	6·3	+0·8
Hyderabad . .	69	+ 1	·674	—·044	6·0	+0·1
Mysore . .	79	— 1	·606	—·048	6·5	—1·5
Madras . .	71	— 1	·780	—·032	5·6	—0·4

Rainfall.

13. The total fall of the month was 10 per cent. or more in excess in the Bay Islands, northeast India, the United Provinces West, the North-West Frontier Province and the Central Provinces proper, was within 5 per cent. of the normal in Lower Burma, the United Provinces East, Kashmir, and the north Madras coast, and was in defect in all the remaining divisions. Averaged over the plains of India, however, the month's fall was normal.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	15·5	19·1	15·49	13·90	+1·59	+ 11
2. Lower Burma	22·1	22·6	25·24	26·43	—1·19	— 5
3. Upper Burma	8·7	10·6	6·24	8·03	—1·79	— 22
4. Assam	18·4	17·7	22·00	17·74	+4·26	+ 24
5. Bengal	20·0	14·0	20·45	14·44	+6·01	+ 42
6. Orissa	14·9	10·6	13·36	9·09	+4·27	+ 47
7. Chota Nagpur	16·4	9·4	12·53	8·12	+4·41	+ 54
8. Bihar	12·9	8·6	9·57	7·97	+1·60	+ 20
9. United Provinces, East	7·8	5·5	4·93	4·71	+0·22	+ 5
10. Do. do., West	6·6	4·8	4·70	3·97	+0·73	+ 18
11 Punjab, East and North	2·6	2·9	1·31	2·13	—0·82	— 38

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
12. Punjab, South-west	0·5	1·4	0·27	0·83	—0·56	— 67
13. Kashmir	4·6	3·8	2·44	2·34	+0·10	+ 4
14. North-West Frontier Province	2·7	1·7	1·17	0·95	+0·22	+ 23
15. Baluchistan	0	0·5	0·02	0·38	—0·36	— 95
16. Sind	0	0·7	0	0·51	—0·51	—100
17. Rajputana, West	0·5	1·9	0·25	1·30	—1·05	— 81
18. Do., East	2·1	3·7	1·03	2·51	—1·48	— 59
19. Gujarat	2·1	5·3	1·39	5·27	—3·88	— 74
20. Central India, West	5·3	5·7	3·54	4·41	—0·87	— 20
21. Do., East	5·0	4·9	2·75	4·21	—1·46	— 35
22. Berar	7·0	8·0	5·27	5·89	—0·62	— 11
23. Central Provinces, West	10·8	8·5	9·41	6·74	+2·67	+ 40
24. Do., East	16·1	9·5	20·15	8·06	+12·09	+150
25. Konkan	14·0	18·3	12·84	25·60	—12·76	— 50
26. Bombay Deccan	3·7	8·0	2·11	5·31	—3·20	— 60
27. Hyderabad, North	5·5	7·9	3·24	5·55	—2·31	— 42
28. Do., South	4·3	7·0	1·63	4·26	—2·63	— 62
29. Mysore	4·8	7·1	2·39	4·82	—2·43	— 50
30. Malabar	22·6	23·2	23·27	33·26	—9·99	— 30
31. Madras, Southeast	2·6	2·8	1·38	1·56	—0·18	— 12
32. Do., Deccan	2·2	4·6	0·86	2·41	—1·55	— 64
33. Do. Coast, North	7·6	6·5	4·75	4·67	+0·08	+ 2

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	13·72	15·28	—1·56	— 10
Assam	22·00	17·74	+4·26	+ 24
Bengal	20·45	14·44	+6·01	+ 42
Bihar and Orissa	11·17	8·27	+2·90	+ 35
United Provinces	4·76	4·31	+0·45	+ 10
Punjab	1·06	1·81	—0·75	— 41
North-West Frontier Province	1·17	0·95	+0·22	+ 23

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·51	—0·51	—100
Rajputana	0·79	2·13	—1·34	— 63
Bombay	3·81	8·94	—5·13	— 60
Central India	3·24	4·33	—1·09	— 25
Central Provinces	12·96	7·10	+5·86	+ 83
Hyderabad	2·48	4·94	—2·46	— 50
Mysore	2·39	4·82	—2·43	— 50
Madras	4·31	5·42	—1·11	— 20
Mean of India	7·14	7·13	+0·01	0

Snowfall.

I.—AFGHANISTAN.

14. *Kabul.*—About 2 inches of snow fell on the 24th on the hills adjacent to the Paghman range. There was no snowfall besides this during the month.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kurram.*—No snow fell.

(*b*) *Drosh.*—Three inches fell on the 25th and 2 inches on the 26th on high ranges of surrounding mountains.

(*c*) *Khyber Agency and the adjacent region.*—No snow fell.

(*d*) *Malakand.*—Snow fell on the hills of Dir and Swat Kohistan and in upper Swat.

(*e*) *Abbottabad* (*Hazara*).—2 to 11 inches fell on the Kagan valley.

III.—KASHMIR.

(*a*) *Srinagar.*—There was a fall on the 24th on the highest mountains to the northeast.

(*b*) *Gulmarg.*—Snow fell on the 24th.

(*c*) *Sonamarg.*—On the 26th a fresh fall was observed on the nearest mountain ranges.

(*d*) *Skardu.*—Light snow which melted away when the sun appeared occurred on the tops of mountains (specially on the ranges to the west) on the 2nd, 11th, 19th, 20th, 24th, 25th and 26th. There was no snowfall on lower hills. Only light snow was visible at the end of the month on the tops of mountains.

The snowfall of the season was considered to be above the average of previous years.

(*e*) *Dras.*—No snow fell.

(*f*) *Kargil.*—No snow fell. The accumulations on the surrounding mountains at the end of the month were 3 inches on the upper sixth part of Archulla and about 1 inch on the peaks of Nakthulla, Barulla and Samenulla. No snow was visible on other mountains round the station.

(*g*) *Leh.*—Snow fell several times during the month on the mountains down to about 13,000 feet, but it melted away very soon.

IV.—PUNJAB.

(*a*) *Chamba.*—No fresh falls or old accumulations were observed blow 8,000 feet. There was a fall about the middle of the month on mountains above 12,000 feet.

(*b*) *Kilba* (*Simla Hills*):—No snow fell even on the highest mountains in that area.

V.—The UNITED PROVINCES.

(*a*) *Garhwal:*—One or two inches of snow fell on the 18th, 20th and 23rd on peaks above 18,000 feet in the north of the district.

(*b*) *Almora:*—

TABLE 17.

Name of pass or peak.	Actual fall.		Descent below perpetual snowline.	Accumulations.		
	Feet.	Inches.			′	″
Malla Danpur .	0	3	A little distance.	Nandakot pass	0	3
Malla Darma .	5	0	,,	Puwalidwar ,,	0	3
Malla Johar. .	*Nil.*		...	Binkaru ,,	5	0
Chaudas . .	1	6	½ a mile.	Lampia	5	0
Byans . .	5	4	3 or 4 miles.	Lipulekh	5	0

VI.—NORTH-EAST HIMALAYAS.

Sikkim.—No snow fell at Gangtok or Yatung.

SUMMARY.

15. Snowfall was about normal in Afghanistan, the North-West Frontier Province and Kashmir and below it over the rest of the Himalayas.

S. SITARAMAYYA.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 11 stations in India, etc., in June, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures	Departure from normal.	Mean reduced to sea level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·588	29·503	·085	29·551	+·002	29·519	87·5	77·7	9·8	95·0	74·6	20·4	83·3	84·0	82·3	−2·2	76·3	79·6	79·5	78·5
	VI.—Punjab.																					
11	Lahore .	702	28·797	28·697	·100	28·739	−·034	29·375	105·8	81·7	24·1	111·1	72·2	38·9	95·9	104·8	93·4	+0·4	72·6	78·6	80·0	77·1
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·190	28·078	·112	28·133	0	29·445	104·1	81·1	23·0	109·3	74·8	34·5	93·6	102·0	91·4	+0·8	71·3	75·4	75·3	74·0
	X.—Bombay.																					
25	Bombay . .	37	29·741	29·671	·070	29·719	+·046	29·696	87·5	79·7	7·8	89·1	76·4	12·7	83·5	84·7	82·4	0	75·1	78·3	78·6	77·3
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·868	26·784	·104	26·843	+·020	29·668	84·7	65·8	18·9	88·3	63·1	25·2	76·8	81·5	73·5	−0·5	64·5	68·1	68·4	67·0
	XV.—Madras.																					
31	Pudukkottai .	318	29·518	29·376	·142	29·447		29·687	99·8	77·9	21·9	102·9	73·4	29·5	89·7	95·9	88·9			73·2	74·1	
	Madras . .	22	29·759	29·646	·113	29·712	+·013	29·665	98·2	79·2	19·0	102·3	72·8	29·5	91·1	90·1	87·5	−0·9	73·7	77·0	79·1	76·6
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·456	25·406	·050	25·427	+·024	25·381	82·3	67·7	14·6	86·2	63·3	22·9	77·2	77·8	74·2	+0·3	65·5	70·1	71·0	68·9
	Kodaikanal . .	7,688	22·803	22·746	·057	22·775		22·710	66·1	51·7	14·4	69·8	47·3	22·5	62·8	60·1	58·9		47·8	56·6	56·8	53·7
	Extra India.																					
	Seychelles . .	15	30·011	29·937	·074	29·976	+·029†	29·914	81·4	77·3	4·1	88·3	72·9	10·4	79·8	80·6	78·2	+0·6†	69·7	73·7	74·4	72·6
	Mauritius . .	181				29·994	+·024	30·065	74·8	62·4	12·4	77·4	57·0	20·4			68·0	−1·1				64·0

N. B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

A.

at 11 stations in India, etc., in June, 1918.

VAPOUR TENSION IN INCHES OF MERCURY.					HUMIDITY.					CLOUD.				WIND DIRECTION.										WIND STEADINESS.		WIND VELOCITY.		RAINFALL.		STATION.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·887	·959	·946	·942	—·029	94	85	81	89	+ 6	9·1	9·3	9·2	+1·7	2	0	1	2	13	16	21	3	2	S 11° W	S 3° W	64	59	99	104	16·09	2·11	Calcutta.	5
																															VI.—Punjab.	
·671	·737	·690	·717	+·090	63	45	31	47	+ 3	0·4	0·9	0·7	—2·2	8	1	5	5	12	3	8	8	10	S 34° W	N 18° E	10	7	60	63	1·83	1·33	Lahore.	11
																															IX.—Rajputana.	
·643	·654	·542	·620	—·036	61	41	27	45	— 7	2·3	4·3	3·3	—1·1	3	2	1	0	1	0	12	27	17	N 83° W	N 70° W	78	43	125	119	0·03	0·03	Jaipur.	18
																															X.—Bombay.	
·808	·896	·893	·882	—·056	80	79	75	80	— 3	6·6	7·1	6·9	—0·2	0	0	0	0	2	8	17	32	1	S 65° W	S 63° W	80	64	161	266	10·82	5·34	Bombay.	25
																															XIV.—Mysore.	
·593	·588	·542	·581	—·042	93	64	51	71	— 3	6·8	7·8	7·3		0	0	0	0	0	0	14	40	6	S 84° W	S 72° W	92	81	214	163	1·03	1·01	Bangalore.	29
																															XV.—Madras.	
	·597	·543				43	33			2·4	5·4	3·9		8	3	1	0	0	2	12	16	18	N 81° W		62		116		1·42	1·01	Pudukkottai.	31
·756	·737	·845	·796	—·037	76	51	60	64	— 2	4·3	5·8	5·1	—1·1	0	0	1	8	8	7	10	20	6	S 49° W	S 37° W	37	57	122	154	1·80	0·82	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·601	·656	·680	·645	+·005	89	71	72	77	+ 1	6·0	6·7	6·3	+0·1	0	2	0	26	0	0	0	32	0	N 71° W	N 87° W	10	20	14	23	8·00	1·55	Katmandu.	
·292	·391	·425	·370		76	69	83	76		4·8	9·0	6·9		1	6	3	5	1	1	3	22	18	N 59° W		57		191		5·90	1·17	Kodaikanal.	
																															Extra India.	
·624	·751	·766	·730	—·051	67	74	73	73	— 6	4·9	5·2	5·1	—2·0†	0	0	0	0	46	14	0	0	0	S 35° E	S 27° E	95	81	249	188	0·71	0·60	Seychelles.	
			·717	0				79	+ 3			5·6	+0·8										S 76° E	S 61° E			194	187	2·67	0·38	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 215 stations in India, etc., in June 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·020	86·8	−0·9	74·8	−0·7	80·8	−0·8	11·9	+1·0	+3	88	0	·860	−·036	8·0	+0·2	13·72	15·28	−1·56
Assam	−·005	86·5	−1·9	75·3	−0·5	80·9	−1·2	11·2	+0·3	+ 6	90	0	·883	−·027	7·5	−0·1	22·00	17·74	+4·26
Bengal	−·001	86·2	−3·6	76·6	−1·4	81·4	−2·5	9·6	−0·7	− 7	89	+ 3	·922	−·035	8·3	+1·2	20·45	14·44	+6·01
Bihar and Orissa	+·001	89·2	−5·8	76·5	−2·4	82·9	−4·1	12·7	−0·2	− 6	85	+ 8	·881	−·012	8·0	+2·2	11·17	8·27	+2·90
United Provinces of Agra and Oudh	+·007	97·4	−3·9	80·0	−1·8	88·7	−2·9	17·4	−0·7	0	71	+ 7	·844	+·039	4·7	+0·7	4·76	4·31	+0·45
Punjab	−·019	104·3	−1·5	81·4	−0·2	92·9	−0·8	22·9	+0·9	+18	54	+ 6	·729	+·056	1·8	−0·2	1·06	1·81	−0·75
North-West Frontier Province	−·037	108·3	+1·5	80·2	+1·0	94·3	+1·2	28·1	−0·7	+ 1	48	+ 8	·673	+·096	0·7	−0·9	1·17	0·95	+0·22
Sind	−·001	100·8	−2·2	82·1	−0·7	91·4	−1·5	18·7	+0·6	+12	70	+ 4	·881	+·015	2·2	+0·2	0	0·51	−0·51
Rajputana	+·005	102·9	−1·6	82·2	−1·4	92·6	−1·5	20·7	+1·1	+22	53	− 1	·669	−·058	3·3	+0·5	0·79	2·13	−1·34
Bombay	+·022	92·2	−0·6	76·4	−0·9	84·3	−0·7	15·8	−0·9	+ 8	73	− 3	·795	−·046	5·7	−0·3	3·81	8·94	−5·13
Central India	+·011	96·6	−2·6	78·2	−1·4	87·4	−2·0	18·3	−0·1	+10	65	+ 1	·731	−·023	6·1	+0·9	3·24	4·33	−1·09
Central Provinces	+·011	92·0	−5·0	75·1	−2·5	83·6	−3·7	16·9	+0·8	+ 6	72	+ 7	·720	−·007	6·3	+0·8	12·96	7·10	+5·86
Hyderabad	+·023	93·9	−1·9	74·5	−1·4	84·2	−1·6	19·5	+1·1	+ 9	69	+ 1	·674	−·044	6·0	+0·1	2·48	4·94	−2·46
Mysore	+·025	84·7	+0·5	66·7	−1·0	75·7	−0·2	17·9	+1·0	+ 5	79	− 1	·606	−·048	6·5	−1·5	2·39	4·82	−2·43
Madras	+·052	93·4	−0·2	77·3	−0·6	85·4	−0·4	16·0	+0·7	+ 6	71	− 1	·780	−·032	5·6	−0·4	4·31	5·42	−1·11

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·749		29·857	29·793	23rd	29·689	7th	78·4	76·6	83·8		74·0		78·8		9·8	86·4	2nd	70·5	30th
	Mergui	66	29·823	+·022	29·818	29·882	23rd	29·759	10th & 30th.	77·7	75·7	84·2	−0·9	73·4	−0·3	79·1	−0·6	11·5	89·9	1st & 7th	70·6	29th
	Tavoy	19	29·849	+·004?	29·809	29·917	2nd	29·788	29th	77·5	75·7	84·6	0	71·7	+3·3?	78·1	−1·7?	12·9	91·2	3rd	69·6	25th
	Moulmein	94	29·763	+·038	29·796	29·827	2nd	29·685	30th	77·0	75·1	83·7	−1·0	73·8	−1·1	78·7	−1·1	9·9	87·2	4th	71·5	22nd
	Rangoon	18	29·812	+·036	29·767	29·894	2nd	29·736	30th	79·2	76·9	87·0	+0·7	75·2	−1·4	81·1	−0·3	11·8	91·4	7th	71·8	4th
	Bassein	27	29·780	+·026	29·743	29·852	2nd	29·699	9th	80·2	77·8	87·8	+1·5	76·2	−0·3	82·0	+0·6	11·6	92·2	5th	69·9	16th
	Diamond Island	41	29·759	+·021	29·734	29·827	5th	29·693	9th	81·6	77·8	85·7	+0·2	77·1	+0·3	81·4	+0·3	8·6	87·9	5th	72·6	19th
	Toungoo	164	29·644	+·033	29·750	29·715	2nd & 3rd.	29·559	30th	79·9	77·3	88·8	−0·2	74·9	−0·5	81·8	−0·3	13·9	91·7	30th	73·0	25th
	Kyaukpyu	18	29·735		29·693	29·804	17th	29·676	23rd	79·5	77·3	85·5		76·1		80·8		9·4	89·4	9th	72·9	18th
	Akyab	20	29·709	+·014	29·670	29·789	17th	29·624	24th	79·4	78·0	84·0	−1·9	74·5	−3·4?	79·2	−2·7?	9·5	88·6	9th	72·5	20th & 23rd.
3	Minbu	*165*	29·577	+·015	29·635	29·634	16th	29·516	30th	79·8	76·3	90·0	−2·3	76·8	−0·9	83·4	−1·6	13·2	95·5	7th & 8th	72·8	23rd
	Yamethin	644	29·125	+·025	29·717	29·176	3rd & 4th & 5th.	29·047	30th	79·1	75·0	90·1	−1·0	74·9	−0·4	82·5	−0·7	15·2	91·8	30th	72·8	15th
	Mandalay	250	29·498	+·023	29·691	29·519	16 h	29·428	30th	83·7	76·5	93·7	−1·0	78·2	−0·5	86·0	−0·7	15·5	99·9	30th	75·1	15th
	Monywa	*280*	29·455	+·010	29·662	29·519	16th	29·396	30th	81·3	76·3	91·8	−1·5	78·1	−0·4	85·0	−0·9	13·7	97·6	7th	75·9	11th
	Lashio	*2,820*	26·979	−·002	26·925	27·034	16th	26·904	30th	72·7	69·5	81·7	−2·8	69·3	−0·3	75·5	−1·5	12·4	85·3	8th	65·6	14th
	Bhamo	*361*	29·345	+·016	29·659	29·422	16th	29·288	23rd	76·2	75·2	87·8*	−2·8*	71·1	−3·7	80·4*	−3·3	16·7	90·2	25th	67·4	14th
	Myitkyina	458	29·235	+·015	29·658	29·318	15th	29·184	2 nd	76·2	74·5	85·2	−2·5	73·1	−2·2	79·2	−2·3	12·1	91·4	23rd	70·2	14th
	II.—Assam.																					
4	Dibrugarh	353	29·309	−·016	29·625	29·411	15th	29·228	5th	76·2	74·5	84·4	−2·7	72·7	−1·2	78·6	−1·9	11·7	92·5	11th	65·5	7th
	Sibsagar	333	29·338	−·008	29·630	29·432	15th	29·248	5th	78·0	76·0	86·4	−2·4	75·3	−1·0	80·8	−1·7	11·1	92·2	11th	72·2	1st, 7th & 13th
	Tezpur	252	29·415	+·005	29·625	29·483	28th	29·332	23rd	78·1	75·9	87·1	−1·4	75·8	−0·8	81·4	−1·1	11·3	93·2	12th	71·8	7th
	Gauhati	196	29·461	−·009	29·612	29·544	16th	29·363	23rd	80·2	77·2	88·1	−1·1	76·3	+0·1	82·2	−0·5	11·8	92·1	6th	73·3	7th & 13th.
	Dhubri	115	29·523	−·005	29·592	29·615	16th	29·404	23rd	79·2	77·3	83·8	−2·1	76·4	+0·3	80·1	−0·9	7·4	89·4	8th	74·1	9th
	Silchar	104	29·587	+·004	29·644	29·661	16th	29·484	23rd	78·3	77·2	87·2	−2·0	75·9	−0·2	81·5	−1·1	11·3	90·9	28th	71·3	7th
	Srimangal	66	29·619		29·634	29·690	16th	29·490	23rd	79·6	76·9	88·3	−1·8	74·8	−0·6	81·5	−1·2	13·5	93·7	29th	70·2	6th
	III.—Bengal.																					
5	Cox's Bazar	36	29·665		29·643	29·761	17th	29·567	24th	79·2	77·1	83·1		74·5		78·9		8·6	86·5	17th & 29th.	71·2	8th
	Chittagong	87	29·606	+·017	29·640	29·675	16th	29·510	24th	79·0	77·2	85·0	−1·8	75·2	−1·7	80·1	−1·7	9·8	88·4	29th	72·3	8th
	Noakhali	43	29·629	+·011	29·619	29·712	17th	29·516	23rd	79·7	77·8	84·2	−3·0	76·3	−0·9	80·3	−1·9	7·9	88·0	8th	74·2	26th
	Barisal	12	29·631	+·005	29·590	29·703	17th	29·527	23rd	80·4	78·3	84·9	−3·9	76·7	−1·5	80·8	−2·7	8·2	89·8	6th	74·4	7th
	Narayanganj	26	29·620	+·004	29·593	29·698	5th & 16th.	29·490	23rd	80·2	77·7	84·9	−4·2	76·4	−1·8	80·8	−3·0	8·5	91·7	6th	72·6	6th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 3 days.

B.

stations in India, etc., in June, 1918.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
7	0	2	4	5	2	4	4	2	S 8° E		5·7			17		92		·896		8·1		25		29·41	31·61	−2·20	51·73	47 97	+3·77	2·62	Victoria Point.
8	0	1	8	10	2	0	1	0	S 61° E	S 79° W	8·1	1·3	+6·8	56	− 1	92	0	·864	−·034	5·8	−0·4	22	−2·3	26·67	29·47	− 2·80	50·46	46·96	+ 3·50	3·15	Mergui.
23	0	1	0	1	5	0	0	0	S 15° E	S 55° W	1·5	1·5	0	17	+ 2	92	0	·862	−·025	8·1	+0 8	24	−1·6	41·51	42·02	− 0·51	79·15	65 80	+13·35	5·45	Tavoy.
5	0	1	3	3	9	6	1	1	S	S 14° E	8·9*	2·7	+6·2	48	− 4	92	0	·850	−·032	9·5	+1·3	27	+1·2	41·78	35·80	+ 5·98	71·80	56·49	+15·31	5·45	Moulmein.
1	1	1	0	6	12	7	2	0	S 6° W	S 37° W	4·2	3·7	+0·5	62	− 5	90	− 2	·835	−·033	9·4	+0·7	19	−3·8	11·11	17·95	− 6·84	26·55	30·16	− 3 61	1·72	Rangoon.
4	0	0	0	5	10	8	3	0	S 15° W	S 13° W	3·9	3·4	+0·5	66	+ 7	89	− 3	·922	−·021	6·6	+0·7	18	−5·8	12·16	22·96	−10·80	31·56	32·93	− 1·37	2·06	Bassein.
0	0	0	1	1	4	15	8	1	S 50° W	S 3° W	9·1	7·0	+2·1	76	+ 6	84	0	·905	−·016	6·5	−1·6	22	+1·0	21·65	24·20	− 2·54	42·92	34·98	+ 7·94	3·21	Diamond Island.
3	0	0	0	13	13	1	0	0	S 20° E	S 32° E	3·5	3·7	−0·2	82	− 3	89	0	·897	−·030	9·8	+0·9	21	+0·3	13·16	11·20	− 1·04	31·33	21·64	+ 9·69	1·53	Toungoo.
16	0	0	2	5	6	1	0	0	S 26° E		2 0			37		90		909		8·9		23		35·83	38·97	− 3·13	88·15	54·00	+34·15	4·83	Kyaukpyu.
1	0	1	8	8	9	2	0	1	S 40° E	S 48° E	3·3	2·8	+0·5	62	+10	93	0	·935	−·036	8·7	0	28	+4·1	58·93	45·87	+13·06	121·01	59·08	+61·93	6·73	Akyab.
0	0	0	1	26	1	0	0	0	S 45° E	S 48° E	−3·9	8·5	−4·6	96	+25	85	+ 2	·859	−·028	6·7	+0·1	14	+4·2	9·40	5·73	+ 3·67	22·08	11·09	+10·99	2·50	Minbu.
																82	− 1	·812	−·039	6·5	−0·3	11	+2·2	4·49	5·35	− 0·86	6 67	11·28	− 4·61	0·74	Yamethin.
4	0	0	0	12	13	1	0	0	S 19° E	S 1° W	6·6	6·4	+0·2	79	+ 7	71	− 5	812	−·057	6·6	+1·0	6	−1·0	4·39	5·76	− 1·37	11·57	11·61	− 0·04	1·72	Mandalay.
2	0	0	0	24	4	0	0	0	S 38° E		3·9			86		79	− 2	·837	−·052	8·5	+0·2	2	−3·9	1·41	5·71	− 4·30	9·05	11·14	− 2·09	1·10	Monywa.
1	1	2	2	4	5	13	0	2	S 13° W		2·4			46		85	− 2	679	−·051	8·2	−0·1	17	+1·0	7·48	10·37	− 2·89	29·00	17·06	+11·94	1·22	Lashio.
29	0	1	0	0	0	0	0	0	N 15° E	N 81° W	0·8	1·8	−1·0	3	− 7	94	+ 4	·849	−·043	9·3	+1·5	20	+0·9	21·23	14·18	+ 7·05	32·59	20·47	+12·12	3·20	Bhamo.
28	0	0	0	0	1	1	0	0	S 24° W		1·5			7		92	+ 2	·830	−·036	8·5	−0·5	21	+1·4	19·89	14·77	+ 5·12	25·42	21·24	+ 4·18	3·82	Myitkyina.
																															II.—Assam.
23	1	1	4	1	0	0	0	0	N 80° E		0·9			17		93	+ 1	·835	−·039	7·8	0	24	+3·9	29·63	17 95	+11·68	38·94	28·84	+10·10	3·75	Dibrugarh.
13	3	4	1	1	4	4	0	0	S 45° E	N 70° E	2·0	2·0	0	10	−15	91	− 1	·874	−·057	8·9	+0·2	20	+3·0	13·44	13·86	− 0·42	21·03	25·97	− 4·94	1·73	Sibsagar.
10	1	8	8	0	0	2	1	0	N 65° E		2·3			49		90	− 1	·867	−·037	6·5	−1·0	16	−0·1	17·59	11·29	+ 6·30	29·54	20·47	+ 9·07	3·14	Tezpur.
22	0	2	2	1	1	2	0	0	S 57° E		1·1			10		87	− 2	·891	−·019	8·2	+0·1	18	+1·4	14·96	14·51	+ 0·45	20·75	24·57	− 3·82	3·85	Gauhati.
5	0	7	13	0	2	3	0	0	N 87° E	N 77° E	5·4	4·2	+1·2	53	+ 9	91	0	·911	+·005	6·3	−1·6	22	+3·8	25·10	23·43	+ 1·67	36·60	38·71	− 2·11	4·50	Dhubri.
20	0	3	5	2	0	0	0	0	N 85° E	N 85° E	1·7	2·0	−0·3	30	+25	93	+ 4	912	−·011	9·6	+1·7	24	+2 9	26·62	22·06	+ 4·56	40·20	38·28	+1·92	2·82	Silchar.
																88	0	·891	−·030	5·2		23	+3·0	17·57	18·89	− 1·32	31·19	35·78	−4·59	2·94	Srimangal.
																															III.—Bengal.
6	0	0	3	13	6	2	0	0	S 32° E		4·3			66		91		·907		8·3		25		65·14	26·02	+39·12	103·20	39·26	+63·94	11·43	Cox's Bazar.
8	0	0	1	12	6	2	1	0	S 24° E	S 44° E	2·7	5·1	−2·4	59	−15	92	+ 6	·905	−·010	8·3	+1·0	19	+3·0	39·45	20·79	+ 9·66	45·58	30 72	+14·86	9·32	Chittagong.
1	0	0	0	24	4	1	0	0	S 36° E		5·9			90		92	+ 4	·925	−·030	6·8	+1·1	24	+5·6	23·58	21 50	+ 2·08	44·27	33·47	+10·80	2·92	Noakhali.
5	0	0	1	3	17	4	0	0	S 1° E	S 17° E	2·6	3·2	−0·6	73	+32	90	+ 3	·925	−·065	9·1	+1·7	24	+7·4	23·54	16·32	+ 7·22	35·79	25·71	+10·08	3·65	Barisal.
2	0	0	5	12	7	4	0	0	S 30° E	S 32° E	2·4	5·5	−3·1	69	− 1	89	0	·923	−·059	8·5	+0·1	24	+9·8	17·28	13·10	+ 4·18	29·81	22·71	+ 7·10	2·16	Narayangand.

* Mean of 20 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·585	—·005	29·600	29·676	16th	29·442	23rd	79·6	77·4	85·8	—1·6	76·9	0	81·3	—0·8	8·9	91·1	6th	72·1	6th
	Bogra	75	29·546	—·012	29·573	29·629	16th	29·414	24th	80·0	78·1	86·9	—2·6	76·5	—0·7	81·7	—1·7	10·4	93·2	6th	73·9	6th & 7th
	Dinajpur	123	29·487	—·012	29·565	29·581	16th	29·336	25th	79·6	77·6	86·0	—3·5	76·8	—0·3	81·4	—1·9	9·2	94·8	6th	74·5	1st
	Jalpaiguri	283	29·361	—·002	29·602	29·453	16th	29·256	25th	78·5	77·2	85·8	—2·5	75·1	—0·6	80·4	—1·5	10·7	92·8	6th	72·6	1st
	Saugor Island	10	29·602	+·009	29·557	29·683	4th	29·516	14th	83·1	80·6	87·2	—3·3	78·6	—3·0	82·9	—3·1	8·6	92·1	8th	73·3	1st
	Midnapore	149	29·435	—·017	29·532	29·518	4th	29·347	14th	81·9	77·3	90·1	—4·0	77·0	—2·0	83·5	—3·0	13·1	98·4	6th & 7th	72·5	28th
	Calcutta	21	29·580	—·005	29·548	29·647	4th	29·491	14th	80·9	78·5	87·4	—4·1	77·4	—1·4	82·4	—2·7	10·0	95·0	6th	73·6	1st
	Jessore	30	29·594	+·008	29·571	29·651	17th	29·427	23rd	80·9	77·5	86·3	—5·0	77·2	—1·5	81·7	—3·3	9·1	93·5	6th	74·4	7th
	Burdwan	99	29·486	—·014	29·533	29·539	29th	29·401	23rd	80·7	77·7	87·6	—6·1	76·6	—2·6	82·1	—4·3	11·0	94·4	6th	74·0	3rd
	Berhampore	67	29·535	—·004	29·551	29·605	29th	29·431	23rd	80·8	78·1	87·8	—4·6	77·4	—1·0	82·6	—2·8	10·4	95·0	6th	73·6	7th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·547	—·002	29·542	29·621	4th	29·443	14th	81·3	77·6	89·6	—3·5	76·9	—2·1	83·3	—2·8	12·7	102·6	7th	74·0	10th
	Hukitala (False Point)	29	29·597	+·007	29·567	29·681	5th	29·492	15th													
	Cuttack	80	29·551	+·023?	29·575	29·657	4th	29·467	14th	81·0	77·6	90·3	—5·5	77·3	—2·8	83·8	—4·1	13·0	100·5	8th	72·2	3rd
	Puri	24	29·611	+·013	29·576	29·719	4th	29·500	15th	82·0	79·1	86·7	—2·5	79·4	—1·5	83·0	—2·0	7·3	93·4	9th	74·9	10th
	Angul	455	29·153	+·003	29·553	29·243	5th	29·040	15th	80·3	76·7	89·0	—6·2	76·0	—2·5	82·5	—4·3	13·0	98·2	7th	72·0	1st
	Sambalpur	486	29·125	—·001	29·560	29·223	4th	29·000	16th	78·7	75·6	87·5	—10·4	73·9	—7·1?	80·7	—8·7?	13·6	98·4	1st	69·7	19th
7	Chaibasa	*733*	28·849	—·005	29·521	28·930	th	28·745	15th	79·1	75·6	89·7	—4·6	75·7	—1·8	82·7	—3·2	14·0	100·3	1st	72·9	27th & 28th
	Ranchi	2,123	27·483	—·011	29·517	27·560	4th	27·419	15th	74·8	72·3	83·2	—9·1	71·8	—3·7	77·5	—6·1	11·4	96·8	1st	69·1	18th
	Purulia	*816*	28·778	+·012	29·541	28·856	4th	28·684	24th	79·3	75·8	90·6	—6·8	75·1	—3·7	82·8	—5·3	15·5	102·5	1st	73·2	24th
	Daltonganj	*730*	28·845	+·001	29·522	28·922	8th	28·776	18th	80·4	76·5	92·9	—7·9	76·3	—4·8	84·6	—6·3	16·6	106·5	1st	67·8	25th
8	Purnea	124	29·474	—·016	29·553	29·545	28th	29·383	23rd	80·3	77·9	87·2	—4·7	77·2	—0·2	82·2	—2·5	10·2	94·6	6th	74·0	26th
	Monghyr	155	29·410		29·517	29·474	8th	29·339	21st & 22nd	81·0	77·7	89·5		77·1		83·3		12·4	98·0	2nd	73·9	24th
	Darbhanga	165	29·427	—·007	29·547	29·506	8th	29·353	23rd	80·9	77·4	87·9	—4·5	77·1	—1·9	82·5	—3·2	10·8	93·5	6th	74·7	1st & 26th
	Pusa	188	29·401		29·543	29·469	8th	29·319	21st	81·4	78·7	89·8		75·9		82·8		13·9	97·0	6th	72·1	1st
	Patna	183	29·435	+·008	29·542	29·493	8th	29·317	23rd	82·2	78·2	89·5	—6·8	77·7	—2·3	83·6	—4·5	11·8	96·9	6th	72·2	8th
	Buxar	239	29·329	+·002	29·523	29·412	8th	29·265	23rd	81·2	77·6	92·8	—5·4	78·3	—2·4	85·6	—3·9	14·5	107·1	1st	72·6	9th
	Gaya	372	29·211	+·013	29·535	29·218	8th	29·156	18th & 23rd	82·2	77·2	91·8	—8·0	78·0	—2·7	84·9	—5·3	13·8	101·9	1st	73·1	8th
	Naya Dumka	489	29·106	+·005	29·545	29·178	28th	29·029	24th	81·1	77·5	88·6	—5·1	76·9	—1·4	82·8	—3·3	11·7	99·4	6th	74·0	18th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·326	+·005	29·540	29·381	15th	29·241	23rd	81·6	77·8	91·7	—5·3	77·9	—1·5	84·8	—3·4	13·8	94·7	30th	73·0	4th
	Benares	267	29·303	+·010	29·521	29·363	8th	29·236	23rd	84·5	78·8	94·4	—6·4	79·2	—2·8	86·9	—4·6	15·2	108·0	1st	75·4	6th
	Allahabad	309	29·276	+·028	29·537	29·332	15th	29·206	24th	85·1	78·3	96·0	—6·6	79·5	—3·4	87·8	—5·0	16·5	110·7	1st	71·6	11th
	Cawnpore	416	29·159	+·020	29·525	29·238	11th	29·061	24th	85·5	78·5	98·9	—2·8	80·9	—1·5	89·9	—2·1	18·0	108·8	1st	76·1	5th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in June, 1918—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometer, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour pressure at 8 hrs. in	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															III.—Benga.—*concld.*
15	0	0	4	7	3	1	0	0	S 44° E	S 61° E	2·4	2·9	−0·5	40	−27	90	+ 1	·932	−·025	9·5	+1·6	24	+ 5·7	28·94	18·93	+ 9·95	37·07	32·40	+ 4·67	4·00	Mymensingh.
13	0	0	12	0	3	2	0	0	S 67° E	S 66° E	1·2	2·9	−1·7	40	−27	92	+ 5	·930	0	9·0	+2·4	22	+ 7·7	23·21	14·01	+ 9·17	37·79	22·84	+14·95	2·82	Bogra.
1	0	2	15	7	3	2	0	0	S 68° E	S 78° E	3·9	3·2	+0·7	69	− 5	91	+ 2	·930	−·004	8·1	+0·2	21	+ 7·3	18·42	14·07	+ 4·35	27·79	21·94	+ 5·85	3·10	Dinajpur.
22	1	3	2	2	0	0	0	0	N 72° E	S 86° E	1·9			17	−41	94	+ 5	·925	+·013	6·7	+1·0	24	+ 6·1	37·65	23·07	+14·58	55·29	24·38	+18·91	5·95	Jalpaiguri.
6	0	0	2	1	12	13	2	0	S 21° W	S 11° W	10·9	7·5	+3·4	79	+20	90	+ 7	1·015	− ·012	8·2	+0·1	16	+ 4·1	15·77	11·10	+ 4·67	26·04	15·62	+ 4·42	3·02	Saugor Island.
22	0	0	0	4	2	2	0	0	S 9° E		2·9			20		81	− 1	·878	−·072	8·0	+3·6	20	+ 7·3	19·25	9·89	+ 9·36	22·73	15·18	+ 7·55	3·30	Midnapore.
2	0	0	1	8	3	10	1	0	S 4° W	S 4° E	4·2	4·3	−0·1	69	+21	90	+ 5	·941	−·040	8·8	+1·6	21	+ 8·2	16·09	11·81	+ 4·28	24·26	17·69	+ 6·68	2·11	Calcutta.
26	0	0	0	3	1	0	0	0	S 34° E	S 27° E	2·0	3·3	−1·3	13	−39	85	− 3	·906	−·103	7·9	+0·3	17	+ 2·8	14·53	12·77	+ 1·76	26·29	21·17	+ 5·12	3·33	Jessore.
12	0	1	2	3	5	5	2	0	S 4° W	S 4° E	1·4	3·6	−2·2	33	−11	87	+ 4	·911	−·039	8·7	+1·2	23	+ 10·6	21·13	9·82	+11·31	25·62	16·19	+ 9·43	2·77	Burdwan.
3	0	1	7	7	8	4	0	0	S 33° E	S 36° E	3·4	3·4	0	59	+ 7	88	+ 1	·925	−·042	8·2	+0·3	20	+ 8·2	17·43	9·83	+ 7·60	26·40	15·38	+11·02	5·04	Berhampore.
																															IV.—Bihar and Orissa.
3	1	2	0	0	13	11	0	0	S 19° W	S 32° W	3·7	5·3	−1·6	62	+ 3	85	+ 4	·882	−·069	7·7	+2·4	15	+ 3·9	10·15	9·65	+ 0·50	16·29	14·50	+ 1·79	1·80	Balasore.
1	0	0	0	1	4	11	6	1	S 48° W		11·9			76	+ 9					8·2	+0·4	18	+ 8·3	9·02	8·49	+ 0·53	12·51	12·91	− 0·40	2·18	Hukitala (False Point).
11	0	0	0	0	1	11	6	1	S 61° W	S 47° W	2·7	2·9	−0·2	53	− 6	85	+ 7	·893	−·023	7·8	+0·9	18	+ 6·7	12·50	9·80	+ 2·70	16·34	13·88	+ 2·46	3·06	Cuttack.
1	2	0	1	1	7	12	5	1	S 45° W		13·2			60		87	+ 2	·952	−·050	7·0	+0·8	12	+ 4·4	6·37	7·20	− 0·83	14·34	9·96	+ 4·38	1·62	Puri.
11	1	1	1	2	2	1	5	6	N 74° W		5·3			29		84	+ 6	·873	−·005	8·5	+2·8	14	+ 0·4	12·74	7·79	+ 4·95	16·63	9·86	+ 6·77	2·40	Angul.
1	0	3	2	0	5	1	3	1	S 39° W	S 23° W	3·7	3·8	−0·1	53	− 5	87	+18	·846	+·007	9·1	+2·7	20	+ 9·3	32·35	9·93	+22·42	33·19	11·25	+21·94	7·72	Sambalpur.
11	0	1	0	1	0	12	4	1	S 57° W	S 52° W	2·6	2·1	+0·5	46	+ 5	85	+31	·841	−·005	8·6	+3·1	15	+ 3·8	10·23	8·27	+ 1·96	12·64	11·53	+ 1·31	1·93	Chaibasa.
4	2	2	2	3	3	0	5	3	S 56° W	S 42° W	4·1	6·4	−2·3	27	−17	88	+16	·761	+·021	8·8	+3·0	24	+12·4	17·76	9·34	+ 8·42	20·75	11·67	+ 9·08	2·58	Ranchi.
7	0	2	3	6	1	1	7	3	S 27° W		2·4			7		85	+ 6	·849	−·030	8·8	+3·8	18	+7·9	16·17	7·47	+8·70	18·23	10·43	+ 7·80	2·79	Purulia.
4	2	2	2	0	1	4	1	1	*N 75° W		4·2	(a)		6		83	+17	·859	+·055	5·4	+1·3	15	+ 6·2	14·16	6·22	+ 7·94	14·48	6·79	+ 7·69	2·37	Daltonganj.
1	1	3	17	3	1	1	2	1	E	N 84° E	3·0	2·9	+0·1	59	− 7	90	+ 3	·921	−·011	7·4	+0·9	18	+ 6·2	13·55	11·09	+ 2·46	21·21	15·54	+ 5·67	2·72	Purnea.
1	0	4	10	8	0	3	3	1	S 73° E		6·4			47		86		·905		7·8		15		11·78	10·38	+ 1·40	15·83	12·23	+ 3·65	2·64	Monghyr.
14	0	1	14	1	0	0	0	0	E	S 75° E	5·1	4·4	+0·7	51	−26	85	+ 2	·892	−·035	8·9	+3·3	11	+ 2·0	6·69	8·37	− 1·68	8·56	11·30	− 2·74	1·41	Darbhanga.
0	0	4	16	8	0	2	0	0	S 80° E		3·9			77		88		·911		8·6		14		11·50	9·83	+ 1·67	15·19	11·75	+ 3·44	3·17	Pusa.
3	0	1	17	3	1	3	1	1	S 77° E	S 87° E	5·4	4·1	+1·3	58	−10	83	+ 6	·913	−·005	8·7	+3·3	12	+ 4·3	14·21	8·03	+ 6·18	16·31	9·68	+ 6·63	3·09	Patna.
1	0	3	14	6	1	1	3	1	S 79° E		4·9			53		84	+13	·895	+·040	7·9	+3·0	11	+ 3·6	5·14	5·19	− 0·05	5·99	5·87	+ 0·12	2·32	Buxar.
8	2	6	4	3	0	6	1	0	S 89° E	S 66° E	3·0	3·6	−0·6	17	− 6	79	+ 6	·855	−·059	6·8	+1·7	16	+ 8·1	9·75	7·12	+ 2·63	11·98	8·19	+ 3·79	2·26	Gaya.
21	0	0	3	2	1	2	0	1	S 37° E		1·9			13		85	+ 5	·893	−·009	8·1	+2·5	18	+ 6·3	10·46	10·13	+ 0·33	13·37	13·61	− 0·24	1·66	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
9	1	0	24	0	1	0	0	0	E	N 81° E	2·4	2·3	+0·1	80	+30	84	+ 6	·897	−·013	3·5	−1·3	8	− 0·5	4·71	7·56	− 2·85	7·34	9·06	− 1·72	1·55	Gorakhpur.
3	1	6	2	8	0	4	3	3	S 74° E	S 89° E	2·8	3·8	−1·0	13	− 7	76	+ 8	·899	+·049	5·8	+2·0	14	+ 8·0	4·65	5·01	− 0·39	5·42	5·59	− 0·17	1·35	Benares.
8	2	5	8	1	0	1	4	1	N 54° E	N 46° E	3·5	5·8	−2·3	27	+14	73	+13	·877	+·084	6·8	+1·9	9	+ 3·6	8·63	4·59	+ 4·04	8·68	4·90	+ 3·78	2·62	Allahabad.
3	2	1	9	5	1	3	4	2	S 65° E	S 59° E	2·8	4·0	−1·2	23	+ 1	71	+10	·870	+·076	1·7	−1·8	7	+ 2·3	3·82	3·00	+ 0·82	4·27	3·37	+ 0·90	1·02	Cawnpore.

* Winds for 14 days. (a) Calm on 11 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·201	+·012	29·519	29·279	16th	29·098	23rd													
	Bahraich	407	29·165	+·001	29·529	29·234	10th	29·083	24th	82·4	76·8	93·8	−4·7	78·0	−1·8	85·9	−3·3	15·8	103·5	1st	71·3	22nd
10	Jhansi	824	28·756	−·010	29·515	28·819	5th	28·702	21st	88·5	76·9	103·4	−0·4	83·2	−1·8	93·3	−1·1	20·2	108·4	22nd	77·3	23rd
	Agra	556	29·004	0	29·502	29·087	11th	28·915	24th	92·3	78·7	104·4	0	84·6	−0·3	94·5	−0·1	19·8	109·4	1st	75·1	5th
	Mainpuri	516	29·052	+·012	29·516	29·174	10th	28·950	24th	88·2	77·6	103·1	−0·5	81·8	−0·9	92·5	−0·7	21·3	110·8	1st	77·1	11th
	Bareilly	568	28·993	+·001	29·517	29·121	10th	28·891	24th	82·7	77·7	91·5	−5·8	77·7	−2·5	86·1	−4·1	16·8	108·3	1st	72·0	11th
	Roorkee	899	28·661	−·003	29·514	28·747	11th	28·574	24th	82·4	75·8	94·2	−6·5	77·2	−1·7	85·7	−4·1	17·0	107·4	1st	70·6	10th
	VI.—Punjab.																					
11	Delhi	718	28·841	+·003	29·510	28·933	16th	28·749	24th	85·9	76·0	102·0	−1·6	81·7	−2·1	91·9	−1·9	20·3	107·3	2nd	73·8	4th
	Hissar	725	28·819	+·010	29·488	28·902	28th	28·722	24th	91·0	75·7	106·9	0	82·1	−1·5	94·5	−0·7	24·8	113·6	21st	73·6	26th
	Patiala	*818*	28·712	−·028	29·480	28·799	28th	28·625	25th	86·3	76·7	100·0	−2·5	79·9	−1·0	90·0	−1·7	20·1	107·6	3rd	72·2	3rd
	Ambala	892	28·647	−·014	29·486	28·729	28th	28·556	24th	86·6	75·9	102·2	−0·8?	79·7	−0·5	91·0	−0·7?	22·5	110·7	3rd	72·3	3rd
	Ludhiana	812	28·714	−·012	29·476	28·813	28th	28·611	6th	8·62	75·3	102·8	−2·3	80·9	−0·2	91·9	−1·3	21·9	110·3	3rd	72·4	3rd
	Lahore	702	28·793	−·027	29·447	28·894	28th	28·685	24th	89·2	76·2	105·9	−1·5	81·7	+1·6	93·8	+0·1	24·2	111·1	30th	72·2	1th
	Sialkot	830	28·671	−·028	29·452	28·763	16th & 18th.	28·562	24th	88·9	76·6	102·0	−3·5?	80·0	−0·9	91·0	−2·4?	22·0	108·8	2nd & 3rd	71·5	26th
	Rawalpindi	1,674	27·874	−·022	29·448	27·976	28th	27·782	24th	89·8	74·3	103·1	−0·4	76·6	+1·2	89·9	+0·4	26·5	111·3	1st	68·1	16th
12	Khushab	612	28·876	−·030	29·441	28·987	28th	28·740	24th	91·5	75·2	107·2	−0·3	82·8	+0·4	95·0	+0·1	24·4	111·7	30th	74·2	3rd & 16th.
	Lyallpur	605	28·874		29·429	28·989	28th	28·744	24th	92·1	75·2	106·8*		83·4		95·0*		23·4	110·4	30th	77·1	26th
	Montgomery	558	28·922	−·028	29·432	29·023	28th	28·788	24th	91·7	76·7	105·7	−2·4	82·8	−1·1	94·8	−1·7	25·9	114·3	13th	78·4	27th
	Multan	426	29·042	−·029	29·421	29·152	28th	28·916	24th	90·3	79·3	105·9	−2·4	85·4	+1·2	95·7	−0·6	20·5	108·9	29th	81·7	25th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·404	−·037	29·457	28·516	16th	28·300	6th	88·8	74·1	108·0	+2·1	76·6	−0·7	92·3	+0·7	31·4	115·0	1st	69·4	26th
	D. I. Khan	590	28·891	−·038	29·435	29·002	28th	28·782	24th	91·0	75·6	108·7	+0·8	83·8	+2·7	96·3	+1·7	24·9	116·4	8th	73·3	25th
	VIII.—Sind.																					
16	Jacobabad	186	29·307	−·009	29·448	29·413	28th	29·195	3rd	89·6	80·0	112·5	−1·4	83·6	−0·7	98·0	−1·1	28·9	118·3	25th	81·2	25th
	Hyderabad	96	29·442	−·010	29·489	29·523	28th	29·360	3rd	86·1	77·6	101·3	−2·9	80·9	−0·8	91·1	−1·9	20·4	107·8	10th	79·1	16th
	Karachi	13	29·594	+·017	29·558	29·669	12th	29·532	1st	84·3	79·5	88·6	−2·4	81·9	−0·5	85·2	−1·5	6·7	90·1	22nd	80·6	11th & 12th.
	IX.—Rajputana.																					
17	Bikaner	*771*	28·794	+·010	29·511	28·878	11th	28·699	24th	88·1	76·2	107·0	−0·1	83·4	−2·1	95·2	−1·1	23·6	111·0	30th	79·3	8th & 22nd.
	Jodhpur	780	28·832	+·012	29·559	28·915	12th	28·749	25th	84·7	73·2	101·0	−3·6	80·9	−1·8	91·0	−2·7	20·1	105·3	30th	77·3	10th
18	Jaipur	1,431	28·185	+·002	29·531	28·238	28th	28·124	25th	87·5	73·6	104·1	+0·1	81·1	−0·6	92·6	−0·3	23·0	109·3	21st	74·8	22nd
	Ajmer	1,611	28·023	+·001	29·548	28·077	28th	27·959	24th	83·4	72·9	98·9	−2·1	81·1	−0·6	89·9	−1·3	17·8	104·2	30th	77·6	7th
	Kotan	832	28·767	+·002	29·533	28·839	5th	28·710	21st	90·4	74·3	103·7	−2·3	84·6	−1·8	94·1	−2·1	19·1	106·8	11th	75·2	22nd

N. B.— Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

B—*continued.*

stations in India, etc., in June, 1918—*continued.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.							Station.
Number of winds from																												
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
19	0	1	4	1	4	1	0	0	S 45° E	S 89° E	1·2	3·1	−1·9	27	− 9					6·4	+1·9	10	+4·3	8·72	4·38	+4·34	8·72	5·37	+3·35	3·92	Lucknow.
18	0	0	9	1	1	0	0	1	S 84° E	S 69° E	2·6	3·6	−1·0	30	−30	77	+ 3	·847	−·050	5·4	+1·7	8	+0·7	8·07	5·91	+2·16	11·14	7·56	+3·58	3·20	Bahraich.
1	1	2	2	1	1	13	7	1	S 60° W	N 89° W	5·8	4·0	+1·8	43	+12	58	+ 2	·767	−·012	2·1	−0·9	3	−2·8	1·85	4·48	−2·63	1·86	4·83	−2·97	1·17	Jhansi.
2	2	5	5	2	3	6	3	2	S 38° E	S 16° W	4·6	4·7	−0·1	7	−19	53	− 1	·797	+·056	3·2	0	1	−3·0	0·94	2·41	−1·47	0·98	2·88	−1·90	0·90	Agra.
4	1	1	8	7	3	1	3	2	S 57° E	N 80° E	2·4	2·1	+0·3	33	+17	62	+ 3	·800	+·022	5·3	+0·8	3	−1·4	0·89	2·67	−1·78	1·04	3·16	−2·12	0·35	Mainpuri.
17	0	0	5	5	2	0	1	0	S 53° E	S 55° E	0·9	3·1	−2·2	27	−14	79	+12	·881	+·070	6·4	+2·8	11	+5·6	8·35	5·01	+3·34	8·53	5·76	+2·77	2·30	Bareilly.
16	0	0	0	14	0	0	0	0	S 15° E	S 41° E	2·8	2·6	+0·2	46	+ 5	74	+15	·804	+·105	3·9	+0·8	9	+3·5	7·71	4·98	+2·73	7·75	5·86	+1·89	1·96	Roorkee.
																															VI.—Punjab.
1	1	1	2	14	3	0	3	5	S 39° E	S 44° E	5·5	3·6	+1·9	33	+20	63	+10	·767	+·065	2·8	−1·2	3	−1·2	1·12	3·08	−1·94	1·27	3·68	−2·41	0·50	Delhi.
1	1	1	2	3	4	7	10	1	S 52° W	S 27° W	6·3	5·2	+1·1	46	+20	47	− 2	·682	−·022	3·0	+0·2	2	−0·9	0·40	1·76	−1·36	0·40	2·31	−1·91	0·17	Hissar.
1	1	1	2	20	1	0	4	0	S 45° E		5·5			60		64	+ 7	·793	+·049	3·0	+0·5	3	−0·1	3·20	2·21	+0·99	3·20	2·92	+0·28	1·97	Patiala.
4	1	0	6	17	0	0	0	2	S 60° E	S 61° E	4·6	1·8	+2·8	62	+10	61	+ 2	·762	+·029	3·8	+1·6	6	+1·0	1·93	3·85	−1·92	1·93	4·70	−2·77	0·44	Ambala.
7	0	1	0	13	5	2	0	2	S 28° E	S 37° E	2·3	2·0	+0·3	49	+12	60	+10	·729	+·066	1·5	−0·8	3	−0·5	2·25	2·60	−0·35	2·25	3·26	−1·01	1·19	Ludhiana.
3	0	1	2	14	3	2	3	2	S 29° E	S 60° E	2·6	2·6	0	46	+16	53	+ 3	·733	+·048	1·0	−1·4	4	+1·1	1·83	1·76	+0·07	1·83	2·48	−0·65	1·33	Lahore.
3	1	6	14	6	0	0	0	0	N 87° E	N 81° E	2·6*	2·3	+0·3	72	+28	58	+ 8	·765	+·085	1·8	+0·3	4	+0·3	2·21	2·50	−0·29	2·21	3·58	−1·37	1·39	Sialkot.
5	1	5	5	7	1	0	4	2	E	N 89° E	3·7	2·0	+1·7	27	+ 7	47	+ 3	·652	+·093	2·2	−0·3	3	−0·5	2·59	2·07	+0·52	2·59	3·37	−0·78	1·36	Rawalpindi.
3	1	10	11	3	1	0	1	0	N 75° E	N 69° E	7·0	5·2	+1·8	62	+10	45	+ 1	·658	+·070	1·1	−0·3	2	−0·5	1·01	1·45	−0·44	1·06	2·16	−1·10	0·75	Khushab.
2	0	2	4	5	7	9	1	0	S 6° E		3·7			49		43		·644		0·3		1	−1·3	0·12	1·55	−1·43	0·16	1·90	−1·74	0·12	Lyallpur.
0	0	1	2	2	10	13	2	0	S 19° W	S 3° W	6·0	6·9	−0·9	69	+32	48	+ 8	·716	+·107	0·5	−0·8	0	−1·6	0	0·99	−0·99	0	1·31	−1·31	0	Montgomery.
5	2	0	0	8	12	3	0	0	S 11° E	S 3° W	2·1	2·4	−0·3	59	+29	60	+10	·851	+·028	0·4	−0·3	0	−1·2	0	0·64	−0·64	0	0·93	−0·93	0	Multan.
																															VII.—North-West Frontier Province.
21	8	1	0	0	0	0	0	0	N 4° E	N 6° W	0·8	3·2	−2·4	30	+ 8	49	+ 8	·659	+·096	0·9	−0·9	4	+3·1	0·83	0·36	+0·47	0·87	1·24	−0·37	0·24	Peshawar.
22	2	4	1	0	0	0	0	1	N 30° E	N 51° E	2·8	1·8	+1·0	20	− 6	47	−8?	·687	−·097?	0·5	−0·8	1	−0·7	0·27	0·66	−0·39	0·27	1·05	−0·78	0·22	D. I. Khan.
																															VIII.—Sind.
4	0	1	0	24	0	1	0	0	S 45° E	S 51° E	3·1	3·9	−0·8	76	+21	64	+ 9	·893	+·062	0	−0·9	0	−0·4	0	0·20	−0·20	0	0·33	−0·33	0	Jacobabad.
0	0	0	0	0	14	15	1	0	S 26° W	S 39° W	12·3	12·8	−0·5	92	+11	65	+ 3	·811	+·004	0	−3·0?	0	−0·8	0	0·49	−0·49	0	0·64	−0·64	0	Hyderabad.
0	0	0	0	0	0	16	14	0	S 66° W	S 75° W	15·8	12·8	+3·0	89	+ 3	80	0	·940	−·021	6·7	+1·3	0	−0·6	0	0·97	−0·97	0	1·02	−1·02	0	Karachi.
																															IX.—Rajputana.
0	0	0	0	0	8	14	7	1	S 46° W	S 38° W	8·5	6·9	+1·6	76	+ 9	56	+ 2	·731	−·046	1·1	−0·8	0	−2·4	0·15	1·43	−1·28	0·16	2·01	−1·85	0·09	Bikaner.
0	0	0	0	0	1	25	4	0	S 50° W		6·9			92		56	− 1	·659	−·068	4·8	+1·7	1	−0·9	0·13	1·26	−1·13	0·18	1·49	−1·31	0·15	Jodhpur.
1	1	0	0	0	0	4	18	6	N 84° W	S 88° W	5·5	5·0	+0·5	82	+45	50	− 3	·644	−·052	2·8	−0·5	0	−3·7	0·03	2·17	−2·14	0·03	2·69	−2·66	0·03	Jaipur
1	0	0	0	0	0	10	14	5	S 82° W	S 84° W	8·1	6·9	+1·2	82	+12	59	− 2	·675	−·080	2·9	−0·2	1	−1·1	0·68	2·24	−1·56	0·68	2·77	−2·09	0·68	Ajmer.
1	0	0	0	0	0	16	9	4	S 70° W		6·2			79		45	− 3	·635	−·045	4·8	+2·4	3	−1·3	3·18	2·54	+0·64	3·18	3·03	+0·15	2·75	Mount Abu.

* Mean of 16 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·211	+·027	29·625	29·286	12th	29·144	24th	84·8	70·4	101·6	−0·7	79·6	−0·9	90·6	−0·8	22·0	104·7	29th	72·7	30th
	Bhuj	334	29·315	+·015	29·594	29·383	12th	29·250	1st, 24th & 25th.	85·1	77·2	95·0	−2·5	79·7	−0·1	87·4	−1·3	15·3	98·6	19th	78·3	28th
	Jamnagar	61	29·604	+·002	29·610	29·676	12th	29·541	1st	86·3	77·2	95·5	−0·7	78·9*	−0·2?	87·4*	−3·5?	16·6	99·1	23rd	75·5	10th
	Dwarka	37	29·613	+·008	29·626	29·710	5th	29·584	19th	84·1	78·5	88·7	−0·3	81·9	0	85·3	−0·1	6·8	90·3	2·th, 28th & 29th.	80·7	11th
	Rajkot	429	29·251	+·013	29·624	29·323	12th	29·191	18th & 19th.	84·7	75·3	99·0	−0·9	75·3	−2·5	87·2	−1·7	23·7	101·1	19th & 29th.	71·5	7th
	Veraval	*18*	29·695	+·024	29·655	29·790	5th	29·598	19th	83·1	78·3	85·2	−1·2	82·1	−0·9	83·7	−1·1	3·1	87·1	30th	80·1	22nd
	Bhavnagar Para	55	29·64	+·007	29·612	29·723	5th	29·572	18th	85·8	80·8	100·0	+0·2	79·6	−0·7	89·8	−0·3	20·4	104·0	9th	76·6	27th
	Surat	39	29·689	+·022	29·671	29·774	5th	29·596	19th	84·9	78·1	91·7	−1·7	80·0	+0·4	85·8	−0·7	11·7	94·3	18th & 19th.	77·1	30th
	Ahmadabad	163	29·537	+·027	29·648	29·569	5th	29·467	19th	85·7	76·5	102·2	+0·7	79·9	−1·4	91·1	−0·3	22·3	105·5	26th	72·4	30th
25	Bombay	37	29·740	+·030	29·717	29·853	5th	29·622	19th	82·2	77·7	87·4	−0·6	79·6	−0·1	83·5	−0·3	7·8	89·1	12th & 30th.	76·4	8th & 26th.
	Ratnagiri	207	29·590	+·022	29·737	29·894	5th	29·489	19th	81·9	76·8	85·5	−1·3	76·8	−0·6	81·1	−0·9	8·7	87·9	16th	72·7	3rd
	Marmagao	*60*	29·768	+·023	29·762	29·881	5th	29·699	19th	81·6	78·4	86·1	−0·6						88·7	14th		
	Karwar	44	29·808	+·033	29·786	29·909	5th	29·749	28th, 29th & 30th.	79·6	76·6	85·2	0	76·2	0	80·7	0	9·0	97·9	12th	73·2	19th
26	Malegaon	1,430	28·307	+·027	29·063	28·398	5th	28·216	19th	81·5	75·1	96·3	+0·6	74·2	−0·9	85·3	−0·1	22·1	101·3	17th	71·0	9th, 21st & 22nd.
	Ahmadnagar	2,154	27·629	+·020	29·680	27·726	5th	27·526	19th	77·3	65·0	92·2	+0·4	69·8	−2·3	81·0	−0·9	22·4	93·0	29th	65·8	10th
	Poona	1,846	27·927	+·015	29·690	28·038	5th	27·820	19th	77·6	70·5	89·1	−0·7	71·9	−0·7	80·5	−0·7	17·2	92·4	15th & 19th.	68·1	14th
	Sholapur	1,590	28·187	+·022	29·200	28·288	5th	28·111	30th	78·8	70·6	94·4	−0·8	71·8	−1·8	83·1	−1·3	22·6	97·5	12th	69·7	20th
	Bijapur	*1,948*	27·858	+·033	29·719	27·960	5th	27·779	30th	76·6	70·1	90·6	−1·1	70·7	−1·1	80·7	−1·1	19·9	96·0	10th	69·1	20th & 22nd.
	Belgaum	2,562	27·309	+·037	29·765	27·402	5th	27·216	19th	71·9	69·1	80·6	−0·6	67·0	−1·0	73·8	−0·8	15·6	85·7	14th	64·3	11th & 12th.
	XI.—Central India.																					
20	Neemuch	1,626	28·044	+·005	29·589	28·119	5th	27·931	30th	81·2	72·9	96·4	−2·3	76·7	−1·1	86·5	−1·7	19·7	100·7	30th	71·8	19th
	Indore	1,823	27·876	+·011	29·614	27·961	5th	27·803	30th	79·5	71·9	94·0	−1·3	74·9	−0·7	84·5	−1·0	19·1	99·1	11th	70·1	30th
21	Nowgong	754	28·829	+·004	29·520	28·896	12th	28·775	21st	86·9	75·9	101·3	−1·3	82·3	−0·8	91·8	−1·1	19·0	107·0	22nd	76·0	1st.
	Sutna	1,041	28·558	+·022	29·534	28·613	12th	28·468	18th	84·5	75·0	94·6	−5·5	79·0	−3·0	86·8	−4·3	15·6	101·8	10th	72·8	10th
	XII.—Central Provinces.																					
22	Buldana	2,134								77·1	70·4	91·2	−1·3	72·4	−1·1	81·9	−1·2	18·9	97·0	14th	68·4	30th
	Akola	925	28·779	+·021	29·644	28·891	5th	28·685	30th	81·7	73·1	95·0	−2·8	76·7	−1·3	86·4	−2·1	19·3	102·0	12th	70·8	30th
	Amraoti	1,215	28·478	+·018	29·631	28·586	5th	28·377	30th	79·8	71·9	93·9	−3·9	76·1	−1·2	85·0	−2·5	17·8	101·3	11th	71·1	30th
23	Khandwa	1,044	28·653	+·023	29·638	28·745	5th	28·558	30th	81·2	72·8	96·6	−1·8	77·2	−1·8	86·9	−1·8	19·4	101·5	14th	70·2	29th
	Hoshangabad	1,006	28·660	+·018	29·604	28·747	5th	28·571	30th	82·5	74·8	96·0	−2·5	77·0	−2·7	86·5	−3·1	19·0	103·5	11th	71·2	20th
	Saugor	1,807	27·824	−·012	29·536	27·905	5th	27·754	18th	81·7	72·3	96·7	−2·1	76·6	−1·8	86·6	−1·9	20·1	101·2	16th	69·2	29th
	Jubbulpore	1,327	28·283	−·002	29·543	28·382	5th	28·191	18th	81·3	73·7	93·2	−4·9	76·9	−2·0	85·0	−3·5	16·3	93·9	10th	72·7	21st
	Seoni	2,033	27·638	+·008	29·577	27·727	5th	27·545	18th	78·3	71·6	88·2	−7·2	72·6	−2·9	80·4	−5·1	15·6	98·4	11th	68·9	29th
	Nagpur	1,017	28·656	+·025	29·615	28·759	5th	28·555	30th	80·3	73·3	92·2	−7·0	76·1	−2·9	84·2	−4·9	16·1	102·7	11th	71·0	17th
24	Pendra	2,940	27·600	+·008	29·544	27·724	5th	27·511	17th	78·2	73·0	87·2	−7·5	72·4	−4·6	79·8	−6·1	14·8	94·9	5th & 9th	68·9	3rd

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 24 days.

B—*continued.*

stations in India, etc., in June, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay.
0	0	0	0	0	0	22	7	1	S 58° W	S 69° W	13·0	12·2	+0·8	92	+9	67	0	·796	—·020	6·9	+1·4	1	—1·9	2·06	2·08	— 0·08	2·16	2·26	—0·10	1·98	Deesa.
0	0	0	0	0	0	5	5	0	S 83° W	S 72° W	12·6	12·9	—0·3	96	+18	69	— 5	·827	—·081	4·5	—0·7	0	—2·3	0	1·84	— 1·84	0	1·90	—1·90	0	Bhuj.
0	0	0	0	0	0	20	10	0	S 61° W		15·2			93		65	— 4	·810	—·059	3·9	+0·2	2	—0·6	1·65	1·94	— 0·29	1·65	1·96	—0·31	1·12	Jamnagar.
0	0	0	0	0	1	19	10	0	S 59° W		15·1			89		77	— 3	·893	—·078	5·3	+0·4	0	—2·7	0	2·48	— 2·48	0	2·49	—2·49	0	Dwarka.
0	0	0	1	0	5	20	4	1	S 46° W	S 81° W	15·2	10·3	+4·9	86	+12	63	—11	·750	—·130?	7·0	+1·6	1	—3·7	0·46	4·37	— 3·91	1·86	4·53	—2·67	0·41	Rajkot
0	1	0	0	0	3	15	11	0	S 59° W	S 69° W	14·1	8·3	+6·1	79	+1	79	— 5	·902	—·068	5·2	—0·9	1	—3·0	0·38	4·27	— 3·89	0·62	4·31	—3·69	0·21	Veraval.
0	0	0	0	1	0	23	4	3	S 57° W	S 48° W	6·6	11·5	—4·9	86		80	+9?	·984	+·094?	5·9	—0·3	0	—4·7	0·07	4·56	— 4·49	0·86	4·68	—3·82	0·07	Bhavnagar Para.
4	0	0	0	3	0	19	3	0	S 23° W	S 49° W	7·2	9·6	—2·4	69	— 1	74	— 3	·834	—·037	7·0	+0·5	3	—4·9	1·13	8·61	— 7·48	2·01	8·70	—6·69	0·33	Surat.
1	0	0	0	0	23	3	3	0	S 56° W	S 61° W	6·6	5·6	+1·0	82	+23	64	— 4	·794	—·057	4·8	—1·7	2	—2·7	1·20	4·60	— 3·40	2·37	4·71	—2·34	0·90	Ahmadabad.
0	0	0	0	5	3	8	13	1	S 54° W	S 58° W	6·6	11·1	—4·5	62	+14	81	— 1	·884	—·046	6·7	—0·9	10	—4·7	10·82	18·78	— 7·96	21·82	19·42	+2·40	5·34	Bombay.
1	1	1	1	0	1	8	7	5	S 65° W	S 60° W	7·3	7·4	—0·1	40	+ 9	78	— 5	·848	—·048	6·3	—1·1	15	—5·3	18·08	28·97	—10·89	30·14	30·08	+0·06	4·81	Ratnagiri.
0	2	2	3	1	6	14	2	0	S 27° W	N 76° W	7·0	8·0	—1·0	49	0	86	0	·925	— ·003	7·9	+0·4	13	—7·1	15·37	30·13	—14·76	48·59	31·81	+16·78	4·23	Marmagao.
16	0	0	0	0	11	0	0	0	S	S 62° W	3·5	4·4	—0·9	47	— 5	87	+ 3	·879	+·017	5·4	—1·9	20	—2·?	20·93	37·6?	—16·71	53·67	40·25	+13·42	5·90	Karwar.
0	1	0	0	0	2	22	5	0	S 51° W	S 81° W	11·1	10·2	+0·9	82	+ 9	62	— 6	·659	— ·080	4·8	—0·2	2	—5·1	1·21	4·56	— 3·35	3·26	5·35	—2·09	0·88	Malegaon.
2	1	0	0	0	0	6	14	7	N 86° W	N 88° W	7·3	11·8	—4·5	76	+21	65	— 9	·636	—·079	4·1	—1·4	1	—6·7	1·44	5·13	— 3·69	6·56	5·92	+ 0·64	1·30	Ahmadnagar.
13	0	0	0	0	0	3	14	0	S 83° W	S 82° W	10·0	11·9	—1·9	53	—28	70	— 2	·656	—·010	2·8	—4·2?	2	—5·2	0·34	5·01	— 4·67	3·73	6·09	—2·36	0·18	Poona.
0	0	0	0	0	0	0	12	0	W	S 81° W	11·5	10·0	+1·5	76	— 1	65	— 1	·645	—·030	6·8	+0·2	4	—2·6	1·04	4·77	— 3·73	5·72	5·69	+0·03	0·47	Sholapur.
0	2	0	0	0	0	9	14	5	S 88° W	S 78° W	9·0	7·1	+1·9	79	0	71	— 5	·658	—·053	5·2	—1·2	2	—3·6	0·68	3·19	— 2·51	4·87	4·39	+0·48	0·50	Bijapur.
2	0	0	0	0	0	16	11	1	S 65° W	S 75° W	5·4	16·7	—11·3	82	+12	86	0	·673	—·017	7·2	—0·3	5	—5·4	2·38	8·24	— 5·86	5·02	10·63	—5 61	1·00	Belgaum.
																															XI.—Central India.
1	0	0	0	0	0	6	23	0	S 82° W	S 81° W	9·6	9·9	—0·3	89	+15	66	— 3	·706	—·073	4·2	+0·2	3	—1·8	5·61	4·01	+ 1·60	6·08	4·45	+1·63	2 20	Neemuch.
0	0	0	0	0	1	0	21	8	N 80° W	S 87° W	6·7	5·1	+1·6	89	+15	69	— 3	·680	—·088	7·7	+1·8	4	—3·4	3·37	5·55	— 2·18	4·01	6·03	—2·02	1·55	Indore.
1	1	2	2	2	0	1	17	4	N 79° W	S 86° W	4·4	3·4	+1·0	53	+ 5	59	+ 2	·743	+·006	7·4	+1·8	4	—2·2	0·88	6·24	— 5·36	0·98	6·58	—5·60	0·26	Nowgong.
3	2	1	5	0	1	7	11	0	S 72° W	S 14° W	4·6	7·1	—2·5	33	+ 4	65	+10	·757	+·064	5·3	—0·1	9	+2·7	3·24	5·59	— 2·35	3·98	6·05	—2·07	0·98	Sutna.
																															XII.—Central Provinces.
0	1	0	0	0	0	5	16	8	N 83° W		8·2	8·0	+0·2	83		71		·657		6·2		5	—1·4	6·84	6·71	+ 0·13	10·00	7·20	+2·80	2·10	Buldana.
0	0	0	0	0	1	2	20	7	N 85° W	N 81° W	8·9	7·2	+1·7	86	+13	65	— 1	·698	—·052	7·1	+1·0	4	—4·2	4·16	5·27	— 1·11	7·78	5·63	+2·15	2·61	Akola.
2	0	0	0	0	0	2	17	9	N 78° W	S 87° W	8·6	6·5	+2·1	82	+ 4	69	0	·685	—·077	5·5	—0·2	12	+3·4	8·06	6·55	+ 1·51	11·55	7·09	+4·46	3·61	Amraoti.
0	1	0	0	0	0	0	22	7	N 78° W	N 87° W	9·8	7·5	+2·3	92	+10	66	0	·697	—·039	6·4	+1·3	5	—1·9	4·21	5·18	— 0·97	4·55	5·54	—0·99	1·24	Khandwa.
3	1	0	0	0	0	10	3	13	N 81° W	S 62° W	4·2	3·7	+0·5	62	— 9	70	+ 4	·757	—·034	6·7	+1·3	12	+4·0	5·59	5·70	— 0·11	5·85	6·19	—0·34	1·45	Hoshangabad.
1	1	0	0	0	0	0	16	12	N 69° W	S 80° W	8·1	4·7	+3·4	82	+15	63	+ 2	·671	—·018	5·2	+0·5	9	+0·9	6·00	6·64	— 0·64	6·35	7·10	—0·75	1·73	Saugor.
2	0	0	1	1	1	11	10	4	S 76° W	S 70° W	3·5	3·7	—0·2	66	+ 7	69	+ 8	·734	+·033	5·4	+0·7	12	+2·9	6·75	7·50	— 0·75	7·23	7·96	—0·73	1·08	Jubbulpore.
4	0	0	0	0	1	5	12	8	N 87° W	S 86° W	3·1	4·2	—1·1	69	+13	72	+ 9	·691	+·005	6·9	+2·1	15	+3·5	20·68	8·86	+11·82	24·96	9·50	+15·46	9·62	Seoni.
0	2	1	1	0	1	4	12	9	N 75° W	S 87° W	6·6	6·6	0	62	+ 3	72	+ 8	·720	—·012	5·5	—0·6	13	+2·4	10·97	8·78	+ 2·19	13·32	9·53	+3·79	2·50	Nagpur.
1	3	1	1	3	7	2	5	7	S 75° W		5·7			23		78	+18	·746	+·090	5·7	+0·3	17	+5·6	16·49	7·50	+ 8·99	18·07	8·31	+9·73	2·84	Pendra.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces —*concld.*																					
	Raipur	970	28·655	+·002	29·568	28·749	5th	28·553	16th	78·6	73·6	87·3	−10·5	74·1	−4·8	80·7	−7·7	13·2	101·3	10th	69·9	19th
	Chanda	*634*	29·047	+·012	29·623	29·157	5th	28·956	30th	81·1	75·5	92·1	−7·2	76·9	−2·9	84·5	−5·1	15·2	102·3	11th	71·0	29th
	Jagdalpur	1,813	27·877		29·605	27·975	5th	27·789	30th	76·8	72·1	85·1		71·4		78·3		13·7	95·3	10th	67·3	28th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·858	+·012	29·677	27·949	5th	27·761	19th	77·5	70·5	93·2	−1·3	71·8	−1·0	82·4	−1·1	21·4	97·6	28th	69·5	7th
	Nizamabad	1,248	28·486	−·004?	29·665	28·599	5th	28·401	30th	79·7	71·5	93·7	−3·5	75·2	−2·0	84·4	−2·7	18·5	100·9	12th	70·9	28th
	Bidar	*2,165*								77·1	70·6	93·0	+0·3	53·5?	−18·6?	73·2?	−9·1?	39·5	97·5	12th	50·1	2nd
28	Gulbarga	1,503	28·260	+·007?	29·690	28·366	5th	28·179	30th	77·8	70·5	95·6	+0·1	72·7	−1·3	84·1	−0·6	22·9	100·6	12th	69·7	20th
	Raichur	*1,311*	28·469	+·044	29·731	28·600	5th	28·412	30th	79·3	72·2	94·8	−0·3	73·9	−1·1	84·3	−0·7	20·9	98·6	11th	71·0	30th
	Hyderabad (Deccan)	1,738	28·053	+·034	29·684	28·170	5th	27·973	30th	79·4	71·8	94·1	−0·5	75·5	−0·7	84·8	−0·6	18·6	99·6	13th	72·2	1st, 20th & 30th.
	Hanamkonda	877	28·844	+·025	29·658	28·959	5th	28·769	30th	81·7	73·9	92·3	−5·7	77·7	−2·1	85·0	−3·9	14·6	101·0	13th	72·0	29th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·447	+·029	29·746	27·538	5th	27·377	29th	73·8	67·9	87·1	+0·8	69·0	−1·1	78·0	−0·1	18·1	91·8	12th	67·7	8th
	Hassan	3,149	26·765	+·027	29·774	26·855	4th	26·691	29th	70·5	66·7	80·9	+0·3	65·1	−0·9	73·0	−0·3	15·8	86·4	11th	61·1	8th
	Bangalore	3,021	26·885	+·024	29·770	26·975	4th	26·811	29th	71·1	66·8	84·8	−0·1	65·8	−1·1	75·3	−0·6	19·0	88·3	27th	63·1	8th
	Mysore	2,518	27·374	+·020	29·776	27·489	4th	27·299	29th	74·2	67·9	85·9	+1·1	67·1	−1·0	76·5	+0·1	18·8	90·0	6th	63·2	7th
	XV.—Madras.																					
30	Mangalore	72	29·806	+·019	29·810	29·894	5th	29·727	28th	78·4	75·6	84·8	−0·5	74·6	+0·6	79·7	+0·1	10·2	88·3	9th	71·3	29th
	Calicut	27	29·682	+·021	29·818	29·941	3rd & 4th.	29·793	28th	78·1	76·2	83·7	−1·0	75·1	0	79·4	−0·5	8·6	87·8	9th	72·6	19th
	Cochin	9	29·897	+·020	29·834	29·954	4th	29·820	29th	80·0	75·6	85·3	0	75·5	+0·7	80·4	+0·3	9·8	89·4	27th	72·5	18th
	Trivandrum	198	29·706	+·023	29·835	29·772	5th	29·631	29th	78·1	75·2	83·5	+0·5	75·0	−0·8	79·3	−0·1	8·5	86·4	5th	71·5	20th
31	Pamban	37	29·791	+·006	29·755	29·864	3rd	29·718	29th	84·6	77·1	89·0	−1·2	77·3	−3·0?	83·2	−2·1?	11·7	91·0	13th	76·3	19th
	Madura	447	29·385	+·022	29·760	29·469	3rd	29·293	29th	84·6	74·0	98·8	+0·8	77·8	+0·7	88·3	+0·7	21·0	101·6	11th	73·8	9th
	Pudukkottai	318	29·513	+·023	29·759	29·596	7th	29·441	29th	84·9	72·2	99·9	+1·0	77·9	−0·1	88·9	+0·3	22·0	102·9	11th	73·4	2nd
	Negapatam	31	29·790	+·022	29·749	29·868	4th	29·724	29th	84·6	77·2	98·0	+0·4	79·4	0	88·7	+0·2	18·6	101·8	10th	76·6	15th
	Trichinopoly	255	29·580	+·029	29·766	29·668	3rd	29·503	29th	84·9	73·7	100·5	+1·5	78·4	−0·2	89·5	+0·7	22·1	103·1	3rd	72·3	11th
	Coimbatore	1,341	28·518	+·034	29·784	28·601	5th	28·433	29th	78·9	72·3	89·7	+0·1	71·4	−0·4	80·5	−0·1	18·3	92·9	9th	66·1	8th
	Salem	913	28·932	+·036	29·778	29·010	5th	28·850	29th	79·5	73·2	95·4	+0·1	74·3	−0·2	84·9	−0·1	21·1	98·2	7th & 9th	72·7	27th
	Cuddalore	37	29·764	+·019	29·731	29·852	5th	29·693	29th	84·4	75·6	96·0	−2·9?	78·3	−1·7	87·2	−2·3?	17·7	99·6	9th	73·0	11th
	Vellore	707	29·089	+·015	29·727	29·183	4th	29·005	29th	82·2	74·6	97·3	+0·4	77·7	−0·9	87·5	−0·3	19·6	101·0	6th	73·0	28th
	Madras	22	29·759	+·017	29·712	29·849	3rd & 4th.	29·680	29th	85·7	76·7	98·2	−0·7	79·2	−1·7	88·7	−1·2	19·0	102·2	10th	72·9	15th
32	Cuddapah	428	29·366	+·024	29·725	29·470	5th	29·288	29th	86·2	75·5	94·4	−5·8?	80·3	−0·2	87·3	−3·0?	14·1	99·8	9th	73·5	27th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in June, 1918—*continued.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from									Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																						
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	54	55
																															XII.—Central Provinces—*concld.*
0	0	0	0	0	2	19	9	0	S 56° W	S 56° W	6·1	7·1	−1·0	89	+13	80	+16	·765	+·035	7·2	+1·0	17	+7·1	25·16	8·05	+17·11	28·15	8·95	+19·20	6·11	Raipur.
0	0	1	1	2	2	9	11	4	S 70° W	S 61° W	5·6	4·5	+1·1	59	− 6	77	+15	·811	+·073?	7·2	+0·9	10	+0·5	12·40	7·32	+5·08	14·93	7·94	+ 6·99	3·88	Chanda.
4	0	0	0	0	5	9	12	0	S 58° W		4·0			66		80		·732		7·0		14		11·18	9·13	+2·05	15·34	11·52	+ 3·82	2·35	Jagdalpur.
																															XIII.—Hyderabad.
1	0	0	0	0	0	5	17	7	N 87° W		14·4			82		70	+ 1	·657	−·040	9·0	+3·1?	5	−2·3	1·32	5·74	−4·42	7·44	6·44	+ 1·00	0·53	Aurangabad.
1	1	0	0	0	1	12	13	2	S 73° W		4·6			79		67	− 2	·668	−·089	5·1	−1·0	8	+0·1	4·04	5·40	−1·36	9·11	5·71	+ 3·40	1·00	Nizamabad.
0	0	0	0	0	0	16	3	11	S 82° W		5·6		-	73		72	− 6	·664	−·090	3·7	- 0·6	3	−3·7	1·29	5·02	−3·73	5·62	5·78	− 0·16	0·77	Bidar.
0	0	0	0	0	0	3	21	6	N 86° W	S 86° W	10·8	10·3	+0·5	89	+22	69	+ 4	·654	−·073	3·7	−2·9?	5	−2·3	1·02	4·81	−3·79	7·72	5·79	+ 1·93	0·26	Gulbarga.
1	0	0	0	0	0	7	12	10	N 85° W	S 74° W	11·8	10·2	+1·6	79	+ 4	70	+ 1	·702	−·010	6·1	+0·5	4	−2·3	1·02	3·56	−2·54	5·21	4·35	+ 0·86	0·36	Raichur.
0	0	0	0	0	0	4	16	10	N 81° W	N 87° W	7·9	6·6	+1·3	86	+ 2	69	+ 1	·678	−·015	7·2	+0·6	5	−1·6	1·46	4·64	−3·18	2·61	5·52	− 2·91	0·67	Hyderabad (Deccan).
1	1	0	0	0	2	7	14	5	S 84° W		5·0			72		65	+ 6	·696	+·010	7·3	+1·2	9	+1·2	4·81	5·78	−0·97	9·38	6·42	+ 2·96	1·35	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	13	14	2	S 71° W	S 68° W	7·6	8·1	−0·5	86	0	73	− 6	·606	−·068	7·0	−0·9	3	−3·6	0·49	3·04	−2·55	1·81	6·02	− 4·21	0·13	Chitaldrug.
0	0	0	0	0	0	6	18	6	W	S 83° W	8·2	3·7	+4·5	90	+ 9	92	+ 9	·611	−·032	6·3	−2·1	6	−3·9	1·14	4·03	−2·89	3·80	8·85	− 5·05	0·26	Hassan.
0	0	0	0	0	0	8	21	1	S 80° W	S 70° W	9·0	6·8	+2·2	89	0	79	− 1	·601	−·038	7·2	−0·1	2	−2·8	1·63	2·94	−1·31	9·47	7·10	+ 2·37	1·01	Bangalore.
0	0	0	0	0	0	11	19	0	S 74° W	S 62° W	8·5	10·7	−2·2	92	+11	72	− 8	·605	−·054	5·6	−2·7	2	−4·5	0·34	3·09	−2·75	3·66	8·37	− 4·71	0·12	Mysore.
																															XV.—Madras.
1	0	2	12	3	0	2	7	3	E	S 83° W	5·5	2·4	+3·1	17	+ 6	83	+ 2	·849	−·010	7·4	−1·2	26	+1·5	24·90	36·50	−11·60	56·21	42·27	+13·94	4·69	Mangalore.
15	0	2	2	0	0	3	2	6	N 54° W	N 22° E	4·1	7·1	−3·0	20	+ 9	91	+ 2	·875	+·014	7·8	−0·5	20	−3·9	17·86	34·05	−16·19	54·63	41·83	+12·80	2·35	Calicut.
10	1	4	6	1	0	2	4	2	N 41° E	N 9° W	5·4	4·5	+0·9	13	− 9	81	− 6	·823	−·035	5·8	−2·0	22	−1·7	15·47	28·43	−12·96	39·70	40·01	− 0·31	2·53	Cochin.
4	6	0	0	0	0	0	4	16	N 41° W	N 16° W	5·9	5·1	+0·8	72	+ 5	87	0	·837	+·002	7·3	−0·9	9	−7·7	5·76	13·11	−7·35	24·13	21·65	+ 2·48	2·95	Trivandrum.
0	0	0	0	2	7	19	1	1	S 33° W	S 39° W	12·1	9·8	+2·3	82	+ 4	69	− 9	·827	−·090	2·5	−0·7	0	−0·2	0	0·12	−0·12	0·85	0·90	− 0·05	0	Pamban.
0	2	0	0	0	0	2	13	13	N 63° W	N 79° W	5·8	3·0	+2·8	82	+22	59	− 5	·698	−·064	6·3	+1·1	3	+0·8	0·55	1·43	−0·88	2·97	4·17	− 1·20	0·22	Madura.
4	3	0	0	0	1	0	14	8	N 68° W		4·9			70		52	−14?	·619	−·143?	2·3	−4·6?	3	+0·5	1·42	1·33	+0·09	3·38	3·61	− 0·23	1·01	Pudukkottai.
0	0	0	0	0	0	2	27	1	S 89° W	S 61° W	7·3	6·1	+1·2	96	+15	70	+ 6	·833	+·041?	3·3	−1·3	3	+0·7	1·47	1·28	+0·19	4·16	2·96	+ 1·20	0·76	Negapatam.
0	0	0	0	0	0	14	16	0	S 69° W	S 80° W	6·8	6·7	+0·1	32	+ 7	57	− 5	·677	−·060	4·0	−1·6	3	+0·9	1·21	1·46	−0·25	2·17	4·67	− 2·50	0·79	Trichinopoly.
4	0	1	0	1	7	15	2	0	S 32° W	S 45° W	6·2	5·1	+1·1	66	−12	72	− 9	·710	−·061	3·1	−2·6	0	−4·7	0·09	1·72	−1·63	4·83	4·06	+ 0·77	0·07	Coimbatore.
2	0	0	0	0	7	16	4	1	S 42° W	S 32° W	5·1*	3·7	+1·4	72	+ 3	73	− 2	·735	−·063	5·2	−0·8	7	+1·8	2·66	3·03	−0·37	7·10	7·81	− 0·71	0·86	Salem.
1	0	0	0	0	0	21	7	1	S 58° W	S 62° W	6·5	2·1	+4·4	86	+16	65	− 3	·762	−·081	4·9	+0·2	3	+0·2	3·18	1·46	+1·72	5·43	2·14	+ 3·29	1·97	Cuddalore.
0	0	0	0	0	0	0	30	0	W		5·0			100		69	+ 6?	·754	+·026	5·0	+0·1	6	+0·9	2·47	2·46	+0·01	5·88	4·77	+ 1·11	0·94	Vellore.
0	0	0	0	0	8	9	13	0	S 54° W	S 68° W	5·1	6·4	−1·3	76	+ 2	65	+ 3	·792	−·005	5·1	−0·9	4	+0·2	1·80	1·77	+0·03	7·60	2·78	+ 4·82	0·82	Madras.
1	1	0	0	0	1	1	16	10	N 75° W	N 87° W				82	+ 4	59	− 2	·738	−·021	4·2	−2·2?	4	−0·7	1·18	3·00	−1·82	1·78	4·61	−2·83	0·37	Cuddapah.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras—*concld.*																					
	Bellary	1,475	28·332	+·025	29·726	28·4[illegible]	5th	28·258	29th & 30th.	86·7	71·2	94·5	—0·3	74·9	—0·9	84·7	—0·6	19·6	99·5	12th	72·9	4th
	Kurnool	923	28·373	+·037	29·730	28·[illegible]	4th & 5th.	28·303	5th	86·8	73·1	96·3	—0·8	77·2	+0·1	86·7	—0·3	19·1	98·9	11th & 14th.	73·6	6th
33	Nellore	66	29·690	+·019	29·690	29·7[illegible]	5th	29·630	15th	87·0	75·5	100·3	—1·3	80·6	—1·5	90·5	—1·4	19·7	104·4	11th	74·2	8th & 24th.
	Masulipatam	15	29·718	+·019	29·668	29·825	5th	29·653	29th	86·7*	77·1	98·4	+0·2	79·0	—1·5	88·7	—0·7	19·4	100·8	13th	73·6	30th
	Cocanada	26	29·685	+·024	29·649	29·785	5th	29·634	27th	82·9	77·6	94·2	—2·5	78·6	—2·5	86·4	—2·5	15·6	104·4	10th	72·1	29th
	Waltair (Vizagapatam)	*226*	29·459	+·027	29·624	29·5[illegible]	5th	29·391	3rd	82·6	77·2	90·5	—0·9	78·9	—1·4	84·7	—1·1	11·6	101·2	9th	73·9	18th
	Calingapatam	19	29·636		29·594	29·716	4th	29·584	27th	82·6	78·1	90·6		78·1		84·3		12·5	102·0	9th	73·8	12th & 13th.
	Gopalpur	33	29·579	+·014	29·575	29·679	4th	29·487	15th	82·0	78·2	88·1	—1·5	79·1	—1·3	83·6	—1·4	9·0	95·3	9th	74·1	11th
	Bay Islands.																					
1	P. V. Fraser	8	29·624		29·563	29·717	4th	29·506	14th	82·9	80·4											
	Port Blair	58	29·792	+·029	29·780	29·858	3rd	29·727	26th	80·6	76·9	84·9	—1·0	76·2	—1·6	80·6	—1·3	8·7	89·2	6th	73·1	9th, 19th & 21st.
	Table Island		29·725	+·025	29·745	29·795	4th	29·667	27th	80·9	77·7	84·5	—1·5	77·3	—0·5	80·9	—1·0	7·2	86·9	7th	71·3	29th
	Kashmir.																					
13	Muzaffarabad		27·220			27·308	10th	27·120	6th	78·7	68·2	97·9		71·8		84·9		26·1	108·6	1st	63·3	25th
	Srinagar	5,204	24·709	—·041	24·671	24·819	28th	24·571	24th	70·8	62·9	85·8	+3·4	69·5	+2·9	73·2	+3·2	25·3	92·1	7th	54·9	21st & 27th.
	Gulmarg	*8,569*	21·781	—·018	21·750	21·883	25th	21·685	24th	61·9	56·5	70·3	+3·5	45·9	+2·4	58·1	+2·9	24·4	79·7	1st	40·3	27th.
	Dras	*10,059*	20·735	—·021	20·703	20·8[illegible]	28th	20·643	24th	58·7	48·0	72·4	—1·5	46·2	+5·1	59·3	+1·8	26·2	79·8	9th	35·8	2,th
	Leh	*11,503*	19·660	—·030	19·628	19·750	28th	19·566	24th	57·8	45·5	75·9	+3·9	47·7	+3·8	61·8	+3·9	28·2	83·1	10th	41·2	26th
	Skardu	*7,505*	22·709	—·072	22·670	22·831	28th	22·546	24th	63·1	54·1	85·5	+6·1	60·8	+5·5	73·1	+5·8	24·7	94·8	10th	49·6	21st
	Gilgit	4,899	24·915	—·042	24·888	25·101	28th	24·698	24th	79·3	71·5	91·7	+2·4	68·6	+1·5	81·7	+1·9	26·1	103·7	10th	58·2	26th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·184		25·153	25·282	28th	25·074	24th	83·2	61·8	101·1		72·6		86·9		28·5	105·5	7th	66·9	29th
	Quetta	5,502	24·430	—·010	24·140	24·590	28th	24·392	25th	67·9	56·3	91·5	+0·9	54·9	—3·6	73·2	—1·3	36·6	95·1	2nd & 12th.	45·7	17th
	Chaman	4,311	25·464	—·042	25·426	25·560	28th	25·371	25th	80·0	68·9	96·9	—2·8	68·8	—3·4	82·8	—3·1	28·1	102·0	6th	63·1	16th
	Kalat	6,630	23·626		23·598	23·914	28th	23·543	25th	63·1	51·8	86·6	—2·6	51·4		70·0		37·2	96·9	29th	46·3	17th
	Dalbandin	2,772	26·868		26·831	26·951	28th	26·799	24th	83·3	63·9	100·4							103·3	28th		
	Pasni		29·607		29·557	29·680	28th	29·519	24th	83·0	79·7	92·9		73·8		83·4		19·1	96·8	22nd	70·9	11th
	Panjgur		26·512		26·470	26·585	28th	26·442	1st	80·2	62·7	102·1		72·5		87·3		29·6	107·6	2nd & 12th.	66·4	11th
	Robat		26·668		26·626	26·777	15th	26·565	11th	82·9	64·9	103·5		69·1		86·2		34·4	109·2	12th	62·4	14th
	Seistan		27·878			28·010	15th	27·740	24th	78·5	61·8	97·5		74·1		85·8		23·4	104·2	5th	68·4	24th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·293	—·005	24·269	24·405	28th	24·165	24th	76·1	61·4	87·2	—0·4	63·7	+0·2	75·4	—0·1	23·5	95·2	1st	56·1	25th
	Cherat	*4,256*	25·489	—·020	25·457	25·625	28th	25·386	22nd	78·2	63·5	92·1	—1·7	71·4	—1·8	81·8	—1·7	20·7	100·2	1st	60·6	24th
	Drosh (*c*)		24·877			25·000	28th	24·775	7th	76·3	62·9	99·4	+8·6	69·1	+1·7	84·2	+5·1	30·3	101·9	2nd & 14th.	56·4	26th
	Murree	6,333	23·678	—·055	23·646	23·783	28th	23·587	24th	69·6	58·9	79·7	—2·0	63·4	—0·7	71·5	—1·3	16·3	88·4	1st	49·8	25th

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 9 days.

(*c*) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*continued.*

stations in India, etc., in June, 1918—*continued.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras—*concld.*
0	2	0	1	0	0	4	15	8	N 78° W	S 84° W	7·9	7·7	+0·2	72	− 2	62	0	·643	+·001	6·8	−0·4	1	−2·9	0·25	1·07	−1·72	2·27	3·92	−1·65	0·11	Bellary.
0	2	0	0	0	0	0	13	15	N 62° W	S 89° W	13·2*			86	+23	68	0	·717	−·022	6·6	+0·2	2	−3·8	0·66	2·91	−2·28	4·52	3·90	+0·62	0·45	Kurnool.
1	15	5	0	0	0	0	1	8	N 7° W	N 73° W	4·8	7·0	−2·2	79	+16	57	− 3	·723	−·073	6·6	−0·6	3	+0·3	0·68	1·21	−0·53	4·33	1·79	+2·54	0·18	Nellore.
1	2	0	0	0	0	2	12	13	N 67° W	N 80° W	8·2	6·9	+1·3	82	+19	66†	?	·829†	−·136?	7·2	0	5	−1·2	2·76	4·44	−1·68	6·43	5·62	+0·81	1·01	Masulipatam.
4	0	0	0	0	0	8	17	1	S 79° W	S 69° W	6·8	6·4	+0·4	76	+ 1	79	+ 5	·873	−·023	7·6	+1·1	9	+2·7	7·77	4·65	+3·12	8·63	5·88	+2·75	2·78	Cocanada.
4	0	0	0	1	1	23	1	0	S 43° W	S 73° W	4·4			76	+ 2	78	+ 5	·864	+·001	7·9	+0·1	8	+1·9	2·87	4·91	−2·04	6·14	7·01	−0·87	1·34	Waltair (Vizagapatam).
4	1	0	0	1	1	11	10	2	S 70° W		7·1			67		81		·900		5·1		12	+6·5	5·94	4·37	+1·57	10·07	7·57	+2·50	2·02	Calingapatam.
0	1	2	0	0	12	14	1	0	S 26° W	S 39° W	8·6	11·0	−2·4	69	− 5	84	+ 1	·915	−·046	6·8	+2·3	12	+4·4	5·92	5·94	−0·02	13·32	7·84	+5·48	2·03	Gopalpur.
																															Bay Islands.
0	0	0	0	0	3	25	2	0	S 44° W					93		89		1·003		7·7		11		6·81	6·94	−0·13	9·41	9·27	+0·14	2·25	P. V. Fraser.
8	0	1	0	0	4	6	7	4	S 70° W	S 57° W	3·9	7·6	−3·7	16	−28	87	− 1	·887	−·053	8·4	+0·2	19	−3·2	27·99	19·24	+8·75	56·70	35·08	+21·62	6·24	Port Blair.
0	0	0	0	0	4	21	5	0	S 46° W		16·9			92		86	− 2	·911	−·052	7·5	−1·0	13	−4·0	11·67	15·53	−3·86	31·80	24·27	+7·53	4·30	Table Island.
																															Kashmir.
23	0	0	0	0	2	3	2	0	S 45° W		4·7			20		58		·562		4·3		9		4·15	3·65	+0·50	4·15	6·22	−2·07	1·25	Muzaffarabad.
2	3	1	1	5	2	3	7	6	N 88° W	S 45° E	3·4	2·8	+0·6	27	+19	65	−17	·475	−·073	2·6	−0·3	4	−0·1	1·23	1·52	−0·29	1·26	3·96	−2·70	0·21	Srinagar.
10	1	2	2	5	1	1	5	3	N 52° W		3·8			3		74	− 3	·413	+·021	3·1	+0·4	9	−0·8	4·25	3·47	+0·78	4·49‡	3·47§	+1·02	1·04	Gulmarg.
25	0	0	0	4	1	0	0	0	S 37° E		6·6			17		49	−11	·243	−·035	3·1	+0·1	0	−2·4	0	0·64	−0·64	0·05	3·37	−3·32	0	Dras.
17	0	0	0	2	8	2	1	0	S 5° W	S 72° W	3·2	1·9	+1·3	37	−10	42	+ 1	·198	+·027	3·9	0	0	−0·6	0·04	0·19	−0·15	0·04	0·39	−0·35	0·03	Leh.
18	0	1	1	0	2	4	4	0	S 51° W		5·4			23		38	−11	·265	−·027	2·7	−0·6	0	−0·9	0·05	0·28	−0·23	0·06	1·48	−1·42	0·05	Skardu.
29	0	0	0	0	0	1	0	0	S 45° W		0·2			3		65	+25	·653	+·203	3·1	+0·1	1	−0·3	0·22	0·37	−0·15	0·22	1·17	−0·95	0·11	Gilgit.
																															Baluchistan.
20	1	0	0	0	3	6	0	0	S 34° W		4·0			23		28		·311		1.4		1		0·32	0·76	−0·44	0·34	1·16	−0·82	0·31	Fort Sandeman.
30	0	0	0	0	0	0	0	0	Calm.	S 8° W	1·7	2·2	−0·5	(a)		47	+ 1	·327	−·088	0	−0·6	0	−0·5	0	0·17	−0·17	0	0·52	−0·52	0	Quetta.
3	0	1	1	6	13	6	0	0	S 5° E	S 53° W	5·1	6·6	−1·5	69	+21	58	+24	·596	+·195	10·1	−0·3	0	−0·1	0	0·03	−0·03	0	0·12	−0·12	0	Chaman.
30	0	0	0	0	0	0	0	0	Calm.	S 32° W	4·0			(a)		46	+12	·269	−·045	0		0	−0·6	0	0·27	−0·27	0·09	0·49	−0·40	0	Kalat.
0	0	3	3	3	5	10	6	0	S 26° W		4·8			46		31		·356		0		0		0	0·04	−0·04	0	0·06	−0·06	0	Dalbandin.
3	0	2	3	1	1	9	11	0	S 62° W		8·5			43		86		·965		6·9		0		0	1·46	−1·46	0	1·46	−1·46	0	Pasni.
13	4	3	3	0	2	3	0	2	N 26° E		4·3			13		36		·365		0·3		0		0			0·35			0	Panjgur.
22	0	2	2	0	0	2	2	0	Calm.		4·0			(a)		27		·299		0		0		0	0·01	−0·01	0	0·04	−0·04	0	Robat.
1	0	0	0	0	0	0	0	29	N 45° W		12·0			92		36		·345		0·1		0		0			0			0	Seistan.
																															Hill stations, exclusive Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm.		1·1			(a)		42	+ 3	·380	+·033	1·8	−1·5	8	+3·2	3·41	2·20	+1·21	3·81	4·65	−0·84	1·14	Parachinar.
16	5	1	1	3	1	0	0	3	N 21° E	S 79° E	4·6	7·2	−2·6	20	+15	45	+ 3	·423	+·010	0·4	−1·7	5	+3·1	3·41	1·23	+2·18	3·97	2·81	+1·16	1·70	Cherat.
28	0	1	0	0	1	0	0	0	S 67° E		3·4			2		46	− 4	·407	−·018	1·4	−0·1	4	+2·1	1·25	0·62	+0·63	1·48	2·72	−1·24	0·74	Drosh.
16	3	0	0	9	2	0	0	0	S 50° E	S 63° E	3·8	5·3	−1·5	27	+16	54	+ 5	·389	+·024	2·5	−0·3	7	+1·5	6·06	3·68	+2·38	6·12	6·55	−0·43	2·86	Murree

† hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 27 days.
† ,, 9 ,,
‡ Since 11th May 1918.
§ ,, 1st June.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
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 —concld.																					
	Simla	7,232	22·995	—·038	22·957	23·077	28th	22·945	3rd	63·4	58·5	69·8	—4·4	59·4	—1·4	64·6	—2·9	10·4	76·1	2nd	53·5	26th
	Chakrata	7,072	23·222	?	23·182	23·306	28th	23·148	24th	63·7	60·0	72·6	—1·7	59·7	—0·5	66·2	—1·1	12·9	86·3	1st	55·9	26th
	Mukteswar	7,592	22·719	—·034	22·678	22·792	28th	22·656	23rd	60·2	58·0	70·0	—5·1	55·5	—2·5	62·8	—3·8	14·5	79·9	1st	51·7	15h
	Darjiling	7,432	22·837	—·022	22·792	22·905	28th	22·756	23rd	59·8	59.1	66·0	+0·5	56·8	+0·6	61·4	+0·5	9·2	70·5	12th	54·6	27th
	Shillong	4,920	24·983	—·012	24·935	25·054	15th	24·894	23rd	67·2	64·5	73·0	—1·4	63·0	—0·2	68·0	—0·8	10·0	76·0	28th & 29th.	60·8	27th
	Cherrapunji	4,309	25·539	—·006	25·490	25·622	16th	25·436	23rd	65·0	64·8	68·4	—3·8	62·9	—1·1	65·6	—2·5	5·5	72·8	28th	59·8	4th
	Netarhat		26·040		25·989	26.067	22nd	25·940	1st	70·5	67·7	79·4		61·9		70·7		17·5	89·5	1st	59·0	18th & 25th.
	Maymyo	3,546	26·308	—·002	26·253	26·359	15th	26·251	30th	69·3	67·0	76·2	—2·2	65·8	—0·1	71·0	—1·1	10·4	80·0	30th	63·4	20th
	Pachmarhi	3,528	26·255	—·013	26·202	26·338	5th	26·162	30th	72·4	67·3	84·4	—3·0	69·8	—2·5	77·1	—2·7	14·6	92·5	11th	67·1	18th, 19th & 22nd.
	Mount Abu	3,945	25·868	+·005	25·818	25·925	12th	25·813	25th	68·9	65·9	81·2	—2·4	65·8	—2·7	73·5	—2·5	15·4	85·2	20th	63·4	9th
	Mercara	3,781	26·174	+·011	26·107	26·257	4th	26·107	29th	64·8	64·1	71·9	—0·9	61·5	—1·9	66·6	—1·4	10·4	75·4	11th	58·8	6th
	Ootacamund	*7,327*	23·016	+·011	22·952	23·090	4th	22·946	29th	53·1	53·7	66·0	+1·8	50·8	—1·4	58·4	+0·2	15·2	70·0	2nd	44·7	6th
	Kodaikanal	7,688	22·791	+·007	22·726	22 858	5th	22·719	29th	58·4	52·8	66·3	+1·2	51·7	—2·0	59·0	—0·4	14·6	69·8	21st	47·3	7th
	Extra India.																					
	Singapore (a)	10	29·834	—·081	29·765	29·881	16th	29·771	30th	82·8		87·1	—1·1	73·9	—0·9	80·5	—1·0	13·2	90·0	7th	71·0	24th
	Penang (a)	17	29·818	—·082	29·760	29·992	1st	29·739	2nd	82·1		88·2	—1·8	71·5	—2·6	79·9	—2·2	16·7	92·0	18th	69·0	26th
	Trincomalee	99	29·735	+·015	29·762	29·809	3rd	29·675	29th	80·4	74·5	91·6	+3·0?	78·0	—0·5	86·3	+1·3?	16·6	96·6	23rd	76·0	4th
	Colombo	24	29·883	+·010	29·833	29·945	3rd	29·824	29th	79·6	76·0	85·8	—0·3	77·9	+0·4	81·9	+0·1	7·9	87·1	8th	73·1	17th
	Hambantota	64	29·830		28·820	29·922	17th	29·779	30th	77·9	75·8	87·4		76·5		81·8		10·9	99·5	8th	72·2	17th
	Minicoy	7	29·922	+·032		29·985	5th	29·867	29th													
	Amini Divi	*13*	29·872	+·029	29·813	29·962	5th	29·806	29th	82·9	77·9	87·0	0	77·8	—0·3	82·4	—0·1	9·2	90·2	9th	72·7	17th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·324	—·023	24·279	24·439	12th	24·242	4th	64·9	63·1	71·3	—2·6	60·6	+5·7	66·0	+1·5	10·7	76·9	18th	59·0	3rd
	Gartok (c)	15,100																				
	Kashgar (c)	4,255	25·362	—·108		25·598	28th	25·130	26th	75·8	65·6	91·4	+5·6	66·0	+2·2	80·2	+3·9	28·4	102·3	13th	57·0	5th
	Kabul (c)	...	23·951	—·215		24·040	28th	23·850	23rd & 25th.	61·3	54·3	86·5	—2·3	57·7	+0·5	72·1	—0·9	28·8	99·4	10th	51·0	25th
	Meshed	3,104																				
	Jask	13	29·560	—·008	29·526	29·620	7th	29·496	11th	84·7	77·2	95·8	—0·1	80·7	—2·6	88·3	—1·3	15·1	100·0	22nd & 23rd.	75·0	25th
	Muscat	20	29·570	+·009	29·538	29·647	28th	29·514	1st	93·4	80·1	100·9	+5·0	88·1	—0·4	94·5	+2·3	12·8	109·6	12th	84·2	20th
	Bushire	14	29·699	+·020	29·575	29·692	4th	29·490	26th	83·4	74·4	88·1	—3·7	78·3	—2·3	83·2	—3·0	9·8	96·3	22nd	70·1	8th
	Basrah	25	29·635	—·013	29·629	29·766	4th	29·521	26th	86·0	70·1	106·6	+0·9	75·6	—5·2	88·1	—2·1	25·0	110·0	21st & 22nd.	68·8	5th
	Ispahan (c)	*5,817*	21·239	—·051		24·380	28th	24·130	5th & 25th.	71·8	57·8	90·2	—3·6	61·9	—0·3	76·1	—1·9	28·3	94·4	5 days	54·2	6th
	Tehran (c)	*4,002*	25·654	—·089		25·780	28th	25·520	10th	74·6	62·8	90·9	—3·4	65·0	—1·3	78·0	—2·3	25·9	97·5	4th	56·6	13th
	Baghdad	127	29·557			29·709	12th	29·390	22nd	78·8	60·6	101·9	—2·6	75·5	—0·6	88·7	—1·6	26·4	113·6	30th	68·3	12th
	Aden	94	29·699	+·007	29·694	29·734	9th	29·595	25th	87·4	81·4	94·9	+0·1	84·0	0	85·4	+0·1	10·9	96·8	25th	80·4	16th
	Zanzibar	72	30·074	+·003	30·073	30·110	17th	30·048	20th & 21st	75·5	72·4	81·2	—0·5	73·9	—0·2	77·5	—0·3	7·3	83·5	2nd	70·6	11th

N B.—Elevations in italics indicate barometrical determinations.

(a) 9 hrs. observations.
(c) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*concluded.*

stations in India, etc., in June, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	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	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																76	+15	·441	+·063	6·5	+2·4	13	+3·5	10·72	6·72	+4·00	11·87	9·42	+2·45	2·50	Simla.
2	1	2	1	0	0	19	2	3	S 60° W	S 8° W	7·9	5·4	+2·5	56	+47	82	+15	·478	+·061	7·0	+3·1	13	+2·8	7·71	7·95	−0·24	9·17	10·47	− 1·30	2·10	Chakrata.
3	0	0	0	0	0	0	26	1	N 89° W		7·0			89		89	+26	·458	+·056	7·3	+2·7	17	+7·7	7·34	6·25	+1·09	8·47	8·41	+ 0·06	1·86	Mukteswar.
19	2	2	1	1	1	0	1	3	N	S 76° E	1·7	3·7	−2·0	13	− 2	97	+ 3	·495	0	10·0	+1·4	24	+3·4	31·72	24·00	+7·72	41·78	32·90	+ 8·88	9·65	Darjiling.
22	0	0	2	0	3	3	0	0	S 1° W		3·8			17		87	+ 4	·577	+·065	9·3	+1·3	20	+0·6	20·55	17·00	+3·55	32·50	28·12	+ 4·38	4·13	Shillong.
0	1	3	4	7	10	2	2	1	S 29° E		8·4			49		99	+ 5	·613	−·009	10·0	+1·2	30	+4·3	169·91	94·23	+75·68	220·43	137·72	+82·71	24·71	Cherrapunji.
0	0	1	1	4	1	2	13	8	N 86° W		3·9			50		87		·647		7·6		23		20·53			23·15			1·81	Netarhat.
11	0	0	0	0	0	2	17	0	S 41° W		2·2			59		89	+ 3	·634	−·031	7·4	+0·3	7	−6·5	2·96	9·46	−6·50	17·28	19·62	− 2·34	0·96	Maymyo.
1	0	0	0	0	0	0	5	19	5	W	S 81° W	8·2	6·7	+1·5	87	+20	78	+ 9	·610	−·003	7·8	+2·1	13	+2·5	6·26	9·28	−3·02	6·33	9·80	− 3·47	1·46	Pachmarhi.
0	0	0	0	0	0	3	6	1	0	S 42° W	S 59° W	8·2	8·3	−0·1	92	+25	86	+14	·607	+·039	6·6	+1·3	3	−3·2	2·33	5·28	−2·95	2·85	5·96	− 3·11	1·77	Mount Abu.
0	0	0	0	0	0	1	10	15	4	S 78° W	N 88° W	3·6	5·7	−2·1	82	+ 8	96	+ 2	·585	−·021	9·1	+0·3	23	−0·7	17·56	25·87	−8·31	31·64	31·45	+ 0·19	1·80	Mercara.
5	0	0	0	0	0	3	12	10	N 77° W		3·9			69		76	− 2	·367	−·010	7·2	−0·3	5	−8·1	1·51	7·07	−5·56	10·52	14·03	− 3·51	0·34	Ootacamund.
0	1	0	1	2	0	4	16	6	N 87° W		8·0			69		70	− 5	·342	−·025	3·9	−2·5	10	0	5·90	4·02	+1·88	10·96	10·03	+ 0·93	1·17	Kodaikanal.
																															Extra India.
7	0	1	1	6	1	11	2	1	S 21° W					40						7·5	+2·1	12	+3·0	13·56	7·15	+6·41	21·17	13·29	+ 7·88	2·87	Singapore.
0	1	9	0	13	1	0	0	6	N 83° E					37								10	+0·1	8·70	7·50	+1·20	12·13	17·04	− 4·21	2·20	Penang.
0	0	0	0	0	1	18	11	0	S 60° W	S 47° W	7·8	12·2	−4·4	89	− 5	75	− 5	·777	−·104	4·9	+1·7	2	+0·1	0·90	1·36	−0·46	2·15	3·69	− 1·54	0·75	Trincomalee.
3	0	0	0	0	0	19	8	0	S 58° W	S 62° W	4·2	7·7	−3·5	79	− 7	81	0	·849	−·051	7·8	+0·5	9	−4·0	4·94	7·92	−2·98	18·02	18·84	− 0·82	2·45	Colombo.
0	0	0	0	0	0	9	21	0	S 77° W		12·3*			92		90		·859		4·6		2		1·98	2·38	−0·40	6·07	5·59	+ 0·48	1·40	Hambantota.
0	0	0	0	0	0	6	20	4	S 88° W	S 81° W	7·6	11·8	−4·2	90	+ 2					4·6	−2·3	11	−6·1	5·12	11·06	−6·94	24·52	16·84	+ 7·68	0·83	Minicoy.
0	0	0	0	0	0	9	16	5	S 83° W		11·9			87		79	− 4	·887	−·045	6·0	−1·9	14	−1·7	6·46	13·97	−7·51	25·32	16·93	+ 8·39	1·43	Amini Divi.
																									0·99			1·44			Gyantse.
																									4·29			6·34			Pharijong.
30	0	0	0	0	0	0	0	0	Calm		0·3			(a)		91	+ 1	·564	0	5·7	−0·4	24	+1·2	23·94	20·65	+3·29	34·00	39·76	− 5·76	2·37	Gangtok.
																									0·10			0·10			Gartok.
18	0	8	0	0	0	0	1	3	N 21° E	N 28° W	1·3	3·5	−2·2	27	+10	58	+16	·521	+·160	2·9	+0·6	0	−0·9	0	0·28	−0·28	0	0·98	− 0·98	0	Kashgar.
0	1	2	0	1	0	9	13	4	S 84° W	N 23° E				67	+61	65	+21	·351	−·033	7·7	+7·3	0	−0·7	0	0·21	−0·21	0·47	0·99	− 0·52	0	Kabul.
																									0·31			1·59			Meshed.
3	1	1	6	1	1	1	7	9	N 49° W	S 48° E	9·1	9·6	−0·5	30	+10	71	0	·836	−·128	1·0	0	0	−0·1	0	0·07	−0·07	0	0·07	− 0·07	0	Jask.
4	2	1	5	2	0	0	7	9	N 39° W	N 27° E	3·1	3·4	−0·3	33	+14	56	− 8	·851	−·079	2·1	+0·3	0	−0·2	0	0·14	−0·14	0	0·14	− 0·14	0	Muscat.
9	2	2	0	0	3	0	4	10	N 52° W	N 37° W	6·6†	7·8	−1·2	40	−16	64	− 2	·731	−·091	0·1	0	0	0	0	0	0	0·05	0·02	+ 0·03	0	Bushire.
1	0	1	0	0	1	2	22	3	N 89° W		8·3			84		43		·526		0		0	0	0	0	0	0	0·33	− 0·33	0	Busrah.
27	0	0	0	0	0	1	2	0	S 72° W	N 50° W	1·3	2·8	−1·5	10	−34	43	− 9	·340	−·138	0·4	+0·2	0	0	0	0·03	−0·03	0·16	0·26	− 0·10	0	Ispahan.
23	0	0	1	1	1	4	0	0	S 11° W	S 7° W	4·2	2·2	+2·0	17	0	51	+ 9	·438	+·035	2·1	+1·3	1	+0·7	0·21	0·09	+0·12	0·43	0·57	− 0·14	0·21	Tehran.
										N 9° W	10·7	3·6	+7·1			29		·280		2·0		0	0	0	0	0	0·18	0·21	− 0·03	0	Baghdad.
13	3	3	0	4	4	2	0	0	S 60° E	S 34° E	5·8	6·8	−1·0	13	−13	76	+ 5	·987	+·038	1·9	−1·3	0	−0·1	0	0·06	−0·06	0	0·18	− 0·18	0	Aden.
0	0	0	0	1	15	13	1	0	S 20° W	S 13° W	6·0	6·4	−0·4	90	+ 3	85	+ 1	·750	+·006	6·7	+1·4	10	+6·6	6·27	1·78	+4·49	15·93	12·75	+ 3·18	1·55	Zanzibar.

of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 25 days.
† „ „ 7 „

(a) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 63 fourth and fifth class stations in India, etc., in June, 1918.

Table

Abstract of observations taken at 8 hrs. at 63 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
1	Bishnath	79·8	76·7	89·1*	−0·2	75·5	+4·2	82·3*	+2·0	13·6	95·1	11th	71·9	13th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·0	78·0	89·3	−0·1	75·2	+0·5	82·3	+0·2	14·1	95·0	12th	71·1	13th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	78·9	77·7	88·8	−0·4	73·6	−0·5	81·2	−0·5	15·2	96·6	12th	70·1	6th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	76·9	74·7	88·3	−1·2	73·4	−0·5	80·9	−0·9	14·9	97·3	12th	69·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	77·3	75·3	86·8	−2·2	73·8	−1·2	80·3	−1·7	13·0	96·4	11th	69·0	7th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	78·2	76·8	87·0	−0·9	73·0	...	80·0	...	14·0	92·9	12th	70·1	1st, 8th & 13th.	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	79·4	76·9	87·5	−2·0	72·0	−2·9	79·7	−2·5	15·5	92·0	12th & 28th.	68·8	6th, 7th & 8th.	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	78·8	76·2	88·0	−1·7	74·5	−1·1	81·3	−1·4	13·5	96·1	13th	70·6	8th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	80·5	76·6	88·7	...	74·6	...	81·6	...	14·1	94·9	12th	70·0	4th	...	...	...	...	...	...	...	...	...	...	...
	Messa	82·5	76·7	92·7	+0·6	73·0	−1·3	82·9	−0·3	19·7	97·9	11th	67·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	76·6	74·7	87·6	+0·2	72·4	−1·3	80·0	−0·5	15·2	92·9	12th	68·6	13th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	79·5	76·7	85·4	−3·6	73·9	−2·0	79·7	−2·8	11·5	88·8	27th	69·9	2nd, 5th & 8th.	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	82·1	79·2	86·8	−3·1	75·7	−0·9	81·3	−2·0	11·1	92·9	6th	72·7	6th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	81·2	78·4	88·5	−4·3	76·3	+3·4	82·4	−0·7	12·2	92·9	6th	73·9	15th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	78·4	76·2	89·3	−1·4	71·1	−2·4	80·2	−1·9	18·2	95·1	17th	61·6	19th & 20th.	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	78·8	76·3	87·0	−1·4	73·1	−0·7	80·1	−1·1	13·9	91·1	11th & 12th.	70·0	3rd & 5th.	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·6	76·3	86·4	−1·4	73·4	−0·7	79·9	−1·1	13·0	90·1	11th	71·0	6th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.

C.

and fifth class stations in India, etc., in June, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	87	— 6	·878	—·040	...	...	18	+0·7	19·18	14·39	+ 4·79	37·44	24·22	+13·22	2·50	Bishnath.
...	...	...	...	...	91	— 1	·933	0	...	...	20	+1·8	22·47	14·10	+ 8·37	30·35	23 82	+ 6·53	3·85	Borjuli.
...	...	...	...	...	94	+ 5	·932	+·034	...	...	21	−2·4	19·34	25·25	− 5·91	34·32	42·10	− 7·78	2·80	Chandkhira.
...	...	...	...	...	90	— 4	·830	—·080	...	...	21	+3·5	19·37	16·68	+ 2·69	31·67	25·46	+ 6·21	3 50	Doom Dooma.
...	...	...	...	...	91	+ 1	·853	—·026	...	...	23	+2·7	21·08	16·18	+ 4·90	28·14	27·04	+ 1·10	2·82	Dikom.
...	...	...	...	...	94	+ 5	·905	—·012	...	...	19	+3·2	16·02	9·65	+ 6·37	23·83	18·65	+ 5·18	2·75	Golaghat.
...	...	...	...	...	89	— 1	·892	+·014	...	...	24	+1·0	22·74	23·59	− 0·85	42·79	40·28	+ 2·21	3·00	Hailakandi.
...	...	...	...	..	89	+ 3	·870	—·030	...	...	21	+4·0	17·26	10·43	+ 6·83	29·37	21·37	+ 8·00	3·71	Jorehat.
...	...	...	...	...	83	...	·859	...	...	...	13	+1·0	10·04	9·53	+ 0·51	18·21	15·08	+ 3·13	2·30	Lumding.
...	...	...	...	...	76	— 6	·841	—·057	...	...	20	+2·7	16·22	12·42	+3·80	29·77	20·91	+ 8·86	3·15	Messa.
...	...	...	...	...	91	— 2	·834	—·004	...	...	17	+1·5	34·34	13·50	+20·84	45·20	24·59	+20·61	9·39	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	21	+3·5	26·86	17·81	+ 9·05	40·16	30·37	+ 9·79	4·77	Comilla.
...	...	...	...	...	87	0	·876	—·065	...	...	20	+4·2	25·02	17·18	+ 7·84	34·89	31·90	+ 2·99	6·48	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	25	+10·3	19·40	13·43	+ 5·97	34·30	22·56	+11·74	3·72	Faridpur.
...	...	...	...	...	88	+ 3	·958	—·021	...	...	22	+7·3	15·43	13·52	+ 1·91	26·24	22·02	+ 4·22	2·15	Goalundo.
...	...	...	...	...	88	+ 3	·935	—·033	...	...	18	+3·3	14·49	11·81	+ 2·68	23·23	19·46	+ 3·77	2·54	Pabna.
...	...	...	...	...	...	...	...	...	...	...	21	+6·7	18·13	12·56	+ 5·57	25·44	20·97	+ 4·47	3·45	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	14	+1·4	16 83	10·78	+ 6·10	27·70	16·51	+11·19	3·77	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	16	+4·8	22·09	9·83	+12·26	32·75	14·36	+18·39	3·89	Malda.
...	...	...	...	...	...	...	...	...	...	...	23	+7·2	36·74	17·07	+19·67	47·14	28·54	+18·60	8·81	Rangpur.
...	...	...	...	...	91	— 3	·872	—·039	...	...	25	+3·7	35·36	27·72	+ 7·64	54·08	43·23	+10·85	6·54	Dam Dim.
...	...	...	...	...	87	0	·870	—·027	...	...	26	+6·2	43·29	25·27	+18·02	68·85	40·19	+28·66	5·42	Kalchini.
...	...	...	...	...	82	— 7	·848	—·024	...	...	26	+4·2	33·59	27·98	+ 5·61	50·47	42·58	+ 7·89	4·90	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	21	+2·1	35·74	31·15	+ 4·59	51·57	47·37	+ 4·20	5·45	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	17	+4·6	16·24	10·59	+ 5·65	27·56	17·73	+ 9·83	2·92	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	18	+6·3	14·47	10·67	+ 3·80	18·78	15·13	+ 3·65	4·20	Bankura.
...	...	...	...	...	...	...	...	...	...	...	22	+10·4	13·72	9·65	+ 4·07	16·02	13·72	+ 2·30	2·62	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	19	+8·3	9·98	8·89	+ 1·09	13·35	11·10	+ 2·25	2·21	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	15	+5·0	7·89	8·36	− 0·47	10·15	11·60	— 1·45	1·23	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	14	+6·0	9·31	8·24	+ 1·07	12·24	10·74	+ 1·50	1·53	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	13	+3·1	11·04	9·09	+ 1·95	20·23	11·96	+ 8·27	2·77	Motihari.
...	...	...	...	...	...	...	...	...	...	...	13	+5·7	9·62	6·28	+ 3·34	13·71	7·81	+ 5·90	1·99	Chapra.
...	...	...	...	...	...	...	...	...	...	...	15	+7·4	7·58	6·50	+ 1·08	8·82	7·98	+ 0·84	1·70	Arrah.
...	...	..	...	...	...	...	...	...	...	...	9	+1·9	5·16	6·01	− 0·85	6·25	6·78	− 0·53	1·25	Dehri.

Table

Abstract of observations taken at 8 hrs. at 63 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	78·0	70·0	89·5	...	73·5	...	81·5	...	16·0	99·3	11th	68·1	13th	7	0	0	0	0	0	0	12	11	N 68° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	80·5	77·5	96·0	...	75·4	...	85·7	...	20·6	99·0	12th	71·0	28th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	85·8	78·7	99·5	...	79·8	...	89·7	...	19·7	106·7	12th	74·2	30th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	71·7	68·4	78·7	...	68·0	...	73·3	...	10·7	86·8	10th	65·3	28th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	89·7	77·0	101·8	...	82·4	...	92·1	...	19·4	107·9	2nd	70·3	25th	0	8	8	3	8	3	0	0	0	N 70° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	68·6	53·2	85·1	...	48·8	...	67·0	...	36·3	92·0	13th	41·5	27th	5	20	1	0	0	0	0	0	4	N 5° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	77·0	74·2	84·7	−2·4	72·3	−1·0	78·5	−1·7	12·4	89·5	11th	70·2	4th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	67·8	67·4	74·2	+0·8	62·9	−1·1	68·5	−0·1	11·3	78·4	14th	60·6	3rd	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	78·3	+3·5	57·3	+3·6	67·7	+3·5	21·0	85·0	7th	52·2	4th	...	...	...	...	...	...	...	...	...	...	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Sakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	92·1	−4·2	53·7	−4·0	72·9	−4·1	38·4	96·6	14th	47·1	17th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in June, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	2	− 1·9	0·60	3·13	− 2·53	0·60	3·72	− 3·12	0·19	Meerut.
...	...	...	...	...	...	...	...	...	...	...	14	+ 4·8	8·93	8·64	+ 0·29	10·75	10·06	+ 0·69	1·88	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	3	− 0·4	2·72	3·02	− 0·30	2·84	3·75	− 0·91	1·26	Udaipur.
																				XII.—Central Provinces.
4·1	...	...	70	...	67	...	·635	...	6·3	...	10	...	11·58	6·22	+ 5·36	12·94	6·68	+ 6·26	2·73	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	7	− 1·2	2·70	6·05	− 3·35	7·21	6·55	+ 0·66	0·84	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·3	0	0·62	− 0·62	2·51	2·04	+ 0·47	0	Tinnevelly.
...	...	...	...	...	86	...	·904	...	7·6	...	2	− 1·5	1·03	1·73	− 0·70	3·64	3·95	− 0·31	0·49	Anantapur.
...	...	...	...	...	73	...	·887	...	3·0	...	4	− 2·8	1·86	4·65	− 2·79	5·30	6·14	− 0·84	0·56	Guntur.
...	...	...	...	...	85	...	·655	...	...	...	16	...	16·99	...	...	22·37	...	...	3·62	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	14	− 2·3	12·06	12·96	− 0·90	31·14	26·04	+5 ·10	3·95	Car Nicobar.
																				Kashmir.
...	...	...	50	...	56	...	·777	...	2·2	...	3	− 0·6	1·14	2·94	− 1·80	1·38	3·49	− 2·11	0·49	Jammu.
...	...	...	...	...	...	...	...	...	...	...	6	− 2·8	1·45	2·76	− 1·31	1·96	7·82	− 5·86	0·42	Sonamarg.
...	...	...	77	...	35	...	·248	...	3·1	...	0	− 0·9	0	0·15	− 0·15	0	1·24	− 1·24	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·7	0	1·03	− 1·03	0	1·22	− 1·22	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	87	+ 2	·809	−·028	...	...	26	+ 4·5	37·71	25·82	+ 11·89	53·62	37·25	+ 16·37	7·32	Panighatta.
...	...	...	...	...	97	+ 7	·664	+·054	...	...	26	+ 2·5	45·27	31·73	+ 13·54	64·47	43·26	+ 21·21	16·98	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	29	...	42·31	25·34	+ 16·97	64·30	44·32	+ 19·98	3·20	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	27	...	12·29	9·03	+ 3·26	16·66	14·87	+ 1·79	1·12	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	29·02	...	...	48·11	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	11	...	12·50	...	...	13·33	...	...	2·60	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	14	+ 4·0	8·23	9·38	− 1·15	9·55	11·69	− 2·14	1·78	Mussooree.
...	...	...	...	...	...	...	...	...	5·3	+1·5	0	− 0·5	0·10	0·23	− 0·13	0·17	1·14	− 0·97	0·07	Poo.
...	...	...	...	...	...	...	...	...	...	...	1	− 1·8	0·28	1·08	− 0·80	0·32	3·51	− 3·19	0·20	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	0	...	0	− 0·2	0	0·04	− 0·04	0	0·20	− 0 20	0	Pishin.

Table

Abstract of observations taken at 8 hrs. at 63 fourth and

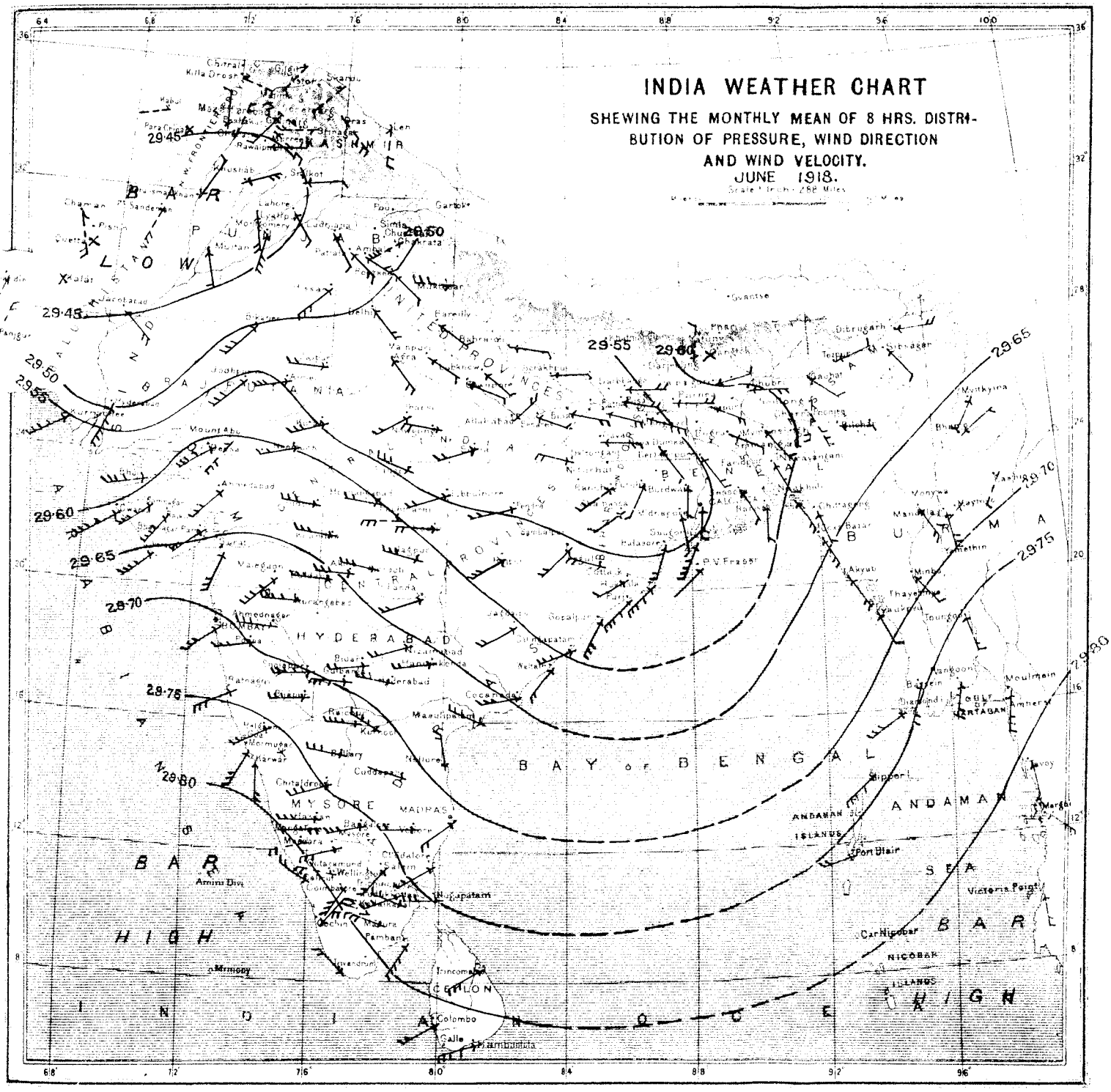
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed month.	Date.	Lowest temperature observed month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	55·0	53·1	63·5	...	48·5	...	56·0	...	15·0	68·8	22nd	44·2	11, 17 & 27th.	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	90·6	71·4	106·7	...	77·0	...	91·9	...	29·7	115·0	30th	68·0	12th	0	23	0	0	0	1	4	0	2	N 12° W	...
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	83·2	72·1	96·8	...	76·9	...	86·9	...	19·9	105·0	22nd	71·6	13th	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah	85·5	65·4	103·3	...	74·2	...	86·7	...	29·1	111·0	30th	61·5	4th	...	...	...	...	...	...	...	...	...	...	...
	Shahroban	87·0	67·8	95·9	...	75·1	...	85·5	...	20·8	114·5	30th	58·5	4th	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

fifth class stations in India, etc., in June, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th June 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	89	...	·387	...	3·8	...	10	...	8·17	6·08	+2·09	10·92	10·32	+0·60	2·55	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	10	+2·4	5·06	4·88	+0·18	12·79	22·14	−9·35	1·07	Pemba.
...	...	...	72	...	41	...	·502	...	...	...	0	...	0	...	...	0·06	...	...	0	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amarah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
4·7	...	...	...	...	57	...	·635	...	0	...	0	...	0	...	...	0	...	...	0	Kurna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mohammerah.
...	...	...	...	...	29	...	·360	...	0	...	0	...	0	...	...	0·22	...	...	0	Nasiriyah.
...	...	...	...	...	33	...	·428	...	0·4	...	0	...	0	...	...	0·36	...	...	0	Shahroban.

SGPI-21-40DGO-20-12-21-325.



The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one	feather	added to the wind arrow.						
,, ,,	2 to 5	,, ,, ,,	...	two	feathers	,,	,,	,,	,,			
,, ,,	5 to 10	,, ,, ,,	...	three	,,	,,	,,	,,	,,			
,, ,,	10 to 20	,, ,, ,,	...	four	,,	,,	,,	,,	,,			
	over 20	,, ,, ,,	...	five	,,	,,	,,	,,	,,			

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

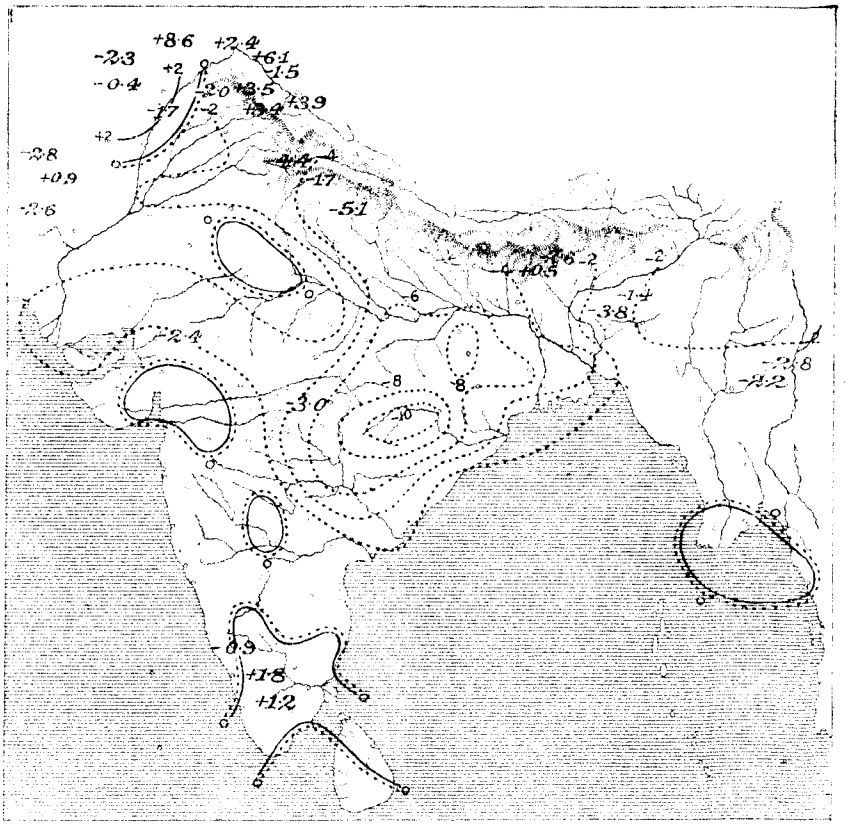


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

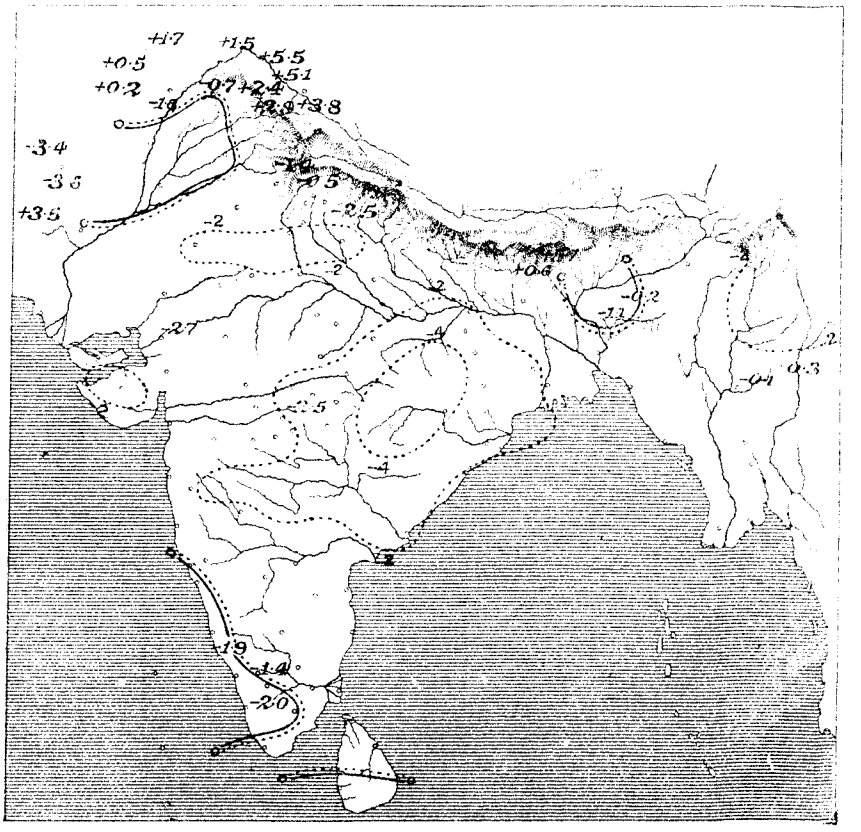


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

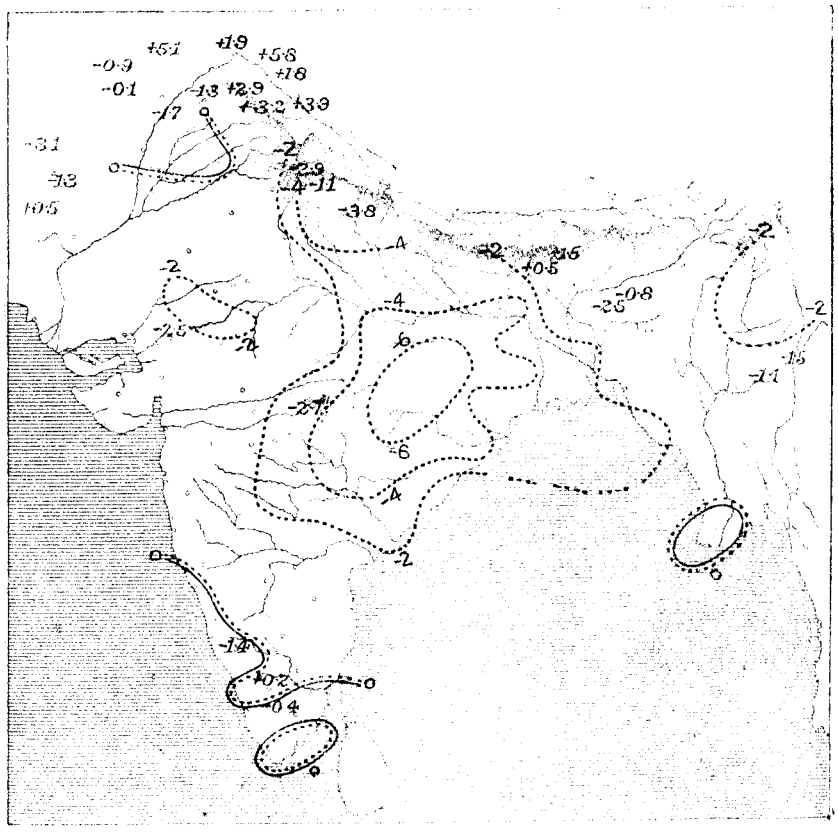


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

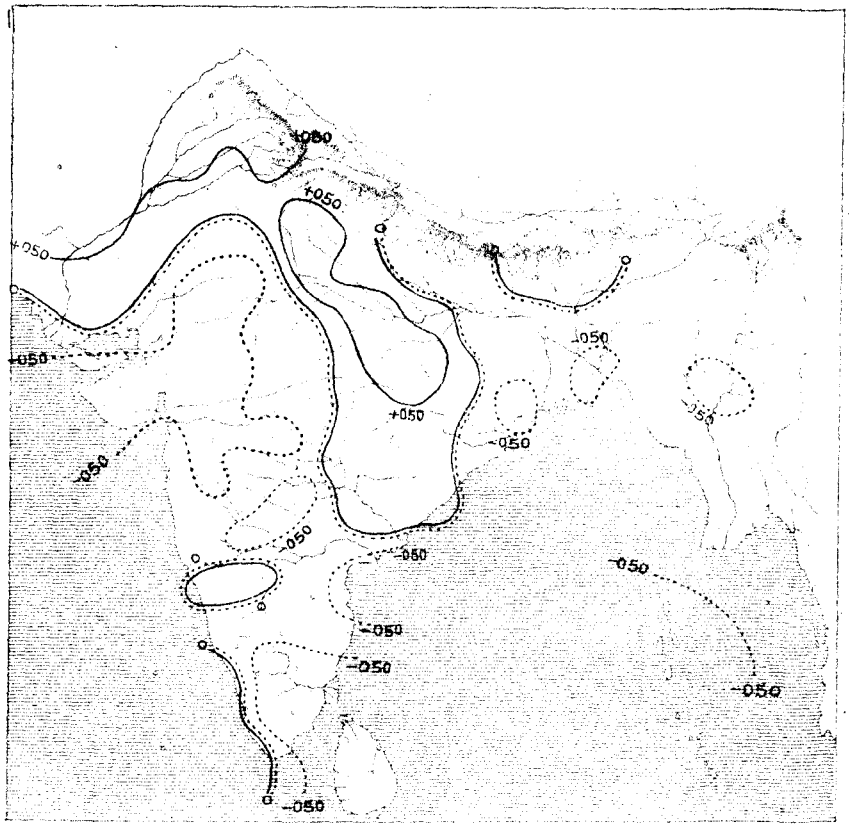


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

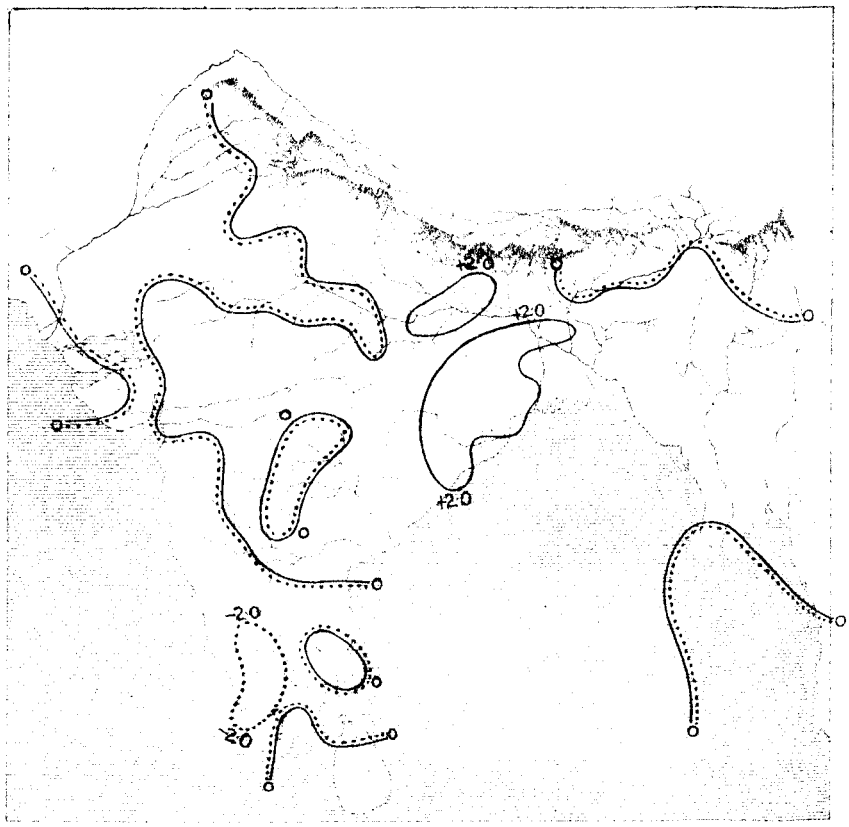
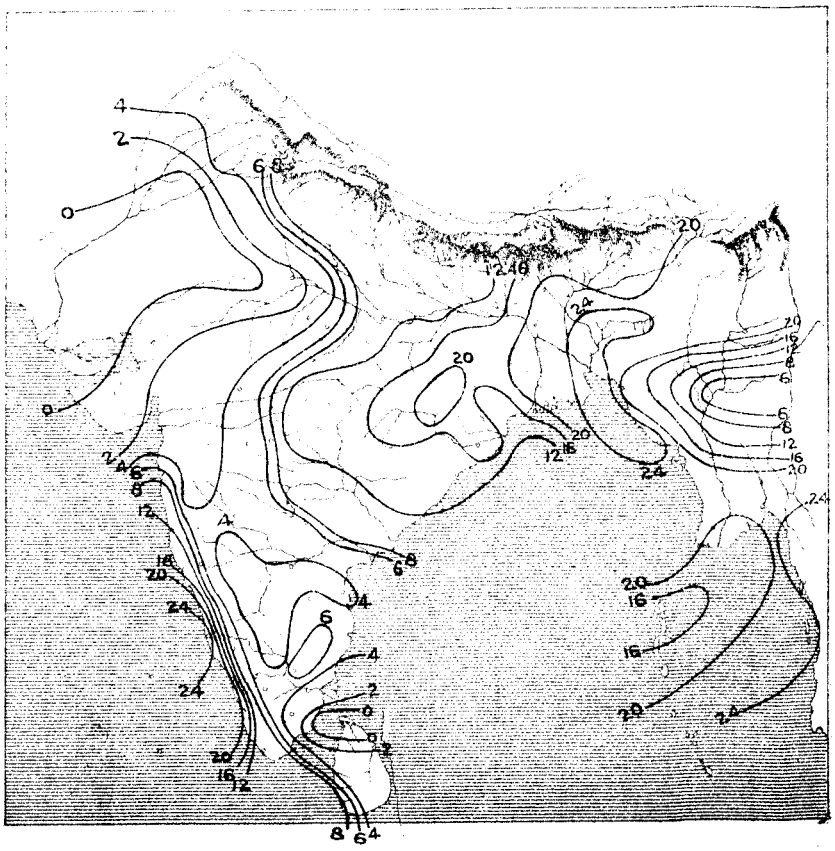
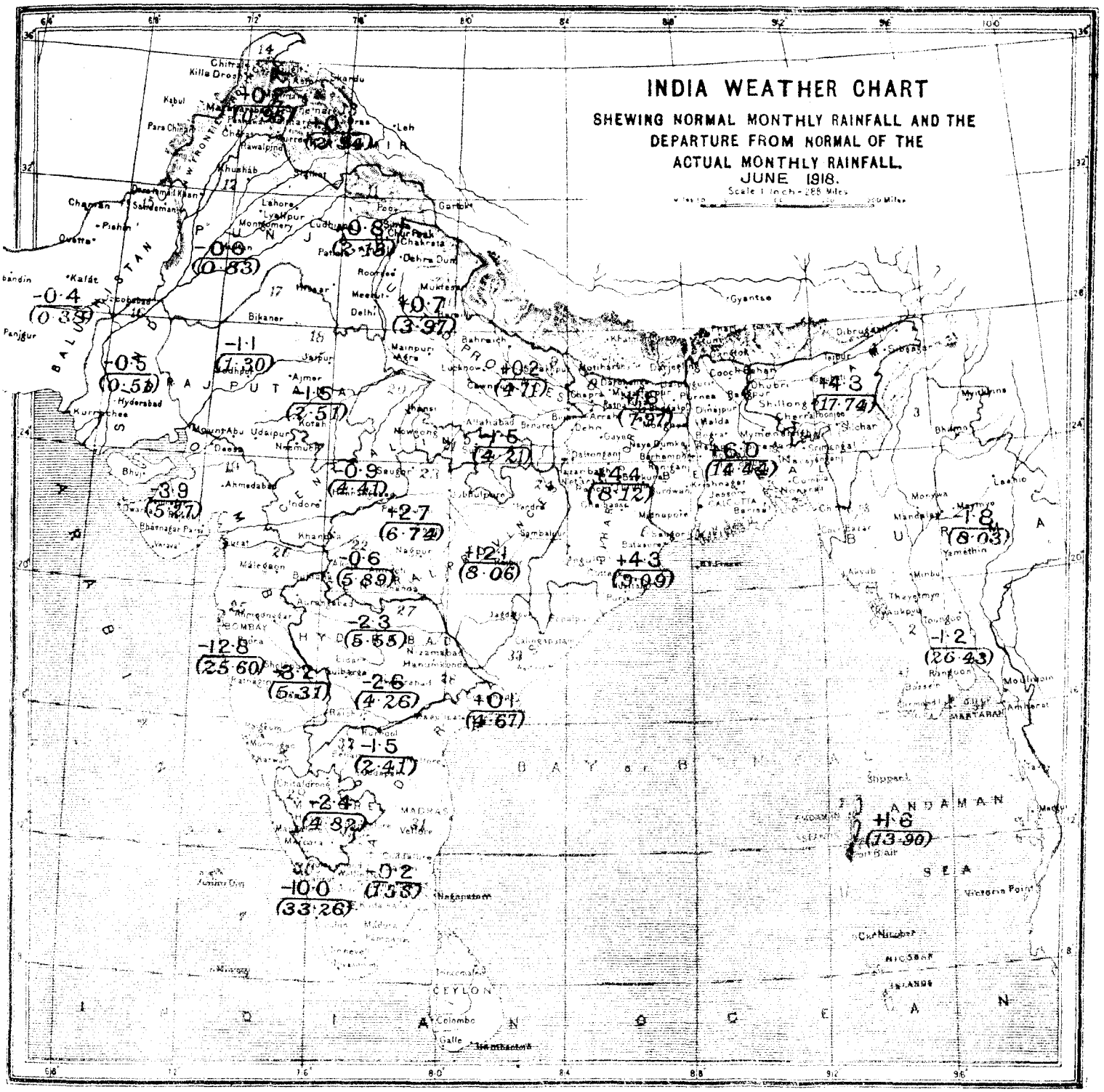


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA

CALCUTTA, JULY, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of July, 1918, is based on observations taken daily at 8 hrs. at 215 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review have been utilized.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The Arabian Sea monsoon was exceptionally weak except in the first and last weeks of the month; an almost complete break occurred for over a fortnight, the only areas where the break was not very prolonged being the Konkan and Malabar. The Bay current was not so weak, but the rainfall due to it was also in defect except in Assam. A depression from the Bay which passed into Orissa on the 29th caused widespread rain in north-east and central India. Two western disturbances passed into north-west India, the first in the middle of the month and the second in the last week, and caused rain in the Punjab and the surrounding hills.

In agreement with the failure of the monsoon humidity and cloud were mostly in defect and maximum temperature was above the average.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather is generally unfavourable for observations in July, but this year there were only two days on which there was no prominence record and one day on which spots could not be observed. On fifteen days the prominence record was imperfect owing to cirrus cloud.

Sunspots.—Thirty-five new groups of spots were recorded—the highest number since the beginning of this year. The daily average number was 6·7 and the average life of a spot 5·7 days. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	1°–10°	11°–20°	21°–30°	Mean latitude.	Extreme latitudes.
North . . .	7	10	1	11°·9	5°, 21°
South . . .	2	13	1	14°·7	8°, 25°
Equator 1 . . .	...	...	...	...	...

Prominences.—Fifty-two large, two eruptive and eight metallic prominences were recorded in the month. The two eruptive prominences were photographed on the 20th and 22nd in the north-east and north-west quadrants respectively and both of them reached a height of 360″. The development of these prominences could not be followed owing to cloudy skies.

Magnetic disturbances.—"Moderate" magnetic disturbances were recorded from the 8th to the 11th, on the 15th and from the 25th to the 31st.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$ m.

Subsoil—Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·6	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
July 1st	e P	6 17 42	...	...	...	...	...	
	e L	6 28 30	...	...	...	...	...	
	M	6 44 24	...	...	100	...	...	
	F	7 59 42	...	...	...	...	...	
„ 3rd	e P	7 02 48	...	...	...	...	...	
	e L	7 08 00	...	...	...	...	...	
	M	7 37 42	...	...	350	...	...	
	F	9 21 18	...	...	...	...	...	
„ 8th	P	...	...	...	...	...	...	
	i L	10 26 24	...	...	...	...	...	
	M	10 31 30	...	...	1400	...	...	
	F	12 02 48	...	...	...	...	...	Very destructive in Assam.
1918.		h. m. s.						
July 15th	e P	20 24 54	...	...	...	...	...	Widening of line.
	F	20 41 12	...	...	...	...	...	
„ 21st	e P	6 29 30	...	...	...	...	...	
	e L	6 32 00	...	...	...	...	...	
	M	7 02 48	...	...	40	...	...	
	F	8 58 42	...	...	...	...	...	
„ 24th	P	...	...	...	...	.	...	
	e L	11 57 42	...	...	...		...	
	M	12 01 48	...	...	70	...	...	
	F	12 17 12	...	...	...	...	...	
„ 29th	e P	12 12 00	...	...	...	...	...	Widening of line.
	F	12 21 18	...	...	...	...	...	
„ 29th	e P	12 36 12	...	...	...	...	...	Widening of line.
	F	12 44 24	...	...	...	...	...	
„ 29th	e P	12 59 42	...	...	...	...	...	Widening of line.
	F	13 01 48	...	...	...	...	...	
„ 29th	e P	15 09 48	...	...	...	...	...	Widening of line.
	F	15 11 54	...	...	...	...	...	
„ 29th	e P	16 46 18	...	...	...	...	...	Widening of line.
	F	18 07 30	...	...	...	...	...	
„ 29th	e P	22 57 30	...	...	...	...	...	Widening of line.
	F	23 01 30	...	...	...	...	...	
„ 31st	e P	16 09 30	...	...	...	...	...	Widening of line.
	F	16 28 30	...	...	...	...	...	

S. SITARAMAYYA,

Officiating Assistant Director.

BOMBAY OBSERVATORY.

Alibag Magnetic Record.

4. During the month of July, 1918, the traces showed 9 calm days and 22 days of small disturbance.

The days of the month selected as "quiet" are the 6th, 7th, 17th, 22nd and 23rd.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	C	25	S
2	S	10	S	18	S	26	S
3	S	11	S	19	C	27	S
4	S	12	S	20	C	28	S
5	C	13	S	21	C	29	S
6	C	14	S	22	C	30	S
7	C	15	S	23	C	31	S
8	S	16	S	24	S		

C=calm ; S=small ; M=moderate ; G=great ; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and the declination for the month are as follows :—

Easterly declination	0° 28′ 0″.
Horizontal force	0·36901 C.G.S. unit.
Vertical force	0·16990 C.G.S. „
Inclination	24° 43′·3.
Horizontal force range . . .	0·00055 C.G.S. unit.
Horizontal force summed range . .	0·00393 C.G.S. „
Declination range	4′·7.
Declination summed range . . .	21′·5.

(NOTE.—Summed range means sum without regard to sign of the 24 ordinates of the diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil*—Trap

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	G	$\frac{r}{To^2}$
AN :				
AE :	20	32	1	...
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
July 1st	P	6 17 9	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.
„ 3rd	P	7 3 25	...	...	...	...	...	
	S	7 12 58	...	...	...	...	...	
	M	7 37 18	...	...	890	...	...	
„ 8th	P	10 26 11	...	...	...	...	...	
	S	10 29 29	...	...	...	...	...	
	L	10 31 18	...	...	...	...	...	
	M	...	...	...	...	...	...	Amplitude too large, stopped by guards.
„ 11th	P	17 15 48	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.
„ 21st	P	6 22 25	...	...	...	...	...	P, as shown by the float record (Tilt Seismograph).
	M	...	...	...	...	...	...	Maximum not well marked.

N. A. F. MOOS,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6{\cdot}4$m. *Subsoil*—Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	40	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
July 3rd	P	7 2 0	6	...	...	...	...	
	S	7 10 18	?	...	...	...	...	
	F	8 5 54	...	...	...	...	...	
„ 8th	P	10 23 0	...	...	...	...	...	
	S	?	...	...	...	...	...	
„ 11th	P	14 37 24	?	..	...	...	...	
	S	14 37 48	?	...	...	...	...	
	F	14 48 0	...	..	...	...	...	
„ 11th	P	17 9 24	?	...	...	...	...	
	S	17 10 06	?	...	...	...	...	
	F	17 31 06	...	...	...	...	...	
„ 12th	P	1 1 06	?	...	...	...	...	
	S	1 1 54	?	...	...	...	...	
	F	1 18 54	...	...	...	...	...	
„ 16th	P	19 1 06	?	...	...	...	...	
	S	19 1 42	?	...	...	...	...	
	F	19 12 0	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ *km. Subsoil*—Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
July 1st	e	6 17 18	...	...	...	...	...	
	M	6 34 42	...	61	...	...	...	
	M 1	6 39 42	...	...	82	...	...	
	F	7 19 36	...	...	...	...	...	Tremors.
„ 3rd	e P	7 3 0	...	...	...	...	...	
	e S	7 12 18	...	...	...	...	...	
	M	7 37 0	...	1071	554	...	...	
	F	8 25 18	...	...	...	...	...	
„ 8th	P	10 24 54	...	...	...	...	...	
	e S	10 27 24	...	...	...	...	...	
	L	10 28 48	...	...	...	...	...	
	M	.....	...	>2893	>893	...	...	Pendulum striking against stops from 10 hours 28 minutes 42 seconds to 10 hours 31 minutes 51 seconds.
	F	12 22 42	...	...	...	...	...	Assam earthquake.
„ 21st	e	6 32 36	...	...	...	...	...	
	M	6 32 42	...	14	36	...	...	
	F	7 43 18	...	...	...	...	...	

The following table contains a list of earthquakes that were reported:—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
		h. m.	sec.			
Shillong	July 6th	22 01	4	6	1	
Nagrakota (District Jalpaiguri).	,, 8th	10 05	60	2	2	
Borjuli (District Darrang, Assam).	,, 8th	10 08	90	3	7	
Chaibassa	,, 8th	10 15	3	4	1	
Shillong	,, 8th	10 18	117	8	1	Minor damages reported in the town.
Gantok (Tibet)	,, 8th	10 20	120	...	1	
Noakhali	,, 8th	10 20	90	8	Continuous shocks.	
Narayanganj	,, 8th	10 21	90	6	1	Cracks in two places in the road and sandy water gushing out of them for about one hour.
Chittagong	,, 8th	10 22	120	8	3	
Salonah (District Nowgong, Assam.)	,, 8th	10 22	120	8	Continuous shocks.	
Barisal	,, 8th	10 23	120	8	2	The walls of some of the buildings damaged.
Calcutta	,, 8th	10 23	...	8	1	
Sibsagar	,, 8th	10 23	120	5	Series of shocks.	
Hukitala (District Cuttack).	,, 8th	10 25	4	4	1	
Kurseong (District Darjiling).	,, 8th	10 25	60	7	1	
Yatung (Tibet)	,, 8th	10 25	60	...	1	
Gauhati	,, 8th	10 25	45	8	Continuous shocks.	
Mymensingh	,, 8th	10 27	30	8	2	Some old buildings tumbled down.
Srimangal (District Sylhet, Assam).	,, 8th	10 30	20	8	1	Many houses levelled with the ground and others seriously damaged.
Katmandu (Nepal)	July 8th	10 34	40	4	3	
Midnapur	,, 8th	10 44	2	5	3	
Berhampore	,, 8th	10 45	90	7	1	
Sangor Island	,, 8th	10 50	...	...	1	
Darjiling	,, 8th	10 50	...	...	1	
Shillong	,, 8th	10 54	1	3	1	
Midnapur	,, 8th	11 09	2	...	1	
Kyaukpyu	,, 8th	11 25	80	6	1	
Akyab	,, 8th	11 30	90	8	2	
Darjiling	,, 9th	10 50	240	...	1	
Faridpur	,, 9th	10 58	...	...	1	
Mandalay	,, 9th	11 23	3	3	3	
Gauhati	,, 11th	15 10	20	6	3	
Mymensingh	,, 11th	16 57	2	6	1	
Berhampore	,, 11th	17 12	7	3	2	
Narayanganj	,, 11th	17 12	10	3	1	
Srimangal (District Sylhet, Assam).	,, 11th	17 30	5	3	1	
Narayanganj	,, 12th	1 01	5	3	1	
Srimangal (District Sylhet, Assam).	,, 12th	1 30	1	3	1	
Kabul (Afghanistan)	,, 12th	8 09	40	6	3	
Berhampore	,, 12th	16 57	?	...	1	
Yatung (Tibet)	,, 14th	15 45	2	...	1	
Mymensingh	,, 15th	18 57	2	6	1	
Srimangal (District Sylhet, Assam).	,, 16th	19 00	2	6	1	
Shillong	,, 16th	20 01	3	5	1	
,,	,, 18th	8 01	3	3	1	
,,	,, 23rd	21 52	2	4	1	
,,	,, 24th	2 52	1	2	1	
Borjuli (District Darrang, Assam).	,, 25th	20 08	42	5	1	
Drosh	,, 27th	1 23	4	6	1	
Shillong	,, 30th	1 03	1	2	1	
Srinagar	,, 30th	10 30	5	5	1	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was above the average at all the three stations, the excess being as much as 0·050″ at Mauritius. Wind direction and velocity were normal except at Seychelles where the velocity was much higher than usual. Rainfall was in considerable excess at Mauritius and Zanzibar and in defect at Seychelles. These conditions were, on the whole, unfavourable for the Arabian Sea monsoon.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inch.	+ ·050	+ ·029	+ ·010
Actual mean wind direction . .	S 67° E	S 23° W	S 42° E
Normal mean wind direction . .	S 64° E	S 15° W	S 33° E
Actual mean wind velocity (miles per diem).	194	142	307
Normal mean wind velocity (miles per diem).	204	144	211
Rainfall departure from normal (in inches)	+ 1·45	+ 2·41	—1·00

Depressions and cyclonic storms.

8. There was a very feeble depression at the head of the Bay on the 4th and winds of gale force blew there on the 5th, but the depression did not develop. Another depression formed at the head of the Bay on the 26th and the 27th, and moving westwards on the 28th crossed the Orissa coast on the 29th and lay over the north of the Central Provinces on the next two days; by the 31st, however, it had become diffuse. Barometrically it was feeble, but as it marched westwards it caused considerable rain in northeast and central India.

According to a newspaper report a tornado passed on the 13th over Kendua and adjoining villages (Mymensingh district, Bengal), blowing down some buildings.

Two western disturbances passed into northwest India and caused rainfall in the Punjab and the surrounding hills between the 13th and the 17th and between the 23rd and the 28th.

Pressure.

9 Pressure was normal or slightly below it along the Himalayas and in excess over the rest of India, the excess being as much as 0·06″ or more in Rajputana, Bombay, Central India, the Central Provinces and Hyderabad; the usual monsoon trough of low pressure was absent during practically the whole month. Mean pressure was about normal in Burma. Over the plains stations in the country as a whole pressure was 0·034″ in excess.

The vertical gradient was somewhat steeper than usual in Rajputana and in the Central Provinces, and about normal elsewhere.

TABLE 9.

Division.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·008
Assam	—·010
Bengal	+ ·006
Bihar and Orissa	+ ·026
United Provinces	+ ·018
Punjab	+ ·002
North-West Frontier Province	—·013
Sind	+ ·053
Rajputana	+ ·061
Bombay	+ ·076
Central India	+ ·059
Central Provinces	+ ·059
Hyderabad	+ ·063
Mysore	+ ·048
Madras	+ ·037

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	+·045	Jacobabad	+·031	—·014
Leh	+·017	Lahore	—·006	—·023
Murree	—·010	Peshawar	—·019	—·009
Simla	+·022	Ludhiana	+·004	—·018
Muktesar	—·004	Bareilly	—·004	0
Darjiling	—·028	Dhubri	—·004	+·024
Mount Abu	+·061	Deesa	+·094	+·033
Pachmarhi	+·051	Khandwa	+·075	+·024
Kodaikanal	+·038	Madura	+·034	—·004

Temperature.

10. Maximum temperature was within 2° of the normal in the Bay Islands, Burma, Bengal, the southwest Punjab, Kashmir, Baluchistan and Sind, was 2° below normal in Assam and was above it everywhere else; the departure from the average went up to 7° in the United Provinces, the east and north Punjab and in east Central India. The high temperatures occurred mainly during the long break in the monsoon in the middle of the month. Minimum temperatures were mostly normal.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE. Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	DEPARTURE FROM NORMAL OF Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·7	78·1	81·4	6·7	—0·5	+0·9	—1·4
2. Lower Burma	85·0	75·5	80·2	9·6	+0·6	+0·3	+0·3
3. Upper Burma	89·7	75·9	82·8	13·8	0	+0·1	—0·1
4. Assam	86·9	76·6	81·8	10·3	—2·1	—0·6	—1·5
5. Bengal	89·0	78·6	83·8	10·3	+0·9	+0·4	+0·5
6. Orissa	91·8	79·3	85·6	12·5	+3·4	+1·1	+2·3
7. Chota Nagpur	93·1	77·8	85·5	15·3	+4·0	+1·4	+2·6
8. Bihar	93·2	79·8	86·5	13·4	+3·0	+1·2	+1·8
9. United Provinces, East	98·7	81·9	90·3	16·9	+6·6	+2·4	+4·2
10. United Provinces, West	100·5	82·0	91·2	18·4	+7·5	+2·5	+5·0
11. Punjab, East and North	104·0	82·9	93·5	21·1	+6·9	+3·2	+3·7
12. Do., Southwest	105·1	83·2	94·1	21·9	+1·1	—0·3	+1·4
13. Kashmir	84·6	59·1	71·9	25·5	+0·3	—0·9	+1·2
14. North-West Frontier Province	108·8	81·4	95·1	27·4	+5·9	+0·6	+5·3
15. Baluchistan	98·9	69·8	84·3	29·1	+0·9	—3·2	+4·1

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
16. Sind	99·1	81·5	90·3	17·7	+0·5	—0·5	+1·0
17. Rajputana, West	101·7	80·9	91·3	20·7	+2·3	—0·9	+3·2
18. Do., East	97·9	80·0	89·0	17·9	+4·2	+0·9	+3·3
19. Gujarat	92·5	78·4	85·5	14·1	+2·5	0	+2·5
20. Central India, West	90·4	74·1	82·3	16·3	+3·9	+0·6	+3·3
21. Do., do., East	96·7	80·9	88·8	15·9	+7·3	+2·8	+4·5
22. Berar	90·4	73·7	82·0	16·7	+3·5	+0·7	+2·8
23. Central Provinces, West	90·6	75·1	82·8	15·5	+3·9	+0·5	+3·4
24. Do. do., East	88·7	74·3	81·5	14·4	+3·0	+0·6	+2·4
25. Konkan	86·0	77·6	81·8	8·4	+2·2	+1·3	+0·9
26. Bombay Deccan	88·9	70·3	79·7	18·6	+4·4	—0·4	+4·8
27. Hyderabad, North	91·8	72·7	82·3	19·1	+4·3	+0·6	+5·7
28. Do., South	93·9	74·8	84·3	19·1	+5·0	+1·3	+3·7
29. Mysore	85·3	66·5	75·9	18·9	+4·4	—0·2	+4·6
30. Malabar	85·3	75·6	80·5	9·7	+2·4	+1·5	+0·9
31. Madras, Southeast	96·3	77·3	86·7	19·0	+2·6	+0·9	+1·7
32. Do., Deccan	95·8	77·4	86·6	18·4	+3·5	+0·6	+2·9
33. Do., Coast, North	93·4	79·4	86·4	14·0	+2·4	+0·7	+1·7

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·3	+0·3	+0·3
Assam	—2·1	—0·6	—1·3
Bengal	+0·9	+0·4	+0·6
Bihar and Orissa	+3·4	+1·2	+2·3
United Provinces	+7·0	+2·4	+4·7
Punjab	+5·3	+2·2	+3·3
North-West Frontier Province	+5·9	+0·6	+3·3

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+0·5	—0·5	0
Rajputana	+3·4	+0·2	+1·8
Bombay	+3·1	+0·1	+1·6
Central India	+5·6	+1·7	+3·7
Central Provinces	+3·6	+0·6	+2·1
Hyderabad	+4·8	+1·1	+2·9
Mysore	+4·4	—0·2	+2·1
Madras	+2·6	+1·0	+1·8

Winds.

11. Wind velocity was below the average in Bengal, the North-West Frontier Province and Bombay, and much above it in Burma and Rajputana. The degree of steadiness was either normal or above it except in Bengal and the North-West Frontier Province.

Wind directions were generally not appreciably different from the normal, but in the east Punjab and the United Provinces the easterly component was very weak which means that the Bay monsoon did not extend as far westwards as usual. The direction at Leh was south-south-east instead of west.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+1·4	+ 1
Assam	—0·1	+ 6
Bengal	—1·1	—23
Bihar and Orissa	—0·3	— 1
United Provinces	+0·2	+11
Punjab	+0·5	+11
North-West Frontier Province	—1·1	—22
Sind	+1·1	+13
Rajputana	+2·3	+29
Bombay	—1·4	+ 1
Central India	+0·1	+19
Central Provinces	+0·6	+11
Hyderabad	+0·9	+11
Mysore	+0·8	— 2
Madras	+0·6	+ 7

Humidity and cloud.

12. Humidity and cloud were normal in Burma, Assam and Bengal, and in defect elsewhere, the deficiency being considerable over most of the area.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	88	0	·886	+·005	8·4	+0·4
Assam	91	+ 1	·920	—·023	7·8	+0·3
Bengal	88	— 1	·969	+·005	7·9	+0·1
Bihar and Orissa	78	— 7	·895	—·029	6·5	—0·7
United Provinces	65	—17	·826	—·101	3·9	—2·5
Punjab	56	—14	·763	—·103	1·8	—2·5
North-West Frontier Province.	52	—13	·735	—·121	0·9	—1·7
Sind	71	— 2	·860	—·039	2·7	—2·1
Rajputana	59	—12	·700	—·130	3·9	—2·0
Bombay	76	— 8	·795	—·054	6·4	—1·3
Central India	71	—12	·751	—·081	6·1	—1·1
Central Provinces	74	—11	·731	—·072	6·2	—1·7
Hyderabad	70	— 9	·673	—·054	5·4	—1·8
Mysore	76	— 8	·596	—·043	6·3	—2·6
Madras	71	— 5	·784	—·021	5·0	—2·1

Rainfall.

13. Rainfall was in defect in all the divisions except Assam which had an excess. The deficiency was over 25 per cent. except in Burma and Bengal and was 50 per cent. or more over the greater part of the country; the monsoon never extended into Sind during the month. The month's fall over the plains of India as a whole was 40 per cent. in defect.

The unusually heavy rain in Assam caused, according to newspaper reports, serious floods in that province as well as in the adjoining districts in eastern Bengal; the flood in the Brahmaputra at Mymensingh seems to have been unprecedented.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	11·0	18·6	5·92	12·70	—6·78	— 53
2. Lower Burma	22·8	22·1	27·66	32·08	—4·42	— 14
3. Upper Burma	9·0	9·6	5·83	6·59	—0·76	— 12
4. Assam	21·1	19·0	26·49	18·32	+8·17	+ 45
5. Bengal	14·8	16·9	14·75	15·78	—1·03	— 7
6. Orissa	8·6	15·6	6·94	13·03	—6·09	— 47
7. Chota Nagpur	7·5	15·9	5·00	12·53	—7·53	— 60
8. Bihar	9·1	14·0	8·85	11·97	—3·12	— 26
9. United Provinces, East	5·3	12·6	3·80	11·44	—7·64	— 67
10. Do. do., West	4·8	11·7	4·09	11·41	—7·32	— 64
11. Punjab, East and North	2·4	6·8	1·51	6·15	—4·64	— 76
12. Do., South-west	1·9	3·1	1·27	2·50	—1·23	— 49
13. Kashmir	4·8	7·6	3·70	7·04	—3·34	— 47
14. North-West Frontier Province	2·7	4·1	1·46	2·97	—1·51	— 51
15. Baluchistan	0·4	1·4	0·32	0·96	—0·64	— 67
16. Sind	0	2·7	0	2·61	—2·61	—100
17. Rajputana, West	0·5	4·9	0·23	3·49	—3·26	— 93
18. Do., East	3·0	9·8	1·89	7·93	—6·04	— 76
19. Gujarat	4·3	12·9	3·93	13·22	—9·29	— 70
20. Central India, West	5·8	12·6	4·61	10·17	—5·56	— 55
21. Do., East	5·1	12·6	3·32	12·06	—8·74	— 72
22. Berar	6·6	12·2	4·62	9·34	—4·72	— 51
23. Central Provinces, West	8·6	15·1	8·09	13·44	—5·35	— 40
24. Do., East	10·0	16·4	9·48	15·50	—6·02	— 39
25. Konkan	15·7	26·4	15·88	40·52	—24·64	— 61
26. Bombay Deccan	4·1	11·5	2·26	8·13	—5·87	— 72
27. Hyderabad, North	6·2	12·0	4·57	8·11	—3·54	— 44
28. Do., South	7·0	10·3	3·19	6·32	—3·13	— 50
29. Mysore	4·0	9·7	1·84	7·42	—5·58	— 75
30. Malabar	14·8	27·2	9·86	38·33	—28·47	— 74
31. Madras, South-east	2·5	3·6	1·45	1·98	—0·53	— 27
32. Do., Deccan	1·9	6·1	0·85	3·18	—2·33	— 73
33. Do., Coast, North	7·5	10·0	4·62	6·55	—1·93	— 29

TABLE 16.

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	14·43	16·62	—2·19	— 13
Assam	26·49	18·32	+8·17	+ 45
Bengal	14·75	15·78	—1·03	— 7
Bihar and Orissa	7·46	12·35	—4·89	— 40
United Provinces	3·96	11·42	—7·46	— 65
Punjab	1·45	5·27	—3·82	— 72
North-West Frontier Province	1·46	2·97	—1·51	— 51
Sind	0	2·61	—2·61	—100
Rajputana	1·45	6·68	—5·23	— 78
Bombay	5·24	15·59	—10·35	— 66
Central India	4·12	10 89	—6·77	—62
Central Provinces	7·80	13 28	—5·48	— 41
Hyderabad	3·92	7·26	—3·34	— 46
Mysore	1·84	7·42	—5·58	— 75
Madras	3·09	6·82	—3·73	— 55
Mean of India	6·53	10·95	—4·42	— 40

Snowfall.

I.—AFGHANISTAN.

14. *Kabul.*—A report dated the 24th does not mention any fall during the month but there seems to have been some accumulation on distant mountain ranges and passes; the thickness of the covering was not known.

II.—THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kurram.*—No snow fell during the month and there was very little accumulation on adjacent hills at the end of the month.

(*b*) *Drosh.*—Two inches fell on the 16th on high ranges of the surrounding mountains. The thickness of the accumulations at the end of the month on passes and ranges was 1 to 3 feet.

(*c*) *Khyber Agency and the adjacent region.*—No snow fell. The depth of the accumulation as well as its extension to the lower slopes was said to be normal on the Sufed Koh.

(*d*) *Malakand.*—Snow fell on hills in Dir and Swat Kohistan and in upper Swat. It was reported to be still lying at the end of the month in the vicinity of Lowarai and Ushori passes.

(*e*) *Abbottabad* (*Hazara*).—One to four inches fell at altitudes of 16,000 to 17,000 feet. There was, however, little accumulation at the end of the month.

III.—KASHMIR.

(*a*) *Srinagar.*—There were no falls on any of the mountains near Srinagar.

(*b*) *Gulmarg.*—Snow fell on the 16th, and on the surrounding higher mountains there was a fall on the 24th.

(*c*) *Sonamarg.*—Fresh falls were observed on the nearest mountain ranges on the 4th, 16th, 17th and 25th.

(*d*) *Skardu.*—Light snow (less than half an inch on each occasion) fell on the tops of hills and ranges on the 14th, 15th, 16th, 17th, 24th, 25th and 26th. Accumulations on the western ranges at the end of the month were thicker and lower than usual.

(*e*) *Dras.*—No snow fell.

(*f*) *Kargil.*—

TABLE 17.

LOCALITY.	ACTUAL FALL.
	"
Archulla	8
Nakthulla	3
Burrulla	1
Samenulla	1
Narainulla	1
Other mountains	1

TABLE 18.

LOCALITY.	DEPTH OF ACCUMULATIONS AT THE END OF THE MONTH.
	"
Archulla	3
Samenulla	2
Nakthulla	1

Other mountains surrounding the station were clear at the end of the month.

(*g*) *Leh.*—Snow f ll several times during the month on the mountains down to about 13,000 feet but it melted very soon. All the passes were reported to be free from snow. Scarcity of water in the valleys was believed to point either to a deficiency in the fall of snow or to the temperature being too low to melt enough of it.

IV.—PUNJAB.

(*a*) *Chamba.*—There were no fresh falls or old accumulations below 8,000 feet. On high mountains above 12,000 feet a fall was reported about the middle of the month.

(*b*) *Kulu.*—Snow fell on the 14th and 15th down to 15,000 feet in Spiti and about 11,000 feet in Lahoul. Before then there were 3 to 5 feet of snow on the summit of the Rohtang. In east Kulu at the head of the Parbati valley there were continuous snow fields in the first week of the month at about 14,000 feet. The deposits at the head of the Parbati glacier were very deep and those on the main or eastern Himalayas to the east of Spiti on the Tibetan and Ladakh border also appeared to be considerably thicker than usual at the end of the month.

(*c*) *Kilba* (*Simla Hills*).—There was a slight fall on mountain ranges over 14,000 feet high on the 13th, 14th, 15th and 26th. The report was dated the 27th. The fall on the highest mountain ranges was not more than 6″; the accumulations there were not expected to melt away before the end of the month.

The figures for some of the passes are as follows:—

TABLE 19.

Name of pass.	Actual fall.	Estimated Accumulation.	
		Northern aspect.	Southern aspect.
	Inches.	Feet.	Feet.
Shatul	2	5	2
Brua	2	5	1
Rupin	2½	8	3
Chhitkul . . .	3	8	3
Rakchham . . .	3	8	3

The depths of the accumulations given here refer to the sides of the passes and not to the saddles where no snow existed on the date of the report owing to the steep nature of the ground.

V.—UNITED PROVINCES.

Garhwal.—One or two inches fell on the 3rd, 4th, 5th and 6th on peaks above 18,000 feet in the north of the district. Accumulations at the end of the month on higher peaks were reported to be very much less than usual owing to extremely hot and dry weather.

VI.—EASTERN HIMALAYAS.

Sikkim.—No snow fell at Gangtok and Yatung.

No snow fell in the North-East Frontier District.

SUMMARY.

15. The fall in the North-West Frontier Province and the western Himalayas was normal or somewhat above it.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in July, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressure.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta	21	29·593	29·503	·090	29·554	+·014	29·522	91·4	80·1	11·3	97·0	75·2	21·8	86·9	88·3	85·4	+2·4	78·5	81·4	81·9	80·6
	VI.—Punjab.																					
11	Lahore	702	28·801	28·715	·086	28·754	—·014	29·391	105·4	83·7	21·7	113·4	72·9	40·5	95·6	103·8	93·6	+4·5	74·5	78·9	80·2	77·9
	IX.—Rajputana.																					
18	Jaipur	1,431	28·214	28·117	·097	28·164	+·049	29·491	99·8	79·8	20·0	104·5	76·3	28·2	89·8	97·3	88·6	+3·9	72·6	75·3	76·3	74·7
	X.—Bombay.																					
25	Bombay	37	29·772	29·711	·061	29·752	+·080	29·730	87·1	79·9	7·2	88·7	77·8	10·9	83·3	84·2	82·0	+2·5	75·1	78·2	78·3	77·2
	XIV.—Mysore.																					
28	Bangalore	3,021	26·919	26·823	·087	26·875	+·047	29·697	85·8	65·9	19·9	90·1	61·8	28·3	77·5	82·7	73·9	+1·9	64·0	67·7	68·3	66·7
	XV.—Madras.																					
31	Trivandrum	198	29·727	29·643	·079	29·691		29·822	84·3	75·6	8·7	87·4	73·4	14·0	81·9	82·7	78·5			76·0	76·3	
	Pudukkottai	318	29·542	29·409	·133	29·475		29·716	100·1	77·5	22·6	104·2	73·1	31·1	89·9	97·0	88·8			73·2	74·0	
	Madras	22	29·788	29·681	·107	29·746	+·028	29·698	99·0	80·2	18·8	103·2	75·9	27·3	91·1	92·0	88·1	+2·4	73·7	76·7	78·2	76·2
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·438	25·385	·053	25·409	+·019	25·361	83·7	68·5	15·2	89·0	63·7	25·3	76·9	80·1	75·7	+0·6	66·2	70·7	72·7	69·9
	Kodaikanal	7,688	22·818	22·775	·043	22·797		22·731	66·8	51·7	15·1	72·3	49·2	23·1	62·3	60·8	59·3		47·5	55·7	56·0	53·1
	Extra India.																					
	Seychelles	15	30·037	29·967	·070	30·003	+·010†	29·941	80·4	76·0	4·4	82·3	74·4	7·9	78·6	79·4	76·9	+0·5†	69·4	72·5	73·2	71·7
	Mauritius	181				30·048	+·039	30·120	73·2	60·4	12·8	75·7	53·8	21·9			66·2	—1·6				62·4

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
† Departure from old normal.

A.

at 12 stations in India, etc., in July, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 18 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·952	·994	·919	·982	+·011	93	78	76	83	− 4	7·8	8·8	8·3	−0·3	2	1	3	6	5	8	31	5	1	S 28° W	S 1° W	54	63	87	88	7·64	2·26	Calcutta . .	5
																															VI.—Punjab.	
·729	·730	·710	·751	−·112	64	46	34	49	−16	1·5	2·3	1·9	−2·4	5	2	3	2	11	6	10	12	11	S 59° W	S 78° E	27	30	52	60	0·32	0·18	Lahore . .	11
																															IX.—Rajputana.	
·713	·697	·668	·702	−·132	70	50	38	55	−21	3·5	4·5	4·0	−3·4	1	0	0	0	1	0	20	32	8	S 80° W	N 78° W	84	30	139	95	0·83	0·25	Jaipur . .	18
																															X.—Bombay.	
·800	·837	·886	·876	−·015	79	79	76	79	− 8	6·6	7·5	7·1	−1·6	0	0	0	0	1	4	24	31	2	S 67° W	S 75° W	85	83	179	340	4·25	1·68	Bombay . .	75
																															XIV.—Mysore.	
·573	·563	·523	·553	−·054	90	60	48	67	−10	6·6	7·5	7·1		0	0	0	2	0	0	5	47	8	N 88° W	S 72° W	87	88	215	168	0·73	0·19	Bangalore . .	29
																															XV.—Madras.	
	·809	·820				75	74			7·3	6·1	6·7		0	8	0	0	0	9	0	12	42	N 45° W		80		153		0·86	0·35	Trivandrum .	31
	·539	·526				42	31			2·3	5·4	3·9		6	2	0	0	3	5	7	21	13	N 36° W		60		120		1·20	0·48	Pudukkottai .	
·744	·724	·776	·763	−·049	72	50	52	59	− 9	4·4	5·9	5·1	−0·2	0	0	1	0	12	6	9	27	7	S 62° W	S 51° W	62	66	104	139	0·65	0·36	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·615	·673	·719	·675	−·018	88	74	68	77	− 4	6·9	6·8	6·9	+0·1	0	1	0	30	0	1	0	30	0	(a)	S 63° W	(a)	11	11	15	9·87	2·35	Katmandu.	
·287	·376	·401	·355		75	67	76	73		5·3	8·0	6·7		0	2	1	3	14	6	3	23	10	S 66° W		32		212		2·94	1·05	Kodaikanal.	
																															Extra India.	
·592	·719	·736	·697	−·054	66	74	73	72	− 6	4·8	6·3	5·5	−0·1†	0	0	2	0	53	7	3	0	0	S 42° E	S 33° E	93	86	307	211	1·41	0·60	Seychelles.	
			·673	−·004				78	+ 3			5·8	+0·9										S 67° E	S 64° E			194	204	3·89	0·61	Mauritius.	

(a) Indeterminate. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 215 stations in India, etc., in July, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°		°					"	"			"	"	"
Burma	—·008	87·0	+0·3	75·6	+0·3	81·3	+0·3	11·3	+1·4	+ 1	88	0	·886	+·005	8·4	+0·4	14·43	16·62	−2·19
Assam	—·010	86·9	−2·1	76·6	−0·6	81·8	−1·3	10·3	−0·1	+ 6	91	+ 1	·910	−·003	7·8	+0·3	26·49	18·32	+8·17
Bengal	+·006	89·0	+0·9	78·6	+0·4	83·8	+0·6	10·3	−1·1	− 23	88	− 1	·969	+·005	7·9	+0·1	14·75	15·78	−1·03
Bihar and Orissa	+·026	92·8	+3·4	79·2	+1·2	86·0	+2·3	13·6	−0·3	− 1	78	− 7	·895	−·029	6·5	−0·7	7·46	12·35	−4·89
United Provinces of Agra and Oudh	+·018	99·6	+7·0	81·9	+2·4	90·8	+4·7	17·7	+0·2	+11	65	−17	·826	−·101	3·9	−2·5	3·96	11·42	−7·46
Punjab	+·002	104·4	+5·3	83·0	+2·2	93·7	+3·8	21·4	+0·5	+11	56	−14	·763	−·103	1·8	−2·5	1·45	5·27	−3·82
North-West Frontier Province	−·013	108·8	+5·9	81·4	+0·6	95·1	+3·3	27·4	−1·1	−22	52	−13	·735	−·121	0·9	−1·7	1·46	2·97	−1·51
Sind	+·053	99·1	+0·5	81·5	−0·5	90·3	0	17·7	+1·1	+13	71	− 2	·860	−·039	2·7	−2·1	0	2·61	−2·61
Rajputana	+·061	99·4	+3·4	80·3	+0·2	89·9	+1·8	19·1	+2·3	+29	59	−12	·700	−·130	3·9	−2·0	1·45	6·68	−5·23
Bombay	+·076	90·2	+3·1	75·6	+0·1	82·9	+1·6	14·6	−1·4	+ 1	76	− 8	·795	−·054	6·4	−1·3	5·24	15·59	−10·35
Central India	+·059	93·6	+5·6	77·5	+1·7	85·5	+3·7	16·1	+0·1	+19	71	−12	·751	−·081	6·1	−1·1	4·12	10·89	−6·77
Central Provinces	+·059	90·0	+3·6	74·5	+0·6	82·2	+2·1	15·4	+0·6	+11	74	−11	·731	−·072	6·2	−1·7	7·80	13·28	−5·46
Hyderabad	+·063	93·2	+4·8	74·1	+1·1	83·7	+2·9	19·1	+0·9	+11	70	− 9	·673	−·054	5·4	−1·8	3·82	7·16	−3·34
Mysore	+·048	85·3	+4·4	66·5	−0·2	75·9	+2·1	18·9	+0·8	− 2	76	− 8	·596	−·043	6·3	−2·6	1·84	7·42	−5·58
Madras	+·037	93·5	+2·6	77·6	+1·0	85·5	+1·8	16·0	+0·6	+ 7	71	− 5	·784	−·021	5·0	−2·1	3·09	6·82	−3·73

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·749		29·826	29·800	8th	29·639	25th	79·5	77·0	83·5		75·5		79·5		8·0	86·1	13th	72·2	4th
	Mergui	66	29·812	+·015	29·808	29·886	21st	29·749	1st	77·8	76·4	83·7	−1·0	74·1	+1·1	78·9	+0·1	9·6	88·6	22nd	71·7	1st
	Tavoy	19	29·832	−·012	29·784	29·887	8th	29·772	1st	78·0	76·6	83·8	+0·7	72·4	−1·8?	78·1	−0·5?	11·4	88·8	23rd	69·0	31st
	Moulmein	94	29·733	+·014	29·759	29·812	8th	29·653	26th	78·1	76·3	82·6	−0·5	74·7	+0·5	78·7	0	7·9	87·1	16th	72·5	31st
	Rangoon	18	29·776	+·003	29·753	29·859	21st	29·686	26th	79·2	77·3	87·1	+1·9	76·1	+0·2	81·6	+1·1	11·0	92·1	16th	72·8	24th
	Bassein	27	29·761	+·011	29·725	29·839	21st	29·636	27th	80·3	78·1	87·6	+2·6	76·5	+0·5	82·0	+1·5	11·1	91·2	23rd	72·5	25th
	Diamond Island	41	29·734	−·003	29·710	29·817	21st	29·648	27th	81·5	78·2	85·3	+0·9	78·3	+2·3	81·8	+1·6	7·0	87·2	15th & 16th.	74·0	28th
	Toungoo	164	29·605	−·001	29·705	29·670	6th	29·526	26th	78·9	77·7	86·3	−0·0	75·0	+0·1	80·6	−0·3	11·3	99·5	3rd	71·7	29th
	Kyaukpyu	18	29·706		29·684	29·797	19th	29·611	27th	79·7	77·8	85·2		76·5		80·9		8·7	33·4	17th	73·4	29th
	Akyab	20	29·672	−·011	29·633	29·783	21st	29·5 5	28th	80·0	78·5	85·1	+0·6	75·5	−1·8	80·3	−0·6	9·6	83·1	13th	73·0	16th & 2nd.
3	Minbu	*165*	29·536	−·018	29·644	29·693	21st	29·477	27th	80·8	76·9	91·2	+0·4	78·0	+0·7	84·6	+0·5	13·2	96·7	17th —	75·6	1st
—	Yamethin	644	29·085	−·008	29·678	29·152	21st	29·0 2	26th	78·7	75·6	89·0	−0·6	75·1	+0·3	82·0	−0·1	13·9	94·8	1st —	73·4	30th
	Mandalay*	250	29·418	−·013	29·643	29·508	19th	29·338	6th	85·1	77·0	95·5	+1·4	79·7	+1·1	87·6	+1·3	16·2	99·7	1st	76·3	26th
	Monywa	*280*	29·412	−·013	29·639	29·470	18th	29·338	6th	82·1	77·6	93·0	−1·9	79·0	−0·1	86·0	−1·9	14·0	98·0	14th	75·9	1st
	Lashio	*2,820*	26·937	−·032	26·883	27·057	29th	26·875	6th & 11th.	73·8	70·6	83·3	0	70·9	+1·1	77·1	+0·5	12·4	83·1	27th	69·0	9th
	Bhamo	*361*	29·289	−·019	29·602	29·356	3rd	29·2 6	11th	79·2	77·8	88·1†	+0·2	74·0	−1·1	81·6†	−0·5	14·1	94·4	27th	71·6	16th
	Myitkyina	458	29·184	−·126	29·660	29·269	29th	29·099	12th	76·0	76·4	87·5	+0·4	74·5	−1·3	81·0	−0·5	13·0	95·6	28th	72·0	24th
	II.—Assam.																					
4	Dibrugarh	353	29·272	−·023	29·585	29·345	25th	29·197	12th	78·5	76·8	85·6	−1·6	75·5	+0·1	80·6	−0·7	10·1	93·9	29th	69·6	15th & 24th.
	Sibsagar	333	29·311	−·011	29·602	29·381	19th	29·197	12th	79·6	77·5	86·9	−2·7	77·8	0	82·4	−1·3	9·1	95·9	29th	74·4	13th
	Tezpur	252	29·385	0	29·595	29·486	25th	29·278	12th	76·7	77·1	86·8	−2·6	76·7	−1·0	81·8	−1·8	15·1	94·1	28th	73·3	12th
	Gauhati	196	29·425	−·015	29·575	29·507	24th	29·297	6th	81·0	78·3	83·1	−2·3	77·2	−0·3	82·7	−1·5	10·9	93·5	28th & 29th.	73·2	18th
	Dhubri	115	29·498	−·004	29·567	29·579	4th & 25th.	29·314	6th	79·5	77·8	83·9	−2·2	77·3	−0·9	80·6	−1·5	6·6	89·8	29th	73·3	17th
	Silchar	104	29·558	−·006	29·615	29·656	19th	29·445	6th	79·2	77·8	87·5	−2·6	76·5	−0·7	82·0	−1·7	11·0	95·1	28th	73·6	23rd
	Srimangal	66	29·592		29·608	29·650	19th	29·469	6th	80·1	77·7	89·4	−0·6	75·3	−1·2	82·4	−0·9	14·1	95·7	28th	70·6	23rd
	III.—Bengal.																					
5	Cox's Bazar	36	29·635		29·616	29·744	21st	29·535	26th	80·5	78·3	85·1		76·1		80·6		9·0	87·7	20th & 28th.	73·7	23rd
	Chittagong	87	29·573	0	29·605	29·673	19th	29·485	28th	80·4	78·6	86·4	+0·6	76·5	0	81·5	+0·3	9·9	90·0	4th	73·6	23rd
	Noakhali	45	29·609	+·008	29·569	29·710	19th	29·503	5th	81·8	79·4	87·6	+1·9	78·8	+1·4	83·2	+1·7	8·8	98·8	12th & 19th.	73·8	23rd
	Barisal	12	29·617	+·009	29·576	29·719	19th	29·500	5th	83·0	80·1	88·4	+1·0	78·6	0	83·5	+0·5	9·8	93·0	19th	75·2	23rd
	Narayanganj	16	29·597	0	29·572	29·692	19th	29·469	6th	82·6	79·5	88·2	0	78·2	−0·9	83·2	−0·5	10·0	92·3	19th	74·6	6th
	Mymensingh*	63	29·563	−·002	29·578	29·668	19th	29·415	6th	80·6	78·6	86·8	−0·6	77·8	−0·4	82·3	−0·5	9·0	92·1	29th	72·6	17th
	Bogra	75	29·528	−·010	29·554	29·615	18th	29·403	6th	82·2	80·1	88·8	−0·1	78·8	+0·3	83·8	+0·1	10·0	93·0	23rd	71·6	17th
	Dinajpur	133	29·469	−·006	29·526	29·564	19th	29·352	12th	81·9	79·5	89·0	−0·4	78·5	−0·1	83·7	−0·3	10·5	94·8	23rd	75·0	14th 16th & 18th.
	Jalpaiguri	283	29·436	+·003	29·516	29·413	25th	29·295	12th	79·6	77·5	86·8	−1·6	75·9	−1·2	81·4	−1·4	10·9	95·8	29th	72·9	21st
	Saugor Island	10	29·603	+·033	29·561	29·710	19th	29·403	29th	85·0	81·2	89·4	+1·5	81·4	+1·0	85·4	+1·3	8·0	93·7	2 8t	77·0	7th
	Midnapore	149	29·443	+·008	29·509	29·557	19th	29·265	29th	81·7	79·4	92·7	+2·7	80·1	+1·6	86·4	+2·1	12·6	98·0	22nd & 24th.	77·3	6th & 26th, 6th
	Calcutta	21	29·573	+ 011	29·547	29·671	19th	29·426	29th	83·7	80·5	91·4	+3·0	79·7	+1·1	85·5	+2·1	11·7	97·0	18th	67·7	

N. B.— Elevations in italics indicate barometrical determinations.

* Mean of 30 days.
† „ „ 24 „

B.

at 215 stations in India, etc., in July, 1918.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal	Total rainfall from 1st May to 31st July 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
4	1	0	9	1	0	13	10	2	S 70° W		9·7			69		89		·893		8·5		19		9·58	33·41	- 23·83	61·32	81·38	−20·06	1·35	Victoria Point.
11	0	1	4	4	3	4	3	1	S 8° E	S 70° W	5·1	1·3	+3·8	23	- 32	93	0	·893	+·012	7·1	+0·7	23	−2·4	24·66	31·86	— 7·20	75·12	78·82	— 3·70	3·20	Mergui.
13	1	0	1	4	5	5	2	0	S 42° W	S 61° W	2·4	1·2	+1·2	27	+ 9	93	0	·896	+·009	8·7	+0·9	30	+3·0	43·38	50·40	— 7·02	122·53	116·20	+ 6·33	4·20	Tavoy.
1	0	0	0	0	8	18	3	1	S 49° W	S 2° E	12·1	2·8	+9·3	82	+39	92	− 1	·852	+·014	9·8	+1·2	31	+3·3	39·15	46·39	— 7·24	110·95	102·88	+ 8·07	6·40	Moulmein
0	0	0	0	3	13	14	3	0	S 22° W	S 45° W	5·0	3·7	+1·3	82	+ 8	91	− 2	·809	−·002	9·5	+0·5	20	−5·2	13·04	21·55	— 8·51	39·59	51·71	−12·12	3·11	Rangoon.
8	0	0	0	0	3	16	3	1	S 48° W	S 18° W	5·4	3·3	+2·1	62	− 3	90	− 3	·944	+·017	7·4	−0·4	22	−4·1	16·29	25·16	— 8·87	47·85	58·09	−10·24	3·60	Bassein.
0	0	0	0	0	1	20	9	1	S 59° W	S 43° W	10·6	7·7	+2·9	89	+ 8	86	0	·925	+·014	6·5	−2·9	17	−6·2	14·87	26·03	−11·16	57·79	61·01	− 3·22	3·01	Diamond Island.
1	0	0	0	16	14	0	0	0	S 24° E	S 31° E	3·3	3·8	−0·5	92	+ 6	94	+ 3	·921	+·014	9·9	+0·6	27	+2·6	23·42	17·73	+ 5·69	54·75	39·37	+15·38	3·37	Toungoo.
17	0	0	2	1	4	6	1	0	S 17° W		2·2			30		92		·930		9·4		27		34·61	48·09	−13·45	122·79	102·09	+20·70	3·05	Kyaukpyu.
10	0	0	4	5	3	7	2	0	S 3° E	S 33° E	3·7	6·8	+0·9	57	−18	93	− 1	·941	−·016	8·5	−0·5	29	+1·4	47·93	55·49	— 5·56	168·94	111·57	+56·37	6·39	Akyab.
0	0	0	0	31	0	0	0	0	S 45° E	S 39° E	4·1	9·0	−4·9	100	+ 8	83	− 1	·866	−·011	7·2	+0·2	6	- 2·7	2·56	4·43	— 1·87	24·64	15·52	+ 9·12	1·60	Minbu.
										S 28° E						86	+ 1	·842	+·003	8·0	+0·6	17	+8·0	6·16	3·91	+ 2·25	12·83	15·19	− 2·36	0·99	Yamethin.
6	0	0	0	10	12	2	0	0	S 15° E	S 5° E	6·4*	6·6	−0·2	69	−12	68	− 7?	·815	−·031?	7·3	+1·0	3	−2·9	1·36	3·31	− 1·95	12·93	14·92	− 1·99	0·92	Mandalay.
4	0	0	1	24	2	0	0	0	S 44° E		3·7			86		81	+ 1	·884	−·001	9·1	+0·8	6	+2·4	2·51	2·60	− 0·09	11·56	13·74	- 2·18	0·83	Monywa.
5	0	1	0	0	4	19	1	1	S 42° W		2·9			69		85	− 4	·705	- ·021	8·3	−0·6	17	−1·0	9·15	12·46	− 3·31	38·15	29·52	+ 8·63	2·10	Lashio.
31	0	0	0	0	0	0	0	0	Calm.	N 70° W	0·5	1·4	−0·9	(a)		94	+ 1	·928	+·023	8·7	+0·2	17	−5·3	15·36	17·26	− 1·90	47·95	37·73	+10·22	3·15	Bhamo.
31	0	0	0	0	0	0	0	0	Calm.		1·0			(a)		93	+ 2	·889	-·006	8·9	−0·2	21	−0·3	23·06	19·03	+ 4·03	48·48	40·27	+ 8·21	4·30	Myitkyina.
																															II.—Assam.
24	0	1	1	0	1	4	0	0	S 19° W		0·2			10		92	− 1	·900	-·009	8·0	−0·1	20	−2·0	20·91	21·59	− 0·68	59·85	50·43	+ 9·42	3·35	Dibrugarh.
10	3	6	0	2	4	4	1	1	S 74° E	S 11° E	1·6	2·1	−0·5	4	−12	91	− 1	·912	−·053	9·3	+0·1	19	−0·3	17·30	17·07	+ 0·32	38·42	43·04	− 4·62	3·50	Sibsagar.
18	0	4	5	2	0	1	1	0	N 85° E		1·4			23		93	+ 2	·910	−·023	6·3	−2·1?	22	+5·2	34·68	13·93	+20·95	61·42	34·40	+30·02	4·90	Tezpur.
19	1	2	4	1	0	1	2	1	N 57° E		0·9			10		88	0	·932	−·018	8·1	−0·1	20	+5·7	18·22	10·81	+ 7·41	38·97	35·38	+ 3·59	3·55	Gauhati.
2	0	5	11	3	6	3	1	0	S 61° E	S 83° E	4·0	3·4	+0·6	46	+17	92	+ 1	·931	−·020	7·8	−0·1	19	+3·2	36·94	16·68	+20·26	73·54	55·39	+18·15	10·73	Dhubri.
24	0	3	3	1	0	0	0	0	N 76° E	N 84° E	1·6	2·0	−0·4	20	+13	94	+ 4	·934	−·014	9·5	+1·5	24	+1·2	35·79	19·90	+15·89	75·99	58·18	+17·81	3·52	Silchar.
																89	+ 2	·918	−·025	5·8		23	+1·2	28·43	16·97	+12·46	59·62	52·75	+ 6·87	4·47	Srimangal.
																															III.—Bengal.
5	0	0	2	13	7	4	0	0	S 24° E		4·6			69		91		·942		8·2		22		38·86	33·95	+ 4·88	142·06	73·24	+68·82	6·11	Cox's Bazar.
13	0	0	2	8	3	4	1	0	S 19° E	S 36° E	2·2	5·3	−3·1	40	−34	92	+ 4	·954	+·041	8·1	+0·2	17	−1·7	28·43	21·78	+ 6·65	74·01	52·50	+21·51	5·07	Chittagong.
3	0	0	1	16	4	4	3	0	S 21° E		4·4			65		90	0	·973	+·026	6·2	+0·1	13	−10·3	14·85	24·67	− 9·82	59·12	58·14	+ 0·98	3·10	Noakhali.
8	0	2	2	3	9	6	1	0	S 1° E	S 14° E	2·6	3·1	−0·5	45	+ 2	88	− 1	·988	+·009	8·7	+0·9	13	−7·7	10·89	15·48	− 4·59	46·68	41·19	+ 5·49	2.45	Barisal.
8	0	0	2	7	10	3	1	0	S 12° E	S 27° E	2·4	5·7	−3·3	59	−12	87	− 3	·967	−·014	8·6	+0·1	16	−1·2	21·60	12·46	+ 9·14	51·41	35·17	+16·24	9·26	Narayanganj.
17	0	0	3	6	1	3	0	0	S 35° E	S 49° E	2·0	3·0	−1·0	35	−38	91	+ 1	·954	−·003	9·3	+1·7	19	−1·1	18·97	16·35	+ 2·62	56·04	48·75	+ 7·29	3·19	Mymensingh.
14	0	1	7	1	3	3	1	1	S 46° E	S 48° E	1·4	3·1	−1·7	43	−42	91	+ 3	·999	+·033	8·8	+1·5	15	−1·5	8·97	13·05	− 4·08	46·76	35·89	+10·87	2·81	Bogra.
6	1	3	10	4	4	3	0	0	S 65° E	S 86° E	2·4	2·9	−0·5	46	−11	89	− 1	·976	+·009	7·7	−0·6	19	+1·8	26·35	15·27	+11·68	54·74	37·21	+17·53	6·15	Dinajpur.
30	0	0	0	0	0	0	0	1	N 45° W	N 88° E	1·0			?	−54	95	+ 4	·930	−·018	6·9	+1·0	26	+4·4	33·60	30·85	+ 5·74	89·89	65·24	+24·65	4·92	Jalpaiguri.
1	2	3	3	0	6	12	4	0	S 35° W	S 27° W	9·7	7·2	+2·5	40	−14	84	− 3	1·014	+·019	7·8	−0·9	9	−7·1	7·11	15·27	− 8·26	27·15	30·99	− 3·84	2·26	Sangor Island.
29	0	1	1	0	0	0	0	0	N 63° E		2·0			6		79	− 7	·929	−·015	6·2	+0·3	11	−5·3	10·24	12·85	− 2·61	32·97	28·00	+ 4·97	4·56	Midnapore.
3	0	1	4	4	3	15	1	0	S 14° W	S 3° W	3·8	3·7	+0·1	56	+ 6	87	− 1	·997	+·05	7·6	−0·9	13	−5·6	7·61	12·71	− 5·10	31·92	30·34	+ 1·58	2·26	Calcutta.

(a) Indeterminate.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	30	29·586	+·017	29·563	29·685	19th	29·474	5th & 6th.	83·4	79·7	90·5	+1·4	75·6	+0·6	85·1	+1·0	10·9	95·1	18th	74·7	15th
	Burdwan	99	29·487	+·001	29·533	29·576	19th	29·360	6th	83·4	79·8	91·9	+1·7	79·5	+0·2	85·7	+0·9	12·4	98·0	24th	74·0	14th
	Berhampore	67	29·527	+·006	29·543	29·614	19th	29·402	6th	83·5	80·0	91·4	+1·9	80·2	+1·4	85·8	+1·7	11·2	96·3	18th	75·2	21st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·556	+·018	29·550	29·655	19th	29·345	29th	84·1	79·2	93·2	+4·2	79·7	+1·3	86·4	+2·7	13·5	100·2	23rd	76·2	28th
	Hukitala (False Point)	29	29·611	+·036	29·581	29·718	19th	29·363	29th													
	Cuttack	80	29·568	+·048	29·588	29·675	19th	29·305	29th	83·9	78·8	93·2	+3·3	79·8	+1·2	86·5	+2·3	13·4	99·7	24th	76·2	27th
	Puri	24	29·625	+·039	29·591	29·731	19th	29·383	29th	83·9	80·9	88·4	+0·7	80·8	+1·0	84·6	+0·9	7·6	92·7	4th	76·5	29th
	Angul	455	29·174	+·019	29·571	29·687	19th	28·959	29th	83·4	77·7	92·3	+4·2	78·5	+1·4	85·4	+2·8	13·8	99·0	24th	75·0	5th, 27th & 29th.
	Sambalpur	486	29·157	+·040	29·589	29·252	19th	28·969	29th	82·1	77·3	92·0	+4·5	77·9	+0·5	85·0	+2·5	14·1	99·6	4th	73·9	31st
7	Chaibasa	*733*	29·364	+·036	29·540	29·871	19th	28·696	29th	82·8	77·1	93·5	+3·0	78·9	+1·8	86·3	+2·4	14·7	101·0	21st	75·3	27th
	Ranchi	2,128	27·513	+·043	29·529	27·609	19th	27·388	29th	79·3	73·8	86·0	+3·6	74·6	+1·3	81·3	+2·5	13·4	94·5	21st	71·0	22nd
	Purulia	*816*	28·783	+·037	29·547	28·882	19th	28·659	29th	83·9	77·5	95·5	+5·4	78·4	+1·5	86·9	+3·5	17·1	102·5	21st	75·1	10th
	Daltonganj	*730*	28·870	+·035	29·542	28·951	16th	28·751	6th	84·0	76·0	95·3	+4·0	79·2	+1·1	87·3	+2·5	16·1	100·5	22nd	73·7	8th
8	Purnea	124	29·460	—·005	29·537	29·537	19th	29·356	6th	81·7	79·4	89·7	−0·1	78·2	−0·6	84·0	−0·3	11·5	94·7	23rd	74·9	19th
	Monghyr	155	29·404		29·510	29·505	19th	29·306	12th	83·9	78·8	92·9		80·0		86·4		12·9	98·6	21st	75·1	8th
	Darbhanga	165	29·411	−·001	29·529	29·502	18th & 24th.	29·310	12th	82·9	78·8	90·6	+1·1	78·9	−0·7	84·8	+0·2	11·7	96·0	23rd	73·9	7th & 15th.
	Pusa	188	29·365		29·526	29·478	18th	29·236	12th	83·9	80·5	93·0		77·9		85·5		15·1	99·5	23rd	74·1	27th
	Patna	183	29·395	+·016	29·529	29·492	26th	29·277	12th	86·0	79·3	93·3	+2·7	81·0	+1·2	87·1	+1·9	12·3	98·5	26th	75·1	8th
	Buxar	239	29·326	+·014	29·517	29·407	24th	29·208	12th	85·3	76·3	97·3	+6·3	81·8	+2·8	89·6	+4·5	15·5	104·6	21st	76·7	6th & 7th,
	Gaya	372	29·215	+·028	29·537	29·297	19th	29·121	5th	85·4	77·7	95·6	+3·8	81·7	+2·9	88·6	+3·3	13·9	102·9	21st	75·6	7th
	Naya Dumka	489	29·105	+·020	29·541	29·182	19th	29·001	6th	81·3	78·7	93·3	+4·1	79·1	+1·4	86·3	+2·7	14·2	100·5	23rd		
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·304	+·003	29·515	29·390	2nd	29·168	12th	84·2	79·0	94·4	+3·4	80·3	+1·1	87·3	+2·3	14·1	99·3	23rd	76·4	7th
	Benares	267	29·302	+·021	29·517	29·331	24th	29·185	12th	88·4	78·8	99·3	+7·8	81·8	+2·1	90·8	+4·9	18·0	108·1	21st	78·0	7th
	Allahabad	309	29·280	+·043	29·538	29·369	18th	29·170	12th	88·9	78·3	101·5	+9·6	83·6	+3·9	92·5	+6·5	17·9	109·1	21st	76·2	8th
	Cawnpore	416	29·159	+·032	29·513	29·234	18th	29·032	12th	88·2	77·7	101·7	+8·1	83·5	+3·5	92·6	+5·9	18·2	108·0	21st	76·7	23rd
	Lucknow	368	29·188	+·014	29·503	29·280	24th	29·054	12th													
	Bahraich	407	29·145	+·002	29·506	29·242	2nd	29·019	12th	84·9	78·2	96·3	+4·2	80·2	+1·2	88·3	+2·7	16·1	102·5	21st	75·6	8th
10	Jhansi	824	28·782	+·033	29·548	28·870	19th & 21st.	28·652	5th	85·7	75·7	99·6	+7·7	81·3	+2·0	90·4	+4·9	18·3	105·1	29th	75·2	6th
	Agra	556	29·005	+·021	29·505	29·087	18th	28·870	5th	91·2	77·7	103·5	+9·4	84·9	+4·0	94·2	+6·7	18·6	107·4	21st	78·0	1st
	Mainpuri	516	29·054	+·031	29·515	29·160	18th	28·930	12th	90·4	76·9	105·1	+10·3	84·8	+4·4	94·9	+7·3	20·3	109·7	27th	78·5	26th
	Bareilly	568	28·969	— ·001	29·493	29·058	24th	28·822	12th	85·6	78·9	97·2	+5·1	80·7	+1·9	88·9	+3·5	16·5	103·7	22nd	73·0	9th
	Roorkee	899	28·643	—·002	29·493	28·739	25th	28·488	12th	84·0	76·6	96·9	+4·8	78·4	+0·3	87·7	+2·5	18·5	103·7	20th	73·1	9th
	VI.—Punjab.																					
11	Delhi	718	28·840	+·023	29·505	28·941	18th	28·707	6th	88·4	76·8	103·4	+9·0	84·9	+4·0	94·2	+6·5	18·5	107·0	30th	77·8	7th
	Hissar	725	28·831	+·044	29·493	28·953	19th	28·679	6th	90·4	75·8	106·0	+5·5	84·0	+2·1	95·0	+3·8	22·0	112·0	4th	77·8	18th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

t 215 stations in India, etc., in July, 1918 —*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															III.—Bengal—*concld.*
26	0	0	1	2	1	1	0	0	S 29° E	S 21° E	1·0	3·0	−2·0	13	−37	84	− 5	·961	−·039	7·5	−0·8	11	− 6·9	5·95	12·33	− 6·38	32·24	35·50	− 1·26	1·71	Jessore.
27	1	3	1	0	1	4	4	0	S 79° W	S 3° E	1·1	3·1	−2·0	13	−26	85	− 2	·970	+·013	8·4	+0·1	12	− 3·9	10·58	12·37	− 2·29	36·20	29·06	+ 7·14	3·51	Burdwan.
27	0	2	4	1	8	7	2	0	S 4° W	S 25° E	2·8	3·3	−0·5	40	−12	85	− 6	·975	−·012	7·7	−1·2	12	− 3·6	5·75	11·01	− 5·26	32·15	26·39	+ 5·76	1·42	Berhampore.
																															IV.—Bihar and Orissa.
33	3	2	0	0	8	12	2	1	S 41° W	S 37° W	3·2	4·3	−1·1	49	− 5	80	− 6	·930	−·015	6·4	+0·3	9	− 5·6	4·65	11·20	− 6·55	20·94	25·70	− 4·76	1·17	Balasore.
20	1	2	0	1	1	18	4	4	S 62° W		10·0			62	− 6					6·7	−1·7	6	− 8·3	3·86	12·14	− 8·28	16·37	25·05	− 8·68	1·23	Hukitala (False Point).
11	1	0	1	0	0	8	8	2	S 77° W	S 60 W	2·2	2·4	−0·2	46	− 6	80	− 2	·918	+·013	6·1	−1·3	9	− 6·6	5·79	11·69	− 5 90	22·13	25·57	− 3·44	2 02	Cuttack.
32	2	1	0	0	4	12	7	2	S 63° W		10·3			58		87	+ 1	1·014	+·042	5·3	−1·7	9	− 2·7	16·42	9·93	+ 6 49	30·76	19·89	+10·87	11·87	Puri
28	1	1	0	1	0	1	8	11	N 62° W		5·0			55		77	− 8	·875	−·017	6·1	−0·1	8	− 6·4	7·77	10·81	− 3·04	24·40	20·67	+ 3·73	3·48	Angul.
20	0	0	1	0	4	24	1	1	S 41° W	S 34° W	3·1	3·5	− 0·4	86	+26	80	− 5	·869	−·017	6·7	−1·5	7	−13·4	7·91	20 33	−12·42	41·10	31 58	+ 9 52	3·07	Sambalpur.
10	0	1	0	0	0	17	2	0	S 50° W	S 65° W	2·6	2·0	+0·6	56	+12	77	− 4	850	−·009	6·7	−0·6	7	− 8·6	6·47	12 04	− 5·57	19·31	23·57	− 4·26	2·24	Chaibasa.
20	1	0	1	2	2	5	13	7	S 87° W	S 63° W	4·1	5·8	−1·7	62	+30	77	−11	·762	−·033	7·2	−1·1	8	−10·1	5·12	15·07	−19·95	25·87	26·74	− 0·87	2 21	Ranchi.
26	1	1	0	3	0	3	10	7	N 82° W		1·9			45		74	−14	·856	−·056	8·0	+1·3	7	− 9·5	3·37	12·44	− 9·07	21·60	22·87	− 1·27	0·91	Purulia.
26	0	0	2	1	0	15	3	0	S 45° W		3·7*			61		69	−14	·790	−·106	4·8	−1·0	5	−10·2	4·67	10·38	− 5·81	19·15	17·27	+ 1·88	1·92	Daltonganj.
10	0	7	9	3	2	3	2	4	N 81° E	S 81° E	2·3	2·6	−0·3	30	−21	90	0	·972	−·011	7·1	0	14	− 2·9	12·34	13·97	− 1·63	33·55	29·51	+ 4·04	1·96	Purnea.
14	0	2	6	5	0	6	6	2	S 11° W		4·4			16		79		·913		6·2		9		9·55	9·37	+ 0·18	25·43	21·60	+ 3·83	2·64	Monghyr.
20	2	2	6	0	0	0	1	0	N 78° E	S 80° E	2·8	3·5	−0·7	20	−35	83	− 5	·929	−·044	7·5	+ 0·3	14	− 0·3	10·90	11·65	− 0·75	19·45	22·95	− 3·49	2·28	Darbhanga.
11	1	1	11	9	0	4	4	0	S 58° E		2·9			42		86		·994		7·3		12		11·04	10·42	+ 1·22	26·83	24·17	+ 4·66	5·16	Pusa.
50	1	11	1	0	2	10	1	S 23° E	N 81° E	3·5	3·4	+0·1	2	−40	74	−12	·908	−·039	7·9	− 0·3	7	− 7·2	6·76	13·06	− 5·30	23·07	21·74	+ 1·33	3·77	Patna.
20	2	1	4	1	1	12	9	1	S 62° W		5·0			45		73	−11	·876	−·071	5·6	−1·7	7	− 6·5	5·48	10·73	− 5·25	11·47	16·60	− 5·13	1·58	Buxar.
30	0	1	2	2	1	12	6	1	S 50° W	S 2° E	3·5	2·9	+0·6	46	+36	70	−13	·847	−·089	6·1	−0·7	9	− 6·3	6·14	12·54	− 6 40	18·12	20·73	− 2 61	1·22	Gaya.
30	0	0	1	1	1	0	0	0	S 45° E		1·2			10		78	− 9	·907	−·021	5·2	−1·8	8	−10·5	3·63	13·0	− 9·37	17·00	27·11	−10·11	0·92	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
0	0	11	1	0	2	6	0	S 62° E	N 63° E	1·6	1·7	−0·1	10	−22	79	− 8	·921	−·046	2·9	−3·5	7	− 7·6	9·07	12·90	− 3 83	16·41	21·95	− 5·55	2·49	Gorakhpur.
13	3	0	2	0	9	9	4	S 83° W	S 7° E	3·4	3·4	0	49	+39	64	−19	·850	−·101	5·4	−2·3	5	− 9·0	1·42	11·31	− 9·89	6·84	16·90	−10·06	0·35	Benares.
11	1	3	0	0	6	13	3	S 85° W	S 27° W	5·1	5·3	− 0·2	50	+44	62	−19	·827	−·104	5·3	−2·7	1	−12·9	1·03	11·68	−10·65	9·71	16·58	− 6·87	0·73	Allahabad.
11	1	2	5	1	7	9	2	S 55° W	S 1° E	3·4	3·4	0	37	+23	61	−23	·809	−·125	2·7	−3·4	6	− 6·4	1·43	10·23	− 8·80	5·70	13·60	− 7·90	0·32	Cawnpore.
0	0	1	0	1	3	8	0	S 71° W	S 82° E	1·4	2·8	−1·4	30	+ 6					4·8	−2·3	7	− 6·2	3·66	11·39	− 7·73	12·38	16·76	− 4·38	1·60	Lucknow.
10	0	4	2	2	0	4	0	S 31° E	S 68° E	2·6	2·6	0	7	−33	74	−11	·882	−·080	4·5	−1·2	9	− 3·1	6·35	10·69	− 4·34	17·49	18·25	− 0·76	1·72	Bahraich.
0	0	0	0	0	19	9	2	S 63° W	S 72° W	6·3	3·2	+3·1	86	+39	62	−17	·753	−·136	2·0	−2·8	7	− 6·5	4·49	11·45	− 6·96	6·35	16·28	− 9·93	1·48	Jhansi.
0	0	0	0	3	15	6	2	S 56° W	S 21° W	5·0	4·0	+1·0	63	+27	53	−24	·765	−·146	2·5	−4·0	3	− 8·6	2·19	9·10	− 6·91	3·17	11·98	− 8·81	1·50	Agra
11	1	3	1	1	3	13	4	N 87° W	S 41° E	2·2	1·5	+0·7	43	+10	53	−25	·739	−·180	4·0	−2·4	4	− 6·0	1·14	6·74	− 5·60	2·18	9·90	− 7 72	0·63	Mainpuri.
11	1	3	3	0	1	5	4	N 57° W	S 47° E	0·8	2·4	−1·6	10	−22	74	−10	·901	−·033	6·2	−0·4	5	− 8·1	3·99	13·47	− 9·48	12·52	19·23	− 6·71	1·42	Bareilly.
0	0	0	7	0	0	0	1	S 45° E	S 38° E	2·4	2·1	+0·3	20	−19	71	− 9	·815	−·055	3·1	−3·0	9	− 2·9	6·18	12·02	− 5·84	13·93	17·88	− 3·95	1·92	Roorkee.
																															VI.—Punjab.
21	1	3	5	1	2	9	8	N 74° W	S 22° E	5·1	3·1	+2·0	30	+ 8	58	−16	·769	−·102	0·9	−5·9	1	− 8·3	1·06	7·67	− 6·61	2·33	11·35	− 9·02	0·95	Delhi.
10	2	0	0	11	15	2	S 77° W	S 16° W	6·5	5·2	+1·3	72	+43	49	−18	·692	−·163	1·9	−2·6	0	− 5·3	0·08	3·95	− 3·87	0·48	6·26	− 5·78	0·08	Hissar.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division	STATION.	Height of bar-cistern above sea-level in feet.	PRESSURE, 8 HRS., IN INCHES.							TEMPERATURE OF AIR.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*concld.*																					
	Patiala	*818*	28·703	−·014	29·467	28·829	18th	28·544	12th	88·2	77·5	102·3	+7·7	82·2	+2·7	92·3	+5·2	20·1	106·4	3rd	77·4	26th
	Ambala	892	28·636	−·008	29·473	28·729	18th	28·479	12th	89·1	76·5	104·6	+10·0	82·8	+4·0	93·7	+7·0	21·8	109·9	30th	77·3	24th
	Ludhiana	812	28·714	+·004	29·473	28·828	18th	28·539	6th	88·1	76·1	104·4	+7·2	83·5	+3·1	94·0	+5·1	20·9	109·7	3rd	72·2	15th
	Lahore	702	28·795	−·006	29·448	28·922	18th	28·635	12th	89·6	77·4	105·3	+4·8	83·7	+3·5	94·5	+4·1	21·6	113·4	4th	72·9	15th
	Sialkot	830	28·666	−·018	29·446	28·779	18th	28·476	6th	88·4	78·2	101·4	+3·5	82·3	+2·4	91·9	+2·9	19·1	107·6	4th & 7th	72·5	15th & 25th.
	Rawalpindi	1,674	27·866	−·006	29·432	27·982	18th	27·638	6th	91·8	77·1*	101·9	+7·5	80·0	+3·5	92·5	+5·5	24·9	112·6	13th	70·2	15th
12	Khushab	612	28·875	−·012	29·440	29·019	17th & 26th.	28·682	6th	91·7	76·4	107·2	+4·6	83·8	+1·5	95·5	+3·1	23·4	115·2	7th	73·6	25th
	Lyallpur	605	28·881		29·440	29·042	18th	28·689	6th	89·4	76·0	105·9		83·3		94·5		22·6	114·8	6th	70·9	16th
	Montgomery	558	28·935	+·006	29·449	29·077	18th	28·737	6th	88·8	76·4	103·5	−0·8	82·8	−1·1	93·1	−0·9	20·7	112·6	4th	72·4	16th
	Multan	426	29·058	+·010	29·439	29·196	18th	28·856	6th	88·7	79·4	103·8	−0·5	83·0	−1·3	93·4	−0·9	20·8	111·8	4th	73·7	16th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·390	−·019	29·438	28·537	18th	28·269	6th	91·0	75·0	110·5	+7·8	79·4	+0·2	95·0	+4·0	31·1	120·6	11th	72·8	18th
	Dera Ismail Khan	590	28·898	−·007	29·441	29·057	18th	28·736	7th	89·8	71·8	107·1	+4·0	83·4	+1·0	95·3	+2·5	23·7	116·3	7th	71·1	16th
	VIII.—Sind.																					
16	Jacobabad	186	29·311	+·031	29·452	29·473	19th	29·145	6th	88·7	79·4	111·0	+2·6	83·1	−1·5	97·1	+0·5	27·9	119·7	11th	79·6	16th
	Hyderabad	96	29·457	+·047	29·505	29·622	19th	29·283	6th & 7th.	85·2	76·4	99·3	+0·1	80·7	−0·2	90·0	−0·1	18·6	101·8	7th	79·0	28th & 31st.
	Karachi	13	29·620	+·080	29·584	29·768	20th	29·462	6th	82·8	78·6	87·1	−1·1	80·6	+0·2	83·9	−0·5	6·5	89·6	20th	77·3	31st
	IX.—Rajputana.																					
17	Bikaner	*771*	28·817	+·063	29·537	28·944	20th	28·654	6th	86·4	75·0	104·6	+3·6	81·8	−1·3	93·2	+1·1	22·8	110·4	3rd	78·5	23rd
	Jodhpur	780	28·848	+·068	29·577	28·985	20th	28·692	6th	83·6	73·5	98·7	+1·0	80·0	−0·5	89·4	+0·3	18·7	104·5	3rd	76·8	23rd
18	Jaipur	1,431	28·205	+·053	29·560	28·314	20th	28·063	6th	84·8	74·0	100·0	+5·3	79·7	+1·2	89·9	+3·3	20·3	104·5	3rd	76·3	3rd
	Ajmer	1,611	28·039	+·058	29·572	28·157	20th	27·898	6th	81·3	72·4	95·4	+3·6	78·8	+0·8	87·1	+2·2	16·6	99·4	9th	74·4	1st
	Kotah	834	28·791	+·061	29·566	28·897	21st	28·655	5th	86·4	74·9	98·3	+3·6	81·4	+0·8	89·8	+2·2	16·9	102·0	20th	74·8	4th
	X.—Bombay.																					
19	Deesa	466	29·229	+·094	29·646	29·364	20th	29·076	5th	83·0	76·3	96·9	+4·2	78·5	+0·5	87·7	+2·3	18·4	99·8	29th	72·8	4th
	Bhuj	334	29·338	+·081	29·620	29·475	20th	29·192	7th	84·4	76·5	93·3	+2·6	79·2	+1·2	86·2	+1·9	14·1	99·0	5th	73·3	30th
	Jamnagar	61	29·629	+·074	29·635	29·757	20th	29·485	5th	85·2	77·5	93·4	+1·9	78·1†	−1·0	85·8†	+0·5	15·3	97·5	9th	75·2	26th
	Dwarka	37	29·668	+·088	29·651	29·795	20th	29·519	6th	82·3	78·0	87·3	+0·6	81·0	+0·4	84·2	+0·5	6·3	90·3	4th	73·1	31st
	Rajkot	429	29·576	+·078	29·650	29·393	20th	29·132	5th	82·9	75·4	94·9	+3·8	74·1	−2·0	84·5	+0·9	20·8	98·6	20th	71·8	26th
	Veraval	*18*	29·721	+·083	29·682	29·829	20th	29·564	5th	82·0	78·0	84·4	+0·6	81·0	+1·4	82·7	+1·0	3·4	86·2	4th	77·3	5th
	Bhavnagar Para	55	29·675	+·088	29·676	29·782	20th	29·514	5th	83·5	78·9	96·0	+2·6	77·8	−0·8	86·9	+0·9	18·2	100·2	22nd	75·0	24th
	Surat	39	29·720	+·092	29·702	29·826	20th	29·563	5th	82·6	74·3	88·6	+1·2	78·2	+0·6	83·4	+0·9	10·4	91·9	28th	73·3	1st
	Ahmadabad	152	29·562	+·093	29·674	29·685	20th	29·406	5th	83·2	76·7	97·8	+5·1	78·1	−0·5	87·9	+2·3	19·7	101·4	12th	76·0	4th
5	Bombay	37	29·770	+·079	29·748	29·858	20th	29·617	4th	81·9	77·3	87·2	+2·6	79·9	+2·2	83·5	+2·4	7·3	88·9	1st	77·8	22nd
	Ratnagiri	207	29·631	+·065	29·778	29·700	20th	29·523	4th	81·1	76·3	85·4	+1·5	77·4	+1·5	81·4	+1·5	8·0	87·9	1st	72·1	5th
	Marmagao	*60*	29·810	+·061	29·804	29·862	20th	29·736	4th	80·6	77·5	85·4	+1·7						88·4	17th		
	Karwar	44	29·831	+·052	29·808	29·872	20th	29·790	4th	79·1	77·3	85·3	+2·4	75·5	+0·3	80·4	+1·3	9·8	87·6	19th & 20th.	71·0	30th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 26 days.
† „ „ 22 „

B—*continued.*

at 215 stations in India, etc., in July, 1918—*continued.*

WIND DIRECTION. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal	Departure from normal.	WIND STEADINESS. Actual percent age.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	STATION.
21	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	54	55
																															VI.—Punjab—*concld.*
0	2	2	1	10	3	0	9	4	S 27° W		5·0			16		61	−17	·810	−·009	2·3	−2·7	1	−7·7	0·57	5·99	−5·42	3·77	8·91	−5·14	0·41	Patiala.
2	5	0	6	8	1	1	4	4	N 3° E	S 62° E	4·4	1·1	+3·1	13	−18	55	−27	·745	−·157	2·5	−3·3	3	−6·7	0·58	7·41	−6·83	2·51	12·11	−9·60	0·27	Ambala.
13	0	1	0	7	2	1	4	3	S 14 W	S 31° E	1·8	1·8	0	17	−10	56	−17	·747	−·124	1·8	−3·7	4	−4·5	1·44	7·92	−6·48	3·69	11·18	−7·49	0·55	Ludhiana.
7	0	1	2	4	4	4	6	3	S 39° W	S 42° E	2·2	2·5	−0·3	30	− 9	56	−14	·777	−·111	1·7	−2·1	2	−3·5	0·32	5·36	−5·04	2·15	7·84	−5·69	0·18	Lahore.
5	1	2	12	8	0	1	1	.	S 79° E	S 85° E	2·0	2·0	0	56	+ 9	62	− 9	·827	−·037	1·8	−1·8	1	−7·5	1·36	7·56	−6·20	3·57	11·14	−7·57	1·31	Sialkot.
5	1	1	7	10	5	0	1	1	S 54° E	S 82° E	2·1	1·3	+0·8	56	+31	5 *	−18	·756*	−·025	2·0	−2·4	2	−7·0	0·58	7·68	−7·10	3·17	11·05	−7·88	0·74	Rawalpindi.
3	2	6	3	2	8	2	0	0	S 69° E	N 6° E	5·5	5·5	0	43	−31	43	−16	·716	−·137	1·8	−0·9	2	−2·7	1·30	3·84	−2·54	2·76	6·00	−3·64	1·06	Khushab.
1	1	0	2	3	8	14	0	2	S 22° W		3·8			62		52		·709		1·9		2	−2·1	1·27	3·59	−2·32	1·43	5·49	−4·06	1·02	Lyallpur
1	0	0	1	1	12	14	1	1	S 24° W	S 15° E	5·9	7·0	−1·1	79	+49	55	− 3	·741	− 068	1·2	−1·3	2	−1·5	2·11	2·03	−0·23	2·11	3·64	−1·53	1·61	Montgomery.
7	1	1	0	5	14	3	0	0	S 6° E	S 89 W	1·5	2·3	−0·8	50	+75	66	+ 3	·883	+·022	1·3	−0·7	1	−1·2	1·20	2·07	−0·87	1·20	3·01	−1·80	1·13	Multan.
																															VII.—North-West Frontier Province.
23	4	0	0	0	3	0	0	0	N	N 9° W	0·7	3·0	−2·3	3	−39	46	−15	·672	−·114	1·2	−1·9	0	−2·1	0·03	1·87	−1·84	0·90	2·61	−1·71	0·03	Peshawar.
10	1	4	1	9	2	2	0	2	S 58° E	N 69 E	2·0	1·8	+0·2	27	− 5	58	−12	·708	−·129	0·7	−1·5	1	−2·1	1·11	2·22	−1·11	1·38	3·27	−1·89	1·02	Dera Ismail Khan.
																															VIII.—Sind.
4	0	0	0	21	2	4	0	0	S 31° E	S 49 E	3·5	4·1	−0·6	70	+11	60	− 1	·879	−·047	0·3	−2·2	0	−1·4	0	0·97	−0·97	0	1·30	−1·30	0	Jacobabad.
0	0	0	0	0	15	16	0	0	S 23° W	S 47 W	13·5	12·2	+1·3	95	+15	65	− 3	·703	− 045	0	−4·9	0	−3·3	0	2·99	−2·99	0	3·63	−3·63	0	Hyderabad.
0	0	0	0	0	0	15	16	0	S 69° W	S 76° W	15·1	12·6	+2·5	86	+12	82	− 1	·918	−·023	7·9	+0·7	0	−2·6	0·08	3·11	−3·03	0·08	4·13	−4·05	0·03	Karachi.
																															IX.—Rajputana.
0	0	0	0	0	8	19	4	0	S 39 W	S 23° W	9·2	6·1	+3·1	86	+22	57	− 8	·715	− 1·8	1·3	−2·2	0	−5·2	0·06	3·13	−3·07	0·22	5·14	−4·92	0·05	Bikaner.
0	0	0	0	0	2	28	1	0	S 43° W		7·5			99		60	−10	·694	−·111	0·3	−0·7	0	−5·0	0	3·78	−3·78	0·18	5·27	−5·09	0	Jodhpur.
0	1	0	0	0	0	5	22	3	S 89° W	S 73° W	5·7	3·9	+1·8	89	+47	59	−15	·693	−·134	4·1	−2·6	4	−6·6	0·83	7·93	−7·10	0·86	10·62	−9·76	0·25	Jaipur.
1	0	0	0	0	0	15	12	3	S 71° W	S 87° W	7·9	5·8	+2·1	86	+18	64	−15	·684	− 154	3·1	−2·9	2	−7·2	1·25	6·46	−5·31	1·83	9·23	−7·40	1·04	Ajmer.
2	0	0	0	0	0	16	11	2	S 67° W		5·2			86		57	−14	·712	−·103	4·3	−1·5	5	−5·4	2·88	9·32	−6·44	6·06	12·35	−6·29	1·18	Kotah.
																															X.—Bombay.
0	0	0	0	1	0	21	7	2	S 58° W	S 61° W	12·4	11·2	+1·2	86	+21	73	− 8	·870	−·044	7·8	−0·4	2	−8·4	1·11	9·43	−8·32	3·27	11·69	−8·42	0·95	Deesa
0	0	0	0	0	0	3	28	0	S 86° W	S 78° W	13·1	13·3	−0·2	99	+21	68	−13	·804	−·093	6·7	−0·6	1	−5·5	0·14	6·92	−6·78	0·14	8·82	−8·68	0·10	Bhuj
0	0	0	0	0	0	19	12	0	S 63° W		18·3			93		69	− 7	·837	−·061	4·2	−0·8	0	−7·7	0·03	8·43	−8·40	1·63	10·39	−8·71	0·03	Jamnagar
0	0	0	0	0	0	2	8	1	S 59° W		14·6			92		80	− 3	·850	−·062	6·2	−1·6	0	− 6·4	0·14	7·10	− 6·96	0·14	9·59	−9·45	0·03	Dwarka.
0	0	0	0	0	2	23	6	0	S 51° W	S 76° W	15·1	10·4	+4·7	92	+11	69	−14	·774	−·102	7·4	− 0·4	3	− 8·1	5·46	11·22	−5·76	7·32	15·75	−8·43	4·49	Rajkot
1	0	0	0	0	3	14	13	0	S 60° W	S 75° W	14·1	9·8	+4·3	86	+ 3	83	− 5	·905	−·026	6·6	−1·5	3	−6·5	4·66	7·16	−2·50	5·28	11·47	−6·19	3·45	Veraval.
2	0	0	0	0	0	19	8	2	S 62° W	S 43° W	5·8	10·7	−4·9	83	+ 6	81	+ 2?	·927	+·041?	7·0	−0·7	3	−6·0	2·68	7·16	−4·48	3·54	11·84	−8·30	0·18	Bhavnagar
5	3	0	0	1	7	10	5	3	S 47° W	S 55° W	6·5	9·5	−3·0	59	−18	79	− 7	·871	−·048	7·9	−0·2	9	− 6·5	10·86	17·09	−6·23	12·92	25·79	−12·89	2·74	Para Surat.
0	0	0	0	0	0	22	4	5	S 62° W	S 55° W	6·4	4·8	+1·6	82	+11	73	− 8	·835	−·048	5·9	−2·6?	4	−8·5	1·68	11·88	−10·20	4·05	16·59	−12·54	0·87	Ahmadabad.
0	1	0	0	0	2	13	4	1	S 68° W	S 70° W	7·5	14·2	−6·7	82	+ 8	81	− 5	·874	−·042	6·9	−2·0	7	−11·8	4·25	24·99	−20·74	26·67	44·41	−18·34	1·68	Bombay.
1	1	1	0	1	0	12	14	1	S 73° W	S 65° W	8·0	8·5	−0·5	76	+ 8	69	− 8	·830	− 045	6·7	−1·9	13	−12·8	12·09	34·19	−22·10	42·23	64·27	−22·04	3·48	Ratnagiri.
2	2	0	1	0	6	13	5	2	S 51° W	N 63° W	6·9	9·6	−2·7	62	−18	87	− 3	·903	−·010	8·0	−0·2	12	−13·5	13·15	32·14	−13·99	66·74	63·95	+ 2·79	4·27	Marmagao.
19	3	0	0	0	9	0	0	0	S	S 75° W	2·5	4·2	−1·7	19	−43	92	+ 6?	·915	+·071?	5·9	−2·1	17	−10·2	19·78	39·02	−19·24	73·45	79·27	−5·82	4·84	Karwar.

* Mean of 26 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division	Station	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay —*concld.*																					
26	Malegaon	1,430	28·330	+ ·079	29·651	28·433	20th	28·189	5th	80·1	71·9	93·3	+5·5	73·8	+0·4	83·5	+2·9	19·5	99·2	20th	70·6	22nd
	Ahmadnagar	2,154	27·663	+ ·069	29·710	27·742	20th	27·534	4th	76·5	69·1	89·8	+4·4	69·2	—1·5	79·5	+1·5	20·6	94·7	20th	65·5	21st
	Poona	1,846	27·956	+ ·067	29·726	28·043	20th	27·827	4th	76·6	73·5	86·8	+4·3	71·1	+0·2	79·0	+2·3	15·7	90·8	20th	68·3	23rd, 24th & 30th.
	Sholapur	1,590	28·210	+ ·061	29·725	28·281	20th & 21st.	28·094	4th	78·3	70·3	94·0	+4·7	72·0	+0·1	83·0	+2·4	22·0	99·6	13th	67·4	31st
	Bijapur	*1,948*	27·885	+ ·079	29·719	27·963	19th	27·778	4th	76·2	69·5	90·5	+3·8	70·1	—0·6	80·3	+1·6	20·4	95·9	20th & 23rd.	67·3	31st
	Belgaum	2,562	27·328	+ ·075	29·805	27·394	20th	27·251	4th	76·6	68·5	75·3	+3·6	65·8	—1·2	72·6	+1·2	13·5	84·1	21st	64·3	30th
	XI. Central India.																					
20	Neemuch	1,626	28·067	+ ·071	29·621	28·174	20th	27·935	6th	78·9	72·2	91·1	+3·1	74·9	+0·5	83·0	+1·9	16·2	96·1	30th	70·0	3rd
	Indore	1,823	27·898	+ ·069	29·646	28·010	20th	27·768	6th	77·6	72·5	89·7	+4·6	73·4	+0·7	81·6	+2·7	16·3	95·2	21st	70·7	3rd
21	Nowgong	754	28·852	+ ·044	29·549	28·944	18th	28·731	5th	81·6	75·3	93·1	+7·6	81·1	+2·5	89·6	+5·1	17·0	103·0	21st & 28th.	77·0	28th
	Sutna	1,041	28·567	+ ·051	29·545	28·651	18th	28·470	5th	94·1	76·0	95·4	+7·0	80·6	+3·1	88·0	+5·1	14·8	99·2	27th	73·8	6th
	XII.—Central Provinces.																					
22	Buldana	2,134								75·9	70·4	87·2	+3·2	71·0	+0·2	79·1	+1·7	16·2	9[illegible]·5	12th	67·4	31st
	Akola	925	28·804	+ ·057	29·672	28·898	20th	28·678	5th	80·3	72·7	92·8	+3·7	75·0	+0·6	83·9	+2·1	17·8	99·9	21st	70·3	31st
	Amraoti	1,215	28·501	+ ·063	29·658	28·592	19th	28·397	5th	79·4	72·0	91·2	+3·5	75·0	+1·3	83·1	+2·4	16·2	98·3	21st	69·5	31st
23	Khandwa	1,041	28·676	+ ·075	29·665	28·783	20th	28·552	5th	79·6	7[illegible]·8	91·7	+3·8	75·2	—0·3	83·4	+1·7	16·5	97·8	21st	71·4	31st
	Hoshangabad	1,006	28·691	+ ·071	29·640	28·796	20th & 21st.	28·551	6th	80·4	74·3	91·9	+4·3	7[illegible]·3	—0·1	83·6	+2·1	16·6	98·3	21st	72·2	31st
	Saugor	1,807	27·804	+ ·044	29·582	27·953	21st	27·718	6th	78·3	72·3	91·3	+5·4	74·6	+0·5	83·0	+2·9	16·7	94·8	22nd & 29th.	70·8	13th
	Jubbulpore	1,327	28·323	+ ·053	29·583	28·429	21st	28·177	30th	80·2	74·0	90·7	+4·2	76·6	+1·8	83·6	+3·0	14·1	95·3	22nd	72·9	30th
	Seoni	2,033	27·670	+ ·064	29·613	27·769	18th & 21st.	27·523	30th	76·2	71·7	86·9	+2·6	72·9	+0·4	79·8	+1·5	14·0	92·2	23rd	70·3	30th
	Nagpur	1,017	28·686	+ ·070	29·644	28·775	18th & 21st.	28·553	30th	80·5	73·6	91·0	+3·0	76·0	+0·8	83·5	+1·9	15·0	97·5	21st	72·2	31st
24	Pendra	2,010	27·632	+ ·065	29·574	27·738	18th	27·455	30th	79·4	72·9	87·4	+2·9	72·9	—0·2	80·1	+1·3	14·5	92·9	27th	70·0	18th
	Raipur	970	28·684	+ ·036	29·591	28·777	19th	28·488	30th	80·8	75·3	90·[illegible]	+3·4	76·0	+1·2	83·2	+2·3	14·2	97·2	22nd	71·8	31st
	Chanda	*634*	29·072	+ ·040	29·649	29·172	19th	28·[illegible]5	30th	81·3	74·1	91·3	+4·7	75·5	+0·8	83·9	+1·7	14·8	99·5	22nd	70·2	31st
	Jagdalpur	1,813	27·695		29·621	27·982	17th	27·740	30th	77·5	73·2	85·8		71·7		78·7		14·1	93·1	19th	68·3	31st
	XIII. Hyderabad.																					
27	Aurangabad	1,905	27·823	+ ·066	29·707	27·967	20th	27·702	4th	76·6	70·0	91·4	+4·8	71·0	+0·5	81·2	+2·7	20·4	96·5	12th	68·1	11th
	Nizamabad	1,248	28·511	+ ·061	29·693	28·591	21st	28·405	4th	79·3	71·9	92·2	+3·7	74·5	+0·7	83·4	+2·2	17·7	99·0	21st	69·3	29th
	Bidar	*2,165*								75·5	69·7	89·8	+4·0	P	P	P	P	P	96·5	5 days	P	P
28	Gulbarga	1,503	28·259	+ ·057	29·723	28·379	21st	28·185	4th	77·5	70·3	95·3	+6·1	72·8	+1·0	84·0	+3·5	22·5	101·5	14th	66·7	31st
	Raichur	*1,311*	28·514	+ ·073	29·758	28·579	21st	28·437	4th	79·1	72·0	95·4	+5·4	74·0	+1·1	84·7	+3·3	21·4	99·6	12th	71·2	2nd, 8th & 30th.
	Hyderabad (Deccan)	1,738	28·080	+ ·071	29·717	28·142	21st	27·987	4th	78·0	71·4	92·3	+4·8	74·5	+1·2	83·4	+3·0	17·8	99·5	13th	69·1	31st
	Hanamkonda	877	28·864	+ ·051	29·676	28·303	4th & 21st.	28·[illegible]8	4th & 29th.	82·4	73·3	92·6	+3·8	77·9	+1·9	85·3	+2·9	14·7	100·5	23rd	71·3	30th
	XIV. Mysore.																					
29	Chitaldrug	2,405	27·471	+ ·056	29·779	27·521	19th	27·408	3rd	73·3	67·6	87·7	+5·7	68·7	+0·2	78·2	+2·9	19·0	91·6	19th	66·7	4th
	Hassan	3,149	26·788	+ ·051	29·805	26·831	15th	26·735	1st	69·9	66·3	81·6	+4·3	61·4	—0·8	73·0	+1·7	17·2	87·3	19th	59·1	8th
	Bangalore	3,021	26·906	+ ·046	29·793	26·955	15th	26·851	3rd	71·0	66·2	85·8	+3·7	65·9	0	75·8	+1·9	19·9	90·1	27th	61·8	8th
	Mysore	2,518	27·397	+ ·039	29·805	27·449	15th	27·345	1st	73·8	67·5	86·3	+4·0	66·8	—0·2	76·6	+1·9	19·5	90·7	19th	64·0	8th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

at 215 stations in India, etc., in July, 1918—*continued.*

Wind direction. Number of winds from Calms	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*concld.*
0	0	0	0	0	1	21	8	1	S 57° W	S 75° W	11·2	10·6	+0·6	92	+ 6	66	−10	·679	−·072	5·9	−0·8	4	−4·1	1·12	5·07	−3·95	4·38	10·42	−6·04	0·47	Malegaon.
1	0	0	0	0	1	2	30	7	N 85° W	S 74° W	7·8	15·1	−7·3	86	+11	67	−13	·615	−·087	5·0	−2·2	2	−4·3	0·62	3·83	−3·21	7·18	9·75	−2·57	0·27	Ahmadnagar.
9	0	0	0	0	0	2	17	3	N 83° W	S 76° W	12·2	12·3	−0·1	69	−17	73	− 9	·616	−·042	3·8	−4·89	3	−9·7	1·22	7·36	−6·14	4·95	13·45	−8·50	0·70	Poona.
0	0	0	0	0	0	8	10	13	N 82° W	S 69° W	14·1	10·5	+1·6	82	− 2	66	− 8	·649	−·053	6·0	−2·1	4	−3·6	2·55	4·42	−1·87	8·27	10·11	−1·84	1·97	Sholapur.
0	1	0	0	0	0	4	17	9	N 80° W	S 74° W	10·0	7·4	+2·6	86	+ 1	71	− 9	·636	−·058	5·2	−2·5	1	−3·0	0·40	2·40	−2·00	5·27	6·79	−1·52	0·35	Bijapur.
1	0	0	0	0	9	11	18	0	S 71° W	S 77° W	5·5	19·3	−13·8	92	+ 5	89	− 4	·668	−·017	8·0	−1·3	6	−16·3	4·70	17·08	−12·38	9·72	27·71	−17·99	1·53	Belgaum.
																															XI.—Central India.
0	0	0	0	0	0	5	26	0	S 83° W	S 71° W	8·3	8·9	−0·6	96	+16	72	−11	·707	−·098	5·8	−1·3	5	−5·5	6·66	8·72	−2·06	12·74	13·17	−0·43	2·83	Neemuch.
1	2	0	0	0	1	20	7	0	N 76° W	S 81° W	5·5	4·9	+0·6	85	+14	78	− 8	·734	−·046	8·3	−0·6	5	−7·7	3·55	9·76	−6·21	7·56	15·79	−8·23	1·56	Indore.
1	1	0	0	0	0	6	14	9	N 83° W	S 84° W	4·7	3·1	+1·6	82	+24	55	−16	·761	−·122	6·7	−1·3	7	−7·2	4·21	13·49	−9·28	5·19	20·07	−14·88	1·05	Nowgong.
1	1	0	1	0	10	10	7	1	S 42° W	S 74° W	5·6	6·7	−1·1	69	+24	69	−13	·832	−·059	5·5	−1·52	10	−5·0	5·29	13·87	−8·58	9·27	19·92	−10·65	1·20	Satna.
																															XII.—Central Provinces.
0	0	0	0	0	0	4	18	9	N 84° W		6·5	6·8	+1·7	87		76		·673		6·8		6	−7·4	4·05	8·95	−4·93	14·05	16·18	−2·13	1·84	Buldana.
0	0	0	0	0	0	1	17	13	N 72° W	N 88° W	8·6	6·6	+2·0	92	+10	69	−10	·700	−·085	7·3	−1·0	7	−5·2	3·23	9·86	−6·43	11·01	15·29	−4·28	0·80	Akola.
0	0	0	0	0	0	1	19	11	N 75° W	S 88° W	8·9	6·6	+2·3	92	+ 9	70	−14	·692	−·098	5·9	−1·9	7	−5·4	3·57	9·18	−5·61	15·12	16·27	−1·15	0·67	Amraoti.
0	0	0	0	0	0	2	22	7	N 83° W	W	10·0	6·9	+3·1	92	+ 6	72	− 8	·719	−·056	6·4	−1·1	6	−4·8	4·23	8·88	−4·65	8·78	14·42	−5·64	2·07	Khandwa.
1	0	0	0	0	0	18	1	11	S 71° W	S 54° W	3·2	3·5	−0·3	69	− 6	75	−12	·767	−·076	7·6	−0·7	5	−10·1	4·80	15·65	−10·85	16·65	21·84	−11·19	2·22	Hoshangabad.
0	1	0	0	0	0	3	17	10	N 77° W	S 80° W	7·6	4·7	+2·9	89	+18	75	−10	·719	−·077	6·0	−1·5	8	−7·8	9·90	14·01	−4·11	16·25	21·11	−4·86	5·05	Saugor.
0	0	0	0	0	1	10	16	4	S 78° W	S 74° W	3·2	3·4	−0·2	86	+21	74	−12	·757	−·068	5·7	−2·4	7	−10·8	6·06	18·10	−12·04	13·29	26·06	−12·77	2·25	Jubbulpore.
4	1	1	0	0	0	2	12	11	N 68° W	S 76° W	3·1	4·5	−1·4	69	+ 4	72	−14	·693	−·087	5·4	−1·7	9	−9·3	4·77	15·66	−10·89	29·73	25·16	+4·57	1·36	Seoni.
1	1	1	0	0	0	2	11	15	N 64° W	S 76° W	5·4	6·4	−1·0	79	+11	72	−11	·732	−·085	4·7	−3·5	12	−4·6	8·25	14·24	−5·99	21·57	23·77	−2·20	2·23	Nagpur.
7	4	1	0	2	0	4	3	10	N 55° W		5·7			43		73	−12	·732	−·051	6·3	−0·9	10	−7·3	4·68	13·91	−9·23	22·75	22·25	+0·50	2·80	Pendra.
0	0	0	0	0	0	26	11	0	S 61° W	S 49° W	4·5	8·1	−3·6	92	+27	77	− 9	·804	−·036	5·8	−2·2	12	−3·7	12·58	14·68	−2·10	40·73	23·63	+17·10	4·90	Raipur.
0	0	0	0	0	0	12	17	2	S 75° W	S 69° W	5·8	4·4	+1·4	92	+14	71	− 8	·751	−·058	6·5	−1·3	9	−8·0	8·26	16·60	−8·34	25·19	24·54	−1·35	2·51	Chanda.
4	1	0	0	0	2	7	17	0	S 74° W		3·6			76		81		·764		6·2		14		11·67	14·84	−3·17	27·01	26·36	+0·65	2·50	Jagdalpur.
																															XIII.—Hyderabad.
0	0	0	0	0	0	5	20	6	N 89° W		15·0			92		72	− 9	·649	−·075	7·2	−1·0	4	−7·5	1·37	6·64	−5·27	8·81	13·08	−4·27	0·56	Aurangabad.
0	5	0	0	0	1	4	18	3	N 82° W		4·5			76		70	− 9	·684	−·075	4·8	−2·1	8	−6·0	7·10	10·58	−3·48	16·21	16·29	−0·08	2·36	Nizamabad.
0	0	0	0	0	0	12	5	14	N 88° W		3·8			74		74	−12	·652	−·077	3·7	−2·1	9	−2·0	7·48	8·41	−0·93	13·10	14·19	−1·09	1·60	Bidar.
0	0	0	0	0	0	3	23	5	N 87° W	S 64° W	11·8	11·5	+0·3	96	+15	70	−10	·652	−·073	4·9	−3·0	6	−3·5	1·00	6·52	−5·52	8·72	12·31	−3·59	0·25	Gulbarga.
0	0	0	0	0	0	0	15	11	N 31° W	S 50° W	12·6	10·9	+1·7	86	+17	70	− 5	·696	−·014	5·6	−1·0	3	−6·3	0·98	5·26	−4·28	6·19	9·61	−3·42	0·43	Raichur.
0	1	0	0	0	0	0	24	6	N 80° W	N 85° W	7·9	7·2	+0·7	92	0	72	− 6	·681	−·026	5·9	−1·9	9	−0·8	3·69	6·36	−2·67	6·30	11·88	−5·58	0·85	Hyderabad (Deccan).
0	0	0	0	0	1	6	13	11	N 84° W		5·8			82		64	− 9	·700	−·040	5·7	−1·8	6	−6·5	4·09	9·61	−5·52	13·47	16·03	−2·56	1·35	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	10	16	5	S 82° W	S 72° W	8·2	8·5	−0·3	89	− 4	74	− 9	·603	−·061	6·3	−2·8	1	−7·7	0·17	3·34	−3·17	1·98	9·36	−7·38	0·13	Chitaldrug.
0	0	0	0	0	0	6	15	10	N 83° W	S 87° W	8·4	3·7	+4·7	84	− 5	83	− 3	·605	−·029	6·6	−2·6	3	−9·4	1·81	5·79	−3·98	5·61	14·64	−9·03	1·05	Hassan.
0	0	0	0	0	0	6	22	3	S 86° W	S 66° W	8·9	7·0	+1·9	92	+ 2	77	− 8	·594	−·039	7·3	−1·2	3	−5·3	0·73	4·23	−3·50	10·20	11·33	−1·13	0·19	Bangalore.
2	0	0	0	0	0	10	19	0	S 75° W	S 67° W	7·4	10·5	−3·1	89	− 1	71	−11	·593	−·044	4·9	−3·8	3	−3·8	3·27	2·69	+0·58	6·93	11·06	−4·13	2·82	Mysore.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras																					
30	Mangalore	72	29·835	+·036	29·839	29·892	15th	29·793	1st	79·9	76·2	86·5	+2·8	75·2	+1·7	80·9	+2·3	11·3	88·3	9th	70·1	4th
	Calicut	27	29·883	+·027	29·889	29·933	15th	29·831	23rd	78·3	76·6	84·6	+2·5	75·5	+1·6	80·1	+2·1	9·1	86·8	18th	72·7	3rd
	Cochin	9	29·914	+·020	29·851	29·959	15th	29·869	24th	80·6	76·4	85·8	+2·0	76·3	+2·3	81·1	+2·1	9·5	87·7	9th & 12th	73·2	4th
	Trivandrum	198	29·717	+·023	29·846	29·764	9th	29·659	23rd	78·6	75·5	84·3	+2·4	75·5	+0·6	79·9	+1·5	8·8	87·5	26th	73·3	1st
31	Pamban	37	29·813	+·019	29·779	29·856	15th	29·769	1st	83·2	76·8	88·0	−1·5†	77·8	−1·5†	82·9	−1·5†	10·2	88·8	8th, 12th & 25th.	76·1	21st
	Madura	447	29·407	+·034	29·763	29·491	15th	29·365	23rd	83·9	73·5	98·5	+1·6	77·4	+1·0	87·9	+1·3	21·1	102·0	11th, 17th & 23rd.	69·5	24th
	Pudukkottai	318	29·536	+·036	29·783	29·573	15th	29·495	23rd	84·6	72·3	100·1	+4·3†	77·5	+0·5	88·8	+2·4†	22·6	104·2	23rd	73·1	26th
	Negapatam	31	29·812	+·033	29·773	29·852	15th	29·765	23rd	83·9	77·5	97·2	+1·3	78·7	+0·3	88·0	+0·8	18·5	100·5	15th	74·2	27th
	Trichinopoly	255	29·603	+·040	29·789	29·678	15th	29·565	1st	84·5	72·9	99·6	+2·2	77·7	−0·2	88·6	+1·0	21·9	103·5	17th	71·3	21st
	Coimbatore	1,341	28·835	+·044	29·800	28·883	15th	28·790	23rd	79·5	72·8	90·8	+3·1	71·9	+1·1	81·3	+2·1	18·9	94·2	23rd	68·5	7th
	Salem	913	28·951	+·048	29·796	28·997	15th	28·910	3rd	79·7	73·0	97·1	+4·0	74·6	+1·4	85·8	+2·7	22·5	100·6	10th	71·1	8th
	Cuddalore	37	29·783	+·025	29·759	29·822	15th	29·736	29th	84·0	75·3	95·6	−0·2†	78·9	+0·9	87·2	+0·3†	16·7	98·9	7th & 16th.	70·2	25th
	Vellore	707	29·112	+·034	29·750	29·157	15th & 21st.	29·057	29th	82·7	74·3	97·1	+3·0	76·1	+1·1	87·6	+2·1	19·0	101·5	15th	75·0	21st
	Madras	22	29·784	+·029	29·737	29·832	19th	29·740	28th	85·5	75·7	98·5	+2·7*	80·3	+1·5	89·4	+2·1	18·2	103·0	13th	75·8	2nd
32	Cuddapah	428	29·391	+·044	29·751	29·448	21st	29·329	3rd	85·9	74·3	97·5*	+1·7†	81·3	+3·4†	89·3*	+2·5†	16·2	104·5	21st	75·6	29th
	Bellary	1,475	28·359	+·054	29·739	29·425	19th	28·272	4th	80·0	70·7	94·7	+3·7	74·3	−0·7	84·5	+1·5	20·4	98·3	4 days	71·5	30th
	Kurnool	923	28·902	+·070	29·761	28·965	21st	28·833	4th	80·2	73·7	95·2	+3·4	76·7	+1·9	85·9	+2·7	18·5	99·3	13th	71·6	29th
33	Nellore	66	29·712	+·029	29·712	29·784	21st	29·660	29th	87·6	74·8	100·0	+2·8	82·1	+2·1	91·0	+2·6	17·9	105·9	21st	77·1	28th
	Masulipatam	15	29·734	+·029	29·684	29·805	21st	29·657	29th	85·3†	77·2	96·3	+3·7	78·4	+0·2	87·3	+1·9	17·9	105·3	19th	73·0	30th
	Cocanada	26	29·702	+·040	29·665	29·775	19th	29·562	29th	82·6	78·2	92·7	+1·6	78·9	0	85·8	+0·8	13·8	100·9	19th	73·9	30th
	Waltair (Vizagapatam)	*226*	29·476	+·051	29·641	29·571	9th	29·309	29th	82·7	77·4	90·4	+1·5	78·6	+0·1	84·5	+0·8	11·8	100·1	13th	74·3	29th
	Calingapatam	19	29·652		29·609	29·744	19th	29·488	29th	83·5	78·5	91·2		78·6		84·9		12·6	97·0	19th & 23rd.	75·3	29th & 30th.
	Gopalpur	33	29·695	+·040	29·591	29·699	19th	29·403	29th	83·9	79·0	89·8	+2·4	80·0	+1·0	84·9	+1·7	9·8	96·2	19th	75·3	29th
	Bay Islands.																					
1	P. V. Fraser	8	29·605		29·570	29·707	19th	29·377	29th	84·8	81·8											
	Port Blair	58	29·787	+·022	29·775	29·855	8th	29·695	1st	81·7	77·5	85·4	0	77·9	+0·4	81·6	+0·2	7·5	88·0	23rd	74·3	2nd & 26th.
	Table Island		29·710	+·005	29·734	29·795	21st	29·609	1st	81·2	78·1	84·1	−1·1	78·3	+1·3	81·2	+0·1	5·8	85·8	22nd	71·1	26th
	Kashmir.																					
13	Muzaffarabad		27·197			27·345	26th	27·030	12th	79·7	69·5	99·0		74·4		86·7		24·6	105·0	13th	67·3	15th
	Srinagar	5,204	24·683	+·010	24·654	24·823	18th	24·542	6th	72·1	65·1	86·6	+1·6	62·8	−1·2	74·7	+0·2	23·8	95·7	13th	57·1	19th
	Gulmarg	*8,569*	21·783	+·015	21·747	21·865	19th	21·675	6th	63·8	56·3	72·7	+4·1	48·8	−1·6	60·8	+1·3	23·9	85·2	14th	40·8	14th
	Dras	*10,959*	20·733	+·027	20·791	20·835	19th	20·661	15th	59·5	41·0	73·8	−5·1	48·3	+0·7	61·0	−2·2	25·5	82·9	13th	40·4	19th
	Leh	*11,503*	19·664	+·017	19·632	19·776	19th	19·558	6th	59·3‡	48·0‡	77·5‡	+0·3	48·8‡	−1·3	63·2‡	−0·5	28·7	81·2	7th & 14th.	41·7	20th
	Skardu	*7,505*	22·688	−·002	22·668	22·834	18th	22·563	13th	69·2	55·1	86·7	+1·2	62·1	+1·2	74·4	+1·2	24·6	96·1	13th	52·2	16th
	Gilgit	4,890	24·897	+·024	24·810	25·125	18th & 19th.	24·757	7th	79·2	69·4	95·8	−0·1	68·7	−3·1	82·3	−1·6	27·1	104·2	13th	57·7	18th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.
† ,, ,, 26 ,,
‡ ,, ,, 28 ,,

NOTE.—The barometric readings are not reduced to sea level in the case of

B—*continued.*

at 215 stations in India, etc., in July, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind direction. Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
0	4	3	6	2	0	4	6	6	N 30° W	N 76° W	5·0	2·3	+2·7	23	−17	84	− 4	·851	−·001	5·6	−3·3	16	−11·7	13·43	38·31	−24·88	69·64	80·58	−10·94	2·57	Mangalore.
21	0	1	0	0	0	0	2	7	N 48° W	N 11° W	2·9	5·8	−2·9	27	+ 5	92	0	·885	+·047	6·4	−2·4	14	−12·9	7·09	31·38	−24·29	61·72	73·21	−11·49	1·09	Calicut.
11	4	3	6	1	0	1	2	3	N 31° E	N 24° W	4·3	4·6	−0·3	30	− 2	82	− 6	·845	+·009	5·0	−3·2	12	−12·2	4·88	23·51	−18·63	44·58	63·52	−18·94	1·04	Cochin.
9	10	0	0	0	0	0	1	20	N 32 W	N 18° W	6·5	6·6	−0·1	92	+13	86	− 1	·842	+·034	7·4	−1·1	3	−10·6	0·86	7·53	− 6·67	24·99	29·18	− 4·19	0·35	Trivandrum.
0	0	0	0	9	10	12	0	0	S 5° W	S 51° W	10·4	8·8	+1·6	82	+ 7	74	− 3	·835	−·041	2·9	−0·5	0	−0·7	0	0·37	− 0·37	0·85	1·27	− 0·42	0	Pamban.
0	2	0	0	1	0	0	14	14	N 64° W	N 5·° W	5·5	2·8	+2·7	82	+17	60	− 4	·689	−·043	6·1	+0·3?	2	+0·5	2·95	1·85	+ 1·10	5·92	6·02	− 0·10	1·95	Madura.
7	0	0	0	0	0	2	15	7	N 84 W		5·0			68		53	−15	·628	−·123?	2·3	−5·6?	4	−2·2	1·20	3·03	− 1·83	4·58	6·64	− 2·06	0·48	Pudukkottai.
0	0	0	0	0	0	10	21	0	S 76° W	S 77° W	7·2	5·4	+1·8	96	+13	74	+8?	·852	+·089?	3·8	−1·1	3	−0·4	2·19	1·85	+ 0·34	6·35	4·81	+ 1·54	1·60	Negapatam.
0	0	0	0	0	0	13	17	1	S 72° W	S 86° W	7·1	7·2	−0·1	92	+ 5	69	− 4	·692	−·015	3·7	−2·6	4	+1·8	2·41	1·26	+ 1·15	4·58	5·93	− 1·35	1·34	Trichinopoly.
4	1	0	0	0	2	19	5	0	S 52° W	S 49° W	8·6	5·3	+3·3	72	− 7	72	−11	·719	−·023	3·1	−3·0	0	−4·3	0·12	1·52	− 1·40	4·95	5·58	− 0·63	0·01	Coimbatore.
2	0	0	0	0	2	16	9	2	S 61° W	S 25° W	4·9	3·4	+1·5	79	+ 6	71	− 8	·715	−·059	4·3	−2·3	2	−5·3	0·79	3·81	− 3·02	7·89	11·62	− 3·73	0·38	Salem.
2	0	0	0	0	2	26	1	0	S 41° W	S 76° W	7·2	1·8	+5·4	92	+20	66	− 8	·759	−·085	4·7	−1·0	2	−3·7	2·54	3·11	− 0·57	7·97	5·25	+ 2·72	2·35	Cuddalore.
1	0	0	0	0	0	0	30	0	W		5·1			97		66	− 1	·735	+·015?	4·2	−1·6	4	−3·0	0·99	4·80	− 3·91	6·87	9·67	− 2·80	0·34	Vellore.
0	0	0	0	0	0	16	15	0	S 67° W	S 72° W	4·2	5·8	−1·6	92	+ 8	62	− 7	·755	−·047	4·1	−3·0	2	−5·2	0·65	4·02	− 3·37	8·25	6·80	+ 1·45	0·36	Madras.
0	0	0	0	0	0	0	20	11	N 74° W	S 88° W				96	+17	56	−11	·688	−·067	5·0	−2·7	3	−3·5	0·69	3·83	− 3·14	2·47	8·44	− 5·97	0·26	Cuddapah.
0	1	0	0	0	0	6	15	9	N 83° W	S 87° W	9·2	8·7	+0·5	83	− 8	62	− 4	·635	−·014	5·5	−2·4	0	−3·9	0·06	1·80	− 1·74	2·33	5·72	− 3·39	0·06	Bellary.
0	2	0	0	0	0	4	14	11	N 74° W	S 87° W	10·2			86	+14	72	− 3	751	+·010	4·7	−3·1	4	−5·4	2·65	4·98	− 2·33	7·17	8·88	− 1·71	1·30	Kurnool.
0	16	1	0	0	0	0	0	14	N 19° W	N 78° W	4·2	7·3	−3·1	96	+24	53	−13	627	+·105	6·2	−1·9	0	−5·2	0·11	2·92	− 2·81	1·41	1·71	− 0·27	0·09	Nellore.
0	0	0	0	0	0	1	4	15	11	N 81° W	N 69° W	7·5	6·4	+1·1	82	0	70*	−11	·344*	− 052	6·1	−2·3	6	−3·6	3·10	6·23	− 3·13	9·53	11·85	− 2·32	0·80	Masulipatam.
4	0	0	0	0	0	12	14	1	S 72° W	S 74° W	6·4	6·1	+0·3	78	− 5	82	+ 2	·907	+·039	7·3	−0·2	4	−5·9	1·38	6·07	− 4·69	10·01	11·95	− 1·94	0·38	Cocanada.
0	0	0	0	0	2	25	2	2	S 49° W	S 75° W	4·4			89	+ 9	78	0	·870	+·019	6·9	−1·5	9	+1·1	3·00	4·40	− 1·40	9·14	11·41	− 2·27	0·52	Waltair (Vizagapatam).
4	1	0	0	0	2	9	10	5	S 79° W		6·8			65		79		·907		4·2		6	−1·5	7·25	5·98	+ 1·27	17·32	13·55	+ 3·77	2·35	Calingapatam.
0	2	0	0	0	12	15	1	1	S 32° W	S 49° W	7·3	9·3	−2·0	76	+11	80	− 4	·927	0	5·6	+0·5?	5	−5·3	3·36	7·03	− 3·67	16·68	14·87	+ 1·81	1·61	Gopalpur.
																															Bay Islands.
1	0	3	0	2	2	21	2	0	S 39° W					65		88		1·047		7·1		6		1·10	8·47	− 4·37	13·51	17·74	− 4·23	2·46	P. V. Fraser.
1	0	0	0	0	0	13	14	3	S 71° W	S 61° W	7·6	8·5	−0·9	86	+ 5	83	− 4	·887	−·034	7·4	−0·8	13	6·6	7·91	15·75	− 7·84	64·61	50·83	+13·78	1·47	Port Blair.
0	0	0	0	0	1	20	10	0	S 58° W		22·8			92		87	− 3	·921	−·029	7·8	−1·1	9	−8·0	5·75	13·28	− 8·15	37·55	58·15	− 0·60	2·53	Table Island.
																															Kashmir.
22	0	0	1	0	2	1	5	0	S 59° W		1·7			19		59		·595		3·1		6		4·70	9·01	− 4·22	8·94	15·23	− 6·29	1·65	Muzaffarabad.
5	0	2	1	8	4	2	4	5	S 9° W	S 48° E	3·1	2·8	+0·3	20	− 2	70	−14	·541	−·089	2·4	−2·1	4	−1·7	1·69	2·53	− 0·84	2·95	6·49	− 3·54	0·63	Srinagar.
11	4	8	3	1	2	0	0	2	N 41° E		3·8			37		66	−13	·389	−·042	3·6	−1·4	7	−2·6	3·63	4·02	− 0·39	8·12‡	6·49§	+ 1·63	1·30	Gulmarg.
27	0	0	0	1	2	1	0	0	S		6·6			11		55	− 7	·278	−·060	2·1	−1·9	1	−0·6	0·35	0·66	− 0·31	0·40	4·03	− 3·63	0·18	Dras.
25	0	0	1	1	4	0	0	0	S 21° E	S 85° W	3·5	1·5	+2·0	20	−23	47†	− 8	·235†	− 027	3·9	−0·8	0	−1·2	0·07	0·47	− 0·40	0·51	0·86	− 0·75	0·04	Leh.
23	0	0	3	0	2	1	2	0	S 7° E		3·8			9		41	− 9	·278	−·077	3·5	−0·6	1	−0·2	0·44	0·52	− 0·08	0·50	2·00	− 1·50	0·21	Skardu.
30	0	0	0	0	0	0	1	0	0	S 45° W	0·1			3		61	+17	·610	+·182	2·5	−1·4	2	+0·1	0·34	0·55	− 0·21	0·56	1·72	− 1·16	0·15	Gilgit.

hill or plateau stations, the elevations of which exceed 3,206 feet.

* Mean of 26 days.
† ,, ,, 28 ,,
‡ Since 16th May 1918.
§ ,, 1st June.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·188		25·157	25·204	19th	25·074	6th & 14th.	83·5	68·6	101·4		73·5		87·4		27·9	110·1	1.th	60·3	16th
	Quetta	5,502	24·475	+·045	24·435	24·587	19th	24·391	6th	70·8	60·0	94·6	+1·8	60·3	−4·3	77·4	−1·3	34·3	100·5	12th	52·3	4th
	Chaman	4,311	25·452	+·014	25·414	25·595	19th	25·372	6th & 12th.	82·3	70·5	99·9	−0·1	72·7	−2·1	86·3	−1·1	27·2	105·4	12th	67·5	17th
	Kalat	6,630	23·626		23·588	23·723	20th	23·513	14th	67·0	54·9	91·6	−1·6	56·7		74·2		34·9	97·4	11th	51·5	9th & 17th.
	Dalbandin	2,772	26·844		26·807	26·943	19th	26·745	12th	84·5	64·8	108·1*							115·4	13th		
	Pasni		29·630		29·590	29·783	10th	29·479	6th	81·7	77·8	91·2		72·9		82·0		18·3	96·1	16th	69·5	1st
	Panjgur		26·514		26·472	26·615	20th	26·410	6th	77·8	67·0	103·0		72·8		87·9		30·2	110·2	13th	66·8	1st
	Robat		26·647		26·605	26·713	2nd	26·541	6th	86·8	65·0	106·4		72·8		89·6		33·6	113·2	12th	67·3	17th & 18th.
	Seistan (c)		27·813			27·920	18th	27·690	11th	82·5	64·2	102·8		76·8		89·8		26·0	110·2	12th	64·1	13th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·281	+·014	24·257	24·371	1st	24·187	13th	77·4	61·6	90·5	+4·0	65·5	−0·5	78·0	+1·7	25·0	99·6	11th	57·1	17th
	Cherat	*4,256*	25·501	+·016	25·469	25·611	18th	25·371	1·th	81·0	64·7	95·0	+6·1	74·7	+3·7	84·9	+4·9	20·3	104·8	11th & 13th.	60·5	16th
	Drosh (c)					25·060	18th	24·725	13th	80·1	62·7	102·7	+7·0	72·7	+0·3	87·7	+3·6	30·0	106·3	13th	60·4	18th
	Murree	6,333	23·690	−·010	23·658	23·783	19th	23·570	6th	70·1	61·3	80·3	+3·5	65·5	+3·6	72·9	+3·5	14·8	87·1	5th	54·3	15th
	Simla	7,232	22·991	+·022	22·953	23·057	19th	22·873	12th	62·3	59·7	69·0	−0·1	59·3	−0·8	64·2	−0·5	9·7	73·5	4th	52·4	15th
	Chakrata	7,072	23·225		23·185	23·292	19th	23·096	13th	65·1	60·2	72·8	+3·0	60·7	+0·5	66·7	+1·7	12·1	78·3	14th	56·0	16th
	Mukteswar	7,592	22·723	−·004	22·682	22·796	19th	22·596	12th	61·4	58·8	73·2	+2·9	56·8	−1·5	65·0	+0·7	16·4	77·5	29th	53·9	21th
	Darjiling	7,432	22·832	−·028	22·787	22·899	2nd	22·709	12th	61·6	60·6	67·8	+1·5	58·5	+0·8	63·2	+1·1	9·3	75·5	29th	57·3	23rd
	Shillong	4,920	24·976	−·004	24·928	25·041	2nd	24·860	4th	68·8	65·7	74·3	−1·4	61·2	−0·1	69·3	−0·7	10·1	79·9	28th	61·5	23rd
	Cherrapunji	4,309	25·523	+·003	25·474	25·590	19th & 24th.	25·408	12th	67·9	66·9	71·8	−0·4	61·4	−0·9	68·1	−0·7	7·4	80·6	28th	54·1	12th
	Netarhat		26·042		25·991	26·082	14th	25·953	31st	71·8	60·2	82·2		?		?		?	87·7	21st	?	?
	Maymyo	3,548	25·264	−·031	26·209	26·313	9th	26·211	6th & 12th.	69·8	67·7	76·7	−0·5	66·8	+1·2	71·8	+0·3	9·9	80·2	24th	64·4	16th
	Pachmarhi	3,528	25·279	+·051	25·226	25·386	20th	25·154	4th	69·7	67·0	79·4	+2·9	68·1	0	73·7	+1·5	11·3	84·5	21st	66·1	12th & 31st.
	Mount Abu	3,945	25·874	+·061	25·824	25·987	19th	25·773	7th	66·5	65·1	77·5	+2·3	64·5	−1·4	71·0	+0·5	13·0	79·8	5th	62·2	28th
	Mercara	3,781	26·197	+·036	26·130	26·255	15th	26·165	27th & 28th.	64·6	63·6	72·0	+3·0	61·2	−1·0	66·6	+1·0	10·8	76·2	20th & 25th.	59·2	4th
	Ootacamund	*7,327*	23·032	+·042	22·968	23·074	15th & 21st.	22·986	29th	57·5	53·6	64·6	+2·9	50·0	−2·2	57·3	+0·3	14·6	69·4	23rd	46·4	15th
	Kodaikanal	7,698	22·805	+·038	22·740	22·844	15th	22·745	29th	57·5	52·4	66·6	+4·1	51·7	−0·9	59·2	+1·6	15·1	72·3	9th	49·2	5th & 31st.
	Extra India.																					
	Singapore(a)	10	29·848	−·067	29·779	29·923	21st	29·793	6th	83·7		88·2	+0·3	75·4	+0·9	81·8	+0·6	12·8	90·0	13th, 18th & 24th.	73·0	5 days.
	Penang (a)	17	29·824	−·081	29·766	29·914	10th 18th & 24th.	29·700	30th	82·8		89·1	−0·5	72·1	−1·6	80·6	−1·1	17·0	93·0	8th	69·0	10th & 18th.
	Princomalee	99	29·753	+·025	29·780	29·792	14th	29·712	23rd	80·2	74·3	95·5	+4·7?	77·6	+0·1	86·6	+2·4?	17·9	101·2	20th	72·9	4th
	Colombo	24	29·895	+·013	29·845	29·933	9th	29·840	24th	79·8	75·9	86·3	+0·7	78·2	+1·1	82·3	+0·9	8·1	87·7	12th	75·2	15th & 27th.
	Hambantota	64	29·843		29·833	29·888	13th	29·787	23rd	77·7	75·1	87·1		76·3		81·7		10·8	92·8	6th & 22nd.	71·2	26th
	Minicoy	7	29·943	+·045		29·988	20th	29·902	22rd													
	Amini Divi	*13*	29·901	+·038	29·841	29·942	15th	29·855	1st	85·1	77·8	88·3	+2·8	78·9	+1·6	83·6	+2·2	9·4	90·6	19th	75·7	10th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,607	21·294	−·042	24·249	24·417	1st	24·218	11th	65·9	63·9	72·9	−1·7	62·0	+6·9	67·5	+2·1	10·9	81·3	29th	60·0	19th

N.B.—Elevations in italics indicate barometrical determinations.

(a) 9 hrs. observations.

(c) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 29 days.

B—*continued.*

at 215 stations in India, etc., in July, 1918 —*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	25	25	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	54	55
																															Baluchistan.
27	1	1	0	0	0	0	2	0	N 38° W		2·9			7		46		·518		1·2		1		1·11	2·06	−0·95	1·45	3·22	−1·77	0·88	Fort Sandeman.
28	0	1	0	0	2	0	0	0	S 30° E	S 6° W	1·6	2·4	−0·8	3	−4	52	−3	·391	−·129	0·5	−0·6	1	−0·4	0·14	0·68	−0·54	0·14	1·20	−1·06	0·14	Quetta.
1	1	0	1	9	11	5	1	2	S 4° E	S 33° W	4·6	6·9	−2·3	59	−1	55	+25	·614	+·244	0·2	−0·4	0	−0·1	0	0·11	−0·11	0	0·23	−0·23	0	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 21° W	3·2			(a)		47	+ 7	·308	−·073	0		0	−1·4	0	0·69	−0·69	0·69	1·18	−1·09	0	Kalat.
16	0	2	0	2	2	6	3	0	S 36° W		4·1			23		32		·369		0		0		0	0·09	−0·09	0	0·15	−0·15	0	Dalbandin.
5	0	1	5	1	2	9	4	4	S 50° W		6·9			27		34		·908		7·8		0		0·04	0·21	−0·17	0·04	1·67	−1·63	0·02	Pasni.
17	1	2	1	2	2	3	1	2	S 24 W		4·5			7		8		·542		1·1		0		0			0·35			0	Panjgur.
6	1	3	4	0	0	8	9	0	S 7° W		5·5			30		28		·353		0		0		0	0	0	0	0·04	−0·04	0	Robat.
2	0	0	0	0	0	0	0	29	N 45° W		11·1			92		34		·379		0		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm					(a)		41	−16	·368	−·135	1·6	−3·7	4	−3·1	1·37	3·49	−2·12	5·18	8·14	−2·96	0·55	Para Chinar.
8	6	9	0	1	5	1	3	7	N 60° W	S 18° E	4·6	6·6	−2·0	30	−2	43	−25	·431	−·171	1·1	−3·0	1	−4·2	1·43	3·85	−2·42	5·49	6·65	−1·26	1·35	Cherat.
26	0	2	2	0	0	0	1	0	N 59° E		6·4			7		37	−16	·363	−·152	1·4	−0·3	0	−1·6	0·11	0·55	−0·44	1·59	3·27	−1·68	0·09	Drosh.
19	2	0	1	6	1	0	0	2	S 62° E	S 86° E	3·7	4·5	−0·8	13	+8	62	−14	·453	−·060	2·9	−2·0	6	−6·6	3·48	11·89	−8·41	9·60	18·44	−8·84	1·29	Murree.
																34	− 2	·479	−·020	7·0	−1·0	13	−6·4	20·21	16·30	+3·91	32·08	25·72	+6·36	4·35	Simla.
7	0	3	1	0	0	16	3	1	S 54° W	S 48° W	8·1	4·5	−3·6	46	+35	86	− 3	·508	+·004	6·9	+1·0	16	−4·2	7·38	19·85	+2·47	16·55	30·32	−13·77	1·50	Chakrata.
3	1	0	0	0	0	0	27	0	N 88° W		8·2			89		87	− 4	·438	−·063	6·8	−1·4	9	10·0	3·98	12·50	−8·52	12·45	20·91	−8·46	1·72	Mukteswar.
19	0	2	2	1	0	0	5	2	N 47° W	S 83° E	1·8	2·6	−0·8	10	−·0	95	− 1	·518	−·006	9·4	+0·4	25	6	23·26	33·66	−10·40	65·04	66·56	−1·52	3·36	Darjiling.
20	0	0	2	0	2	6	1	0	S 18° W		2·7			23		85	− 2	·597	−·011	8·0	+0·1	24	+4·6	25·89	15·59	+10·30	58·39	43·71	+14·68	5·77	Shillong.
2	1	4	5	3	5	6	4	1	S 8° E		5·3			23		84	− 2	·656	+·015	9·6	+0·5	24	−3·3	136·86	101·77	+35·09	357·29	239·49	+117·80	24·57	Cherrapunji.
2	1	0	1	1	0	0	8	18	N 5° W		2·9			74		76		·553		2·9		11		4·62			27·77			0·86	Notarhat.
20	0	0	0	0	0	11	0	0	S 45° W		2·9			37		90	+ 3	·654	−·005	8·8	+1·8	7	−4·2	6·41	6·02	+0·39	23·69	25·64	−1·95	2·40	Mayuryo.
1	0	0	0	0	0	10	17	3	S 79° W	S 85° W	6·7	7·9	−1·2	86	+11	88	− 2	·623	−·048	8·0	−0·8	9	−12·3	15·01	23·91	−8·90	21·34	33·71	−12·37	4·62	Pachmarhi.
9	0	1	0	0	2	21	7	0	S 56° W	S 55° W	9·5	8·4	+1·1	82	+14	93	0	·609	−·035	9·0	+0·4	4	−13·6	3·65	22·10	−18·45	6·50	28·06	−21·56	1·61	Mount Abu.
0	0	0	0	0	0	10	16	5	S 82° W	N 84° W	5·2	7·2	−2·0	89	− 1	95	− 1	·576	−·015	7·4	−2·5	18	−11·0	8·65	42·79	−34·14	40·29	74·24	−33·95	1·11	Mercara.
7	0	0	0	1	2	4	12	5	S 84° W		4·4			59		79	− 7	·375	−·015	7·3	−0·7	5	−11·5	3·96	9·66	−5·70	14·48	23·69	−9·21	1·14	Ootacamund.
0	0	1	2	4	2	1	15	6	S 88° W		8·3			46		73	− 8	·340	−·018	4·2	−2·8	5	−6·8	2·94	5·00	−2·06	13·90	15·03	−1·13	1·05	Kodaikanal.
																															Extra India.
5	0	0	1	15	5	5	0	0	S 23° E					69						6·7	+1·5	10	+0·7	6·67	6·15	+0·52	27·84	19·44	+8·40	2·48	Singapore.
0	2	14	0	3	0	1	0	11	N 12° E					56								11	+0·9	2·68	6·11	−3·43	15·51	23·15	−7·64	0·39	Penang.
1	0	0	0	0	2	18	10	0	S 57° W	S 45° W	6·9	11·9	−5·0	92	−8	74	− 7	·770	−·092	5·8	+2·7	2	−0·3	0·30	1·92	−1·62	2·45	5·61	−3·16	0·19	Trincomalee.
4	0	0	0	0	0	21	5	1	S 55° W	S 65° W	4·0	6·8	−2·8	79	−4	83	0	·836	−·033	7·5	+0·7	5	−2·9	3·22	5·16	−1·94	21·24	24·00	−2·76	0·87	Colombo.
2	0	0	0	0	0	7	22	0	S 80° W		10·9			89		89		·836	−·015	3·7		4		2·01	1·40	+1·21	8·18	6·99	+1·09	0·80	Hambantota.
0	1	20	0	0	0	0	20	10	N 73° W	N 87° W	5·7	12·4	−6·7	90	+3					3·9	−2·5	4	−9·6	1·01	8·73	−7·69	25·56	25·57	−0·01	0·33	Minicoy.
9	0	0	0	0	0	6	15	10	N 83° W		10·8			84		77	− 6	·877	−·018	6·0	−1·7	6	−9·3	1·39	12·08	−10·69	26·71	29·01	−2·30	0·25	Amini Divi.
																									2·51			3·95			Gvantse.
																									4·15			10·49			Pharijong.
30	0	1	0	0	0	0	0	0	N 45° E		0·4			3		90	− 2	·575	−·026	4·8	−1·9	29	+1·3	26·48	25·56	+0·92	60·48	65·32	−4·84	2·17	Gangtok.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs

Number of Sub-division.	Station.	Height of bar-ometern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (*c*)	15,100																				
	Kashgar (*c*) (*e*)	4,255	25·348	—·062		25·545	19th	25·250	6th & 11th.	74·5	70·4	93·3	+1·9	66·2	—1·6	79·9	+0·1	27·6	101·3	5th & 22nd.	55·3	18th
	Kabul (*c*)		23·938	—·107		24·090	18th	23·940	6th & 14th.	74·7	62·9	95·5	+2·3	69·1	+8·5	82·3	+5·4	26·4	102·9	30th	55·8	2nd
	Meshed	3,104																				
	Jask	13	29·565	+·049	29·531	29·716	20th	29·430	6th	86·6	78·3	96·9	+0·9	83·2	—2·3	90·1	—0·7	13·7	106·5	17th	78·1	3rd
	Muscat	20	29·554	+·052	29·523	29·715	20th	29·431	7th	93·1	84·1*	99·6	+6·4	89·2	+1·7	94·4	—4·1*	10·4	112·5	16th	80·8	21st
	Bushire	14	29·549	+·072	29·524	29·639	21st	29·468	6th	90·1	80·7	95·0	—0·3	83·7	—0·6	89·3	—0·5	11·3	100·1	31st	77·1	22nd
	Busrah	25	29·567	+·042	29·561	29·676	21st	29·488	6th	89·8	72·4	107·2	+3·9	78·3	—3·5	92·8	+0·2	28·9	116·0	3rd	72·6	12th
	Kerman (*c*)																					
	Ispahan (*c*)†	*5,817*	24·185	—·055		24·380	2nd	24·080	27th	76·4	60·6	97·3	—0·5	67·5‡	+1·1‡	82·5‡	+0·3	29·8	102·4	11th	61·7	6th
	Tehran (*c*)	*4,002*	25·619	—·081		25·740	3rd	25·510	8th	81·5	63·1	98·1	—0·8	73·0	+2·0	85·5	+0·6	25·1	105·8	10th	67·2	12th
	Baghdad	127	29·491			29·629	20th	29·404	12th	84·3	63·1	109·2	—0·2	80·2	+0·6	94·7	+0·2	29·0	117·2	2nd	71·6	13th
	Aden	94	29·663	+·042	29·688	29·741	19th	29·598	31st	87·2	80·5	94·5	+1·1	84·9	+2·4	89·7	+1·7	9·6	96·8	16th	80·4	28th
	Zanzibar	72	30·121	+·029	30·120	30·163	15th	30·059	1st	73·9	70·9	79·6	—1·0	72·4	—0·4	76·0	—0·7	7·2	81·4	23th	71·0	25th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations o which exceed 3,200 feet.

* Mean of 15 days. ‡ Mean of 28 days. † 7 hrs. observations..

(*c*) Aneroid. (*e*) Mean of 29 days

B—*concluded.*

at 215 stations in India, etc., in July, 1918—*concluded.*

WIND DIRECTION. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Extra India—*concld.*
																															Gartok.
17	0	1	0	2	0	1	1	7	N 59° W	N 52° W	2·2	3·6	−1·4	21	+14	74	+28	·687	+·251	3·9	+1·3	2	+1·3	0·51	0·22	+0·29	0·51	1·20	−0·69	0·36	Kashgar.
0	2	1	0	0	0	7	14	7	N 83° W	S 68° E				74	+71	53	+ 9	·458	+·031	1·9	+1·6	0	−0·5	0·01	0·13	−0·12	0·48	1·12	−0·64	0·01	Kabul.
																															Meshed.
1	1	1	16	1	0	0	4	7	N 55° E	S 66° E	10·4	11·1	−0·7	37	−20	69	− 5	·860	−·187	2·5	+0·5	0	0	0	0·01	−0·01	0	0·08	−0·08	0	Jask.
5	2	0	11	1	0	0	1	11	N 18° E	N 72° E	3·0	3·4	−0·4	30	−16	79*	+ 4	1·069*	?	1·0	−2·2	0	−0·1	0	0·02	−0·02	0	0·16	−0·16	0	Muscat.
15	2	0	0	4	2	1	5	2	S 61° W	N 37° W	5·3	6·2	−0·9	13	−31	65	− 2	·918	−·025	0·5	−0·2	0	0	0	0	0	0·05	0·02	+0·03	0	Bushire.
1	9	0	2	0	0	1	23	6	N 85° W		7·3			81		40		·564		0·2		0	0	0	0	0	0	0·33	−0·33	0	Basrah.
																															Kermán.
27	1	0	0	0	0	1	1	1	N 63° W	N 49° W	1·2	2·6	−1·4	6	−26	49	−12	·367	−·169	0·2	−0·5	0	−0·1	0	0·02	−0·02	0·16	0·28	−0·12	0	Ispahan.
19	1	1	2	1	1	6	0	0	S 14° W	S 44° W	3·7	1·7	+2·0	13	− 8	53	+19	·561	+·189	0·8	−0·1	0	−0·6	0	0·17	−0·17	0·43	0·74	−0·31	0	Tehran.
1	6	2	0	0	0	0	2	20	N 34° W	N 11° W	10·4	3·4	+7·0	82	+ 8	25		·290		0		0	0	0	0	0	0·18	0·21	−0·03	0	Baghdad.
20	5	6	0	7	0	3	0	0	N 73° E	S 12° W	5·9	7·7	−1·8	23	−29	74	+ 3	·949	+·063	2·5	−0·9	0	0	0	0·03	−0·03	0	0·21	−0·21	0	Aden.
3	0	0	0	0	14	14	0	0	S 23° W	S 15° W	5·9	6·0	−0·1	84	− 6	85	− 1	·712	−·014	7·2	+1·2	10	+4·2	4·86	2·45	+2·41	20·79	15·20	+5·59	1·82	Zanzibar.

* Mean of 15 days.

Table C.—Abstract of observations taken at 8 hrs. at 62 fourth and fifth class stations in India, etc., in July, 1918.

Table

Abstract of observations taken at 8 hrs. at 62 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	80·1	78·0	89·8	0	76·5	+3·7	83·1	+1·9	13·3	96·3	28th	73·7	24th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·8	77·5	90·4	+0·1	75·3	−0·3	82·9	−0·1	15·1	96·4	29th	70·6	13th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	79·5	78·5	91·4	+2·1	74·3	−1·2	82·9	+0·5	17·1	105·6	28th	71·1	21st, 22nd & 23rd.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	79·0	77·3	90·7	+1·8	75·3	+0·8	83·3	+1·3	14·9	99·9	29th	72·6	24th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	79·4	77·6	85·7	−0·3	76·0	−0·1	82·3	−0·2	12·7	97·8	29th	72·0	13th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	79·7	75·4	88·3	−0·3	74·6	...	81·5	...	13·7	95·9	28th	72·2	24th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·0	77·7	87·7	−2·1	75·7	−0·4	81·7	−1·3	12·0	94·8	3rd	68·6	31st	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	80·1	77·6	88·3	−1·6	76·1	−0·5	82·2	−1·1	12·2	94·7	29th	73·0	14th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	80·9*	77·8*	89·5*	...	76·3*	...	82·7*	...	13·5	96·7	9th	74·2	15th & 16th.	...	...	...	...	...	...	...	...	...	...	...
	Messa	82·9	78·1	91·8	−1·0	75·6	−0·1	83·7	−0·5	16·2	97·1	2nd	72·3	12th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	77·1	75·8	87·9	−0·8	73·3	−1·9	80·6	−1·3	14·6	96·7	28th	69·3	30th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·6	78·3	88·2	−0·1	75·7	−1·3	81·9	−0·7	12·5	91·6	28th	72·9	18th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	84·9	81·3	89·7	+1·4	78·1	+0·8	83·9	+1·1	11·6	94·3	19th & 21st.	74·5	23rd	...	...	...	...	...	...	...	...	...	...	...
	Pabna	83·9	80·4	90·8	−0·9	78·1	+2·4	84·5	+0·7	12·7	94·8	5th	75·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	78·3	76·7	90·5	−0·8	72·9	−2·0	81·7	−1·4	17·6	99·3	29th	63·0	2nd	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·5	77·0	88·3	−0·7	73·2	−1·9	80·7	−1·3	15·1	95·1	3rd & 29th.	70·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·5	77·4	87·4	−1·1	74·4	−0·6	80·9	−0·9	13·0	96·1	29th	73·0	5 days	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.

C.

and fifth class stations in India, etc., in July, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st Ma. to 31st July 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during a month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	91	- 4	·932	— ·006	...	...	25	+ 5·2	31·07	19·87	+11·20	68·51	44·09	+24·42	4·10	Bishnath.
...	...	...	...	...	86	— 7	·897	— ·056	...	...	23	+ 2·5	30·07	20·51	+ 9·56	60·42	44·23	+16·19	4·36	Borjuli.
...	...	...	...	...	95	+ 4	·965	+ ·043	...	...	25	+ 1·8	28·63	18·94	+ 9·69	62·95	61·04	+ 1·91	5·27	Chandkhira.
...	...	...	...	...	92	— 2	·914	— ·017	...	...	19	— 4·0	18·67	19·51	— 0·84	50·34	44·97	+ 5·37	2·65	Doom Dooma.
...	...	...	...	...	92	0	·927	+ ·013	...	...	31	— 1·3	21·58	20·87	+ 0·71	49·72	47·91	+ 1·81	5·40	Dikom.
...	...	...	...	...	94	+ 3	·951	+ ·004	...	...	19	+ 1·0	15·49	13·57	+ 1·92	39·32	32·22	+ 7·10	2·66	Golaghat.
...	...	...	...	...	89	— 1	·914	— ·001	...	...	25	+ 1·7	32·93	22·28	+10·66	75·73	62·56	+13·17	3·93	Hailakandi.
...	...	...	...	...	83	0	·911	— ·029	...	...	20	+ 2·3	19·11	15·55	+ 3·56	48·18	36·92	+11·26	3·41	Jorebat.
...	...	...	...	...	86*	...	·905*	...	...	...	19	+ 8·5	8·26	7·96	+ 0·30	26·47	22·98	+ 3·49	1·66	Lumding.
...	...	...	...	...	80	— 5	·901	— ·042	...	..	19	— 2·5	14·70	18·39	— 4·69	44·07	39·30	+ 4·77	3·88	Messa.
...	...	...	...	...	94	— 1	·877	+ ·006	...	...	21	+ 4·0	25·28	19·41	+ 5·87	70·48	44·00	+26·48	4·99	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	12	— 6·7	14·65	15·27	— 0·62	54·81	45·64	+ 9·17	2·62	Comilla.
...	...	...	...	...	86	— 2	·919	— ·037	...	...	18	— 0·3	13·39	12·32	+ 0·07	47·28	44·22	+ 3·06	2·40	Brahmanbaria.
...	...	...	...	...	..	...	...	...	...	...	16	— 1·3	13·40	12·87	+ 0·53	47·70	35·43	+12·27	3·91	Faridpur.
...	...	...	...	...	85	— 2	1·017	+ ·044	...	...	15	— 1·3	11·59	11·13	+ 0·46	37·83	33·15	+ 4·68	2·43	Goalundo.
...	...	...	...	...	86	— 1	·993	+ ·020	...	...	13	— 3·0	3·69	12·95	— 9·26	26·92	32·41	— 5·49	0·73	Pabna.
...	...	...	...	...	...	...	...	...	...	...	12	— 3·4	9·33	11·62	— 2·29	34·77	32·59	+ 2·18	2·66	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	12	— 3·1	7·38	10·89	— 3·51	35·08	27·40	+ 7·68	3·19	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	9	— 5·7	7·15	10·58	— 3·43	39·90	24·94	+14·96	2·67	Malda.
...	...	...	...	...	...	...	...	...	...	...	17	+ 2·1	28·19	14·56	+13·63	75·33	43·10	+32·23	4·23	Rangpur.
...	...	...	...	...	93	— 2	·899	—·053	...	...	26	+ 1·2	29·29	40·72	—11·43	83·37	83·95	— 0·58	4·40	Dam Dim.
...	...	...	...	...	84	— 3	·886	—·057	...	...	24	+ 1·5	37·36	35·62	+ 1·74	106·21	75·81	+30·40	5·19	Kalchini.
...	...	...	...	...	87	— 3	·893	— ·011	...	...	22	— 4·2	30·21	39·59	— 9·38	80·68	84·17	— 1·49	4·98	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	20	+ 0·6	49·39	29·16	+20·23	100·96	76·53	+24·43	5·82	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	..	10	— 6·0	5·35	11·27	— 5·91	32·92	29·00	+ 3·92	1·17	Krishnagar.
...	...	...	...	...		...	...	...	...	...	9	— 6·5	4·57	12·90	— 8·33	25·35	28·03	— 1·68	0·96	Bankura.
...	...	...	...	...	...	...	...	...	...	...	6	—10·5	2·25	12·78	—10·03	18·27	26·00	— 7·73	0·97	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	7	—11·4	4·21	12·78	— 8·57	17·56	26·88	— 6·32	2·25	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	11	— 4·1	6·48	12·23	— 5·75	16·63	23·83	— 7·20	1·27	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	10	— 4·5	12·56	12·39	+ 0·17	24·89	23·13	+ 1·67	3·83	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	15	+ 0·7	12·08	14·74	— 2·66	32·31	26·70	+ 5·61	2·38	Motihari.
...	...	...	...	...	...	...	...	...	...	...	7	— 7·0	5·57	11·48	— 5·91	19·28	19·29	— 0·01	3·50	Chapra.
...	...	...	...	...	...	...	...	...	...	...	7	— 7·6	4·52	12·22	— 7·70	13·34	20·20	— 6·86	2·64	Arrah.
...	...	...	...	...	...	...	...	...	...	...	5	— 8·9	5·13	10·42	— 5·29	11·38	17·20	— 5·82	2·66	Dehri.

* Mean of 29 days.

Table

Abstract of observations taken at 8 hrs. at 62 fourth

Number of subdivision.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	76·9	69·9	86·2	...	72·5	...	79·4	...	13·7	92·8	25th & 27th.	69·4	6th	9	0	0	0	0	0	1	8	13	N 63° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	78·8	76·1	95·5	...	75·1	...	85·3	...	20·4	99·8	25th	67·8	29th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	85·2	79·2	98·1	...	78·7	...	88·4	...	19·4	107·0	24th	72·5	26th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	72·7	69·5	79·2	...	68·0	...	73·6	...	11·2	85·5	19th	64·8	31st	...	...	.	...	..	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	88·1	77·8	99·3	...	82·3	...	90·8	...	17·0	106·6	4th	79·3	8th	0	6	12	1	4	3	3	1	1	N 52° E	...
	Sonamarg	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	Kargil	70·1	55·4	87·2	...	50·5	...	68·9	...	36·7	95·5	12th	41·3	19th	12	14	1	0	0	0	0	0	4	N 7° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	77·3	75·4	85·8	−1·8	73·2	−0·9	79·5	−1·3	12·6	94·5	29th & 30th.	71·5	16th	...	...	...	...	..	...	...	...	..	...	...
	Kurseong	65·7	65·3	73·5	0	64·9	−0·1	69·2	−0·1	8·6	77·8	28th	62·7	18th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	..	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	79·2	+1·9	57·7	−0·2	68·4	+0·9	21·5	89·8	13th	51·0	16th	9	0	0	0	1	7	14	0	0	S 27° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	94·7	−3·5	57·2	−6·1	75·9	−4·8	37·5	100·1	13th	53·1	20th	...	...	...	...	...	..	...	..	...	...	...

C—*continued.*

and fifth class stations in India, etc., in July, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	1	−9·0	0·92	9·16	−8·24	1·52	12·88	−11·36	0·88	Meerut.
...	...	...	...	...	...	...	...	...	..	...	10	−10·7	9·36	25·52	−16·06	20·21	35·58	−15·37	2·87	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	3	−6·8	1·96	7·73	−5·77	4·89	11·48	−6·08	1·30	Udaipur.
																				XII.—Central Provinces.
4·4	...	...	65	...	70	...	·647	...	6·1	...	10	...	6·38	10·55	−4·17	19·32	17·23	+2·09	1·78	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	7	−3·7	5·59	7·32	−1·73	12·80	13·87	−1·07	1·77	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	−0·5	0	0·41	−0·41	2·51	2·45	+0·06	0	Tinnevelly.
...	...	...	...	...	84	...	·853	...	6·5	...	2	−1·8	0·82	2·63	−1·81	4·48	6·56	−2·12	0·55	Anantapur.
...	...	...	...	...	76	...	·921	...	2·3	...	10	+1·3	3·99	5·67	−1·68	9·29	11·81	−2·52	0·92	Guntur.
...	...	...	...	...	86	...	·695	...	...	...	18	...	10·70	...	...	39·07	...	...	3·70	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	12	−1·6	3·99	9·05	−5·06	35·13	35·09	+0·04	0·59	Car Nicobar.
																				Kashmir.
...	...	...	36	...	63	...	·834	...	2·7	...	5	−5·3	3·91	12·25	−8·34	5·29	15·74	−10·45	1·65	Jammu.
...	...	...	...	...	...	...	...	...	...	...	8	−1·9	4·54	3·81	+0·73	6·50	11·63	−5·13	1·15	Sonamarg.
...	...	...	55	...	39	...	·288	...	2·4	...	0	−0·8	0·09	0·16	−0·07	0·69	1·40	−1·31	0·03	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	3	−1·2	2·04	2·36	−0·32	2·04	3·58	−1·54	1·44	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	92	+5	·855	−·016	...	...	25	+2·0	31·55	33·20	−1·65	88·17	70·35	+14·72	4·80	Panighatta.
...	...	...	...	...	98	+5	·690	+·052	...	...	27	−0·8	25·01	43·81	−18·80	89·48	87·07	+2·41	3·48	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	27	...	39·18	40·92	−1·74	103·48	85·24	+18·24	2·50	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	25	...	9·64	10·33	−0·69	26·30	25·20	+1·10	1·12	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	..	34·42	...	...	82·52	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	11	...	8·35	...	...	21·68	...	..	2·48	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	14	−8·1	11·47	29·25	−17·78	21·02	40·94	−19·92	2·31	Mussooree.
...	...	...	65	...	...	...	...	...	5·0	−0·7	0	−2·3	0·07	0·65	−0·58	0·24	1·79	−1·55	0·04	Poo.
...	...	...	...	...	...	...	...	...	...	...	3	−1·3	2·55	1·34	+1·21	2·87	4·85	−1·98	2·02	Kailang.
...	...	...	...	...	...	...	...	...	0	...	0	−0·2	0	0·11	−0·11	0	0·31	−0·31	0	Pistio.

Table

Abstract of observations taken at 8 hrs. at 62 fourth

Number of sub-division.	STATION.	TEMPERATURE OF AIR.												WIND DIRECTION.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	56·0	54·2	65·2	...	50·3	...	57·8	...	14·9	70·0	28th	45·7	13th	...	...	...	...	...	...	...	...	..	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	95·5	74·2	112·6	...	81·5	...	97·1	...	31·1	119·0	1st	77·0	4 days	0	11	0	0	0	0	3	0	17	N 34° W	...
	Kirmanshah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amarah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	88·3	75·4	103·1	...	76·6	...	89·9	...	26·5	110·0	19th	71·3	21st	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shahroban . . .	89·4	73·9	110·6	...	71·0	...	90·8	...	39·6	118·5	3rd	64·0	11th, 12th & 21st.	...	...	...	...	...	...	...	...	...	...	...

C—*concluded.*

and fifth class stations in India, etc., in July, 1918—*concluded.*

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st July 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	90	...	·406	...	6·0	...	12	...	5·44	5·65	−0·21	16·36	15·97	+0·39	1·15	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	14	+5·9	3·38	3·60	−0·22	16·17	25·74	−9·57	0·40	Pemba.
...	...	...	82	...	38	...	·548	...	...	...	0	...	0	...	...	0·06	...	...	0	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amarah.
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
4·6	...	...	...	...	54	...	·691	...	0·1	...	0	...	0	...	...	0	...	...	0	Kurna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mohammerah.
...	...	...	...	...	45	...	·629	...	0	...	0	...	0	...	...	0·36	...	...	0	Shahroban.

SGPI-21-4I-DGC-13-2-23-325.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per	hour	...	one	feather	added to the	wind	arrow.			
,, ,,	2 to 5	,,	,,	...	two	feathers	,,	,,	,,	,,		
,, ,,	5 to 10	,,	,,	...	three	,,	,,	,,	,,	,,		
,, ,,	10 to 20	,,	,,	...	four	,,	,,	,,	,,	,,		
over	20	,,	,,	...	five	,,	,,	,,	,,	,,		

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020′ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

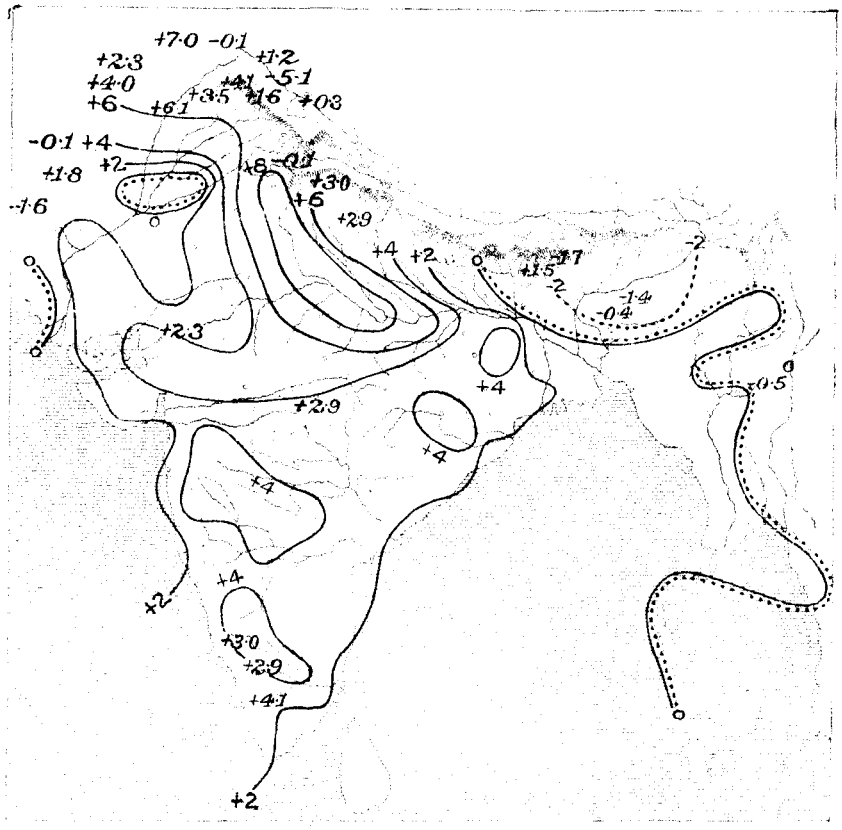


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

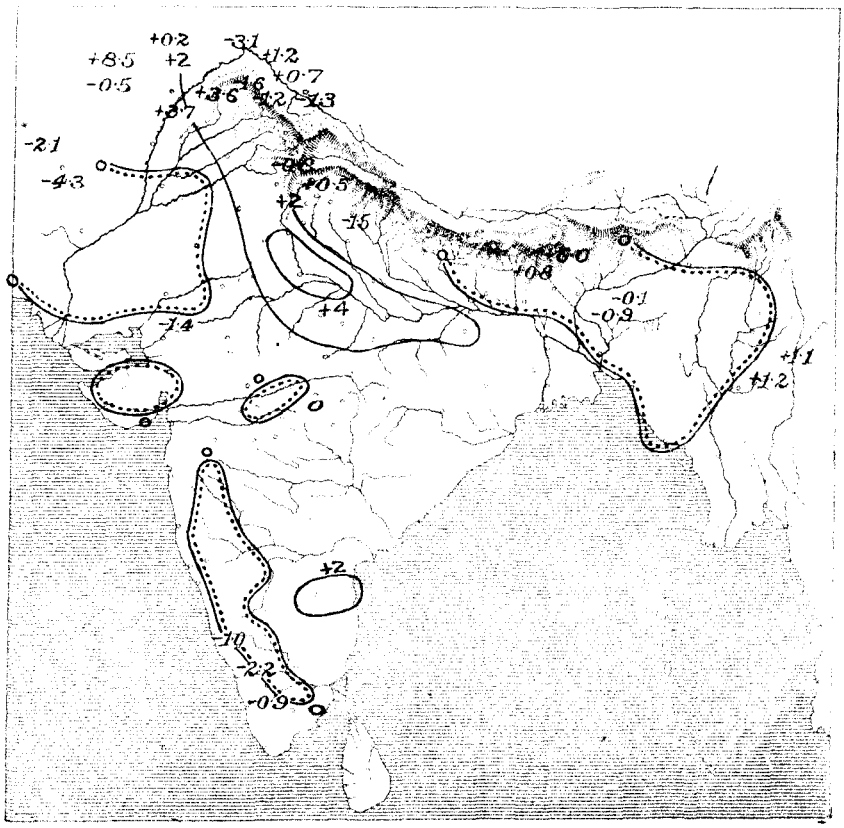


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

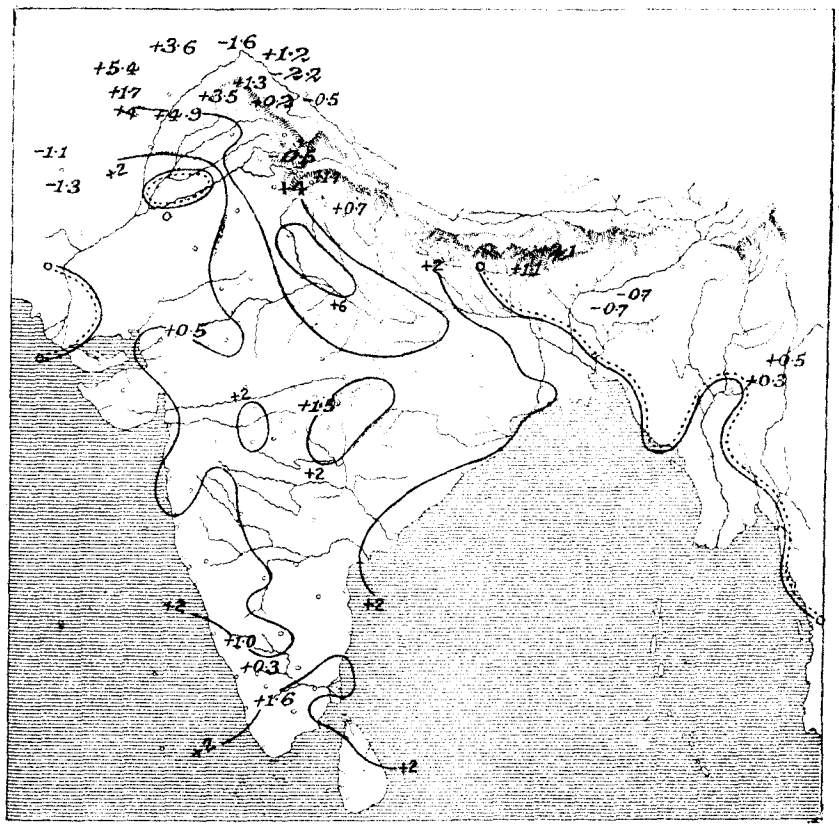


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

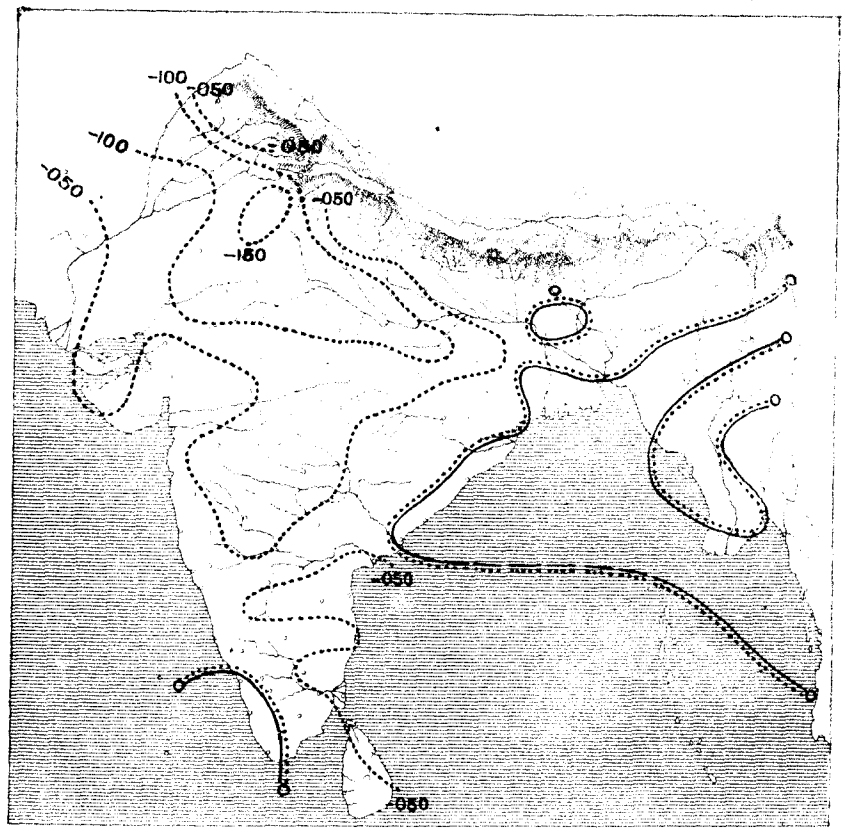


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

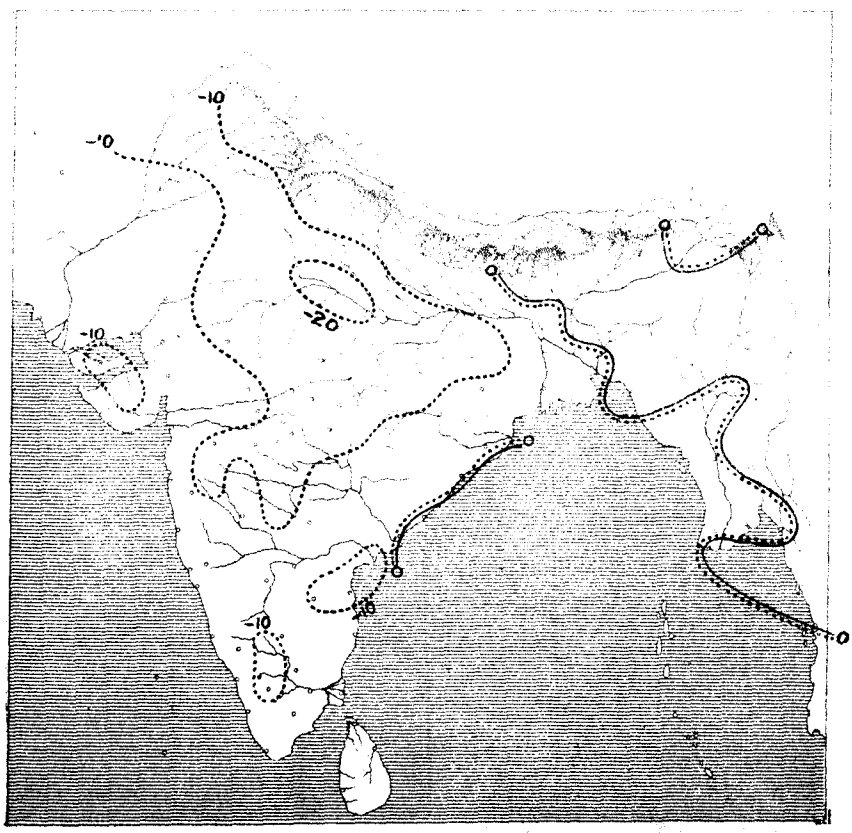


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

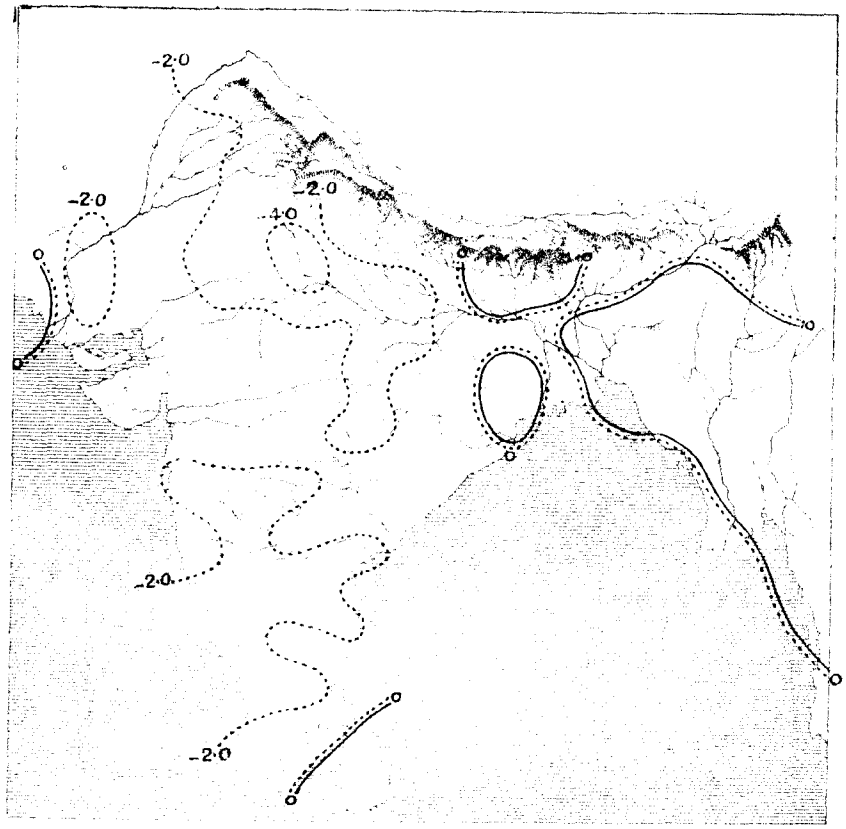
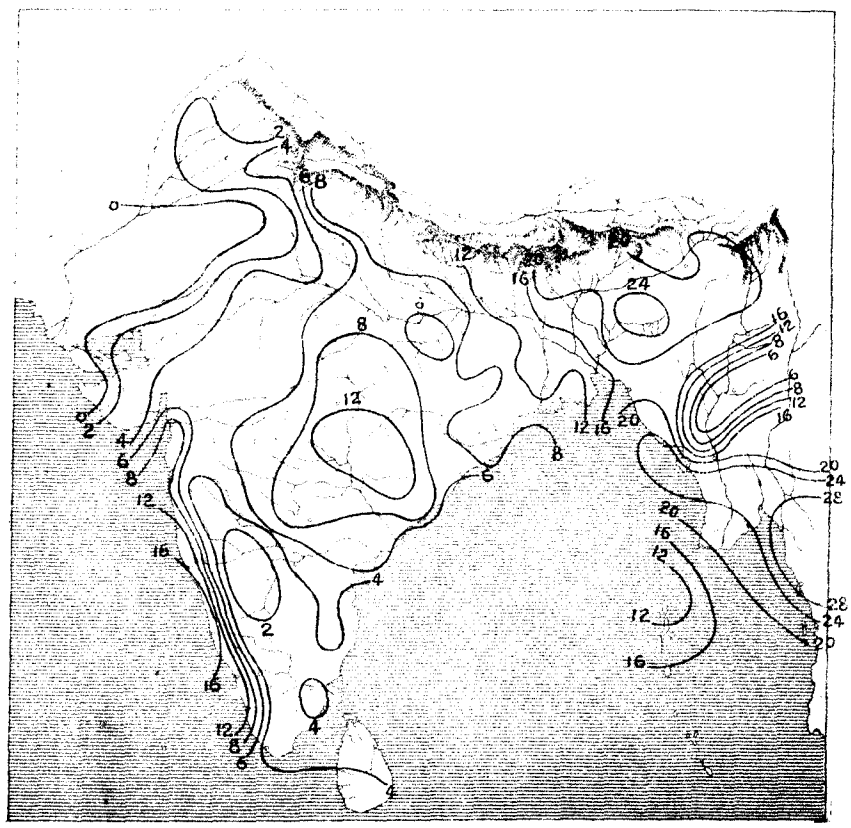
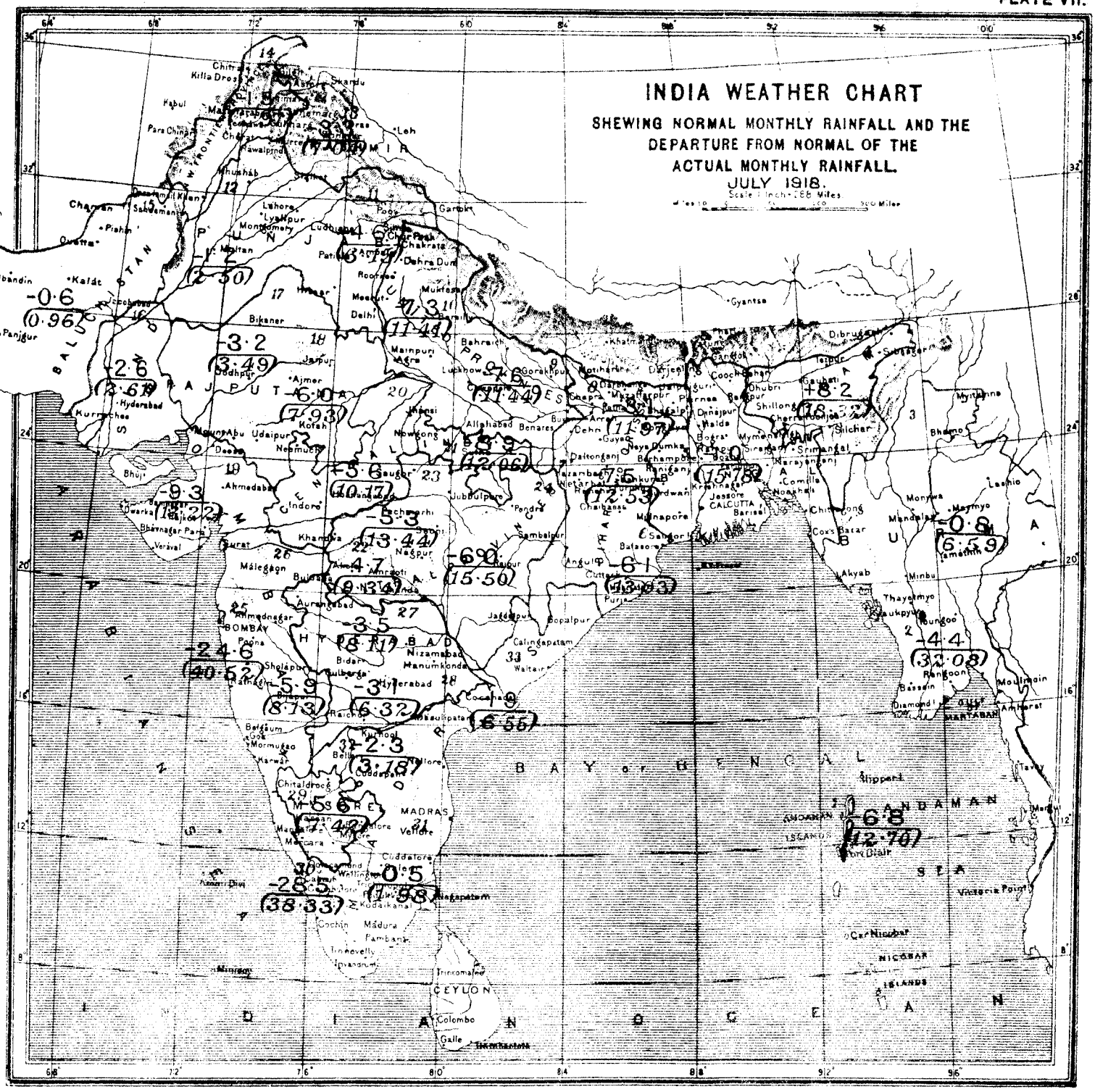


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

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THE GOVERNMENT OF INDIA.

CALCUTTA, AUGUST, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of August, 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments.

The brief notes on solar, seismic and magnetic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The Arabian Sea monsoon continued weak in the first half of the month during which period it hardly extended into north-west India. An improvement occurred on the 15th and was more or less maintained till nearly the end of the month. The month's fall over the field of the Arabian Sea current was mostly in defect though the deficiency was somewhat smaller than in July. The Bay current was, on the other hand, active during nearly the whole month and gave abundant rain in Burma and the greater part of north-east India.

Two depresssions materially affected the rainfall of the month; one passed into Orissa from the Bay in the middle of the month and the other formed in Bihar in the last week and passed westwards as far as Baluchistan.

Skies were less clouded than usual in parts of north-west India as well as in Assam and Mysore and were more clouded in Bengal, Bihar and Orissa and Hyderabad. Humidity was in defect in the United Provinces and north-west and central India. Maximum temperature was above the average in north-west India.

Barometric pressure averaged over the plains of India was lower than usual by ·011.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—No observations were possible on two days in the month. The prominence record was complete on twelve days and was obtained in unsatisfactory weather on fourteen days.

Sunspots.—Thirty-two new groups were recorded in the month with a daily average of 5·2. The average life of a spot was 4·5 days. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North	7	6	2	12°·7	5° & 23°
South	6	8	2	13°·2	6° & 22°
Equator . . .	1	...	...	...	...

Prominences.—Forty-three prominences one minute or more in height, 2 metallic, and 2 eruptive prominences were recorded in the month. The highest was photographed near the equator on the east limb on the 29th and attained a height of 250″.

Magnetic disturbances.—A "great" disturbance was recorded on the 15th and 16th and "moderate" disturbances on the 2nd, 3rd, 5th to 9th and 25th to 28th.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°\ 28'\ 00''$; $h = 2{,}343$ m. Subsoil *Rock.*

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	C	$\frac{r}{T_0^2}$
AN:				
AE:	9·76	17·7	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Aug. 5th	e P	2 38 06	...	...	...	...	...	Widening of line.
	F	2 54 24	...	...	...	...	...	
„ 8th	e P	10 38 12	...	...	...	...	...	Do.
	F	10 59 36	...	...	...	...	...	
„ 12th	e P	5 16 48	...	...	..	...	...	Do.
	F	5 20 54	...	...	...	...	...	
Aug. 14th	e P	14 44 24	...	...	...	...	...	Do.
	F	14 56 42	...	...	...	...	...	
„ 14th	e P	17 25 42	...	...	...	...	...	Do.
	F	17 28 12	...	...	...	...	...	
„ 14th	e P	18 35 06	...	...	...	...	...	Do.
	F	18 54 42	...	...	...	...	...	
„ 15th	i P	12 26 00	...	...	...	...	...	
	e L	12 32 18	...	...	...	...	...	*
	M	12 53 00	..	...	± 1300	...	...	
	F	18 56 36	...	...	...	...	...	
Aug. 16th	e P	3 41 12	...	...	...	...	...	
	e L	3 55 30	...	...	...	...	...	
	M	3 58 24	...	...	60	...	...	
	F	4 13 06	...	...	...	...	...	
„ 16th	e P	8 51 24	...	...	...	...	...	
	e L	8 55 18	...	...	...	...	...	
	M	9 11 54	...	...	30	...	...	
	F	9 16 30	...	...	...	...	...	
„ 17th	e P	8 18 00	...	...	...	...	...	Widening of line.
	F	8 27 12	...	...	...	...	...	
„ 23rd	e P	6 25 36	...	...	...	...	...	Do.
	F	6 33 18	...	...	...	...	...	
„ 23rd	e P	6 59 24	...	...	50	...	...	A single beadlike record.
	F	7 01 24	...	...	...	...	...	
„ 23rd	e P	7 32 00	...	...	...	...	...	
	e L	7 38 42	...	...	...	...	...	
	M	7 44 18	...	...	50	...	...	
	F	8 00 24	...	...	...	...	...	
„ 31st	P	22 14 42	...	...	...	...	...	Widening of line.
		22 27 12	...	...	...	...	...	

*There was a lull between 16½ h. and 17½h. At 12 h. 56·3 m. the boom had moved east 8·5 m.m. but instead of oscillating in the usual way moved westwards very slowly — 2 m.m. in a minute and a half. The usual oscillations were resumed at 12 h. 57·8 m.

S. SITARAMAYYA,
Officiating Assistant Director.

BOMBAY OBSERVATORY.

Alibagh magnetic record.

4. During the month of August, 1918, the traces showed 11 calm days, 19 days of small and one day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 13th, 18th, 19th and 23rd.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	C	25	S
2	S	10	S	18	C	26	S
3	S	11	S	19	C	27	S
4	C	12	S	20	C	28	C
5	S	13	C	21	C	29	C
6	S	14	S	22	S	30	C
7	S	15	S	23	C	31	S
8	S	16	M	24	S		

C=calm ; S=small ; M=moderate ; G=great ; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month are as follows :—

Easterly declination	0° 27′ 44″.
Horizontal force	0·36886 C.G.S. unit.
Vertical force	0·16995 C.G.S. „
Inclination	24° 44′·3.
Horizontal force range . . .	0·00048 C.G.S. unit.
„ „ summed range . .	0·00335 C.G.S. „
Declination range	5′·7.
„ summed range . .	24′·6.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of diurnal inequality.)

Seismic records.

$\phi = 18° 53′ 36″$; $\lambda = 72° 48′ 56″$; $h = 11$ m. Subsoil *Trap.*

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN :				
AE :	20	32		
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Aug. 15th	P	12 26 58	...	...	...	...	...	
	S	12 34 30	...	...	...	...	...	
	M	... ...	...	...	...	...	...	Amplitude too large, stopped by guards.
„ „	P	17 39 32	...	...	...	...	...	
	M	18 6 0	...	...	55	...	...	

Five more small disturbances have been recorded at about :—

16 d. 3½ h., 16 d. 8¾ h., 17 d. 7¾ h., 23 d. 6¼ h., 23 d. 7½ h., but the movements are small and it is difficult to locate phases exactly.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32′$ N ; $\lambda = 88° 20′$ E ; $h = 6·4$ m. Subsoil *Alluvial.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN :	29	18	1	
AE :	29	40	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h. m. s.						
Aug. 15th	P	12 25 30	5	...	...	...	...	
	S	12 31 42	9	...	...	...	...	
	L	12 37 54	15	...	...	...	...	
	M	12 49 54	?	...	...	...	...	
	F	13 45 48	...	...	...	...	...	
„ „	P	17 37 42	?	...	...	...	..	
	S	17 43 42	?	...	...	...	...	
	F	18 1 48	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31°\ 6'$ N; $\lambda = 77°\ 11'$ E; $h = 2{\cdot}1$ km. Subsoil *Rock*.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance △ (Km.).	Remarks.
1918.		h. m. s.						
Aug. 15th	P	12 27 12	...	...	...	...	...	
	S	12 34 36	...	...	...	...	...	Times of long waves and period could not be given as pendulum was very near one of the stops and began to strike against at 12 hours 35 minutes.
	M	?	...	>2893	...	...	...	Pendulum striking against both stops from 12 hours 53 minutes 12 seconds to 12 hours 53 minutes 30 seconds.
	F	16 11 12	...	...	...	...	...	
„ 15th	P	17 39 24	...	...	...	...	...	
	S	17 46 30	...	...	...	...	...	
	M	17 59 0	...	107	...	...	...	
	F	18 26 0	...	...	...	...	...	
„ 16th	e	3 42 12	..	...	...	...	...	
	F	4 25 36	...	...	...	...	...	Tremors.
„ 16th	e	8 51 30	...	...	...	...	...	
	M	9 11 18	...	25	...	...	...	
	F	9 18 36	...	...	...	...	...	Tremors.
„ 17th	P	7 51 36	...	...	...	...	...	
	M	7 55 36	...	21	...	...	...	
	F	8 36 6	...	...	...	...	...	Tremors.
„ 23rd	e P	6 24 12	...	...	...	...	...	
	M	7 0 30	...	36	...	...	...	
	M 1	7 34 36	...	...	36	...	...	
	F	7 59 6	...	...	...	...	...	Tremors.

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
	1918.	h. m.	sec.			
Mota Khuntavada (Bhavnagar, Kathiawar Agency)	Aug. 11th.	17 30	...	...	1	
Shillong . .	„ 13th	4 12	1	3	1	
Dedan (Kathiawar Agency) . .	„ 13th	5 00	...	...	1	
Cherat . . .	Aug. 13th	18 30	1	3	1	
„ . .	„ 14th	8 50	2	3	1	
Gauhati . .	„ 19th	21 57	15	3	1	
Shillong . .	„ 19th	22 02	2	4	1	
Salonah (District Nowgong, Assam)	„ 19th	22 03	6	6	1	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was in excess, rainfall in defect, and wind directions about normal at all the three stations, but the wind velocity was very high at Seychelles.

TABLE 8.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	+·041	+·058	+·039
Actual mean wind direction . .	S 59 E	S 14 W	S 28 E
Normal mean wind direction . .	S 66 E	S 1 W	S 35 E
Actual mean wind velocity (miles per diem).	178	120	318
Normal mean wind velocity (miles per diem).	209	120	231
Rainfall departure from normal in inches	—1·44	—1·09	—0·78

Depressions and cyclonic storms.

8. A shallow depression formed in the north of the Bay on the 14th and 15th, passed into Orissa on the 16th, and filled up on the 18th in the north of the Central Provinces. Barometrically the depression was feeble, but as it passed westwards it helped to produce the improvement in the Arabian Sea monsoon mentioned in the first section.

Another depression formed in Bihar on the 23rd. It began to move westwards on the 25th, and passing over Chota Nagpur, Central India, Rajputana and Sind reached Baluchistan at the end of the month. It was a shallow depression, but caused some heavy falls of rain along its track.

Pressure.

9. Pressure was slightly above normal in Hyderabad, Mysore and Madras, and below normal from the North-West Frontier Province to Assam as well as in Sind, the deficiency varying between 0·053″ in the North-West Frontier Province and 0·019″ in Assam. The monsoon trough was much further north than usual during the first half of the month.

The vertical gradient was somewhat flat in northwest India and about normal elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·008
Assam	—·019
Bengal	—·028
Bihar and Orissa	—·020
United Provinces	—·022
Punjab	—·033
North-West Frontier Province	—·053
Sind	—·020
Rajputana	—·010
Bombay	—·002
Central India	—·013
Central Provinces	—·005
Hyderabad	+·010
Mysore	+·015
Madras	+·009

TABLE 10.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference B—A.
	"		"	"
Quetta	—·006	Jacobabad	—·033	—·027
Leh	+·006	Lahore	—·038	—·044
Murree	—·039	Peshawar	—·053	—·014
Simla	—·009	Ludhiana	—·028	—·019
Mukteswar	—·025	Bareilly	—·027	—·002
Darjiling	—·034	Dhubri	—·023	+·011
Mount Abu	—·016	Deesa	+·001	+·017
Pachmarhi	—·011	Khandwa	+·003	+·014
Kodaikanal	+·013	Madura	+·013	0

Temperature.

10. Temperature was well above the average in north-west India during the first half of the month. On the mean of the month maximum temperature was from 2° to 5° above normal in the United Provinces West, the Punjab, the North-West Frontier Province and Rajputana. Minimum temperature was mostly within 2° of the normal.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·0	76·8	80·4	7·2	—0·8	—0·4	—0·4
2. Lower Burma	83·7	74·4	79·1	9·3	—0·5	—0·6	+0·1
3. Upper Burma	88·0	74·8	81·4	13·1	—1·2	—0·7	—0·5
4. Assam	87·7	76·8	82·3	10·9	—0·7	—0·3	—0·4
5. Bengal	86·8	77·7	82·3	9·0	—0·9	—0·3	—0·6
6. Orissa	87·5	78·0	82·7	9·6	—0·4	0	—0·4
7. Chota Nagpur	86·8	75·5	81·1	11·3	—0·9	—0·3	—0·6
8. Bihar	87·4	77·7	82·6	9·8	—1·8	—0·8	—1·0

Sub-division.	Actual temperature.				Departure from normal of		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
9. United Provinces, East	90·9	78·6	84·7	12·2	+1·1	+0·1	+1·0
10. Do. do., West	95·0	79·7	87·4	15·3	+4·7	+1·7	+3·0
11. Punjab, East and North	99·5	80·6	90·3	18·9	+4·8	+2·2	+2·6
12. Do., South-west	102·3	82·3	92·3	20·0	+2·3	+1·3	+1·0
13. Kashmir	85·2	60·9	73·0	24·4	+1·5	+1·1	+0·4
14. North-West Frontier Province	104·7	81·5	93·1	23·2	+4·7	+1·9	+2·8
15. Baluchistan	99·3	67·5	83·4	31·7	+1·5	—0·4	+1·9
16. Sind	96·3	79·0	87·6	17·3	+0·9	—0·6	+1·5
17. Rajputana, West	99·1	79·1	89·1	20·1	+3·7	—0·5	+4·2
18. Do., East	92·4	77·8	85·1	14·6	+2·4	+0·7	+1·7
19. Gujarat	89·6	77·3	83·5	12·3	+1·9	+0·7	+1·2
20. Central India, West	85·1	72·9	78·9	12·1	+1·3	+0·9	+0·4
21. Central India, East	88·7	77·5	83·1	11·2	+1·7	+0·9	+0·8
22. Berar	84·8	72·4	78·6	12·4	—0·3	+0·6	—0·9
23. Central Provinces, West	84·2	73·4	78·8	10·8	—0·7	—0·2	—0·5
24. Do. do., East	84·0	73·3	78·7	10·7	—0·8	0	—0·8
25. Konkan	84·4	76·7	80·6	7·7	+1·0	+0·9	+0·1
26. Bombay Deccan	85·2	70·0	77·6	15·2	+1·1	+0·5	+0·6
27. Hyderabad, North	85·7	71·1	78·5	14·6	+0·2	+0·1	+0·1
28. Do., South	89·4	73·1	81·3	16·3	+1·9	+0·3	+1·6
29. Mysore	83·3	66·6	74·9	16·7	+1·9	+0·3	+1·6
30. Malabar	83·9	74·3	79·1	9·6	+0·8	—0·1	+0·9
31. Madras, South-east	95·0	76·9	85·9	18·0	+1·8	+1·1	+0·7
32. Do. Deccan	93·3	75·7	84·5	17·7	+1·6	+0·8	+0·8
33. Do. Coast, North	91·1	78·3	84·7	12·8	+0·9	0	+0·9

TABLE 12.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·9	—0·6	—0·8
Assam	—0·7	—0·3	—0·5
Bengal	—0·9	—0·3	—0·6
Bihar and Orissa	—1·1	—0·4	—0·7
United Provinces	+2·9	+0·9	+1·9
Punjab	+4·2	+2·0	+3·1
North-West Frontier Province	+4·7	+1·9	+3·3

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+0·9	—0·6	+0·2
Rajputana	+2·9	+0·2	+1·6
Bombay	+1·5	+0·6	+1·1
Central India	+1·5	+0·9	+1·2
Central Provinces	—0·6	+0·1	—0·3
Hyderabad	+1·3	+0·2	+0·8
Mysore	+1·9	+0·3	+1·1
Madras	+1·4	+0·6	+1·0

Winds.

11. Winds were stronger than usual except in the United Provinces and Sind where they were normal, and in Bengal, the North-West Frontier Province and Bombay where they were weaker. They were steadier than usual in Assam, the United Provinces, the Punjab, Sind, Central India, the Central Provinces, Hyderabad and Mysore, and less steady in Burma, Bengal, the North-West Frontier Province and Rajputana.

Wind directions differed irregularly from the normal in the Gangetic plain and along the north-west frontier as well as at some stations in north Assam, north Burma and Tenasserim.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+1·1	— 4
Assam	+0·3	+10
Bengal	—0·7	— 9
Bihar and Orissa	+0·4	+ 3
United Provinces	—0·1	+ 6
Punjab	+0·5	+ 4
North-West Frontier Province	—0·9	—17
Sind	0	+14
Rajputana	+1·4	— 5
Bombay	—0·6	+ 1
Central India	+1·3	+ 7
Central Provinces	+0·7	+ 9
Hyderabad	+1·1	+ 9
Mysore	+1·7	+ 6
Madras	+1·0	— 2

Humidity and cloud.

12. The air was appreciably drier than usual in the United Provinces, north-west India, Bombay and Hyderabad, and about normal elsewhere.

Cloud amount was in excess in Bengal, Bihar and Orissa and Hyderabad, and in defect in Assam, the Punjab, Sind, Rajputana and Mysore.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	90	0	·867	—·019	8·4	+0·3
Assam	91	0	·923	—·016	7·2	—0·7
Bengal	90	+ 1	·945	—·017	8·2	+0·6
Bihar and Orissa	89	+ 1	·921	—·007	8·3	+1·3
United Provinces	79	— 7	·885	—·046	6·7	—0·3
Punjab	66	— 9	·808	—·074	3·1	—0·7
North-West Frontier Province.	63	— 9	·809	—·069	2·9	+0·2
Sind	72	— 4	·786	—·067	3·1	—0·6
Rajputana	70	— 7	·748	—·066	5·1	—1·0
Bombay	81	— 4	·787	—·023	7·9	+0·3
Central India	81	— 7	·767	—·059	8·5	+0·3
Central Provinces	84	— 3	·759	—·029	7·8	—0·1
Hyderabad	76	— 4	·691	—·031	7·6	+0·5
Mysore	82	— 2	·622	—·015	7·1	—1·5
Madras	76	— 2	·794	—·013	6·6	0

Rainfall.

13. The month's fall was in excess in the Bay Islands, Lower Burma, Assam, Bengal, Chota Nagpur and Bihar, was within 10 per cent. of the normal in Upper Burma, Central India West, the Central Provinces East and the Konkan, and in defect elsewhere. There was thus a deficiency over almost the whole field of the Arabian Sea monsoon, though the deficiency was not on the whole as large as in July. Taking the plains of India as a whole the month's fall was only 3 per cent. in defect.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	18·5	18·1	14·62	11·13	+ 3·49	+ 31
2. Lower Burma	26·2	24·1	33·43	29·09	+ 4·34	+ 15
3. Upper Burma	11·4	10·8	8·27	7·64	+ 0·63	+ 8
4. Assam	20·8	17·9	21·08	16·64	+ 4·44	+ 27
5. Bengal	19·2	16·6	19·70	14·06	+ 5·64	+ 40
6. Orissa	15·1	15·6	11·02	12·94	— 1·92	— 15
7. Chota Nagpur	18·3	16·2	15·26	13·35	+ 1·91	+ 14
8. Bihar	16·2	13·8	19·90	12·88	+ 7·02	+ 55
9. United Provinces, East	12·3	12·7	10·06	11·43	— 1·37	— 12
10. Do. do., West	8·4	11·8	7·23	11·31	— 4·08	— 36
11. Punjab, East and North	5·2	6·8	5·18	6·28	— 1·10	— 18
12. Do., South-west	1·6	2·8	0·97	2·30	— 1·33	— 58
13. Kashmir	6·6	8·5	5·17	7·86	— 2·69	— 34
14. North-West Frontier Province	3·2	4·4	1·98	3·19	— 1·21	— 38
15. Baluchistan	0·3	1·1	0·16	0·73	— 0·57	— 78
16. Sind	0·9	2·1	0·92	1·72	— 0·80	— 47
17. Rajputana, West	2·2	5·6	1·89	3·64	— 1·75	— 48
18. Do., East	7·0	9·5	6·23	7·35	— 1·12	— 15
19. Gujarat	6·0	11·0	5·61	7·86	— 2·25	— 29
20. Central India, West	10·0	12·4	8·76	9·66	— 0·90	— 9
21. Do. do., East	11·7	12·8	9·78	11·68	— 1·90	— 16
22. Berar	8·0	10·6	3·61	7·18	— 3·57	— 50
23. Central Provinces, West	12·4	14·5	9·84	12·12	— 2·28	— 19
24. Central Provinces, East	16·5	13·8	14·81	14·82	— 0·01	0
25. Konkan	24·0	24·8	22·07	23·49	— 1·42	— 6
26. Bombay Deccan	7·9	9·7	3·04	5·51	— 1·57	— 28
27. Hyderabad, North	9·9	11·1	4·23	7·48	— 3·25	— 43
28. Do., South	7·1	10·6	2·69	6·57	— 3·88	— 59
29. Mysore	7·0	8·9	3·78	5·24	— 1·46	— 28
30. Malabar	23·5	21·8	16·74	20·47	— 3·73	— 18
31. Madras, South-east	3·5	5·5	1·98	3·71	— 1·73	— 47
32. Do. Deccan	5·2	6·8	2·38	4·02	— 1·64	— 41
33. Do. Coast, North	9·4	10·5	5·99	6·99	— 1·00	— 14

TABLE 16.

Division.	Rainfall. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	18·17	16·08	+2·09	+13
Assam	21·08	16·64	+4·44	+27
Bengal	19·70	14·06	+5·64	+40
Bihar and Orissa	16·67	13·01	+3·66	+28
United Provinces	8·55	11·37	−2·82	−25
Punjab	4·14	5·30	−1·16	−22
North-West Frontier Province	1·98	3·19	−1·21	−38
Sind	0·92	1·72	−0·80	−47
Rajputana	4·88	6·19	−1·31	−21
Bombay	7·74	9·53	−1·79	−19
Central India	9·14	10·43	−1·29	−12
Central Provinces	10·39	12·03	−1·64	−14
Hyderabad	3·50	7·05	−3·55	−50
Mysore	3·78	5·24	−1·46	−28
Madras	4·56	6·25	−1·69	−27
Mean of India	9·54	9·87	−0·33	−3

Snowfall.

I.—North-West Frontier Province.

14. *Drosh.*—No snow fell.

II.—Kashmir.

(*a*) *Srinagar* } (*b*) *Gulmarg* } .—No snowfall was visible on any of the surrouuding mountains.

(*c*) *Skardu.*—No snow fell at the station. Very light falls occurred on the higher mountains on the 10th and 27th. The snow melted away soon. A slight accumulation was visible at some places on the higher mountains. This is below normal.

(*d*) *Dras.*—No snow fell.

(*e*) *Kargil.*—About 2 inches of snow fell near the top of Archulla and half an inch on Nakthulla on the 15th. At the end of the month there was about an inch of accumulation on the highest peaks of the Archulla mountains and nothing on any of the other mountains in that area. The accumulation is below normal, but the actual fall of the month is considered to be normal.

III.—United Provinces.

Almora.—The amounts reported are as follows :—

TABLE 17.

Place.	Actual falls. Depth. Feet	Inches.	Descent below perpetual snowline.
Malla Danpur	2	0	...
Malla Darma	5	6	1½ miles.
Malla Johar	*Nil*		...
Byans	8	11	2 to 4 miles.
Chaudans	3	3	1 mile.

Accumulations.

	Feet.	
Pindari	2	
Kafini	2	
Nandakot	2	
Puwalidwar	2	
Nuwe	15	Probably incorrect.
Lampia	6	
Lipulekh	4	
Binkarn	12	

IV. Eastern Himalayas.

(*a*) *Sikkim.—Gangtok and Yatung.*—No snow fell.

(*b*) *North-East Frontier District.*—The first snowstorm since March was observed in the third week of August when Daphabum (15,200 feet) was lightly sprinkled with snow.

Summary.

15. The month's fall was on the whole below normal in theNorth-West Frontier Province and Kashmir and normal or slightly above it in Almora.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in August, 1918.

Tabl

Abstract of observations taken at 10 hrs. and 16 hrs. at

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° L. t.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three pre-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	2
	III.—Bengal.																					
5	Calcutta	21	29·607	29·507	·100	29·559	—·032	29·527	88·4	78·8	9·6	91·6	75·1	16·5	83·5	85·3	82·3	+0·9	77·5	79·8	80·5	7
	VI.—Punjab.																					
11	Lahore	702	28·848	28·750	·098	28·791	—·043	29·437	99·8	81·9	17·9	110·2	71·7	38·5	91·4	98·5	89·9	+2·8	71·9	78·9	79·8	7
	IX.—Rajputana.																					
18	Jaipur	1,431	28·225	28·120	·105	28·172	—·007	29·516	93·1	77·5	15·6	102·5	72·2	30·3	85·4	91·2	83·7	+1·4	72·9	75·8	77·0	7
	X.—Bombay																					
25	Bombay	37	29·761	29·689	·072	29·735	+·006	29·711	85·6	78·8	6·8	97·2	77·4	9·8	82·3	82·4	81·1	+1·7	74·6	77·7	77·4	7
	XIV.—Mysore.																					
29	Bangalore	3,021	26·910	26·797	·113	26·852	+·018	29·702	83·1	65·8	17·3	90·7	63·8	26·9	75·0	80·3	72·6	+0·8	64·5	67·9	69·0	6
	XV.—Madras.																					
31	Trivandrum	198	29·740	29·643	·097	29·698		29·827	82·8	73·7	9·1	86·3	69·9	16·4	79·9	81·0	77·2			75·0	75·4	
	Pudukkottai	318	29·554	29·415	·139	29·485		29·726	97·6	77·0	20·6	102·1	71·4	30·7	88·0	94·8	87·3			73·5	74·3	
	Madras	22	29·795	29·671	·124	29·742	—·004	29·695	97·3	78·9	18·4	104·1	74·8	29·3	89·4	90·2	87·0	+2·5	73·8	76·6	78·6	7
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·478	25·417	·061	25·445	+·008	25·400	83·0	67·8	15·2	88·4	65·9	22·5	76·7	77·7	74·9	+0·4	66·1	70·7	71·3	6
	Kodaikanal	7,688	22·814	22·757	·057	22·785		22·720	65·1	51·5	13·6	69·4	49·4	20·0	60·8	59·3	58·3		48·7	56·3	56·5	5
	Extra India.																					
	Seychelles	15	30·048	29·970	·079	30·012	+·039*	29·950	80·4	76·0	4·4	82·1	74·4	7·7	78·5	79·3	76·7	+0·1*	68·2	72·5	73·1	7
	Mauritius	181				30·045	+0·30	30·117	73·4	57·0	16·4	75·2	51·3	23·9			65·1	−2·9				5

N.B.—Elevations in italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Departure from old normal.

A.

tations in India, etc., in August, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total number of 10 hrs. and 16 hrs. winds from								Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
														Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.									
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	54	55	56
																															III.—Bengal.	
·827	·967	·972	·957	—·010	94	85	80	87	— 1	8·9	9·3	9·1	+0·4	0	2	1	13	13	12	18	2	1	S 14° E	S 2° E	50	56	86	82	10·77	2·78	Calcutta	5
																															VI.—Punjab.	
·771	·815	·764	·807	—·077	72	58	45	59	—12	3·3	2·5	2·9	—1·1	10	0	1	4	16	7	5	11	8	S 15° W	S 78° E	26	24	47	49	4·38	1·87	Lahore	11
																															IX.—Rajputana.	
·754	·774	·756	·774	—·042	80	64	54	68	—10	5·7	6·1	5·9	—1·7	4	5	5	3	1	2	18	18	6	S 84° W	N 69° W	45	42	101	82	0·1	1·78	Jaipur	18
																															X.—Bombay.	
·789	·885	·870	·859	—·026	81	81	78	81	— 6	8·5	9·2	8·9	+0·5	0		0	0	0	0	15	35	2	S 81° W	S 81° W	93	79	166	270	4·81	0·78	Bombay	25
																															XIV.—Mysore.	
·590	·599	·579	·593	—·020	93	69	57	75	— 4	9·1	8·1	8·6		0	0	0	0	0	0	17	43	2	S 79° W	S 81° W	92	88	208	145	5·27	1·82	Bangalore	29
																															XV.—Madras.	
	·799	·801				79	76			8·4	7·4	7·9		2	6	0	0	0	0	0	15	39	N 52° W		87		164		6·41	1·14	Trivandrum.	31
	·632	·571				48	35			3·6	6·3	4·9		4	4	0	0	0	3	7	19	25	N 72° W		71		112		4·24	0 90	Pudukkottai	
·765	·739	·822	·786	—·050	78	54	59	64	— 9	5·7	9·1	7·4	+0·5	0	0	1	5	8	4	10	33	1	S 63° W	S 36° W	53	56	73	121	3·06	0·81	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·717	·682	·694	·664	—·018	91	75	74	81	— 1	6·5	7·6	7·1	0	0	0	0	27	0	0	0	35	0	W	N 66° W	13	2	8	13	13·53	1·71	Katmandu.	
·715	·407	·427	·383		63	77	85	82		7·3	9·1	8·2		0	3	1	6	6	3	2	23	18	N 74° W		43		226		5·73	1·40	Kodaikanal.	
																															Extra India.	
·738	·717	·732	·687	—·060	65	74	73	72	— 6	7·3	6·8	7·1	+0·7*	0	0	2	0	31	26	0	0	0	S 28° E	S 35° E	89	89	318	231	1·78	0·66	Seychelles.	
			·591	—·075				71	— 3			5·5	+0·5										S 59° E	S 66° E			178	209	0·78	0·26	Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in August, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·008	85·5	—0·9	74·6	—0·6	80·0	—0·8	10·9	+1·1	— 4	80	0	·867	—·019	8·4	+0·3	18·17	16·08	+2·09
Assam	—·019	87·7	—0·7	76·8	—0·3	82·3	—0·5	10·9	+0·3	+10	91	0	·923	—·016	7·2	—0·7	21·08	16·64	+4·44
Bengal	—·028	86·8	—	77·7	—0·2	82·3	—0·6	9·0	—0·7	— 9	90	+ 1	·945	—·017	8·2	+0·6	19·70	14·06	+5·64
Bihar and Orissa	—·020	87·3	—1·1	77·2	—0·4	82·3	—0·7	10·1	+0·4	+ 3	89	+ 1	·921	—·007	8·3	+1·3	16·67	13·01	+3·66
United Provinces of Agra and Oudh	—·022	92·9	+2·9	79·2	+0·9	86·1	+1·9	13·8	—0·1	+ 6	79	— 7	·885	—·046	6·7	—0·3	8·55	11·37	—2·82
Punjab	—·033	100·5	+4·2	81·2	+2·0	91·0	+3·1	19·3	+0·5	+ 4	66	— 9	·808	—·074	3·1	—0·7	4·14	5·30	—1·16
North-West Frontier Province	—·053	104·7	+4·7	81·5	+1·9	93·1	+3·3	23·2	—0·9	—17	63	— 9	·809	—·069	2·9	+0·2	1·98	3·19	—1·21
Sind	—·020	96·3	+0·9	79·0	—0·6	87·6	+0·2	17·3	0	+14	72	— 4	·786	—·067	3·1	—0·6	0·92	1·72	—0·80
Rajputana	—·010	95·1	+2·9	78·3	+0·2	86·7	+1·6	16·8	+1·4	— 5	70	— 7	·748	—·066	5·1	—1·0	4·88	6·19	—1·31
Bombay	—·002	87·3	+1·5	74·8	+0·6	81·0	+1·1	12·5	—0·6	+ 1	81	— 4	·787	—·023	7·9	+0·3	7·74	9·53	—1·79
Central India	—·013	86·9	+1·5	75·2	+0·9	81·0	+1·2	11·7	+1·3	+ 7	81	— 7	·767	—·059	8·5	+0·3	9·14	10·43	—1·29
Central Provinces	—·005	84·3	—0·6	73·1	+0·1	78·7	—0·3	11·1	+0·7	+ 9	84	— 3	·759	—·029	7·8	—0·1	10·39	12·03	—1·64
Hyderabad	+·010	88·2	+1·3	72·5	+0·2	80·3	+0·8	15·7	+1·1	+ 9	76	— 4	·691	—·031	7·6	+0·5	3·50	7·05	—3·55
Mysore	+·015	83·3	+1·9	66·6	+0·3	74·9	+1·1	16·7	+1·7	+ 6	82	— 2	·622	—·015	7·1	—1·5	3·78	5·24	—1·46
Madras	+·009	91·8	+1·4	76·7	+0·6	84·2	+1·0	15·1	+1·0	— 2	76	— 2	·794	—·013	6·6	0	4·56	6·25	—1·69

Table

(2) Abstract of observations taken at 8 hrs. at 21/4

Number of sub-division	Station	Height of bar-cistern above sea-level in feet	Pressure, 8 hrs., in inches: Mean 8 hrs. pressure reduced to 32°	Departure from normal	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month	Date	Lowest pressure of month	Date	Temperature of air: Mean of 8 hrs. dry bulb	Mean of 8 hrs. wet bulb	Mean maximum	Departure from normal	Mean minimum	Departure from normal	Monthly mean of mean between maximum and minimum	Departure from normal	Mean daily range of temperature	Highest temperature observed during month	Date	Lowest temperature observed during month	Date
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·762		29·841	29·808	11th	29·699	13th	78·7*	75·8*	82·5*		74·9*		78·7*		7·6*	85·6	21st	70·2	12th
	Mergui	66	29·833	+·015	29·829	29·830	18th	29·770	13th	76·1	75·3	82·2	−2·3	73·1	+0·2	77·7	−1·1	9·1	87·4	27th	71·2	17th
	Tavoy	19	29·858	−·004	29·810	29·909	9th	29·758	13th	76·3	75·3	81·9	−0·9	71·1	−2·9?	76·5	−1·9?	10·8	86·0	27th	68·8	12th & 13th.
	Moulmein	94	29·773	+·030?	29·792	29·825	18th	29·629	13th	76·9	75·1	82·2	−1·0	73·5	−0·7	77·8	−0·9	8·7	86·8	9th	71·5	15th
	Rangoon	18	29·805	+·008	29·761	29·862	21st	29·671	14th	78·3	76·7	84·7	−0·3	74·6	−1·3	79·7	−0·8	10·1	89·0	8th	72·1	20th
	Bassein	27	29·782	+·003	29·746	29·843	10th	29·630	14th	79·3	77·7	86·4	+1·5	75·8	−0·1	80·9	+0·7	10·4	91·0	3th	73·1	15th
	Diamond Island	41	29·749	−·019	29·725	29·809	10th	29·612	14th	81·0	78·1	84·6	+0·4	76·8	+0·9	80·7	+0·7	7·8	87·8	9th	73·6	15th & 26th.
	Tounroo	164	29·634	+·102	29·741	29·687	21st	29·486	14th	77·7	76·7	85·4	−1·6	74·0	−0·8	79·8	−1·2	11·4	89·8	28th	71·9	24th
	Kyaukpyu	18	29·725		29·683	29·788	10th	29·549	14th	78·5	77·0	83·5		75·7		79·6		7·8	87·6	23th	68·0	11th
	Akyab	20	29·687	−·038	29·648	29·752	18th	29·498	14th	79·3	77·9	84·1	−0·4	74·8	−2·4	79·4	−1·4	9·3	87·8	29th & 30th.	71·4	10th
3	Minbu	*165*	29·574	−·011	29·682	29·615	17th	29·417	14th	79·8	76·3	90·1	−0·2	77·3	+0·1	83·7	−0·1	12·8	95·9	12th	75·6	17th
	Yamethin	644	29·120	−·001	29·716	29·185	18th	28·962	14th	77·2	74·7	86·9	−2·5	74·0	−0·6	80·5	−1·5	12·9	92·2	28th	72·4	25th
	Mandalay	250	29·491	−·008	29·688	29·576	17th	29·353	14th	81·5	75·9	92·8	−0·5	77·7	−0·2	85·2	−0·3	15·1	97·6	7th	75·1	9th & 27th.
	Monywa	*280*	29·458	−·017	29·686	29·548	17th	29·309	14th	81·0	76·4	91·9	−1·2	78·3	0	85·1	−0·6	13·6	98·4	12th	74·9	28th
	Lashio	*2,890*	26·975	−·017	26·921	27·057	17th	26·832	14th	72·1	70·0	80·7	−2·1	69·4	0	75·1	−1·1	11·3	86·5	29th	67·0	27th
	Shamo	*361*	29·343	−·010	29·657	29·433	17th	29·187	14th	77·6	76·5	87·0	−1·0	73·0	−2·3	80·0	−1·7	14·0	94·6	29th	70·6	30th
	Myitkyina	458	29·235	−·020	29·657	29·327	29th	29·072	14th	77·4	75·8	86·4	−0·9	74·1	−1·6	80·2	−1·3	12·3	93·4	28th	72·2	8th
	II.—Assam.																					
4	Dibrugarh	353	29·325	−·025	29·639	29·435	27th	29·185	14th	78·3	76·7	86·9	+0·2	75·8	+0·1	81·3	+0·1	11·1	92·6	2nd	71·7	9th
	Sibsagar	333	29·361	−·015	29·652	29·477	18th	29·221	5th	79·3	77·6	86·6	−2·0	77·5	−0·2	82·1	−1·1	9·3	93·9	15th	75·2	29th
	Tezpur	252	29·428	−·012	29·639	29·536	18th & 26th	29·279	5th	78·3	77·1	87·6	−1·0	76·6	−1·0	82·1	−1·0	11·0	93·2	15th	74·0	25th
	Gauhati	196	29·480	−·025	29·630	29·589	18th	29·351	14th	80·6	78·4	88·4	−1·5	77·5	−0·3	82·9	−0·9	10·9	93·3	7th	74·3	26th
	Dhubri	115	29·538	−·023	29·697	29·670	27th	29·378	5th	81·2	78·6	85·0	−1·1	78·0	−0·5	81·5	−0·8	7·0	89·8	2nd	73·8	26th
	Silchar	104	29·598	−·017	29·651	29·696	18th	29·435	14th	79·7	78·0	89·6	+0·1	76·7	−0·1	83·2	0	12·9	91·4	16th	72·5	31st
	Srimangal	66	29·626		29·641	29·724	18th	29·467	11th	80·5	77·8	83·9	+0·3	75·7	−0·3	82·8	0	14·2	94·1	21st	74·3	22nd
	III.—Bengal.																					
5	Cox's Bazar	36	29·653		29·634	29·732	18th	29·474	14th	80·0	77·6	84·0		75·1		79·6		8·9	88·2	31st	73·4	10th
	Chittagong	87	29·590	−·032	29·622	29·675	27th	29·429	14th	79·2	77·3	86·3	+0·6	76·2	0	81·2	+0·3	10·1	90·6	31st	73·9	10th
	Noakhali	43	29·630	−·020	29·629	29·734	27th	29·471	14th	80·2	78·1	85·8	+0·3	77·8	+0·7	81·8	+0·5	8·0	89·8	29th	74·8	10th & 22rd
	Barisal	12	29·638	−·021	29·597	29·739	27th	29·483	15th	80·6	78·5	85·5	−1·4	77·8	−0·4	81·7	−0·9	7·7	89·0	2nd	75·0	9th
	Narayanganj	26	29·623	−·029	29·598	29·74	27th	29·478	14th	81·4	78·5	86·5	−1·2	77·8	−1·2	82·1	−1·2	8·7	90·1	29th	75·0	11th
	Mymensingh	63	29·594	−·025	29·609	29·703	27th	29·414	5th	81·2	78·8	86·8	−0·3	78·4	+0·2	82·6	−0·1	8·4	91·8	14th	75·2	25th
	Bogra	75	29·560	−·033	29·537	29·691	27th	29·400	5th	80·9	79·1	86·8	−1·7	78·0	−0·5	82·4	−1·1	8·8	91·9	15th	74·9	24th
	Dinajpur	123	29·499	−·035	29·576	29·640	27th	29·327	6th	80·8	78·6	86·9	−2·0	77·9	−0·6	82·4	−1·3	9·0	93·3	15th	72·5	26th
	Jalpaiguri	283	29·356	−·035	29·595	29·465	27th	29·214	15th	79·2	78·1	85·9	−1·5	76·3	−0·8	81·5	−1·1	10·6	93·2	15th	70·3	26th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 30 days.

B.

stations in India, etc., in August, 1918.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
5	0	0	0	4	2	11	7	2	S 50° W		7·7			56		89*		·855*		8·9		24		30·28	25·67	+ 4·61	91·60	107·05	−15 45	3·75	Victoria Point.
13	1	0	3	7	3	2	2	0	S 29° E	N 87° W	5·9	1·2	+4·7	33	−27	96	+ 3	·865	−·010	7·1	+0·7	30	+ 4·5	35·22	29·55	+ 5·67	110·74	108·37	+ 1·97	4·71	Mergui.
18	1	0	0	2	6	2	1	1	S 13° W	S 62° W	1·8	1·2	+0·6	23	+ 9	95	+ 2	·859	−·007	9·4	+1·5	31	+ 3·5	58·32	47·09	+11·23	180·85	163·29	+17 56	6·24	Tavoy.
3	0	0	1	3	11	12	1	0	S 16° W	S 4° W	9·8	2·8	+7·0	72	+17	92	− 1	·850	−·018	9·9	+1·5	30	+ 3·1	41·21	43·34	− 2·13	152·16	146·22	+ 5·94	3·70	Moulmein.
3	1	0	2	3	14	7	1	0	S 5° W	S 57° W	3·9	3·2	+0·7	66	+ 5	93	0	·898	−·012	9·7	+0·7	29	+ 5·4	26·42	19·74	+ 6·68	66·01	71·45	− 5·44	4·28	Rangoon.
11	0	0	0	2	11	3	4	0	S 18° W	S 15° W	4·0	3·1	+0·9	53	− 4	92	− 2	·934	+·010	7·4	−0·3	23	− 1·8	23·29	22·48	+ 0·81	71·14	80·57	− 9·43	2·83	Bassein.
1	1	0	0	1	1	19	6	7	S 58° W	S 46° W	9·4	6·5	+2·9	79	+ 4	88	+ 1	·926	+·020	6·9	−1·4	21	− 0·5	15·65	23·24	− 7·59	73·44	84·25	−10·81	2·06	Diamond Island.
5	0	0	0	14	11	1	0	0	S 23° E	S 34° E	3·8	3·1	+0·7	76	+ 1	95	+ 3	·898	−·010	10·0	+0·7	25	+ 0·8	20·02	19·35	+ 0·66	74·77	58·73	+16 04	3·45	Toungoo.
14	0	0	7	3	6	1	0	0	S 44° E		1·7			40		93		·907	−·047	6·8		29		32·09	37·79	+ 0·30	160·88	139·88	+21·00	4·35	Kyaukpyu.
13	0	0	3	5	5	5	0	0	S 14° E	S 39° E	3·5	2·5	+1·0	40	−14	94	0	·934	−·020	8·1	−0·7	29	+ 2·6	63·11	44·55	+18·56	232·05	157·12	+74·93	7·61	Akyab.
1	0	0	1	27	2	0	0	0	S 43° E	S 39° E	4·3	6·9	−4·6	92	0	84	− 1	·855	−·026	7·6	+0·7	11	+ 1·1	3·84	5·03	− 1·19	28·48	20·55	+ 7·93	0·70	Minbu. —
										S 28° E	—	6·1				89	+ 2	·824	−·020	7·8	+0·3	14	+ 3·8	7·90	5·55	+ 2·25	20·73	20·74	− 0·01	2·14	Yamethin. —
15	0	0	0	7	9	0	0	0	S 20° E	S 1° W	5·2	5·8	−0·6	49	−31	75	− 4	·810	−·048	6·5	−0·1	11	+ 3·5	6·13	4·29	+ 1·84	19·06	19·21	− 0·15	2·28	Mandalay.
4	1	0	5	18	3	0	0	0	S 50° E		3·4			76		80	− 3	·843	−·055	9·0	+0·8	5	− 0·1	8·80	4·06	+ 4·74	20·36	17·80	+ 2·56	3·79	Monywa.
10	0	0	1	1	3	12	1	3	S 44° W		2·5			46		90	− 1	·705	−·033	8·7	- 0·3	22	+ 2·7	21·01	12·81	+ 8·20	59·16	42·33	+16·83	2·20	Lashio.
9	0	2	0	0	0	0	0	0	N 45° E	N 89° W	0·5	1·2	−0·7	3	− 9	95	+ 2	·896	−·008	9·1	+0·8	22	+ 3·0	8·92	15·49	− 6·57	56·87	53·22	+ 3·65	1·00	Bhamo.
7	0	1	0	1	1	1	0	0	S 24° E		0·9			7		93	+ 2	·868	−·028	8·4	−0·3	21	+ 2·1	19·18	16·02	+ 3·16	67·66	56·29	+11·37	2·74	Myitkyina.
																															II.—Assam.
8	0	0	0	0	1	0	1	1	S 79° W		0·3			5		93	0	·894	−·017	7·4	−1·0	17	− 3·0	12·14	19·24	− 7·10	71·99	69·67	+ 2·32	2·56	Dibrugarh.
6	2	5	1	0	6	0	1	0	S 82° E	S 1° W	1·6	2·0	−0·4	10	− 6	92	− 2	·923	−·037	9·2	+0·4	20	+ 1·5	16·74	16·50	+ 0·24	55·16	59·54	− 4·38	3·38	Sibsagar.
6	0	5	5	4	0	0	1	0	N 85° E		1·0			33		94	+ 1	·913	−·027	6·4	−1·8	15	− 2·4	23·39	14·99	+ 8·40	87·81	49·39	+38·42	4·18	Tezpur.
3	0	3	4	0	0	0	1	0	N 67° E		1·1			17		90	+ 2	·942	−·001	8·7	+0·6	17	+ 3·7	17·29	10·28	+ 7·01	56·26	45·66	+10·60	2·86	Gauhati.
0	0	10	9	7	2	3	0	0	S 84° E	S 69° E	5·0	3·2	+1·8	62	+30	89	− 2	·941	−·010	5·9	−1·9	17	+ 2·7	15·79	13·14	+ 2·35	89·33	68·83	+20·50	3·05	Dhubri.
5	0	2	2	0	0	0	1	0	N 59° E	S 87° E	1·4	1·8	−0·4	7	+ 5	92	+ 1	·933	−·008	7·8	−0·5	25	+ 2·7	25·54	20·00	+ 5·54	101·53	78·18	+23·35	3·47	Silchar.
																88	+ 2	·918	−·014	5·1		23	+ 0·5	13·47	13·22	+ 0·25	73·09	65·97	+ 7·12	1·68	Srimangal.
																															III.—Bengal.
4	0	1	4	16	4	2	0	0	S 42° E		4·5			69		90		·919		7·5		24		39·58	29·72	+ 9·86	181·64	102·96	+78·68	6·48	Cox's Bazar.
1	0	0	13	11	3	0	0	0	S 63° E	S 41° E	2·0	4·6	−2·6	76	+ 4	92	+ 4	·909	−·002	7·5	−0·3	17	+ 0·8	28·11	18·90	+ 9·21	102·12	71·40	+30·72	4·81	Chittagong.
1	0	1	1	18	7	3	0	0	S 30° E		5·3			78		91	+ 1	·930	−·016	6·5	+0·4	20	− 3·7	25·98	26·58	− 0·60	85·10	84·72	+ 0·38	4·70	Noakhali.
9	0	2	2	5	9	4	0	0	S 16° E	S 17° E	2·1	2·6	−0·5	49	+13	91	+ 2	·939	−·029	9·2	+1·5	28	+ 6·0	18·63	13·50	+ 5·13	85·31	54·69	+10·62	4·70	Barisal.
3	0	0	6	13	7	1	0	1	S 40° E	S 32° E	2·7	5·2	−2·5	69	+ 1	87	− 3	·932	−·044	8·1	−0·5	20	+ 2·7	20·84	12·51	+ 8·33	72·25	47·68	+24·57	4·72	Narayanganj.
1	0	1	7	7	3	0	0	0	S 60° E	S 56° E	2·1	2·6	−0·5	46	−22	89	− 1	·952	−·006	9·2	+1·1	22	+ 2·5	20·86	15·56	+ 5·30	76·90	64·31	+12·59	3·32	Mymensingh.
2	0	0	12	0	4	1	1	0	S 68° E	S 55° E	1·1	2·6	−1·5	40	−31	92	+ 4	·970	+·009	8·7	+1·4	21	+ 4·6	33·01	12·86	+20·15	79·77	48·75	+31·02	8·04	Bogra.
3	0	3	21	2	1	1	0	0	S 88° E	S 68° E	3·2	2·8	+0·4	78	+10	90	0	·935	−·023	7·2	−0·8	20	+ 4·4	35·25	12·95	+22·30	89·99	50·16	+39·83	7·80	Dinajpur.
1	1	3	2	0	1	0	0	0	N 62° E	N 78° E	1·5			13	−44	95	+ 3	·948	0	5·6	−0·1	22	+ 2·0	27·66	25·12	+2·54	117·55	90·36	+27·19	4·60	Jalpaiguri.

* Mean of 30 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214 station

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*contd.*																					
	Saugor Island	10	29·615	—·011	29·570	29·719	27th	29·425	15th	82·1	79·6	86·7	—0·8	78 9	—1·0	82·8	—0·9	7·8	90·3	31st	75·1	11th
	Midnapore	149	29	—·035	29·548	29·573	27th	29·292	15th	81·9	78·8	88·6	—1·0	78·4	+0·1	83·5	—0·5	10·2	91·4	9th	73·7	9th
	Calcutta	21	29·596	—·026	29·564	29·710	27th	29·425	15th	81·1	78·9	88·4	+0·8	78·7	+0·3	83·5	+0·5	9·7	91·6	2nd	75·1	9th
	Jessore	30	29·606	—·019	29·583	29·725	27th	29·448	15th	81·9	78·7	87·4	—1·2	78·3	—0·4	82·9	—0·8	9·1	90·5	2nd	75·4	11th
	Burdwan	99	29·505	—·039	29·552	29·630	27th	29·335	15th	81·2	78·9	87·6	—1·8	78·0	—1·1	82·8	—1·5	9·6	91·6	2nd & 4th	75·4	9th
	Berhampore	67	29·550	—·029	29·567	29·683	27th	29·402	15th	81·0	78·8	87·6	—1·1	78·5	—0·2	83·1	—0·7	9·1	92·5	3rd	75·8	21st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·585	—·024	29·560	29·670	27th	29·385	15th	81·2	78·6	88·6	+0·3	78·1	—0·2	83·3	+0·1	10·5	91·2	31st	74·5	10th
	Hukitala (False Point)	29	29·615	—·006	29·585	29·719	27th	29·408	15th													
	Cuttack	80	29·557	— 008	29·578	29·646	27th	29·367	15th	81·3	78·6	89·0	—0·3	78·4	+0·1	83·7	—0·1	10·6	92·5	12th	75·2	11th
	Puri	24	29·624	—·009	29·589	29·717	10th	29·431	14th	82·6	79·6	86·9	—0·9	80·1	+0·7	83·5	—0·1	6·8	91·6	3rd & 29th	75·5	9th
	Angul	455	29·174	—·026	29·574	29·267	11th	28·999	15th	80·2	77·2	87·6	+0·5	76·8	0	82·2	+0·3	10·8	91·8	10th & 12th.	75·0	18th
	Sambalpur	486	29·154	—·010	29·587	29·248	11th	29·006	14th	79·1	77·1	85·6	—1·5	76·4	—0·8	81·0	—1·1	9·2	89·4	3rd	73·2	6th
7	Chaibasa	*733*	28 870	—·019	29·552	28·979	28th	28·734	15th	79·4	76·8	88·6	—0·1	76·8	+0·2	82·7	+0·1	11 8	94·1	1st	74·3	23rd
	Ranchi	2,128	27·504	—·018	29·535	27·620	28th	27·394	15th	75·8	73·5	8 :7	—0·8	73·2	+0·3	78·0	—0·3	9·5	87·3	3rd	71·0	6th
	Purulia	*816*	28·798	—·014	29·561	28·930	27th	28·676	15th	79·3	76·8	88·4	—0 7	76·3	—0·2	82·4	—0·5	12·1	97·5	30th	73·9	21st
	Daltonganj	*730*	28·867	—·019	29·546	28·996	30th	28·767	14th	79·4	76·5	87·4	—2·0	75·5	—1·5	81·5	—1·7	11·9	95·5	2nd	71·5	9th
8	Purnea	124	29·488	—·037	29·566	29·630	27th	29·346	5th	80·6	78·6	86·3	—2·7	77·7	—0 8	82·0	—1·7	8·6	91·7	15th	71·8	26th
	Monghyr	155	29·433		29·540?	29·573	27th	29·298	25th	81·2	78·8	87·8		77·7		82·8		10·1	95·3	3rd	72·1	26th
	Darbhanga	165	29·442	—·028	29·561	29·620	27th	29·300	24th	81·8	78·4	86·6	—2·1	78·0	—1·3	82·3	—1·7	8·6	92·5	5th	71·7	26th
	Pusa	188	29·408		29·550	29·562	27th	29·273	24th	81·9	79·5	88·0		77·1		82·5		10·9	94·6	5th	71·1	26th
	Patna	183	29·414	—·026	29·551	29·555	27th	29·277	24th	82·0	79·2	87·0	—2·2	78·3	—1·2	82·7	—1·7	8·7	96·8	1st	73·2	26th
	Buxar	239	29·339	—·035	29·533	29·460	28th	29·217	15th	80·8	78·6	88·3	—0·6	77·7	—0·7	83·0	—0·7	10·6	96·3	2nd	72·5	26th
	Gaya	372	29·223	—·018	29·549	29·365	30th	29·087	25th	80·8	77·9	88·0	—2·2	77·7	—0·7	82·9	—1·5	10·3	95·8	2nd	74·1	9th
	Naya Dumka	489	29·124	—·020	29·564	29·254	27th & 28th	29·003	5th	80·4	77·9	87·5	—0·9	77·1	—0·3	82·3	—0·6	10·4	92·4	2nd	74·4	9th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·336	—·026	29·550	29·489	30th	29·228	5th	81·3	78·7	88·7	—0·9	77·9	—0·7	83·3	—0·8	10·8	93·3	1st	73·1	26th
	Benares	267	29·316	—·027	29·536	29·458	30th	29·188	15th	81·6	78·9	88·8	—0·8	77·6	—1·0	83·2	—0·9	11·2	97·0	1st	72·7	26th
	Allahabad	309	29·292	—·007	29·555?	29·438	30th	29·160	15th	82·5	78·6	91·3	+1·4	78·8	+0·2	85·1	+0·8	12·5	99·3	13th	74·9	27th
	Cawnpore	416	29·174	—·014	29·542	29·307	30th	29·028	6th	84·1	77·9	95·5	+6·1	81·0	+2·4	88·2	+4·3	14·5	104·2	6th	75·7	27th
	Lucknow	368	29·215	—·021	29·534	29·352	30th	29·065	6th													
	Bahraich	407	29·177	—·025	29·542	29·306	30th	29·049	6th	81·5	77·6	90·0	—0·1	77·8	—0·5	83·9	—0·3	12·2	98·7	1st	70·4	25th
10	Jhansi	824	28·781	—·024	29·554	28·908	30th	28·656	6th	81·6	75·6	92·9	+3·9	78·2	+0·8	85·5	+2·3	14·7	101·6	15th	73·2	24th
	Agra	556	28·023	—·028	29·527	29·179	27th	28·850	6th	87·5	78·3	98·0	+6·6	82·3	+3·1	90·2	+4·9	15·7	108·1	14th	75·1	27th
	Mainpuri	516	28·068	—·019	29·532	29·242	27th	28·888	6th	85·9	77·6	97·8	+6·5	81·3	+2·7	89·6	+4·6	16·5	108·4	2nd	75·0	27th
	Bareilly	568	28·009	—·027	29·532	29·170	27th	28·814	6th	83·3	78·2	99·4	+3·5	78·7	+0·7	86·0	+2·1	14·7	103·3	13th	73·6	27th
	Roorkee	899	28·686	—·024	29·539	28·880	27th	28·470	6th	82·6	77·0	93·0	+3·0	78·0	+1·0	85·5	+2·0	15·0	103·5	13th	73·4	16th 17th

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

n India, etc., in August, 1918 - *continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																														III.—Bengal—*contd.*	
1	0	4	3	3	6	11	2	1	S 12° W	S 10° W	8·7	6·3	+2·4	40	− 7	89	0	·976	−·018	9·0	+0·3	19	+2·2	14·52	14·01	+0·48	41·67	45·03	−3·36	3·00	Saugor Island.
4	0	1	2	1	2	1	0	0	S 45° E		2·2			13		87	0	·943	−·006	8·8	+3·5	18	+1·4	10·89	12·14	−1·25	43·86	40·14	+8·72	1·92	Midnapore.
1	0	2	8	5	9	9	2	0	S 21° E	S 18° E	3·5	3·4	+0·1	43	− 4	90	+ 1	·956	−·016	9·4	+1·0	16	−2·3	10·77	12·09	−1·32	42·69	42·43	+0·26	2·78	Calcutta.
1	0	0	1	8	0	1	0	0	S 43° E	S 25° E	1·4	2·7	−1·3	27	−23	86	− 4	·935	−·059	9·0	+0·9	18	+0·9	14·77	10·89	+3·88	47·01	44 39	+2·62	3·37	Jessore.
5	0	7	1	0	1	4	2	1	N 13° E	S 32° E	1·1	2·5	−1·4	6	−26	90	+ 2	·960	+·001	9·3	+0·8	23	+7·0	18·38	11·07	+7·31	54·58	40·13	+14·45	1·83	Burdwan.
3	0	0	9	9	7	3	0	0	S 41° E	S 79° E	3·1	2·9	+0·2	66	+26	90	− 1	·955	−·031	8·4	−0·3	24	+7·5	30·70	11·56	+19·14	62·85	37·95	+24·90	5·94	Berhampore.
																														IV.—Bihar and Orissa.	
7	3	2	0	0	10	6	0	3	S 33° W	S 41° W	2·9	3·1	−0·2	33	− 7	88	+ 1	·944	−·006	7·8	+1·9	17	+2·6	10·97	11·25	−0·28	31·91	36·95	−5·04	4·20	Balasore.
3	4	1	0	0	0	5	7	1	S 71° W		9·3			56	− 5					8·4	+0·1	14	−1·5	9·09	12·66	−3·57	25·46	37·71	−12·25	1·46	Hukitala (False Point).
2	0	0	0	0	0	3	5	1	S 80° W	S 66° W	1·6	2·0	−0·4	27	−20	88	+ 5	·940	+·031	8·1	+0·8	16	−0·1	11·39	13·65	−2·26	33·52	39·22	−5·70	1·89	Cuttack.
6	4	1	0	0	2	8	8	2	S 86° W		10·4			45		87	+ 1	·970	+·004	7·2	+0·3	11	−2·1	14·68	12·25	+2·43	45·44	32·14	+13·30	5·03	Puri.
7	0	0	0	0	1	0	5	8	N 66° W		3·7			39		87	+ 1	·895	+·007	8·5	+2·9	10	−4·2	8·20	10·34	−2·14	32·60	31·01	+1·59	3·50	Angul.
9	0	2	1	0	4	22	2	0	S 40° W	S 30° W	3·6	3·2	+0·4	76	+16	91	+ 6	·900	+·017	9·5	+1·5	21	+1·9	22·98	18·80	+4·18	64·08	50·38	+13·70	5·52	Sambalpur.
7	1	4	1	1	1	14	1	1	S 45° W	S 51° W	2·3	1·3	+1·0	33	0	89	+ 3	·886	+·014	8·5	+1·4	15	−1·9	10·18	11·52	−1·34	29·49	35·09	−5·60	3·72	Chaibasa
2	1	2	4	4	1	4	10	3	S 73° W	S 56° W	3·3	5·3	−2·0	23	+ 9	90	+ 1	·799	+·005	9·4	+1·1	16	−2·9	9·24	12·79	−3 55	35·11	39·53	−4·42	1·27	Ranchi.
5	0	3	3	3	3	2	0	2	S 53° E		1·4			16		88	− 2	·886	−·027	9·2	+2·8	15	−2·7	11·97	11·45	+0·52	33·57	34·32	−0·75	2·10	Purulia.
0	0	0	3	0	0	5	3	0	S 45° W		2·3*			13		88	+ 2	·878	−·013	7·1	+1·5	21	+4·2	16·78	12·29	+4·49	35·93	29·56	+6·37	2·92	Daltonganj.
3	0	1	17	8	1	0	1	0	S 76° E	S 89° E	3·1	2·2	+0·9	76	+22	91	0	·953	−·031	7·4	+0·1	20	+3·7	32·11	13·93	+18·18	55·66	43·44	+22·22	9·42	Purnea.
0	0	3	12	7	1	4	3	1	S 65° E		5·4			45		89		·953		7·7		18		32·01	11·91	+17·07	57·41	36·51	+20·90	5·85	Monghyr.
0	3	0	20	0	1	0	0	0	S 87° E	S 74° E	4·5	3·2	+1·3	66	+ 2	86	− 3	·927	−·049	8·8	+1·7	14	−0·5	23·38	14·43	+8·95	42·84	37·38	+5·46	6·24	Darbhanga.
1	0	7	15	5	1	1	1	0	S 89° E		4·0			70		90		·977		8·1		15		26·68	16·27	+10·41	53·51	38·44	+15·07	4·80	Pusa.
5	0	0	21	1	0	1	2	1	S 88° E	S 78° E	5·8	3·2	+2·6	59	+ 5	88	+ 1	·956	−·020	9·2	+0·7	16	+2·2	27·92	13 57	+14·35	50·99	35 31	+15·68	5·18	Patna.
3	1	3	13	3	1	3	4	0	S 80° E		3·1			36		90	+ 2	·949	−·004	7·6	+0·3	18	+4·0	12·97	12·08	+0·89	24·44	28·68	−4·24	3·50	Buxar.
7	1	3	4	3	2	9	2	0	S 1° W	S 52° E	3·0	2·7	+0·3	24	+ 5	87	+ 1	·916	−·019	8·3	+1·5	20	+5·0	19·75	13·23	+6·52	37·87	33·96	+3·91	4·92	Gaya.
5	0	0	2	1	2	1	0	0	S 31° E		1·5			13		89	+ 1	·924	−·011	8·5	+1·6	23	+4·9	23·68	12·98	+10·70	40·68	40·09	+0·59	5·83	Naya Dumka.
																														V.—United Provinces of Agra and Oudh.	
2	2	0	25	1	1	0	2	0	N 89° E	S 88° E	2·0	1·6	+0·4	76	+40	89	0	·947	−·012	4·9	−1·6	12	−2·9	8·76	14·50	−5·74	25·17	36·46	−11·29	3·27	Gorakhpur.
9	1	2	7	2	1	2	2	5	N 54° E	S 54° E	2·5	3·0	−0·5	10	− 1	88	+ 1	·949	−·009	8·3	+0·3	20	+5·3	14·76	11·51	+3·25	21·60	28·41	−6·81	2·75	Benares.
3	0	1	9	0	1	3	6	1	S 29° E	N 79° W	2·5	4·8	−2·3	7	+ 3	84	− 2	·926	−·019	8·6	+0·1	19	+5·0	13·15	11·70	+1·45	22·86	28·28	−5·42	4·25	Allahabad.
1	2	4	7	7	1	2	5	2	S 81° E	S 2° W	2·6	2·9	−0·3	23	+16	76	−15	·871	−·075	5·8	−0·6	11	−2·3	7·43	11·80	−4·37	13·13	25·40	−12·27	2·90	Cawnpore.
0	0	0	7	0	1	2	1	0	S 62° E	S 88° E	1·7	2·1	−0·4	17	− 9					7·8	+0·4	9	−4·2	7·40	11·28	−3·88	19·78	28·04	−8·26	1·62	Lucknow.
0	0	0	7	3	0	0	0	0	S 77° E	S 70° E	2·2	2·0	+0·2	30	−18	83	− 4	·896	−·062	7·9	+2·3P	10	−3·6	10·14	14·15	−4·01	27·63	32·40	−4·77	3·35	Bahraich.
3	1	2	1	0	0	14	11	2	S 73° W	S 85° W	4·7	2·8	+1·9	69	+33	75	− 8	·805	−·075	3·7	−1·3	9	−4·9	5·71	10·90	−5·19	12·06	27·18	−15·12	1·16	Jhansi.
9	1	1	3	2	1	9	2	2	S 40° W	S 40° W	3·7	3·6	+0·1	27	− 2	67	−14	·840	−·069	5·4	−1·2	8	−2·2	6·47	7·84	−1·37	9·64	19·82	−10 18	2·04	Agra.
3	1	1	9	3	2	0	11	2	N 31° W	S 13° W	1·5	1·2	+0·3	3	− 3	70	−14	·838	−·097	7·7	+0·9	11	+0·2	8·74	9·00	−0·26	10·92	18·90	−7·98	1·75	Mainpuri.
9	0	1	6	2	0	0	2	0	S 83° E	S 71° E	0·3	1·9	−1·6	20	− 2	82	− 6	·927	−·009	8·1	+1·1	8	−4·8	5·67	12·89	−7·22	18·19	32·12	−13·93	3·00	Bareilly.
3	0	2	0	14	0	0	0	2	S 54° E	S 36° E	2·8	1·8	+1·0	40	+ 8	77	− 8	·851	−·038	5·0	−1·5	9	−3·4	7·32	12·09	−4·77	21·25	29·97	−8·72	3·47	Roorkee.

*Mean of 26 days.

Tabl

(2) Abstract of observations taken at 8 hrs. at 214 statio

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	28·862	—·021	29·533	29·050	27th	28·661	6th	85·2	76·5	97·3	+5·5	82·2	+2·6	89·8	+4·1	15·1	105·1	6th, 13th & 14th.	74·5	19th
	Hissar	725	28·853	—·005	29·523	29·045	27th	28·659	6th	87·0	76·4	100·7	+2·6	81·0	+0·5	90·9	+1·5	19·7	109·7	2nd	71·3	27th
	Patiala	*818*	28·737	—·040	29·508	28·940	27th	28·534	6th	85·4	77·6	97·3	+5·3	80·4	+1·9	88·8	+3·6	16·9	106·4	1st	71·8	27th
	Ambala	892	28·674	—·027	29·515	28·875	27th	28·461	6th	85·9	76·6	99·2	+7·2	80 2	+2·5	89 7	+4·9	19·0	110·7	7th	71·3	27th
	Ludhiana	812	28·749	—·028	29·513	28·976	27th	28·541	6th	85·9	76·7	95·6	+5·3	81·7	+2·6	90·7	+3·9	17·9	109·1	7th	72·0	27th
	Lahore	702	28·831	—·038	29·490	29·087	27th	28·607	6th	86·6	77·3	100·2	+2·4	81·7	+2·8	91·0	+2·6	18·5	110·2	2nd	71·7	23rd
	Sialkot	830	28·705	—·048	29·491	28·968	27th	28·472	6th	85·3	78·7	103·4*	+8·5?	79·7	+1·4	92·9*	+1·9?	23·7	106·8	7th	71·5	27th
	Rawalpindi	1,674	27·902	—·033	29·494	28·117	27th	27·674	6th	85·5	75·5	98·7	+5·0	77·9	+2·5	88·3	+3·7	20·8	110·9	7th	70·2	31st
12	Khushab	612	28·919	—·036	29·490	29·166	27th	28·682	6th	88·3	77·5	103·4	+2·7	82·4	+1·0	92·9	+1·9	21·0	112·0	6th	72·4	11th
	Lyallpur	605	28·910		29·473	29·157	27th	28·677	6th	86·7	76·3	101·5		81·6		91·6		19·9	109·0	2nd, 6th & 18th.	73·7	28th
	Montgomery	558	28·964	—·040	29·482	29·193	27th	28·751	6th	87·5	77·0	101·3	—0·5?	81·2	—0·9	91·3	—0·7?	20·1	107·7	18th	70·2	22nd
	Multan	426	29·082	—·042	29·463	29·286	27th	28·872	6th	88·5	79·7	103·0	+1·8	84·1	+1·5	93·6	+1·7	18·9	108·3	22nd	81·6	9th & 11th.
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·424	—·053	29·488	28·863	27th	28·189	6th	86·2	76·6	104·0	+4·8	79·3	+1·3	91·7	+3·1	24·7	115·2	7th	73·5	28th
	D. I. Khan	590	28·924	—·052	29·473	29·177	27th	28·680	6th	88·2	78·0	105·1	+4·5	83·7	+2·5	94·5	+3·5	21·7	111·1	6th	79·1	27th
	VIII.—Sind.																					
16	Jacobabad	186	29·328	—·033	29·470	29·501	28th	29·098	6th	86·8	76·6	107·8	+3·2	81·9	0	94·9	+1·6	25·9	117·5	7th	78·2	24th
	Hyderabad	96	29·459	—·027	29·507	29·612	28th	29·300	6th	82·1	74·4	97·5	+1·6	78·3	—0·7	87·9	+0·5	19·2	104·2	31st	75·9	25th
	Karachi	13	29·622	+·001	29·586	29·745	11th	29·506	15th	78·6	75·5	83·5	—2·0	76·7	—1·0	80·1	—1·5	6·8	86·9	5th	74·0	31st
	IX.—Rajputana.																					
17	Bikaner	*771*	28·819	—·003	29·547	28·943	11th	28·650	6th	83·9	76·3	101·9	+4·4	79·7	—1·3	90·8	+1·5	22·2	107·8	1st	70·5	8th
	Jodhpur	780	28·841	—·011	29·573	28·983	27th	28·697	6th	81·7	73·7	96·4	+3·1	78·4	+0·4	87·4	+1·7	18·0	101·4	5th	74·3	31st
18	Jaipur	1,131	28·208	—·009	29·575	28·345	27th	28·078	6th	81·4	74·5	93·3	+1·9	77·4	+1·0	85·3	+1·5	15·9	102·5	3rd	72·2	31st
	Ajmer	1,611	28·031	—·017	29·573	28·152	27th	27·901	6th	78·5	72·2	91·1	+3·1	76·9	+1·0	84·0	+2·1	14·2	98·4	4th	72·7	31st
	Kotah	832	28·782	—·012	29·562	28·900	27th	28·671	6th	83·5	74·5	92·7	+2·2	79·0	+0·1	85·9	+1·1	13·7	101·6	15th & 16th.	71·6	23rd
	X.—Bombay.																					
19	Deesa	466	29·211	+·001	29·630	29·340	11th	29·109	15th	81·1	75·0	94·1	+5·0	77·0	+1·2	85·6	+3·1	17·1	100·1	5th	70·9	31st
	Bhuj	334	29·326	—·009	29·610	29·441	11th	29·209	15th	81·7	75·9	90·2	+1·6	77·5	+1·2	83·8	+1·4	12·7	93·0	1st & 2nd.	72·7	31st
	Jamnagar	61	29·618	—·014	29·675	29·739	11th	29·513	15th	82·3	76·5	89·7	+1·6	77·9	+1·2	83·8	+1·4	11·8	95·5	9th	74·6	31st
	Dwarka	37	29·664	—·001	29·647	29·778	11th	29·557	15th	79·8	76·2	85·0	+0·5	78·4	+0·3	81·8	+0·4	6·6	87·2	2nd	75·7	31st
	Rajkot	429	29·264	—·011	29·641	29·374	11th	29·171	15th	80·6	73·5	91·9	+3·1	74·4	—0·1	83·1	+1·5	17·5	97·3	9th	71·2	30th
	Veraval	*18*	29·711	—·007	29·672	29·823	11th	29·622	20th	79·5	77·1	82·5	+0·1	78·6	+0·8	80·6	+0·5	3·9	85·3	1st	76·8	21st
	Bhavnagar Para	55	29·654	—·015	29·655	29·778	11th	29·558	20th	81·2	78·0	92·3	+0·8	77·4	+0·6	84·9	+0·7	14·9	98·3	27th	75·4	21st, 28th.
	Surat†	39	29·700	—·002	29·682	29·814	11th	29·604	20th	81·1	77·0	86·7	0	77·8	+1·1	82·2	+0·5	8·9	89·5	15th & 28th.	75·1	3rd
	Ahmadabad	163	29·545	+·006	29·657	29·679	11th	29·454	15th	81·4	74·9	93·9	+4·2	76·9	—0·2	85·4	+2·0	17·0	101·1	27th	72·1	31st
25	Bombay	37	29·755	—·001	29·732	29·859	11th	29·669	20th	80·8	77·1	85·7	+1·5	78·8	+1·7	82·3	+1·6	6·9	88·1	1st	77·4	22nd, 24th.
	Ratnagiri	207	29·620	+·002	29·768	29·708	11th	29·554	15th	80·2	76·3	83·7	0	75·9	+0·5	79·8	+0·3	7·8	85·9	11th	73·3	1st
	Marmagao	*60*	29·796	+·001	29·790	29·875	11th	29·728	20th	79·6	77·8†	84·2	+0·8						85·4	17th		
	Karwar	44	29·826	+·006	29·805	29·896	11th	29·756	15th	78·2	75·9	83·8	+1·4	75·3	+0·6	79·6	+1·0	8·5	85·7	11th	73·6	7th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 16 days.
† „ „ 30 „

B—*continued.*

in India, etc., in August, 1918—*continued.*

Wind Direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																													
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																															VI.—Punjab.
4	2	3	2	7	1	1	7	4	N 59° W	S 27° W	4·2	2·8	+1·4	2	−16	68	−11	·795	−·080	3·4	−3·2?	9	−0·8	8·64	7·36	+1·28	10·97	18·71	−7·74	2·15	Delhi.
1	0	2	2	5	4	10	6	1	S 29° W	S 42° W	5·5	4·6	+0·9	45	+ 6	61	−10	·762	−·095	3·9	+0·1	3	−2·4	5·29	3·41	+1·85	5·77	9·70	−3·93	2·00	Hissar.
0	1	1	5	14	2	0	7	1	S 42° E		4·5			39		71	−12	·841	−·096	3·9	−1·8	8	−1·0	10·21	6·78	+3·43	13·98	15·69	−1·71	2·80	Patiala.
1	2	1	11	8	1	1	4	2	S 74° E	S 51° E	3·7	0·9	+2·8	37	+13	66	−21?	·798	−·135	4·7	−1·2	7	−2·1	6·82	7·77	−0·95	9·33	19·88	−10·55	3·50	Ambala.
15	0	0	0	8	2	2	3	1	S 4° E	S 29° E	1·6	1·3	+0·3	27	−12	66	−14	·795	−·098	2·3	−3·3?	5	−3·2	6·85	7·04	−0·19	10·54	18·22	−7·68	4·28	Ludhiana.
5	0	0	2	12	4	4	4	0	S 13° E	S 41° E	2·1	2·0	+0·1	53	+13	66	− 9	·813	−·092	2·6	−1·2	6	+0·1	4·38	5·22	−0·84	6·53	13·06	−6·53	1·87	Lahore.
10	1	5	7	7	0	0	1	0	S 88° E	N 83° E	1·5	1·8	−0·3	46	− 1	75	− 4?	·893	−·003?	3·5	−0·6	7	−2·4	7·68	8·79	−1·11	11·25	19·93	−8·68	3·43	Sialkot.
6	2	3	5	11	3	1	0	0	S 62° E	S 82° W	1·7	1·2	+0·5	49	+20	64	−14	·757	−·075	4·0	−0·6	9	−0·3	9·06	8·64	+0·42	12·23	19·69	−7·46	3·37	Rawalpindi.
9	0	8	9	3	2	0	0	0	N 85° E	N 68° E	4·8	4·5	+0·3	56	− 1	61	− 8	·799	−·070	2·7	+0·2	2	−1·2	1·26	2·93	−1·67	3·62	8·93	−5·31	1·03	Khushab.
2	0	7	4	4	4	8	2	0	S 29° E		3·2			30		62		·765		2·7		4	+1·0	4·32	2·79	+1·53	5·75	8·28	−2·53	2·65	Lyallpur.
1	0	1	2	7	8	10	2	0	S 4° W	S 12° W	5·5	6·0	−0·5	62	+ 8	62	0	·785	−·032	2·2	−0·3	1	−2·8	1·85	3·13	−1·23	3·96	6·77	−2·81	1·80	Montgomery.
14	0	0	0	1	5	11	0	0	S 28° W	S 14° E	1·6	2·1	−0·5	49	+ 6	67	− 1	·897	+·030	1·3	−0·6	1	−1·3	0·17	1·79	−1·62	1·37	4·79	−3·42	0·17	Multan.
																															VII.—North-West Frontier Provinces.
26	4	0	0	0	0	0	0	1	N 9° W	N 10° W	0·5	2·6	−2·1	17	−26	64	− 6	·791	−·031	4·1	+0·8	1	−1·3	0·65	1·93	−1·28	1·55	4·54	−2·99	0·63	Peshawar.
20	0	7	1	2	0	0	0	1	N 57° E	N 72° E	1·7	1·5	+0·2	27	− 9	62	−13	·824	−·108	1·7	−0·4	0	−2·4	0	1·94	−1·94	1·38	5·21	−3·83	0	D. I. Khan.
																															VIII.—Sind.
1	0	0	2	25	0	2	0	0	S 41° E	S 41° E	2·4	3·1	−0·7	92	+22	61	−11	·778	−·135	0·8	−1·4	0	−1·6	0	0·92	−0·92	0	2·22	−2·22	0	Jacobabad.
0	0	0	0	0	14	17	0	0	S 25° W	S 43° W	12·2	11·9	+0·3	96	+10	68	− 2	·741	−·044	0·8	−3·7?	2	−0·4	0·87	2·01	−1·14	0·87	5·64	−4·77	0·67	Hyderabad.
0	0	0	0	0	0	11	20	0	S 74° W	S 76° W	12·4	12·0	+0·4	96	+10	86	+ 1	·810	−·022	7·7	+0·2	0	−1·9	0·02	1·44	−1·42	0·10	5·57	−5·47	0·01	Karachi.
																															IX.—Rajputana.
1	0	0	1	3	8	15	3	0	S 27° W	S 36° W	7·6	5·6	+2·0	76	− 4	70	+ 1	·801	−·034	2·7	−1·5	3	−2·0	1·22	3·26	−2·04	1·41	8·40	−6·96	0·74	Bikaner.
0	0	1	1	0	2	27	0	0	S 40° W		6·0			86		67	− 9	·735	−·066	7·2	−0·1	2	−3·7	1·31	4·03	−2·77	1·49	9·35	−7·86	1·17	Jodhpur.
5	1	2	1	0	1	3	16	2	N 88° W	N 88° W	4·3	3·4	+0·9	56	− 1	72	− 7	·758	−·060	5·6	−1·4	7	−3·7	6·16	7·78	−1·62	7·02	18·40	−11·38	1·78	Jaipur.
3	0	1	0	1	0	7	18	1	S 79° W	S 85° W	6·3	5·0	+1·3	72	−10	74	− 9	·712	−·100	4·6	−1·9	6	−2·8	3·70	6·68	−2·98	5·53	15·91	−10·38	1·20	Ajmer.
1	1	0	0	1	0	16	6	6	S 72° W		3·9			72		65	− 9	·734	−·071	5·5	−0·3	10	−0·2	6·93	7·98	−1·05	12·99	20·33	−7·34	2·90	Kotah.
																															X.—Bombay.
1	0	0	0	0	1	20	5	4	S 60° W	S 71° W	10·5	8·8	+1·7	79	+ 4	75	− 9	·793	−·050	8·6	+0·2	5	−4·5	11·20	7·61	+3·59	14·47	19·30	−4·83	5·10	Deesa.
0	0	0	0	0	0	2	29	0	S 87° W	S 76° W	12·3	11·5	+0·8	99	+ 9	76	− 7	·814	−·045	8·1	+0·8	2	−2·2	2·32	2·89	−0·57	2·46	11·71	−9·25	1·90	Bhuj.
0	0	0	0	0	0	16	15	0	S 67° W		16·8			92		76	− 5	·834	−·033	5·8	+0·7	1	−6·5	1·14	5·23	−4·09	2·82	15·62	−12·80	1·05	Jamnagar.
0	0	0	0	0	0	16	15	0	S 67° W		12·6			92		84	− 2	·854	−·048	8·6	+0·6	1	−3·9	0·53	2·87	−2·34	0·67	12·46	−11·79	0·37	Dwarka.
0	0	0	0	0	0	22	9	0	S 58° W	S 77° W	14·6*	9·1	+5·5	92	+ 2	71	−13	·727	−·111?	9·4	+2·0?	1	−6·7	0·62	5·53	−4·97	7·94	21·34	−13·40	0·37	Rajkot.
1	0	0	0	0	0	13	16	1	S 72° W	S 77° W	8·7	8·6	+0·1	89	+ 7	89	0	·893	+·004	8·7	+0·6	2	−4·0	0·61	3·74	−3·13	5·89	15·21	−9·32	0·20	Veraval.
0	0	0	0	0	0	18	12	1	S 65° W	S 48° W	5·1	8·6	−3·5	91	+ 1	86	+ 6?	·916	+·036?	8·1	+0·6	7	−1·4	2·97	5·97	−3·00	6·51	17·81	−11·30	1·07	Bhavnagar Para.
6	0	0	0	1	8	9	4	2	S 39° W	S 66° W	5·9*	7·2	−1·3	59	−21	82	− 3	·872	−·016	9·4	+1·5	8	−4·5	2·82	7·35	−4·53	15·72	33·14	−17·42	0·52	Surat
0	0	0	0	0	1	15	10	5	S 72° W	S 63° W	5·8	3·6	+2·2	82	+10	73	−10	·778	−·077	7·2	−1·2	6	−4·8	2·90	8·05	−5·15	6·95	24·64	−17·69	1·71	Ahmadabad.
0	0	0	0	0	0	9	21	1	S 79° W	S 77° W	9·5	11·2	−1·7	96	+13	84	− 3	·882	−·001	8·7	−0·2	13	−6·2	4·81	13·71	−8·90	30·88	53·12	−27·24	9·78	Bombay.
2	2	0	0	0	0	7	17	3	S 88° W	S 74° W	8·1	6·9	+1·2	79	+11	83	− 5	·853	−·019	7·9	−0·3	21	−2·6	17·53	19·57	−2·04	59·76	83·84	−24·08	2·98	Ratnagiri.
4	0	0	0	0	2	13	12	0	S 62° W	N 56° W	7·5	8·2	−0·7	76	− 1	92	+ 1	·826	−·078?	8·8	+1·2	25	+3·0	12·67	15·58	−2·91	79·41	79·53	−0·12	1·07	Marmagao.
9	1	3	0	4	7	6	0	1	S	N 81° W	2·5	3·1	−0·6	33	−14	99	+ 3	·862	+·025	6·7	−0·7	25	+ 1·3	15·77	21·65	−5·88	89·22	100·92	−11·70	2·41	Karwar.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214 station

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
26	Malegaon	1,430	28·315	+·005	29·684	28·448	11th	28·222	15th	77·7	71·6	87·8	+·09	72·7	+0·8	80·3	+0·9	15·1	94·9	28th	67·8	31st
	Ahmadnagar	2,154	27·640	+·002	29·703	27·750	11th	27·519	15th	74·8	69·1	86·6	+1·8	69·2	+0·2	77·9	+1·0	17·4	91·9	28th	64·3	27th
	Poona	1,846	27·940	—·003	29·719	28·033	11th	27·846	20th	74·3	70·7	83·7	+2·0	70·7	+1·1	77·2	+1·5	13·0	89·6	11th	68·7	31st
	Sholapur	1,590	28·196	—·002	29·717	28·299	11th	28·110	20th	76·6	70·3	89·0	+ ·2	70·9	+0·1	79·9	+0·1	18·1	93·8	18th	67·9	23rd
	Bijapur	*1,948*	27·871	+·014	29·740	27·959	11th	27·791	15th	75·3	69·7	88·1	+1·6	70·3	+0·5	79·2	+1·1	17·8	93·0	5th & 27th.	68·5	26th
	Belgaum	2,562	27·316	+·023P	29·793	27·407	11th	27·235	15th	69·9	68·7	76·2	−0·1	63·3	0	71·3	−0·1	9·9	79·6	28th	63·8	28th
	XI.—Central India.																					
20	Neemuch	1,626	28·051	—·016	29·612	28·171	11th	27·943	6th	76·9	71·6	86·9	+2·0	73·8	+1·2	80·3	+1·6	13·1	92·7	16th	68·7	31st
	Indore	1,823	27·879	—·010	29·637	27·985	11th	27·792	6th	74·8	71·2	83·2	+0·6	72·0	+0·6	77·6	+0·6	11·2	89·7	12th	69·1	31st
21	Nowgong	754	28·854	—·015	29·558	28·980	30th & 31st.	28·739	15th	80·4	75·4	90·4	+2·5	78·1	+1·1	84·2	+1·8	12·3	100·0	16th	74·2	29th
	Sutna	1,041	28·562	—·012	29·550	28·673	31st	28·468	15th	79·4	75·3	86·9	+0·9	76·8	+0·6	81·9	+0·7	10·1	97·0	16th	71·8	12th & 26th.
	XII.—Central Provinces.																					
22	Buldana	2,134								73·3	69·7	80·8	−1·1	63·9	+0·4	75·3	−0·3	10·9	87·0	11th	67·9	31st
	Akola	925	28·796	+·001	29·670	28·905	11th	28·692	15th	78·0	72·7	87·8	+0·7	74·0	+0·6	80·9	+0·7	13·8	95·0	11th	71·8	2nd & 21st.
	Amraoti	1,215	28·497	+·003	29·659	28·599	11th	28·383	15th	76·6	72·1	85·8	−0·4	73·4	+0·7	79·6	+0·1	12·4	91·5	11th	71·3	1st & 16th.
23	Khandwa	1,014	28·664	+·003	29·629	28·775	11th	28·578	15th	77·1	73·0	85·0	−0·7	73·6	−0·6	79·3	−0·7	11·4	92·4	12th	69·8	31st
	Hoshangabad	1,006	28·677	0	29·634	28·780	11th	28·579	15th	76·9	74·2	84·6	−0·5	73·2	−0·8	78·9	−0·7	11·4	90·3	11th	70·6	29th
	Saugor	1,807	27·838	—·026	29·575	27·916	31st	27·738	15th	75·0	72·4	83·7	+0·1	72·7	−0·2	78·2	−0·1	11·0	89·8	13th	69·8	30th
	Jubbulpore	1,327	28·311	—·011	29·582	28·428	30th	28197	15th	76·6	73·3	84·1	−0·6	74·6	+0·7	79·4	+0·1	9·5	89·3	11th	72·9	16th, 28th & 29th.
	Seoni	2,033	27·657	+·003	29·610	27·755	30th	27·527	15th	75·5	71·6	81·7	−1·4	71·6	−0·1	76·6	−0·7	10·1	88·0	11th	69·9	20th
	Nagpur	1,017	28·675	+·008	29·639	28·773	11th	28·529	15th	78·0	73·3	85·1	−0·8	74·6	0	80·4	−0·4	11·5	92·0	11th	71·9	1st
24	Pendra	2,040	27·604	−·013	29·555	27·714	30th	27·485	15th	76·5	73·1	83·2	−0·1	72·6	0	77·9	−0·1	10·6	87·9	14th	68·9	16th
	Raipur	970	28·685	—·005	29·601	28·786	11th & 30th.	28·548	15th	78·0	74·9	84·8	−1·0	74·6	−0·1	80·2	−0·5	10·2	90·2	12th	73·2	16th
	Chanda	*634*	29·066	−·013	29·645	29·175	11th	28·940	15th	78·5	74·3	86·1	−1·4	75·2	+0·1	80·6	−0·7	10·9	92·2	11th	71·8	1st
	Jagdalpur	1,813	27·893		29·630	27·985	11th	27·740	15th	74·7	72·3	81·8		70·7		76·3		11·1	87·3	29th	67·5	16th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·869	−·002	29·702	27·975	11th	27·770	15th	74·2	70·0	84·8	−0·2	70·0	+0·7	77·4	+0·3	14·8	92·9	11th	65·9	31st
	Nizamabad	1,248	28·498	+·013	29·685	28·611	11th	28·405	15th	76·6	72·0	86·7	+0·6	72·3	−0·5	79·6	+0·1	14·4	91·9	11th	70·4	11th
	Bidar	*2,165*												50·4	−17·0	67·3	−8·3	33·7			47·9	1st
28	Gulbarga	1,503	28·296	+·012	29·733	28·392	11th	28·219	15th	76·7	70·4	91·3	+3·1	71·7	+0·3	81·5	+1·7	19·6	97·7	11th	69·6	25th
	Raichur	*1,311*	28·496	+·018	29·743	28·564	12th	28·403	15th	77·6	71·9	92·2	+3·2	72·9	+0·4	82·5	+1·8	19·3	96·8	10th	70·4	22nd
	Hyderabad (Deccan)	1,738	28·075	+·027P	29·722	28·179	11th	27·976	15th	75·5	70·2	86·7	+1·4	72·5	+0·1	79·6	+0·7	14·2	92·8	29th & 30th.	69·4	12th
	Hanamkonda	877	28·869	+·011	29·686	28·985	11th	28·761	15th	79·9	72·4	87·5	−0·2	75·4	+0·3	81·4	+0·1	12·1	93·2	11th & 30th.	72·9	5th & 14th.
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·462	+·014	29·777	27·530	11th	27·384	15th	72·2	68·1	85·2	+3·1	68·8	+0·6	77·0	+1·9	16·4	90·1	29th	67·2	31st
	Hassan	3,149	26·783	+·016	29·789	26·839	12th	26·715	15th	69·8	66·6	80·4	+1·9	65·0	+0·3	72·7	+1·1	15·4	85·2	29th	62·5	31st
	Bangalore	3,021	26·902	+·015	29·800	26·961	11th & 12th.	26·837	14th	69·7	66·4	83·2	+1·3	65·8	0	74·5	+0·7	17·4	90·7	9th	63·8	31st
	Mysore	2,518	27·395	+·013	29·809	27·453	11th	27·328	14th	72·8	67·5	81·5	+1·2	66·8	+0·2	75·6	+0·7	17·7	90·7	9th	64·6	31st

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in August, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay—*concld.*
1	0	0	0	0	0	24	5	1	S 54° W	S 78° W	10·5	9·3	+1·2	92	+ 6	71	− 3	·698	−·025	8·7	+2·1	5	−0·9	1·11	3·34	−2·23	5·49	13·76	−8·27	0·27	Malegaon.
2	0	0	0	0	0	8	15	8	S 85° W	S 85° W	7·8	13·5	−5·7	82	+ 7	74	− 6	·638	−·046	6·1	−0·3	2	−3·4	0·50	2·64	−2·14	7·68	12·39	−4·71	0·19	Ahmadnagar.
12	0	0	0	0	0	4	15	0	S 81 W	S 83° W	8·4	10·8	−2·4	59	−31	84	0	·704	+·010	4·6	−3·4	3	−0·9	2·01	3·78	−1·77	6·96	17·23	−10·27	0·40	Poona.
0	0	0	0	0	0	14	10	7	S 78° W	S 83° W	10·7	9·3	+1·4	82	− 1	73	− 3	·659	−·022	8·3	+0·8	4	−4·3	1·59	5·11	−3·52	9·86	15·22	−5·36	0·60	Sholapur.
0	0	0	0	0	0	9	17	3	S 81° W	S 82° W	10·1	7·8	+2·3	86	+ 4	75	− 6	·657	−·032	6·0	−1·2	0	−5·3	0·18	2·51	−2·33	5·45	9·30	−3·85	0·03	Bijapur.
0	0	0	0	0	0	14	17	0	S 70° W	S 83° W	5·4	15·7	−10·3	96	+ 5	94	+ 2	·685	+·012	9·5	+0·1	18	+1·0	6·96	9·84	−0·88	18·68	37·55	−18·87	1·94	Belgaum.
																															XI.—Central India.
1	0	2	1	0	0	3	24	0	S 88° W	S 75° W	10·1	8·0	+2·1	79	− 5	77	− 9	·710	−·074	7·2	0	8	−2·0	3·38	8·67	−5·29	16·12	21·84	−5·72	1·19	Neemuch.
2	0	0	0	0	0	5	17	7	N 87° W	S 85° W	7·2	4·2	+3·0	82	0	84	− 5	·716	−·014	9·7	+0·5	8	−2·8	7·27	7·63	−0·36	14·86	23·42	−8·59	1·95	Indore.
0	0	2	2	1	1	5	11	1	N 81° W	S 89° W	3·7	2·3	+1·4	56	+ 5	79	− 8	·810	−·075	8·7	+0·5	10	−3·6	5·11	13·09	−7·98	10·30	33·16	−22·86	1·28	Nowgong.
3	0	0	3	0	1	18	6	0	S 49° W	S 85° W	4·4	5·6	−1·2	69	+28	83	− 4	·832	−·044	8·5	+0·2	12	−2·8	10·66	13·38	−1·72	19·93	32·30	−12·37	2·59	Sutna.
																															XII.—Central Provinces.
0	0	0	0	0	0	8	17	6	S 88° W		7·2	6·3	+0·9	87		83		·682		7·8		15	+0·7	4·50	7·03	−2·53	18·55	23·21	−4·66	0·65	Buldana.
0	0	0	0	0	0	3	19	9	N 82° W	N 78° W	7·7	6·3	+1·4	89	+ 3	77	− 5	·730	−·038	9·6	+1·6	4	−6·1	1·49	6·75	−5·26	12·50	22·04	−9·54	0·50	Akola.
0	0	0	0	0	0	1	21	9	N 79° W	N 89° W	7·9	5·7	+2·2	96	+10	80	− 7	·731	−·043	7·2	−0·6	5	−5·2	3·78	6·85	−3·07	18·90	23·12	−4·22	2·08	Amraoti.
0	0	0	0	0	0	5	20	6	N 89° W	N 86° W	8·1	6·4	+1·7	92	− 1	82	− 2	·756	−·012	8·3	+0·9	8	−2·3	4·32	6·50	−2·18	13·40	20·92	−7·82	1·10	Khandwa.
1	0	0	0	0	0	14	2	14	W	S 53° W	3·4	2·8	+0·6	70	− 9	88	− 2	·813	−·015	9·5	+0·8	13	−2·5	15·14	14·39	+0·75	25·79	36·23	−10·44	3·38	Hoshangabad.
0	1	0	0	0	1	3	16	10	N 79° W	S 87° W	7·0	3·9	+3·1	82	+17	87	− 1	·746	−·035	8·2	+0·2	15	−0·5	10·78	13·13	−2·35	27·03	34·24	−7·21	3·53	Saugor.
3	0	0	0	2	2	11	11	2	S 63° W	S 77° W	2·8	3·1	−0·3	69	+ 1	85	− 4	·776	−·015	8·7	+0·5	13	−4·5	19·73	16·35	+3·38	33·02	42·41	−9·39	4·15	Jubbulpore.
7	1	0	0	0	0	4	15	4	N 87° W	N 76° W	2·0	3·6	−1·6	69	+26	82	− 6	·721	−·019	8·2	+1·3	15	−1·8	9·15	13·00	−3·55	39·18	38·16	+1·02	1·74	Seoni.
0	2	0	0	0	0	2	12	15	N 65° W	S 89° W	5·2	5·3	−0·1	86	+25	80	− 5	·755	−·048	5·4	−2·8	14	+0·2	5·92	11·92	−6·00	27·49	35·69	−8·20	1·51	Nagpur.
7	2	1	1	0	0	4	6	10	N 64° W		4·3			49		85	− 2	·776	−·007	4·4	−2·8	19	+0·5	11·83	12·59	−0·76	34·58	34·84	−0·26	1·83	Pendra.
3	1	0	0	0	2	18	7	0	S 55° W	S 56° W	4·2	6·1	−1·9	79	+ 7	87	− 2	·824	−·013	8·1	+0·1	15	−0·5	18·59	13·74	+4·85	59·32	37·37	+21·95	4·38	Raipur.
0	0	0	0	0	1	11	15	1	S 68° W	S 76° W	5·9	4·1	+1·8	89	+11	82	0	·795	−·014	7·7	−0·2	15	−0·3	12·15	13·35	−1·20	35·34	37·89	−2·55	3·15	Chanda.
1	1	0	0	0	7	5	17	0	S 65° W		4·9			76		89		·766		7·9		23		21·06	14·62	+6·44	48·07	40·98	+7·09	3·60	Jagdalpur.
																															XIII.—Hyderabad.
0	0	0	0	0	0	5	21	5	W		13·4			90		81	− 2	·680	−·029	9·6	+1·4	8	−1·5	2·13	4·86	−2·68	10·99	17·94	−6·95	0·63	Aurangabad.
3	0	0	0	0	1	13	13	1	S 68° W		4·2			79		80	− 2	·728	−·020	7·0	+0·1	14	−0·5	5·75	10·61	−4·86	21·98	26·90	−4·91	1·19	Nizamabad.
0	0	0	0	0	0	18	5	8	S 73° W		3·2			78		83	− 3	·661	−·045	6·5	+1·1	14	+2·3	7·81	7·17	+0·64	20·91	21·36	−0·45	3·23	Bidar.
0	0	0	0	0	0	5	23	3	S 87° W	N 75° W	10·4	10·0	+0·4	96	+15	74	− 7	·671	−·041	6·7	−0·5	5	−4·1	1·28	6·10	−4·82	10·00	18·41	−8·41	0·46	Gulbarga.
0	0	0	0	0	0	10	13	8	S 87° W	S 81° W	11·3	9·5	+1·8	86	+ 5	75	− 1	·709	+·004	6·7	+0·8	8	−1·3	2·33	5·62	−3·29	8·52	15·23	−6·71	0·36	Raichur.
0	0	0	0	0	0	0	29	2	N 87° W	N 83° W	7·3	6·1	+1·2	99	+ 6	76	− 5	·667	−·040	8·1	+0·7	11	−0·3	3·51	6·74	−3·20	9·84	18·62	−8·78	0·92	Hyderabad (Deccan).
1	0	0	0	1	5	14	10		N 82° W		5·5			82		69	− 6	·691	−·059	7·3	+0·3	7	−3·8	3·03	7·04	−4·01	16·50	23·07	−6·57	0·88	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	13	16	2	S 74° W	S 73° W	6·4	7·8	+0·6	92	+ 4	83	0	·656	+·001	6·5	−2·2	3	−4·3	0·74	3·09	−2·35	2·72	12·45	−9·73	0·29	Chitaldrug.
0	0	0	0	0	0	8	17	5	S 86° W	N 87° W	8·2	3·2	+5·0	84	− 4	84	− 1	·616	−·013	6·4	−2·3	6	−3·4	1·24	3·80	−2·56	6·85	18·44	−11·59	0·20	Hassan.
0	0	0	0	0	0	11	19	1	S 75° W	S 78° W	8·8	6·1	+2·7	92	+24	84	− 1	·607	−·017	9·4	+0·8	9	−0·7	5·27	5·19	+0·08	15·47	16·52	−1·05	1·82	Bangalore.
1	0	0	0	0	1	14	15	0	S 66° W	S 72° W	7·6	9·1	−1·5	89	+ 1	76	− 6	·608	−·033	6·2	−2·3	10	+3·3	2·16	3·29	−1·13	9·09	14·35	−5·26	0·32	Mysore.

Table

(2) Abstract of observations taken at 8 hrs. at 214 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·832	+·002	29·836	29·883	11th	29·773	14th	79·0	76·0	85·2	+1·8	74·5	+0·8	79·9	+1·3	10·7	87·9	3rd	72·4	14th
	Calicut	27	29·888	+·011	29·844	29·954	11th	29·834	14th	77·0	75·6	82·7	0	74·5	+0·2	78·6	+0·1	8·2	86·1	9th	72·2	11th
	Cochin	9	29·926	+·016	29·863	29·969	11th	29·885	14th	78·4	75·0	81·6	+0·5	74·6	+0·2	78·6	+0·3	10·0	86·9	2nd	71·7	27th
	Trivandrum	198	29·734	+·027	29·864	29·792	11th	29·692	20th	76·5	74·1	83·0	+0·8	73·6	−1·4	78·3	−0·3	9·4	86·4	10th	69·8	21st
31	Pamban	37	29·819	+·005	29·784	29·896	11th	29·766	15th	82·5	77·2	87·4	−1·9	79·9	+1·5	83·6	−0·2	7·5	88·7	13th	77·5	28th
	Madura	447	29·410	+·013	29·787	29·499	11th	29·354	15th	82·9	73·8	93·3	0	77·3	+1·5	85·8	+0·7	19·0	100·9	22nd	72·8	10th
	Pudukkottai	318	29·543	+·018	29·791	29·607	11th	29·491	15th	83·2	72·4	97·6	+3·0	77·0	+1·4	87·3	+2·2	20·6	102·1	8th	71·4	25th
	Negapatam	31	29·819	+·013	29·778	29·891	11th	29·753	14th	83·4	77·4	93·7	+2·8	78·5	+1·2	87·6	+2·0	18·2	99·4	25th & 26th	75·3	29th
	Trichinopoly	255	29·602	+·020	29·795	29·687	11th	29·547	14th	82·8	73·7	97·6	+1·1	77·5	+0·7	87·6	+0·9	20·1	102·7	8th	73·3	10th
	Coimbatore	1,341	28·536	+·020	29·805	28·601	11th	28·478	14th	78·3	71·5	90·3	+2·1	71·6	+0·7	80·9	+1·4	18·8	94·1	9th	69·8	21st
	Salem	913	28·953	+·023	29·801	29·015	11th	28·890	14th	78·2	73·4	91·4	+2·3	73·6	+0·8	81·0	+1·5	20·8	100·5	9th	69·5	28th
	Cuddalore	37	29·794	+·009	29·761	29·886	11th	29·722	14th	83·2	75·1	96·4	+2·6	78·8	+2·1	87·6	+2·3	17·6	100·1	17th	75·3	10th
	Vellore	707	29·116	+·005	29·757	29·189	11th	29·033	14th	81·1	74·2	95·5	+2·6	78·4	+0·1	85·9	+1·3	19·1	101·5	9th	71·6	10th
	Madras	22	29·793	+·006	29·746	29·892	11th	29·712	15th	81·2	75·8	97·5	+3·8	78·9	+1·4	88·2	+2·6	18·7	104·2	5th	74·7	11th
32	Cuddapah	428	29·388	+·003	29·749	29·466	11th	29·294	15th	82·8	74·3	96·4	+2·1	78·1	+1·3	87·3	+1·7	18·3	102·9	9th	73·2	11th
	Bellary	1,475	28·348	+·005	29·750	28·415	11th & 12th	28·259	15th	79·1	70·2	92·2	+1·4	74·0	+0·2	83·1	+0·8	18·2	96·3	9th & 29th	68·6	18th
	Kurnool	923	28·888	+·017	29·751	28·980	11th	28·789	15th	78·3	72·1	91·4	+1·3	74·9	+1·0	83·1	+1·1	16·5	96·0	9th	71·8	16th
33	Nellore	66	29·718	+·001	29·719	29·816	11th	29·624	15th	85·3	76·7	96·9	+1·2	79·5	+0·7	88·2	+0·9	17·4	101·9	5th & 28th	73·2	16th
	Masulipatam	15	29·744	+·002	29·694	29·855	11th	29·634	15th	81·3	77·8	92·6	+1·4	77·0	−0·7	84·8	+0·3	15·6	97·4	25th	72·7	15th
	Cocanada	26	29·707	+·007	29·670	29·821	11th	29·588	15th	80·6	77·6	89·4	−0·1	77·7	−0·7	83·5	−0·4	11·7	95·2	28th	73·0	6th
	Waltair (Vizagapatam)	*226*	29·644	−·011	29·623	29·755	8th	29·479	15th	81·1	76·9	89·4	+2·2	77·5	−3·9?	83·4	−0·3?	11·9	97·0	5th	72·7	11th
	Calingapatam	19	29·653		29·609	29·752	8th	29·507	15th	81·9	78·	89·6		78·6		84·1		11·0	95·4	26th	73·8	15th
	Gopalpur	38	29·591	−·010	29·587	29·679	10th & 11th	29·410	15th	82·0	78·9	88·4	+1·1	79·3	+0·6	83·9	+0·9	9·1	96·2	26th	74·0	14th
	Bay Islands.																					
1	P. V. Fraser	8	29·631		29·568	29·750	10th	29·425	15th	83·1	80·7											
	Port Blair	58	29·797	+·007	29·785	29·885	10th	29·694	14th	80·2	77·0	84·6	−0·6	76·7	−0·5	80·6	−0·5	7·9	87·0	7th & 26th	72·5	29th
	Table Island		29·720	−·015	29·745	29·789	10th	29·611	13th	80·6	78·0	83·4	−1·0	76·9	−0·3	80·2	−0·7	6·5	86·0	26th	72·8	27th
	Kashmir.																					
13	Muzaffarabad		27·313			27·372	28th	27·037	6th	73·8	71·6	95·7		73·9		84·8		21·8	103·3	7th	69·9	10th, 20th & 31st
	Srinagar	5,204	24·688	−·021	24·659	24·852	27th	24·528	6th	72·6	66·5	86·5	+1·8	64·6	+1·2	75·6	+1·5	21·9	91·6	7th	59·5	20th
	Gulmarg	*8,569*	21·780	−·015	21·748	21·911	27th	21·651	6th	63·6	58·3	71·3	+3·0	50·3	−0·6	60·8	+1·2	21·0	76·7	7th	46·1	20th
	Dras	*10,059*	20·730	+·003	20·696	20·817	17th	20·640	6th	60·5	51·5	76·2	−3·5	50·8	+2·4	63·5	−0·5	25·4	83·5	17th	44·4	11th
	Leh	*11,503*	19·674	+·006	19·642	19·772	28th	19·566	6th	61·4	49·6	79·8	+2·9	50·1	+0·4	65·0	+1·7	29·7	85·3	18th	45·0	26th
	Skardu	*7,505*	22·666	−·036	22·636	22·803	28th	22·563	6th	71·2	56·3	89·2	+2·1	64·5	+3·4	76·8	+2·7	24·7	97·0	17th	54·3	11th
	Gilgit	4,890	24·884	−·015	24·857	25·066	11th	24·750	20th	80·8	68·2	97·8	+2·6	71·8	+0·1	84·8	+1·3	26·0	104·7	18th	65·7	31st

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

B—*continued.*

in India, etc., in August, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
1	2	2	7	1	0	1	12	5	N 52°W	N 72° W	4·8	1·8	+3·0	27	+ 2	87	— 2	·855	+·012	7·2	−1·3	26	+ 1·4	15·04	23·04	− 8·00	84·68	103·62	−18·94	1·84	Mangalore.
24	1	0	0	0	0	0	2	4	N 51° W	N 22° W	3·0	5·6	−2·6	23	−17	94	+ 3	·864	+·023	8·6	+0·8	24	+ 5·6	14·95	15·95	− 1·00	76·67	89·16	−12·49	2·63	Calicut.
7	1	5	5	0	1	2	4	6	N 10° W	N 13° W	5·4	4·2	+1·2	20	−27	85	— 1	·824	−·017	6·9	−0·4	19	+ 0·8	12·78	12·83	− 0·05	57·36	76·35	−18·99	2·39	Cochin.
5	9	0	0	0	0	0	2	15	N 33° W	N 13° W	6·8	6·6	+0·2	76	− 7	89	+ 4	·807	+·001	7·6	−0·1	12	+ 2·7	6·41	4·08	+ 2·33	31·40	33·26	− 1·86	1·14	Trivandrum.
0	0	1	0	1	7	13	8	1	S 47° W	S 43° W	11·3	7·3	+4·0	72	+ 7	78	+ 1	·860	−·011	3·3	+0·1	0	− 1·3	0	0·75	− 0·75	0·85	2·02	− 1·17	0	Pamban.
0	2	1	1	0	1	0	13	15	N 62° W	N 41° W	5·2	2·3	+2·9	72	− 7	63	− 4	·710	−·033	7·3	+2·1?	5	− 0·8	2·59	4·18	− 1·59	8·51	10·20	− 1·69	1·55	Madura.
5	3	0	0	0	1	0	10	12	N 60° W		4·7			68		57	−14	·651	−·103?	4·3	−2·8?	7	− 2·6	4·24	5·59	− 1·35	8·82	12·23	− 3·41	0·90	Pudukkottai.
0	0	0	0	0	0	6	24	1	S 83° W	S 72° W	6·3	4·5	+1·8	96	+13	75	+ 4	·855	+·057?	4·4	−0·9	3	− 2·4	1·42	3·62	− 2·20	7·77	8·43	− 0·66	0·66	Nagapatam.
1	0	0	0	0	1	16	9	4	S 68° W	S 85° W	6·2	5·8	+0·4	79	− 9	63	− 5	·707	−·030	5·1	−0·9	4	− 1·5	3·60	3·88	− 0·28	8·18	9·81	− 1·63	2·90	Trichinopoly.
7	0	0	0	0	4	14	6	0	S 49° W	S 36° W	7·9	4·7	+3·2	69	−10	71	−13	·634	−·062	3·8	−1·7	0	− 3·2	0·12	1·08	− 0·96	5·07	6·66	− 1·59	0·05	Coimbatore.
2	1	0	0	0	6	16	6	0	S 47° W	S 37° W	4·2	2·9	+1·3	76	+ 1	79	− 1	·757	−·022	7·1	+0·6	8	− 3·0	4·06	6·91	− 2·85	11·95	18·53	− 6·58	1·39	Salem.
2	0	0	0	0	2	23	4	0	S 48° W	S 73° W	6·3	1·7	+4·6	89	+17	67	−11	·760	−·103?	6·2	+0·7	1	− 6·8	0·37	5·13	− 4·76	8·34	10·38	− 2·04	0·10	Cuddalore.
5	0	0	0	0	0	0	26	0	W		5·0			84		71	0	·752	+·012	5·6	+0·2	4	− 4·3	4·81	6·10	− 1·29	11·68	16·07	− 4·39	3·37	Vellore.
4	0	0	0	0	1	23	2	1	S 49° W	S 66° W	3·1	5·0	−1·9	79	0	67	− 9	·774	−·062	6·2	−0·6	8	− 0·2	3·08	4·79	− 1·73	11·31	11·59	− 0·28	0·81	Madras.
3	4	0	0	0	0	1	12	11	N 61° W	N 82° W				72	−11	66	− 5	·735	−·031	7·7	+0·1	7	− 1·5	6·43	5·81	+ 0·62	8·90	14·25	− 5·35	3·65	Cuddapah.
0	2	0	0	0	2	4	14	9	N 82° W	N 85° W	6·8	6·2	+0·6	76	−10	63	− 5	·624	−·024	6·9	−0·7	3	− 1·4	1·38	2·33	− 0·95	3·71	8·05	− 4·34	0·92	Bellary.
1	0	0	0	0	0	5	19	6	N 89° W	N 89° W	8·8			89	+24	73	− 4	·703	−·031	8·2	+1·0	2	− 0·8	3·59	5·32	− 1·73	10·76	14·20	− 3·44	1·18	Kurnool.
3	0	0	0	0	0	12	14	2	S 71° W	N 68° W	4·0	6·9	−2·9	82	+ 7	67	− 3	·738	−·004	7·2	−0·9	4	− 1·9	1·57	3·42	− 1·85	6·01	8·13	− 2·12	0·57	Nellore.
2	1	0	0	0	1	4	12	11	N 77° W	N 72° W	6·7	5·6	+1·1	76	− 7	85	+ 2	·899	−·008	7·9	+0·1	13	+ 2·4	8·45	6·51	+ 1·54	17·98	18·76	− 0·78	3·00	Masulipatam.
4	0	0	0	0	0	10	17	0	S 74° W	S 74° W	6·4	5·6	+0·8	82	+ 3	87	+ 4	·905	+·026	8·8	+1·6	11	+ 1·1	4·97	5·43	− 0·46	14·98	17·38	− 2·40	1·27	Cocanada.
9	0	0	0	0	2	11	9	0	S 60° W	S 84° W	3·6			66	−15	82	+ 5	·868	−·004	7·3	−0·7	8	− 0·8	4·50	5·59	− 1·09	13·64	17·00	− 3·36	1·20	Waltair (Vizagapatam).
4	2	0	0	0	0	12	10	3	S 79° W		6·4			68		84		·916		6·2		7	− 4·0	3·85	9·77	− 5·92	21·17	23·32	− 2·15	1·04	Calingapatam.
1	3	0	0	0	12	12	1	2	S 34° W	S 63° W	6·7	8·0	−1·3	62	+ 4	87	+ 2	·948	+·023	7·2	+2·2	6	− 5·4	9·07	7·86	+ 1·21	25·75	22·73	+ 3·02	2·28	Gopalpur.
																															Bay Islands.
1	0	1	3	1	3	16	5	1	S 43° W					61		90		1·016		8·7		15		12·76	6·93	+ 5·83	26·27	24·67	+ 1·60	2·23	P. V. Fraser.
1	0	0	0	0	0	14	2	4	S 71° W	S 62° W	8·7	7·9	+0·8	86	+ 7	86	− 2	·885	−·029	8·5	+0·3	22	+ 2·8	17·93	14·50	+ 3·43	82·54	65·33	+17·21	4·17	Port Blair.
0	0	0	0	0	2	18	11	0	S 58° W		20·2			92		88	− 1	·927	−·011	8·9	+0·2	15	− 1·9	13·17	11·97	+ 1·20	50·72	50·12	+ 0·60	3·35	Table Island.
																															Kashmir.
25	0	0	0	0	6	0	0	0	S		1·6			19		71		·686		5·9		8		4·06	11·03	− 6·97	13·00	26·26	+ 3·26	1·30	Muzaffarabad.
9	3	2	1	3	4	0	5	4	N 72° W	S 48° E	2·8	2·6	+0·2	10	−22	73	−12	·579	−·037	3·4	−1·4	4	− 1·4	1·87	2·23	− 0·36	4·82	8·72	− 3·90	0·83	Srinagar.
13	0	8	5	4	0	0	0	1	N 75° E		2·7			43		75	− 4	·434	+·013	5·3	+0·1	9	− 1·1	3·53	4·82	− 1·29	11·65*	12·31†	− 0·66	1·30	Gulmarg.
30	0	0	0	0	0	1	0	0	S		7·5			3		57	− 5	·299	−·038	2·6	−1·5	0	− 1·1	0·02	0·44	− 0·42	0·42	4·47	− 4·05	0·02	Dras.
23	1	0	0	0	0	5	2	0	0	S 15° W	N 85° W	3·3	1·3	+2·0	17	−43	47	−12	·252	−·031	4·8	+0·3	1	− 0·7	0·16	0·50	− 0·34	0·27	1·36	− 1·09	0·10	Leh.
17	0	1	0	0	0	2	9	2	0	S 45° W		5·4			37		40	−14	·300	−·080	3·2	−0·9	0	− 1·1	0·03	0·39	− ·036	0·53	2·39	− 1·86	0·02	Skardu.
30	0	1	0	0	0	0	0	0	N 45° E		0·4			3		52	+ 5	·546	+·083	2·9	−1·0	0	− 1·8	0·11	0·	− 0·37	0·67	2·20	− 1·53	0·05	Gilgit.

* Since 16th May 1918.
† Since 1st June.

Table

(2) Abstract of observations taken at 8 hrs. at 214 station

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·202		25·171	25·242	27th	25·053	6th	84·4	69·9	100·1		74·2		87·2		25·9	105·1	7th & 10th.	67·9	11th
	Quetta	5,502	24·478	—·006	24·438	24·591	28th	24·381	15th	68·8	58·6	94·1	+2·9	60·6	−0·8	77·3	+1·1	33·5	99·5	17th	51·7	31st
	Chaman	4,311	25·462	−·031	25·424	25·584	28th	25·339	15th	79·4	62·9	97·7	0	71·4	0	84·5	0	26·3	104·1	17th	64·6	31st
	Kalat	6,630	23·625		23·587	23·722	28th	23·528	6th	62·7	52·8	90·3	−1·0	56·0		73·2		34·3	96·0	17th	48·4	31st
	Dalbandin	2,772	26·865		26·828	26·995	27th	26·720	15th	79·3	63·1	100·0*		63·9‡		85·3‡		42·1	112·0	17th	56·1	22nd
	Pasni		29·643		29·603	29·780	29th	29·508	7th	78·5	74·6	88·6†		65·5		79·5†		19·1	89·6	3rd	64·1	31st
	Panjgur		26·509		26·467	26·613	28th	26·380	15th	77·9	63·5	101·6		72·7		87·1		28·9	108·2	16th	61·8	29th
	Robat		26·664		26·622	26·854	29th	26·545	23rd	82·7	66·1	104·8		69·3		87·1		35·5	111·3	24th & 25th.	60·5	27th
	Seistan (*c*)		27·828			27·990	27th, 28 & 29th.	27·690	15th & 24th.	77·9	59·8	99·5		72·2		85·8		27·3	109·9	15th	63·8	30th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·228	−·017	24·274	24·474	17th	24·197	6th	75·8	64·8	88·1	+2·5	66·8	+2·0	77·4	+2·3	21·3	94·6	6th	60·1	11th
	Cherat	*4,256*	25·516	−·014	25·464	25·676	27th	25·349	6th	76·6	67·3	89·5	+2·9	71·9*	+2·0*	80·6*	+2·5	17·6	99·8	7th & 15th.	63·4	28th
	Drosh (*c*)		24·855			24·975	27th 28th & 29th.	24·700	6th	79·7	66·7	101·5	+6·2	74·1	+2·2	87·8	+4·2	27·4	105·3	18th	64·8	31st
	Murree	8,333	23·702	−·039	23·670	23·830	27th	23·564	6th	67·0	61·4	75·2	+1·3	62·6	+2·0	68·9	+1·7	12·6	85·6	7th	47·5	4th
	Simla	7,232	23·000	− 009	22·962	23·127	27th	22·875	6th	62·2	60·0	67·1	+0·4	59·3	+0·1	63·2	+0·3	7·8	71·7	7th	55·4	3d
	Chakrata	7,072	23·240	?	23·200	23·395	27th	23·100	6th	64·0	62·4	70·0	+1·5	60·6	+1·0	65·3	+1·3	9·4	75·3	6th	56·9	27th
	Mukteswar	7,592	22·736	−·025	22·695	22·871	27th	22·600	6th	60·6	59·3	69·7	+0·9	56·0	−1·7	62·8	−0·4	13·7	76·0	14th	52·6	27th
	Darjiling	7,432	22·864	−·034	22·819	22·988	27th	22·758	5th	60·8	59·3	66·3	+0·4	57·6	+0·2	61·9	+0·3	8·7	72·9	15th	54·0	26th.
	Shillong	4,920	25·007	−·028	24·959	25·107	27th	24·881	5th	65·4	65·9	73·9	−1·1	63·5	0	68·7	−0·5	10·4	79·9	15th	60·7	13th & 29th
	Cherrapunji	4,309	25·550	−·030	25·501	25·648	27th	25·425	14th	67·6	66·5	71·6	−0·4	64·8	−0·2	68·2	−0·3	6·8	76·7	15th	63·3	21st
	Netarhat		25·985		25·938	26·017	25th & 27th.	25·960	1st & 2nd.	71·3	69·8	75·5		?		?		?	82·2	1st	?	
	Maymyo	3,516	26·300	− 030	26·245	26·365	17th	26·169	14th	69·1	67·2	75·3	−1·2	66·2	+0·7	70·7	−0·3	9·1	82·8	28th	62·6	27th
	Pachmarhi	3,528	26·262	−·011	26·209	26·371	11th	26·164	15th	67·9	66·8	75·7	+0·8	66·4	−0·6	71·0	+0·1	9·3	79·0	11th	65·1	4 days.
	Mount Abu	3,945	25·850	−·016	25·800	25·942	11th	25·766	15th	65·8	64·6	74·9	+2·9	63·7	−0·7	69·3	+1·1	11·2	78·6	14th	61·4	25th & 26th.
	Mercara	2,781	26·185	+·003	26·118	26·237		26·133	14th	63·9	63·3	70·9	+1·2	61·3	−0·8	66·1	+0·2	9·6	74·8	9th	59·4	14th & 16th.
	Ootacamund	*7,327*	23·030	+·025	22·966	23·084	11th	22·975	14th	56·3	54·1	63·5	+0·8	51·1	−1·0	57·3	−0·1	12·4	69·2	8th	45·9	24th
	Kodaikanal	7,688	22·801	+·013	22·736	22·862	11th	22·745	15th	57·1	53·6	64·9	+1·8	51·5	−1·0	58·2	+0·4	13·4	69·4	9th	49·4	16th
	Extra India.																					
	Singapore (*a*)	10	29·871	−·059	29·802	29·950	4th	29·785	13th	84·3		88·3	+0·9	75·2	+1·6	81·7	+1·3	13·1	91·0	28th	72·0	4th & 28th.
	Penang (*a*)	17	29·817	−·098	29·759	29·857	27th	29·746	21st	81·6		89·3	+0·4	73·1	−0·6	81·2	−0·1	16·2	92·0	17th	69·0	19th & 22nd.
	Trincomalee	99	29·757	+·008	29·784	29·846	12th	29·690	14th	79·8	73·9	95·2	+3·5	77·7	+0·7	86·4	+2·1	17·5	98·1	8th	72·9	10th
	Colombo	24	29·920	+·024	29·870	29·971	12th	29·885	29th	78·7	75·1	85·7	−0·3	77·3	−0·1	81·5	−0·2	8·4	86·9	1st	73·5	5th
	Hambantota	64	29·851		29·841	29·913	12th	29·816	20th	77·1	74·9	86·8		76·3		81·6		10·5	93·5	1st	75·4	21st, 27th & 28th.
	Minicoy	7	29·955	+·035		30·005	27th	29·909	19th													
	Amini Divi	*13*	29·899	+·005	29·840	29·954	30th & 31st.	29·838	20th	82·4	77·7	86·6	+1·2	77·7	+0·4	82·2	+0·8	8·9	89·2	4th	73·3	28th
	Gangtok	5,667	24·348	−·020	24·303	24·497	26th	24·235	6th	65·7	63·9	73·2	−1·4	61·9	+6·3	67·6	+2·5	11·3	80·3	3rd	53·6	26th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(*a*) 9 hrs. observations.
(*c*) Aneroid.

* Mean of 30 days.
† " " 8 "
‡ " " 19 "

B—*continued.*

n India, etc., in August, 1918—*continued.*

Wind direction. Number of winds from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
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	54	55
																														Baluchistan.
2	2	0	0	0	0	2	1	N 18° W		3·4			13		49		·567		1·0		1		1·08	1·48	−0·40	2·53	4·70	−2·17	1·02	Fort Sandeman.
0	0	1	0	1	0	0	0	S 45° E	S 22° W	1·7	2·0	−0·2	3	−3	55	−1	·392	−·087	1·5	+0·4	0	−0·7	0·06	0·41	−0·35	0·20	1·61	−1·41	0·63	Quetta.
0	0	6	7	10	4	1	0	S 22° E	S 61° W	4·6	6·1	−1·5	68	+15	39	−8	·369	−·015	0·7	+0·2	0	−0·1	0	0·02	−0·02	0	0·25	−0·25	0	Chaman.
0	0	0	0	0	0	0	0	Calm	S 16° W	4·5			(a)		52	+11	·303	−·059	1·5		0	−0·4	0	0·18	−0·18	0·00	1·36	−1·27	0	Kalat.
0	0	2	0	1	1	9	7	1	S 62° W	5·3			43		38		·393		0·6		0		0	0·08	−0·08	0	0·23	−0·23	0	Dalbandin.
0	1	4	2	2	8	9	1	S 50° W		6·7			40		32		·800		8·3		0		0	0·08	−0·08	0·01	1·75	−1·74	0	Pasni.
2	4	5	0	1	2	4	4	N 5° W		4·7			17		41		·415		1·3		0		0			0·35			0	Panjgur.
0	1	2	2	0	9	9	0	S 58° W		4·2			43		40		·454		0		0		0	0	0	0	0·04	−0·04	0	Robat.
2	0	0	0	0	0	0	25	N 41° W		12·2			82		31		·214		0		0		0			0			0	Seistan.
																														Hill stations, excluding Kashmir and Baluchistan.
0	0	0	0	0	0	0	0	Calm		0·7			(a)		57	−4	·488	−·031	2·9	−1·4	4	−2·8	1·61	3·47	−1·86	6·82	11·61	−4·79	0·72	Para Chinar.
2	0	0	8	4	1	2	3	S 8° E	S 31° E	4·5	5·9	−1·4	20	−8	64	−12	·562	−·079	3·2	−1·1	4	−2·1	1·97	4·02	−2·05	7·37	10·63	−3·31	0·79	Cherat.
0	0	0	0	0	1	0	0	S 45° W		3·4			3		50	−8	·503	−·053	2·3	0	2	−0·8	0·32	0·72	−0·40	1·91	3·99	−2·08	0·13	Drosh.
6	0	1	5	0	0	0	0	N 61° E	N 46° W	2·8	3·9	−1·1	20	−2	75	−8	·487	−·043	4·9	−0·3	12	−2·6	11·53	14·11	−2·58	21·13	32·55	−11·42	3·87	Murree.
															89	−2	·495	−·008	7·8	−0·4	17	−2·8	14·11	18·12	−4·01	46·19	43·84	+2·35	4·32	Simla.
0	3	0	0	0	15	4	1	S 58° W	S 39° E	8·0	3·9	+4·1	53	+45	92	−1	·544	+·024	8·6	+2·3	13	−7·3	12·38	19·38	−6·40	29·53	49·70	−20·17	3·94	Chakrata.
1	0	0	4	5	0	13	0	S 16° W		5·6			40		93	−1	·491	−·017	8·6	−0·1	15	−2·9	6·78	12·78	−6·00	19·23	33·69	−14·46	1·03	Mukteswar.
0	1	3	3	1	0	2	2	S 61° E	N 68° E	1·5	2·7	−1·2	7	−33	93	−3	·491	−·030	9·3	+0·3	26	+1·6	36·98	27·71	+9·27	102·02	94·27	+7·75	5·75	Darjiling.
0	0	1	1	0	0	0	0	S 66° E		1·5			7		87	0	·607	+·014	8·4	+0·8	23	+2·7	13·91	14·66	−0·75	72·39	58·37	+13·93	1·82	Shillong.
1	6	6	7	6	3	1	0	S 57° E		5·0			46		94	−2	·620	−·019	9·7	+1·0	25	−2·7	82·87	82·91	−0·04	440·16	322·40	+117·76	14·37	Cherrapunji.
1	1	1	4	1	7	4	10	W		3·2			30		93		·712		7·7		23		21·19			48·96			2·90	Netarhat.
0	2	0	1	1	15	3	0	S 46° W		2·4			59		90	0	·645	−·023	7·8	+0·2	14	−1·0	8·14	8·79	−0·65	31·63	34·13	−2·69	1·58	Maymyo.
0	0	0	0	0	7	23	1	S 82° W	S 87° W	5·8	6·8	−1·0	96	+20	95	+3	·646	−·009	9·9	+0·9	19	−2·5	19·52	22·83	−3·31	49·86	56·54	−15·68	3·95	Pachmarhi.
0	0	0	0	1	21	3	1	S 50° W	S 59° W	7·8	8·2	−0·4	89	+11	91	−1	·508	−·017	9·3	+0·4	8	−9·9	26·70	19·64	+7·06	33·20	47·70	−14·50	9·95	Mount Abu.
0	0	0	0	0	11	16	4	S 80° W	N 76° W	5·7	6·1	−0·4	89	−1	96	0	·571	−·013	9·3	−0·1	25	−1·3	22·07	25·68	−3·61	52·36	89·92	−37·56	13·80	Mercara.
0	0	0	1	0	2	16	8	N 81° W		5·7			72		88	+1	·397	+·001	9·4	+1·3	13	−0·5	6·04	5·61	+0·43	20·52	29·30	−8·78	1·03	Ootacamund.
0	0	2	3	1	2	12	11	N 79° W		9·2			56		81	+1	·374	−·006	5·6	−0·7	11	−1·7	5·73	6·74	−1·01	19·63	21·77	−2·14	1·40	Kodaikanal.
																														Extra India.
0	1	2	7	5	8	0	1	S 12° E					43						6·4	+0·6	6	−6·5	2·60	6·81	−4·21	30·44	26·25	+4·19	1·02	Singapore.
2	13	0	11	2	1	0	2	N 82° E					49								14	+0·2	8·86	11·17	−1·21	25·47	34·32	−8·85	3·90	Penang.
0	0	0	0	1	18	11	0	S 90° W	S 45° W	7·0	10·2	−3·2	89	−8	75	−6	·762	−·091	6·5	+3·7	2	−3·2	1·21	4·32	−3·11	3·66	9·93	−6·27	0·80	Trincomalee.
0	0	0	0	0	18	6	0	S 56° W	S 61° W	4·5	6·7	−2·2	76	−12	84	+2	·820	−·047	8·6	+2·2	8	+1·7	2·03	3·32	−1·23	23·33	27·32	−3·99	0·46	Colombo.
0	0	0	0	0	9	22	0	S 77° W		10·7			96		89		·828	−·034	5·4		6		1·11	1·22	−0·11	9·79	8·21	+1·58	0·41	Hambantota.
0	0	0	0	0	0	19	12	N 72° W	N 79° W	7·2	10·9	−3·7	90	0					5·1	−0·5	16	+5·2	11·84	7·11	+4·73	37·40	32·68	+4·72	2·52	Minicoy.
0	0	0	0	3	21	7	0	N 84° W		14·7			90		80	−3	·885	−·004	7·0	0	11	+0·1	8·97	7·49	+1·48	35·68	36·50	−0·82	4·31	Amini Divi.
0	1	0	0	0	0	1	0	N 19° W		0·8			4		91	−1	·576	−·022	4·9	−1·0	25	−2·2	30·97	23·36	+7·61	91·45	88·68	+2·77	3·74	Gangtok.

(a) Indeterminate.

Tabl

(2) Abstract of observations taken at 8 hrs. at 21

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*contd.*																					
	Kashgar (*c*)* . . .	4,255	25·379	—·111		25·598	21st	25·290	9th	74·6	66·2	95·9	+6·1	65·8	+0·2	80·9	+3·1	30·1	104·8	17th	58·5	24th
	Kabul (*c*)	...	23·975	—160		24·093	28th	23·890	6th	78·1	67·3	101·3	+7·8	72·6	+13·1	87·0	+10·5	28·7	105·6	3rd	66·2	2nd & 21st.
	Meshed	3,104																				
	Jask	13	29·568	—·027	29·532	29·728	29th	29·392	15th	87·2	81·5	95·7	+1·4	84·7	+0·6	90·2	+1·0	11·0	104·1	15th	82·2	7th
	Muscat	20	29·557	—·025	29·525	29·737	29th	29·380	15th	87·0	81·0	92·4	+3·3	83·9	—0·1	88·1	+1·6	8·5	101·8	16th	81·2	23rd
	Bushire	14	29·550	+·006	29·526	29·660	12th	29·431	21st	89·3	81·3	96·2	—0·7	83·7	—0·2	89·9	—0·5	12·5	106·2	5th	76·4	28th
	Busrah	25	29·582	+·013	29·576	29·713	28th	29·480	3rd	87·3	69·7	105·9	+1·7	76·4	—4·6	91·2	—1·5	29·5	113·6	13th	68·1	24th
	Ispahan (*c*) . . .	*5,817*	24·199	—·091		24·310	17th	24·020	22nd & 23rd	71·3	57·5	91·1	—1·8	64·0	+0·8	79·0	—0·5	30·1	99·4	14th	58·2	19th
	Tehran (*c*) . . .	*4,002*	25·651	—·099		25·800	17th	25·440	23rd	77·9	65·1	94·8	—2·7	70·2	—0·8	82·5	—1·7	24·6	102·5	14th	63·8	24th
	Baghdad	127	29·505			29·642	28th	29·429	7th	81·5	62·3	10·0	—2·0	78·8	—0·4	93·4	—1·2	29·2	116·2	4th	70·1	23rd
	Aden	94	29·652	+·002	29·677	29·739	22nd	29·556	15th	83·3	78·1	91·3	—0·7	80·6	+0·2	86·0	—0·3	10·7	95·8	5th	77·3	29th
	Zanzibar . . .	72	30·142	+·058	30·141	30·177	27th & 28th	30·105	3rd & 25th	74·5	70·7	80·1	—1·0	72·0	—0·7	76·0	—0·9	8·1	82·3	17th	70·8	10th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*c*) Aneroid.

* Mean of 25 days.

B—*concluded.*

stations in India, etc., in August, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Extra India —*contd.*
20	0	1	0	0	0	1	1	2	N 63° W	N 48° W	0·8	3·1	−2·3	8	+ 1	64	+11	·550	+·099	4·0	+0·7	0	−1·9	0	0·60	−0·60	0·51	1·80	−1·30	0	Kashgar.
0	4	3	0	0	0	8	14	2	N 84° W.	S 88° E				61	+47	59	+12	·567	+·161	4·2	+3·8	0	−0·5	0	0·14	−0·14	0·18	1·26	−0·78	0	Kabul.
																									0·03			1·68			Meshed.
1	4	1	18	2	0	0	2	3	N 71° E	S 74° E	8·9	10·5	−1·6	53	−23	78	+1	·995	−·035	1·9	−0·8	0	0	0	0	0	0	0·08	−0·08	0	Jask.
9	0	5	12	0	0	1	0	4	N 65° E	S 76° E	2·5	3·2	−0·7	43	−17	77	− 4	·975	−·033	2·0	−0·8	0	0	0	0·01	−0·01	0	0·17	−0·17	0	Muscat.
13	2	0	0	2	0	2	4	8	N 63° W	N 59° E	5·1	5·3	−0·2	37	+15	70	+ 2	·967	−·020	1·4	+0·6	0	0	0	0·01	−0·01	0·05	0·03	+0·02	0	Bushire.
0	0	1	0	0	0	6	21	3	S 88° W		7·0			87		38		·496		0·4		0	0	0	0	0	0	0·33	−0·33	0	Busrah.
28	0	0	0	0	0	0	1	2	N 63° W	N 34° W	1·3	1·6	−0·3	6	−13	44		·338	−·135	0·5	−0·2	0	0	0	0	0	0·16	0·28	−0·12	0	Ispahan.
22	0	3	0	0	1	4	0	0	S 27° W	S 14° W	3·7	2·8	+0·9	6	− 5	50	+ 9	·475	+·046	1·2	+0·2	0	−0·2	0	0·04	−0·04	0·43	0·78	−0·35	0	Tehran.
1	6	3	0	0	0	1	4	18	N 41° W	N 4° W	10·3			82	+21	29		·310		0		0	−0·1	0	0·04	−0·04	0·18	0·25	−0·07	0	Baghdad.
5	2	3	2	9	5	3	1	1	S 33° E	S 12° W	8·6	7·8	+0·8	37	−17	78	+ 5	·891	+·014	3·7	0	0	−0·3	0·07	0·12	−0·05	0·07	0·33	−0·26	0·07	Aden.
0	0	0	1	2	15	12	0	0	S 14° W	S 1° W	5·0	5·0	0	84	− 2	82	− 3	·699	−·032	6·5	+0·2	3	−1·2	0·60	1·69	−1·09	21·39	16·89	+4·50	0·21	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 59 fourth and fifth class stations in India, etc., in August, 1918.

Tabl

Abstract of observations taken at 8 hrs. at 59 fourt

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. we bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	79·9	77·9	89·7	+0·3	75·9	+1·8	82·8	+1·1	13·8	96·3	22nd	72·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·3	77·3	89·4	−0·8	74·5	−0·9	81·9	−0·9	14·9	96·0	29th	69·6	27th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	79·1	78·2	93·5	+3·9	74·3	−1·1	83·9	+1·4	19·2	100·6	22nd	72·6	9th & 17th.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·6	77·1	91·4	+1·9	76·0	+0·9	83·7	+1·4	15·4	99·3	15th	73·7	26th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	79·4	77·3	88·5	−0·1	76·3	+0·4	82·4	+0·1	12·2	97·0	15th	74·2	19th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	78·7	77·7	86·2	+0·2	75·9	...	81·1	...	14·3	94·9	15th	70·4	21st	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	79·8	77·6	86·9	−0·2	74·3	−1·6	81·6	−0·9	14·6	93·2	16th	66·2	8th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	79·5	77·5	88·3	−0·9	75·8	−0·5	82·1	−0·7	12·5	93·3	29th	73·2	22nd	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	80·1	77·5	89·9	...	76·2	...	83·0	...	13·7	94·7	15th	73·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Messa	84·4	79·4	93·5	+0·5	75·3	−0·2	84·4	+0·1	18·2	97·2	15th	71·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	77·3	75·6	88·6	+0·3	72·6	−2·1	80·6	−0·9	16·0	96·7	29th	67·5	30th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	80·7	77·3	87·5	−0·6	75·6	−1·7	81·5	−1·1	11·9	90·2	3rd & 16th	72·9	8th	...	...	...	...	...	...	...	...	...	...	...
	Tangail	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	83·3	79·7	86·9	−0·8	77·1	−0·7	82·0	−0·7	9·8	91·0	5th	74·1	13th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	81·5	79·0	88·4	−3·6	76·8	+0·9	82·6	−1·3	11·6	91·3	15th	73·1	9th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	78·9	76·9	90·4	−0·7	72·4	−2·2	81·4	−1·5	18·0	97·9	14th	69·0	29th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·5	77·0	87·9	−0·8	73·7	−1·0	80·8	−0·9	14·2	94·1	15th	68·0	26th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·9	75·7	88·3	−0·1	74·1	−0·5	81·2	−0·3	14·2	93·1	29th	69·0	7th & 26th.	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Observations of 30 days.

C.

and fifth class stations in India, etc., in August, 1918.

Wind velocity			Wind steadiness		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	91	−3	·928	−·011	...	...	23	+4·8	31·27	20·26	+11·01	99·78	64·35	+35·43	3·91	Bishnath.
...	...	...	...	...	87	− 4	·902	−·038	...	...	15	−2·5	17·25	15·12	+2·13	77·67	59·45	+18·22	3·76	Borjuli.
...	...	...	...	...	96	+ 5	·955	+·019	...	...	23	+3·0	20·72	13·11	+7·61	83·67	74·15	+9·52	6·00	Chandkhira.
...	...	...	..	...	93	− 1	·910	−·011	...	...	21	+3·7	14·50	17·76	−3·26	64·84	62·73	+2·11	2·01	Doom Dooma.
...	...	...	...	...	91	− 2	·906	−·008	...	...	15	−4·8	20·54	19·27	+1·27	70·26	67·18	+3·08	4·35	Dikom.
...	...	...	...	...	95	+ 4	·930	−·009	...	...	20	+3·3	19·24	12·35	+6·89	58·56	44·57	+13·99	4·35	Golaghat.
...	...	...	...	...	90	− 1	·918	+·011	...	...	23	−0·5	19·66	16·69	+2·97	95·39	79·25	+16·14	2·90	Hailakandi.
...	...	...	...	...	91	+ 1	·915	−·017	...	...	19	+0·2	18·78	15·58	+3·20	67·26	52·50	+14·76	2·77	Jorehat.
...	...	...	...	...	89	...	·901	...	...	...	14	+3·3	10·66	7·32	+3·34	37·13	30·30	+6·83	2·00	Lumding.
...	...	...	...	...	79	− 8	·931	−·021	...	...	21	+0·8	23·31	17·58	+5·73	67·38	56·88	+10·50	4·30	Messa.
...	...	...	...	...	93	− 2	·865	+·005	...	...	20	+6·5	24·30	11·25	+13·05	91·78	55·25	+39·53	3·51	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	21	+3·3	15·02	16·12	−1·10	69·83	61·76	+8·07	2·75	Comilla.
...	...	...	...	...	85	− 2	·885	−·051	...	...	21	+2·0	10·38	12·60	−2·22	57·66	56·82	+0·84	1·90	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	19	+1·9	18·85	11·97	+6·88	66·55	47·40	+19·15	2·22	Faridpur.
...	...	...	...	...	85	− 1	·967	+·009	...	...	16	−0·2	19·00	10·98	+8·02	56·83	44·13	+12·70	3·38	Goalundo.
...	...	...	...	...	89	+ 2	·959	−·014	...	...	16	+1·5	11·74	8·74	+3·00	38·66	41·15	−2·49	3·06	Pabna.
...	...	...	...	...	...	...	...	...	...	...	19	+4·0	20·79	11·11	+9·68	55·55	43·70	+11·86	5·95	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	15	+0·9	23·12	9·98	+13·14	58·20	37·38	+20·82	8·13	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	18	+3·5	34·55	10·91	+23·64	74·45	35·85	+38·60	7·40	Malda.
...	...	...	...	...	...	...	...	...	...	...	16	+1·9	26·83	13·65	+13·17	102·16	56·76	+45·40	6·90	Rangpur.
...	...	...	...	...	91	− 4	·893	−·055	...	...	21	−1·5	28·34	32·18	−3·84	111·71	116·13	−4·42	8·12	Dam Dim.
...	...	...	...	...	84	− 3	·889	−·049	...	...	18	+2·8	22·17	33·84	−11·67	128·38	109·65	+18·73	4·88	Kalchini.
...	...	...	...	...	83	− 6	·862	−·041	...	...	23	+0·2	34·26	32·99	+1·27	114·94	115·16	−0·22	7·44	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	16	−2·5	27·63	25·18	+2·45	128·59	101·71	+26·88	5·50	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	20	+5·5	15·58	9·98	+5·60	48·50	38·98	+9·52	2·48	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	20	+4·4	14·54	11·02	+3·52	37·89	39·05	−1·16	2·50	Bankura.
...	...	...	...	...	...	...	...	...	...	...	18	+2·0	13·56	11·36	+2·20	31·83	37·36	−5·53	2·64	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	19	+1·1	17·29	12·84	+4·45	34·85	36·72	−1·87	3·35	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	17	+4·4	22·71	11·31	+11·40	39·34	35·14	+4·20	6·03	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	14	+0·7	17·33	14·10	+3·23	42·13	37·23	+4·90	2·95	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	12	−1·9	11·67	14·23	−2·56	43·98	40·93	+3·05	3·76	Motihari.
...	...	...	...	...	...	...	...	...	...	...	15	+2·1	18·40	11·56	+6·84	37·68	30·85	+6·83	3·40	Chapra.
...	...	...	...	...	...	...	...	...	...	...	15	+1·1	13·68	11·91	+1·77	27·02	32·11	−5·09	2·40	Arrah.
...	...	...	...	...	...	...	...	...	...	...	20	+5·6	23·09	13·13	+9·96	34·47	30·33	+4·14	5·48	Dehri.

Tabl

Abstract of observations taken at 8 hrs. at 59 fourt

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	73·9	69·8	82·2	...	71·1	...	76·7	...	11·1	86·2	14th	68·7	26th & 29th	10	0	0	0	0	0	2	10	9	N 74° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	79·3	75·2	94·1	...	74·9	...	84·5	...	19·2	98·7	9th	72·8	18th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	82·6	76·2	95·1	...	77·6	...	86·3	...	17·5	102·5	29th	73·5	16th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	70·2	69·3	76·4	...	67·6	...	72·0	...	8·8	82·0	15th & 19th	63·8	15th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
17	Jammu	84·2	77·0	95·3	...	79·6	...	87·7	...	15·2	106·9	7th	71·?	10th	0	11	12	4	0	2	1	0	1	N 33° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	71·8	55·8	89·7	...	52·7	...	71·2	...	37·0	95·3	17th	47·5	11th	16	8	0	0	0	0	0	0	7	N 21° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Paniḥatta	77·3	74·8	86·9	−0·3	72·8	−1·0	79·9	−0·7	14·1	92·9	31st	69·6	26th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	69·8	69·1	74·3	+1·3	64·4	−0·3	69·3	+0·5	9·9	77·9	14th	62·4	26th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringiim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo*	...	...	80·8	P	57·9	P	69·4	P	22·9	81·6	31st	53·0	28th	2	0	0	0	1	1	0	0	0	S 27° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	akloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	93·6	−2·8	57·9	−1·8	75·7	−2·3	35·7	99·4	17th	50·4	31st	...	...	...	...	...	...	...	...	...	...	...

* Observation of 4 days.

C—*continued.*

and fifth class stations in India, etc., in August, 1918—*continued.*

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	7	−3·2	9·50	8·69	+0·81	11·02	21·57	−10·55	4·55	Meerut.
...	...	...	...	...	...	...	...	...	...	...	14	−8·0	16·65	29·69	−13·04	36·86	65·27	−28·41	4·35	Debra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	6	−3·2	8·65	6·18	+2·47	13·45	17·66	−4·21	2·90	Udaipur.
																				XII.—Central Provinces.
3·5	...	...	58	...	81	...	·680	...	8·6	...	11	...	7·56	10·17	−2·61	26·89	27·40	−0·52	1·60	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	13	+3·0	3·30	6·85	−3·55	16·10	20·72	−4·62	0·55	Parbhani.
																				XV.—Madras.
...	..	...	...	...	...	...	...	...	...	...	0	−1·1	0·05	0·51	−0·46	2·56	2·96	− 0·40	0·03	Tinnevelly.
...	...	...	...	...	74	...	·815	...	2·5	...	12	+2·8	3·12	5·57	−2·45	12·41	17·38	− 4·97	0·48	Anantapur.
...	...	...	...	...	82	...	·822	...	7·3	...	1	−3·9	0·35	3·18	−2·83	4·81	9·76	− 4·95	0·22	Guntur.
...	...	...	...	...	93	...	·701	...	...	...	20	...	13·95	...	...	53·02	...	...	2·55	Korapat.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	10·52	...	...	45·61	...	...	Car Nicobar.
																				Kashmir.
...	...	...	65	...	73	...	·847	...	4·4	...	9	−2·1	17·63	11·35	+6·28	22·92	27·09	− ·417	5·58	Jammu.
...	...	...	...	...	...	...	...	...	...	...	6	−3·2	2·24	3·47	−1·23	8·74	15·10	− 6·36	0·72	Sonamarg.
...	...	...	45	...	36	...	·278	...	2·5	...	0	−0·7	0	0·15	−0·15	0·09	1·55	− 1·46	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−3·7	0·03	2·24	−2·21	2·07	5·82	− 3·75	0·03	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	89	+ 1	·827	−·041	...	...	25	+3·3	41·66	31·21	+10·45	126·83	101·66	+ 25·17	5·92	Panighatta.
...	...	...	...	...	96	+3	·703	+·074	...	...	26	+0·7	49·52	36·58	+ 12·94	139·00	123·65	+ 15·35	13·19	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	29	...	36·94	31·45	+5·49	140·42	116·69	+ 23·73	3·95	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	28	...	13·03	11·21	+1·82	39·33	36·41	+ 2·92	1·20	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	26·86	...	...	109·39	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	11	...	10·64	...	...	32·32	...	...	3·20	Dharampur.
...	...	...	...	...	...	...	...	...	...	...	15	−7·4	14·76	31·29	−16·53	35·78	72·23	− 36·45	3·32	Mussooree.
...	...	...	50	...	...	...	...	...	3·7	...	0	...	0	0·61	?	0·24?	2·40	?	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	−1·9	0·41	1·46	−1·05	3·28	6·31	− 3·03	0·12	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	0	...	0	−0·2	0	0·13	−0·13	0	0·44	− 0·44	0	Pishin.

Tabl

Abstract of observations taken at 8 hrs. at 59 fourt

Number of sub-division.	Station.	Temperature of air.													Wind direction.											
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	55·6	54·2	65·1	...	51·3	...	58·2	...	13·8	69·7	24th	47·5	27th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	96·8	72·6	111·7	...	79·3	...	95·5	...	32·4	117·5	15th	71·0	23rd	1	9	0	0	0	0	1	1	19	N 35° W	...
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	87·3	71·6	104·8	..	72·3	...	88·5	...	32·5	111·8	14th	62·6	26th	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah	87·7	65·3	109·6	...	74·1	...	91·9	...	35·5	115·6	4th	66·0	23rd	...	...	...	...	...	...	...	...	...	...	...
	Shahroban	87·2	69·2	108·1	...	68·7	...	88·4	...	39·4	115·0	8th	60·0	23rd, 24th & 25th.	...		...	...	...	...	...		...	...	...

C—*concluded.*

and fifth class stations in India, etc., in August, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st August 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	93	...	·410	...	5·6	...	16	...	9·66	5·89	+3·77	26·02	21·86	+4·16	1·58	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	3	−1·8	1·45	1·53	−0·08	17·62	27·27	−9·65	0·50	Pemba.
...	...	...	86	...	33	...	·621	...	...	...	0	...	0	...	...	0·06	...	...	0	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amara.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
6·0	...	...	...	...	41	...	·575	...	0·1	...	0	...	0	...	...	0	...	...	0	Kurna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mohammerah.
...	...	...	...	...	25	...	·360	...	...	...	0	...	0	...	...	0·22*	...	...	0	Nasiriyah.
...	...	...	...	...	37	...	·466	...	0·3	...	0	...	0	...	...	0·36	...	...	0	Shahroban.

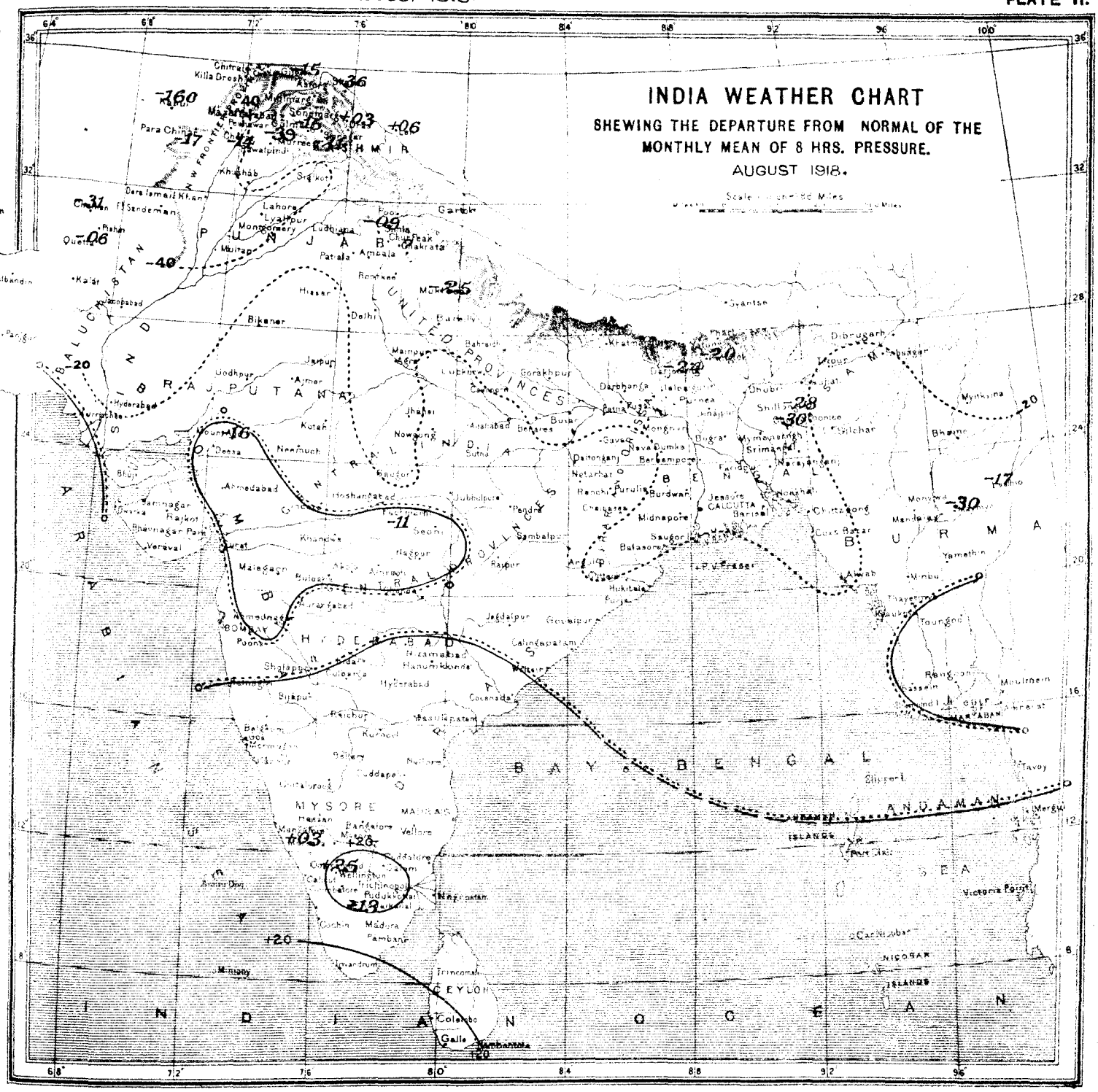
* Rainfall for July wanting.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

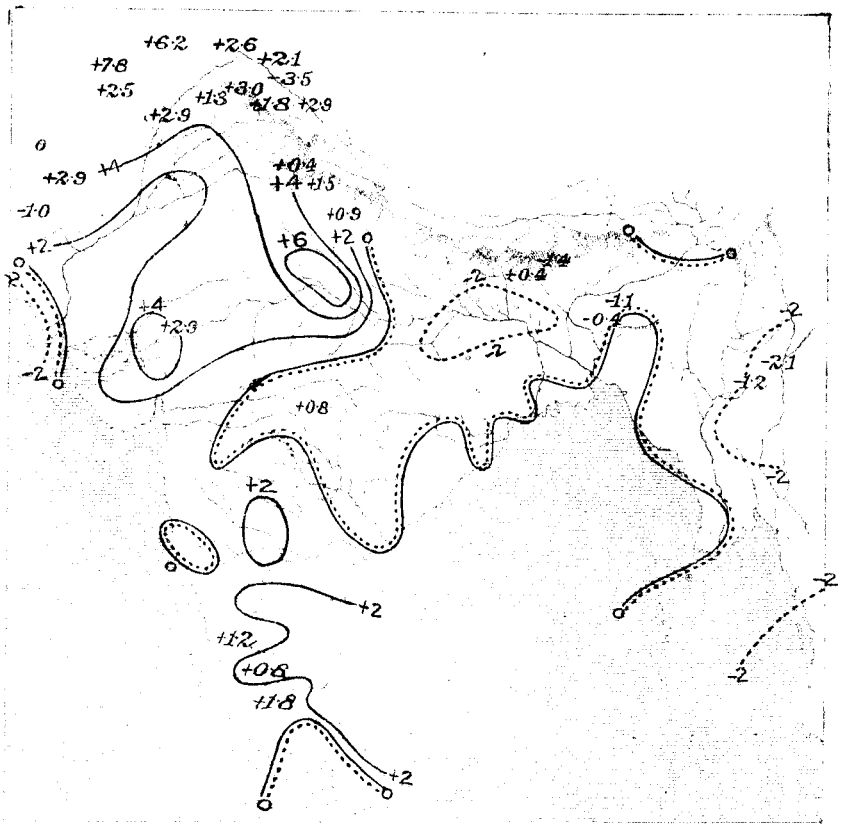


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

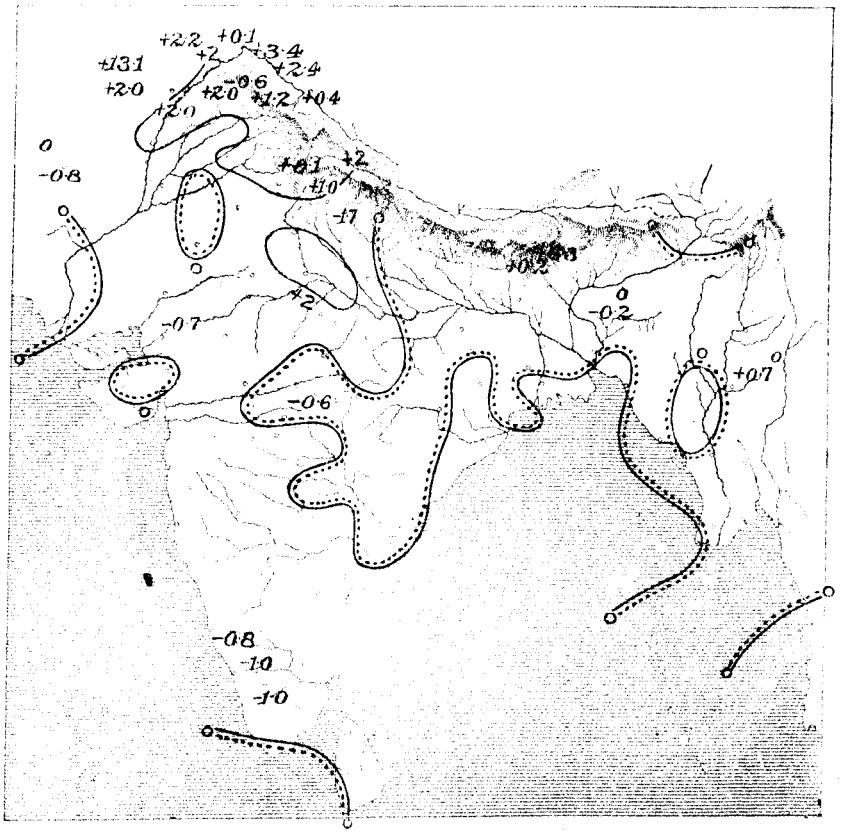


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

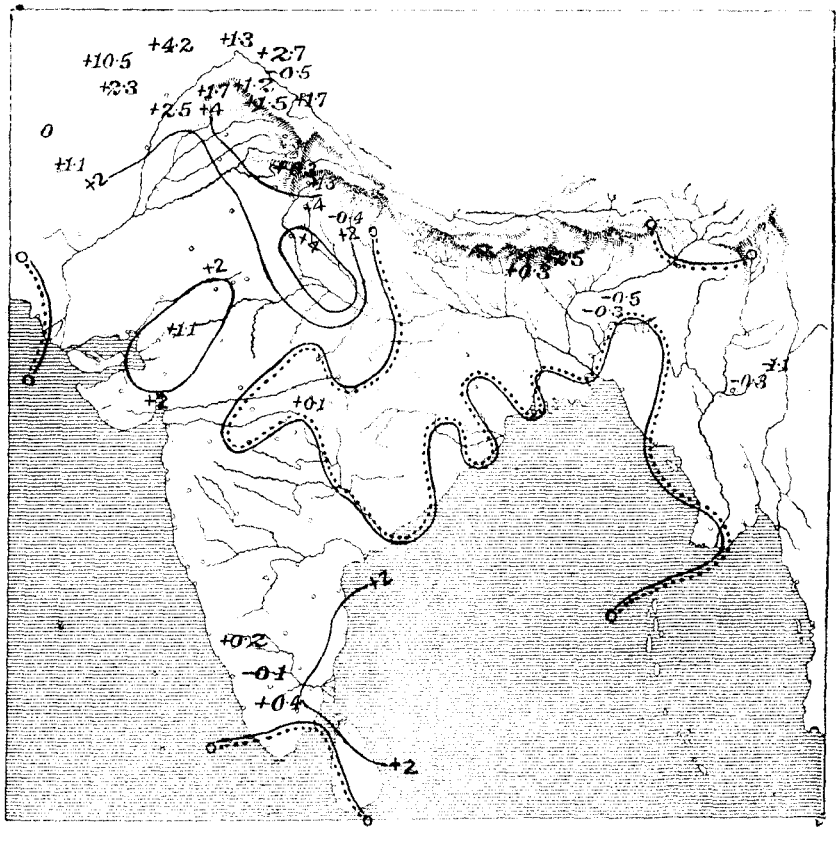


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

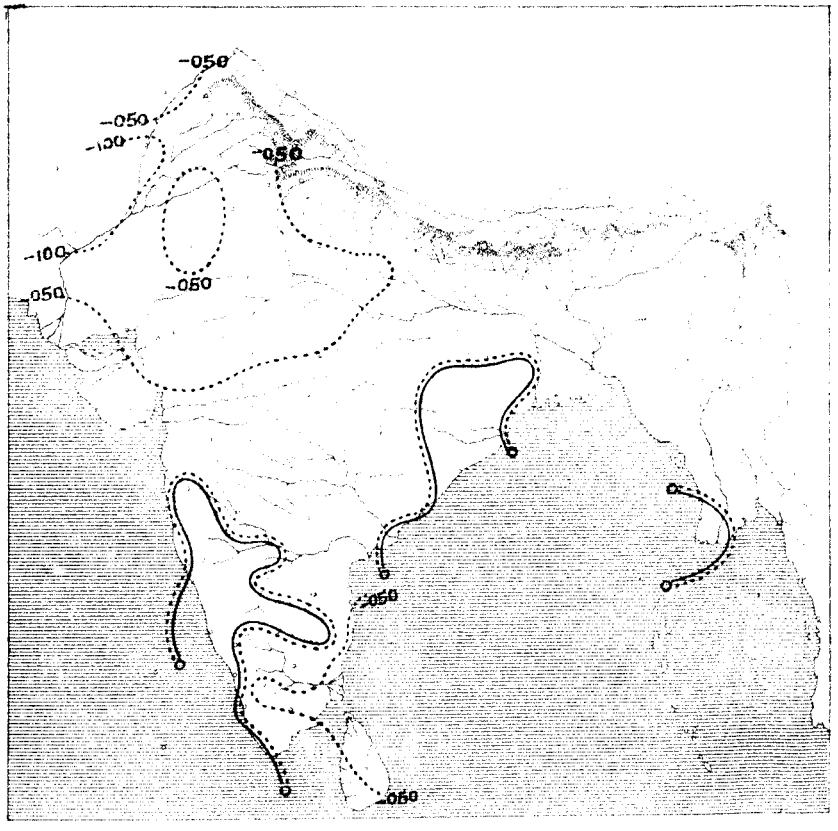


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

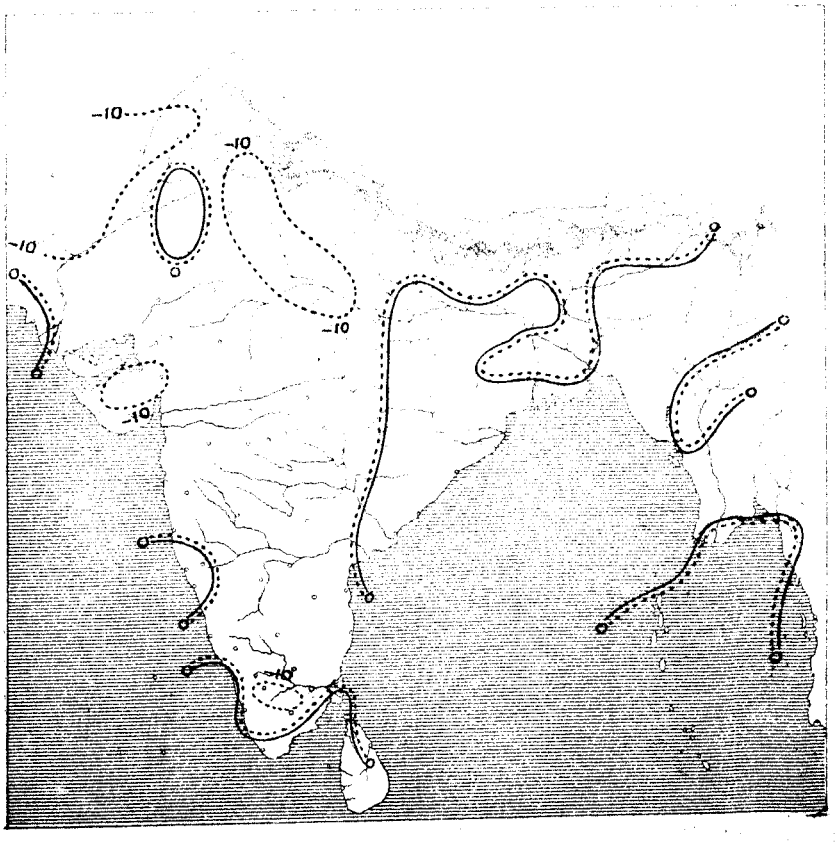


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

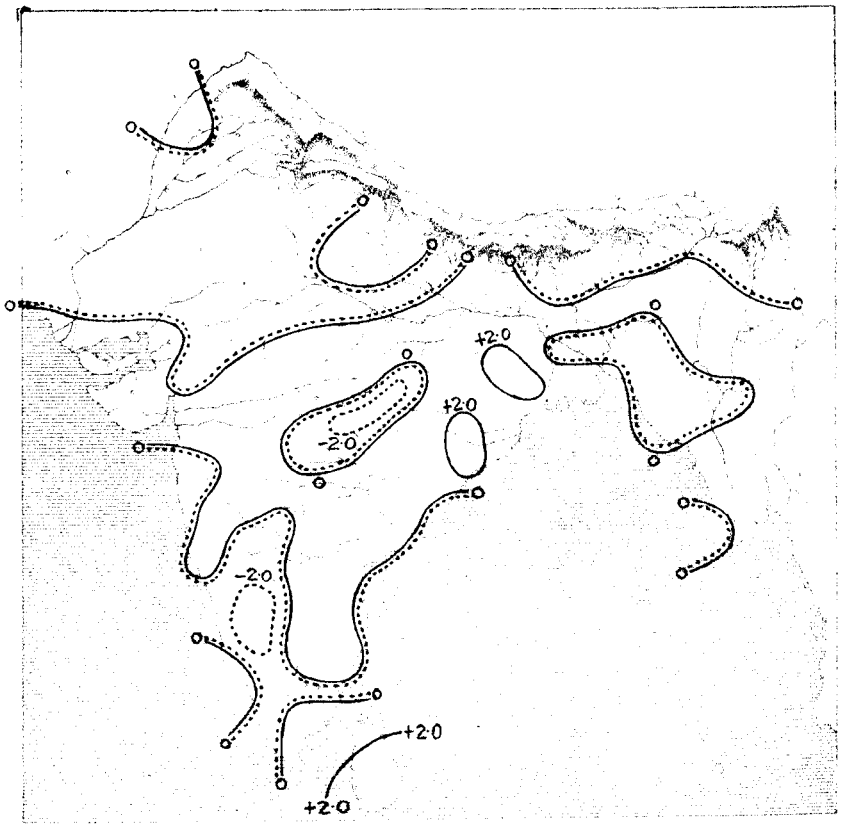
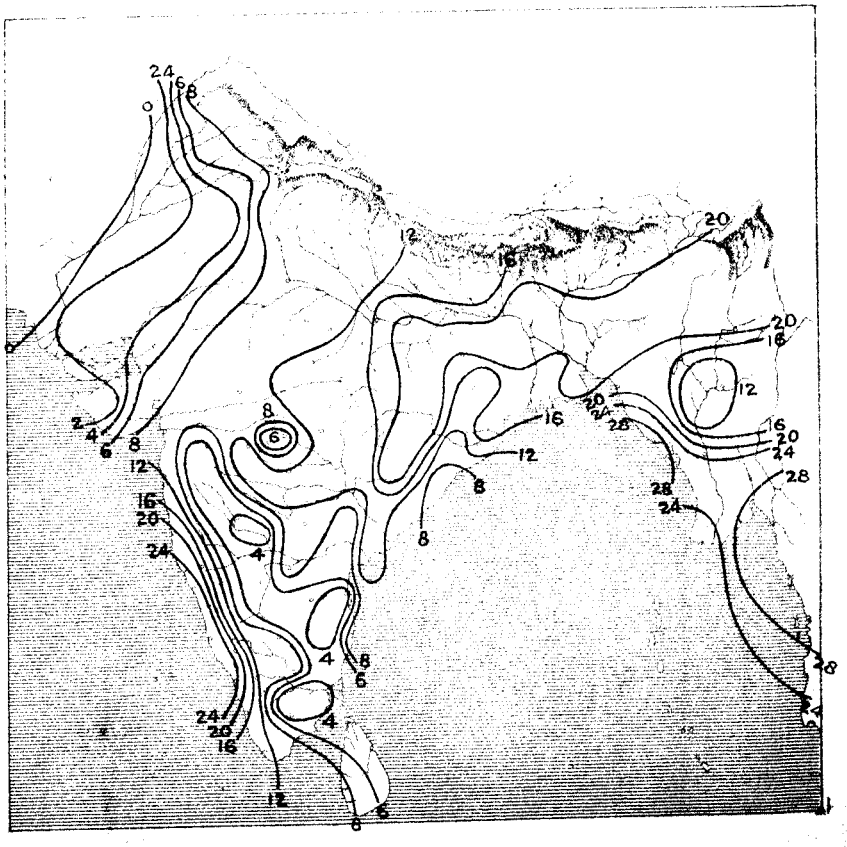
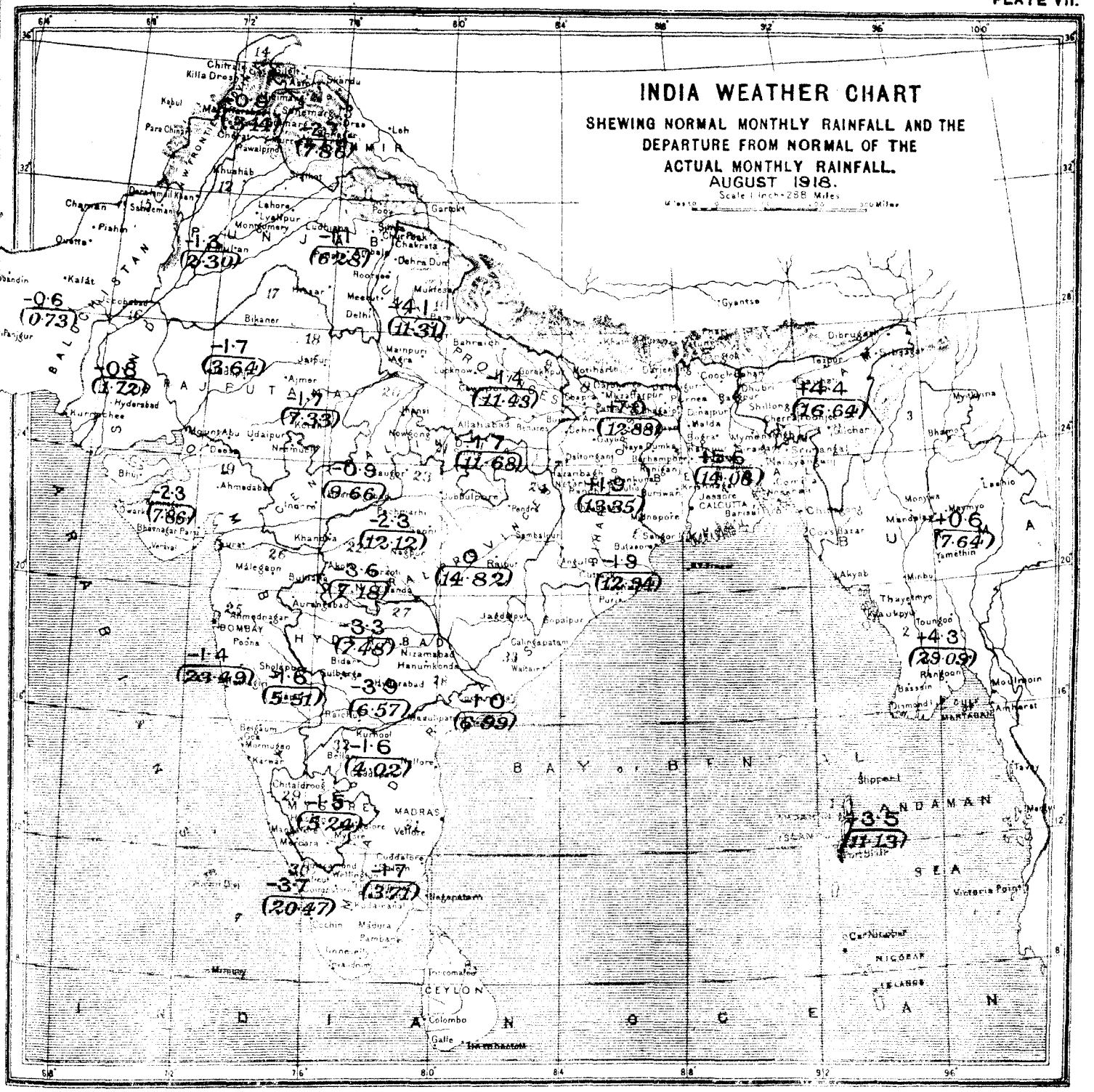


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, SEPTEMBER, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of September, 1918, is based on observations taken daily at 8 hrs. at 215 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments.

The brief notes on solar, seismic and magnetic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon was on the whole, exceptionally weak and gave but little rain in the undermentioned areas after the dates noted against each, the usual dates of withdrawal of the monsoon are also given for comparison.

Divisions.	Little rain fell after the	Usual date of withdrawal of monsoon.
East Punjab	5th	15th September.
Rajputana	6th	20th ,,
United Provinces West	6th	26th ,,
United Provinces East	13th	10th October.
Gujarat	14th	24th September.
Central India	7th	30th ,,
Central Provinces	18th	15th October.
Bihar Chota Nagpur	14th	15th ,,

Rain fell during almost the whole month in Burma, Assam, Bengal and Orissa, in the Peninsula there was on the whole more rain in the latter part of the month than in the earlier. The usual time of withdrawal of the monsoon from these areas is in October or November.

The total fall of the month was considerably below normal over the greater part of the country, and, averaged over all the plains stations, was 27 per cent. in defect.

A depression from the Bay passed into Bengal on the 4th and gave between the 5th and 7th widespread heavy rain in Bihar. Another depression formed in the Bay towards the end of the month, and passing inland disappeared in Assam.

Cloud and humidity were generally in defect, and in the United Provinces, Central India, the Central Provinces and the Peninsula maximum temperature was higher than usual.

The barometric pressure averaged over the plains of India was 0·030″ in excess.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—Spots and faculae were recorded on all the days of the month. The prominence record was complete on 19 days and imperfect on 10 days.

Sunspots.—Twenty-four new groups were recorded in the month with a daily average of 4·1. The average life of a spot was 5·3 days. The 24 groups were distributed in latitude as follows:—

TABLE 1.

—	1°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	4	5	2	13°·4	7° & 23°
South . . .	6	5	2	13°·3	4° & 27°

Prominences.—Sixty-three prominences a minute or more in height, and two metallic prominences were recorded. The tallest, 210 inches in height, was photographed on the west limb at the equator on the 11th.

Magnetic disturbances.—A "great" disturbance was recorded on the 21st and "moderate" ones from the 1st to the 5th, from the 16th to the 20th, and from the 28th to the 30th.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$ N; $\lambda = 77°\ 28'\ 00''$ E; $h = 2343$m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·7	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Sept. 2nd	e P	14 54 36	...	...	...	...	...	Widening of line.
	F	15 11 30	...	...	...	...	...	
„ 5th	e P	7 31 00	...	...	...	...	...	Widening of line.
	F	7 43 18	...	...	...	...	...	
„ 7th	i P	17 29 30	...	...	...	...	...	
	i L	17 37 42	...	..	...	..	...	
	M	18 07 12	...	...	1420	...	...	
	F	22 08 00	...	...	...	...	...	
„ 8th	e P	0 35 06	...	...	...	...	...	Widening of line.
	F	1 06 54	...	...	...	...	...	
„ 8th	e P	6 31 00	...	...	...	...	..	Widening of line.
	F	6 45 18	...	...	...	...	...	
„ 11th	e P	4 24 54	...	...	...	...	...	Widening of line.
	F	4 44 24	...	...	...	...	...	
„ 13th	e P	2 56 48	...	...	...	...	...	Widening of line.
	F	2 59 36	...	...	...	...	...	
„ 16th	e P	6 22 54	...	...	...	...	...	Widening of line.
	F	6 27 00	...	...	...	...	...	
„ 22nd	i P	10 05 24	...	...	...	...	...	
	e L	10 09 00	...	...	...	...	...	
	M	10 11 00	...	...	250	...	...	
	F	10 33 36	...	...	. .	...	...	
„ 28th	e P	11 51 24	...	...	...	...	...	Widening of line.
	F	11 55 30	...	...	...	...	...	
„ 29th	e P	12 26 54	...	...	...	...	...	
	e L	12 35 54	...	...	...	...	...	
	M	12 38 42	...	...	160	...	...	
	F	12 54 36	...	...	...	...	...	
„ 30th	e P	18 41 48	...	...	...	...	...	
	e L	18 48 12	...	...	...	...	...	
	M	18 54 06	...	...	110	...	...	
	F	19 45 54	...	...	...	...	...	

S. SITARAMAYYA,
Offg. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of September, 1918, the traces showed 6 calm days, 23 days of small, and one day of moderate disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 12th, 13th, 14th, 15th and 26th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	C
2	S	10	S	18	S	26	C
3	S	11	S	19	S	27	S
4	S	12	C	20	S	28	S
5	S	13	C	21	M	29	S
6	S	14	C	22	S	30	S
7	S	15	C	23	S		
8	S	16	S	24	S		

C = calm; S = small; M = moderate; G = great; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month are as follows :—

Easterly declination . . .	0° 27′ 27″.
Horizontal force	0·36879 C. G. S. unit.
Vertical force	0·16995 C. G. S. unit.
Inclination	24° 44′·5.
Horizontal force range . . .	0·00047 C. G. S. unit.
Horizontal force summed range .	0·00252 C. G. S. unit.
Declination range . . .	5′·4.
Declination summed range . .	19′·7.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of diurnal inequality.)

Seismic records.

$\Phi = 18° 53′ 36″$ N; $\lambda = 72° 48′ 56″$ E; $h =$ 11m. *Subsoil* Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	r/To²
AN :				
AE :	20	32		
AZ :				

Date.	Phase.	Time G. M. T. h. m. s.	Period. (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918. Sept. 7th	P	17 27 9	...	...	...	...	...	P as shown by the Tilt Seismograph is at 17h. 27m. 31s.
	S	17 37 15	...	...	...	...	...	S.-P. = 10m. 6s.; Δ = 80°·3.
	L	17 51 29	...	...	...	...	...	V. = 4 Km. per second.
	M	...	...	...	...	...	...	Amplitude too large stopped by guards.
	MR	19 59 46	...	...	...	...	...	Maximum by the Major are, as shown by the Tilt Seismograph.
„ 11th	P	4 15 29	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.
„ 12th	P	9 43 13	...	...	...	...	...	
	M	...	...	...	...	...	...	
„ 14th	P	17 24 49	...	...	...	...	...	
	M	17 47 21	...	...	15	...	...	
„ 22nd	P	10 1 35	...	...	...	...	...	
	M	...	...	...	...	...	...	
„ 29th	P	12 14 15	...		...	...	...	
	M	12 30 26	...	...	55	...	...	
„ 30th	P	18 15 12	...	...	...	...	...	
	M	...	...	...	...	...	...	

Two more disturbances were recorded at about 0h. and 6h. on the 8th; but the movements were small and it was difficult to locate phases exactly.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5. CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6{\cdot}4$ m. *Subsoil* Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
September, 7th.	P	17 26 06	4	...	...	...	...	
	S	17 34 18	5	...	...	...	...	
	L	17 43 54	9	...	...	...	...	
	M	17 56 54	...	3103	...	...	...	
	F	19 19 24	...	...	...	...	...	
„ 12th	P	9 43 30	...	...	...	...	...	
	S	9 47 30	4	...	...	...	...	
	F	10 5 36	...	...	...	...	...	
„ 22nd	P	10 0 42	...	...	...	...	...	
	S	10 5 06	...	...	...	...	...	
	F	10 34 06	...	...	...	.	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ km. *Subsoil* Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 Kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Sept, 12th	e	9 40 54	...	...	...	...	...	
	F	9 54 24	...	...	...	...	...	Slight local shock.
„ 22nd	e	10 8 24	...	...	...	...	...	
	M	10 16 42	...	...	...	...	...	
	F	10 47 24	...	...	...	...	...	
„ 29th	P	12 19 18	...	...	...	...	...	
	S	12 22 0	...	...	...	...	...	
	L	12 25 36	30	...	...	...	...	
	M	12 26 12	...	161	43	...	...	
	F	12 47 12	...	...	...	...	...	
„ 30th	e	4 3 18	...	...	...	...	...	
	F	4 3 30	...	...	...	...	...	Very slight local shock.

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
		h. m.	sec.			
Chittagong . .	Sept. 8th	17 08	3	6	1	
Drosh . . .	„ 12th	6 15	10	8	3	
„ . . .	„ 12th	9 40	25	8	5	
Kabul (Afghanistan)	„ 12th	9 40	15	6	3	
Lahore . .	„ 12th	9 42	3	5	1	
Srimangal (District Sylhet, Assam).	Sept. 22nd	8 30	2	7	1	
Rawalpindi . .	„ 27th	17 16	22	6	3	
Drosh . . .	„ 27th	22 50	10	7	3	
Shillong . .	„ 28th	11 37	1	2	1	
„ . .	„ 29th	3 13	1	2	1	
Simla . .	„ 30th	4 02	2	3	1	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was in excess at all the three stations. Wind directions were about normal, but at Seychelles the velocity was higher than usual. Rainfall was in defect at Mauritius and Zanzibar, and very much in excess at Seychelles.

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	+·057	+·052	+·021
Actual mean wind direction . .	S 77° E	S 6° W	S 26° E
Normal mean wind direction . .	S 71° E	S 5° E	S 40° E
Actual mean wind velocity (miles per diem).	209	84	260
Normal mean wind velocity (miles per diem).	204	98	210
Rainfall departure from normal .	—0·48	—1·43	+9·37

Depressions and cyclonic storms.

8. A very shallow depression, which lay over the north of the Bay at the end of August and the beginning of September, began to move on the 3rd, passed into Bengal on the 4th and disappeared over Bihar on the 8th; while over Bihar it caused heavy rain at many stations in that Province.

Another feeble depression formed at the head of the Bay about the 27th, lay in the neighbourbood of Dacca on the 29th and disappeared in Assam on the next day.

Several western disturbances entered northwest India and gave rain in the extreme north of the country during the greater part of the month; the last of them caused a fall of temperature of 4° to 10° in Baluchistan on the 28th.

Pressure.

9. Pressure was normal or below it along the Himalayas and in Bengal, and above it over the rest of the country; the excess was 0·04″ to 0·07″ in Sind, Rajputana, Central India, the Central Provinces and the Peninsula.

The vertical gradient was somewhat steeper than usual in Sind, Rajputana and the Central Provinces, and was about normal elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·015
Assam	—·002
Bengal	—·007
Bihar and Orissa	+·013
United Provinces	+·015
Punjab	+·013
North-West Frontier Province	+·010
Sind	+·044
Rajputana	+·047
Bombay	+·051
Central India	+·046
Central Provinces	+·052
Hyderabad	+·052
Mysore	+·040
Madras	+·038

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference B—A.
	″		″	″
Quetta	+·013	Jacobabad	+·039	+·026
Leh	+·004	Lahore	+·011	+·007
Murree	—·013	Peshawar	+·003	+·016
Simla	+·009	Ludhiana	+·013	+·004
Mukteswar	+·004	Bareilly	—·001	—·005
Darjiling	—·015	Dhubri	—·008	+·007
Mount Abu	+·034	Deesa	+·069	+·035
Pachmarhi	+·040	Khandwa	+·063	+·023
Kodaikanal	+·030	Madura	+·031	+·001

Temperature.

10. Maximum temperature was above normal in the tract between the United Provinces and the extreme south. Minimum temperature was mostly normal.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·5	77·5	81·0	7·1	—0·1	+0·7	—0·8
2. Lower Burma	84·6	74·9	79·7	9·7	—0·9	—0·2	—0·7
3. Upper Burma	89·3	75·0	82·2	14·4	—0·6	+0·1	—0·7
4. Assam	88·2	76·3	82·3	12·0	—0·3	0	—0·3
5. Bengal	88·6	78·0	83·3	10·7	+0·6	+0·3	+0·3
6. Orissa	90·4	77·8	84·1	12·6	+1·3	—0·1	+1·4
7. Chota-Nagpur	89·7	74·1	81·9	15·6	+1·4	—0·7	+2·1
8. Bihar	90·3	77·5	83·9	12·7	+0·5	—0·3	+0·8
9. United Provinces, East	93·4	75·7	84·6	17·7	+2·3	—1·4	+3·7
10. Do. do., West	96·5	75·0	85·8	21·4	+4·7	—0·6	+5·3
11. Punjab, East and North	96·8	73·8	85·1	23·0	+2·4	0	+2·4
12. Do., Southwest	99·5	74·3	86·9	25·3	+0·1	—1·8	+1·9
13. Kashmir	72·1	47·1	59·5	25·0	—2·6	—2·3	—0·3
14. North-West Frontier Province	98·5	71·6	85·0	26·9	+0·7	—1·1	+1·8
15. Baluchistan	90·5	57·1	73·8	33·5	—0·9	+0·2	—1·1
16. Sind	94·8	75·2	85·0	19·6	—0·8	—0·9	+0·1
17. Rajputana, West	97·5	74·8	86·1	22·7	+0·9	—2·3	+3·2
18. Do., East	94·0	74·8	84·4	19·1	+1·7	—0·1	+1·8
19. Gujarat	90·3	73·7	82·0	16·6	+0·5	—1·0	+1·5
20. Central India, West	87·7	69·3	78·5	18·5	+1·3	—1·2	+2·5
21. Do. do., East	91·7	73·7	82·7	18·1	+2·9	—1·1	+4·0
22. Berar	90·9	72·6	81·8	18·3	+4·2	+1·3	+2·9
23. Central Provinces, West	89·3	71·7	80·5	17·6	+2·3	—0·4	+2·7
24. Do. do., East	88·5	72·9	80·7	15·7	+2·2	0	+2·2
25. Konkan	85·0	75·5	80·3	9·4	+1·2	+0·5	+0·7
26. Bombay Deccan	87·9	68·4	78·2	19·5	+2·7	—0·3	+3·0
27. Hyderabad, North	90·9	71·4	81·1	19·5	+4·5	+0·8	+3·7
28. Do., South	90·5	73·5	82·1	17·1	+3·1	+0·9	+2·2
29. Mysore	85·0	66·0	75·5	18·9	+2·5	+0·2	+2·3
30. Malabar	84·9	74·6	79·7	10·3	+1·1	+0·3	+0·8
31. Madras, South-east	94·4	76·6	85·5	17·8	+2·5	+1·1	+1·4
32. Do., Deccan	92·4	74·8	83·6	17·6	+1·2	+0·7	+0·5
33. Do. Coast, North	92·4	78·6	85·5	13·8	+2·5	+0·2	+2·3

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·7	0	—0·4
Assam	—0·3	0	—0·1
Bengal	+0·6	+0·3	+0·4
Bihar and Orissa	+1·0	—0·3	+0·3
United Provinces	+3·5	—1·0	+1·3
Punjab	+1·7	—0·5	+0·6
North-West Frontier Province	+0·7	—1·1	—0·2
Sind	—0·8	—0·9	—0·8
Rajputana	+1·4	—1·0	+0·2
Bombay	+1·4	—0·5	+0·5
Central India	+2·1	—1·2	+0·5
Central Provinces	+2·8	+0·2	+1·5
Hyderabad	+3·5	+0·9	+2·2
Mysore	+2·5	+0·2	+1·4
Madras	+2·0	+0·6	+1·3

Winds.

11. Winds were steadier than usual generally, Bengal being the only area where the degree of steadiness was appreciably below normal. The velocity was in excess in Burma, the Punjab, Rajputana, Central India, Mysore and Madras, and in defect generally elsewhere.

The wind directions differed irregularly from the normal in the Konkan, along the northwest Frontier and the Western Himalayas, and in the northeast of the Peninsula. They had a strong abnormal westerly component in the Gangetic plain and an easterly component in Tennasserim.

TABLE 13.

DIVISION.	DEPARTURE FROM NORMAL OF	
	Hourly wind velocity.	Wind steadiness.
Burma	+0·8	+ 6
Assam	—0·2	+18
Bengal	—0·8	— 9
Bihar and Orissa	—0·2	+ 2
United Provinces	—0·5	+16
Punjab	+0·2	+ 3
North-West Frontier Province	—0·5	— 3
Sind	—0·1	+ 8
Rajputana	+0·5	+35
Bombay	—1·3	— 2
Central India	+0·5	+23
Central Provinces	—0·4	+19
Hyderabad	—0·4	+15
Mysore	+1·0	0
Madras	+0·4	+ 5

Humidity and cloud.

12. Burma was the only division which had an excess of cloud. Cloud amount was normal in Bengal, Bihar and Orissa, the North-West Frontier Province, Hyderabad and Madras, and was in defect elsewhere.

Humidity was in defect except in Burma, northeast India, Mysore and Madras where it was normal.

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	90	0	·876	—·012	7·7	+0·5
Assam	91	0	·911	—·009	6·3	—0·8
Bengal	88	— 1	·949	—·003	6·8	
Bihar and Orissa	82	— 3	·877	—·029	5·3	—0·1
United Provinces	68	—13	·739	—·118	2·5	—1·5
Punjab	59	—12	·629	—·127	1·4	—0·5
North-West Frontier Province.	61	— 5	·615	—·083	0·9	—0·2
Sind	70	— 4	·713	—·068	1·8	—0·5
Rajputana	62	— 8	·647	—·107	2·1	—1·2
Bombay	77	— 5	·738	—·051	4·6	—1·1
Central India	72	—11	·684	—·101	3·5	—1·8
Central Provinces	72	—12	·695	—·081	4·3	—1·3
Hyderabad	74	— 6	·692	—·032	5·4	0
Mysore	81	— 2	·615	—·017	6·1	—1·8
Madras	76	— 3	·803	—·009	5·8	—0·1

Rainfall.

13. The monsoon continued very weak, especially the Bombay branch of it, and the month's fall was in defect practically everywhere; the exceptions were Lower Burma, Assam, Bihar and the Madras Deccan which had excesses ranging from 11 to 30 per cent., and Baluchistan and South Hyderabad where the fall was normal. Sind had some light rain on the first two days of the month and nothing afterwards.

The deficiency in the month's fall was 24 per cent. or more in 22 out of the 33 rainfall divisions, and was 50 per cent. or more in 14 divisions.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	13·0	18·4	8·39	11·70	—3·31	— 28
2. Lower Burma	22·3	19·7	23·49	18·09	+5·40	+ 30
3. Upper Burma	9·7	10·9	6·80	7·65	—0·85	— 11
4. Assam	14·9	13·6	13·86	11·84	+2·02	+ 17
5. Bengal	11·8	12·4	9·63	10·75	—1·12	— 10
6. Orissa	9·5	12·2	7·22	9·45	—2·23	— 24
7. Chota Nagpur	8·4	10·3	6·80	8·11	—1·31	— 16
8. Bihar	7·5	8·7	9·37	8·19	+1·18	+ 14
9. United Provinces, East	4·4	7·3	3·55	6·84	—3·29	— 48
10. Do. do., West	1·7	5·8	1·15	5·93	—4·78	— 81
11. Punjab, East and North	1·2	3·2	0·55	3·23	—2·68	— 83

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
12. Punjab, South-west	1·6	1·3	0·77	0·95	—0·18	— 19
13. Kashmir	2·1	4·2	0·75	3·69	—2·94	— 80
14. North-West Frontier Province	2·2	2·1	0·74	1·28	—0·54	— 42
15. Baluchistan	0·6	0·3	0·19	0·19	0	0
16. Sind	0·2	0·6	0·07	0·48	—0·41	— 85
17. Rajputana, West	0·7	2·3	0·22	1·81	—1·59	— 88
18. Do., East	1·4	4·7	0·97	3·97	—3·00	— 76
19. Gujarat	1·4	5·6	0·50	4·66	—4·16	— 89
20. Central India, West	2·7	7·2	2·61	5·31	—2·70	— 51
21. Do., East	4·4	6·9	3·01	6·80	—3·79	— 56
22. Berar	2·2	7·9	1·04	5·81	—4·77	— 82
23. Central Provinces, West	4·6	9·6	2·95	7·55	—4·60	— 61
24. Do., East	7·1	9·6	4·98	7·92	—2·94	— 37
25. Konkan	8·2	15·5	4·24	12·37	—8·13	— 66
26. Bombay Deccan	4·6	8·2	2·69	5·47	—2·78	— 51
27. Hyderabad, North	7·8	10·0	4·65	8·10	—3·45	— 43
28. Do., South	8·4	9·7	6·93	6·74	+0·19	+ 3
29. Mysore	5·9	7·9	3·78	4·98	—1·20	— 24
30. Malabar	8·4	13·6	4·81	9·34	—4·53	— 49
31. Madras, Southeast	3·4	6·1	1·89	4·45	—2·56	— 58
32. Do., Deccan	8·3	7·6	6·07	5·45	+0·62	+ 11
33. Do. Coast, North	8·8	9·3	5·95	6·98	—1·03	— 15

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"		"	
Burma	13·32	11·76	+1·56	+13
Assam	13·86	11·84	+2·02	+17
Bengal	9·63	10·75	—1·12	—10
Bihar and Orissa	8·23	8·46	—0·23	— 3
United Provinces	2·26	6·35	—4·09	—64
Punjab	0·61	2·67	—2·06	—77
North-West Frontier Province	0·74	1·28	—0·54	—42

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·07	0·48	—0·41	—85
Rajputana	0·75	3·30	—2·55	—77
Bombay	2·27	6·45	—4·18	—65
Central India	2·70	5·88	—3·18	—54
Central Provinces	3·33	7·27	—3·94	—54
Hyderabad	5·79	7·46	—1·67	—22
Mysore	3·78	4·98	—1·20	—24
Madras	3·86	5·76	—1·90	—33
Mean of India	4·91	6·72	—1·81	—27

Snowfall.

I.—NORTH-WEST FRONTIER PROVINCE.

14. *Drosh.*—There were three light falls on the higher ranges of the surrounding hills.

II.—KASHMIR.

(*a*) *Srinagar.*—A very light fall was observed on the higher summits of mountains on the 26th.

(*b*) *Gulmarg.*—Snowfall occurred almost daily after the 20th on the surrounding higher mountains.

(*c*) *Skardu.*—No snow fell at the station, but over nearly all the surrounding higher mountains light falls (less than half an inch on each occasion) occurred on 10 days. About an inch of snow was lying at the end of the month over the higher ranges and perhaps less than half an inch on the lower. The month's fall was considered to be above the average.

(*d*) *Dras.*—Very light snow fell on the 4th and 5th.

(*e*) *Kargil.*—The following falls are reported.

TABLE 17.

Locality.	4th.	5th.	24th.	26th.	30th.
	Inches.	Inches.	Inches.	Inches.	Inches.
Archulla . . .	2	4	4	4	10
Nakthulla . . .	1	2	3	3	8
Samenulla . . .	1	3	...	...	6
Barulla	...	1	1	1	4
Narainulla . . .	...	...	1	1	5
Other mountains . .	...	...	...	...	3

The accumulations at the end of the month were 9″ on Archulla, 4″ on Nakthulla, 3″ on Narainulla and Samenulla and 1″ on Pazgolla and Barulla mountains. The total fall of the month was considered to be above normal.

III.—THE UNITED PROVINCES.

Almora.—Information from Patwaris is as follows:—

TABLE 18.

Actual fall.

Locality.	Depth.		Descent below perpetual snowline.
	Feet.	Inches.	
Malla Danpur	3	0	
Malla Darma	4	9	2 miles.
Malla Jahar	*Nil*		
Byans	10	0	2 to 4 miles.
Chaudas	0	9	½ mile.

Accumulations at the end of the month.

TABLE 19.

Name of pass or peak.	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	16	22½
Binkaru pass	4	9
Lipulekh „	5	6½
Lampia „	7	8
Pindari peak	3	3
Kophim „	3	2½
Puwalidwar	3	...
Nandakot	3	...

IV.—EASTERN HIMALAYAS.

(*a*) *Sikkim—Gangtok and Yatung.*—No snow fell.

(*b*) *North-East Frontier District.*—Daphabum peak showed light snow at intervals during the month.

Summary.

15. The month's fall was above normal in Kashmir and probably not appreciably different from the normal in the North-West Frontier Province and on the Almora hills.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in September, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·735	29·628	·107	29·682	—·010	29·650	90·1	78·6	11·5	94·4	74·9	19·5	85·8	86·3	84·1	+1·5	77·1	80·5	80·5	79·
	VI.—Punjab.																					
11	Lahore .	702	29·036	28·945	·091	28·982	+·010	29·635	98·2	73·8	24·4	102·8	67·3	35·5	88·9	97·3	85·0	+0·2	68·5	73·6	75·4	72·
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·404	28·302	·102	28·350	+·046	29·606	95·4	72·3	23·1	100·5	67·5	33·0	86·7	93·5	82·4	0	65·9	72·4	73·3	70·
	X.—Bombay.																					
25	Bombay .	37	29·883	29·790	·093	29·847	+·056	29·823	86·2	77·4	8·8	88·1	75·2	12·9	81·8	83·9	80·7	+1·3	73·2	76·8	76·7	75·
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·963	26·844	·119	26·911	+·037	29·750	83·7	65·7	18·0	89·1	62·6	26·5	76·0	81·0	72·9	+1·1	64·4	68·6	69·3	67·
	XV.—Madras.																					
31	Trivandrum . .	198	29·774	29·668	·106	29·727		29·854	83·8	74·6	9·2	85·1	73·1	12·0	81·2	81·8	78·1			74·7	75·1	
	Pudukkottai .	318	29·595	29·443	·152	29·519		29·760	99·5	77·6	21·9	102·9	75·4	27·5	88·6	96·5	88·6			73·0	74·4	
	Madras . .	22	29·854	29·725	·129	29·799	+·022	29·752	94·5	78·1	16·4	101·1	72·8	28·3	87·7	88·8	85·2	+1·2	75·2	78·5	80·3	78·
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·593	25·539	·054	25·563	+·040	25·517	84·3	64·9	19·4	88·2	59·0	29·2	76·7	79·6	74·2	+1·0	62·8	69·6	71·3	67·
	Kodaikanal . .	7,688	22·353	22·791	·062	22·822		22·757	65·4	51·1	14·3	69·2	49·2	20·0	61·9	59·5	58·2		48·1	56·1	56·4	54·
	Extra India.																					
	Seychelles . .	15	30·039	29·948	·091	30·001	+·021†	29·940	81·7	77·2	4·4	83·1	74·9	8·2	79·7	80·3	78·2	+0·5†	70·6	74·9	75·4	74·
	Mauritius . .	181				30·060	+·057	30·131	76·1	61·2	14·9	76·1	55·6	22·5			68·2	—1·4				66·

N. B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

† Departure from old normal.

A.

at 12 stations in India, etc., in September, 1918.

VAPOUR TENSION IN INCHES OF MERCURY.					HUMIDITY.					CLOUD.				WIND DIRECTION.											WIND STEADINESS.		WIND VELOCITY.		RAINFALL.		STATION.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																		
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during month.		
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	54	55	56
																															III.—Bengal.	
·910	·866	·963	·953	+·001	93	79	78	84	− 2	7·0	6·7	7·9	0	1	4	4	8	4	11	17	5	6	S 42° W	S 9° W	33	46	70	71	9·31	3·48	Calcutta.	5
																															VI.—Punjab.	
·632	·623	·584	·624	−·094	75	46	34	55	− 6	0·9	0·7	0·8	−1·1	7	2	2	0	4	5	7	16	17	N 85° W	N 46° E	48	59	31	37	0·44	0·21	Lahore.	11
																															IX.—Rajputana.	
·568	·618	·570	·613	−·079	74	49	37	58	−11	2·4	4·4	3·4	−1·1	1	2	0	0	0	1	3	23	30	N 66° W	N 42° W	25	43	72	74	1·46	1·42	Jaipur.	18
																															X.—Bombay.	
·758	·850	·819	·816	−·056	81	79	71	78	− 8	5·9	5·6	5·7	−1·2	0	1	2	5	11	2	4	26	9	S 80° W	N 84° W	37	52	109	189	3·11	0·75	Bombay.	25
																															XIV.—Mysore.	
·589	·611	·578	·605	−·018	93	69	56	76	− 4	7·2	8·4	7·8		1	3	1	0	1	1	9	35	9	N 87° W	S 84° W	78	83	151	123	5·07	1·80	Bangalore.	29
																															XV.—Madras.	
	·773	·777				73	72			6·7	6·9	6·8		2	2	0	0	0	0	0	13	43	N 53° W		90		145		0·28	0·34	Trivandrum.	31
	·601	·551				45	32			3·8	6·0	4·9		9	8	2	0	2	2	9	16	12	N 74° W		48		103		0	0	Pudukkottai.	
·835	·851	·917	·878	+·030	87	66	68	76	− 1	6·8	6·7	6·7	+0·4	4	3	2	5	10	1	8	21	6	S 73° W	S 36° W	30	53	50	105	3·25	0·99	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·549	·643	·668	·622	−·011	89	70	67	77	− 4	4·7	5·7	5·2	−1·1	0	2	0	26	0	2	0	30	0	[illegible] W	N 87° W	13	11	7	12	2·14	0·65	Katmandu.	
·367	·389	·424	·373		82	71	84	79		6·3	9·1	7·7		0	3	4	9	19	3	0	6	16	N 85° E		13		141		1·94	0·76	Kodaikanal.	
																															Extra India.	
·660	·801	·815	·766	−·001	70	79	79	78	− 2	7·4	7·2	7·3	+1·7†	0	0	3	1	26	27	1	0	0	S 26° E	S 40° E	85	87	260	210	14·23	3·22	Seychelles.	
			·642	−·039				70	− 2			5·6	+0·5										S 77° E	S 71° E			209	204	0·90	0·22	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 215 stations in India, etc., in September 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·015	86·5	−0·7	74·9	0	80·7	−0·4	11·6	+0·8	+ 6	90	0	·876	−·012	7·7	+0·5	13·32	11·76	+1·56
Assam	−·002	88·2	−0·3	76·3	0	82·3	−0·1	12·0	−0·2	+18	91	0	·911	−·009	6·3	−0·8	13·86	11·84	+2·02
Bengal	−·007	88·6	+0·6	78·0	+0·3	83·3	+0·4	10·7	−0·8	− 9	88	− 1	·949	−·003	6·8	0	9·63	10·75	−1·12
Bihar and Orissa	+·013	90·2	+1·0	76·8	−0·3	83·5	+0·3	13·4	−0·2	+ 2	82	− 3	·877	−·029	5·3	−0·1	8·23	8·46	−0·23
United Provinces of Agra and Oudh	+·015	94·5	+3·5	75·4	−1·0	85·2	+1·3	19·6	−0·5	+16	68	−13	·739	−·118	2·5	−1·5	2·26	6·35	−4·09
Punjab	+·013	97·7	+1·7	73·9	−0·5	85·7	+0·6	23·7	+0·2	+ 3	59	−12	·629	−·127	1·4	−0·5	0·61	2·67	−2·06
North-West Frontier Province	+·010	98·5	+0·7	71·6	−1·1	85·0	−0·2	26·9	−0·5	− 3	61	− 5	·615	−·083	0·9	−0·2	0·74	1·28	−0·54
Sind	+·044	94·8	−0·8	75·2	−0·9	85·0	−0·8	19·6	−0·1	+ 8	70	− 4	·713	−·068	1·8	−0·5	0·07	0·48	−0·41
Rajputana	+·047	95·4	+1·4	74·8	−1·0	85·1	+0·2	20·5	+0·5	+35	62	− 8	·647	−·107	2·1	−1·2	0·75	3·30	−2·55
Bombay	+·051	88·6	+1·4	72·2	−0·5	80·4	+0·5	16·4	−1·3	−2	77	− 5	·738	−·051	4·6	−1·1	2·27	6·45	−4·18
Central India	+·046	89·7	+2·1	71·5	−1·2	80·6	+0·5	18·3	+0·5	+23	72	−11	·684	−·101	3·5	−1·8	2·70	5·88	−3·18
Central Provinces	+·052	89·5	+2·8	72·3	+0·2	80·9	+1·5	17·2	−0·4	+19	72	−12	·695	−·081	4·3	−1·3	3·33	7·27	−3·94
Hyderabad	+·052	90·7	+3·5	72·8	+0·9	81·8	+2·2	17·9	−0·4	+15	74	− 6	·692	−·032	5·4	0	5·79	7·46	−1·67
Mysore	+·040	85·0	+2·5	66·0	+0·2	75·5	+1·4	18·9	+1·0	0	81	− 2	·615	−·017	6·1	−1·8	3·78	4·98	−1·20
Madras	+·038	92·0	+2·0	76·5	+0·6	84·2	+1·3	15·4	+0·4	+ 5	76	− 3	·803	−·009	5·	−0·1	3·86	5·76	−1·09

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·868		29·886	29·894	6th	29·746	7th	78·8	75·7	82·8		75·3		79·0		7·5	85·3	4th	71·8	26th
	Mergui	66	29·882	+·038	29·877	29·967	28th	29·814	6th	76·7	75·7	83·2	−1·3	73·5	+0·6	78·4	−0·3	9·7	87·8	12th	71·7	27th
	Tavoy	19	29·905	+·016	29·857	29·989	17th	29·831	7th	77·4	76·2	83·8	−0·2	71·6	−2·5?	77·7	−1·3?	12·2	87·6	15th & 17th.	70·4	29th
	Moulmein	94	29·847	+·046	29·846	29·917	17th	29·745	1st	76·4	75·0	81·9	−2·9	73·9	−0·7	77·9	−1·8	8·0	86·9	13th	72·2	20th
	Rangoon	18	29·856	+·026	29·821	29·970	17th	29·764	1st	78·8	77·1	85·6	−0·1	75·2	−0·8	80·4	−0·5	10·4	89·0	17th	72·3	14th
	Bassein	27	29·851	+·028	29·815	29·953	17th	29·737	1st	80·2	78·2	86·0	+0·4	76·2	+0·1	81·1	+0·3	9·8	90·2	12th	74·4	9th & 28th.
	Diamond Island	41	29·815	+·006?	29·799	29·940	17th	29·714	1st	80·9	78·0	85·4	+0·5	76·7	+0·4	80·9	+0·5	8·4	87·2	27th	72·6	19th
	Toungoo	164	29·702	+·021	29·810	29·791	16th & 17th.	29·610	1st	78·6	76·6	87·0	−2·0	74·7	−0·6	80·9	−1·3	12·3	90·5	9th & 13th.	73·4	17th
	Kyaukpyu	18	29·809		29·767	29·908	17th	29·691	1st	78·8	77·1	85·1		76·1		80·6		9·0	88·5	24th	73·5	26th
	Akyab	20	29·788	−·007	29·749	29·877	15th & 17th.	29·662	1st	79·3	78·0	85·2	−1·2	75·4	−2·4?	80·3	−1·8?	9·8	89·0	25th	72·9	18th
3	Minbu	*165*	29·654	−·005	29·762	29·735	17th	29·578	7th	80·1	76·7	89·3	−1·0	76·7	−0·1	83·0	−0·5	12·6	94·7	16th	74·2	11th & 26th.
—	Yamethin	644	29·195	+·009	29·790	29·270	16th & 17th.	29·116	1st	78·7	75·6	85·8	−0·9	75·1	+0·4	82·5	−0·3	14·7	93·9	25th	73·6	30th.
	Mandalay*	250	29·584	+·010	29·781	29·643	12th	29·519	6th	82·8	77·0	94·0	+1·2	78·2	+1·2	86·1	+1·2	15·8	97·6	13th	76·0	29th
	Monywa	*280*	29·546	+·016	29·775	29·612	12th	29·461	7th	81·0	77·4	91·8	0	78·1	+0·4	85·0	+0·2	13·7	96·6	1st	75·5	1st
	Lashio	*2,820*	27·066	−·001	27·012	27·120	14th	26·987	1st	73·0	70·9	83·5	−0·6	69·8	+1·9	76·6	+0·7	13·7	88·1	11th	68·0	18th
	Bhamo	*361*	29·432	−·004	29·747	29·491	13th	29·353	7th	78·1	76·8	89·1	−0·7	73·0	−1·6	81·1	−1·1	16·1	95·6	11th	70·4	19th
	Myitkyina	458	29·327	+·012	29·749	29·387	12th	29·265	7th	77·4	75·7	87·9	−1·9	73·8	−1·8	80·9	−1·9	14·1	93·8	27th	71·6	16th
	II.—Assam.																					
4	Dibrugarh	353	29·429	−·006	29·743	29·501	12th	29·341	1st	78·4	76·2	86·4	−0·6	75·2	+0·4	80·8	−0·1	11·2	93·3	27th	71·9	18th
	Sibsagar	333	29·460	−·017	29·752	29·550	12th	29·377	1st	78·7	77·2	87·0	−0·8	76·7	+0·4	81·9	−0·2	10·3	92·4	1st	73·2	11th
	Tezpur	252	29·540	+·010	29·752	29·614	12th	29·459	7th	77·5	76·1	88·4	−0·3	76·0	−0·8	82·2	−0·5	12·4	93·5	26th	73·4	18th
	Gauhati	196	29·595	+·010	29·747	29·675	13th	29·509	6th	79·9	77·7	89·0	−0·9	76·8	+0·1	82·9	−0·4	12·2	92·8	11th	74·9	19th
	Dhubri	115	29·657	−·008	29·726	29·730	13th	29·582	1st	81·4	78·8	86·4	+1·0	78·0	+0·8	82·2	+0·9	8·4	90·1	11th	75·3	1st, 10th & 21st.
	Silchar	104	29·704	0	29·761	29·782	14th	29·632	1st	80·0	78·2	89·8	0	76·5	+0·2	83·2	+0·1	13·3	94·4	27th	73·5	17th & 18th.
	Srimangal	66	29·736		29·752	29·805	18th	29·655	1st	80·2	77·4	90·7	−0·3	74·7	−1·0	82·7	−0·7	16·0	95·7	11th	70·3	19th
	III.—Bengal.																					
5	Cox's Bazar	36	29·759		29·740	29·850	17th	29·637	1st	79·6	77·6	85·5		75·3		80·4		10·2	89·2	26th	71·5	28th
	Chittagong	87	29·702	−·007	29·734	29·787	17th	29·608	1st	80·3	78·2	87·6	+0·8	76·4	+0·1	82·0	+0·5	11·2	91·2	25th	72·8	18th
	Noakhali	43	29·740	−·004	29·730	29·807	14th	29·652	1st	81·0	78·8	87·7	+1·2	77·6	+0·2	82·7	+0·7	10·1	92·8	25th	70·3	19th
	Barisal	12	29·754	−·004	29·713	29·823	17th	29·663	1st	81·5	79·3	87·4	−0·6	78·0	−0·1	82·7	−0·3	9·4	92·3	18th	75·4	28th
	Narayanganj	26	29·742	−·011	29·717	29·819	14th	29·627	29th	82·0	78·9	87·8	−0·7	78·3	−0·6	83·0	−0·7	9·5	91·9	26th	75·3	15th

N. B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

B.

stations in India, etc., in September, 1918.

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
3	3	0	0	4	1	11	7	1	S 88° W		6·1			49		86		·846		8·1		19		17·68	30·91	-13·3	109·28	187·96	−28·68	4·58	Victoria Point.
21	0	0	2	5	0	0	1	1	S 53° E	N 76° W	4·2	1·2	+3·0	17	−41	95	+ 2	·876	+·003	6·5	+0·3	21	−2·5	21·35	26·75	− 5·40	131·69	135·12	− 3·43	2·10	Mergui.
13	0	1	0	5	8	2	0	1	S 10° E	S 64° W	1·6	0·9	+0·7	37	+26	95	+ 2	·885	+·016	8·7	+1·7	26	+2·8	32·69	33·10	− 0·41	213·54	196·39	+17·15	4·81	Tavoy.
4	0	0	0	6	19	1	0	0	S 9° E	S 12° E	8·2	2·3	+5·9	79	+42	93	+ 1	·852	−·027	9·8	+2·4	28	+5·8	35·43	27·84	+ 7·59	187·59	174·06	+13·53	6·63	Moulmein.
1	0	1	1	6	23	6	2	0	S 1° W	S 50° W	3·4	2·6	+0·8	69	+21	92	0	·906	−·007	9·4	+1·0	23	+3·3	17·39	15·25	+ 2·14	83·40	86·70	− 3·30	3·69	Rangoon.
12	0	0	1	1	7	5	3	1	S 28° W	S 5° W	2·9	2·9	0	40	+ 3	92	— 1	·943	+·012	6·7	−0·4	23	+2·5	14·39	15·24	— 0·85	85·53	95·81	−10·28	1·77	Bassein.
0	0	1	1	2	5	15	6	0	S 39° W	S 51° W	7·4	5·8	+1·6	66	+25	87	+ 1	·922	+·018	7·0	−0·3	22	+4·5	22·79	17·80	+ 4·99	96·23	102·05	− 5·82	5·52	Diamond Island.
6	0	0	0	13	10	1	0	0	S 23° E	S 32° E	2·1	2·3	+0·1	69	+14	91	+ 1	·881	−·036	9·8	+1·6	18	+0·1	13·26	12·13	+ 1·13	88·03	70·86	+17·17	2·29	Toungoo.
22	0	0	2	2	2	1	0	1	S 31° E		0·6			13		92		·905		7·7		25		31·68	18·48	+13·20	192·56	158·35	+34·20	5·18	Kyaukpyu.
22	0	1	3	3	0	1	0	0	S 67° E	N 87° E	2·3	2·2	+0·1	17	−38	94	+ 1	·937	−·021	8·3	+0·8	28	+8·6	48·77	21·15	+27·62	280·82	178·27	+102·55	6·81	Akyab.
1	0	0	0	2	1	0	0	0	S 43° E	S 42° E	3·3	6·0	−2·7	92	+25	85	— 1	·870	−·016	6·4	+0·1	11	+1·0	5·95	6·20	— 0·25	31·43	26·75	+ 7·68	1·66	Minbu.
										S 30° E		4·0				86	— 2	·816	−·017	5·4	−1·1	7	−3·9	4·98	7·02	— 2·04	25·71	27·76	— 2·05	1·87	Yamethin.
16	0	0	0	2	10	1	0	0	S 3° E	S 3° W	4·1*	3·4	+0·7	42	−13	76	— 7	·846	−·044	6·4	+0·6	5	−3·9	2·57	5·92	− 3·35	21·63	25·13	− 3·50	1·30	Mandalay.
5	1	0	2	18	4	0	0	0	S 43° E		2·4			69		85	— 2	·893	−·028	7·7	+0·4	5	−4·7	3·44	6·54	− 3·10	23·80	24·34	− 0·54	1·13	Monywa.
13	1	1	1	0	1	7	1	5	S 85° W		1·6			27		90	— 2	·726	−·006	7·8	−0·2	18	+4·5	10·44	7·40	+ 3·04	69·60	49·73	+19·87	1·62	Lashio.
50	0	0	0	0	0	0	0	0	Calm.	N 72° W	0·4	1·5	−1·1	(a)		94	+ 3	·897	+·012	7·6	+0·9	19	+6·5	16·00	9·51	+ 6·49	72·87	62·73	+10·14	2·97	Bhamo.
30	0	0	0	0	0	0	0	0	Calm.		0·8			(a)		92	+ 2	·860	−·036	7·5	+0·2	17	+5·1	14·02	9·46	+ 4·56	81·68	65·75	+15·93	2·37	Myitkyina.
																															II.—Assam.
23	0	4	3	0	0	0	0	0	N 64° E		0·2			23		90	— 2	·870	−·012	5·5	−1·9	14	−0·7	10·88	12·78	− 1·90	82·87	82·45	+ 0·42	2·17	Dibrugarh.
15	4	3	2	0	2	2	1	1	N 16° E	S 79° E	1·0	1·8	−0·8	10	− 1	93	— 1	·915	−·013	8·7	+0·4	17	+2·5	11·44	11·83	− 0·39	66·60	71·37	− 4·77	1·71	Sibsagar.
21	0	3	4	1	1	1	0	0	N 87° E		1·0			23		93	+ 2	·881	−·032	6·2	−0·7	17	+5·4	15·61	6·89	+ 8·72	103·42	56·28	+47·14	1·81	Tezpur.
23	0	3	3	1	0	0	0	0	N 76° E		0·8			20		90	+ 2	·918	−·006	7·9	+0·9	12	+1·9	8·49	6·20	+ 2·29	64·75	51·86	+12·89	2·16	Gauhati.
1	0	12	12	2	2	1	0	0	N 79° E	N 82° E	3·6	3·1	+0·5	69	+47	89	— 2	·946	+·025	5·2	−1·7	10	−2·8	4·21	14·34	−10·13	93·54	83·17	+10·37	0·55	Dhubri.
26	0	1	2	1	0	0	0	0	E	N 77° E	1·4	1·6	−0·2	11	+ 8	91	+ 1	·938	+·009	5·9	−1·8	16	+1·0	23·00	13·99	+ 9·01	124·53	92·17	+32·36	4·25	Silchar.
																88	+ 1	·906	−·035	4·5		19	+3·2	12·15	10·55	+ 1·60	85·24	76·52	+ 8·72	1·91	Srimangal.
																															III.—Bengal.
11	0	0	5	11	1	2	0	0	S 48° E		3·2			49		91		·916		7·0		18		24·64	12·00	+12·64	206·28	114·96	+91·32	8·91	Cox's Bazar.
7	0	2	17	2	1	1	0	0	S 85° E	S 60° E	2·3	3·2	−0·9	62	− 1	91	+ 3	·934	+·010	6·8	−0·3	10	−2·7	6·90	11·49	− 4·59	109·02	82·89	+26·13	1·63	Chittagong.
7	0	1	5	14	2	1	0	0	S 51° E		3·1			63		91	+ 2	·950	−·002	5·7	+0·8	17	+1·3	21·43	15·48	+ 5·95	106·53	100·20	+ 6·33	3·94	Noakhali.
13	0	1	4	2	8	2	0	0	S 25° E	S 27° E	1·4	2·0	−0·6	37	+11	90	+ 2	·966	−·006	8·9	+2·5?	16	+1·2	16·45	10·77	+ 5·68	81·76	65·46	+16·30	3·39	Barisal.
8	0	0	4	8	6	3	0	1	S 27° E	S 18° E	1·7	3·8	−2·1	49	+ 1	87	− 1	·942	−·028	7·8	+0·2	12	+0·1	10·30	9·11	+ 1·19	82·55	56·79	+25·76	2·61	Narayanganj.

* Mean of 28 days.
(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·711	—·008	29·726	29·786	19th	29·632	5th	81·5	79·1	87·9	+0·3	77·8	+0·1	82·8	+0·2	10·1	91·9	26th	72·3	18th
	Bogra	75	29·683	—·014	29·711	29·749	19th	29·585	6th	82·3	80·4	88·7	+0·1	78·3	+0·6	83·5	+0·3	10·4	94·2	22nd	75·5	11th
	Dinajpur	123	29·623	—·016	29·701	29·683	13th	29·527	6th	82·1	79·6	89·2	+0·6	78·7	+1·2	83·9	+0·9	10·5	93·[illegible]	22nd	75·5	12th
	Jalpaiguri	283	29·492	+·001	29·733	29·561	13th	29·410	7th	79·2	77·8	88·9	+1·2	75·7	−0·1	82·3	+0·5	13·[illegible]	92·5	27th	71·5	21st
	Saugor Island	10	29·745	+·010	29·700	29·843	17th	29·605	1st	83·3	79·8	88·5	+0·3	79·8	+0·1	84·1	+0·2	8·7	92·1	10th	75·6	12th
	Midnapore	149	29·585	—·012	29·643	29·651	24th	29·398	5th	83·2	78·1	90·9	+1·0	77·9	+0·6	84·4	+0·8	13·0	95·0	20th	75·5	24th
	Calcutta	21	29·725	—·007	29·693	29·796	17th	29·575	5th	82·2	79·5	90·0	+2·0	78·7	+0·7	84·4	+1·3	11·3	94·4	20th	74·9	27th
	Jessore	30	29·734	+·003	29·710	29·800	14th	29·615	5th	82·8	78·9	89·1	−0·1	79·3	+0·9	84·2	+0·4	9·8	93·3	24th	76·4	12th & 27th.
	Burdwan	99	29·639	—·016	29·686	29·708	20th & 24th.	29·473	5th	82·7	78·9	90·4	+0·6	78·5	−0·3	84·4	+0·1	11·9	95·2	20th	76·6	28th
	Berhampore	67	29·681	—·006	29·697	29·751	25th	29·538	5th	83·3	79·4	90·1	+1·1	79·6	+1·0	84·8	+1·1	10·5	93·8	23rd	76·8	6th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·702	+·007	29·697	29·792	17th	29·540	1st	81·6	78·7	90·2	+1·4	77·5	−0·4	83·8	+0·5	12·7	91·5	20th	74·5	5th
	Hukitala (False Point)	29	29·744	+·023	29·714	29·853	17th	29·586	1st													
	Cuttack	80	29·693	+·028	29·714	29·804	17th	29·531	1st	81·5	77·8	91·5	+1·4	78·1	0	84·8	+0·7	13·4	95·5	20th & 30th.	75·8	11th
	Puri	24	29·757	+·030	29·722	29·875	17th	29·603	1st	83·2	79·7	89·6	+0·6	80·3	+0·6	84·9	+0·6	9·3	95·1	24th	77·1	2nd
	Angul	955	29·311	+·031	29·712	29·405	17th	29·170	1st	81·1	77·0	90·6	+2·1	76·1	−0·4	83·4	+0·9	14·5	9[illegible]	30th	73·4	30th
	Sambalpur	486	29·294	+·027	29·728	29·389	17th	29·171	1st	81·5	77·6	89·9	+1·0	77·0	−0·1	83·4	+0·5	12·9	94·0	30th	73·0	30th
7	Chaibasa	*733*	29·013	+·013	29·696	29·090	17th	28·868	6th	79·9	75·9	90·9	+1·4	75·6	−0·3	83·3	+0·5	15·3	96·1	23rd	71·7	26th
	Ranchi	2,198	27·651	+·022	29·686	27·722	24th	27·493	6th	77·5	71·9	85·1	+1·0	72·0	0	78·5	+0·5	13·1	88·7	19th, 22nd & 30th.	68·1	29th
	Purulia	*816*	28·937	+·016	29·700	29·931	25th	28·806	5th	81·4	76·4	91·7	+2·4	75·5	−0·2	83·6	+1·1	16·2	96·9	7th	72·1	30th
	Daltonganj	*730*	29·027	+·020	29·711	29·108	19th	28·907	6th	79·1	74·6	91·1	+0·8	73·2	−2·1	82·2	−0·7	17·9	94·3	23rd & 29th.	66·0	30th
8	Purnea	124	29·612	—·000	29·690	29·689	25th	29·500	7th	82·2	79·5	89·4	+0·5	78·0	+0·5	83·7	+0·5	11·4	93·3	22nd	73·8	14th
	Monghyr	155	29·567		29·673	29·642	25th	29·394	7th	83·5	78·2	90·3		6·0		84·2		12·3	94·2	23rd	75·7	4th
	Darbhanga	165	29·572	—·008	29·691	29·647	25th	29·452	7th	82·8	78·4	89·6	+0·[illegible]	78·1	−0·5	83·8	+0·2	11·5	93·0	26th & 29th.	74·9	4th
	Pusa	188	29·541		29·683	29·617	25th	29·406	7th	83·1	79·3	91·2		77·3		84·2		13·9	94·7	21st & 26th.	74·0	24th
	Patna	183	29·554	0	29·691	29·630	14th	29·414	7th	83·2	77·7	89·1	−0·7	78·1	−0·8	83·6	−0·7	11·0	93·8	21st & 26th.	74·5	8th
	Buxar	239	29·492	+·002	29·687	29·567	14th	29·398	7th	80·9	76·2	91·1	+1·0	77·2	−0·5	84·2	+0·3	13·9	97·7	30th	73·6	24th
	Gaya	372	29·373	+·012	29·699	29·463	25th	29·225	7th	81·4	75·7	90·3	−0·6	77·2	−0·6	83·7	−0·6	13·1	95·2	30th	73·2	29th
	Naya Dumka	489	29·253	+·001	29·692	29·338	25th	29·112	6th	82·6	74·7	91·0	+2·1	76·4	−0·2	83·7	+0·9	14·6	94·8	22nd	72·8	24th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·473	−·003	29·688	29·549	14th	29·391	7th	81·0	76·9	91·4	+0·9	75·3	−2·3	83·4	−0·7	16·1	95·3	23rd	71·1	30th
	Benares	267	29·479	+·018	29·699	29·553	14th	29·395	7th	82·0	75·7	92·2	+1·2	74·9	−2·3	83·5	−0·5	17·3	97·0	30th	67·8	29th
	Allahabad	309	29·456	+·034	29·721	29·517	14th	29·366	7th	82·3	74·8	94·1	+2·6	76·3	−0·7	85·2	+0·9	17·8	99·9	30th	69·6	28th
	Cawnpore	416	29·337	+·028	29·708	29·409	24th	29·241	7th	82·5	73·1	96·3	+5·2	77·0	−0·3	86·6	+2·[illegible]	19·3	100·6	17th, 18th & 30th.	71·1	29th

N.B. Elevation in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in September, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															III.—Bengal—*contd.*
20	0	0	3	5	2	0	0	0	S 49° E	S 63° E	1·6	2·0	−0·4	27	−23	89	− 1	·962	+·005	7·8	+0·7	18	+ 2·7	16·90	13·89	+ 3·01	93·89	78·20	+15·60	3·35	Mymensingh.
16	0	3	7	3	0	1	0	0	S 56° E	S 49° E	0·9	2·2	−1·3	37	−19	91	+ 4	1·002	+·050	7·1	+1·4	11	− 1·9	1·41	11·43	− 1·02	90·18	60·18	+30·00	2·34	Bogra.
3	1	4	16	4	0	2	0	0	S 89° E	S 76° E	1·8	2·6	−0·8	67	+15	89	0	·976	+·030	5·5	−1·2	13	+ 0·4	10·27	12·00	− 1·73	100·26	62·16	+38·10	3·20	Dinajpur.
25	1	1	2	0	1	0	0	0	N 75° E	N 73° E	1·1			10	−50	94	+ 4	·941	+·032	4·5	−0·7	15	− 0·4	12·30	19·46	− 7·16	129·85	109·82	+20·03	2·34	Jalpaiguri.
0	3	4	2	2	2	10	3	4	S 74° W	S 2° W	6·7	5·2	+1·5	23	− 6	85	− 3	·970	−·015	7·6	−0·1	10	− 3·5	6·76	11·17	− 4·41	48·43	56·20	− 7·77	2·23	Saugor Island.
23	2	1	1	0	2	1	0	0	E		1·5			3		79	− 7	·889	−·040	6·4	+2·32	10	− 2·1	5·96	8·72	+ 1·24	53·82	48·86	+ 4·96	4·50	Midnapore.
4	0	2	4	2	3	10	3	2	S 28° W	S 13° E	3·0	3·0	0	33	0	88	+ 1	·971	+·008	7·3	+0·4	14	+ 0·8	9·31	9·93	− 0·62	52·00	52·36	− 0·36	3·18	Calcutta.
24	0	0	0	4	2	0	0	0	S 31° E	S 32° E	0·5	2·3	−1·8	20	−17	84	− 5	·938	−·054	6·6	0	13	+ 1·0	10·72	8·50	+ 2·22	57·73	52·89	+ 4·84	1·98	Jessore.
21	0	2	0	3	0	2	1	1	S 18° E	S 18° E	0·6	2·2	−1·6	5	−17	84	− 2	·933	−·011	6·8	−0·1	11	− 0·5	8·42	8·55	− 0·13	63·00	48·68	+14·32	2·40	Burdwan.
10	0	1	7	4	1	5	2	0	S 38° E	S 19° E	2·2	2·7	−0·5	30	− 8	83	− 6	·948	−·027	5·6	−1·6	8	− 3·9	8·51	10·02	− 1·51	71·36	47·97	+23·39	3·50	Berhampore.
																															IV.—Bihar and Orissa.
13	1	4	1	0	7	3	0	1	S 12° E	S 59° W	1·7	2·6	−0·9	17	− 5	87		·936	−·013	6·4	+1·3	12	− 1·3	14·80	12·18	+ 2·62	46·71	49·13	− 2·42	3·74	Balasore.
4	4	0	0	0	0	9	3	6	N 83° W		6·0	6·2	−0·2	56	+19					6·7	−0·6	9	− 3·4	7·49	10·23	− 2·74	32·95	47·94	−14·99	1·64	Hukitala (False Point).
19	0	0	0	0	0	6	2	2	S 86° W	S 81° W	1·3	1·8	−0·5	30	0	84	+ 1	·902	−·003	6·2	+0·1	9	− 3·4	2·09	10·11	− 8·02	35·61	49·33	−13·72	0·49	Cuttack.
9	9	1	0	0	0	5	4	2	N 45° W		6·3			37		85	0	·962	+·004	5·4	−0·2	11	− 0·3	6·34	9·23	− 2·89	51·78	41·37	+10·41	1·38	Puri.
8	0	0	0	0	0	0	5	17	N 55° W		3·0			67		82	− 4	·873	−·026	5·1	+0·6	5	− 5·0	4·71	6·46	− 1·75	37·31	37·47	− 0·16	1·81	Angul.
0	5	1	2	0	4	13	2	3	S 63° W	S	2·7	2·8	−0·1	40	+18	83	+ 1	·890	+·007	6·7	+0·8	7	− 4·5	4·54	8·73	− 4·19	66·62	59·11	+ 9·51	1·41	Sambalpur.
15	1	1	0	1	2	8	1	0	S 39° W	S 53° W	1·9	1·0	+0·9	30	+ 7	83	− 3	·840	−·027	5·4	−0·2	10	− 1·6	5·94	8·58	− 2·64	35·43	43·67	− 8·24	2·28	Chaibasa.
0	1	4	2	1	0	2	12	8	N 61° W	S 79° W	3·8	5·0	−1·2	46	+24	76	− 8	·713	−·040	5·7	−0·4	9	− 3·2	6·13	8·95	− 2·82	41·24	48·48	− 7·24	2·27	Ranchi.
12	0	2	0	2	1	3	4	6	N 82° W		1·4			23		79	− 9	·842	−·047	5·7	+0·4	9	− 2·4	5·74	10·12	−4·38	39·31	44·44	− 5·13	1·80	Purulia.
26	0	0	0	0	0	2	2	0	S 72° W		1·8			10		80	− 4	·799	−·052	4·3	+0·3	10	+ 0·4	7·81	6·97	+ 0·84	43·74	36·53	+ 7·21	1·58	Daltonganj.
1	1	4	11	3	2	4	2	2	S 79° E	N 88° E	2·1	2·2	−0·1	33	− 5	89	− 1	·967	+·009	6·4	+0·7	9	− 2·0	12·07	12·25	− 0·18	77·73	55·69	+22·04	4·35	Purnea.
1	0	2	8	3	1	8	6	1	S 8° W		3·8			23		78		·891		4·2		4		4·61	8·95	− 4·34	62·05	45·49	+16·56	13·17	Monghyr.
17	0	4	5	0	0	2	2	0	N 72° E	S 76° E	2·6	2·8	−0·2	13	−37	82	− 5	·915	−·030	5·4	+0·3	6	− 3·0	6·48	8·58	− 2·10	49·32	45·96	+ 3·26	2·52	Darbhanga.
2	0	3	11	5	1	2	5	1	S 72° E		2·4			30		84		·946		4·4		8		6·43	6·14	+ 0·29	59·94	44·58	+15·36	2·59	Pusa.
10	1	0	6	1	2	0	9	1	S 72° W	S 74° E	3·1	2·8	+0·3	10	−20	77	− 6	·873	−·068	4·7	−1·3	8	− 1·1	25·60	7·53	+18·07	76·59	42·84	+33·75	14·41	Patna.
2	0	2	3	0	1	9	9	4	S 78° W		2·4			47		80	− 4	·841	−·069	4·3	−0·9	8	− 1·0	3·06	7·05	− 3·99	27·50	35·73	− 8·23	1·11	Buxar.
2	2	1	1	3	3	14	3	1	S 48° W	S 37° W	2·6	2·8	−0·2	56	+23	76	− 6	·817	−·077	4·2	−0·7	8	− 1·4	14·06	7·67	+ 6·39	51·93	41·63	+10·30	4·70	Gaya.
28	0	2	0	0	0	0	0	0	N 45° E		0·6			3		81	− 4	·899	−·006	3·9	−1·6	11	− 1·7	8·17	9·12	− 0·95	48·85	49·21	− 0·36	2·02	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
17	1	0	10	0	0	0	2	0	N 83° E	N 63° E	1·6*	1·5	+0·1	27	+ 1	82	− 2	·870	−·043	3·2	−2·4	7	− 1·7	9·34	7·82	+ 1·52	34·51	44·28	− 9·77	3·93	Gorakhpur.
10	0	2	0	0	0	7	7	4	S 87° W	S 31° W	1·3	2·3	−1·0	43	+32	74	−10	·801	−·108	4·3	−0·8	11	+ 2·5	8·52	6·79	+ 1·73	30·12	35·20	− 5·08	4·11	Benares.
9	0	0	1	1	0	3	14	2	S 84° W	N 63° W	2·3	4·3	−2·0	53	+38	70	−11	·769	−·118	4·4	−1·1	6	− 1·5	2·63	5·66	− 3·03	25·49	33·94	− 8·45	1·02	Allahabad.
6	0	0	1	1	1	1	13	7	N 81° W	S 45° W	2·3	2·6	−0·3	56	+48	63	−24	·695	−·171	1·5	−2·1	2	− 4·6	3·11	6·88	− 3·74	16·27	32·28	−16·01	2·85	Cawnpore.

* Mean for 27 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·376	+·018	29·696	29·445	14th	29·271	7th													
	Bahraich	407	29·318	—·001	29·683	29·383	25th	29·244	7th	81·2	75·7	93·1	+1·7	75·1	—1·4	84·1	+0·1	18·0	97·1	29th	72·2	28th & 30th.
10	Jhansi	824	28·958	+·030	29·734	29·026	14th	28·860	4th	82·8	72·7	96·2	+4·7	75·8	—0·3	86·0	+2·2	20·4	101·4	30th	71·3	27th
	Agra	556	29·197	+·019	29·708	29·273	25th	29·096	7th	85·0	73·2	98·5	+5·3	77·3	+0·3	87·9	+2·8	21·2	101·7	30th	72·9	29th
	Mainpuri	516	29·233	+·024	29·706	29·317	24th & 25th.	29·135	7th	82·8	72·5	97·9	+5·1	76·2	+0·2	87·1	+2·7	21·7	101·4	30th	71·4	27th
	Bareilly	568	29·152	—·001	29·681	29·226	25th	29·050	7th	81·1	73·8	96·2	+5·5	74·7	—1·0	85·5	+2·3	21·5	103·5	19th	67·8	28th
	Roorkee	899	28·831	+·001	29·695	28·911	25th	28·738	7th	79·2	72·2	93·6	+2·7	71·2	—2·1	82·4	+0·3	22·4	97·0	18th	63·3	27th
	VI.—Punjab.																					
11	Delhi	718	29·027	+·019	29·706	29·105	25th	28·921	5th	82·0	70·1	97·5	+4·8	79·1	+2·0	88·3	+3·4	18·4	99·5	18th & 19th.	71·8	24th
	Hissar	725	29·037	+·043	29·724	29·120	14th	28·931	5th	81·7	70·3	98·7	+0·6	73·9	—2·0	86·3	—0·7	24·8	102·1	20th	67·5	28th
	Patiala	*818*	28·902	—·006	29·682	29·072	24th	28·805	5th	81·9	71·5	95·7	+2·5	74·6	+0·1	85·1	+1·3	21·1	98·6	19th	68·8	28th
	Ambala	892	28·826	—·003	29·681	28·912	25th	28·727	5th	81·4	70·9	98·6	+5·7	73·9	+0·1	86·3	+2·9	24·7	101·9	19th	66·1	28th
	Ludhiana	812	28·919	+·013	29·698	29·011	25th	28·820	1st	81·0	70·7	97·7	+3·4	75·4	+0·2	86·6	+1·8	22·3	101·9	18th	71·0	26th
	Lahore	702	29·016	+·011	29·687	29·104	25th	28·912	1st	81·3	71·4	98·3	0	73·8	+0·4	86·1	+0·2	24·5	102·8	19th & 20th.	67·3	28th
	Sialkot	830	28·883	0	29·686	28·960	25th	28·781	1st	78·6	71·3	94·6*	—1·1*	71·1	—3·0*	81·7*	—2·1*	23·5	97·9	18th	62·5	25th
	Rawalpindi	1,674	28·080	+·013	29·707	28·160	26th	27·960	5th	78·4	71·1	93·0	—0·5	68·4	—0·7	80·7	—0·6	24·6	97·9	10th & 21st.	61·4	29th
12	Khushab	612	29·112	+·017	29·691	29·202	24th	29·012	1st	83·8	70·7	100·0	+1·1	74·3	—1·9	87·2	—0·4	25·7	105·2	20th	66·2	29th
	Lyallpur	605	29·105		29·680	29·199	24th	29·004	1st	81·1	71·0	97·8		72·5		85·1		25·3	102·0	20th	60·7	26th
	Montgomery	558	29·158	+·013	29·683	29·241	24th	29·058	7th	82·5	70·4	99·4	—1·2	73·3	—2·5	86·4	—2·0	26·1	102·8	20th	67·3	26th
	Multan	426	29·287	+·022	29·676	29·397	24th	29·182	7th	84·0	73·9	100·8	+0·3	76·9	—0·6	88·9	—0·1	23·9	104·4	17th	71·1	26th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·627	+·003	29·715	28·714	14th	28·522	1st	77·2	69·1	96·6	+1·0	68·9	—1·6	82·7	—0·3	27·7	101·5	10th	60·0	21st
	D. I. Khan	590	29·137	+·017	29·697	29·219	26th	29·020	1st	81·4	71·0	100·3	+0·5	74·3	—0·7	87·3	—0·1	26·0	104·7	9th	65·1	28th
	VIII.—Sind.																					
16	Jacobabad	186	29·554	+·039	29·692	29·644	24th	29·416	1st	83·1	73·0	103·6	—0·1	75·6	—0·6	89·6	—0·3	28·0	109·3	20th	68·6	25th
	Hyderabad	96	29·674	+·039	29·723	29·757	14th	29·514	1st	78·9	72·2	96·9	—0·5	74·1	—2·1	85·5	—1·3	22·8	104·1	29th	70·0	27th
	Karachi	13	29·820	+·055	29·784	29·914	24th	29·671	1st	78·6	73·7	83·8	—1·8	75·0	+0·1	79·8	—0·9	7·9	85·5	14th	73·1	29th
	IX.—Rajputana.																					
17	Bikaner	771	29·014	+·052	29·746	29·090	14th	28·901	5th	82·6	74·3	100·0	+1·9	76·0	—2·8	88·0	—0·5	24·0	104·0	29th	68·9	30th
	Jodhpur	780	29·044	+·053	29·786	29·116	25th	28·910	1st	79·2	70·2	94·9	0	73·6	—1·9	84·3	—0·9	21·3	101·4	29th	66·5	25th
18	Jaipur	1,431	28·390	+·047	29·772	28·461	14th	28·262	5th	79·5	70·3	95·2	+1·2	72·3	—1·2	83·7	0	22·9	100·5	29th	67·5	26th
	Ajmer	1,611	28·209	+·036	29·763	28·280	25th	28·083	5th	78·5	69·3	92·0	+1·6	75·8	+1·7	83·9	+1·7	16·2	97·6	29th	72·3	1st
	Kotah	832	28·974	+·047	29·756	29·054	14th	28·853	5th	84·1	72·8	94·7	+2·2	76·4	—0·7	85·6	+0·7	18·3	101·6	29th	74·2	1st & 9th

N. B.— Elevations in italics indicate barometrical determinations. * Mean of 20 days.

B—*continued.*

stations in India, etc., in September, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
22	0	0	[illegible]			0	4	0	W	S 83° E	1·0	2·0	−1·0	3	− 4					3·1	−1·3	5	−2·3	7·36	6·72	+0·64	27·14	34·76	−7·62	3·04	Lucknow.
23	2	0	1	0	1	0	3	0	N 63° W	S 68° E	1·2	2·3	−1·1	7	−34	77	− 5	·815	−·089	2·9	−0·4	7	+0·6	9·03	7·83	+1·20	36·66	40·23	−3·57	4·18	Babraich.
1	0	0	0	0	0	14	15	2	S 74° W	N 1° E	4·0	2·4	+1·6	86	+51	60	−17	·668	−·146	0·8	−2·1	4	−3·4	2·35	6·08	−3·73	14·41	33·26	−18·85	0·93	Jhansi.
16	0	0	[illegible]	0	1	8	4	1	S 60° W	S 59° W	2·3	3·3	−1·0	40	+18	55	−19	·661	−·141	2·3	−1·2	3	−2·2	2·23	4·05	−1·82	11·87	23·87	−12·00	1·75	Agra.
8	2	1	[illegible]	[illegible]	0	2	9	8	N 66° W	S 86° W	1·3	1·1	+0·2	53	+24	59	−20	·665	−·171	2·8	−1·4	1	−4·5	0·15	4·42	−4·27	11·07	23·32	−12·25	0·15	Mainpuri.
22	1	1	0	0	0	0	4	2	N 56° W	S 56° E	0·5	1·7	−1·2	20	− 6	70	−12	·744	−·105	2·7	−0·8	2	−4·6	0·66	7·44	−6·78	18·85	39·56	−20·71	0·46	Bareilly.
25	1	0	0	3	1	0	0	0	S 45° E	S 58° E	1·8	1·4	+0·4	10	− 6	70	−12	·704	−·085	0·9	−2·4	2	−3·4	2·54	6·38	−3·84	23·79	36·35	−12·56	2·22	Roorkee.
																															VI.—Punjab.
0	0	1	0	[illegible]	0	1	14	13	N 70° W	S 85° W	3·7	2·6	+1·1	76	+47	53	−18	·582	−·178	0·4	−2·7	1	−3·4	0·35	4·98	−4·63	11·32	23·69	−12·37	0·35	Delhi.
2	1	0	1	0	3	8	14	2	S 70° W	S 59° W	4·3	3·6	+0·7	69	+47	54	−12	·591	−·141	1·8	−0·1	1	−2·0	0·91	1·97	−1·06	6·68	11·68	− 4·99	0·77	Hissar.
4	3	4	0	2	0	3	6	8	N 48° W		4·4			40		59	−17	·645	−·164	1·6	−0·3	0	−4·2	0	4·54	−4·54	13·98	20 23	− 6·25	0	Patiala.
8	4	0	5	2	0	0	5	6	N 24° W	S 39° W	3·2	1·1	+2·1	27	− 2	58	−23	·636	−·165	1·8	−1·2	1	−3·5	0·11	4·65	−4·54	9·44	24 53	−15·09	0·11	Ambala.
25	1	1	0	0	0	2	1	0	N 79° W	S 20° E	1·1	1·0	+0·1	6	− 6	58	−18	·613	−·159	0·9	−1·8	0	−3·8	0·13	4·11	−3·98	10 67	22·33	−11·66	0·07	Ludhiana.
12	1	1	0	3	3	0	8	2	S 73° W	S 34° E	1·3	1·5	−0·2	23	+ 8	59	−11	·639	−·120	1 0	−0·6	2	−0·5	0·44	2·35	−1·91	6·97	15·41	− 8·44	0·21	Lahore.
8	5	3	7	3	1	1	0	2	N 63° E	N 73° E	1·0	1·3	−0·3	33	− 8	69	−32	·676	−·077	1·5	−0·6	1	−2·8	0·79	3·38	−2·59	12·04	23·31	−11·27	0·56	Sialkot.
12	5	4	1	1	2	2	3	0	N 1° E	N 56° E	1·7	1·1	+0·6	12	− 3	69	0	·672	+·013?	3·4	+1·3	4	−0·3	2·16	3·38	−1·22	14·39	23 07	− 8·68	0·96	Rawalpindi.
12	2	5	6	2	0	2	1	0	N 72° E	N 65° E	3·2	3·9	−0·7	30	−26	51	−11	·582	−·119	1·7	+0·4	3	+0·9	0·71	1·25	−0·54	4·33	10·18	− 5 85	0·40	Khushab.
4	0	1	1	4	4	11	1	4	S 32° W		2·3			43		59		·626		1·0		2	0	0·75	1·75	−1·00	6·26	10·03	− 3·53	0·40	Lyallpur.
1	1	2	0	1	12	10	3	0	S 24° W	S 4° W	3·9	5·0	−1·1	62	−18	53	− 4	·584	−·103	0·9	−0·2	1	−0·7	0·31	1·29	−0·98	4·27	8·06	− 3·79	0·21	Montgomery.
13	3	0	0	3	4	7	0	0	S 20° W	S 5° W	1·2	1·9	−0·7	27	−14	60	− 5	·703	−·049	0·8	+0·1	0	−0·6	0·04	0·32	−0·28	1·41	5 11	− 3·70	0·04	Multan.
																															VII.—North-West Frontier Province.
30	0	0	0	0	0	0	0	0	Calm.	N 34° W	0·9	2·0	−1·1	*a*		65	+ 1	·609	−·039	1·3	−0·1	2	+0·5	0·83	0·77	+0·06	2·38	5·31	−2·93	0·71	Peshawar.
22	0	7	0	1	0	0	0	0	N 52° E	N 67° E	1·5	1·3	+0·2	27	− 3	58	−11	·621	−·126	0·5	−0·3	1	+0·1	0·22	0·55	−0 33	1·60	5·76	−4·16	0·22	D. I. Khan.
																															VIII.—Sind.
9	0	1	0	15	0	4	0	1	S 33° E	S 48° E	2·1	2·1	0	49	+ 1	69	−11	·679	−·127	0·5	−0·1	0	−0·2	0	0·08	−0·08	0	2·30	−2·30	0	Jacobabad.
0	0	0	0	0	0	11	17	2	S 30° W	S 39° W	9·2	8·9	−0·7	89	+15	71	+ 3	·696	−·030	0	−1·5	2	+1·4	0·39	0·52	−0·13	1·26	6·16	−4·90	0·23	Hyderabad.
0	0	0	0	0	0	0	7	21	2	S 83° W	S 77° W	11·0	10·7	+0·3	89	+ 8	78	− 4	·763	−·048	5·0	+0·2	0	−0·6	0	0·40	−0·40	0·10	5·97	−5·87	0	Karachi.
																															IX.—Rajputana.
0	[illegible]	0	0	0	5	18	7	0	S 49° W	S 46° W	6·2	5·0	+1·2	89	+29	67	+ 2	·739	−·003?	1·2	−0·9	1	−1·0	0·26	1·18	−0·92	1·70	9·58	−7·88	0·19	Bikaner.
7	0	0	0	0	1	25	2	0	S 46° W		3·6			89		62	− 7	·621	−·101	2·1	−2·2	0	−2·5	0	2·26	−2·26	1·49	11·61	−10·12	0	Jodhpur.
1	2	0	0	0	0	0	9	18	N 56° W	N 68° W	3·0	3·1	−0·1	89	+48	62	− 8	·623	−·096	2·5	−1·2	1	−3·6	1·46	3·27	−1·81	8·48	21·67	−13·19	1·42	Jaipur.
0	0	0	0	0	0	4	25	1	S 86° W	S 89° W	4·5	4·1	+0·4	96	+29	62	−14	·597	−·145	2·3	−1·3	1	−2·9	0·10	2·52	−2·42	5·63	18·43	−12·80	0·10	Ajmer.
5	0	0	0	0	0	3	10	12	N 73° W		2·1			72		56	−12	·653	−·087	2·5	−0·6	2	−3·6	1·93	4·36	+2·43	14·92	24·69	−9·77	1·56	Kotah.

a Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·404	+·069	29·828	29·480	24th	29·266	1st	78·1	73·3	90·9	-2·4?	72·1	-2·0	81·5	-2·2?	18·8	97·9	28th	66·7	26th
	Bhuj	334	29·521	+·055	29·807	29·596	14th	29·380	1st	79·9	72·5	90·9	-1·1	73·8	—0·8	82·3	—0·9	17·1	96·0	27th	69·3	26th
	Jamnagar	61	29·803	+·039	29·810	29·869	14th	29·657	1st	80·4	74·5	89·3	—0·1	71·7	—2·6	80·4	—1·3	17·6	92·3	7th & 9th	68·4	27th
	Dwarka	37	29·839	+·049	29·822	29·916	24th	29·690	1st	80·1	75·3	85·4	+0·2	78·2	+0·9	81·8	+0·5	7·2	87·2	14th & 15th.	75·4	1st
	Rajkot	429	29·438	+·046	29·819	29·505	24th	29·297	1st	78·8	72·0	91·3	+2·7?	68·1	-4·1?	81·2	-0·7?	26·2	98·3	28th	65·5	22nd & 24th.
	Veraval	*18*	29·868	+·044	29·829	29·929	24th	29·741	1st	79·6	75·1	83·5	—0·1	77·0	+0·7	80·3	+0·3	6·5	86·1	17th & 19th.	71·8	26th
	Bhavnagar Para	55	29·831	+·055	29·832	29·902	24th	29·696	1st	80·3	74·8	94·2	+1·2	73·6	—1·5	83·9	—0·1	20·6	100·6	29th	71·2	24th
	Surat	39	29·862	+·057	29·844	29·925	24th	29·746	1st	81·7	75·1	90·3	+1·7	74·2	—0·9	82·6	+0·4	15·5	96·3	28th	70·5	29th
	Ahmadabad	163	29·725	+·066	29·836	29·791	24th	29·593	1st	79·9	73·3	93·8	+1·5	73·6	—2·5	83·7	—0·5	20·2	100·9	29th	71·0	26th
25	Bombay	37	29·881	+·049	29·861	29·952	18th	29·779	5th	79·6	76·0	86·2	+1·5	77·3	+0·6	81·8	+1·1	8·9	88·1	17th	75·2	2nd
	Ratnagiri	207	29·721	+·051	29·868	29·783	18th	29·679	5th	80·0	75·0	84·7	+0·6	75·0	+0·5	79·9	+0·5	9·7	85·7	18th	72·1	30th
	Marmagao	*60*	29·884	+·039	29·878	29·950	18th	29·807	5th	78·3	76·7	83·8	+0·6						86·0	29th		
	Karwar	44	29·899	+·042	29·877	29·972	20th	29·826	5th	76·6	75·0	84·0	+1·4	74·3	+0·3	79·1	+0·9	9·7	85·6	29th & 30th.	71·9	23rd
26	Malegaon	1,430	28·458	+·060	29·832	28·515	18th & 20th.	28·343	5th	78·4	69·6	92·4	+4·2	69·8	—0·4	81·1	+1·9	22·6	98·4	30th	65·2	29th
	Ahmadnagar	2,154	27·758	+·049	29·831	27·814	18th & 19th.	27·656	5th	74·9	67·6	88·5	+2·9	67·8	—0·1	78·2	+1·4	20·7	94·6	30th	60·7	30th
	Poona*	1,846	28·046	+·043	29·831	28·120	10th	27·363	5th	73·8	69·0	87·3	+3·5	67·4†	—1·4†	77·5†	+1·1	19·9	95·2	29th	61·3	29th
	Sholapur	1,590	28·301	+·041	29·838	28·359	18th	28·219	5th	76·2	69·7	90·5	+2·2	71·4	+0·8	80·9	+1·5	19·1	95·6	29th	63·1	4th
	Bijapur	*1,948*	27·972	+·057	29·852	28·012	18th	27·900	5th	74·4	69·0	88·3	+1·6	69·8	+0·1	79·0	+0·9	18·5	92·7	14th	67·1	6th
	Belgaum	2,562	27·403	+·061	29·890	27·454	18th	27·331	5th	69·3	67·6	80·5	+1·5	61·3	—1·0	72·4	+0·3	16·2	84·6	16th	60·7	30th
	XI.—Central India.																					
20	Neemuch	1,626	28·224	+·053	29·796	28·295	14th	28·114	5th	76·7	70·2	88·2	+0·3	69·8	-1·1	79·0	—0·4	18·4	96·9	29th	66·6	25th
	Indore	1,823	28·043	+·054	29·806	28·106	23rd	27·926	5th	76·1	70·4	87·3	+2·2	68·7	—1·3	78·0	+0·5	18·6	95·1	29th	64·2	22nd
21	Nowgong	754	29·025	+·036	29·737	29·085	24th	28·930	5th	78·9	72·1	94·2	+4·3	73·6	—1·4	83·9	+1·5	20·6	100·6	29th	68·9	29th
	Satna	1,041	28·731	+·041	29·724	28·802	14th	28·645	5th	80·2	72·7	89·3	+1·4	73·8	-0·9	81·6	+0·3	15·5	94·8	30th	68·3	29th
	XII.—Central Provinces.																					
22	Buldana	2,134								74·8	68·7	86·5	+3·4	70·3	+1·0	78·4	+2·2	16·2	92·9	28th	66·4	30th
	Akola	925	28·632	+·055	29·803	28·987	20th	28·835	4th & 5th.	80·8	71·4	94·4	+5·4	74·7	+2·0	84·6	+3·7	19·7	100·6	29th	70·1	25th
	Amraoti	1,215	28·631	+·055	29·790	28·696	18th	28·528	5th	79·3	70·9	91·9	+3·7	72·9	+0·8	82·4	+2·3	19·0	97·8	30th	68·8	25th
23	Khandwa	1,044	28·818	+·063	29·816	28·877	14th	28·701	5th	78·0	70·8	91·9	+3·9	73·0	—0·1	82·5	+1·9	18·9	99·3	28th	76·2	30th
	Hoshangabad	1,006	28·842	+·069	29·802	28·906	14th	28·725	4th	77·7	72·9	88·9	+1·5	70·7	—2·4?	79·8	—0·5?	18·2	95·7	29th	65·8	30th
	Saugor	1,807	28·009	+·035	29·752	28·077	14th	27·896	5th	76·6	69·8	89·4	+3·2	70·7	—0·8	80·0	+1·2	18·7	95·1	29th	67·6	22nd & 24th.
	Jubbulpore	1,327	28·479	+·050	29·753	28·535	14th	28·360	5th	77·6	71·9	88·4	+1·3	72·3	—0·4	80·4	+0·5	16·1	92·9	29th	67·1	24th
	Seoni	2,033	27·809	+·061	29·765	27·873	17th	27·697	5th	77·6	69·9	85·8	+0·5	69·9	—0·6	77·9	—0·1	15·9	92·1	29th	65·4	24th
	Nagpur	1,017	28·812	+·059	29·775	28·886	17th	28·704	5th	80·0	72·4	91·5	+2·5	73·8	0	82·7	+1·3	17·7	96·8	30th	67·7	29th
24	Pendra	2,040	27·771	+·054	29·724	27·851	19th	27·642	5th	78·7	71·4	87·1	+2·5	70·6	—0·6	78·8	+0·9	16·5	90·9	18th	67·8	27th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 19 days.
† „ 17 „

B—*continued.*

stations in India, etc., in September, 1918—*continued.*

Wind direction: Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity: Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness: Actual percentage.	Departure from normal.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud: Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall: Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	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	54	55
																															X.—Bombay.
2	1	0	0	0	1	7	11	8	N 88° W	S 79° W	4·8	6·1	−1·3	69	+10	78	+ 2	·754	−·027	3·5	−1·4	2	−1·5	1·04	3·42	− 2·38	15·51	22·72	−7·21	0·77	Deesa.
0	0	0	0	0	0	6	24	0	S 82° W	N 87° W	7·2	8·9	−1·7	32	+14	69	− 9	·698	−·108	4·4	−0·3	1	−1·1	0·31	1·85	− 1·54	2·77	13·56	−10·79	0·31	Bhuj.
0	0	0	0	0	0	14	15	1	S. 70° W		9·5			91		75	− 2	·772	−·049	2·8	−0·2	2	+0·1	0·54	2·32	− 1·78	3·36	17·94	−14·58	0·29	Jamnagar.
0	0	0	0	0	1	15	13	1	S 66° W		10·2			86		79	− 4	·810	−·061	4·3	−0·1	1	−0·3	0·35	1·14	− 0·79	1·02	13 60	−12·58	0·35	Dwarka.
0	0	0	0	0	4	12	12	1	S 60° W	N 87° W	7·9	6·6	+1 3	79	+ 5	70	−11	·688	−·111	4·1	−0·8	3	−1·8	1·73	3·85	− 2·12	9·67	25·19	−15·52	1·11	Rajkot.
5	2	0	0	1	2	6	11	3	S 80° W	N 86° W	6·1	5·8	+0·3	56	+ 1	80	− 6	·809	−·052	3·6	−1·7	2	−1·4	0·21	2·27	− 2 05	6·10	17·48	−11·38	0·11	Veraval.
0	0	0	0	0	0	7	18	5	S 87° W	S 63° W	4·4	7·9	− 3 5	88	+15	76	− 2	·788	−·033?	3·8	−1·9	0	−5·7	0·03	3·72	− 3·69	6·54	21·53	−14·99	0·03	Bhavnagar Pars.
15	2	0	0	1	1	3	4	9	N 83° W	S 78° W	3·1	5·0	−1·9	27	−25	72	−10	·779	−·078	5·0	−0·7	2	−5·0	0·59	6·00	− 5·41	16·31	39·14	−22·83	0·46	Surat.
1	0	0	0	0	0	10	4	15	N 81° W	N 68° W	2·7	2·6	−0·1	69	+12	72	− 6	·732	−·075	3·3	−2·4	2	−2·3	1·48	3·73	− 2·25	8·13	28·37	−19·94	0·75	Ahmadabad.
1	1	2	8	10	1	1	5	1	S 61° E	S 56° W	4·7	7·9	−3·2	40	+25	84	− 3	·847	−·035	5·6	−1·7	7	−6·0	3·11	10·57	− 7·46	33·99	68·69	−34·70	0·75	Bombay.
6	5	3	4	6	1	1	2	2	N 67° E	S 73° W	5·2	5·0	+0·2	23	+16	78	− 9	·800	−·056	5·3	−1·0	9	−6·3	4·29	11·94	− 7·65	64·05	95·78	−31·73	1·89	Ratnagiri.
11	2	2	10	2	1	1	1	0	N 88° E	N 54° W	4·1	5·4	−1·3	37	−16	93	+ 2	·898	+·008	7·5	+1·1?	15	−0·3	9·78	8·54	+ 1·24	89·19	88·07	+ 1·12	2·45	Marmagao.
29	0	0	0	0	0	1	0	0	S 45° W	N 36° W	1·3	2·1	−0.8	3	−31	93	+ 4	·851	+·023	5·6	−0·4	11	−4·8	5·21	11·55	− 6·34	94·43	112·47	−18·04	1·05	Karwar
2	0	1	0	0	2	11	13	1	S 68° W	N 87° W	5·7	6·6	−0·9	72	+ 2	64	−12	·616	−·090	4·1	−0·6	3	−4·8	2·25	5·76	− 3·51	7·74	19·52	−11·78	0·90	Malegaon.
10	1	0	0	0	0	1	5	13	N 57° W	N 70° W	4·4	9·1	−4·7	56	−33	68	−12	·586	−·087	3·0	−2·4	6	−2·5	3·10	6·18	− 3·08	10·78	18 57	−7 79	1·35	Ahmadnagar.
1	0	2	0	0	1	1	9	5	N 75° W	N 87° W	10·1†	8·1	+2·0	71	+ 1	78	− 3	·618	−·030	3·1	−3·8	2	−5·4	0·61	4·53	− 3·92	7·57	21·76	−14·19	0·40	Poona.
2	0	1	0	0	0	1	5	21	N 53° W	N 68° W	7·0	6·1	+0·9	82	+15	72	− 5	·644	−·031	7·5	+0·5	7	−2·3	3·48	7·88	− 4·40	13·34	23·10	−9·76	1·14	Sholapur.
1	5	0	0	0	0	3	4	17	N 50° W	N 87° W	5·6	5 3	+0·3	76	+ 1	76	− 5	·642	−·044	4·7	−1·6	8	−1·1	3·75	5·92	− 2·17	9·20	15·22	−6·02	0·90	Bijapur.
23	0	0	0	0	0	2	3	1	S 82° W	N 81° W	3·4	11·5	−8·1	17	−53	91	+ 2	·653	−·007	7·0	−0·5	5	−3·9	4·29	4·70	− 0·41	22·97	42·25	−19·28	1·89	Belgaum.
																															XI.—Central India.
4	1	0	0	0	0	3	21	1	S 89° W	N 89° W	6·5	6·4	+0·1	79	+24	73	− 7	·658	−·083	2·6	−1·4	4	−2·6	3·00	4·87	− 1·87	19·12	26·71	−7·59	1 84	Neemuch
6	1	0	0	0	0	0	13	10	N 68°.W	N 60° W	3·5	3·0	+0·5	69	+17	75	−10	·671	−·070	4·9	−1·7	3	−5·6	1·27	6·70	− 5·43	16·10	30·12	−14·02	0·55	Indore.
2	0	0	0	1	0	10	10	7	S 83° W	N 89° W	2·1	1·7	+0·4	69	+30	71	−12	·694	−·136	3·8	−1·3	4	−3·1	2·13	6·16	− 4·03	12·43	39·32	−26 89	1·17	Nowgong.
3	1	2	1	0	0	12	11	0	S 71° W	N 69° W	2·6	4·5	−1·9	59	+21	69	−13	·712	−·116	2·6	−2·8	6	−2·8	8·47	6·81	+ 1·66	28·40	39·11	−10·71	2·90	Sutna.
																															XII.—Central Provinces.
0	0	0	0	0	0	13	17	N 64° W			5·5	5·9	−0·4	90		73		·823		5·7		1	−8·2	1·18	7·04	− 5·86	19·73	30·25	−10·52	1·13	Buldana.
0	0	0	9	0	1	15	14	N 70° W	N 69° W	5·5	4·7	+0·8	86	+12	61	−19	·639	−·119	6·3	+0·1	1	−7·4	0·40	5·80	− 5·40	12·90	27·84	−14·94	0·21	Akola.
2	0	0	0	0	0	10	8	N 70° W	S 88° W	2·7	3·9	−1·2	56	− 3	65	−18	·649	−·116	4·3	−1·7	5	−3·2	1·69	6·22	− 4·53	20·59	29·34	−8·75	1·03	Amraoti.
1	0	0	0	0	0	16	13	N 68° W	N 79° W	5·3	4·7	+0·6	89	+11	70	−12	·655	−·098	4·3	−1·0	1	−6·5	0·30	6·17	− 5·87	13·40	27·09	−13·69	0·27	Khandwa.
0	0	0	0	0	11	0	5	S 70° W	S 51° W	1·7	1·9	−0·2	40	− 8	78	− 8	·744	−·055	3·4	−2·7	1	−9·0	0·27	8·75	− 8·48	26·06	44·98	−18·92	0·19	Hoshangabad.
0	0	0	0	0	0	19	11	N 74° W	S 30° W	4·7	3·2	+1·5	92	+48	71	−11	·642	−·102	3·1	−1·8	5	−4·5	4·49	7·10	− 2·61	31·52	41·34	−9·82	1·98	Saugor.
0	0	0	0	2	11	9	3	S 62° W	S 66° W	1·5	2·2	−0·7	62	+29	75	−10	·712	−·082	4·3	−1·2	7	−3·0	4·61	7·81	− 3·20	37·63	50·23	−12·59	1·64	Jubbulpore.
5	0	0	0	0	0	1	5	N 28° W	N 53° W	1·2	2·8	−1·6	33	+ 3	68	−15	·636	−·107	4·3	−0·6	5	−6·2	4·26	8·83	− 4·54	43·44	46·99	− 3·55	1·79	Seoni.
5	2	0	0	0	0	6	16	N 42° W	N 72° W	2·2	3·9	−1·7	76	+43	68	−13	·693	−·093	3·1	−3·0	4	−7·0	2·12	8·34	−6·22	29·61	44·03	−14·42	0·79	Nagpur.
3	0	0	0	0	1	4	11	N 50° W		4·3			62		70	−13	·681	−·060	1·2	−4·1?	2	−8·1	1·57	6·18	− 4·61	36·15	41·02	−4·87	1·43	Pendra.

† Mean of 17 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces —*concld.*																					
	Raipur	970	28·826	+·043	29·741	28·912	17th	28·705	5th	80·3	75·1	89·6	+1·6	74·9	+0·2	82·2	+0·9	14·7	95·2	30th	71·9	24th & 30th.
	Chanda	*634*	29·189	+·030	29·769	29·278	18th	29·090	4th	80·3	74·6	91·4	+2·5	71·6	+0·3	83·0	+1·4	16·8	96·3	29th	69·8	25th
	Jagdalpur	1,813	28·616		29·753	28·114	17th	27·919	4th	76·8	73·2	86·1		71·3		78·7		14·8	90·8	30th	68·3	30th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·996	+·052	29·828	28·048	17th	27·894	5th	76·6	68·3	89·8	+3·7	70·1	+1·4	79·9	+2·5	19·7	94·7	30th	64·0	30th
	Nizamabad	1,248	28·598	+·053	29·785	28·677	17th	28·520	4th	79·2	73·1	92·1	+5·3	72·7	+0·2 P	82·4	+2·7	19·4	96·7	30th	69·5	17th
	Bidar	*2,165*								74·9	70·7	86·9	+3·0	51·0P	−16·5	69·9P	−6·7P	35·9P	91·0	30th	48·4	24th
28	Gulbarga	1,503	28·390	+·051	29·832	28·488	18th	28·319	5th	76·1	70·6	90·5	+2·7	71·9	+0·7	81·2	+1·7	16·6	96·9	30th	69·9	1st
	Raichur	*1,311*	28·563	+·052	29·838	28·645	18th	28·521	5th	76·3	71·7	89·8	+1·6	72·5	+0·1	81·7	+0·9	17·3	97·1	15th	70·3	21st
	Hyderabad (Deccan)	1,738	28·166	+·057	29·814	28·232	17th	28·096	4th	76·9	71·7	88·6	+2·6	72·9	+0·8	80·7	+1·7	15·7	92·3	30th	70·4	23rd
	Hanamkonda	877	28·997	+·049	29·780	29·070	17th	28·874	4th	82·9	74·1	95·2	+5·3	76·5	+1·9	84·8	+3·6	16·7	99·0	30th	73·0	19th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·538	+·040	29·855	27·600	18th	27·472	5th	71·6	68·6	86·9	+3·5	63·0	+0·7	77·4	+2·1	18·9	91·9	13th	65·5	9th
	Hassan	3,149	26·844	+·043	29·867	26·911	18th	26·799	5th	69·8	65·7	82·8	+2·3	64·1	−0·2	73·5	+1·1	18·7	88·0	17th	60·6	22nd
	Bangalore	3,021	26·986	+·039	29·862	27·020	18th	26·911	4th	70·4	66·8	83·7	+1·8	65·7	+0·3	74·7	+1·1	18·0	89·1	14th	62·6	1st
	Mysore	2,518	27·453	+·038	29·871	27·513	18th	27·401	4th	72·8	67·2	86·5	+2·5	66·3	0	76·4	+1·3	20·2	91·0	11th & 14th.	62·3	9th
	XV.—Madras.																					
30	Mangalore	72	29·894	+·034	29·897	29·955	18th	29·838	5th	78·2	75·0	85·0	+1·1	74·2	+0·8	79·6	+0·9	10·8	86·6	10th & 26th.	72·3	23rd
	Calicut	27	29·935	+·034	29·891	30·000	18th	29·891	5th	77·9	75·7	84·9	+1·1	74·5	+0·3	79·7	+0·7	10·4	87·8	19th & 25th.	72·5	28th
	Cochin	9	29·966	+·038	29·903	30·034	18th	29·927	4th & 5th.	79·7	75·1	85·9	+1·0	75·1	+0·6	80·5	+0·8	10·8	88·5	22nd	72·6	28th
	Trivandrum	198	29·772	+·040	29·901	29·844	18th	29·723	11th	77·9	74·4	83·9	+1·1	74·5	−0·6	79·2	+0·3	9·4	85·2	15th	73·0	10th
31	Pamban	37	29·861	+·017?	29·826	29·944	17th	29·806	11th	82·1	76·7	85·9	−3·7?	79·4	+1·1	82·6	−1·3?	6·5	87·6	6th	77·0	16th
	Madura	447	29·458	+·031	29·835	29·938	18th	29·396	4th	83·0	73·4	98·2	+3·1	77·6	+2·4	87·9	+2·7	20·6	100·7	8th	75·8	17th
	Pudukkottai	318	29·591	+·051	29·839	29·681	18th	29·543	4th	83·3	71·9	99·5	+5·1?	77·6	+2·0	88·5	+3·5?	21·9	102·9	11th	75·4	21st & 27th.
	Negapatam	31	29·869	+·033	29·829	29·948	17th	29·825	5th	82·0	75·9	92·9	+0·2?	78·0	+1·3	85·5	+0·7?	14·9	98·0	4th & 9th.	74·6	26th
	Trichinopoly	255	29·662	+·041	29·850	29·735	18th	29·617	4th	82·3	73·7	97·8	+2·6	76·6	+0·8	87·2	+1·7	21·2	103·6	11th	72·4	18th
	Coimbatore	1,341	28·592	+·048	29·861	28·658	18th	28·548	4th	78·3	71·5	91·2	+2·1	70·7	0	81·0	+1·1	20·5	94·0	10th	68·1	1st & 9th
	Salem	913	29·008	+·046	29·857	29·080	18th	28·962	4th	78·8	72·9	95·0	+3·5	74·2	+1·9	84·6	+2·7	20·8	100·9	14th	71·8	6th
	Cuddalore	37	29·847	+·029	29·814	29·932	17th	29·796	5th	82·6	75·7	94·7	+2·5	78·0	+1·8	86·3	+2·1	16·7	100·6	3rd	72·6	14th
	Vellore	707	29·177	+·032	29·820	29·241	18th	29·120	5th	80·3	74·9	94·1	+2·6	75·7	+0·1	84·9	+1·3	18·4	99·0	7th & 8th	72·0	16th
	Madras	22	29·856	+·034	29·809	29·944	19th	29·791	5th	82·7	77·1	94·4	+1·4	78·0	+0·9	86·2	+1·1	16·4	101·1	8th	72·6	23rd
32	Cuddapah	428	29·470	+·041	29·835	29·534	17th	29·405	4th	81·5	75·2	94·7	+1·5	77·1	+1·1	85·9	+1·3	17·6	101·8	10th	72·3	29th

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in Sepember, 1918—*continued.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																													
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal.	Total rainfall from 1st May to 30th September, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																															XII.—Central Provinces—*concld.*
3	1	1	0	0	0	11	11	2	S 79° W	S 63° W	2·5	4·3	−1·8	66	+32	78	— 6	·800	−·029	5·4	−0·4	6	−4·5	4·10	7·64	−3·54	63·42	45·01	+18·41	1·13	Raipur.
2	2	2	1	2	0	3	11	7	N 70° W	N 79° W	2·9	2·9	0	49	+25	75	— 6	·785	−·033	5·7	−0·2	3	−8·2	2·46	9·56	−7·10	37·80	47·45	− 9.65	1·18	Chanda.
15	0	0	0	1	2	1	10	1	S 76° W		2·2			37		84		·773		5·4		12		7·70	12·05	−4·35	55·77	53·03	+ 2·73	1·15	Jagdalpur.
																															XIII.—Hyderabad.
2	4	1	0	0	0	0	12	11	N 57° W		7·7			72		66	−12	·589	−·097	6·8	+1·0	4	−4·9	1·90	6·35	−4·45	12·89	24·29	−11·40	1·30	Aurangabad.
18	3	0	0	0	0	3	5	3	N 69° W		2·3			30		74	— 7	·733	−·027	5·9	−0·4	6	−3·9	1·88	9·48	−7·60	23·84	36·38	−12·54	0·69	Nizamabad.
0	1	0	0	0	0	5	1	23	N 56° W		3·1*			83		81	— 2	·697	−·006	1·9	−3·0?	13	+1·8	11·82	9·45	+2·37	32·73	30·81	+ 1·92	2·08	Bidar.
0	1	0	0	0	0	1	3	2	13 N 73° W	N 54° W	6·2	7·9	−1·7	79	+21	75	— 5	·677	−·034	5·7	−0·6	11	−0·5	5·27	7·50	−2·23	15·27	25·91	−10·64	1·40	Gulbarga.
0	2	0	0	0	0	5	14	9	N 79° W	S 89° W	7·6	7·1	+0·5	79	+10	80	+ 2	·718	+·007	6·3	+0·3	11	+0·2	12·60	7·02	+5·58	21·12	22·25	− 1·13	3·26	Raichur.
4	0	0	0	0	0	0	23	3	N 85° W	N 83° W	4·1	4·1	0	82	+15	77	— 4	·708	−·016	6·4	+0·1	10	+0·8	7·22	6·50	+0·32	17·06	25·52	− 8·46	2·32	Hyderabad (Deccan).
1	0	0	0	1	1	0	14	13	N 72° W		3·5			76		65	−12	·721	−·050	4·8	−1·1	3	−6·3	1·64	6·81	−5·17	18·14	29·88	−11·74	1·01	Hanamkonda.
																															XIV.—Mysore.
0	1	0	0	0	1	11	13	4	S 79° W	S 89° W	6·3	6·4	−0·1	76	−10	86	+ 4	·662	+·017	5·8	−2·0	9	+1·6	3·28	4·06	−0·78	5·00	16·51	−10·51	0·67	Chitaldrug.
2	1	0	0	0	0	0	13	8	N 85° W	N 79° W	6·8	2·6	+4·2	77	+ 1	81	— 2	·589	−·028	5·1	−2·8	7	−0·7	2·63	3·86	−1·23	9·36	22·30	−12·82	1·03	Hassan.
0	0	0	0	0	0	0	20	4	S 87° W	S 82° W	6·4	5·1	+1·3	89	+ 8	83	— 3	·612	−·016	7·8	−0·2	7	−2·4	5·07	6·96	−1·89	20·54	23·48	− 2·94	1·80	Bangalore.
6	0	0	0	0	0	0	11	0	S 66° W	S 74° W	5·8	7·3	−1·5	72	+ 1	74	— 8	·592	−·042	5·7	−2·1	4	−3·9	3·75	4·66	−0·91	12·64	19·01	− 6·17	1·46	Mysore.
																															XV.—Madras.
4	1	2	12	3	3	0	1	4	N 88° E	N 52° E	3·7	1·6	+2·1	39	+28	86	— 1	·821	−·012	6·6	−0·9	12	−3·9	5·38	10·45	−5·07	99·06	114·07	−24·01	0·90	Mangalore.
22	2	2	1	0	0	0	0	3	N 3° E	N 30° W	2·2	5·2	−3·0	18	−15	90	+ 1	·854	+·020	6·3	−0·2	6	−5·7	4·26	7·29	−3·03	80·93	96·45	−15·52	2·65	Calicut.
6	2	7	11	0	0	0	2	2	N 56° E	N 5° E	4·9	3·7	+1·2	49	+ 8	80	— 5	·813	−·026	5·0	−1·3	9	−4·9	3·49	8·65	−5·16	60·85	85·00	−24·15	1·55	Cochin.
5	3	0	0	0	0	0	1	21	N 42° W	N 16° W	6·2	5·9	+0·3	76	− 5	84	+ 1	·802	+·004	6·6	−0·3	3	−4·6	0·98	3·93	−2·95	32·38	37·19	− 4·81	0·34	Trivandrum.
0	0	0	0	4	8	9	7	2	S 37° W	S 42° W	10·9	7·1	+3·8	66	+14	77	0	·847	−·018	3·1	−0·2	1	−1·0	0·15	1·24	−1·09	1·00	3·26	− 2·26	0·15	Pamban.
1	2	1	0	0	0	0	14	12	N 62° W	N 29° W	4·0	2·1	+1·9	79	+ 1	62	— 7	·695	−·052	6·7	+1·8?	1	−5·8	0·15	5·20	−5·05	8·66	15·40	− 6·74	0·13	Madura.
5	6	0	0	0	0	1	3	15	N 41° W		4·3			70		55	−13	·625	−·099?	3·9	−3·0?	0	−6·8	0	5·05	−5·05	8·82	17·28	− 8·46	0	Pudukkottai.
0	1	0	0	0	0	7	22	0	S 82° W	S 72° W	5·8	4·0	+1·8	89	+15	75	+ 1?	·815	+·001	4·7	−0·5	4	−2·2	1·19	3·78	−2·59	8·96	12·21	− 3·25	0·37	Negapatam.
1	0	0	0	0	0	8	19	2	S 81° W	N 87° W	4·2	4·7	−0·5	86	+16	65	— 7	·713	−·044	4·7	−0·9	2	−4·0	3·00	4·56	−1·56	11·18	14·37	− 3·19	1·84	Trichinopoly.
5	0	0	0	1	6	15	2	1	S 37° W	S 33° W	5·?	4·0	+1·1	69	− 5	71	−13	·687	−·053	3·2	−1·9	1	−2·1	0·34	1·49	−1·15	5·41	8·15	− 2·74	0·32	Coimbatore.
5	1	0	0	0	2	18	4	0	S 51° W	S 43° W	4·0	2·5	+1·5	72	+12	74	— 6	·729	−·052	5·7	−0·4	5	−3·8	1·51	6·50	−4·99	13·46	25·03	−11·57	0·67	Salem.
2	0	0	0	0	0	19	8	1	S 60° W	S 84° W	5·8	1·9	+3·9	82	+12	72	— 8	·733	−·070	6·1	+1·0	5	−2·1	2·50	6·58	−4·08	10·34	16·96	− 6·12	0·80	Cuddalore.
7	0	0	0	0	0	0	17	6	N 78° W		3·1			93		77	+ 4	·792	+·040	5·8	+1·0	9	0	4·83	7·32	−2·49	16·51	23·39	− 6·88	0·86	Vellore.
6	0	0	0	0	3	18	3	0	S 45° W	S 68° W	2·1	4·4	−2·3	72	+ 2	78	0	·856	+·003	6·7	+0·4	5	−2·4	3·25	5·21	−1·96	14·56	16·80	− 2·24	0·99	Madras.
0	2	0	0	0	1	1	10	15	N 61° W	N 84° W				79	+ 1	75	+ 1	·793	+·018	7·7	+0·7	8	−0·5	3·72	6·21	−2·49	12·67	20·46	−7·84	1·10	Cuddapah.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras—*concld.*																					
	Bellary	1,475	28·430	+·044	29·843	28·497	18th	28·359	5th	77·1	70·3	91·4	+0·8	72·3	−0·6	81·8	+0·1	19·1	99·1	15th	69·5	20th
	Kurnool	923	28·971	+·057	29·835	29·034	18th	28·906	5th	78·1	72·1	91·0	+1·4	75·0	+1·6	83·1	+1·5	16·0	96·9	10th	70·2	22nd
33	Nellore	66	29·788	+·030	29·788	29·863	17th	29·726	4th	83·1	76·7	96·9	+2·3	79·1	+1·4	88·0	+1·9	17·8	101·9	7th & 8th.	72·0	26th
	Masulipatam	15	29·807	+·035	29·777	29·931	17th	29·731	4th	82·0	78·4	92·6	+1·8	77·4	−0·2	85·0	+0·8	15·2	98·4	8th	72·2	23rd
	Cocanada	26	29·799	+·041	29·762	29·924	17th	29·705	1st	82·2	78·6	92·3	+2·5	78·3	0	85·3	+1·3	14·0	96·0	14th	74·1	27th
	Vizagapatam	33	29·757	+·029	29·735	29·895	17th	29·641	1st	84·6	78·4	90·2	+3·6	79·8	−0·9	85·0	+1·3	10·4	94·0	9th	74·7	28th
	Calingapatam	19	29·771		29·727	29·893	17th	29·648	1st	82·3	78·5	91·9		77·9		84·9		14·0	94·6	25th	73·8	28th
	Gopalpur	33	29·721	+·029	29·717	29·837	17th	29·564	1st	83·3	80·1	90·6	+2·4	79·3	+0·9	85·0	+1·7	11·3	95·5	25th	77·7	1st & 26th.
	Bay Islands.																					
1	P. V. Fraser	8	29·741		29·713	29·837	17th	29·595	1st	83·8	80·5											
	Port Blair	58	29·849	+·028	29·837	29·957	17th	29·752	24th	80·6	77·3	85·2	+0·3	76·9	+0·3	81·0	+0·3	8·3	88·4	12th	73·9	20th
	Table Island		29·781	+·036	29·805	29·896	17th	29·658	1st	80·5	77·3	83·9	−0·6	78·0	+1·2	81·0	+0·3	5·9	87·2	15th	74·1	19th
	Kashmir.																					
13	Muzaffarabad		27·399			27·487	26th	27·126	8th	71·4	63·4	90·7		64·3		77·4		26·4	95·0	21st	56·1	26th & 27th.
	Srinagar	5,204	24·859	+·014	24·830	24·941	26th	24·734	1st	61·3	56·2	77·4	−2·0	59·3	−3·7	63·8	−2·9	27·1	82·9	7th	43·1	27th
	Gulmarg	*8,569*	21·882	+·006	21·851	21·921	13th	21·803	1st	53·3	48·9	62·3	−0·9	39·6	−3·4	50·9	−2·1	22·7	67·9	9th	30·3	25th
	Dras	*10,059*	20·823	+·012	20·791	20·871	16th	20·759	1st	47·7	41·4	64·5	−5·9	39·3	−0·2	51·9	−3·1	25·2	74·6	1st	32·0	24th
	Leh*	*11,503*	19·744	+·004	19·712	19·796	24th	19·671	1st	51·5	41·0	70·3	0	42·1	+0·5	56·2	+0·3	28·2	78·6	5th	33·9	29th
	Skardu	*7,505*	22·848	+·004	22·817	22·973	20th	22·715	1st	57·7	49·1	74·1	−3·4	51·2	−2·6	62·6	−3·0	22·9	85·9	1st	41·6	29th
	Gilgit	4,890	25·083	+·026	25·056	25·202	29th	24·969	1st	69·4	61·7	83·7	−3·4	59·8	−4·5	71·7	−3·9	23·9	93·7	3rd	52·7	17th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·355		25·324	25·421	16th	25·268	1st	76·4	61·4	91·1		63·8		77·5		27·3	97·3	7th	54·9	30th
	Quetta	5,502	24·620	+·013	24·580	24·695	28th	24·505	1st	57·3	48·9	84·6	−1·1	48·4	−0·8	66·5	−0·9	36·2	90·1	1st & 2nd.	40·1	30th
	Chaman	4,311	25·624	−·018	25·585	25·730	28th	25·499	1st	69·5	53·0	88·0	−0·8	61·4	+1·2	74·7	+0·2	26·6	93·8	2nd	52·3	29th
	Kalat	6,630	23·752		23·714	23·823	16th	23·640	1st	51·7	45·5	81·3	−4·1	44·7		63·0		36·6	88·1	2nd	38·5	30th
	Dalbandin	2,772	27·013		27·007	27·139	28th	26·898	1st	66·4	51·5	96·4		57·5		76·9		38·9	102·3	12th	51·5	24th
	Pasni		29·834		29·794	29·915	24th	29·708	1st	75·4	71·8			64·0							59·9	23rd
	Panjgur		26·684		26·642	26·802	28th	26·553	1st	66·5	52·5	93·4		60·3		76·8		33·1	99·4	12th	51·8	20th
	Robat		26·851		26·809	27·028	28th	26·686	1st	73·2	54·4	97·9		58·4		78·1		39·5	102·4	12th	52·1	28th
	Seistan (*e*)		28·058			28·230	28th	27·810	1st	70·4	57·0	91·6		62·0		76·8		29·6	97·5	1st	52·9	24th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·422	+·020	24·399	24·480	25th	24·315	7th	68·0	56·7	80·5	−1·1	57·4	−1·5	69·0	−1·3	23·1	87·4	10th	48·1	30th
	Cherat	*4,956*	25·634	−·009	25·602	25·700	13th	25·542	3rd	71·2	58·8	83·6	−1·4	64·8	−0·9	74·2	−1·1	18·8	89·7	27th	58·3	26th
	Drosh (*e*)		25·021			25·100	28th	24·900	1st	67·4	57·6	87·3	−1·4	62·6	−0·7	75·4	−1·1	23·7	98·5	3rd	43·4	28th
	Murree	6,333	23·815	−·013	23·783	23·886	13th	23·740	5th	62·2	53·5	71·7	−1·6	58·2	−0·3	64·9	−0·9	13·5	76·4	9th	45·2	26th

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 29 days.

(*e*) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*continued.*

stations in India, etc., in September, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras—*concld.*
2	1	0	0	0	0	3	14	10	N 75° W	N 79° W	6·2	6·7	- 0·5	79	+ 1	71	+ 1	·654	0	6·9	−0·1	9	+1·8	6·25	4·62	+1·56	19·96	12·74	−2·78	2·10	Bellary.
0	1	0	0	0	0	3	13	13	N 72° W	N 88° W	5·5*			82	+34	74	— 4	·706	−·038	7·4	+0·8	8	−1·8	6·94	6·15	+0·79	17·70	20·35	−2·65	2·25	Kurnool.
10	0	0	0	0	0	5	10	5	W	N 68° W	3·1	4·9	−1·8	57	— 2	71	0	·809	0	6·8	−0·8	6	−0·3	2·68	4·64	−1·96	8·69	12·77	−4·08	1·24	Nellore.
1	0	0	0	0	1	6	6	16	N 74° W	N 68° W	4·7	4·2	+0·5	72	+13	85	+ 1	·919	−·003	6·2	−0·8	13	+3·8	8·44	5·90	+2·54	26·42	24·66	+1·76	1·90	Masulipatam†
14	0	0	0	0	0	7	7	2	S 75° W	N 87° W	4·3	4·7	−0·4	45	−22	85	+ 3	·929	+·033	7·2	+1·0	9	+0·7	6·99	5·71	+1·19	21·88	23·09	−1·21	3·73	Cocanada.
8	1	0	0	0	1	1	11	8	N 74° W	N 86° W	5·7			56	−11	76	— 2	·891	+·005	6·4	−0·9	8	−1·1	5·12	7·18	−2·06	18·76	24·18	−5·42	1·77	Vizagapatam.
7	6	1	0	0	0	1	6	9	N 45° W		4·3			57		84		·924		4·5		10	+2·2	6·97	8·93	−1·96	28·14	32·25	−4·11	1·58	Calingapatam.
0	6	1	0	0	5	6	2	10	N 70° W	N 61° W	4·3	6·8	−2·5	46	+ 5	86	+ 1	·881	+·006	5·2	+1·4	8	−1·8	4·92	7·86	−2·94	30·67	30·59	+0·08	1·35	Gopalpur.
																															Bay Islands.
3	0	0	2	1	4	12	0	2	S 47° W					60		86		·893		6·5		10		7·33	4·80	+2·53	33·60	29·47	+4·13	2·00	P. V. Fraser.
0	0	0	1	0	3	14	11	4	S 69° W	S 61° W	7·7†	6·9	+0·8	72	+ 6	85	— 5	·834	−·031	7·0	−0·9	15	- 5·4	11·91	13·35	−6·42	94·48	43·09	+10·79	2·95	Port Blair.
1	0	0	0	0	4	19	6	0	S 48° W		15·5			82		86	— 4	·894	−·015	7·9	−0·6	11	−5·4	5·90	11·93	−6·03	56·62	62·65	−5·43	2·02	Table Island.
																															Kashmir.
18	0	0	1	0	9	2	0	0	S 2° W		1·3			26		64		·493		3·6		7		3·70	2·64	+1·06	16·70	28·90	−12·20	1·27	Muzaffarabad.
14	1	1	0	3	6	0	3	2	S 18° W	S 43° E	2·6	2·4	+0·2	10	− 5	73	+13	·397	−·065	2·9	−0·6	2	−1·8	0·36	1·67	−1·31	5·18	10·39	−5·21	0·15	Srinagar.
23	0	3	2	2	0	0	0	0	N 82° E		3·0			17		74	+ 5	·302	−·039	3·9	+1·0	9	+3·4	2·00	2·35	−0·35	13·25§	15·10‖	−1·51	0·32	Gulmarg.
29	0	0	0	0	0	0	0	1	N 45° W		6·1			3		63	0	·209	−·035	2·8	0	0	−2·1	0·17	1·05	−0·88	0·59	5·52	−4·93	0·09	Dras.
17	0	1	0	2	9	0	0	0	S 12° E	N 85° W	3·1‡	1·4	+1·7	33	−17	44	— 6	·167	−·026	4·0	+0·6	0	−0·7	0·06	0·25	−0·19	0·33	1·61	−1·28	0·04	Leh.
19	0	2	2	0	1	3	3	0	S 45° W		3·4			10		55	— 6	·261	−·055	3·6	+0·1	1	−0·5	0·15	0·85	−0·70	0·69	3·21	−2·56	0·14	Skardu.
29	0	0	0	0	0	0	0	1	N 45° W		0·2			3		65	+16	·463	+·082	3·1	−0·3	2	+0·8	0·37	0·34	+0·03	1·04	2·54	−1·50	0·11	Gilgit.
																															Baluchistan.
23	0	1	0	0	1	2	2	0	S 57° W		2·8			10		42		·376		0·5		1		0·77	0·11	+0·66	3·30	4·81	−1·51	0·70	Fort Sandeman.
27	1	1	0	0	1	0	0	0	N 45 E	S 45° W	1·4	1·6	−0·2	3	+ 1	53	+ 6	·258	−·049	0·6	+0·3	1	+0·8	0·10	0·07	+0·03	0·30	1·68	−1·38	0·10	Quetta.
6	0	1	8	10	4	1	0	0	S 54° E	S 8° E	3·6	5·7	−2·1	59	+21	32	+ 2	·219	−·022	0·4	+0·2	0	0	0	0	0	0	0·25	−0·25	0	Chaman.
30	0	0	0	0	0	0	0	0	Calm.	S 11° W	4·3			(a)		63	+23	·212	−·018	0		0	0	0	0·02	−0·02	0·09	1·38	−1·29	0	Kalat.
15	0	3	0	0	0	8	4	0	S 65° W		5·0			23		31		·198		0		0		0	0	0	0	0·23	−0·23	0	Dalbandin.
6	0	1	0	1	5	5	10	2	S 62° W		6·5			46		84		·733		6·3		0		0	0·01	−0·01	0·04	1·76	−1·72	0	Pasni.
3	0	10	9	3	0	1	0	4	N 64° E		3·8			53		35		·229		0·3		0		0			0·35			0	Panjgur.
4	0	0	0	0	0	14	12	0	S 66° W		4·2			79		24		·191		0·1		0		0	0	0	0	0·04	−0·04	0	Robat.
5	1	0	0	0	0	0	0	24	N 41° W		10·6			79		41		·302		0·1		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm.		0·7			(a)		47	+ 4	·320	−·051	1·2	−2·2	5	+0·9	1·39	2·00	−0·61	8·21	13·61	−5·40	0·47	Parachinar.
22	6	0	0	1	1	0	0	0	N 9° E	S 32° W	3·6	5·8	−2·2	13	+ 8	47	−13	·398	−·074	0·8	−1·3	4	+1·1	1·69	2·23	−0·54	9·06	12·91	−3·85	0·59	Cherat.
29	0	0	1	0	0	0	0	0	E		3·3			3		54	+ 2	·363	−·016	2·2	+0·6	0	−2·3	0·09	0·66	−0·57	2·00	4·65	−2·65	0·04	Drosh.
12	9	1	1	4	0	0		3	N 15° E	N 37° W	3·2	4·2	−1·0	30	+11	58	− 8	·324	−·067	2·9	+0·2	8	+1·0	4·08	5·65	−1·57	25·21	38·20	−12·99	1·46	Murree

† hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 24 days.
† „ 27 „
‡ „ 28 „
§ Since 16th May 1918.
‖ „ 1st June 1918.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
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 —*concld.*																					
	Simla	7,232	23·101	+·009	23·063	23·153	14th	23·023	5th	59·7	53·2	66·2	+0·1	56·5	−0·1	61·4	0	9·7	68·9	6th	53·8	26th
	Chakrata	7,072	23·342	−·023	23·302	23·396	25th	23·270	5th	64·6	59·0	72·8	+4·0	57·6	+0·5	65·2	+2·3	15·2	82·1	25th	52·5	30th
	Mukteswar	7,592	22·844	+·004	22·803	22·898	25th	22·774	5th	60·2	53·7	70·0	+0·9	53·9	−1·5	61·9	−0·3	16·1	73·5	19th	52·2	21st
	Darjiling	7,432	22·953	−·015	22·908	23·016	25th	22·907	5th	59·8	58·7	67·0	+2·1	56·7	+1·6	61·9	+1·5	10·3	71·2	25th	53·7	22nd
	Shillong	4,920	25·103	+·023	25·055	25·155	14th	25·043	6th	68·0	64·5	74·1	−0·8	62·3	+0·3	68·2	−0·3	11·8	77·8	3rd & 27th.	56·5	23rd
	Cherrapunji	4,309	25·648	+·003	25·599	25·706	13th	25·575	1st	67·6	65·7	72·3	−1·5	63·9	−0·8	68·1	−1·1	8·4	79·6	27th	57·2	17th
	Netarhat		26·087		26·036	26·107	30th	26·049	1st	72·7	66·8	79·9		P		P		P	83·2	20th	P	P
	Maymyo	3,546	26·382	+·002	26·327	26·441	13th	26·325	1st	70·7	68·6	77·0	−0·3	66·9	+2·5	72·0	+1·1	10·1	82·4	26th	63·8	13th
	Pachmarhi	3,528	26·408	+·040	26·355	26·475	14th	26·290	5th	69·6	65·2	79·5	+2·3	65·5	−0·8	72·5	+0·7	14·0	85·5	30th	61·1	23rd & 28th.
	Mount Abu	3,945	26·017	+·034	25·967	26·077	25th	25·879	1st	67·9	61·9	73·3	−1·8	63·5	−1·1	68·4	−1·5	9·8	80·8	27th	60·9	9th
	Mercara	3,721	26·236	+·026	26·169	26·297	18th	26·191	5th	64·0	63·1	72·7	+0·9	60·2	−1·6	66·4	−0·3	12·5	78·0	30th	57·9	21st
	Ootacamund	*7,327*	23·075	+·045	23·011	23·134	18th	23·028	5th	53·4	53·1	66·6	+3·0	49·0	−2·1	57·8	+0·5	17·6	70·5	7th & 30th.	43·5	8th
	Kodaikanal	7,688	22·843	+·030	22·778	22·898	18th	22·808	4th	57·9	53·0	65·3	+2·2	51·1	−1·1	58·2	+0·5	14·2	69·2	27th	49·	22nd
	Extra India.																					
	Singapore (*a*)	10	29·893	−·052	29·824	29·956	28th	29·828	6th	83·3		87·8	−0·1	74·4	+0·4	81·1	+0·1	13·4	90·0	6th & 6th.	72·0	16th, 17th & 19th.
	Penang (*a*)	17	29·828	−·082	29·770	29·878	14th & 16th.	29·738	7th	81·9		88·8	+0·4	73·2	−0·9	81·0	−0·3	15·6	91·0	5th, 9th & 17th.	69·0	28th
	Trincomalee	99	29·796	+·022	29·824	29·885	18th	29·744	4th	79·3	73·9	96·0	+5·5?	77·1	+0·5	86·6	+3·0?	18·9	99·1	1st	75·1	15th
	Colombo	24	29·955	+·037	29·905	30·027	18th	29·919	1st	78·3	74·8	86·7	+0·4	76·7	−0·4	81·8	0	10·0	88·1	18th & 19th.	72·8	18th
	Hambantota	64	29·886		29·876	29·963	18th	29·843	1st	77·0	74·5	87·3		75·9		81·6		11·4	92·2	1st	73·4	23rd
	Minicoy	7	29·990			30·046	18th	29·915	6th													
	Amini Divi	*13*	29·956	+·027	29·897	30·019	18th	29·894	5th	82·7	76·9	88·1	+2·8	78·0	+0·9	83·1	+1·9	10·1	92·2	18th	73·1	20th
	Gangtok	5,667	24·426	−·019	24·381	24·488	3rd	24·353	29th	65·5	63·9	74·1	+0·2	61·2	+7·6	67·6	+3·9	12·9	78·7	2nd	58·2	30th
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·540	−·090		25·720	8th	25·330	5th	65·0	57·2	85·2	+2·1	56·3	−1·0	70·7	+0·5	28·9	93·5	1st	47·2	30th
	Kabul (*c*)	...	24·108	−·127		24·170	19th & 25th.	24·020	1st	63·9	57·5	91·3	+2·7	61·1	+9·6	76·2	+6·1	30·2	99·6	2nd	55·0	22nd
	Meshed	3,104																				
	Jask	13	29·783	+·035	29·738	29·878	25th	29·633	1st	83·8	78·7	94·7	+1·7	80·7	−0·4	87·7	+0·7	14·0	101·0	26th	77·2	18th & 24th.
	Muscat	20	29·788	+·040	29·756	29·858	18th	29·644	1st	84·5	78·4	90·4	+1·3	80·9	−2·2	85·7	−0·5	9·5	96·9	22nd	76·8	26th
	Bushire	14	29·757	+·030	29·733	29·859	25th	29·594	1st	85·6	77·8	93·2	−0·8	78·4	−0·8	85·8	−0·9	14·8	95·7	25th	74·1	25th
	Busrah	25	29·767	+·017	29·761	29·906	28th	29·621	1st	84·0	68·6	105·4	+5·9	72·9	−2·0	89·2	+1·9	32·5	110·1	14th	68·6	11th
	Ispahan (*c*)	*5,817*	24·328	−·052		24·520	28th	24·180	5th	63·1	52·0	87·8	−2·0	56·9	+1·0	72·9	−0·5	30·9	92·4	3rd, 4th & 6th.	50·2	28th, 29th & 30th.
	Tehran (*c*)	*4,002*	25·786	−·084		25·980	28th	25·640	4th & 5th.	72·3	50·4	88·1	−2·6	65·1	+1·9	76·6	−0·3	23·0	95·5	6th	56·0	28th
	Baghdad	127	29·666	+·005	29·759	29·813	28th	29·548	1st	78·2	60·3	106·2	+2·9	75·6	+3·1	90·9	+3·0	30·6	113·8	17th	65·6	30th
	Aden	94	29·779	+·041	29·805	29·869	18th	29·651	6th	82·8	78·7	91·7	−1·8	80·7	−1·9	86·2	−1·9	11·0	97·0	10th	77·3	27th & 28th.
	Zanzibar	72	30·121	+·052	30·120	30·209	3rd	30·075	28th	75·5	71·6	81·8	−0·5	72·7	−0·9	77·2	−0·7	9·1	84·9	23rd	70·9	1st

N.B.—Elevations in italics indicate barometrical determinations.

(*a*) 9 hrs. observations.
(*c*) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*concluded.*

stations in India, etc., in September, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																66	−11	·341	−·057	2·1	−2·1	5	−3·3	1·87	6·04	−4·17	48·06	49·88	−1·82	1·20	Simla.
9	0	7	2	2	0	9	1	0	S 20° E	N 21° E	6·7	4·4	+2·3	10	− 3	73	−11	·443	−·013	3·3	−0·4	2	−5·7	1·58	6·78	−5·20	31·11	56·48	−25·37	1·15	Chakrata.
9	0	2	4	0	0	0	15	0	N 81° W		6·1			33		67	−16	·348	−·084	3·5	−1·8	5	−3·6	1·28	7·49	− 6·21	20·51	41·18	−20·67	0·34	Mukteswar.
21	2	3	2	0	1	0	1	0	N 45° E	S 89° E	1·4	2·7	−1·3	13	− 6	94	0	·483	+·005	9·3	+1·2	20	+3·0	15·87	18·19	−2·32	117·69	112·46	+ 5·43	4·66	Darjiling.
27	0	0	0	1	2	0	0	0	S 13° E		1·3			10		83	− 2	·567	−·007	7·5	+1·1	19	+0·2	11·61	10·48	+1·13	83·91	68·85	+15·06	1·69	Shillong.
1	1	4	8	3	6	3	2	2	S 52° E		4·1			27		90	− 1	·611	−·009	8·	+1·6	19	−0·1	43·19	34·94	+ 8·25	483·25	357·34	+126·01	6·60	Cherrapunji.
0	3	1	3	0	0	0	4	19	N 39° W		3·0			70		75		·593		3·6		11		6·82			55·78			1·35	Netarhat.
11	0	0	1	0	3	11	4	0	S 45° W		1·2			49		90	0	·676	−·003	5·2	−1·4	15	−0·5	5·92	11·16	−5·24	37·75	45·59	− 7·84	1·05	Maymyo.
3	1	0	0	0	0	1	10	15	N 63° W	N 85° W	4·2	4·5	−0·3	76	+32	80	− 4	·573	−·053	4·6	−2·4	4	−9·4	4·51	14·08	−9·57	45·37	70·62	−25·25	1·80	Pachmarhi.
2	0	0	0	1	6	19	2	0	S 34° W	S 70° W	5·5	5·8	−0·3	82	+38	73	− 6	·490	−·056	3·0	−2·1	5	−2·5	2·93	8·55	−5·59	36·16	56·25	−20·09	1·57	Mount Abu.
4	1	0	0	0	1	5	12	7	N 86° W	N 67° W	3·5	5·3	−1·8	66	− 8	95	+ 2	·562	−·015	6·0	−2·5	12	−6·2	4·59	10·56	−5·97	66·95	110·48	−43·53	0·79	Mercara.
13	0	0	1	3	2	1	7	3	S 67° W		3·0			23		72	−11	·350	−·034	6·9	−0·2	4	−7·5	2·52	5·77	−3·25	23·01	35·07	−12·03	0·91	Ootacamund.
1	1	0	2	7	1	2	8	8	S 85° W		6·0			27		74	− 4	·351	−·020	4·3	−1·4	4	−8·4	1·94	6·73	−4·79	21·57	28·50	− 6·93	0·76	Kodaikanal.
																															Extra India.
7	0	0	2	7	3	11	0	0	S 3° W					53						7·7	+1·8	11	+1·3	9·48	5·70	+3·78	39·92	31·95	+ 7·97	2·74	Singapore.
0	2	15	0	6	2	0	0	5	N 49° E					49								10	−3·4	9·18	14·45	−5·32	34·60	48·77	−14·17	2·40	Penang.
0	0	0	0	0	0	20	10	0	S 60° W	S 43° W	5·4	9·3	−3·9	89	− 5	77	− 4	·767		4·9	+2·0	5	−0·8	2·35	4·65	−2·30	6·01	11·56	− 5·57	1·35	Trincomalee.
10	0	0	0	0	0	12	8	0	S 63° W	S 57° W	4·0	6·7	−2·7	59	−22	84	+ 2	·810		8·0	+1·7	3	−5·1	0·84	4·57	−3·73	24·17	31·89	− 7·72	0·41	Colombo.
0	0	0	9	0	0	9	21	0	S 77° W		10·9			92		86		·819	−·081	4·2		2		0·85			10·64			0·45	Hambantota.
0	1	0	0	0	0	0	11	18	N 60° W	N 75° W	5·8	8·5	−2·7	90	+10				−·055	2·7	−2·5	4	−6·5	1·08	6·15	−5·07	38·48	38·83	− 0·35	0·52	Minicoy.
0	2	1	1	0	0	0	14	12	N 62° W		10·1			77		76	− 5	·846	−·021	5·1	−1·2	5	−6·0	1·25	5·77	−4·52	36·93	42·27	− 5·34	0·30	Amini Divi.
28	0	3	0	0	1	0	0	0	N 63° E		0·5			7		92	+ 1	·576	+·017	5·1	−0·1	22	+0·4	18·94	17·95	+0·99	110·39	106·63	+ 3·76	2·27	Gangtok.[1]
																									0·26			2·53			Gartok.
1	1	3	0	1	1	2	0	1	N 45° E	N 29° W	0·9*	2·2	−1·3	3	− 8	64	+10	·387	+·053	3·1	+0·7	0	−0·7	0	0·28	−0·28	0·51	2·08	− 1·57	0	Kashgar.
0	7	6	0	0	0	7	9	1	N 55° W	S 13° W				40	+31	69	+17	·419	+·082	2·3	+2·1	0	−0·1	0	0·03	−0·03	0·48	1·29	− 0·81	0	Kabul.
																									0·01						Meshed.
5	3	1	18	1	1	0	0	1	N 82° E	S 81° E	6·8	9·8	−3·0	62	− 1	79	+ 5	·916	+·001	3·2	+1·7	0	0	0	0	0	0	0·08	− 0·08	0	Jask.
4	0	3	8	2	0	1	0	2	N 81° E	N 72° E	2·2	2·8	−0·6	30	+ 1	76	+ 1	·892	−·018	0·3	−0·8	0	0	0	0	0	0	0·17	− 0·17	0	Muscat.
7	1	7	7	3	0	0	1	4	N 57° E	N 60° E	5·0	5·0	0	40	−12	70	+ 3	·855	+·007	0·1	−0·5	0	0	0	0	0	0·05	0·03	+ 0·02	0	Bushire.
3	2	0	0	2	0	7	13	3	S 84° W		4·7			63		43		·497		0·9		0	−0·3	0	0·12	−0·12	0	0·45	− 0·45	0	Busrah.
3	0	0	1	0	0	0	0	0	E	N 72° W	1·2	2·5	−1·3	3	−31	48	− 4	·278	−·098	0·7	+0·3	0	−0·1	0	0·04	−0·04	0·16	0·32	− 0·16	0	Ispahan.
5	3	10	1	1	0	0	0	0	N 45° E	N 62° E	3·7	2·0	+1·7	43	+31	45	+ 2	·359	+·010	2·9	+2·3	0	−0·3	0	0·06	−0·06	0·43	0·84	− 0·41	0	Tehran.
2	9	5	0	0	0	2	1	11	N 20° W	N 11° W	5·3	1·8	+3·5	69	+17	30	−14	·287	−·176	1·0	+0·5	0	0	0	0	0	0·18	0·25	− 0·07	0	Baghdad.
4	5	11	1	2	0	1	0	1	N 37° E	S 56° E	8·6	7·0	+1·6	46	+16	83	+ 8	·920	−·022	2·5	−1·4	0	−0·2	0	0·15	−0·15	0·07	0·48	− 0·41	0	Aden.
1	0	0	0	6	11	7	1	0	S 6° W	S 5° E	3·5	4·1	−0·6	67	−19	81	− 2	·716	−·033	6·6	+0·5	3	−2·4	0·76	2·19	−1·43	22·15	19·08	+ 3·07	0·27	Zanzibar.

[1] hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 28 days.

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in September, 1918.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	78·8	76·7	89·8	+0·1	74·9	+1·6	82·3	+0·9	14·9	94·5	26th	68·1	18th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·3	77·2	91·8	+1·6	73·5	—1·6	82·7	0	18·3	96·2	6th	71·6	29th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	78·8	78·1	93·4	+3·1	73·2	—1·8	83·3	+0·7	20·2	99·1	26th	70·1	20th & 21st.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·4	76·3	91·1	+1·5	74·7	+0·4	82·9	+0·9	16·4	98·3	27th	72·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	79·4	76·7	87·8	—1·2	71·7	—0·5	81·3	—0·9	13·1	94·8	26th & 27th.	70·2	14th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	78·6	77·3	87·9	+0·1	73·5	...	80·7	...	14·4	92·9	1st & 27th	70·2	11th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·0	77·3	89·4	—0·7	72·3	+3·5	84·3	+1·4	10·1	94·2	27th	73·4	4th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	79·1	77·1	88·7	—0·8	75·4	—0·6	82·1	—0·7	13·3	93·7	27th	71·2	11th	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	80·3	77·3	90·1	...	74·9	...	82·5	...	15·2	92·7	9th	71·8	18th	...	...	...	...	...	...	...	...	...	...	...
	Mossa	84·4	80·0	92·7	—0·7	74·3	—0·4	83·5	—0·5	18·4	98·5	26th	71·0	2nd	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	76·4	74·6	89·5	+0·7	71·9	—1·8	80·7	—0·5	17·6	94·7	27th	69·1	2nd	...	...	..	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	82·4	78·2	89·1	—0·3	75·7	—2·0	82·4	—1·1	13·4	92·0	10th	72·3	17th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	85·5	80·9	89·2	—0·1	78·8	+1·2	84·0	+0·5	10·4	94·5	23rd	74·7	12th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	84·1	80·3	90·3	—3·5	77·8	+1·5	84·1	—1·0	12·5	94·7	23rd	73·9	13th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Dam Dim	78·8	76·8	91·4	—0·4	73·4	—0·2	82·4	—0·2	18·0	95·9	2nd	69·0	25th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	83·4	78·9	90·5	+1·0	72·3	—1·5	81·4	—0·3	18·2	94·1	27th	67·0	23rd	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	82·5	77·0	89·9	—0·2	73·1	—0·7	81·5	—0·5	16·8	93·0	27th	69·0	21st	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

*Mean of 29 days.

C.

and fifth class stations in India, etc., in September, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	91	— 4	·892	—·036	...	...	17	+1·8	19·08	10·84	+ 8·24	118·86	75·19	+43·67	2·50	Bishnath.
...	...	...	...	...	87	— 4	·893	—·027	...	...	23	+8·7	26·53	10·45	+10·08	98·20	69·90	+28·30	3·72	Borjuli.
...	...	...	...	...	97	+ 7	·955	+·017	...	...	21	+4·4	17·86	9·67	+ 8·19	101·53	83·82	+17·71	3·45	Chandkhira.
...	...	...	...	...	91	— 1	·877	—·015	...	...	13	−0·8	13·42	10·77	+ 2·65	78·26	73·50	+ 4·76	4·40	Doom Dooma.
...	...	...	...	...	88	— 3	·883	—·016	...	...	14	−0·8	13·74	11·41	+ 2·33	84·00	78·59	+ 5·41	2·38	Dikom.
...	...	...	...	...	94	+ 3	·918	—·007	...	...	16	+2·2	10·70	7·49	+ 3·21	69·26	52·06	+17·20	3·24	Golaghat.
...	...	...	...	...	88	— 3	·899	0	...	...	17	+2·2	17·83	11·87	+ 5·96	113·22	91·12	+22·10	3·15	Hailakandi.
...	...	...	...	...	91	+ 1	·914	— ·017	...	...	16	+2·7	12·05	9·88	+ 2·17	79·31	62·38	+16·93	3·97	Jorehat.
...	...	...	...	...	87	...	·889	...	...	...	9	−0·5	8·13	6·34	+ 1·76	45·26	36·67	+ 8·59	2·75	Lumding.
...	...	...	...	...	82	— 4	·965	+·018	...	...	19	+5·0	15·88	9·07	+ 6·84	83·26	65·92	+17·34	3·53	Messa.
...	...	...	...	...	92	— 3	·832	—·003	...	...	15	+2·7	13·65	9·00	+ 4·65	108·42	64·25	+44·18	3·22	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	14	+0·7	11·06	10·49	+ 0·57	80·89	72·25	+ 8·64	3·51	Comilla.
...	...	...	...	...	82	— 4	·906	—·057	...	...	12	−2·3	7·99	9·38	− 1·39	65·65	66·20	− 0·55	1·77	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	14	+1·9	9·32	8·83	+ 0·49	75·87	56·23	+19·64	2·24	Faridpur.
...	...	...	...	...	81	— 3	·990	+·037	...	...	12	−0·2	8·82	8·08	+ 0·74	65·65	52·21	+13·44	3·56	Goalundo.
...	...	...	...	...	84	0	·982	+·016	...	...	7	−4·5	4·19	7·81	— 3·62	42·85	48·96	− 6·11	1·50	Pabna.
...	...	...	...	...	...	...	...	...	...	...	8	−3·7	10·57	9·45	+ 1·12	66·13	53·15	+12·98	2·91	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	9	−3·1	7·86	9·86	— 2·00	66·06	47·24	+18·82	2·53	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	8	−2·2	9·24	9·55	− 0·31	83·69	45·40	+38·29	4·05	Malda.
...	...	...	...	...	...	...	...	...	...	...	10	−3·4	5·49	13·97	— 8·48	107·65	70·73	+36·92	0·96	Rangpur.
...	...	...	...	...	91	— 3	·895	—·022	...	...	19	+0·3	29·75	22·03	+ 7·72	141·46	138·16	+3·30	6·18	Dam Dim.
...	...	...	...	...	80	— 6	·933	—·012	...	...	15	−0·5	18·12	19·52	− 1·40	146·50	129·17	+17·33	3·50	Kalchini.
...	...	...	...	...	78	— 8	·851	—·033	...	...	19	−0·5	18·89	22·16	— 3·27	133·83	137·32	— 3·49	2·80	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	16	+0·7	9·99	25·84	−15·85	138·58	127·55	+11·03	1·82	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	12	+1·2	4·76	8·09	— 3·33	53·23	47·07	+ 6·19	0·85	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	10	−1·7	4·86	8·71	− 3·85	42·75	47·76	− 5·01	1·05	Bankura.
...	...	...	...	...	...	...	...	...	...	...	7	−4·6	3·68	8·05	— 4·37	35·51	45·41	— 9·90	1·46	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	6	−5·9	7·70	9·10	— 1·40	42·55	45·82	− 3·27	3·80	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	6	−3·6	8·46	9·03	− 0·57	47·80	44·17	+ 3·63	4·15	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	8	−0·7	9·90	7·22	+ 2·68	52·03	44·45	+ 7·58	4·70	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	8	−0·9	10·04	9·23	+ 0·81	54·02	50·16	+ 3·86	4·22	Motihari.
...	...	...	...	...	...	...	...	...	...	...	8	−0·6	17·15	6·85	+10·30	54·83	37·70	+17·13	9·12	Chapra.
...	...	...	...	...	...	...	...	...	...	...	8	−1·0	9·79	7·66	+ 2·04	36·72	39·77	− 3·05	5·93	Arrah.
...	...	...	...	...	...	...	...	...	...	...	8	−0·9	10·30	6·74	+ 3·56	44·77	37·07	+ 7·70	3·34	Dehri.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of sub-division.	Station.	Temperature of Air.													Wind Direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	XII.—Central Provinces.																								
23	Chhindwara	76·4	68·9	86·9	...	68·1	...	77·5	...	18·8	94·0	30th	61·9	24th	21	3	0	0	0	0	0	1	5	N 36° W	
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	..	...	
32	Anantapur	77·8	74·7	92·8	...	73·5	...	83·2	...	19·3	98·8	13th & 14th.	68·4	17th	...	...	...	...	..	..	...	...	...	...	
33	Guntur	82·6	76·8	94·9	...	76·7	...	85·8	...	18·2	102·2	9th	72·8	22rd	...	...	...	...	...	..	...	...	...	...	
	Koraput	72·0	70·1	80·7	...	67·6	...	74·1	...	13·1	83·8	16th	63·8	30th	...	...	...	...	...	...	...	...	...	...	
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kashmir.																								
13	Jammu	80·8	71·9	92·7	...	74·6	...	83·7	...	18·1	96·7	10th	69·7	24th	0	14	13	0	0	0	2	1	0	N 18° E	
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kargil	60·0	48·0	77·7	...	40·8	...	59·3	...	36·9	69·3	1st	32·1	30th	11	10	0	0	0	0	0	0	9	N 21° W	
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Hill stations, exclusive of Kashmir.																								
	Panighatta	75·7	73·7	87·9	0	71·8	−1·1	79·9	−0·5	16·1	93·3	3rd	69·0	21st	...	...	...	...	...	...	...	...	...	...	
	Kurseong	68·7	68·1	73·9	+0·2	63·8	−0·4	68·9	−0·1	10·1	76·8	28th	61·8	19th	...	...	...	...	...	...	...	...	...	...	
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Poo	...	...	76·6	+2·9	52·3	+0·4	64·5	+1·7	24·3	82·1	4th	42·8	29th	11	0	0	0	5	7	7	0	0	S 4° W	
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Pishin	...	...	84·0	−4·9	45·5	−1·9	64·8	−3·3	38·5	89·4	2nd	39·0	26th	...	...	...	...	...	..	...	...	...	...	

C—*continued.*

and fifth class stations in India, etc., in September, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	..	...	...	...	...	...	...	...	...	0	− 5·6	0·09	6·1	− 6·05	11·11	27·71	− 16·60	0·09	Meerut.
...	...	...	...	...	...	...	...	...	...	...	5	− 5·3	3·45	9·15	− 5·00	41·31	74·72	−33·41	1·57	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	− 5·3	0·05	3·88	− 3·83	13·50	21·54	− 8·04	0·05	Udaipur.
																				XII.—Central Provinces.
1·8	...	...	30	...	68	...	·617	...	4·3	...	3	...	0·83	7·28	− 6·45	27·71	34·66	− 6·95	0·33	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	7	− 2·7	3·35	7·95	− 4·60	19·45	28·67	− 9·22	0·87	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	+ 0·3	1·14	1·24	− 0·10	3·70	4·20	− 0·50	0·96	Tinnevelly.
...	...	...	...	...	86	...	·822	...	7·6	...	10	+ 2·6	7·78	8·29	− 0·51	12·59	18·05	− 5·46	1·55	Anantapur.
...	...	...	...	...	76	...	·846	...	2·1	...	11	+ 1·8	5·10	5·90	− 0·40	17·91	23·28	− 5·37	1·05	Guntur.
...	...	...	...	...	91	...	·709	...	...	...	12	...	4·77	...	...	57·79	...	...	0·91	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	7	−10·3	2·79	12·95	−10·16	37·92*	58·56	−20·64	0·76	Car Nicobar.
																				Kashmir.
...	...	...	77	...	64	...	·683	...	0·9	...	2	− 2·2	1·59	2·43	− 0·84	24·51	29·52	− 5·01	1·32	Jammu.
...	...	...	...	...	...	...	...	...	...	...	8	0	2·12	3·69	− 1·57	10·86	18·79	− 7·93	0·46	Sonamarg.
...	...	...	57	...	41	...	·211	...	3·2	...	2	+ 0·9	0·37	0·15	+ 0·22	0·46	1·70	− 1·24	0·22	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	3	+ 2·0	1·13	0·51	+ 0·62	3·20	6·33	− 3·13	0·54	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	86	+ 3	·791	−·050	...	...	23	+ 4·2	27·63	21·51	+ 6·12	154·46	123·17	+ 31·29	5·46	Panighatta.
...	...	...	...	...	97	+ 8	·679	+·076	...	...	23	+ 3·2	29·36	20·63	+ 8·73	168·36	144·28	+ 24·08	7·54	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	25	...	19·98	14·54	+ 5·44	160·40	131·23	+ 29·17	2·00	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	24	...	8·68	5·62	+ 3·06	48·01	42·03	+ 5·98	0·65	Lachung.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·68	...	...	133·00	...	...	0·62	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	8	− 2·4	3·53	10·15	− 6·62	39·31	82·38	−43·07	1·01	Mussooree.
...	...	...	50	...	...	...	...	...	3·6	+0·2	0	− 1·3	0·02	0·56	− 0·54	0·26	2·96	− 2·70	0·02	Poo.
...	...	...	...	...	...	...	...	...	...	...	1	− 1·7	0·14	2·02	− 1·88	3·42	8·33	− 4·91	0·10	Kailang.
...	...	...	...	...	...	...	...	...	0·3	...	0	0	0	0	0	0	0·44	− 0·44	0	Plshin.

* Rainfall for August wanting.

Table

Abstract of observations taken at 8 hrs. at 60 fourth and

Number of sub-Division.	Station.	Temperature of Air.													Wind direction.									
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																							
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	53·0	52·0	64·3	...	46·5	...	56·4	...	15·8	67·5	3rd	43·4	30th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	93·2	72·2	109·4	...	75·9	...	92·7	...	33·5	116·0	13th & 15th.	74·0	7 days	0	0	0	0	2	6	0	0	20	N 62° W*	...

* 2 Wi de variable.

C—*concluded.*

fifth class stations in India, etc., in September, 1918—*concluded.*

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATIONS.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th September, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	94	...	·380	...	5·6	...	9	...	5·08	2·94	+2·14	31·10	24·80	+6·30	1·67	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	1	−1·7	1·04	1·27	−0·23	18·66	28·54	−9·88	0·92	Pemba.
...	...	...	46	...	39	...	·500	...	...	...	0	...	0	...	...	0·06	...	...	0	Abadan.

SGPI-21-441'GO-13-2-22-325.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

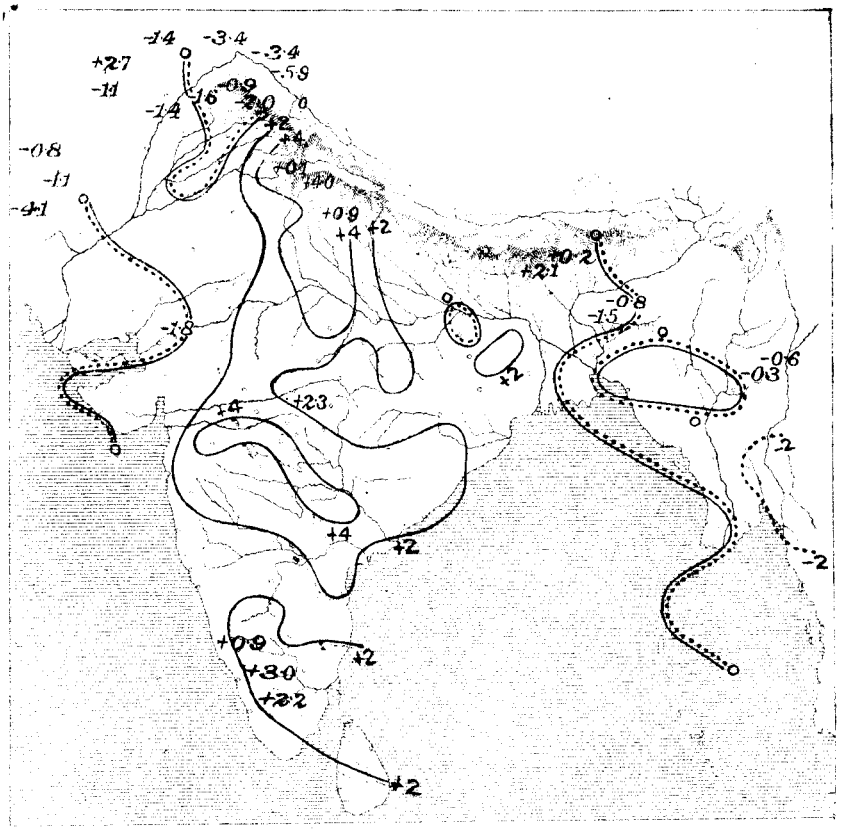


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

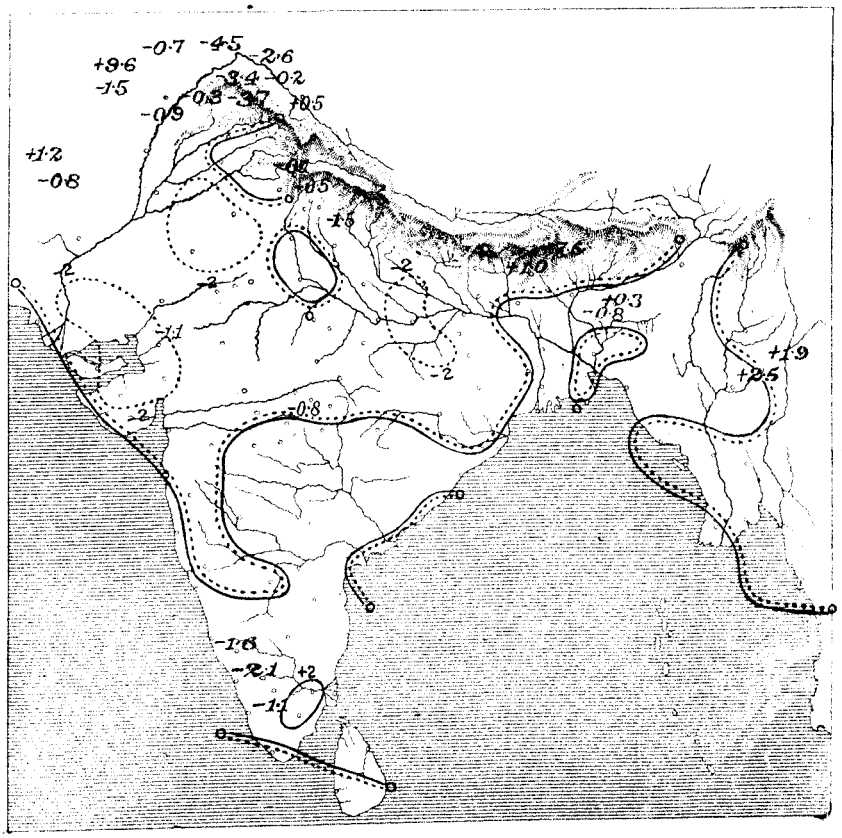


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

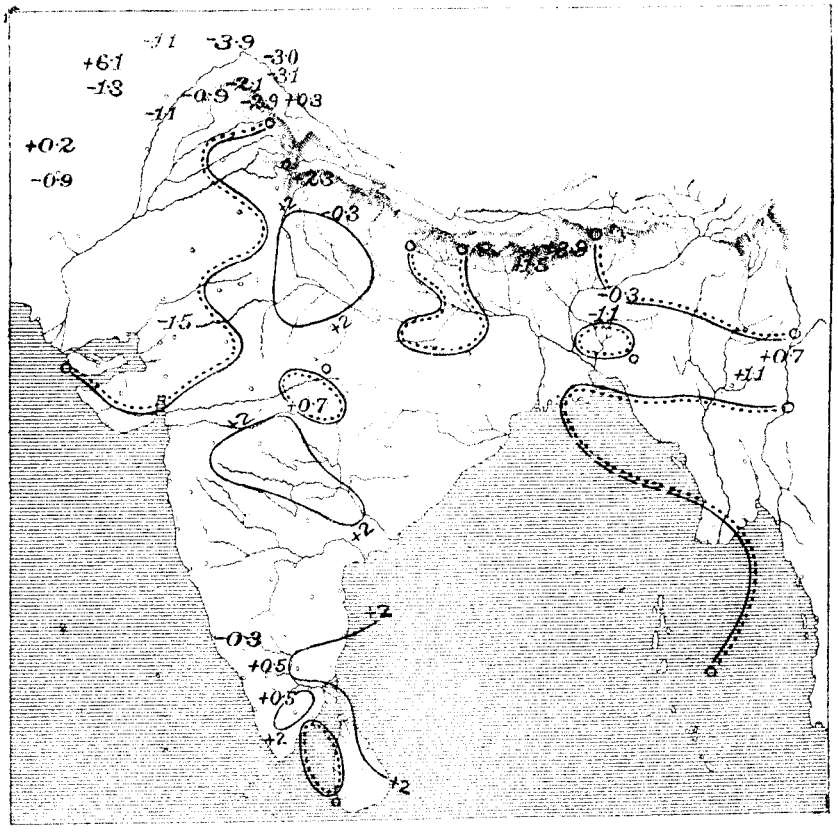


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

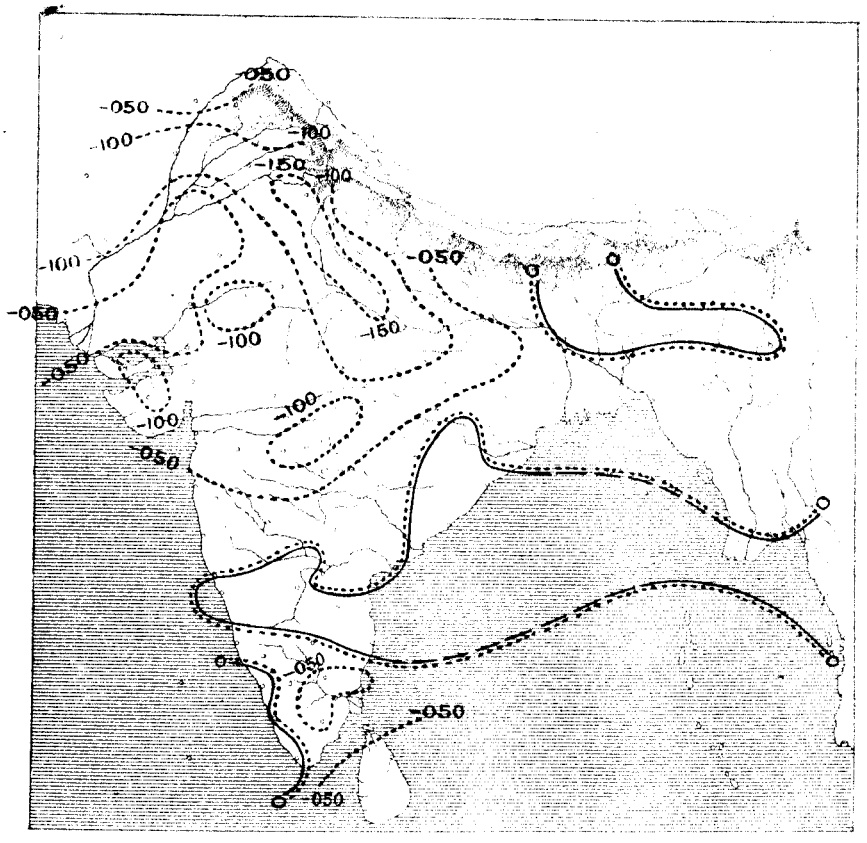


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

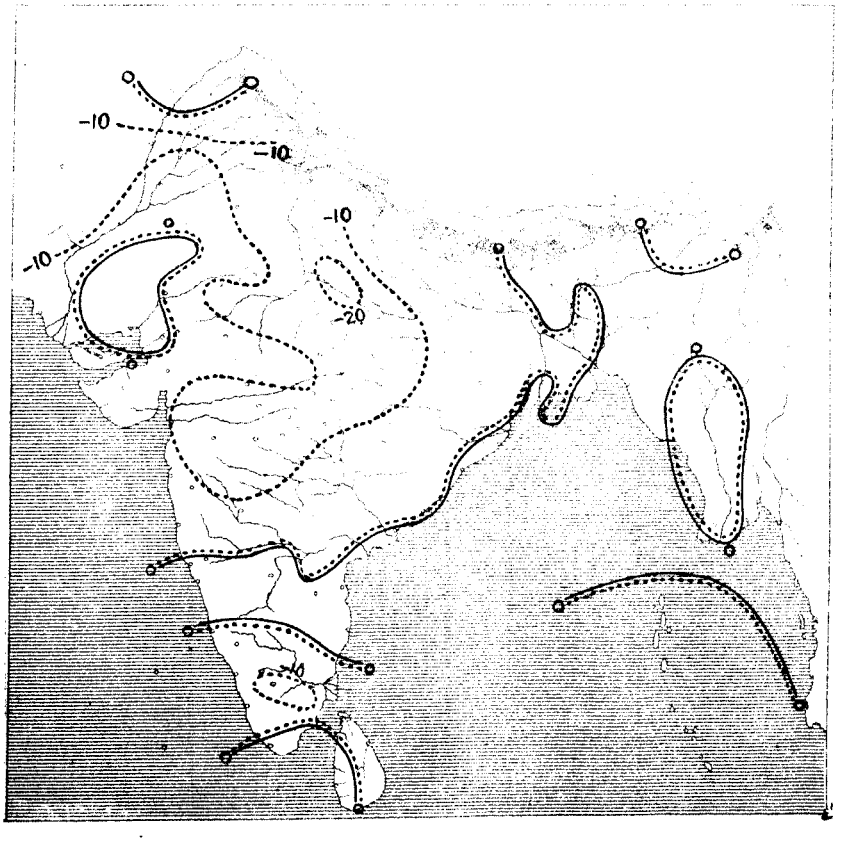


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

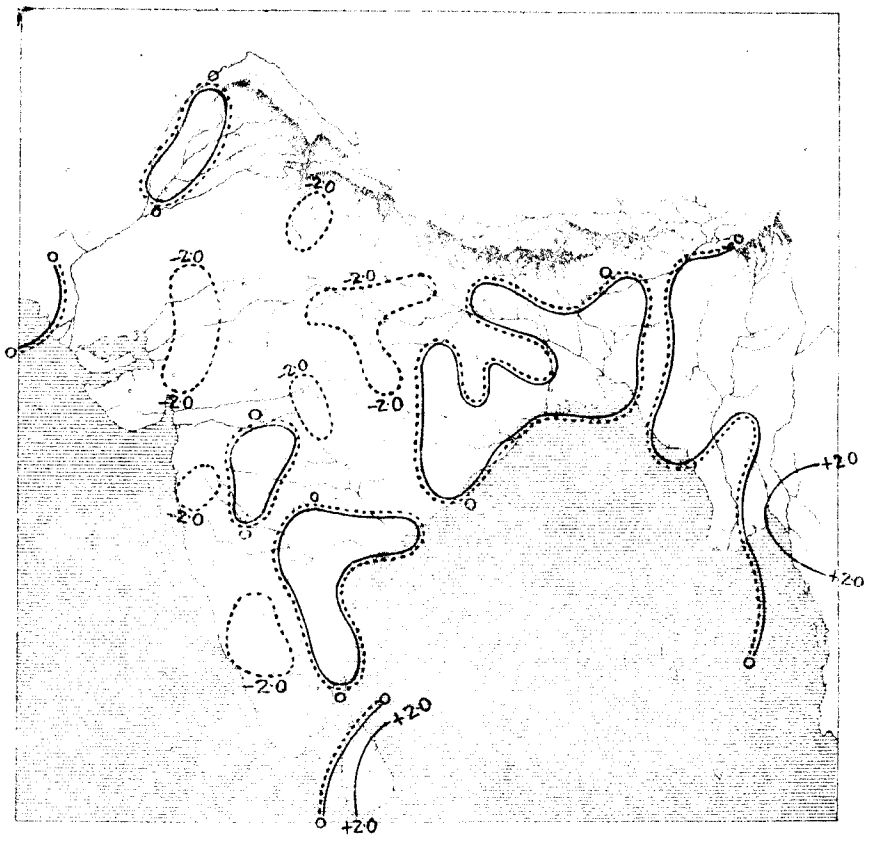
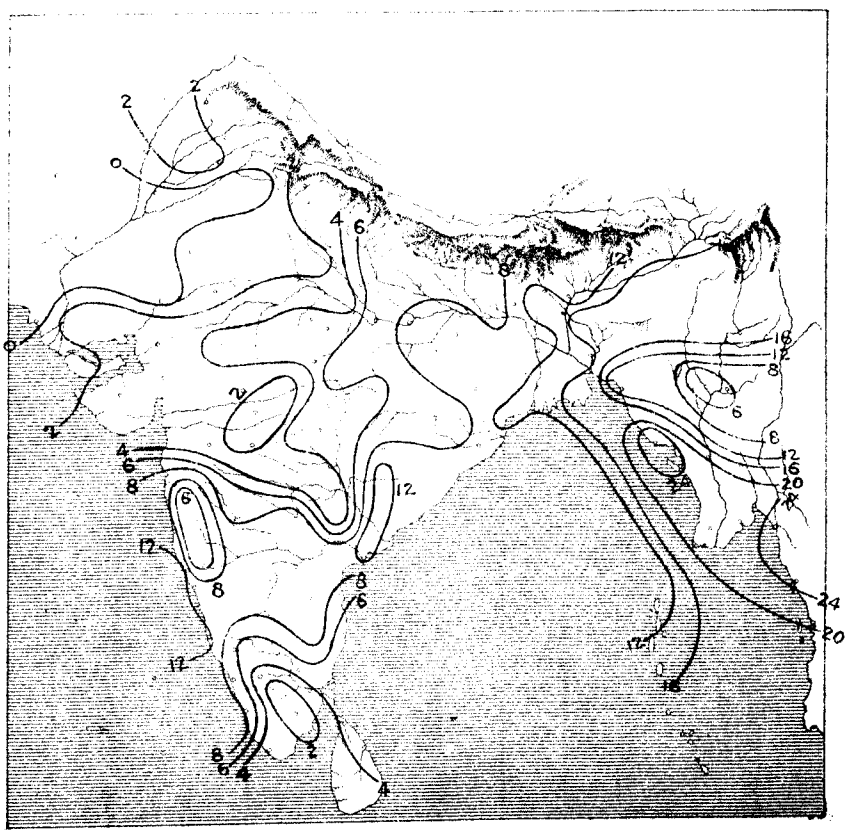
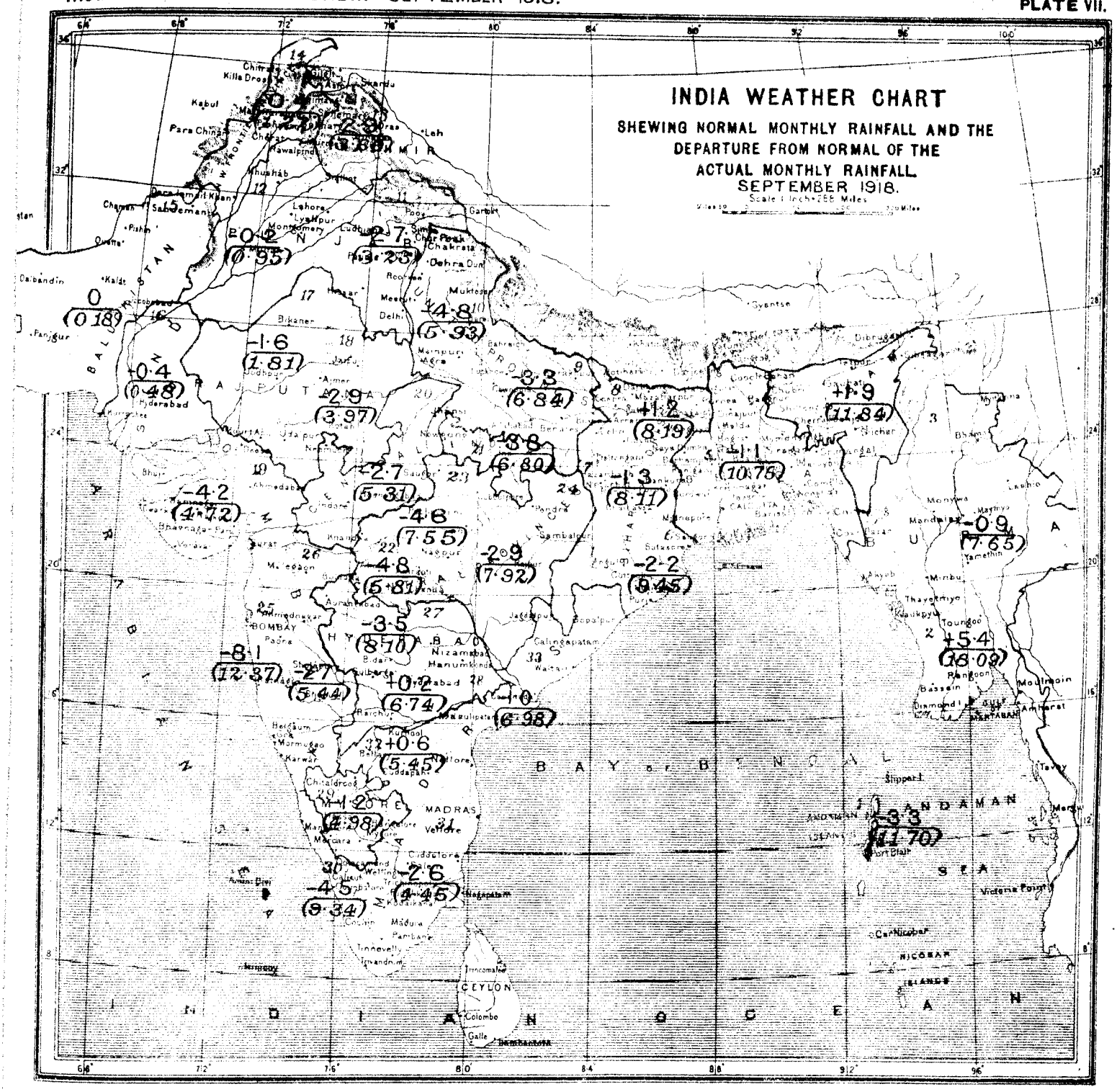


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, OCTOBER, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of October, 1918, is based on observations taken daily at 8 hrs. at 215 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments.

The brief notes on solar, seismic and magnetic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon was exceptionally weak; Burma, Assam and south Madras were the only areas where rain fell fairly frequently and even there the total fall of the month was much below normal. Over the greater part of the remaining area rainfall was very scanty, and, averaged over the plains of India as a whole, the month's fall was as much as 62 per cent. in defect. This is the greatest defect in October since 1897.

Two feeble depressions appeared over the Bay of Bengal; the first passed into south Bengal on the 14th and the second was approaching the south Madras coast at the end of the month.

Skies were much clearer and the air drier than usual. Maximum temperature was mostly above the average.

The mean pressure over the plains of India was 0·040″ in excess.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—Solar observations were not possible on 3 days in the month. The prominence record was complete on twenty days and imperfect on 8 days.

Sunspots.—Thirty-two new groups were recorded during the month with a daily average of 5·8. The average life of a spot was 5·9 days. The latitude distribution of the 32 groups was as follows :—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North	11	6	1	10°·4	2° & 23°
South	6	7	1	12°·4	1° & 23°

Prominences.—Sixty-eight prominences a minute or more in height, 1 eruptive and 2 metallic prominences were recorded in the month. The eruptive prominence was photographed at 32° west on the 7th and reached a maximum height of 360″. It was the tallest prominence for the month.

Magnetic disturbances.—There were "great" disturbances from the 15th to the 17th and "moderate" disturbances from the 1st to the 9th, on the 19th and the 20th.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10°\ 13'\ 50''$; $\lambda = 77°\ 28'\ 00''$; $h = 2{,}343$ m. Subsoil *Rock.*

Apparatus.—Milne's Horizontal Pendulam Seismograph.

TABLE 2.

	V	To	C	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·0	1	2·8
AZ:				

Date.	Phase.	Time G. M. T.	Period. (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Oct. 1st	e P	1 15 54	...	...	...	...	...	
	i L	1 30 12	...	...	...	...	...	
	M	1 30 12	...	...	80	...	...	
	F	2 19 42	...	..	...	...	...	
„ 1st	e P	8 06 18	...	...	...	...	...	Widening of line.
	F	8 09 18	...	...	...	...	...	
„ 9th	e P	9 32 00	...	...	...	...	...	Widening of line.
	F	9 55 06	...	...	...	...	...	
1918.		h. m. s.						
Oct. 11th	e P	14 38 00	...	...	...	...	...	The amplitude was comparatively large, namely, 0·6 m. m. from 14 h. 38·5 m. to 14 h. 40·5 m.
	e L	15 06 42	...	...	...	...	...	
	M	15 42 48	...	...	130	...	...	
	F	16 45 54	...	...	...	...	...	
„ 16th	e P	20 25 54	...	...	..	...	...	Widening of line.
	F	20 43 06	...	...	...	...	...	
„ 25th	e P	5 10 30	...	...	...	...	...	Widening of line.
	F	5 26 42	...	...	...	...	...	
„ 27th	e P	15 49 48	...	...	...	...	...	
	e L	16 24 42	...	...	...	...	...	
	M	16 27 42	...	...	40	...	...	
	F	16 39 00	...	...	...	...	...	
„ 27th	i P	17 37 00	...	...	...	...	...	
	i L	17 41 00	...	...	...	...	...	
	M	18 01 54	...	...	100	...	...	
	F	18 34 42	...	...	...	...	...	

S. SITARAMAYYA,

Officiating Assistant Director.

BOMBAY OBSERVATORY.

Alibagh magnetic record.

4. During the month of October, 1918, the traces showed 10 calm days, 18 days of small, two days of moderate and one day of great disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are 11th, 12th, 13th, 14th and 27th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	S	17	S	25	S
2	S	10	C	18	S	26	C
3	S	11	C	19	S	27	C
4	S	12	C	20	S	28	S
5	S	13	C	21	C	29	C
6	S	14	C	22	S	30	S
7	S	15	S	23	C	31	M
8	M	16	G	24	S		

C=calm ; S=small ; M=moderate ; G=great; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month are as follows :—

Easterly declination	0° 27′ 9″.
Horizontal force	0·36880 C.G.S. unit.
Vertical force	0·17004 C.G.S. „
Inclination	24° 45′·1.
Horizontal force range . . .	0·00065 C.G.S. unit.
„ „ summed range . .	0·00351 C.G.S. „
Declination range	2′·9.
„ summed range . .	11′·0.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of diurnal inequality.)

Seismic records.

$\phi = 18° 53′ 36″$; $\lambda = 72° 48′ 50″$; $h = 11$ m. Subsoil *Trap*.

Apparatus.—Omori Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	G	$\frac{r}{To^2}$
AN :				
AE :	20	32		
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Oct. 1st	P	1 22 25	...	...	...	...	...	
	M	1 26 45	...	...	45	...	...	
„ 11th	P	14 33 54	...	...	...	...	...	
		15 19 46	...	...	300	...	...	
„ 16th	P	20 14 43	...	...	...	...	...	
	M	...	...	...	...	...	...	Maximum not well marked.
„ 27th	P	15 50 44	...	...	...	...	...	
	M	16 17 42	...	...	10	...	...	
„ „	P	17 18 49	...	...	...	...	...	
	M	17 50 25	...	...	60	...	...	

Three more disturbances have been recorded at about :—

14 d. 13 h., 19 d. 4¾ h., and 25 d. 5 h., but the movements are small and it is difficult to locate phases exactly.

N. A. F. MOOS,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 6{\cdot}4$ m. Subsoil *Alluvial.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km).	Remarks.
1918.		h. m. s.						
Oct. 1st	P	1 24 42	3	...	...	...	...	
	S	1 27 42	5	...	...	...	...	
	F	1 47 42	...	...	...	...	...	
„ 9th	P	9 25 54	2	...	...	..	...	
	S	9 32 30	5	...	...	...	...	
	F	9 44 06	...	...	...	...	..	
„ 11th	P	14 36 48	?	...	...	...	...	
	S	14 37 36	5	...	...	...	...	
	F	14 47 12	...	...	...	...	...	
1918.		h. m. s.						
Oct. 27th	P	15 39 18	3	...	...	...	...	
	S	15 49 18	6	...	...	...	...	
	F	16 0 0	...	...	...	...	...	
„ 27th	P	17 17 18	5	...	...	..	...	
	S	17 25 48	7	...	...	...	...	
	F	17 59 48	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6'$ N; $\lambda = 77° 11'$ E; $h = 2{\cdot}1$ km. Subsoil *Rock.*

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
October 1st	e P	1 19 48	...	...	...	...	...	
	M	1 22 48	...	250	64	...	...	
	F	1 43 36	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1918.		h. m. s.						
Oct. 11th	e P	14 34 42	...	...	...	...	...	
	e S	14 51 30	...	...	...	...	...	
	L	15 7 54	40	...	...	...	...	
	M	15 11 12	...	614	...	...	...	
	F	16 28 12	...	...	...	...	...	
„ 27th	e P	17 18 24	...	...	...	...	...	
	S	17 27 48	...	...	...	...	...	
	e L	17 35 30	...	...	...	...	...	
	F	18 3 48	...	...	...	...	...	

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
	1918.	h. m.	sec.			
Kabul (Afghanistan)	Oct. 4th	17 14	3	5	1	
„ „	„ 5th	16 34	10	6	4	
Meshad (Persia) .	„ 7th	7 30	4	4	1	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was above normal, winds were somewhat less easterly than usual and rainfall was greatly in excess at Zanzibar and Seychelles, and at the latter station wind velocity was above the average. At Mauritius, however, conditions did not differ appreciably from the normal.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	+·006	+·028	+·029
Actual mean wind direction . .	S 80 E	S 1 W	S 24 E
Normal mean wind direction . .	S 76 E	S 20 E	S 39 E
Actual mean wind velocity (miles per diem).	178	65	173
Normal mean wind velocity (miles per diem).	194	89	139
Rainfall departure from normal . .	—0·20	+2·38	+4·36

Depressions and cyclonic storms.

8. An area of low pressure lay over the north of the Bay of Bengal on the 11th and it formed into a slight depression on the morning of the 12th. It lay at the head of the Bay on the 12th and 13th, moved into south Bengal on the 14th and filled up there on the 15th. The depression caused some rain in north east India.

A depression appeared in the Andaman Sea on the 26th. Later information about it is very scanty, but it moved very slowly westwards and was probably feeble. It lay over the Gulf of Mannar on the 1st November and passed into the Arabian Sea near Malabar on the 2nd. As the depression approached the Indian coast from the Bay, monsoon conditions reappeared in southern India.

Western disturbances caused rain in the extreme north of the country between the 2nd and the 8th and again on the last two days of the month. Conditions were unsettled in Persia several times in the intervening period, but those disturbances apparently passed too far north to affect the weather in north-west India.

Pressure.

9. Pressure was high everywhere, the excess varying between 0·03″ and 0·06″.

The vertical gradient was somewhat steeper than usual between Peshawar and Murree and was normal elsewhere.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	+·034
Assam	+·042
Bengal	+·039
Bihar and Orissa	+·049
United Provinces	+·042
Punjab	+·038
North-West Frontier Province	+·032
Sind	+·038
Rajputana	+·033
Bombay	+·033
Central India	+·040
Central Provinces	+·047
Hyderabad	+·052
Mysore	+·037
Madras	+·041

TABLE 10.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference B−A.
	″		″	″
Quetta	+·027	Jacobabad	+·040	+·013
Leh	+·033	Lahore	+·037	+·004
Murree	+·006	Peshawar	+·033	+·027
Simla	+·042	Ludhiana	+·032	−·010
Mukteswar	+·040	Bareilly	+·040	0
Darjiling	+·018	Dhubri	+·038	+·020
Mount Abu	+·034	Deesa	+·036	+·002
Pachmarhi	+·041	Khandwa	+·040	−·001
Kodaikanal	+·032	Madura	+·032	0

Temperature.

10. Maximum temperature was, as a consequence of the very deficient rainfall, above normal over almost the whole country, the exceptions being Burma, Assam, Bengal and north-west India excluding east Rajputana and Gujarat; minimum temperature was below normal in Bihar and Orissa, the United Provinces East, Central India East, the Central Provinces proper and north Hyderabad.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	85·1	76·9	81·0	8·1	−1·1	−0·2	−0·9
2. Lower Burma	87·1	74·6	80·9	12·5	+0·3	−0·1	+0·4
3. Upper Burma	87·0	71·3	79·2	15·8	−1·3	−0·7	−0·6
4. Assam	86·4	71·3	78·8	15·1	+0·4	+0·2	+0·2
5. Bengal	88·5	73·2	80·9	15·4	+1·2	−0·5	+1·7
6. Orissa	91·9	71·0	81·4	21·0	+3·1	−3·1	+6·2
7. Chota Nagpur	91·3	64·5	77·9	26·7	+3·7	−3·6	+7·3
8. Bihar	91·1	69·2	80·2	21·9	+2·7	−2·3	+5·0

Sub-division.	Actual temperature. Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Departure from normal of Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
9. United Provinces, East	94·2	65·0	79·6	29·2	+4·0	—2·9	+6·9
10. Do. do., West	96·8	65·6	81·2	31·1	+4·5	—1·3	+5·8
11. Punjab, East and North	93·6	61·6	77·6	31·9	+1·4	—0·3	+1·7
12. Do., South-west	95·5	62·8	79·1	32·6	+0·5	—0·2	+0·7
13. Kashmir	65·8	39·7	52·7	26·2	—0·9	—0·6	—0·3
14. North-West Frontier Province	91·7	59·0	75·3	32·7	+0·7	—0·5	+1·2
15. Baluchistan	83·5	48·0	65·8	35·5	+0·9	—0·3	+1·2
16. Sind	96·0	68·6	82·3	27·4	+1·5	—0·2	+1·7
17. Rajputana, West	98·7	67·3	82·9	31·3	+1·8	—1·7	+3·5
18. Do., East	9·57	65·1	80·3	30·5	+2·4	+0·6	+1·8
19. Gujarat	96·9	69·6	83·3	27·4	+3·0	—1·4	+4·4
20. Central India, West	94·8	62·7	78·7	32·1	+5·0	—1·2	+6·2
21. Do. do., East	94·2	63·0	78·6	31·2	+3·8	—2·8	+6·6
22. Berar	95·6	66·8	81·2	28·8	+6·5	—1·2	+7·7
23. Central Provinces, West	93·6	63·9	78·6	29·4	+4·1	—2·4	+6·5
24. Do. do., East	90·5	63·5	77·0	26·9	+3·8	—3·6	+7·4
25. Konkan	89·1	75·5	82·3	13·6	+2·0	+0·8	+1·2
26. Bombay Deccan	93·7	66·1	79·9	27·6	+5·0	—0·4	+5·4
27. Hyderabad, North	94·3	65·7	80·1	28·7	+5·5	—4·1	+9·6
28. Do., South	93·8	69·9	81·9	23·9	+4·1	—0·4	+4·5
29. Mysore	86·9	66·7	76·8	20·3	+3·7	+0·7	+3·0
30. Malabar	87·0	75·5	81·2	11·6	+1·7	+0·9	+0·8
31. Madras, South-east	93·3	74·8	84·0	18·4	+3·4	+0·7	+2·7
32. Do. Deccan	95·7	72·5	84·1	23·2	+4·5	+0·4	+4·1
33. Do. Coast, North	91·1	75·3	83·2	15·8	+2·8	—0·6	+3·4

TABLE 12.

Division.	Departure from normal of Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	—0·5	—0·4	—0·5
Assam	+0·4	+0·2	+0·3
Bengal	+1·2	—0·5	+0·4
Bihar and Orissa	+3·1	—2·9	+0·1
United Provinces	+4·3	—2·2	+1·0
Punjab	+1·1	—0·3	+0·4
North-West Frontier Province	+0·7	—0·5	+0·1

Division.	Departure from normal of Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+1·5	—0·2	+0·6
Rajputana	+2·2	—0·2	+1·0
Bombay	+3·4	—0·7	+1·3
Central India	+4·6	—1·7	+1·4
Central Provinces	+4·5	—2·5	+1·0
Hyderabad	+4·4	—1·2	+1·6
Mysore	+3·7	+0·7	+2·2
Madras	+3·0	+0·4	+1·7

Winds.

11. Winds were generally somewhat weaker than usual. They were steadier than usual in Assam, Bihar and Orissa, the United Provinces, Sind, the Central Provinces, Hyderabad and Mysore and less steady in the North-West Frontier Province, Rajputana and Central India.

In the Peninsula and in Tennaserim there was a stronger southerly or easterly component in the wind direction than usual. The directions differed irregularly from the normal at some stations in northern India, but on the whole there was no appreciable difference.

TABLE 13.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·4	+0·1	25	— 1
Assam	1·7	—0·1	41	+17
Bengal	1·3	—0·5	20	— 2
Bihar and Orissa	1·9	—0·1	38	+ 9
United Provinces	1·1	—0·2	24	+ 6
Punjab	1·8	+0·2	25	+ 2
North-West Frontier Province.	0·8	—0·4	2	—18
Sind	4·5	—0·4	32	+ 9
Rajputana	2·5	—0·3	26	—10
Bombay	3·6	—0·9	40	+ 4
Central India	1·7	—0·8	24	— 5
Central Provinces	1·9	—0·4	35	+13
Hyderabad	4·2	—0·5	32	+20
Mysore	3·3	—0·4	24	+ 9
Madras	3·6	+0·2	37	— 1

Humidity and cloud.

12. Cloud amount was in defect except in Burma, the Punjab and the North-West Frontier Province, and the air was drier than usual over most of the country.

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma	88	— 1	·837	—·025	5·9	+0·6
Assam	87	— 3	·778	—·015	3·4	—1·6
Bengal	83	— 3	·818	—·028	2·6	—1·1
Bihar and Orissa	69	—10	·635	—·110	1·3	—1·4
United Provinces	55	—15	·476	—·122	0·1	—1·1
Punjab	49	— 6	·382	—·067	0·7	+0·1
North-West Frontier Province.	60	— 3	·397	—·024	0·5	—0·3
Sind	58	— 4	·531	—·053	0·4	—0·4
Rajputana	39	—10	·362	—·113	0·5	—0·6
Bombay	61	— 9	·601	—·075	1·2	—1·5
Central India	48	—15	·450	—·129	0·3	—1·6
Central Provinces	49	—18	·440	—·138	1·0	—1·5
Hyderabad	50	—17	·509	—·117	1·0	—2·3
Mysore	71	— 9	·608	—·032	2·7	—3·7
Madras	75	— 6	·789	—·020	3·1	—2·5

Rainfall.

13. Upper Burma and the south west Punjab were the only areas where the month's fall did not differ much from the normal. Everywhere else there was a considerable defect; 25 out of the 33 divisions into which the country is divided received less than a third of the normal fall.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	11·5	12·9	5·85	7·08	— 1·23	— 17
2. Lower Burma	8·0	10·4	6·20	8·11	— 1·91	— 24
3. Upper Burma	7·6	7·2	5·28	5·62	— 0·34	— 6
4. Assam	5·0	6·4	2·83	5·33	— 2·50	— 47
5. Bengal	1·6	4·9	1·08	4·62	— 3·54	— 77
6. Orissa	0·6	5·1	0·20	4·25	— 4·04	— 95
7. Chota Nagpur	0	3·0	0	2·05	— 2·05	—100
8. Bihar	0·3	2·6	0·29	2·29	— 2·00	— 87
9. United Provinces, East	0	1·7	0	1·94	— 1·94	—100
10. Do. do., West	0·1	0·8	0·02	0·83	— 0·81	— 98
11. Punjab, East and North	0·1	0·4	0·03	0·29	— 0·26	— 90
12. Do., South-west	0·3	0·1	0·10	0·09	+ 0·01	+ 11
13. Kashmir	1·4	1·2	0·53	0·95	— 0·42	— 44
14. North-West Frontier Province	0·3	0·6	0·07	0·39	— 0·32	— 82
15. Baluchistan	0	0·1	0·01	0·19	— 0·18	— 95
16. Sind	0	0	0	0·03	— 0·03	—100
17. Rajputana, West	0·1	0·1	0·01	0·17	— 0·16	— 94
18. Do., East	0	0·4	0	0·44	— 0·44	—100
19. Gujarat	0·1	0·8	0·02	0·65	— 0·63	— 97
20. Central India, West	0	0·8	0·01	0·57	— 0·56	— 98
21. Do. do., East	0	1·1	0	0·98	— 0·98	—100
22. Berar	0·6	2·1	0·26	1·49	— 1·23	— 83
23. Central Provinces, West	0·1	1·9	0·05	1·40	— 1·35	— 96
24. Central Provinces, East	0·1	2·2	0·02	1·78	— 1·76	— 99
25. Konkan	1·1	5·4	0·59	3·92	— 3·33	— 85
26. Bombay Deccan	1·4	4·5	0·73	2·96	— 2·23	— 75
27. Hyderabad, North	0·3	3·3	0·11	2·31	— 2·20	— 95
28. Do., South	0·3	4·2	0·18	2·85	— 2·67	— 94
29. Mysore	3·3	7·9	1·61	5·44	— 3·83	— 70
30. Malabar	8·7	12·0	6·22	10·07	— 3·85	— 38
31. Madras, South-east	4·4	9·2	2·57	7·57	— 5·00	— 66
32. Do. Deccan	0·5	5·8	0·17	4·19	— 4·02	— 96
33. Do. Coast, North	1·7	6·6	0·88	6·47	— 5·59	— 86

TABLE 16.

DIVISION.	RAINFALL. Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	5·64	6·61	−0·97	−15
Assam	2·83	5·33	−2·50	−47
Bengal	1·08	4·62	−3·54	−77
Bihar and Orissa	0·20	2·69	−2·49	−93
United Provinces	0·01	1·34	−1·33	−99
Punjab	0·04	0·24	−0·20	−83
North-West Frontier Province	0·07	0·39	−0·32	−82
Sind	0	0·03	−0·03	−100
Rajputana	0·01	0·35	−0·34	−97
Bombay	0·48	2·39	−1·91	−80
Central India	0	0·73	−0·73	−100
Central Provinces	0·09	1·59	−1·50	−94
Hyderabad	0·14	2·56	−2·42	−95
Mysore	1·61	5·44	−3·83	−70
Madras	2·12	7·07	−4·95	−70
Mean of India	1·12	2·91	−1·79	−62

Snowfall.

I.—AFGHANISTAN.

14. Snow fell on the 4th and the 30th on the Paghman and Shakardara ranges. This seems to be the usual number.

II.—NORTH-WEST FRONTIER PROVINCE.

Drosh.—There were two light falls on the higher ranges among the surrounding hills.

III.—KASHMIR.

(*a*) *Gulmarg.*—The report extends only to the 8th and mentions falls on the 4th, 5th, 6th and 7th on the higher mountains round the station.

(*b*) *Srinagar.*—Snow fell occasionally on the surrounding mountains, the falls occurring at unusually low elevations.

(*c*) *Skardu.*—No snow fell at the station, but light falls (less than half an inch on each occasion) occurred on all the surrounding hills and ranges during the first week as well as on the last two days of the month. The snow lying at the end of the month was about 2″ on the higher ranges and about half an inch on the lower.

(*d*) *Dras.*—A very light fall occurred at the station on the 31st.

(*e*) *Kargil.*—Snowfall on the surrounding mountains was as follows:—

5th October 6″ on Archulla, 4″ on Nakthulla and Samenulla and 1″ to 3″ on all other mountains.

9th ,, 4″ on Archulla, 3″ on Nakthulla and Samenulla and 1″ to 2″ on all other mountains.

29th ,, 5″ on Samenulla and 1″ to 3″ on all other mountains.

(*f*) *Leh.*—Very little snow fell at Leh itself from October to December, but frequent falls occurred on surrounding mountains.

IV.—PUNJAB

Kulu.—The Hamta (14,000 feet), Kumtzam (15,000 feet) and Bavalcha Dea (16,000 feet) passes received snowfalls in the middle of the month.

V.—UNITED PROVINCES.

Almora.—The reports from Patwaris are as follows :—

TABLE 17.

Locality.	Actual falls.	
	Depth.	Descent below perpetual snowline.
Malla Danpur	2 feet	...
Malla Darma	4 „	3 miles.
Malla Johar	*Nil*	...
Chandas	1½ feet	½ mile.

TABLE 18.

Name of pass or peak.	Accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwo pass	14	23
Binkaru „	5	11
Pindari peak	2	3
Kaphini „	2	3
Puwalidwar	2	...
Nandakot	2	...

VI.—EASTERN HIMALAYAS.

(*a*) *Sikkim.*—No snow fell at or in the vicinity of Gangtok. 0·38″ (measured as water) of snow and rain mixed fell at Yatung.

(*b*) *Bilipara Frontier Tracts.*—Heavy snow fell at the end of the month.

Summary.

15. The month's fall was about normal in Afghanistan but somewhat below it on the western Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in October, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 12

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, Wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three pre-vious columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	29·936	29·822	·114	29·875	+·035	29·843	89·6	74·3	15·3	93·9	69·7	24·2	85·0	87·5	81·4	+1·4	72·9	76·9	74·9	74·9
	VI.—Punjab.																					
11	Lahore . .	702	29·231	29·140	·091	29·174	+·025	29·839	94·8	60·5	34·3	98·8	53·6	45·2	82·5	93·7	76·3	+0·6	55·7	65·7	69·5	63·6
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·553	28·450	·103	28·496	+·037	29·843	96·7	65·5	31·2	99·5	59·4	40·1	88·6	94·9	79·8	+1·9	55·0	65·0	65·9	62·0
	X.—~~Bombay~~																					
25	Bombay . .	37	29·925	29·811	·114	29·877	+·030	29·854	89·5	77·3	12·2	93·2	74·9	18·3	83·2	86·5	82·1	+1·4	72·9	76·6	78·1	75·9
	XIV.—Mysore.																					
29	Bangalore . .	3,021	27·007	26·885	·122	26·947	+·040	29·764	86·6	65·3	21·3	88·7	58·4	30·3	79·4	84·3	74·4	+2·6	62·7	68·1	66·9	65·9
	XV.—Madras.																					
31	Trivandrum . .	198	29·773	29·669	·104	29·726		29·853	84·7	74·8	9·9	86·5	73·1	13·4	82·1	82·1	78·1			76·5	76·7	
	Pudukkottai .	318	29·645	29·500	·145	29·573		29·817	95·1	76·1	19·0	98·9	72·0	26·9	87·0	91·1	85·6			73·8	73·5	
	Madras . .	22	29·939	29·829	·110	29·889	+·044	29·842	92·1	75·0	17·1	96·3	68·6	27·7	88·3	88·0	82·3	+1·5	73·1	76·9	77·3	75·8
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·720	25·639	·081	25·676	+·039	25·630	81·8	54·2	27·6	86·8	46·3	40·5	70·9	77·1	68·0	+1·1	51·8	61·8	64·3	59·3
	Kodaikanal . .	7,688	22·879	22·819	·060	22·849		22·784	64·9	50·5	14·4	68·7	45·2	23·5	61·3	59·1	57·7		48·4	55·5	56·0	53·3
	Extra India.																					
	Seychelles . .	15	30·020	29·926	·094	29·984	+·029*	29·922	82·5		5·2	84·1	73·9	10·2	80·6	81·2	78·5	+0·8*	70·7	75·4	75·6	73·9
	Mauritius . .	181				29·953	+·006	30·023	79·9	64·9	15·0	85·3	60·1	25·2			71·6	−0·4				69·9

N.B.—Elevations in italics indicate barometric determinations.

Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Departure from old normal.

A.

stations in India, etc., in October, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·788	·813	·691	·784	—·032	93	63	54	74	— 8	2·9	3·0	2·9	—1·7	1	5	6	6	3	2	13	9	17	N 66° W	N 18° W	31	11	51	49	0·29	0·12	Calcutta	5
																															VI.—Punjab.	
·361	·409	·395	·402	—·043	72	37	25	49	— 3	0·4	0·5	0·5	—0·3	31	2	1	3	3	1	4	1	16	N 49° W	N 9° W	19	11	19	28	0	0	Lahore	11
																															IX.—Rajputana.	
·307	·325	·278	·308	—·091	49	24	16	33	—13	0·6	1·3	0·9	—0·8	4	4	4	3	6	2	2	12	25	N 52° W	N 27° W	43	38	63	54	0	0	Jaipur	18
																															X.—Bombay.	
·751	·829	·847	·822	—·030	80	73	67	75	— 6	1·2	0·5	0·9	—2·2	0	1	2	14	8	0	0	14	23	N 35° W	N 9° E	26	32	117	159	0	0	Bombay	25
																															XIV.—Mysore.	
·542	·558	·457	·533	—·075	87	56	39	64	—14	3·1	4·3	3·7		5	5	25	18	1	4	0	2	2	N 60° E	N	61	8	94	82	1·05	0·59	Bangalore	29
																															XV.—Madras.	
	·834	·845				77	78			6·4	9·5	7·9		12	2	0	1	1	0	5	22	19	N 73° W		63		80		7·63	2·51	Trivandrum.	31
	·656	·592				51	42			4·0	5·2	4·6		13	6	16	5	6	4	4	2	6	N 47° E		26		83		1·29	0·50	Pudukkottai	
·790	·773	·794	·801	—·055	91	58	60	72	—11	4·0	2·9	3·5	—2·5	2	5	8	24	15	2	6	0	0	S 83° E	N 54° E	60	20	52	84	0·44	0·33	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·356	·448	·457	·418	—·058	85	59	49	65	—10	2·6	3·6	3·1	—0·9	0	1	0	30	0	0	0	31	0	N 45° W	S 86° W	2	34	8	12	0·05	0·03	Katmandu.	
·320	·381	·415	·372		87	71	84	81		4·9	8·3	6·6		0	17	15	2	3	0	0	4	21	N 6° W		66		168		7·08	1·05	Kodaikanal.	
																															Extra India.	
·661	·819	·810	·773	—·021	70	77	76	76	— 5	5·9	6·2	6·1	—0·1*	3	2	1	1	29	19	4	1	2	S 24° E	S 39° E	63	51	173	139	9·14	2·55	Seychelles.	
			·736	+·008				70	+ 1			6·1	+1·1										S 80° E	S 76° E			178	194	1·36	0·43	Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 215 stations in India, etc., in October, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	+·034	87·1	−0·5	73·2	−0·4	80·2	−0·5	13·9	+0·1	−1	88	−1	·837	−·025	5·9	+0·6	5·64	6·61	−0·97
Assam	+·042	86·4	+0·4	71·3	+0·2	78·8	+0·3	15·1	−0·1	+17	87	−3	·778	−·015	3·4	−1·6	2·83	5·33	−2·50
Bengal	+·039	88·5	+1·2	73·2	−0·5	80·9	+0·4	15·4	−0·5	−2	83	−3	·818	−·028	2·6	−1·1	1·08	4·62	−3·54
Bihar and Orissa	+·049	91·4	+3·1	68·6	−2·8	80·0	+0·1	22·8	−0·1	+9	69	−10	·635	−·110	1·3	−1·4	0·20	2·69	−2·49
United Provinces of Agra and Oudh	+·042	95·4	+4·3	65·3	−2·2	80·3	+1·0	30·1	−0·2	+6	55	−15	·476	−·122	0·1	−1·1	0·01	1·34	−1·33
Punjab	+·038	94·2	+1·1	62·0	−0·3	78·1	+0·4	32·2	+0·2	+2	49	−6	·382	−·067	0·7	+0·1	0·04	0·24	−0·20
North-West Frontier Province	+·032	91·7	+0·7	59·0	−0·5	75·3	+0·1	32·7	−0·4	−18	60	−3	·397	−·024	0·5	−0·3	0·07	0·39	−0·32
Sind	+·038	96·0	+1·5	68·6	−0·2	82·3	+0·6	27·4	−0·4	+9	58	−4	·531	−·053	0·4	−0·4	0	0·03	−0·03
Rajputana	+·033	97·2	+2·2	66·2	−0·2	81·7	+1·0	30·9	−0·3	−10	39	−10	·362	−·113	0·5	−0·6	0·01	0·35	−0·34
Bombay	+·033	94·6	+3·4	69·4	−0·7	82·0	+1·3	25·2	−0·9	+4	61	−9	·601	−·075	1·2	−1·5	0·48	2·39	−1·91
Central India	+·04[illegible]	91·5	+4·6	62·8	−1·7	78·7	+1·4	31·7	−0·8	−5	48	−15	·450	−·129	0·3	−1·6	0	0·73	−0·73
Central Provinces	+·047	93·0	+4·5	64·5	−2·5	78·7	+1·0	28·5	−0·4	+13	49	−18	·440	−·138	1·0	−1·5	0·09	1·59	−1·50
Hyderabad	+·052	94·0	+4·4	68·5	−1·2	81·3	+1·6	25·5	−0·5	+20	50	−17	·509	−·117	1·0	−2·3	0·14	2·56	−2·42
Mysore	+·037	86·9	+3·7	66·7	+0·7	76·8	+2·2	20·3	−0·4	+9	71	−9	·608	−·032	2·7	−3·7	1·61	5·44	−3·83
Madras	+·041	91·9	+3·0	74·7	+0·4	83·3	+1·7	17·1	+0·2	−1	75	−6	·789	−·020	3·1	−2·5	2·12	7·07	−4·95

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·808		29·887	29·855	10th	29·731	7th	79·0	75·9	84·3		74·8		79·5		9·5	89·2	30th	72·5	2nd
	Mergui	66	29·900	+·025	29·896	29·966	28th	29·811	25th	77·5	75·4	85·9	−1·0	73·4	+0·7	79·7	−0·1	12·5	90·3	24th	71·2	2nd & 15th.
	Tavoy	19	29·937	+·011	29·868	30·001	28th	29·883	4th	78·6	75·8	88·2	+0·5	70·7	−3·0?	79·4	−1·3?	17·5	91·0	23rd	67·8	28th & 29th.
	Moulmein	94	29·891	+·032	29·912	29·973	28th	29·828	4th	79·1	76·2	88·6	+0·7	74·9	0	81·8	+0·3	13·7	91·1	23rd	71·1	29th
	Rangoon	18	29·947	+·036	29·902	30·043	28th	29·870	4th	79·5	76·6	88·6	+1·1	75·6	−0·2	82·2	+0·5	13 0	91·5	20th & 22nd.	72·6	8th
	Bassein	27	29·941	+·040	29·904	30·035	27th	29·862	4th	80·4	77·7	88·8	+1·5	75·4	−0·2	82·1	+0·7	13·4	92·4	23rd	72·5	15th
	Diamond Island	41	29·898	+·019	29·874	29·998	27th	29·826	4th	81·4	79·4	85·9	−0·3	77·2	+0·1	81·5	−0·1	8·7	90·0	24th	73·0	8th
	Toungoo	164	29·796	+·034	29·903	29·901	27th	29·715	3rd	79·0	76·0	89·7	−0·2	73·3	−1·3	81·5	−0·7	16·4	93·0	18th	67·9	24th
	Kyaukpyu*	18	29·931		29·889	30·031	28th	29·844	4th	80·4	74·0	85·5		76·5		81·0		9·0	88·4	6th	73·4	25th
	Akyab	24	29·918	+·022	29·879	30·015	27th	29·796	13th	78·2	76·1	85·7	−1·8	74·1	−2·5?	79·9	−2·1?	11·6	90·0	7th	68·6	26th
3	Minbu	*165*	29·786	+·027	29·895	29·909	27th	29·694	3rd	78·7	75·1	87·4	−3·1?	74·8	−0·4	81·1	−1·7?	12·6	91·9	19th	71·8	24th
	Yamethin*	644	29·309	+·032	29·307	29·407	28th	29·215	1st	78·2	75·1	89·4	−1·6	73·9	−0·1	81·6	−0·9	15·5	92·9	17th	65·0	24th
	Mandalay	250	29·722	+·052	29·922	29·872	27th	29·621	1st	79·7	75·3	91·0	−0·8	74·2	−0·6	82·6	−0·7	16·8	97·2	22nd	64·0	23rd
	Monywa	*280*	29·696	+·056	29·928	29·829	27th	29·593	1st	78·5	74·8	89·4	−0·9	74·4	−1·0	81·9	−0·9	15·0	95·3	18th	68·2	24th
	Lashio	*2,890*	27·188	+·023	27·134	27·299	29th	27·080	2nd	68·1	66·4	79·9	−3·0	64·3	+0·5	72·1	−1·3	15·6	84·5	9th & 17th.	56·0	23rd
	Bhamo	*361*	29·533	+·046	29·914	29·752	28th	29·463	1st	74·2	72·5	88·6	−1·2	66·1	−1·7	77·4	−1·5	18·5	94·2	9th	59·4	22nd
	Myitkyina	458	29·491	+·056	29·920	29·649	28th	29·359	1st	73·6	71·4	85·6	−0·6	69·2	−1·4	77·4	−1·0	16·4	91·4	9th	64·0	22nd
	II.—Assam.																					
4	Dibrugarh	353	29·613	+·038	29·933	29·758	29th	29·435	1st	74·6	71·9	85·1	+0·6	70·5	+1·0	77·8	+0·8	14·6	90·7	10th	61·3	30th
	Sibsagar	333	29·618	+·033	29·915	29·783	29th	29·469	1st	74·1	72·3	84·1	−0·3	71·6	+1·0	77·8	+0·3	12·5	88·6	8th & 10th.	64·8	30th
	Tezpur	252	29·725	+·050	29·941	29·859	28th	29·548	1st	74·2	71·9	87·4	+1·3	71·1	0	79·2	+0·7	16·3	90·6	10th	65·4	30th
	Gauhati	196	29·781	+·044	29·939	29·943	28th	29·602	1st	76·2	72·7	87·3	0	70·2	−0·3	78·7	−0·1	17·1	91·8	11th	63·7	26th
	Dhubri	115	29·848	+·038	29·918	29·978	28th	29·663	1st	75·1	74·6	85·8	+0·9	73·6	+0·9	79·7	+0·9	12·2	88·1	2nd	68·3	30th
	Silchar	104	29·878	+·050	29·936	29·995	27th	29·736	1st	77·0	74·2	88·6	−0·1	71·0	−1·3	79·8	−0·7	17·6	93·6	10th	64·2	21st
	Srimangal	66	29·905		29·921	30·021	28th	29·778	1st	77·4	74·0	90·7	+1·5	68·0?	−2·6?	79·3	−0·5?	22·7	94·7	10th	60·6	22nd
	III.—Bengal.																					
5	Cox's Bazar	36	29·903		29·884	30·013	28th	29·764	13th	78·3	75·9	85·9		72·2		79·0		13·7	89·5	10th	66·7	23rd
	Chittagong	87	29·865	+·039	29·899	29·970	27th	29·759	1st	76·5	74·9	86·7	+0·1	72·3	−1·0	79·5	−0·5	14·4	90·1	7th & 9th	66·2	22nd
	Noakhali	43	29·911	+·044	29·901	30·030	28th	29·786	13th	78·9	76·2	87·0	+0·8	73·4	−0·1	80·2	+0·3	13·6	91·0	7th	68·0	29th
	Barisal	12	29·931	+·038	29·890	30·052	28th	29·813	1st	80·5	76·7	87·0	−0·6	74·5	−0·1	80·8	−0·3	12·5	91·7	4th	70·1	22nd
	Narayanganj	26	29·922	+·034	29·897?	30·045	28th	29·789	1st	80·4	76·1	85·5	+0·6	75·1	−0·2	81·8	+0·2	13·4	92·1	3rd	70·2	31st
	Mymensingh	63	29·891	+·039	29·906	30·022	28th	29·749	1st	78·5	75·7	87·5	+0·8	74·5	+0·9	81·0	+0·9	13·0	90·3	10th	69·8	31st
	Begra	75	29·880	+·040	29·906	30·013	28th	29·717	1st	79·1	75·5	89·3	+2·0	72·0	−0·8	80·7	+0·6	17·3	93·3	1st	66·3	31st
	Dinajpur	123	29·825	+·036	29·904	29·981	27th	29·663	1st	77·7	74·5	88·6	+1·1	71·2	−0·3	80·0	+0·4	17·2	92·3	2nd & 3rd	66·0	30th
	Jalpaiguri	283	29·680	+·045	29·926	29·804	28th	29·511	1st	74·5	71·8	87·7	+1·3	70·1	0	78·9	+0·7	17·6	91·4	2nd	61·4	28th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 30 days.

B.

stations in India, etc., in October, 1918.

Wind direction: Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction	Normal direction	Wind velocity: Mean velocity, miles per hour	Normal	Departure from normal	Wind steadiness: Actual percentage	Departure from normal	Hygrometry 8 hrs.: Mean humidity at 8 hrs.	Departure from normal	Mean vapour tension at 8 hrs. in inches of mercury	Departure from normal	Cloud: Mean cloud amount at 8 hrs.	Departure from normal	Rainfall: Number of rainy days	Departure from normal	Rainfall of month	Normal rainfall of month	Departure from normal	Total rainfall from 1st May to 31st October, 1918	Normal rainfall for this period	Departure from normal of this period	Heaviest rainfall during month	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	54	55
																															I.—Burma.
3	1	13	4	3	0	1	1	0	N 61° E		4·5			46		86		·847		5·8		15		13·91	18·87	— 4·96	123·19	156·83	—33·64	3·01	Victoria Point.
30	0	0	0	1	0	0	0	0	S 45° E	N 5° E	0·3	1·1	—0·8	3	—15	91	+ 2	·859	—·009	5·2	+0·6	15	— 1·6	8·50	12·18	— 3·68	140·19	147·30	— 7·11	1·08	Mergui.
21	0	4	3	2	1	0	0	0	N 87° E	N 9° E	1·4	0·8	+0·6	23	+20	87	— 2	·850	—·017	5·3	+1·7	8	— 4·4	5·87	10·54	— 5·67	218·41	206·93	+11·48	2·28	Tavoy.
3	1	1	12	6	2	0	0	0	S 75° E	S 85° E	4·5	1·6	+2·9	56	+24	87	— 1	·855	—·013	5·1	+0·1	10	— 1·3	5·60	8·62	— 3·02	193·19	182·68	+10·51	1·12	Moulmein.
4	7	9	3	2	3	1	0	2	N 42° E	S 53° E	3·0	2·1	+0·9	46	+24	87	— 3	·875	—·028	7·2	+1·4	5	— 4·9	1·96	6·99	— 5·03	85·36	93·69	— 8·33	0·50	Rangoon.
13	2	2	5	5	2	0	0	1	S 81° E	N 80° E	3·1	2·4	+0·7	30	+12	88	— 5	·917	—·004	5·1	+0·3	7	— 5·3	8·34	8·20	+ 0·14	93·87	104·01	—10·14	3·72	Bassein.
2	5	7	4	5	2	1	2	3	N 52° E	N 53° E	7·0	5·5	+1·5	33	+ 1	92	+ 9?	·978	+·069?	5·1	—0·4	10	— 0·9	7·05	8·35	— 1·30	103·28	110·40	— 7·12	1·78	Diamond Island.
12	5	3	0	3	4	0	2	2	N 19° E	N 84° E	1·5	1·3	+0·2	7	—11	86	— 3	·851	—·041	7·0	+1·4	7	— 3·2	6·25	7·42	— 0·87	94·58	78·28	+16·30	1·73	Toungoo.
26	1	0	1	2	0	0	0	0	S 80° E		0·2*			77		86		·893		7·2		9		6·19	8·91	— 2·72	198·75	167·17	+31·48	2·30	Kyaukpyu.
14	2	13	1	1	0	0	0	0	N 46° E	N 50° E	1·9	1·8	+0·1	49	—26	91	0	·869	—·045	6·3	+1·0	7	— 1·8	19·26	10·61	+ 8·65	300·08	188·88	+111·20	2·27	Akyab.
8	0	0	0	10	0	0	2	11	N 75° W	S 10° W	1·7	4·7	—3·0	10	— 1	84	0	·821	—·030	5·4	+0·7	7	+ 0·7	4·73	4·60	+ 0·13	39·16	31·35	+ 7·81	2·64	Minbu.
										S 45° E		2·5				86	— 1	·829	—·024	5·2	0	9	+ 1·1	5·64	5·89	— 0·25	31·35	33·65	— 2·30	1·55	Yamethin.
30	0	0	0	0	0	1	0	0	S 45° W	S	1·3	2·3	—1·0	3	—22	81	— 2	·814	—·041	5·7	+1·8	8	+ 1·6	3·49	4·74	— 1·25	25·12	29·87	— 4·75	1·05	Mandalay.
8	9	3	0	4	3	0	0	4	N 15° E		1·6			27		84	— 5?	·817	—·073?	6·5	+1·1	6	— 0·5	1·45	4·40	— 2·95	25·25	28·74	— 3·49	0·43	Monywa.
12	6	1	3	1	1	4	0	3	N 7° W		1·2			13		91	— 2	·627	—·030	5·3	—2·2	12	+ 2·8	12·36	5·69	+ 6·67	81·96	55·42	+26·54	3·75	Lashio.
30	0	1	0	0	0	0	0	0	N 45° E	N 4° W	0·4	1·4	—1·0	3	—19	92	+ 3	·778	—·001	6·3	+1·6	10	+ 3·8	4·47	4·31	+ 0·16	77·34	67·04	+10·30	0·93	Bhamo.
27	2	2	0	0	0	0	0	0	N 23° E		1·1			10		89	0	·735	—·039	5·9	—0·3	10	+ 1·6	5·26	7·42	— 2·16	86·91	73·17	+13·77	1·47	Myitkyina.
																															II.—Assam.
17	1	3	8	1	1	0	0	0	N 83° E		0·2			37		87	— 2	·749	+·016	4·1	—0·7	7	— 0·6	3·39	5·76	— 2·37	86·26	88·21	— 1·95	1·05	Dibrugarh.
13	2	6	3	3	3	1	0	0	N 87° E	N 86° E	0·7	1·4	—0·7	28	+ 3	92	— 4	·771	—·025	6·6	—0·5	7	— 0·5	3·44	5·12	— 1·68	70·04	76·49	— 6·45	1·60	Sibsagar.
18	0	6	6	0	0	1	0	0	N 69° E		1·0			30		89	0?	·753	—·010	2·6	—1·8	4	— 1·8	2·73	3·99	— 1·26	106·15	60·27	+45·88	1·03	Tezpur.
25	2	1	1	1	0	0	0	1	N 33° E		1·0			13		84	— 5	·757	—·035	2·9	—2·7	2	— 1·6	2·27	2·53	— 0·26	67·02	54·39	+12·63	1·80	Gauhati.
0	0	13	15	1	0	2	0	0	N 73° E	N 67° E	3·7	2·8	+0·9	79	+36	84	— 4	·812	+·015	1·3	—2·3	1	— 3·2	0·14	3·95	— 3·81	93·68	87·12	+ 6·56	0·10	Dhubri.
25	0	1	4	1	0	0	0	0	E	N 63° E	0·8	1·2	—0·4	17	+13	87	— 2	·808	—·021	3·7	—1·7	5	— 2·4	3·70	6·57	— 2·87	126·23	98·74	+29·49	2·53	Silchar.
																85	— 1	·795	—·043	2·4		3	— 5·3	1·01	6·92	— 5·91	86·25	83·44	+ 2·81	0·45	Srimangal.
																															III.—Bengal.
26	0	1	2	2	0	0	0	0	S 80° E		1·4			13		89		·863		4·1		6		8·83	8·23	+ 0·60	215·11	123·19	+91·92	4·24	Cox's Bazar.
29	0	6	5	1	0	0	0	0	N 70° E	N 67° E	2·2	2·0	+0·2	33	—14	92	+ 3	·843	—·019	4·4	—0·1	4	— 2·9	7·04	6·90	+ 0·14	116·06	89·79	+26·27	4·91	Chittagong.
17	0	5	4	3	0	1	1	0	N 83° E		1·1			26		88	0	·864	—·011	3·4	+0·8	6	— 1·3	5·60	8·31	— 2·71	112·13	108·51	+ 3·62	1·72	Noakhali.
13	6	2	1	0	5	1	2	1	N 23° W	N 20° E	1·0	1·5	—0·5	7	— 4	83	— 1	·863	—·027	4·3	+1·0	5	— 1·3	2·32	5·97	— 3·65	84·08	71·43	+12·65	0·86	Barisal.
15	0	1	4	2	3	2	3	1	S 13° E	N 50° E	0·8	2·0	—1·2	13	+ 2	81	— 4	·844	—·027	2·9	—1·4	2	— 3·5	0·37	4·84	— 4·47	82·92	61·63	+21·29	0·25	Narayanganj.
25	0	2	3	1	0	0	0	0	N 82° E	S 85° E	0·6	1·2	—0·6	17	—20	87	0	·855	+·002	3·4	—1·0	2	— 3·5	1·21	5·24	— 4·03	95·01	83·44	+11·57	1·07	Mymensingh.
18	3	4	3	0	2	1	0	0	N 59° E	N 86° E	0·8	1·2	—0·4	20	+ 4	84	0	·839	+·010	1·4	—1·0	1	— 3·9	0·12	4·39	— 4·27	90·30	64·57	+25·73	0·10	Bogra.
8	5	4	6	2	1	1	3	1	N 47° E	N 53° E	1·1	1·8	—0·7	27	+ 5	85	0	·813	+·004	1·3	—1·8	1	— 2·8	2·25	3·81	— 1·06	102·51	65·47	+37·04	2·25	Dinajpur.
20	2	1	3	1	0	0	0	4	N 19° E	N 51° E	0·7			20	—23	87	0	·749	—·020	1·1	—1·7	3	— 1·4	3·06	4·67	—1·61	132·91	119·49	+13·42	1·88	Jalpaiguri.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Sangor Island	10	29·939	+·047	29·893	30·055	28th	29·828	1st	82·3	77·8	88·6	+1·5	76·5	+0·3	82·6	+0·9	12·1	93·2	4th	72·7	31st
	Midnapore	149	29·91	+·035	29·880	29·914	28th	29·675	1st	79·0	71·8	91·7	+2·3	71·5	—1·7	81·6	+0·3	20·2	96·0	1st	64·1	21st
	Calcutta	21	29·925	+·036	29·893	30·015	28th	29·804	1st	78·8	75·6	89·8	+2·6	71·3	0	82·0	+1·3	15·5	93·9	5th	69·7	23rd
	Jessore	30	29·924	+·045	29·891	30·053	28th	29·775	1st	80·9	75·8	89·1	+0·7	74·4	+0·1	81·8	+0·4	14·7	92·5	6th & 8th	68·5	20th
	Burdwan	99	29·844	+·029	29·792	29·973	28th	29·718	1st	79·2	72·9	91·1	+2·1	74·2	—2·3	81·6	—0·1	18·9	94·8	2nd	67·0	21st
	Berhampore	67	29·885	+·041	29·901	30·030	28th	29·740	1st	79·1	73·9	85·7	+1·9	73·2	—1·1	81·5	+0·4	16·5	93·4	1st	67·4	20th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·898	+·043	29·893	30·019	28th	29·788	1st	77·6	73·3	91·3	+2·9	70·9	—2·3	81·1	+0·3	20·4	95·2	1st	59·7	22nd
	Hukitala (False Point)	29	29·934	+·056	29·904	30·043	28th	29·826	1st													
	Cuttack	80	29·876	+·049	29·898?	29·984	28th	29·765	1st	78·0	72·6	93·4	+3·3	73·3	—1·3	83·3	+1·0	20·1	95·7	2nd & 6th	66·4	25th
	Puri	24	29·944	+·061	29·909	30·041	28th	29·850	1st	80·7	75·3	90·9	+1·9	77·1	+0·3?	84·0	+1·1?	13·8	95·1	5th & 6th	71·0	25th
	Angul	455	29·501	+·056	29·918	29·603	28th	29·405	1st	77·4	69·6	92·6	+3·5	67·5	—3·4	80·0	+0·1	25·1	96·2	2nd	61·4	26th
	Sambalpur	486	29·479	+·048	29·924	29·580	28th	29·387	1st	74·9	68·9	91·4	+2·6	66·0	—5·6	78·7	—1·5	25·4	94·6	3rd	60·0	26th
7	Chaibasa	733	29·208	+·043	29·907	29·352	28th	29·105	1st	73·3	66·3	92·5	+4·1	65·4	—4·5	78·9	—0·2	27·1	96·0	1st	60·3	24th
	Ranchi	2,128	27·631	+·053	29·858?	27·943	28th	27·737	1st	75·3	63·3	86·4	+3·1	64·6	—1·7	75·5	+0·7	21·8	88·7	4th & 6th	58·8	25th
	Purulia	816	29·145	+·061?	29·922	29·275	28th	29·039	1st	76·9	66·8	93·5	+4·5	67·9	—2·3	80·7	+1·1	25·6	96·5	1st	64·1	29th & 31st
	Daltonganj	730	29·233	+·055	29·934	29·345	28th	29·118	1st	71·1	64·3	92·7	+3·3	60·3	—5·3	76·5	—1·0	32·4	95·6	6th	55·2	24th
8	Purnea	124	29·875	+·034	29·906	29·978	28th	29·655	1st	75·5	72·7	88·6	+1·0	69·8	—1·3	79·2	—0·1	18·8	91·7	2nd	61·9	28th
	Monghyr	155	29·787		29·836?	29·933	28th	29·630	1st	78·9	71·5	90·7		70·6		80·7		20·1	93·4	4th	64·9	28th
	Darbhanga	165	29·789	+·046	29·911	29·344	28th	29·618	1st	78·2	72·5	88·9	+1·8	69·3	—3·4	79·1	—0·8	19·6	92·0	1st & 2nd	61·7	27th
	Pusa	188	29·755		29·901	29·917	28th	29·594	1st	76·8	72·2	90·9		68·3		79·6		22·6	94·8	1st	63·1	31st
	Patna	183	29·768	+·045	29·907	29·933	28th	29·618	1st	79·1	69·9	90·4	+1·9	70·7	—1·8	80·5	+0·1	19·7	93·9	2nd & 3rd	65·2	31st
	Buxar	239	29·700	+·039	29·899	29·860	28th	29·560	1st	74·9	66·5	94·9	+4·8	68·0	—2·6	81·4	+1·1	26·9	97·8	1st	62·8	31st
	Gaya	372	29·588	+·055	29·922	29·726	28th	29·455	1st	75·4	65·7	93·0	+3·1	69·2	—1·8	81·1	+0·7	23·8	98·7	17th	65·2	20th
	Naya Dumka	489	29·459	+·045	29·905	29·586	28th	29·320	1st	78·4	71·0	91·7	+3·7	66·0	—2·7	79·8	+0·5	23·7	96·4	2nd	62·8	20th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·677	+·036	29·857	29·822	28th	29·536	1st	75·2	69·3	91·3	+2·6	65·6	—4·0	78·5	—0·7	25·7	96·3	2nd	62·0	17th
	Benares	267	29·630	+·044	29·805	29·830	28th	29·556	1st	77·7	67·3	93·9	+3·6	62·9	—4·8	78·4	—0·6	31·0	97·0	1st	58·0	20th
	Allahabad	309	29·656	+·061	29·926	29·801	28th	29·548	1st	76·8	65·0	96·5	+5·7	64·3	—2·0	80·4	+1·3	32·2	99·3	9th	58·8	20th
	Cawnpore	416	29·528	+·046	29·808	29·677	28th	29·414	1st	75·3	63·3	95·8	+5·3	66·0	—0·9	80·9	+2·2	29·8	98·8	1st	60·7	25th
	Lucknow	368	29·581	+·052	29·910	29·744	28th	29·452	1st													
	Bahraich	407	29·524	+·040	29·899	29·678	28th	29·362	1st	75·4	67·5	93·6	+3·0	66·2	—1·7	73·9	+0·7	27·4	98·4	2nd	(2·3	27th
10	Jhansi	824	29·127	+·029	29·815	29·235	28th	29·044	26th	78·3	63·5	98·2	+5·1	66·1	—3·7	82·1	+0·7	32·1	101·8	7th	60·7	29th
	Agra	556	29·285	+·036	29·906	29·509	28th	29·282	1st	78·7	63·4	97·2	+3·8	67·7	—0·3	82·5	+1·7	29·5	101·3	7th	62·1	26th
	Mainpuri	516	29·417	+·038	29·903	29·576	28th	29·312	1st	73·6	62·2	97·3	+4·4	64·5	—0·4	80·9	+2·0	32·8	100·6	7th	58·2	25th
	Bareilly	568	29·360	+·040	29·901	29·526	28th	29·217	1st	73·6	66·1	94·4	+4·9	64·2	—0·8	79·3	+2·1	30·2	101·1	1st	57·1	22nd
	Roorkee	899	29·033	+·043	29·925	29·211	28th	29·010	1st	68·6	60·6	90·1	+1·1	58·1?	—2·9?	74·1?	—0·9?	32·0?	91·3	1st	53·4	22nd

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

in India, etc., in October, 1918—*continued.*

Wind direction.										Wind velocity.			Hand steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																												
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																															III.—Bengal—*concld.*
1	7	4	1	0	1	3	5	9	N 37° W	N 14° W	4·4	3·9	+0·5	53	+31	81	− 4	·890	−·001	3·7	−1·3	2	−5·5	1·27	7·51	−6·27	49·70	63·74	−14·04	1·10	Saugor Island.
									N 27° E		1·2			6		69	−10	·686	−·098	2·0	−0·4	1	−4·0	0·29	3·31	−3·11	54·02	52·17	+ 1·85	0·20	Midnapore.
29	1	1	0	0	0	0	0	0	N 85° W	N 58° W	2·1	2·0	+0·1	37	+18	86	+ 2	·843	−·012	2·2	−1·3	2	−3·9	0·79	3·88	−3·59	52·29	56·24	− 3·95	0·12	Calcutta.
5	2	1	3	0		7	0	6	N 66° E	S 67° E	0·5	1·5	−1·0	7	−15	78	− 7	·825	−·051	1·3	−2·2	2	−3·7	0·25	4·63	−4·38	57·98	57·52	+ 0·46	0·13	Jessore.
29	0	1	1	0	0	0	0	0	N 67° W	N 28° W	0·3	1·4	−1·1	2	−12	73	− 8	·728	−·081	1·8	−1·9	0	−4·0	0·01	2·97	−2·96	63·01	51·65	+11·36	0·01	Burdwan.
29	1	0	0	0	0	1	0	0	S	S 39° W	0·6	1·5	−0·9	5	0	77	− 8	·766	−·067	1·4	−2·2	0	−4·5	0	3·55	−3·55	71·36	51·52	+19·84	0	Berhampore.
																															IV.—Bihar and Orissa.
8	9	3	1	0	0	2	2	6	N 18° W	N 41° W	1·1	1·9	−0·8	49	+13	81	− 2	·766	−·049	2·6	−0·4	0	−5·6	0·10	5·31	−5·21	46·81	54·44	− 7·63	0·06	Balasore.
0	4	1	1	0	2	2	9	14	N 61° W		4·6			66	+19					3·4	−1·3	1	−6·4	0·75	7·83	−7·10	33·68	55·77	−22·09	0·69	Hukitala (False Point).
25	1	0	0	0	0	2	3	0	S 84° W	N 51° W	1·0	1·3	−0·3	14	− 4	76	− 4	·732	−·064	2·0	−1·7	1	−4·8	0·15	4·97	−4·84	35·74	54·30	−18·56	0·13	Cuttack.
6	18	3	0	0	0	0	0	4	N 2° W		6·0			74		77	− 4	·808	−·046	2·6	−0·6	3	−4·2	1·23	6·61	−5·38	53·01	47·98	+ 5·03	0·89	Puri.
16	0	0	0	0	0	0	3	7	N 8·° W		2·8			45		66	−13	·624	−·116	1·3	−1·6	0	−4·8	0·02	3·51	−3·49	37·33	40·98	− 3·65	0 02	Angul.
0	8	13	1	0	1	2	0	6	N 14° E	N 33° E	2·3	2·1	+0·2	66	+ 9	72	− 5	·628	−·113	1·1	−1·8	0	−3·3	0	1·77	−1·77	68·62	60·88	+ 7·74	0	Sambalpur.
26	0	0	0	0	1	4	0	0	S 37° W	S 63° W	1·3	0·7	+0·6	17	− 5	68	−14	·555	−·161	1·6	−1·3	0	−3·7	0	2·78	−2·78	35·43	46·45	−11·02	0	Chaibasa
7	1	1	2	0	0	2	1	7	N 71° W	N 89° W	2·7	3·3	−0·6	53	+32	49	−21	·451	−·170	1·2	−1·9	0	−3·9	0	2·34	−2·34	41·24	50·82	− 9·58	0	Ranchi.
8	0	0	0	0	0	1	11	11	N 70° W		1·5			65		57	−21	·526	−·173	2·0	−0·2	0	−3·5	0	2·76	−2·76	39·31	47·20	− 7·89	0	Purulia.
30	0	0	0	1	0	0	0	0	S 45° E		1·1			3		67	−13	·514	−·127	0·5	−1·4	0	−2·9	0	1·53	−1·53	43·74	38·06	+ 5·68	0	Daltonganj.
3	2	4	8	2	1	3	4	4	N 47° E	N 79° E	1·6	1·5	+0·1	13	− 2	87	− 1	·768	−·030	3·5	+1·22	0	−3·1	0·01	2·83	−2·82	77·74	58·52	+19·22	0·01	Purnea.
11	1	1	5	4	0	5	2	2	S 34° E		2·0*			13		68		·675		0·1		0		0	0·85	−0·85	62·05	46·34	+15·71	0	Monghyr.
29	0	1	1	0	0	0	0	0	N 66° E	S 68° E	1·3	1·5	−0·2	7	−14	74	− 9	·725	−·065	0·7	−1·1	1	−2·0	0·81	2·52	−1·71	50·13	48·48	+ 1·65	0·81	Darbhanga.
15	0	2	4	6	1	1	2	0	S 54° E		1·2			26		79		·726		0		0		0	1·36	−1·36	59·94	45 91	+14·00	0	Pusa.
12	0	0	7	3	1	5	3	0	S 23° E	S 8° W	1·8	1·6	+0·2	27	+ 5	61	−13	·611	−·130	0·1	−2·1	0	−3·1	0	2·62	−2·62	76·59	45·40	+31·13	0	Patna.
8	0	0	4	3	1	3	7	0	S 38° W		1·8*			36		62	−10	·539	−·141	0·3	−1·9	0	−2·6	0	2·75	−2·75	27·50	38·48	−10 98	0	Buxar.
3	0	0	1	6	1	0	1	0	S 7° W	S 9° W	1·5	2·0	−0·5	69	+37	57	−16	·505	−·183	0·5	−2·2	0	−2·8	0	1·97	−1·97	51·93	43·60	+ 8 33	0	Gaya.
31	0	0	0	0	0	0	0	0	Calm		0·5			(a)		68	−10	·664	−·061	0·7	−1·7	1	−3·0	0·77	3·22	−2·45	49·62	52·43	− 2·81	0·70	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
8	3	0	18	0	0	1	1	0	N 82° E	N 27° W	1·7	0·9	+0·8	53	+31	73	− 4	·638	−·080	0	−1·7	0	−2·5	0	3·81	−3·81	34·51	48·09	−13·58	0	Gorakhpur.
8	1	0	2	3	2	11	4	0	S 35° W	S 50° W	1·2	1·8	−0·6	46	+28	56	−18	·528	−·142	0·1	−1·8	0	−2·4	0	2·51	−2·51	30·12	37 71	− 7·59	0	Benares.
17	0	0	1	0	0	2	11	0	S 83° W	N 86° W	1·3	2·3	−1·0	37	+12	50	−18	·462	−·163	0·2	−1·8	0	−1·9	0	2·46	−2·46	25·49	36·40	−10·91	0	Allahabad.
15	0	0	0	3	0	3	7	3	S 77° W	S 76° W	1·4	1·5	−0·1	30	+ 1	49	−26	·423	−·145	0	−1·0	0	−1·4	0	1·25	−1·25	16·27	33·53	−17 26	0	Cawnpore.
31	0	0	0	0	0	0	0	0	Calm	N 58° W	1·1	1·3	−0·2	(a)						0	−1·2	0	−1·6	0	1·15	−1·15	27·14	35·91	− 8·77	0	Lucknow.
23	2	0	5	0	1	0	0	0	N 79° E	N 77° E	1·4	1·2	+0·2	17	+ 7	65	−11	·571	−·120	0	−1·0	0	−1·5	0	1·53	−1·53	36·66	41 76	− 5·10	0	Bahraich.
7	0	1	0	0	1	15	5	2	S 60° W	S 70° W	2·2	1·8	+0·4	59	+16	40	−16	·385	−·150	0·2	−0·7	0	−0·9	0	0·73	−0·73	14·41	33·99	−19·58	0	Jhansi.
26	1	0	1	0	0	1	2	0	N 79° W	N 68° W	0·8	2·3	−1·5	5	−35	39	−18	·378	−·120	0·2	−0·6	0	−0·7	0	0·78	−0·78	11·67	24·65	−12·78	0	Agra.
14	2	2	3	3	0	0	3	4	N 10° E	N 83° W	1·0	0·7	+0·3	13	− 3	49	−16	·410	−·128	0·3	−0·8	0	−0·8	0	1·28	−1·28	11·07	24·60	−13·53	0	Mainpuri.
30	0	0	1	0	0	0	0	0	E	N 15° W	0·1	0·9	−0·8	3	− 3	66	−10	·539	−·070	0·1	−0·7	0	−0·8	0	1·22	−1·22	18·85	40·78	−21·93	0	Bareilly.
23	0	0	3	0	0	0	0	0	S 45° E	S 58° E	1·2	0·9	+0·3	10	+ 4	61	−14	·425	−·102	0·4	−0·2	0	−0·7	0	0·53	−0·54	23·79	36·89	−13 10	0	Roorkee.

(a) Indeterminate.

*Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab.																					
11	Delhi	718	29·212	+·038	29·909	29·353	28th	29·103	1st	73·7	60·3	93·7	+1·9	69·1	+0·9	81·4	+1·4	24·6	97·7	6th	61·8	25th
	Hissar	725	29·218	+·054	29·925	29·366	28th	29·113	1st	72·1	60·4	96·4	+0·4	61·5	−1·7	78·9	−0·7	34·9	100·8	6th	56·0	25th
	Patiala	*818*	29·096	+·024	29·902	29·259	28th	28·922	26th	71·0	60·6	93·1	+1·6	62·2	−0·3	77·7	+0·7	30·9	97·8	24th	55·2	29th
	Ambala	892	29·031	+·040	29·912	29·197	28th	28·905	1st	71·3	59·9	95·1	+2·9	60·5	−0·3	77·8	+1·3	34·6	98·7	2nd, 6th & 7th.	53·1	29th
	Ludhiana*	812	29·105	+·032	29·504	29·177	8th	29·006	1st	72·4	61·1	94·2†	+1·6†	64·8	0	79·5†	+0·8†	29·4	98·5	6th	58·8	25th
	Lahore	702	29·214	+·037	29·908	29·377	28th	29·091	1st	69·4	60·6	94·9	0	60·5	+0·2	77·7	+0·1	34·4	98·8	5th, 6th & 18th.	53·6	29th
	Sialkot	830	29·087	+·033	29·914	29·253	28th	28·977	1st	68·9	60·3	91·4	−1·1	58·8	−3·7P	55·1	−2·4P	32·6	95·1	6th	52·5	26th
	Rawalpindi	1,674	28·275	+·045	29·946	28·418	28th	28·161	3rd	69·7	57·8	89·9	+1·3	55·7	−0·8	72·8	+0·3	34·2	93·9	19th	48·4	28th
12	Khushab	612	29·320	+·031	29·917	29·481	28th	29·208	1st	73·5	60·4	94·6	+0·5	61·9	−1·6	78·2	−0·5	32·7	100·0	25th	54·2	28th
	Lyallpur‡	605	29·314		29·903	29·465	28th	29·192	4th	72·3	61·7	94·0		60·3		77·1		33·7	98·0	5th	55·0	28th
	Montgomery	558	29·359	+·032	29·898	29·508	28th	29·245	3rd	74·2	60·7	96·3	0	62·2	−0·8	79·2	−0·4	34·1	100·7	5th	56·9	22nd
	Multan	426	29·496	+·042	29·893	29·642	28th	29·357	3rd	75·8	63·6	96·9	+1·0	66·9	+1·8	81·9	+1·4	30·0	100·6	5th	59·9	27th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·840	+·033	29·969	28·979	28th	28·710	3rd	64·8	57·9	89·5	+1·3	56·8	−1·1	73·1	+0·1	32·7	94·2	3rd	48·9	27th
	D. I. Khan	590	29·341	+·031	29·921	29·453	8th	29·214	3rd	69·3	60·0	93·8	0	61·2	+0·1	77·5	+0·1	32·6	99·0	25th	56·0	29th
	VIII.—Sind.																					
16	Jacobabad	186	29·749	+·040	29·898	29·891	28th	29·636	3rd	76·8	62·3	100·9	+1·7	64·2	+1·0	82·5	+1·3	36·7	104·5	19th	56·3	21st
	Hyderabad	96	29·843	+·034	29·892	29·980	28th	29·753	1st	76·8	66·8	99·7	+1·6	68·7	−1·4	84·2	+0·2	31·0	106·1	25th	62·0	30th
	Karachi	13	29·957	+·039	29·922	30·059	28th	29·847	26th	77·4	71·8	87·5	+0·9	72·9	−0·1	80·2	+0·4	14·6	97·5	10th	67·6	8th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·160	+·035	29·903	29·272	28th	29·039	26th	77·5	65·7	98·7	+2·6	68·9	−2·5P	83·7	+0·1P	29·8	102·0	26th	61·9	30th
	Jodhpur	780	29·175	+·034	29·972	29·364	28th	29·053	26th	77·4	60·2	98·7	+1·8	65·8	−1·7	82·2	+0·1	32·9	101·5	26th	58·6	27th
18	Jaipur	1,431	28·537	+·039	29·932	28·625	28th	28·445	1st	77·3	61·7	96·7	+2·1	65·5	+0·7	81·1	+1·4	31·2	99·5	6th & 7th.	59·4	13th
	Ajmer	1,611	28·351	+·027	29·941	28·441	28th	28·243	26th	70·6	58·5	94·6	+2·7	64·7	+0·5	79·6	+1·6	29·9	97·0	6th	56·5	27th
	Kotah‡	832	29·117	+·031	29·904	29·192	10th & 28th.	29·020	26th	83·1	64·3	98·8	+3·8	70·0P	−0·3P	84·4P	+1·7P	28·8P	101·6	6th & 20th.	62·6	28th
	X.—Bombay.																					
19	Deesa	466	29·503	+·036	29·930	29·567	28th	29·400	26th	76·2	65·0	99·2	+1·7	64·7	−2·3	82·0	−0·3	34·5	102·1	24th	58·8	30th
	Bhuj	334	29·629	+·032	29·916	29·707	28th	29·526	26th	80·3	69·2	98·7	+2·6	67·9	−3·0	83·3	−0·2	30·8	103·0	26th	61·7	29th
	Jamnagar	61	29·902	+·017	29·909	29·984	28th	29·828	15th	80·5	73·2	96·9	+3·1	68·6	−2·2	82·7	+0·5	28·3	100·9	24th	64·2	29th
	Dwarka	37	29·946	+·026	29·932	30·022	28th	29·875	26th	79·6	75·0	86·6‡	0	74·3§	−1·1	80·5§	−0·5	12·3	94·6	24th	63·7	27th
	Rajkot	429	29·527	+·019	29·907	29·586	28th	29·435	26th	79·0	68·2	100·0	+4·4	66·7	−1·5	83·4	+1·5	33·3	102·6	12th	62·5	6th
	Veraval	*18*	29·941	+·023	29·902	29·998	6th	29·859	26th	78·4	68·8	89·8	+0·9	71·7	−0·7	80·7	+0·1	18·1	100·3	25th	65·6	31st
	Bhavnagar Parat	55	29·910	+·030	29·911	29·964	28th	29·817	26th	81·1	68·1	99·3	+2·8	70·9	+0·9	85·1	+1·9	28·4	102·0	10th12th & 26th.	64·2	30th
	Surat	39	29·929	+·029	29·911	29·986	28th	29·856	26th	80·8	71·1	99·3	+5·6	70·5	−0·7	84·9	+2·5	28·8	103·1	11th	66·3	30th
	Ahmadabad	163	29·812	+·038	29·924	29·870	28th	29·720	26th	82·2	68·5	102·7	+5·5	70·7	−1·7	86·7	+1·9	32·0	106·1	24th	64·2	31st
25	Bombay	37	29·929	+·030	29·906	29·991	28th	29·857	26th	79·7	75·5	89·4	+1·6	77·2	+0·5	83·3	+1·1	12·2	93·2	17th	74·9	31st
	Ratnagiri	207	29·752	+·038	29·898	29·806	28th	29·695	26th	82·9	74·1	89·9	+1·7	75·3	+1·3	82·6	+1·5	14·6	97·9	30th	68·7	31st
	Marmagao	*60*	29·905	+·032	29·900	29·958	28th	29·848	26th	79·1	76·7	86·7	+1·0						89·3	23rd		
	Karwar	44	29·919	+·033	29·898	29·983	28th	29·875	26th	76·3	74·8	88·0	+2·6	74·1	+0·5	81·1	+1·5	13·9	93·4	30th	68·5	30th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 23 days.
† „ „ 22 „
‡ „ „ 30 „
§ „ „ 29 „

B—*continued.*

in India, etc., in October, 1918—*continued.*

Wind Direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
21	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	54	55
																															VI.—Punjab.
7	0	0	3	3	1	0	10	7	N 78° W	N 83° W	2·2	1·7	+0·5	33	+ 1	42	—10	·348	—·096	0·4	—0·3	0	—0·3	0	0·30	—0·30	11·32	23·99	—12·67	0	Delhi.
0	2	1	5	4	5	8	4	2	S 15° W	S 31° W	3·4	2·5	+0·9	30	+ 8	47	— 5	·373	—·058	0·9	+0·4	0	—0·4	0·09	0·13	—0·04	6·77	11·80	—5·03	0·09	Hissar.
5	4	1	5	7	0	0	3	6	N 37° E		3·3			16		53	—11	·430	—·114	0·9	+0·4	0	—0·6	0	0·28	—0·28	13·98	20·51	—6·53	0	Patiala.
9	6	0	8	6	1	0	0	1	N 82° E	N 10° W	2·5	0·8	+1·7	37	+33	48	—21?	·367	—·143	1·2	+0·7	0	—0·4	0	0·25	—0·25	9·44	24·78	—15·34	0	Ambala.
21	0	0	0	1	0	0	1	0	S 23° W	S 55° E	0·8*	0·8	0	2	— 9	49	—12	·388	—·079	0·3	—0·5	0	—0·4	0	0·35	—0·35	10·67	22·68	—12·01	0	Ludhiana.
21	1	1	3	1	1	1	2	0	S 66° E	S 83° E	0·9	1·2	—0·3	7	— 5	58	— 3	·416	—·052	0·2	—0·3	0	—0·4	0	0·24	—0·24	6·97	15·65	—8·68	0	Lahore.
13	3	5	6	2	0	0	1	1	N 57° E	N 54° E	1·0	1·0	0	37	+ 5	58	— 2	·409	—·040	0·6	—0·2	0	—0·6	0	0·25	—0·25	12·04	23·56	—11·52	0	Sialkot.
17	3	2	1	1	1	0	3	3	N 23° W	N 5° W	1·4	1·0	+0·4	20	+ 6	46	—12?	·337	—·052	1·2	+0·2	0	—1·1	0·07	0·53	—0·46	14·46	23·60	—9·14	0·07	Rawalpindi.
19	1	5	6	0	0	0	0	0	N 65° E	N 48° E	2·2	2·8	—0·6	33	—10	43	— 3	·356	—·023	0·7	+0·3	1	+0·8	0·52	0·12	+0·40	4·85	10·30	—5·45	0·17	Khushab.
12	0	3	2	6	4	2	0	1	S 43° E		1·3†			30		52		·411		1·1		1	+0·8	0·26	0·18	+0·08	6·76	10·21	—3·45	0·26	Lyallpur.
7	2	1	4	9	4	3	1	0	S 39° E	S 41° E	3·2	3·0	+0·2	43	+ 7	42	— 1	·353	—·035	0·5	0	0	0	0	0·07	—0·07	4·27	8·13	—3·86	0	Montgomery.
27	0	1	0	2	0	1	0	0	S 45° E	S 40° E	0·7	1·1	—0·4	3	—18	48	— 8	·423	—·042	0·5	+0·2	0	—0·1	0	0·03	—0·03	1·41	5·14	—3·73	0	Multan.
																															VII.—North-West Frontier Province.
31	0	0	0	0	0	0	0	0	Calm	S 40° W	0·3	1·7	—1·4	*a*		64	+ 5?	·398	—·007	0·8	—0·3	0	—0·4	0·09	0·18	—0·09	2·47	5·49	—3·02	0·06	Peshawar.
28	0	2	0	0	0	0	0	1	N 18° E	N 34° E	1·4	0·8	+0·6	7	—18	56	— 3	·397	—·041	0·1	—0·3	0	—0·1	0·08	0·10	—0·02	1·68	5·86	—4·18	0·08	D. I. Khan.
																															VIII.—Sind.
21	0	0	3	3	2	0	0	2	S 53° E	N 41° E	2·8	1·5	+1·3	17	+ 6	40	—16	·368	—·113	0·3	—0·1	0	0	0	0·05	—0·05	0	2·35	—2·35	0	Jacobabad.
10	5	1	0	0	4	11	0	0	S 49° W	S 56° W	3·6	6·3	—2·7	30	+ 1	57	+ 1	·521	—·013	0	—0·5	0	0	0	0·01	—0·01	1·26	6·17	—4·91	0	Hyderabad.
4	7	5	0	0	0	2	11	2	N 44° W	N 50° W	7·2	6·9	+0·3	49	+20	76	+ 3	·703	—·033	1·0	—0·6	0	0	0	0	0	0·10	5·97	—5·87	0	Karachi.
																															IX.—Rajputana.
2	0	2	2	5	4	7	3	0	S 5° W	S 48° W	3·3	3·6	—0·3	37	—10	51	+ 3	·467	+·005?	0·4	—0·3	0	∓0·3	0	0·15	—0·15	1·70	9·73	—8·03	0	Bikaner.
18	0	9	0	0	0	3	1	0	N 37° E		1·4			17		31	—12	·292	—·110	0·6	—0·5	0	—0·2	0	0·20	—0·20	1·49	11·81	—10·32	0	Jodhpur.
7	4	2	9	1	0	0	3	10	N 19° W	N 42° W	2·4	2·3	+0·1	43	— 4	37	—12	·347	—·104	0·7	—0·5	0	—0·5	0	0·25	—0·25	8·48	21·52	—13·44	0	Jaipur.
29	1	0	1	0	0	2	3	1	N 86° W	S 82° W	1·2	2·0	—0·8	13	—16	46	—14	·346	—·134	0·1	—1·0	0	—0·5	0	0·26	—0·26	5·63	18·69	—13·06	0	Ajmer.
9	0	1	0	0	0	2	0	3	N 63° W		0·8†			10		32	—15	·360	—·103	0·5	—0·5	0	—0·4	0	0·36	—0·36	14·92	25·05	—10·13	0	Kotah.
																															X.—Bombay.
2	0	12	5	2	0	0	2	3	N 50° E	S 77° E	3·9	4·8	—0·9	46	+10	52	+ 1	·469	—·036	0	—1·1	0	—0·3	0	0·30	—0·30	15·51	23·02	—7·51	0	Deesa.
5	0	1	0	0	0	13	0		N 67° W	N 62° W	3·3	5·0	—1·7	43	— 6	55	— 7	·570	—·061	0·1	—1·3	0	—0·4	0	0·24	—0·24	2·77	13·80	—11·03	0	Bhuj.
1	0	0	0	1	6	16	5		S 85° W		5·1			25		70	+ 4	·719	+·020?	0	—1·1	0	0	0	0·13	—0·13	3·36	18·07	—14·71	0	Jamnagar.
6	3	0	0	1	4	7	9		N 53° W		3·9			56		80	+ 2	·808	—·009	0·9	—1·1	0	—0·1	0	0·07	—0·07	1·02	13·67	—12·65	0	Dwarka.
6	3	0	0	1	1	9	6		N 48° W	N 5° W	4·6	4·2	+0·4	53	+14	57	— 9	·550	—·098	0·9	—0·6	0	—1·0	0	0·36	—0·36	9·67	25·55	—15·88	0	Rajkot.
13	0	0	0	0	0	0	8		N 17° W	N 2° E	4·7	4·5	+0·2	66	+ 1	61	— 7	·583	—·099	0·7	—1·3	0	—0·5	0	0·33	—0·33	6·10	17·81	—11·71	0	Veraval.
3	4	1	1	1	1	4	11		N 35° W	N 73° W	3·7	5·0	—1·3	46	+ 1	49	—12	·521	—·101	0·5	—1·4	0	—0·4	0	0·27	—0·27	6·54	21·80	—15·26	0	Bhavnagar Para.
2	4	4	6	2	0	1	0		S 82° E	N 53° E	1·5	3·2	—1·7	33	+15	60	—10	·631	—·079	1·1	—0·6	0	—1·9	0	1·39	—1·39	16·31	40·53	—24·22	0	Surat.
2	6	1	2	0	1	0	8		N 2° E	N 8° E	2·0	2·4	—0·4	31	— 2	48	— 8	·517	—·052	0·1	—1·4	0	—0·5	0	0·37	—0·37	8·43	28·74	—20·31	0	Ahmadabad.
2	6	17	6	0	0	0	0		N 85° E	N 81° E	4·9	6·6	—1·7	82	+14	82	0	·828	—·013	2·2	—1·4	0	—2·5	0	1·75	—1·75	33·99	70·44	—36·45	0	Bombay.
9	2	4	6	8	0	2	2		S 49° E	S 68° E	5·2	4·5	+0·7	27	—13	65	—13	·728	—·072	1·7	—1·9	2	—2·7	0·31	3·47	—3·16	64·36	99·25	—34·89	0·18	Ratnagiri.
4	11	5	0	0	0	0	3		N 38° E	S 67° E	3·4	4·5	—1·1	59	+30	89	— 1	·892	+·005	4·5	—0·1	0	—6·0	0·04	3·79	—3·75	89·23	91·86	—2·63	0·02	Marmagao.
4	0	0	0	2	1	0	2		N 38° W	N 48° E	1·3	1·8	—0·5	13	—34	93	+ 4	·848	+·030	2·6	—1·5	1	—6·1	0·44	5·61	—5·17	94·87	118·08	—23·21	0·23	Karwar.

* Mean of 21 days. † Mean of 29 days. *a* Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay—*concld.*																					
2[illegible]	Malegaon	1,430	28·547	+·037	29·924	28·611	28th	28·476	26th	79·1	62·9	98·4	+7·1	65·1	−0·6	81·7	+3·3	33·3	100·9	9th	5[illegible]·5	26th
	Ahmadnagar	2,154	27·810	+·035	29·898	27·914	28th	27·773	26th	79·0	63·2	93·8	+5·1	64·3	−0·8	79·0	+2·1	29·5	96·3	25th	58·2	30th
	Poona	1,846	28·126	+·029	29·912	28·190	28th	28·052	26 h	75·4	66·2	95·1	+6·1P	66·2*	−0·2	85·7*	+2·9P	28·9	98·0	28th	58·3	30th
	Sholapur	1,598	28·369	+·033	29·886	28·439	28th	28·312	26th	80·1	64·6	95·0	+4·6	68·8	+0·4	81·9	+2·5	26·2	97·2	25 h	61·0	29th
	Bijapur	*1,948*	28·053	+·050	29·893	28·092	28th	27·978	1st	79·6	66·4	92·4	+3·5	63·1	−0·3	80·2	+1·6	24·3	94·8	12th	59·1	30th
	Belgaum	2,562	27·435	+·051	29·916	27·595	28th	27·357	1st & 26th.	73·2	66·3	87·8	+4·6	64·2	−0·9	75·9	+1·9	23·6	91·1	25th	56·7	31st
	XI.—Central India.																					
20	Neemuch	1,526	28·350	+·034	29·916	28·420	28th	28·258	26th	80·2	63·9	95·0	+3·9	63·0	−1·4	79·0	+1·3	32·0	98·1	27th	56·8	31st
	Indore	1,823	28·157	+·037	29·908	28·218	26th	28·083	25th	81·2	69·6	94·6	+6·1	62·3	−1·0	78·5	+2·5	32·3	96·8	27th	57·8	25th
21	Nowgong	754	29·191	+·035	29·920	29·308	28th	29·103	1st	72·5	61·1	96·6	+6·6P	63·1	−2·0	79·8	+2·3P	33·5	100·4	7th	57·5	17th
	Sutna	1,541	28·914	+·054	29·928	29·026	28th	28·815	1st	74·1	63·2	91·8	+3·8	62·9	−2·8	77·4	+0·5	28·9	94·0	7th	58·3	24th
	XII.—Central Provinces.																					
22	Buldana	2,134								79·2	63·0	92·5	+6·6	65·7	−2·3	79·1	+2·1	26·8	94·8	10th	60·2	19th
	Akola	925	28·056	+·050	29·934	29·141	28th	28·940	1st	79·9	64·4	96·4	+6·5	65·9	−0·1	82·1	+3·2	32·5	101·9	10th	59·0	31st
	Amraoti	1,215	28·762	+·049	29·921	28·633	28th	28·685	1st	82·1	64·7	95·9	+5·1	68·7	+0·9P	82·3	+2·8P	27·2	99·3	10th	63·5	26th
23	Khandwa	1,041	28·926	+·040	29·928	29·005	28th	28·855	26th	77·8	63·0	99·0	+6·1	65·0	−1·0	81·5	+2·5	33·0	101·4	8th	59·1	25th & 26th.
	Hoshangabad	1,006	28·974	+·047	29·949	29·060	28th	28·886	26th	73·2	65·8	91·1	+4·5	63·5	−2·7	73·8	+0·9	30·6	95·9	7th & 26th.	58·2	25th
	Saugor	1,807	28·155	+·030	29·906	28·240	28th	28·068	26th	77·4	60·0	93·7	+5·8	67·4	+1·3P	80·5	+3·5P	26·3	96·6	9th	53·2	18th
	Jubbulpore	1,327	28·632	+·043	29·937	28·727	28th	28·550	1st	69·9	61·4	90·8	+3·5	60·9	−2·8	75·8	+0·3	29·8	92·6	27th	54·8	28th
	Seoni	2,033	27·959	+·060	29·933	28·053	28th	27·882	1st	75·7	62·3	89·3	+2·6	62·6	−1·3	75·9	+0·7	26·7	92·0	9th	57·1	29th
	Nagpur	1,017	28·966	+·064	29·940	29·050	28th	28·874	1st	76·0	63·4	91·1	+3·7	61·1	−4·0	79·1	−0·1	30·0	97·2	1st	58·3	29th & 31st.
24	Pendra	2,040	27·955	+·068P	27·936	28·064	28th	27·860	1st	75·6	62·3	88·8	+4·2	62·2	−2·4	75·5	+0·9	26·6	91·7	1st	57·8	31st
	Raipur	970	28·931	+·048	29·920	29·060	28th	28·912	1st	76·0	66·4	92·3	+4·1	66·2	−3·3	79·2	+0·4	26·1	94·9	6th	61·2	29th
	Chanda	*634*	29·330	+·037	29·919	29·415	28th	29·244	1st	76·2	67·8	93·0	+3·0	62·8	−5·2	77·9	−1·1	30·2	94·9	11th	55·0	29th
	Jagdalpur	1,813	28·158		29·823	28·231	28th	28·091	1st	72·4	60·6	87·9		63·0		75·4		24·9	92·8	1st	56·2	27th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·091	+·042	29·911	28·164	28th	28·030	26th	80·7	63·3	94·4	+4·3	67·3	+1·2P	80·9	+2·7P	27·1	97·0	19th	60·7	26th
	Nizamabad	1,218	28·715		29·807	28·794	28th	28·630	1st	78·8	66·3	94·3	+5·5	64·0	−4·1P	79·2	+0·7	30·3	97·3	11th	54·7	29th
	Bidar	*2,165*								78·1	66·8	90·3	+4·0	51·0P	−16·2	70·6P	−6·1P	39·3P	95·0	26th & 27th.	46·9	29th, 30th & 31st.
28	Gulbarga	1,503	28·475	+·050	29·913	28·518	28th	28·404	1st	78·7	66·0	95·7	+5·1	68·1	−0·9	81·9	+2·1	27·6	98·2	11th	61·7	30th
	Raichur	*1,311*	28·647	+·049	29·893	28·724	28th	28·592	1st	80·2	69·6	93·8	+3·8	73·0	+0·8	83·4	+2·3	20·8	95·3	20th	65·3	30th
	Hyderabad (Deccan)	1,738	28·266	+·063	29·916	28·369	28th	28·196	1st	77·8	67·9	90·9	+2·5	68·1	−1·0	79·5	+0·7	22·8	93·2	9th & 11th.	59·5	30th
	Hanamkonda	877	29·093	+·058	29·913	29·163	28th	29·013	1st	81·8	69·5	94·8	+5·0	70·5	−0·6	82·7	+2·2	24·3	100·0	2nd	66·0	29th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·573	+·036	29·874	27·638	28th	27·533	1st	76·2	67·9	88·9	+4·0	68·7	+0·8	78·8	+2·4	20·2	91·4	27th	63·4	27th
	Hassan	3,149	26·875	+·041	29·879	26·931	28th	26·834	26th	72·8	67·7	85·4	+3·7	65·0	+0·9	75·2	+2·3	20·4	87·7	17th & 31st.	59·1	25th
	Bangalore	3,021	26·998	+·039	29·881	27·053	28th	26·960	1st	73·5	67·1	86·4	+4·5	65·3	+0·2	75·9	+2·3	21·1	88·7	17th	58·4	29th
	Mysore	2,518	27·476	+·034	29·882	27·531	28th	27·440	4th	75·3	69·3	87·0	+2·6	67·7	+0·8	77·3	+1·7	19·3	90·0	5th	61·5	25th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.

B—*continued.*

in India, etc., in October, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfa during month.	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	54	55
																															X.—Bombay —*contd.*
7	1	0	1	0	3	11	7	1	S 58° W	N 61° W	3·5	4·2	−0·7	53	+14	37	−23	·373	−·178	0·9	−1·6	1	−1·6	0·71	1·85	−1·14	8·45	21·37	−12·92	0·71	Malegaon.
20	2	0	0	3	4	0	0	2	S 15° E	N 36° E	3·5	5·8	−2·3	10	−22	39	−23	·386	−·171	0·4	−2·2	2	−1·0	1·11	1·89	−0·78	11·89	20·46	−8·57	0·64	Ahmadnagar.
19	1	2	2	1	0	1	2	3	N 13° W	S 69° E	3·9	4·6	−0·7	10	+ 3	59	−12	·532	−·039	1·7	−2·0	3	−2·1	1·58	3·68	−2·10	9·15	25·44	−16·29	1·28	Poona.
5	2	3	3	14	0	1	1	2	S 67° E	N 68° E	6·8	6·0	+0·8	43	+20	41	−20	·418	−·147	1·2	−3·0	0	−4·5	0	3·17	−3·17	13·84	26·27	−12·93	0	Sholapur.
7	0	5	1	13	0	2	0	3	S 6.° E	N 77° W	2·1	2·9	−0·8	37	+29	48	−22	·489	−·150	1·2	−2·3	0	−2·5	0	2·95	−2·95	9·20	18·17	−8·97	0	Bijapur.
24	3	0	3	1	0	0	0	0	N 58° E	N 53° E	2·6	7·0	−4·4	13	− 5	70	− 8	·565	−·056	2·7	−1·8	2	−5·8	0·28	4·73	−4·45	23·25	46·98	−23·73	0·16	Belgaum.
																															XI.—Central India.
22	2	0	0	0	4	0	6	0	N 81° W	N 2° E	3·5	4·4	−0·9	20	+ 2	38	−13	·393	−·070	0·2	−1·1	0	−0·7	0	0·35	−0·35	19·12	27·06	−7·94	0	Neemuch.
23	0	0	0	5	2	0	0	0	S 33° E	N 1.° E	0·7	1·6	−0·9	20	− 5	54	− 8	·575	+·033P	0·2	−1·3	0	−1·9	0·03	1·06	−1·03	16·13	31·18	−15·05	0·12	Indore.
11	0	0	1	1	1	13	1	3	S 50° W	S 67° W	1·4	1·1	+0·3	46	+21	48	−21	·389	−·176	0·4	−1·6	0	−1·5	0	1·06	−1·06	12·43	40·18	−27·95	0	Nowgong.
24	0	0	1	0	1	1	4	0	S 64° W	N 27° W	1·0	2·8	−1·7	13	−36	52	−16	·443	−·140	0·2	−2·1	0	−2·2	0	2·14	−2·14	28·40	41·25	−12·85	0	Sutna.
																															XII.—Central Provinces.
0	0	0	5	7	5	5	5	3	S 10° W		3·8	3·8	0	36		38		·374		1·8		0	−2·8	0·09	2·16	−2·07	19·82	32·41	−12·59	0·07	Buldana.
8	0	3	8	6	3	2	1	2	S 64° E	N 53° E	2·9	2·6	+0·3	40	+22	39	−23	·399	−·162	1·8	−0·9	1	−1·0	0·13	1·89	−1·76	13·03	29·73	−16·70	0·13	Akola.
27	0	1	2	0	0	0	1	0	N 66° E	N 63° E	2·0	2·8	−0·8	7	−25	35	−23	·386	−·157	0·8	−1·9	0	−2·5	0·12	1·76	−1·64	20·71	31·10	−10·39	0·07	Amraoti.
3	0	1	4	6	9	4	3	1	S 10° E	N 2° E	2·7	2·3	+0·4	49	+38	43	−18	·410	−·124	1·1	−0·9	0	−1·9	0	1·04	−1·04	13·30	28·13	−14·73	0	Khandwa.
0	0	0	0	0	0	1	0	0	S 45° W	N 79° E	0·7	1·2	−0·5	3	−15	57	−11	·470	−·112	0·8	−1·1	0	−2·0	0	1·24	−1·24	26·06	46·22	−20·16	0	Hoshangabad.
6	1	0	0	4	0	10	8	2	S 61° W	S 27° W	2·8	2·3	+0·5	49	+35	32	−24	·302	−·185	0·6	−1·1	0	−1·8	0	0·93	−0·93	31·52	42·27	−10·75	0	Saugor.
8	0	0	3	14	6	2	0	0	S 33° E	S 27° E	1·0	1·4	−0·4	66	+30	60	−15	·440	−·158	0·5	−1·4	0	−2·2	0	1·62	−1·62	37·63	51·84	−14·21	0	Jubbulpore.
30	0	1	0	0	0	0	0	0	N 45° E	N 9° E	0·7	2·0	−1·3	3	−20	44	−19	·394	−·141	0·8	−1·4	0	−2·9	0	1·79	−1·79	43·44	48·78	−5·34	0	Seoni.
4	12	6	3	0	0	0	1	5	N 8° E	N 7° E	2·2	2·8	−0·6	66	+37	50	−14	·449	−·132	0·9	−1·9	1	−1·8	0·38	1·84	−1·46	29·99	45·87	−15·88	0·38	Nagpur.
18	1	2	2	0	0	5	0	3	N 65° W		2·7			7		45	−19	·400	−·128	0·7	−2·0	0	−2·9	0	2·43	−2·43	36·15	43·45	−7·30	0	Pendra.
11	1	2	2	2	1	5	2	5	W	N 27° E	1·2	2·8	−1·6	14	− 4	58	−15	·529	−·124	0·8	−2·2	0	−3·3	0	2·04	−2·04	63·42	47·05	+16·37	0	Raipur.
7	4	10	2	3	0	0	1	7	N 11° E	N 14° E	1·8	1·7	+0·1	53	+35	63	−10	·577	−·099	1·2	−1·5	0	−2·6	0	1·64	−1·61	37·80	49·09	−11·29	0	Chanda.
28	0	1	1	0	0	0	1	0	N 45° E		1·2			3		73		·589		1·0		1		0·62	4·01	−3·39	56·33	57·01	−0·65	0·62	Jagdalpur.
																															XIII.—Hyderabad.
7	1	3	14	5	0	0	1	0	S 89° E		4·4			60		35	−20	·366	−·172	1·2	−1·6	1	−1·6	0·65	1·61	−0·95	18·55	25·90	−12·35	0·59	Aurangabad.
27	0	5	4	0	1	1	0	0	N 75° E		2·1			23		49	−23	·482	−·204P	0·8	−2·3	0	−2·5	0	1·65	−1·65	23·84	38·03	−14·19	0	Nizamabad.
0	0	5	1	18	2	2	0	3	S 52° E		2·7			57		54	−16	·523	−·113	0·2	−2·5	0	−3·6	0	2·72	−2·72	32·73	33·53	−0·80	0	Bidar.
4	3	5	12	2	2	1	1	1	N 78° E	N 72° E	5·2	6·1	−0·9	49	+26	49	−19	·487	−·147	0·6	−2·7	0	−3·6	0·06	2·89	−2·83	15·33	28·80	−13·47	0·06	Gulbarga.
0	2	10	4	7	5	2	0	1	S 83° E	S 75° E	5·0	5·3	−0·3	46	+40	57	−10	·588	−·066	1·7	−1·8	0	−3·6	0	3·08	−3·08	21·12	25·33	−4·21	0	Raichur.
28	0	1	0	1	0	0	1	0	E	S 68° E	2·5	2·8	−0·3	1	− 7	58	−15	·559	−·089	1·2	−2·7	0	−4·5	0·10	3·01	−2·91	17·16	28·53	−11·37	0·07	Hyderabad (Deccan).
7	3	0	0	7	8	0	2	4	S 1° E		2·3			23		51	−18	·561	−·116	1·1	−2·4	0	−3·2	0	1·81	−1·81	18·14	31·69	−13·55	0	Hanamkonda.
																															XIV.—Mysore.
9	0	1	4	3	0	4	7	3	S 67° W	S 45° W	2·3	4·1	−1·8	17	+ 3	65	−11	·580	−·063	2·0	−3·5	2	−4·8	0·69	4·41	−3·72	6·69	20·92	−14·23	0·40	Chitaldrug.
20	1	0	4	2	0	0	1	3	N 45° E	N 53° E	3·1	1·8	+1·3	10	−13	77	− 5	·624	−·007	2·9	−3·8	6	−3·7	1·99	7·13	−5·14	11·47	29·43	−17·96	0·65	Hassan.
2	0	1	9	5	4	8	2	0	S 25° E	N 1° E	4·0	3·4	+0·6	46	+43	71	−11	·586	−·042	2·1	−4·0	4	−5·4	1·05	6·18	−5·13	21·59	29·66	−8·07	0·59	Bangalore.
6	0	1	5	4	4	4	5	2	S 5° W	S 72° W	3·5	5·3	−1·8	23	+ 5	73	−10	·642	−·015	3·6	−3·6	6	−3·5	3·79	6·66	−2·89	16·63	25·67	−9·04	1·75	Mysore.

* Mean of 27 days.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between and maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·895	+·024	29·898	29·942	28th	29·848	4th	81·1	76·5	88·1	+2·4	75·4	+1·4	81·7	+1·9	12·7	91·5	24th	72·3	29th
	Calicut	27	29·932	+·025	29·888	29·981	9th	29·884	4th	79·6	76·8	87·0	+0·9	75·7	+1·0	81·4	+0·9	11·3	89·8	29th	74·1	19th & 21st.
	Cochin	9	29·953	+·026	29·895	30·004	9th	29·920	4th & 21st.	81·2	76·3	88·3	+1·7	76·0	+1·3	82·1	+1·5	12·3	92·4	29th	73·0	13th
	Trivandrum	198	29·768	+·029	29·897	29·812	9, 10 & 28th	29·722	21st	78·3	75·3	84·7	+1·9	74·7	−0·3	79·7	+0·8	10·0	86·6	9th	73·0	7th & 13th.
31	Pamban	37	29·903	+·022	29·868	29·956	28th	29·862	1st	81·0	77·2	86·8	−1·0	79·0	+1·8	82·9	+0·4	7·8	88·2	13th & 14th	76·0	15th
	Madura	447	29·503	+·032	29·882	29·555	28th	29·461	4th	81·9	76·1	94·7	+3·6	76·2	+2·2?	85·5	+2·9?	18·5	100·0	1st	73·7	11th
	Pudukkottai	318	29·642	+·047	29·893	29·687	28th	29·597	30th	81·4	73·7	95·4	+4·9	76·0	+1·6	85·7	+3·3	19·4	99·9	1st	72·0	26th
	Negapatam	31	29·923	+·039	29·883	29·972	28th	29·873	30th	82·4	76·4			77·2	+1·0						71·9	28th
	Trichinopoly	255	29·714	+·051	29·901	29·775	28th	29·668	30th	83·3	75·9	96·5	+5·4	75·5	+1·2	86·0	+3·3	21·0	100·8	1st	70·1	26th
	Coimbatore	1,341	28·628	+·046	29·902	28·687	8th	28·581	1st	78·3	73·3	91·8	+3·7	70·8	+0·2	81·3	+1·9	21·0	97·5	5th	67·0	30th
	Salem	913	29·050	+·049	29·898	29·112	28th	29·007	1st	80·0	73·2	96·5	+6·8?	73·2	+1·8	84·8	+4·3?	23·3	99·6	4th	67·2	25th & 26th.
	Cuddalore	37	29·917	+·043	29·884	29·972	28th	29·869	30th	82·3	76·7	90·8	+2·3	76·1	+1·6	83·4	+1·9	14·7	94·7	13th	69·5	26th
	Vellore	707	29·245	+·038	29·892	29·321	28th	29·194	1st	78·9	74·0	94·3	+5·1	71·7	−1·3	83·0	+1·9	22·6	98·5	31st	65·5	28th
	Madras	22	29·933	+·044	29·887	29·991	28th	29·884	30th	83·3	76·8	92·5	+3·2	74·9	−0·1	83·7	+1·5	17·6	96·4	13th	68·3	26th
32	Cuddapah	428	29·522	+·036	29·885	29·606	28th	29·455	1st	84·2	74·3	98·1	+5·5	75·6	+1·4	86·8	+3·5	22·5	101·4	13th	67·9	25th
	Bellary	1,475	28·480	+·035	29·884	28·558	28th	28·428	3rd	80·4	69·6	94·5	+4·2	71·0	−0·2	82·7	+2·0	23·5	97·5	4th	64·6	31st
	Kurnool	923	29·031	+·045	29·898	29·105	28th	28·970	1st	78·6	69·7	94·6	+3·7	71·0	0	82·8	+1·9	23·6	96·7	10th	63·2	29th
33	Nellore	66	29·883	+·043	29·884	29·926	28th	29·827	1st	82·1	77·7	94·4	+3·0	76·5	+0·7	85·5	+1·9	17·9	99·3	1st	72·1	24th
	Masulipatam	15	29·853	+·051	29·903	30·020	27th	29·892	1st	82·0	76·3	91·0	+1·9	74·7	−1·3	82·8	+0·3	16·3	95·6	1st	69·7	25th
	Cocanada	26	29·940	+·060	29·903	30·011	27th	29·871	1st	81·4	75·2	90·7	+2·6	75·3	−0·7	83·0	+0·9	15·4	94·4	12th	70·6	25th
	Waltair (Vizagapatam)	*226*	29·914	+·050	29·890	29·994	27th	29·835	1st	83·4	75·4	88·6	+3·3	77·5	−1·4	83·0	+0·9	11·1	92·5	16th	72·6	28th
	Calingapatam	19	29·939		29·896	30·030	27th	29·854	1st	78·7	74·4	91·2		73·6		82·4		17·6	95·3	2nd	65·8	26th
	Gopalpur	33	29·901	+·054	29·868	29·992	28th	29·809	1st	79·7	74·1	90·8	+3·1	74·1	−0·2	82·5	+1·5	16·7	97·0	6th	66·8	25th
	Bay Islands.																					
1	P. V. Fraser	8	29·953		29·883	30·070	23th	29·805	1st	83·5	79·0*											
	Port Blair	58	29·891	+·029	29·879	29·941	16th & 28th	29·808	26th	80·9	77·5	85·5	−1·1	76·3	−0·6	80·9	−0·9	9·2	88·4	21st	74·1	27th
	Table Island		29·854	+·034	29·878	29·928	27th	29·813	25th	81·0	77·0	84·6	−1·0	77·6	+0·2	81·1	−0·4	7·0	86·9	25th	73·1	9th
	Kashmir.																					
13	Muzaffarabad		27·580			27·686	28th	27·491	1st	65·8	55·3	81·5		54·9		69·7		29·6	90·8	17th, 18th & 25th.	48·6	12th
	Srinagar	5,204	25·021	+·038	24·992	25·141	9th	24·905	26th	49·7	45·7	69·3	−0·8	39·3	−1·8	54·3	−1·3	30·0	77·1	3rd	33·1	28th
	Gulmarg†	*8,569*	21·945		21·913	22·017	6th	21·895	3rd	43·8	39·9	53·4		33·5		43·4		19·9	59·7	4th	32·3	8th
	Dras	*10,059*	20·927	+·049	20·895	21·047	23rd	20·834	1st	33·2	33·9†	54·7	−2·7	27·3	+0·5	41·0	−1·1	27·4	59·0	4th	20·5	28th
	Leh	*11,503*	19·823	+·033	19·791	19·940	23rd	19·689	19th	38·5	33·1‡	56·3	−2·3	29·9	−0·4	43·1	−1·3	26·4	63·3	18th	22·5	28th
	Skardu	*7,505*	22·984	+·025	22·954	23·107	23rd	22·862	4th	46·7	39·6§	66·3	−0·1	40·9	−0·4	53·6	−0·3	25·4	75·4	5th	31·8	28th
	Gilgit	4,890	25·274	+·045	25·247	25·454	23rd	25·118	4th	60·9	52·5	76·3	+1·4	51·9	−0·9	64·1	+0·3	24·4	83·7	17th	44·2	28th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 29 days.
† " " 8 "
‡ " " 14 "
§ " " 28 "

B—*continued.*

in India, etc., in October, 1918—*continued.*

WIND DIRECTION. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
2	2	4	17	3	1	0	0	2	N 81° E	S 89° E	4·1	1·6	+2·5	69	+29	80	− 3	·851	+·016	4·3	(−1·3	5	− 4·8	3·87	7·51	− 3·64	93·93	121·58	−27·65	1·21	Mangalore.
14	5	5	2	3	2	0	0	0	N 59° E	N 76° E	3·1	5·4	−2·3	30	−17	88	+ 2	·878	+·035	5·1	−0·8	4	− 6·9	2·84	10·27	− 7·43	83·77	106·72	−22·95	1·2.	Calicut.
7	2	8	10	1	0	0	0	3	N 57° E	N 34° E	4·2	3·2	+1·0	53	− 1	79	− 5	·838	−·008	3·3	−2·3	9	− 5·0	6·27	13·28	− 7·01	67·12	98·28	−31·16	3 37	Cochin.
19	2	2	0	0	0	0	1	7	N 29° W	N 14° W	3·5	3·7	−0·2	33	−15	86	+ 2	·837	+·025	5·0	−1·7	9	− 2·9	7·63	10·74	− 3·11	40·01	47·93	− 7·92	2·51	Trivandrum.
1	6	2	2	8	7	0	3	2	S 50° E	S 18° W	6·5	6·3	+0·2	23	+ 1	81	− 1	·872	−·007	3·4	−1·0	9	− 0·7	4·89	9·94	− 5·05	5·89	13·20	− 7·31	1·50	Pamban.
0	8	9	4	2	1	1	1	5	N 24° E	N 14° W	3·2	1·8	+1·4	56	− 5	76	0	·821	+·039	6·0	+0·8?	5	− 5·8	2·50	8·16	− 5·66	11·16	23·56	−12·40	1·02	Madura.
11	7	5	0	0	4	0	2	2	N 1° E		3·4			26		68	−13	·727	−·078?	3·5	−2·9	5	− 4·0	1·29	6·39	− 5·10	10·11	23·67	−13·56	0·50	Pudukkottai.
5	2	2	0	1	1	9	1	10	N 79° W	N 85° W	4·4	3·4	+1·0	40	0	75	− 6	·829	−·033	4·1	−2·1	3	− 7·1	0·70	10·99	−10·29	9·66	23·20	−13·54	0·79	Negapatam.
4	3	3	3	0	1	6	7	4	N 72° W	N 77° W	2·4	2·8	−0·4	30	− 6	70	−10	·792	−·018	2·6	−3·7	4	− 5·5	0·50	7·15	− 6·25	12·08	21·52	− 9·44	0·30	Trichinopoly.
25	0	3	1	0	1	1	0	0	N 80° E	S 4° E	2·5	2·0	+0·5	8	−17	78	− 8	·755	−·014	3·3	−2·3	10	+ 0·1	4·24	6·51	− 2·27	9·25	14·66	− 5·01	1·26	Coimbatore.
15	0	7	4	0	2	2	1	0	N 77° E	S 40° W	2·8	1·8	+1·0	23	+12	71	−10	·729	−·050?	1·6	−4·2	3	− 7·2	1·38	6·79	− 5·41	14·84	31·82	−16·98	0·72	Salem.
7	3	0	0	0	3	8	2	8	W	N 69° W	5·0	1·6	+3·4	43	− 4	76	−10	·842	−·047	3·5	−1·7	3	− 7·7	0·72	11·77	−11·05	11·56	28·73	−17·17	0·32	Cuddalore.
29	0	0	0	0	0	0	0	2	N 45° W		2·8			6		79	− 2?	·777	+·003?	1·3	−3·1	1	− 6·5	0·10	6·59	− 6·49	16·61	29·98	−13·37	0·10	Vellore.
27	1	0	0	0	0	1	2	0	N 83° W	N 83° W	2·2	3·5	−1·3	9	−23	73	−10	·830	−·049	3·7	−1·6	2	− 8·6	0·44	11·58	−11·14	15·00	28·38	−13·38	0·33	Madras.
7	4	2	5	8	0	1	1	5	N 82° E	N 72° E				27	+ 5	61	−12	·717	−·047	1·1	−3·7	0	− 6·4	0·06	4·96	− 4·90	12·68	25·42	−12·74	0·06	Cuddapah.
8	2	0	3	6	1	3	4	4	S 35° W	N 62° W	2·6	3·1	−0·5	13	+ 6	57	−10	·591	−·035	2·0	−3·3	1	− 5·4	0·59	4·00	− 3·41	10·55	16·74	− 6·19	0·59	Bellary.
19	1	3	2	2	1	2	1	0	S 77° E	N 66° W	1·8			10	+ 3	62	−12	·607	−·096	1·5	−2·6	1	− 3·9	0·40	3·15	− 2·75	18·10	23·50	− 5·40	0·40	Kurnool.
6	0	1	1	3	4	0	2	5	S 41° W¶	N 68° W	2·4	3·2	−0·8	10	− 8	81	+ 1?	·879	+·017?	2·6	−4·0	0	− 8·1	0·08	8·31	− 8·23	8·77	21·08	−12·31	0·04	Nellore.
5	11	4	0	1	7	1	1	1	N 10° E	N 1° E	3·5	3·4	+0·1	20	−20	76	− 7	·833	−·050	1·5	−3·4	3	− 5·4	2·00	7·95	− 5·95	28·42	32·61	− 4·19	0·95	Masulipatam.
7	8	5	1	0	0	0	1	9	N 9° W	N 11° W	4·8	5·5	−0·7	59	− 2	73	− 6	·791	−·033	2·9	−1·6	1	− 7·2	0·13	7·68	− 7·55	22·01	30·77	− 8·76	0·13	Cocanada.
0	3	1	0	0	0	1	11	12	N 52° W	N 74° W	5·6			69	+24	68	− 4	·775	−·002	3·1	−1·9	5	− 1·7	1·32	6·26	− 4·94	20·08	30·47	−10·39	0·58	Waltair (Vizagapatam).
2	10	2	0	0	0	0	3	14	N 28° W		4·0			78		81		·796		2·3		4	− 0·8	2·19	5·45	− 3·26	30·33	37·70	− 7·37	0 86	Calingapatam.
0	15	1	0	0	0	0	0	15	N 20° W	N 23° W	4·8	5·8	−1·0	92	+17	76	− 6	·776	−·038	2·5	+0·3?	2	− 4·9	1·50	7·86	− 6·36	32·17	38·45	− 6·28	0·99	Gopalpur.
																															Bay Islands.
5	2	0	1	1	3	8	5		N 61° W					42		82‖		·927‖		4·2		1		0·22	3·59	− 3·37	33·82	33·06	+ 0·76	0·14	P. V. Fraser.
4	2	3	3	3	4	2	7		N 53° W	S 68° W	5·8	4·6	+1·2	10	− 8	85	− 4	·900	−·020	5·5	−0·9	14	− 1·4	8·93	11·06	− 2·13	103·41	94·75	+ 8·66	1·60	Port Blair.
6	1	4	4	3	0	5	4		N 5° W		8·2			12		83	− 2	·876	−·031	6·0	−1·1	9	− 1·3	8·39	6·58	+ 1·81	65·01	68·63	− 3·62	2·06	Table Island.
																															Kashmir.
0	0	0	1	9	2	0	0		S 5″ W		1·1			36		50		·308		2·7		3		1·29	2·17	− 0·88	17·89	31·07	−13·08	0·82	Muzaffarabad.
2	0	0	7	5	2	0	2		S 15° E	S 51° E	1·9	2·2	−0·3	27	+ 5	73	−13	·262	−·024	2·3	+0·2	3	+ 0·5	0·96	1·12	− 0·16	6·14	11·51	− 5·37	0·49	Srinagar.
0	0	4	0	0	0	0	0		E		3·3			50		74		·207		4·5		4		6·19			19·84*			2·85	Gulmarg.
0	0	0	0	0	0	0	0		Calm.		4·5			(a)		69†	− 1	·159†	+·005	2·5	+0·5	0	− 1·4	0·05	0·49	− 0·44	0·64	6·01	− 5·37	0·05	Dras.
2	1	0	6	1	1	0	0		S 53° E	S 83° W‖	2·5	1·5	+1·0	17	−26	56‡	+ 9	·136‡	+·023	2·8	+0·4	1	+ 0·9	0·20	0·15	+ 0·05	0·53	1·76	− 1·23	0·11	Leh.
0	0	2	0	2	0	1	0		S 21° E		1·7			7		49§	−16	·160§	−·054	2·5	−0·3	0	− 0·1	0·01	0·12	− 0·11	0·69	3·36	− 2·67	0·01	Skardu.
0	0	0	0	0	2	0	0		S 45° W		0·1			3		56	+ 9	·390	+·063	2·2	−1·2	0	− 0·6	0·04	0·26	− 0·22	1·08	2·80	− 1·72	0·04	Gilgit.

* Rainfall since 16th May 1918.

† Mean of 8 days.

‡ „ „ 14 „

§ Mean of 28 days.

‖ „ „ 29 „

¶ Wind observations for 22 days.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215 stations

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·512		25·481	25·604	23rd	25·431	3rd	63·2	49·6	83·5		51·4		67·5		32·1	86·5	5th	41·7	28th
	Quetta	5,502	24·767	+·027	24·722	24·860	28th	24·666	1st	43·2	38·0*	77·1	+1·8	38·1	−0·8	57·6	+0·5	39·0	79·1	2nd & 5th	32·5	10th
	Chaman	4,311	25·782	−·023	25·744	25·867	28th	25·679	1st	59·8	49·3	79·9	0	53·0	+0·3	66·5	+0·1	26·9	85·7	3rd	47·4	26th
	Kalat	6,630	23·877		23·839	23·959	26th	23·780	1st	40·0	36·8†	73·9	−0·6	36·1		55·0		37·8	76·2	21th	30·1	8th
	Dalbandin	2,772	27·227		27·190	27·295	10th	27·107	1st	57·6	48·0	89·4		48·9		69·2		40·5	95·6	6th	42·5	29th
	Pasni		29·973		29·933	30·078	28th	29·855	1st	72·7	67·3	93·0		58·9?		75·9?		34·1?	102·3	26th	52·1	28th
	Panjgur		26·837		26·795	26·921	23th	26·736	1st	57·5	45·0	88·3		53·4		70·8		34·9	93·6	25th	47·4	10th
	Robat		27·013		26·971	27·123	25th	26·883	1st	65·8	50·1	91·2		50·5		70·9		4..·7	97·6	5th	45·2	27th
	Seistan (c) (e)		28·266			28·350	28th	28·100	1st	58·2	48·4	84·7		52·5		68·6		32·2	90·8	5th	42·1	9th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Para Chinar	6,000	24·552	+·043	24·528	24·631	28th	24·474	26th	60·3	47·5	73·8	+0·2	48·0	−1·2	61·4	−0·9	26·8	80·2	25th	40·9	27th
	Cherat‡	*4,956*	25·756	+·004	25·724	25·872	28th	25·677	1st	64·2	51·2	74·9	−3·8	57·8	−0·4	66·3	−2·1	17·1	81·9	4th	51·8	27th
	Drosh (e)		25·193			25·275	23rd, 27th & 28th.	25·075	3rd	55·9	48·1	77·0	−0·1	53·7	+0·9	65·3	+0·4	23·3	82·5	5th	47·4	7th
	Murree	6,333	23·922	+·006	23·890	23·997	28th	23·851	26th	58·5	44·5	68·5	−0·3	51·9	+1·8	61·7	+0·7	13·6	73·6	17th	43·0	9th
	Simla	7,232	23·212	+ 042	23·174	23·288	28th	23·150	1st & 3rd	55·9	44·0	62·5	−0·3	51·3	+0·3	57·0	0	11·1	66·6	3rd	40·0	27th
	Chakrata	7,072	23·460	?	23·420	23·558	28th	23·399	1st & 3rd	59·5	48·9	69·8	+2·8	51·4	+0·4	60·6	+1·6	18·4	76·1	1st	44·2	27th
	Muktesar	7,592	22·954	+·040	22·913	23·047	28th	22·899	1st	56·3	45·2	67·5	+1·0	48·5	−1·3	58·0	−0·1	19·0	72·5	14th	36·8	27th
	Darjiling	7,432	22·352	+·028	23·007	23·118	26th	22·964	1st	54·4	51·5	62·9	+1·6	50·0	+0·1	56·4	+0·9	12·9	68·6	1st	43·2	31st.
	Shillong	4,920	25·231	+·046	25·183	25·329	28th	25·113	1st	64·1	58·2	70·2	−1·5	53·8	−0·7	62·0	−1·1	16·4	76·5	10th	46·1	31st
	Cherrapunji	4,309	25·777	+·042	25·728	25·871	28th	25·670	1st	66·4	61·3	71·7	−0·3	59·2	−1·3	65·4	−0·8	12·5	76·2	11th	53·8	31st
	Netarhat		26·185		26·132	26·371	29th	26·103	4th	73·2	59·2	80·7		?		?		?	83·5	5th	?	?
	Maymyo	3,546	26·490	+ 039	26·435	26·560	28th	26·407	1st	67·8	65·7	75·9	−0·9	60·9	+0·8	68·4	−0·1	15·0	80·4	10th, 19th & 25th.	47·2	23rd
	Pachmarhi	3,528	26·540	+·041	26·487	26·619	28th	26·365	1st	69·3	59·7	83·5	+4·9	56·7	−2·5	70·1	+1·2	26·8	85·0	6 days.	52·1	15th
	Mount Abu	3,945	26·144	+·034	26·094	26·203	23rd	26·067	20th	75·5	57·6	80·3	+1·1	66·1	+1·6	73·2	+1·3	14·2	83·2	23rd	61·4	1st & 2nd
	Mercara	2,781	26·263	+·028	26·196	26·319	28th	26·224	4th	67·2	64·6	77·8	+1·8	61·5	−0·6	69·7	+0·6	16·2	81·7	5th	58·1	29th
	Ootacamund	*7,327*	23·100	+·045	23·036	23·128	10th & 11th	22·958	26th	59·3	54·1	66·0	+2·0	49·7	−0·8	57·8	+0·6	16·3	70·0	3rd	40·2	26th
	Kodaikanal	7,688	22·768	+·032	22·803	22·898	10th	22·634	26th	57·3	53·3	65·1	+2·6	50·5	−0·9	57·8	+0·9	14·6	68·7	5th & 6th	45·2	26th
	Extra India.																					
	Singapore (a)	10	29·883	−·057	29·814	29·939	9th	29·840	30th	83·7		88·6	+0·7	74·8	+0·8	81·7	+0·7	13·8	91·5	20th	73·0	3rd, 9th & 10th
	Penang (a)	17	29·827	−·093	29·769	29·998	10th	29·658	26th	81·3		89·5	+1·1	72·5	−0·7	81·0	+0·2	17·0	92·0	16th 21st & 30th	65·0	17th
	Trincomalee	99	29·848	+·037	29·875	29·895	9th	29·793	30th	78·4	74·9	90·6	+1·9	75·6	+0·1	83·1	+1·0	15·0	96·3	1st	72·0	29th
	Colombo	24	29·948	+·023	29·898	29·997	10th	29·896	26th	76·0	74·7	85·9	−0·1	74·7	−0·6	80·3	−0·3	11·2	87·8	30th	71·8	6th
	Hambantota	64	29·904		29·894	29·943	6th, 9th & 10th.	29·849	30th	75·9	74·3	86·3		74·8		80·5		11·5	88·7	27th	72·4	7th
	Minicoy	7	29·989			30·074	5th	29·920	26th													27th
	Amini Divi	*13*	29·951	+·021	29·891	30·001	12th	29·802	26th	83·8	78·5	89·1	+3·2	77·1	+0·5	83·1	+1·9	12·0	92·2	10th	73·9	27th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,867	24·167	−·048	24·422	24·632	28th	24·137	20th	59·5	56·2	67·8	−2·9	56·0	+7·6	62·0	+2·3	11·9	75·7	9th	48·6	30th

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

(a) 9 hrs. observations.
(e) Aneroid.

* Mean of 30 days.
† „ „ 19 „
‡ „ „ 20 „
(e) „ „ 29 „

B—*continued.*

n India, etc., in October, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
31	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	54	55
																															Baluchistan.
29	0	0	0	0	1	1	0	0	S 24° W		1·7			7		34		·202		0		0		0	0·12	−0·12	3·30	4·93	−1·63	0	Fort Sandeman.
31	0	0	0	0	0	0	0	0	Calm	N 59° W	1·2	1·4	−0·2	(a)		59*	+15	·167*	−·028	0·5	+0·2	0	−0·2	0·01	0·14	−0 13	0·21	1·82	−1·51	0·01	Quetta.
3	0	0	18	7	2	1	0	0	S 71° E	S 45° E	0 8	5·8	−5·0	76	+22	43	+13	·234	+·032	0·6	+0·1	0	−0·2	0	0·13	−0·13	0	0·38	−0 38	0	Chaman.
31	0	0	0	0	0	0	0	0	Calm	S 11° E	4·0			(a)		56†	+18	·149†	−·035	0·6		0	−0·2	0	0·15	−0·15	0·09	1·53	−1·44	0	Kalat.
22	1	4	2	0	0	1	1	0	N 45° E		2·6			13		46		·219		0·7		0		0	0·08	−0·08	0	0·31	−0·31	0	Dalbandin.
5	4	2	1	1	0	0	8	10	N 45° W		5·4			56		77		·601		2·4		0		0	0·01	−0·01	0·04	1·77	−1·73	0	Pasni.
1	1	13	13	0	0	0	1	2	N 60° E		3·5			72		31		·150		0·6		0		0			9·35			0	Panjgur.
1	0	0	1	0	0	13	16	0	S 69° W		3·3			82		27		176		0 5		0		0	0·08	−0·08	0	0·12	−0·12	0	Robat.
18	1	0	0	0	0	0	0	10	N 41° W		3 9			36		47		·223		0·2		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·7			(a)		35	− 4	·183	−·028	0·8	−0·3	2	0	0·30	0·68	−0 68	8 51	14·59	−6·08	0·15	Para Chinar.
10	6	0	0	0	0	0	0	4	N 23° W	N 11° W	4·24	7·4	−3·2	45	− 6	39	− 3	·231	−·024	0	−1·0	0	−0·9	0	0 50	−0·50	9·06	13·41	−4·35	0	Cherat.
28	0	0	2	0	0	0	0	0	E		1·9			6		55	+ 1	·246	+·003	1·1	−0·9	3	+0·7	0·74	1·39	−0·65	2·74	6·04	−3 30	0·27	Drosh.
10	10	1	3	1	0	0	0	0	N 24° E	N 27° W	3·3	4·5	−1·2	37	+18	51	−12	·150	−·063	1 3	0	2	− 0·3	0·59	1·56	−0·97	25 80	39·76	−13·96	0·36	Murree.
																57	−11	·136	−·043	1·2	+0·5	1	−0 3	0·60	0·92	−0·32	48·66	50 80	−2·14	0·46	Simla.
13	0	12	2	0	0	3	0	1	N 47° E	N 39° E	4·6	4·5	+0·1	33	+ 1	46	−14	·236	−·042	0·8	−0·1	0	−1·2	0·02	0·83	−0·81	31·13	57·31	−26·18	0·02	Chakrata.
8	0	0	1	4	1	1	16	0	S 70° W		5·3			46		42	−14	·188	−·066	3·2	−1·1	1	−0·4	0·25	1·34	−1·09	20·76	42·52	−21·76	0·19	Mukteswar.
15	3	4	3	2	0	0	3	1	N 35° E	N 73° E	1·1	2·4	−1·3	20	−12	83	− 3	·353	−·024	6·1	+0·8	3	−1·3	0·89	4·45	−3·56	118·78	116·91	+1·87	0·35	Darjiling.
27	0	1	1	1	0	1	0	0	S 66° E		1 0			7		70	− 9	·421	−·045	3·8	+0·4	7	−2·8	3·54	6·39	−2·85	87·45	75·24	+12·21	1·13	Shillong.
4	0	8	10	1	1	2	3	1	N 71 E		2·7			43		75	− 6	·483	−·031	4·7	+0·3	6	−2·7	7·05	19·47	−12·42	490·10	376·81	+113·59	3·81	Cherrapunji.
2	3	3	1	2	0	1	4	16	N 39° W		5·9			61		42		·346		0		0		0			55·78			0	Netarhat.
14	0	1	1	1	0	3	1	0	S 18° W		0·5			7		89	− 1	·612	−·032	6·2	+1·2	12	0	7·13	7·71	−0·58	44·68	53·36	−8·42	1·41	Maymyo.
1	1	1	1	2	0	3	0	2	S 45° W	N 34° E	1·5	2·3	−0·8	1	−10	57	0	·407	−·027	0·5	−1·9	1	−2·0	0·14	1·92	−1·78	45·53	72·51	−27·03	0·14	Pachmarhi.
28	10	3	0	1	2	6	4	1	N 46° W	N 27° W	3·5	3·6	−0·1	27	+ 9	31	−13	·273	−·065	0·2	−0·9	0	−0·6	0	0·68	−0·68	36·16	56·93	−20·77	0	Mount Abu.
2	5	7	3	1	0	0	1	2	N 31° E	N 27° E	2·1	3·1	−1·0	43	+18	87	− 2	·577	−·006	3·6	−3·0	14	+0·7	6·07	8·74	−2·67	73·02	119·22	−46·20	1·15	Mercara.
1	1	3	9	10	6	1	0	0	S 59° E		2·6			66		73	− 5	·366	−·067	4·6	−1·4	13	−1·6	7·58	8·78	−1·20	30·62	43·35	−13·23	1·30	Ootacamund.
10	11	6	6	1	0	0	0	7	N 18° E		7·0			66		78	− 6	·367	−·015	4·5	−0·7	17	+1·2	7·08	10·66	−3·58	28·65	39·16	−10·51	1·05	Kodaikanal.
																															Extra India.
20	0	2	2	1	2	9	0	5	S 45° E					20						7·4	+1·7	9	−2·8	6·42	7·60	−1·18	16·34	39·55	+6·79	1·70	Singapore.
9	3	12	2	7	2	0	0	5	N 56° E					46								18	−0·1	17·83	15·80	+2·03	52·43	61·57	−12·14	4·80	Penang.
18	0	0	0	0	0	6	2	0	S 55° W	S 45° W	1·2	6·2	−5·0	27	−48	84	− 2	·816	−·051	5·2	+1·6	8	−2·8	7·55	8·01	−0·46	13·56	22·59	−9 03	2·80	Trincomalee.
27	1	1	1	0	0	1	0	0	N 45° E	S 41° W	2·4	5·4	−3·0	3	−39	94	+10	·343	−·025	7·1	+0·8	14	−1·9	14·95	14·74	+0 21	59·12	46·63	−7·51	4·45	Colombo.
18	8	1	0	0	0	3	10	7	N 55° W		6·2			62		92		·821		5·5		17		7·21			17·85			1·99	Hambantota.
26	6	1	4	2	1	1	1	10	N 29° W	N 78° W	3·2	5·4	−2·2	42	−15					5·9	+0·7	11	−0·3	9·16	8·64	+0·52	47·04	47·47	+0·17	2·33	Minicoy.
18	10	6	0	0	0	1	1	9	N 11° W		3·7			68		78	− 2	·904	+·034	5·5	−0·8	6	−3·1	2·71	5 83	−3·12	39·64	48·10	−8·46	0·64	Amini Divi.
																									0·13						Gyantse.
																									0·41						Pharijong.
14	0	14	0	0	0	0	0	0	N 45° E		4·0			45		82	− 2	·422	−·032	2·8	−0·6	4	−5·1	0·76	5·03	−5·27	111·15	112·66	−1·51	0·20	Gangtok

* Mean of 30 days.
† " " 19 "
‡ " " 13 "

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 215

Number of sub-division.	Station.	Height of barometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·679	—·051		26·040	27th	25·350	30th	47·6	41·3	73·1	+2·5	41·3	—1·6	57·2	+0·5	31·8	85·7	2nd	32·3	27th & 28th, 29th
	Kabul (*c*)	...	24·259	—·071		24·350	23rd	24·160	4th	51·4	45·7	82·2	+4·7	49·5	+7·9	65·8	+6·3	32·7	85·8	3rd	38·0	
	Meshed	3,104																				
	Jask	13	29·956	+·021	29·922	30·054	28th	29·836	1st	78·5	73·1	92·1	+1·8	75·3	—0·6	83·7	+0·3	16·8	96·6	8th	68·8	29th
	Muscat	20	29·959	+·019	29·927	30·056	10th	29·845	1st	84·0	74·1	92·8	+4·6	79·1	—1·5	86·0	+1·5	13·7	98·2	4th & 5th.	72·8	20th
	Bushire*	14	29·920	—·025	29·896	30·017	28th	29·811	1st	79·7	70·9	89·4	+1·8	73·5	+2·2	81·4	+2·0	15·9	96·1	5th	67·5	24th
	Busrah	25	29·979	+·005	29·973	30·130	28th	29·806	3rd	74·8	64·7	95·7	+6·6	65·6	—0·8	80·6	+2·9	30·1	113·9	3rd	57·2	24th
	Ispahan (*c*)	*5,817*	24·403	—·077		24·510	6th & 25th.	24·290	1st	53·9	47·8	78·0	+0·7	48·9	+3·0	63·5	+1·9	29·1	86·4	3rd	41·2	24th
	Tehran (*c*)†	*4,002*	25·864	—·176		26·100	25th	25·800	2nd	61·2	51·8	76·9	+0·3	56·2	+4·2	66·5	+2·3	20·7	85·2	3rd	49·6	21st
	Baghdad	127	29·866			30·052	28th	29·652	3rd	69·3	56·2	95·4	+3·1	67·0	+4·0	81·2	+3·5	28·9	102·2	3rd	55·6	22nd
	Aden	94	29·889	+·015	29·915	29·977	10th	29·801	1st	79·0	74·9	87·5	—2·1	77·3	—0·5	82·4	—1·3	10·2	90·8	22nd	73·1	30th
	Zanzibar	72	30·046	+·028	30·045	30·093	11th	29·959	30th	77·9	73·7	82·5	—0·9	74·4	—0·9	78·4	—0·9	8·1	86·2	27th	72·8	8th & 13th.

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(*c*) Aneroid.

* Mean of 30 days.
† „ „ 29 „

B—*concluded.*

stations in India, etc., in October, 1918—*concluded.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Extra India —*contd.*
																									0			2·53			Gartok.
29	0	1	0	0	0	0	0	2	N 45° W	N 33° W	0·5	1·2	−0·6	3	− 9	58	+ 2	·194	−·012	2·7	+0·4	0	−0·1	0	0·02	−0·42	0·51	2·10	−1·59	0	Kashgar.
0	5	4	0	0	1	9	9	3	N 75° W.	S 10° E				48	+36	65	+11	·254	+·022	2·6	+2·0	0	−0·7	0	0·56	−0·56	0·48	1·85	−1·37	0	Kabul.
																									0·42						Meshed.
6	6	6	1	0	0	0	0	1	N 58° E	N 6° E	5·4	7·7	−1·3	56	+23	76	+ 7	·746	−·006	0·1	−0·8	0	−0·2	0	0·06	−0·06	0	0·14	−0·14	0	Jask.
11	1	3	3	1	1	0	4	7	N 28° W	N 75° W	7·7	7·7	0	20	− 8	61	− 5	·714	−·041	1·3	+0·7	0	−0·1	0	0·08	−0·08	0	0·25	−0·25	0	Muscat.
8	7	9	5	1	0	0	0	6	N 35° E	N 67° E	6·3*	4·5	+0·8	62	+4	63	− 2	·656	+ 024	0·7	−0·4	0	− 0·2	0	0·09	−0·09	0·05	0·12	−0·07	0	Bushire.
1	1	3	3	1	1	5	15	1	S 86° W		4·0			42		55		·491		1·4		0	−0·2	0	0·07	−0·07	0	0·52	−0·52	0	Busrah.
27	4	0	0	0	0	0	0	0	N	N 74° W	0·9	2·1	−1·2	13	−11	65	+ 7	·273	0	1·1	−0·2	1	+0·6	0·15	0·15	0	0·31	0·47	−0·16	0·13	Ispahan.
8	14	7	0	9	0	0	0	0	N 15° E	N 18° E	3·7†	2·1	+1·6	69	+46	52	+ 3	·278	+·019	4·0	+2·2	1	0	0·37	0·32	+0·04	0·80	1·17	−0·37	0·23	Tehran.
										N 6° W	0·3	1·0	+0·1			39		·280		2·0		0	−0·3	0·03	0·08	−0·05	0·21‡	0·33	−0·12	0·03	Baghdad.
12	0	18	1	0	0	0	0	0	N 47° E	N 78° E	1·5	1·3	+0·2	62	− 6	82	+12	·815	+·040	1·4	−0·9	0	−0·1	0	0·10	−0·10	0·07	0·58	−0·51	0	Aden.
4	0	0	0	8	11	7	1	0	S 1° W	S 20° E	3·7	5·7	−1·0	68	− 4	81	+ 1	·771	−·019	6·7	+0·5	7	+1·4	5·77	2·39	+2·38	27·92	22·47	+5·45	2·32	Zanzibar.

*Mean of 29 days.
† " " 27 "
‡Rain fall for September 1918. Wanting.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in October, 1918.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	Temperature of Air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from								Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	* 13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	76·0	72·5	87·5	+0·2	69·5	+3·9	78·5	+2·1	18·0	92·1	8th & 11th	62·5	25th	...	...	...	...	...	...		...	...	...	...
	Borjuli	78·9	73·9	88·9	+0·5	67·6	−1·5	78·3	−0·5	21·3	93·0	9th & 10th	61·4	25th & 30th	...	...	...	..	..	...	...	..	...	...	...
	Chandkhira	74·3	73·9	92·6	+5·4	69·0	−0·3	80·8	+2·3	23·8	104·6	17th	65·6	31st	...	...	...	..	..	..	...	...	..	..	...
	Doom Dooma	73·2	71·1	89·7	+6·2	68·2	+0·7	78·9	+3·5	21·5	95·3	10th	62·2	17th. 29th & 30th	..	...	...	...	...	...	...	...	.	...	...
	Dikom	73·5	71·1	86·3	+0·3	68·2	+0·5	77·3	+0·5	18·1	91·4	2nd	59·0	30th	...	...	..	...	...	...	...	...	...	...	...
	Golaghat	74·3	72·7	85·2	+1·3	67·6	...	76·4	...	17·6	96·8	10th	60·2	25th	...	..	...	...	...	...	...	...	...	...	...
	Hailakandi	75·3	74·1	88·6	+0·6	...	...	...	...	...	93·2	1st & 10th	...	...	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	75·6	73·2	84·4	−2·3	71·3	+1·3	77·9	−0·5	13·1	90·5	10th	61·4	25th	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	75·3	72·8	85·6	...	69·0	...	77·3	...	16·6	96·3	3rd	62·8	31st	...	...	...	.	.	...		...	...	...	...
	Messa	82·2	75·6	90·9	−0·1	63·2	+0·8	79·5	+0·3	27·7	94·3	11th & 12th	62·8	24th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	70·8	68·3	88·7	+2·1	61·4	−2·1	76·5	0	24·3	93·5	11th	57·2	31st	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·7	76·3	88·2	+0·8	73·3	−0·2	80·7	+0·1	14·9	91·3	9th	67·4	31st	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...
	Goalundo	84·6	76·5	90·3	+1·5	73·1	+0·6	81·7	+1·1	17·2	96·3	2nd	69·3	15th	...	..	...	.	...	...	...	...	..	...	...
	Pabna	81·5	75·7	92·2	−0·1	73·3	+1·9	82·7	+0·9	18·9	96·8	4th	68·7	18th	...	...	...		...	...	...	..	...	...	...
	Sirajganj	...	..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	.	...	...	...	...	...	..	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...
	Rangpur	...	..	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	. .	...	...	...
	Dam Dim	75·2	72·1	90·2	−0·5	65·4	−0·1	77·8	−0·3	24·8	92·9	6th & 11th	54·8	28th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	81·4	76·6	90·3	+2·0	65·9	−0·4	78·1	+0·8	24·4	94·1	2nd	61·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·6	73·1	88·3	−0·2	67·0	−0·4	77·7	−0·3	21·3	91·1	4 days.	61·0	28th	...	...	...	...	...	...	...	..	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	.	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 28 days.

C.

and fifth class stations in India, etc., in October, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	84	− 7	·761	+·005	...	...	10	+3·0	2·43	5·63	−3·20	121·29	80·82	+40·47	0·30	Bishnath.
...	...	...	...	...	78	− 7	·769	−·005	...	...	6	−1·2	1·95	4·65	−2·70	100·15	74·55	+25·60	0·91	Borjuli.
...	...	...	...	...	88	+ 6	·835	+·014	...	...	6	−2·0	2·06	6·73	−4·67	103·59	90·55	+13·04	0·50	Chandkhira.
...	...	...	...	...	90	− 3	·735	−·012	...	...	5	−1·8	2·85	4·64	−1·79	81·11	78·14	+2·97	1·25	Doom Dooma.
...	...	...	...	...	89	+ 1	·733	+·012	...	...	7	−0·5	3·14	5·58	−2·44	87·14	84·17	+2·97	1·03	Dikom.
...	...	...	...	...	92	+ 2	·783	0	...	...	4	−2·3	1·02	3·40	−2·38	70·28	55·46	+14·82	0·36	Golaghat.
...	...	...	...	...	94	+ 1	·826	+·027	...	...	7	−2·0	5·18	8·15	−2·97	118·40	99·27	+19·13	2·15	Hailakandi.
...	...	...	...	...	89	− 1	·786	+·009	...	...	3	−4·0	2·89	4·60	−1·71	82·20	66·98	+15·22	2·30	Jorehat.
...	...	...	...	...	88	...	·776	...	...	...	4	−2·3	1·84	4·75	−2·91	47·10	41·42	+5·68	0·75	Lumding.
...	...	...	...	...	72	− 9	·794	+·007	...	...	8	+2·0	3·64	5·04	−1·40	86·40	70·96	+15·94	0·95	Messa.
...	...	...	...	...	89	− 4	·665	+·022	...	...	6	+0·5	4·94	4·08	+0·86	113·37	68·33	+45·04	1·55	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	1	−5·1	1·53	6·36	−4·83	82·42	78·61	+3·81	1·53	Comilla.
...	...	...	...	...	78	− 7	·835	−·050	...	...	4	−3·7	1·68	6·69	−5·01	67·33	72·89	−5·56	0·68	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	3	−2·4	1·19	4·54	−3·35	77·06	60·77	+16·29	0·62	Faridpur.
...	...	...	...	...	68	−12	·799	−·038	...	...	2	−5·0	0·57	4·84	−4·27	66·22	57·05	+9·17	0·30	Goalundo.
...	...	...	...	...	75	− 4	·814	−·021	...	...	1	−3·8	0·18	4·42	−4·24	43·03	53·38	−10·35	0·10	Pabna.
...	...	...	...	...	...	...	...	...	...	...	1	−3·6	0·16	4·59	−4·43	66·29	57·74	+8·55	0·16	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	−4·1	0·03	3·10	−3·07	66·69	50·34	+15·75	0·03	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	1	−2·9	1·87	3·69	−1·82	85·56	49·09	+36·47	1·78	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	−3·6	0·09	4·34	−4·25	107·74	75·07	+32·67	0·09	Rangpur.
...	...	...	...	...	85	− 5	·751	−·014	...	...	2	−4·5	1·92	5·13	−3·21	143·38	143·29	+0·09	1·12	Dam Dim.
...	...	...	...	...	79	− 2	·859	+·038	...	...	4	−2·3	1·38	6·15	−4·77	147·88	135·32	+12·56	0·48	Kalchini.
...	...	...	...	...	69	−11	·715	−·010	...	...	5	−2·3	3·32	7·52	−4·20	137·15	144·84	−7·69	2·20	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	3	−1·8	0·90	6·97	−6·07	138·48	134·52	+4·96	0·42	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	1	−3·5	0·11	4·03	−3·92	53·37	51·10	+2·27	0·11	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	1	−3·0	0·10	2·53	−2·43	42·85	50·29	−7·44	0·10	Bankura.
...	...	...	...	...	...	...	...	...	...	...	1	−2·6	0·31	2·25	−1·94	35·82	47·66	−11·84	0·31	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	−4·0	0	2·69	−2·69	42·55	48·51	−5·96	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−2·6	0·02	2·04	−2·02	47·82	46·21	+1·61	0·02	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−2·6	0	2·65	−2·65	52·03	47·10	+4·93	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	1	−1·6	0·69	2·55	−1·86	51·71	52·71	+2·00	0·69	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−2·4	0	2·24	−2·24	54·83	39·94	+14·89	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−3·0	0	2·48	−2·48	36·72	42·25	−5·53	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−2·6	0	2·01	−2·01	44·77	38·08	+6·69	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	XII.—Central Provinces.																								
23	Chhindwara	71·9	61·1	90·8	...	59·1	...	74·9	...	31·7	92·7	7, 23 & 24th	50·6	29th	31	0	0	0	0	0	0	0	0	Calm	
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
32	Anantapur	80·2	74·9	94·4	...	72·1	...	83·3	...	22·3	97·8	3rd	65·3	29th	...	...	...	...	...	...	...	...	...	...	
33	Guntur	81·7	75·5	94·8	...	73·5	...	84·1	...	21·3	97·6	1st	67·0	23rd	...	...	...	...	...	...	...	...	...	...	
	Korapat	70·5	65·2	83·2	...	59·5	...	71·6	...	24·3	86·0	1st & 2nd	51·0	25th	...	...	...	...	...	...	...	...	...	...	
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kashmir.																								
13	Jammu	72·3	61·8	89·8	...	67·5	...	78·6	...	22·3	93·8	2nd	62·6	29th	0	10	18	0	0	0	2	1	0	N 25° E	
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Kargil	47·3	39·5	65·4	...	28·4	...	47·4	...	38·0	71·5	18th	20·5	28th	17	3	0	2	6	1	0	0	2	S 70° E	
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Hill stations, exclusive of Kashmir.																								
	Panighatta	72·6	71·4	86·8	+0·4	*70·2	*+2·8	78·5	+1·6	16·6	89·5	11, 24 & 29th.	69·0	7, 23 & 25th.	...	...	...	...	...	...	...	...	...	...	
	Kurseong	64·5	63·8	79·8	0	59·5	0	65·1	0	11·3	75·3	1st	54·3	31st	...	...	...	...	...	...	...	...	...	...	
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Poo	...	...	67·6	+2·0	41·5	−0·1	54·5	+0·9	26·1	73·4	18th	36·1	27th	4	0	0	1	13	6	7	0	0	S 14° E	
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Pishin	...	...	76·6	−0·4	35·0	2·2	55·8	−1·3	41·6	79·3	5, 6 & 25th	28·0	12th	...	...	...	...	...	...	...	...	...	...	

* Mean of 26 days.

C—*continued.*

and fifth class stations in India, etc., in October, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	−0·5	0	0·50	−0·50	11·11	28·21	−17·10	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	1	−0·2	0·31	0·80	−0·59	41·62	75·62	−34·00	0·31	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·51	−0·51	13·50	22·05	−8·55	0	Udaipur.
																				XII.—Central Provinces
0·9	...	...	(a)	...	52	...	·412	...	1·3	...	1	...	0·12	1·44	−1·32	27·83	36·10	−8·27	0·10	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−3·4	0	2·22	−2·22	19·45	30·89	−11·44	0	Parbhani.
																				XV.—Madras.
...	..	...	..	...	...	...	...	...	...	...	9	+0·1	4·33	7·13	−3·05	8·08	11·63	− 3·55	1·74	Tinnevelly.
...	...	...	...	...	77	...	·800	...	2·2	...	0	−6·0	0	2·95	−2·95	12·59	21·00	− 8·41	0	Anantapur.
...	...	...	...	...	74	...	·806	...	0·3	...	3	−4·2	1·25	4·95	−3·70	19·16	28·23	− 9·07	0·53	Guntur.
...	...	...	...	...	75	...	·562	...	...	...	2	...	0·25	...	...	53·02	...	...	0·15	Korapat.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	17	+1·3	9·71	11·06	−1·35	47·63*	69·62	− 21·99	1·94	Car Nicobar.
																				Kashmir.
...	...	...	74	...	54	...	·430	...	0·7	...	0	−0·3	0	0·69	−0·69	24·51	30·21	− 5·70	0	Jammu.
...	...	...	...	...	...	...	...	...	...	...	5	+0·4	1·17	2·04	−0·87	12·03	20·83	− 8·80	0·35	Sonamarg.
...	...	...	16	...	50	...	·163	...	2·3	...	0	−0·5	0	0·07	−0·07	0·46	1·77	− 1·31	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·12	−0·12	3·20	6·45	− 3·25	0	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	94	+26	·753	+·108	...	...	1	−3·8	0·49	7·20	−6·71	154·95	130·37	+ 24·58	0·31	Panighatta.
...	...	...	...	...	96	+17	·583	+·106	...	...	2	−3·3	0·82	6·96	−6·14	169·18	151·24	+ 17·94	0·59	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	11	...	2·73	5·81	−3·08	163·13	137·04	+ 26·09	0·40	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	6	...	1·34	3·97	−2·63	49·35	46·00	+ 3·35	0·37	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·41	...	...	129·07	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	33·00	...	...	0	Dharampur.
...	...	...	...	...	...	...	...	...	...	...	1	−0·2	0·17	0·90	−0·73	39·48	83·28	− 43·80	0·17	Mussooree.
...	...	...	68	...	...	...	...	...	2·1	+0·6	0	−0·8	0	0·34	−0·34	0·26	3·30	− 3·04	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0·04	0·55	−0·51	3·40	8·88	− 5·42	0·04	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Baalch.
...	...	...	...	...	...	...	...	...	0·1	...	0	−0·2	0	0·21	−0·21	0	0·65	− 0·65	0	Pishin.

(a) Indeterminate.
*Rainfall for August wanting.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	38·7	38·7*	58·7	...	34·1	...	46·4	...	24·6	65·5	1st	26·2	24th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	..	....	...	...	...	...	...	...	...	...	...
	Abadan	85·3	69·5	96·9	...	68·6	...	82·7	...	28·3	104·0	4 days	60·0	31st	0	6	0	0	1	5	4	1	13	N 56° W‡	...
	Kirmanshah	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...	...
	Amara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	Shushtar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	77·4	66·3	95·5	..	61·0	...	78·3	...	34·5	102·4	3rd	50·1	23rd	6	1	2	2	2	1	3	5	9	...	...
	Mohammerah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nasiriyah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shahroban	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...		...	...	...

* Mean of 28 days.
‡ 1 wind variable.

C—*concluded.*

and fifth class stations in India, etc., in October, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 31st October, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	94*	...	·231*	...	0·1	...	1	...	0·32	1·65	+1·33	31·42	26·45	+4·97	0 32·	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	3	−2·6	1·00	2·26	−1·26	19·66	30·80	−11·14	0·54	Pemba.
...	...	...	37	...	48	...	·492	...	...	...	0	...	0	...	...	0·06	...	...	0	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amara.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kurna.
4·0	...	...	...	...	53	...	·491	...	1·4	...	0	...	0	...	...	0 †	...	...	0	Mohammerah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Nasiriyah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shahroban.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

SGPI-21-45DGObs.-7-3-22-325.

* Mean of 28 days.

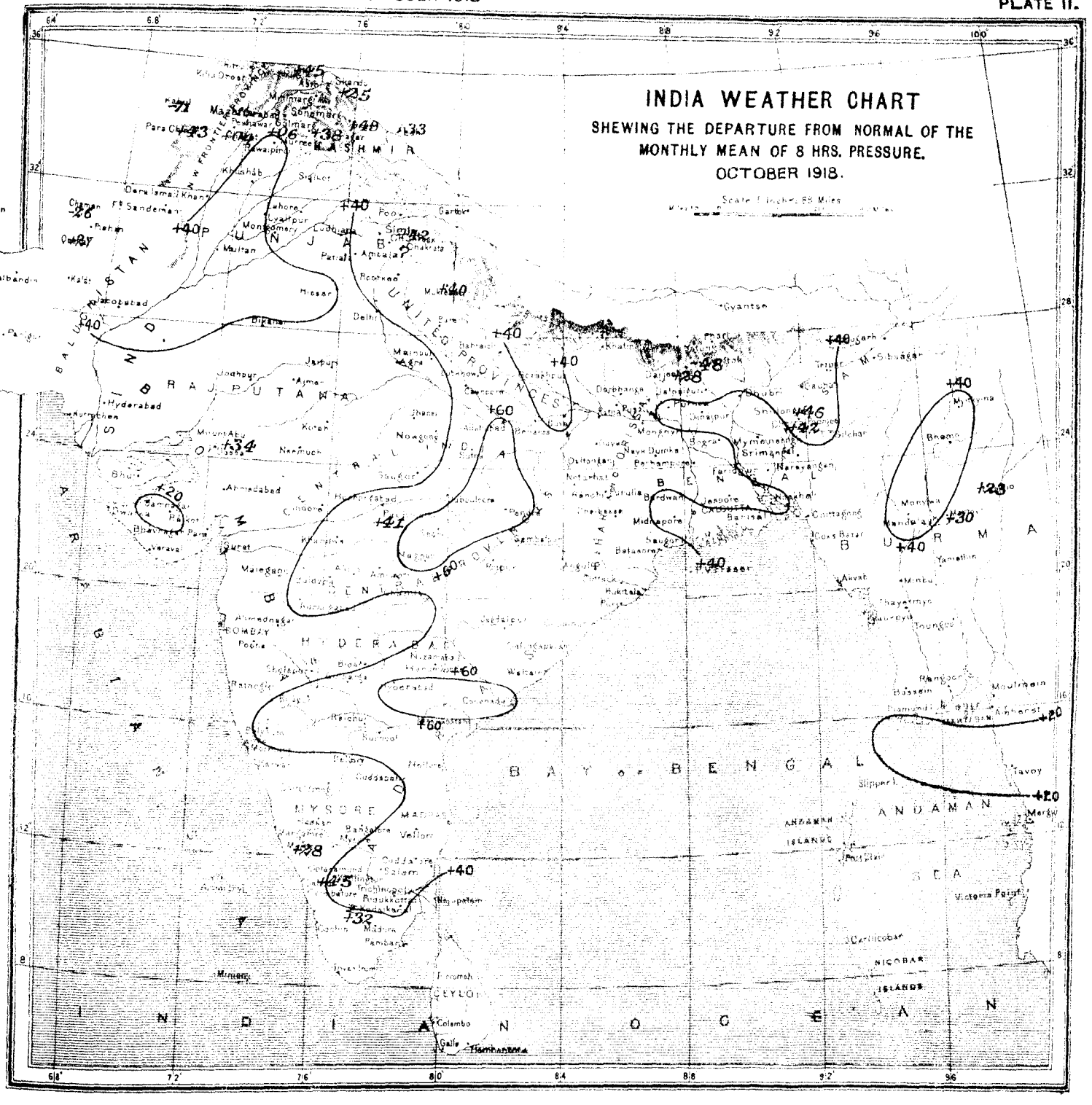
† Rainfall for September granting.

The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2 miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5 ,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10 ,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20 ,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20 ,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

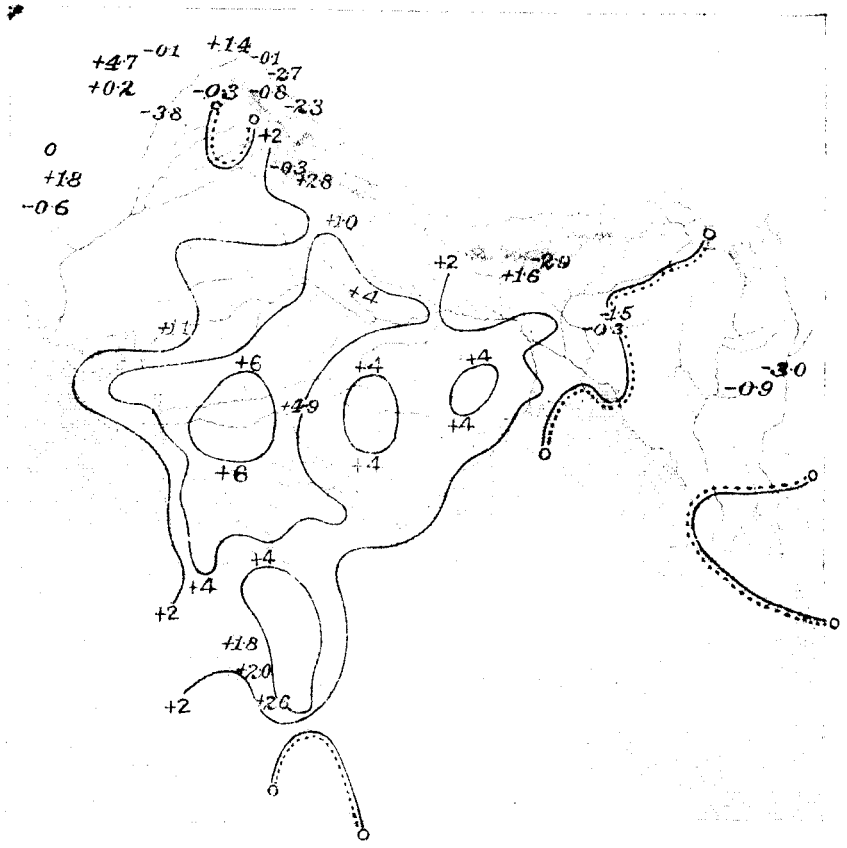


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

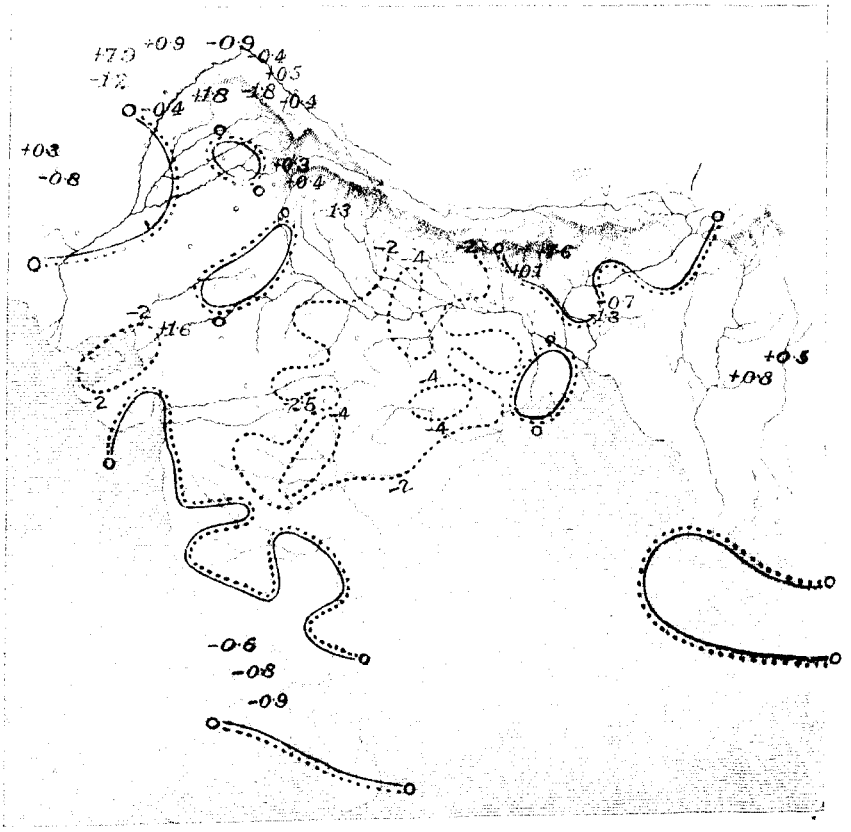


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

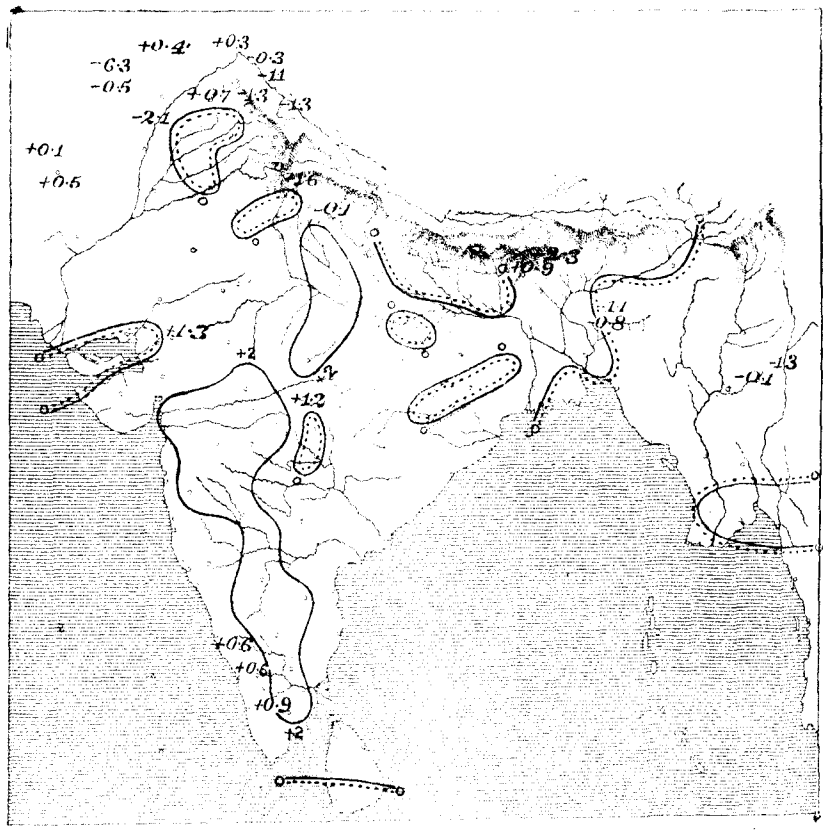


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

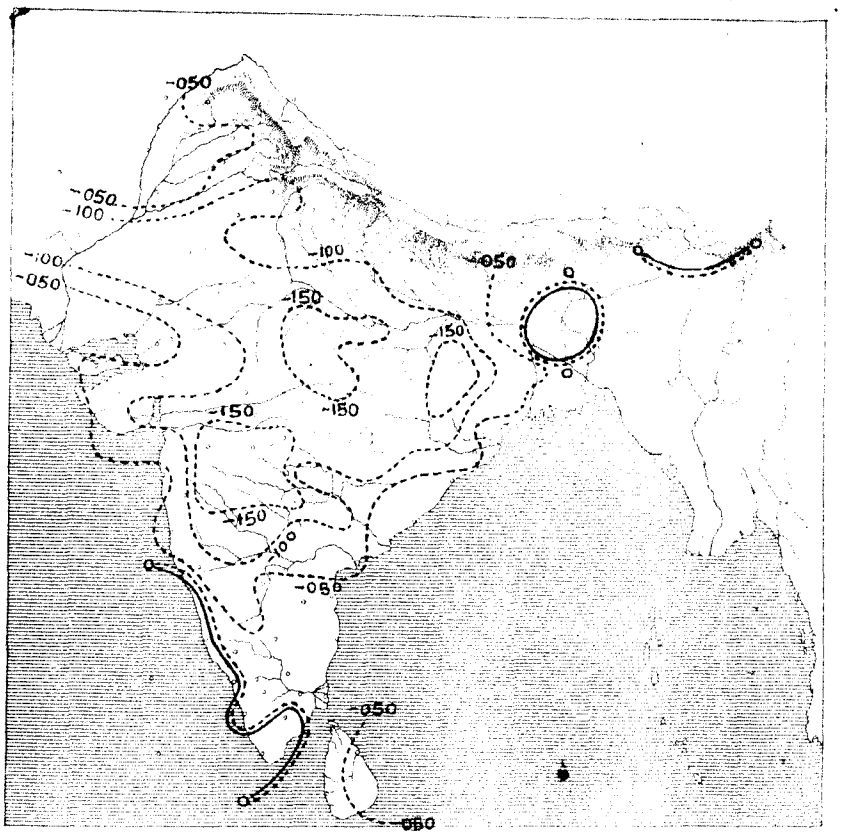


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

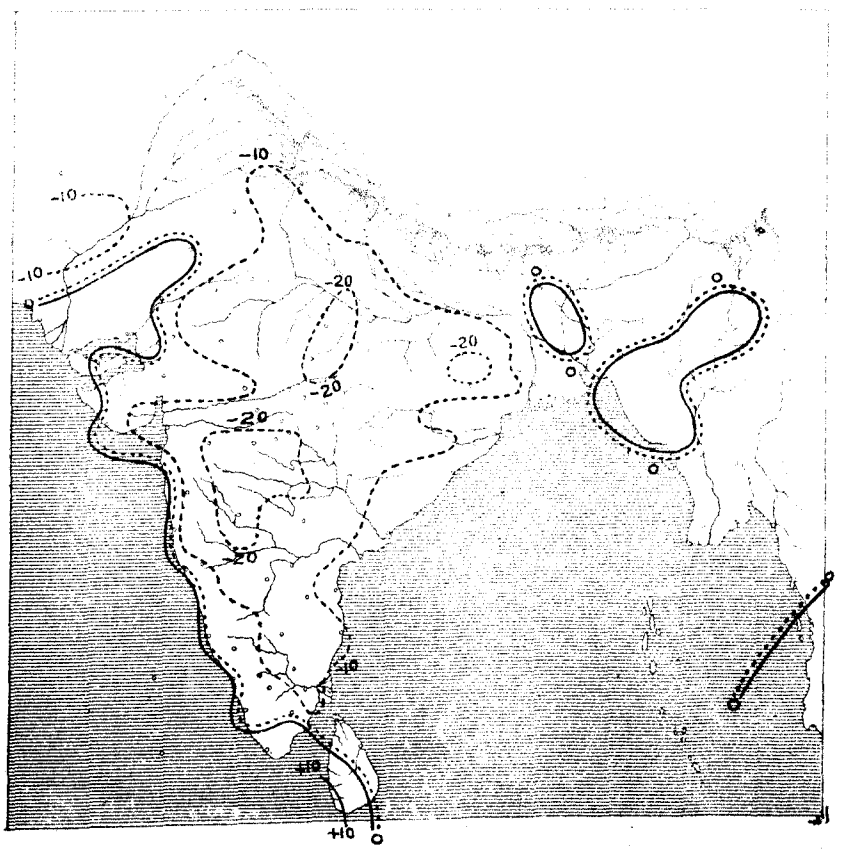


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

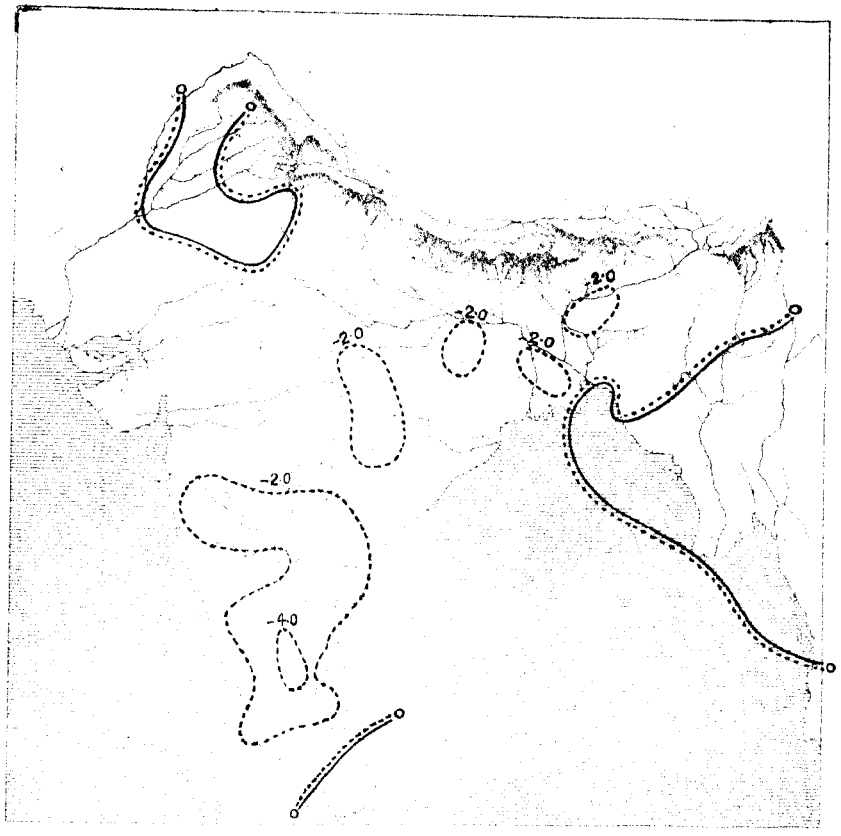
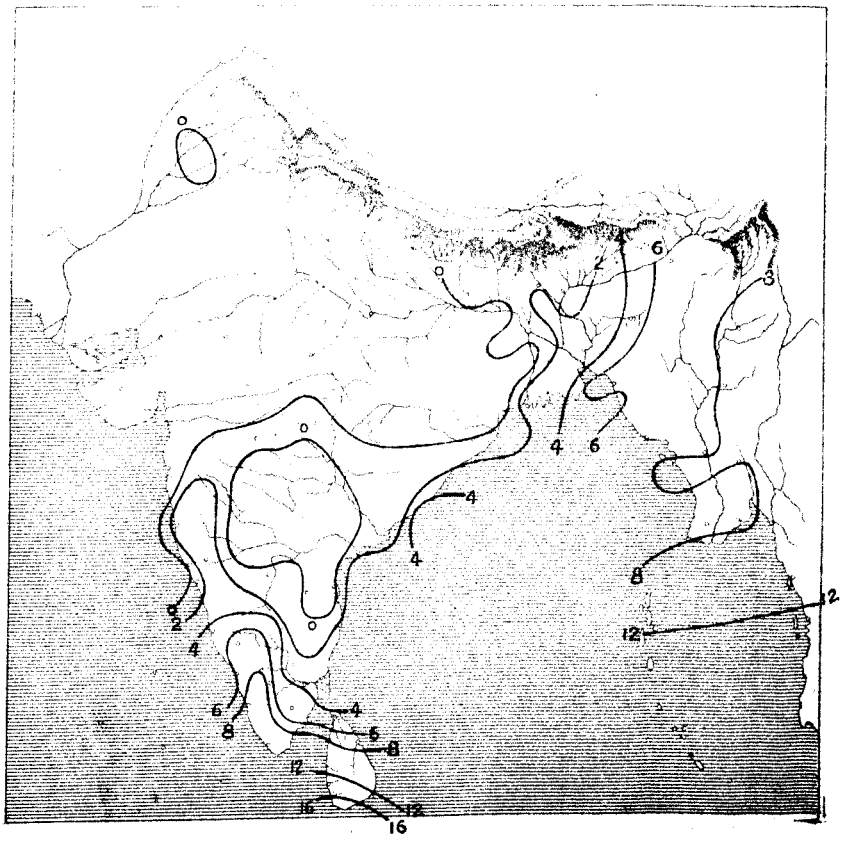
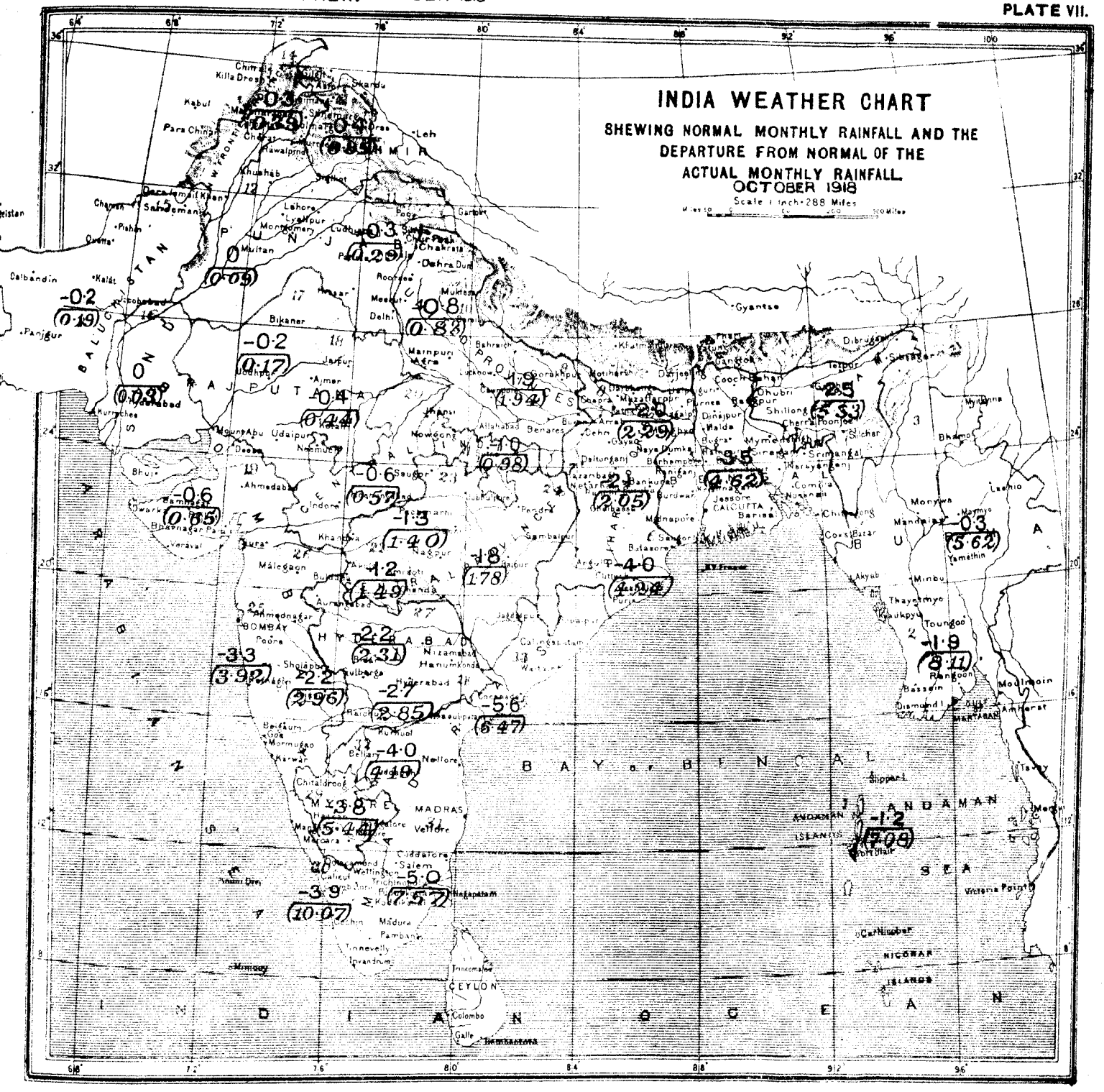


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, NOVEMBER, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of November, 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 12 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and the rainfall statements of the month published by the Provincial Governments.

The brief notes on solar, seismic and magnetic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon continued active till the end of the month over almost the whole of the Madras Presidency, and gave abundant rain in the Peninsula and Lower Burma. A burst of rain occurred in Mysore and the Deccan on the 26th, and the area of rainfall gradually extending northwards reached to the United Provinces at the end of the month; Central India and the Central Provinces received during this period more than their normal amount for the whole month. Rainfall was in defect with the exception of the areas mentioned above and Kashmir.

Two depressions formed in the Bay. The first passed near Madras on the night of the 10th-11th as a violent cyclone and probably disappeared near the Konkan coast; the second passed northwards from the southwest of the Bay but disappeared without striking any coast. The latter caused some very heavy falls of rain in southeast Madras.

Skies were generally clouded to more than the usual extent, but humidity was normal or in defect except in Mysore and Madras. Temperature was above the average in the Peninsula and the central parts of the country.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—Cloudy weather persisted throughout the month and no solar observations were possible on 7 days. Prominences were photographed on 15 days and on 7 of these the record was imperfect.

Sunspots.—27 new groups were recorded with a daily average of 5·1. The average life of a spot was 4·9 days as against 5·9 in October. The distribution in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	10	4	...	9°·3	1° & 17°
South . . .	4	7	1	14°·9	7° & 22°
Equator . . .	1	...	...	...	...

Prominences.—19 large and 2 metallic prominences were recorded during the month. The tallest, 140″ high, was photographed on the 28th.

Magnetic disturbances.—"Great" disturbances were recorded on the 23rd, 24th, 29th, and 30th and "moderate" disturbances on the 1st, 2nd, and continuously from the 10th to the 22nd inclusive, and on the 25th.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10^{\circ}\ 13'\ 50''$ N; $\lambda = 77^{\circ}\ 28'\ 00''$ E; $h = 2343$ m. *Subsoil* Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·1	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Nov. 3rd	e P	11 32 00	...	...	...	...	...	Widening of line.
	F	12 25 06	...	...	...	...	...	
„ 8th	e P	4 50 00	...	...	...	...	...	
	i L	4 59 06	...	...	...	...	...	
	M	5 28 48	...	...	840	...	...	
	F	8 23 06	...	...	...	...	...	
„ 10th	e P	17 41 42	...	...	...	...	...	Widening of line.
	F	17 43 48	...	...	...	...	...	
„ 10th	e P	18 26 24	...	...	...	...	..	Widening of line.
	F	18 28 24	...	...	...	...	...	
„ 10th	e P	18 49 24	...	...	...	...	...	Widening of line.
	F	18 50 54	...	...	...	...	...	
Nov. 11th	e P	7 44 18	...	...	...	...	...	Widening of line.
	F	7 52 00	...	...	...	...	...	
„ 12th	e P	23 08 18	...	...	...	...	...	Widening of line.
	F	23 25 06	...	...	...	...	...	
„ 18th	i P	18 50 36	...	...	...	...	...	
	i L	18 58 36	..	...	...	...	...	
	M	19 14 00	...	...	650	...	...	
	F	22 17 00	...	...	...	...	...	
„ 22nd	e P	16 36 06	...	...	...	...	...	Widening of line.
	F	16 42 48	...	...	...	...	...	
„ 23rd and 24th	e P	23 06 36	...	...	...	...	...	
	e L	23 10 00	...	...	...	...	...	
	M	23 35 06	...	...	80	...	...	
	F	0 13 54	...	...	...	...	...	
„ 28th	e P	9 58 42	...	...	...	...	...	Widening of line.
	F	10 06 36	...	...	...	...	...	
„ 29th	e P	10 54 06	...	...	...	...	...	Widening of line.
	F	11 02 42	...	...	...	...	...	
„ 30th	P	...	...	...	...	...	...	No P. Ts.
	i L	7 26 12	...	...	...	..	...	
	M	7 26 24	...	...	60	...	...	
	F	7 41 12	...	...	...	...	...	

S. SITARAMAYYA,
Offg. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of November, 1918, the traces showed 10 calm days, 17 days of small, and three days of moderate disturbances.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 4th, 6th, 8th, 26th and 27th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	S	9	C	17	S	25	S
2	S	10	S	18	S	26	C
3	C	11	S	19	S	27	C
4	C	12	S	20	S	28	C
5	C	13	S	21	S	29	M
6	C	14	S	22	S	30	M
7	C	15	S	23	M		
8	C	16	S	24	S		

C = calm ; S = small ; M = moderate ; G = great ; V. G. = very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month, are as follows :—

Easterly declination . . .	0° 26′ 52″.
Horizontal force	0·36880 C. G. S. unit.
Vertical force	0·17021 C. G. S. unit.
Inclination	24° 46′·5.
Horizontal force range . . .	0·00054 C. G. S. unit.
Horizontal force summed range .	0·00351 C. G. S. unit.
Declination range . . .	1′·7.
Declination summed range . .	8′·2.

(NOTE.—Summed range means sum without regard to sign of twenty-four ordinates of diurnal inequality.)

Seismic records.

$\phi = 18° 53′ 36″$ N ; $\lambda = 72° 48′ 56″$ E; $h = 11$ m. *Subsoil* Trap

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN :				
AE :	20	32		
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Nov. 8th	P	4 49 11	...	...	..	...	...	
	M	5 16 9	...	...	455	...	...	
„ 11th	P	...	...	...	...	...	...	Commencement doubtful. P as shown by Milne's Seismograph is at 7h. 37m. 54s.
	M	7 42 33	...	...	5	..	...	
„ 18th	P	18 52 6	...	...	...	...	...	
	M	19 18 19	...	...	1335	...	...	
„ 22nd	P	16 25 3	...	...	..	...	...	
	M	16 33 25	...	...	10	...	...	
„ 24th	P	23 8 3	...	...	...	...	...	
	M	23 30 33	...	...	35	...	...	
„ 29th	P	10 47 9	...	...	...	...	...	
	M	10 49 52	...	...	25	...	...	
„ 30th	...	...	...	...	...	...	...	Commencement doubtful. P as shown by Milne's Seismograph is at 7h. 22m. 41s.
	M	7 27 47	...	...	15	...	...	

N. A. F. MOOS,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32' N$; $\lambda = 88° 20' E$; $h = 6{\cdot}4$ m. *Subsoil* Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Nov. 8th.	P	4 47 48	4	...	...	...	...	
	S	4 55 42	15	...	...	...	...	
	L	5 1 00	22	...	...	...	...	
	M	5 12 18	...	...	1379	...	...	
	F	6 28 00	...	...	...	...	...	
„ 18th	P	18 50 36	7	...	...	...	...	
	S	18 57 36	16	...	...	...	...	
	L	19 4 36	30	...	...	...	...	
	M	19 11 06	...	...	2448	...	...	
	F	19 41 36	...	...	...	...	...	
„ 23rd	P	23 6 36	4	...	...	...	...	
	S	23 13 36	6	...	...	...	...	
	L	23 19 24	8	...	...	...	...	
	F	23 45 12	...	...	...	...	...	
„ 29th	P	10 43 48	5	...	...	...	...	
	S	10 51 48	9	...	...	...	...	
	F	11 9 48	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6' N$; $\lambda = 77° 11' E$; $h = 2{\cdot}1$ km. *Subsoil* Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (Masses 50 Kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1918.		h. m. s.						
Nov. 8th	P	4 47 30	...	...	...	...	...	
	S	4 55 36	...	...	...	...	...	
	L	5 5 12	45	...	...	...	...	
	M	5 7 54	...	2207	1518	...	...	
	F	7 55 30	...	...	...	...	...	
„ 18th	i P	18 51 24	...	...	...	...	...	
	i S	18 59 42	...	...	...	...	...	
	e L	19 10 36	...	...	...	...	...	
	M	19 12 00	...	7 1714	...	...	...	
	F	21 58 48	...	...	...	...	...	
„ 21st	e	16 21 00	...	...	...	...	...	
	F	16 36 30	...	...	...	...	...	Slight tremors.
„ 23rd	P	23 7 30	...	...	...	...	...	
	S	23 15 42	...	...	...	...	...	
	L	23 26 42	...	...	...	...	...	
	M	23 27 36	...	...	...	...	...	
	F	23 57 42	...	...	...	...	...	
„ 29th	e P	10 43 00	...	...	...	...	...	
	S	10 43 54	...	...	...	...	...	
	L	10 44 24	10	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ)			Distance. Δ (Km.).	Remarks.
				An.	Ae.	Az.		
1918.		h. m. s.						
Nov. 29th	M	10 44 36	...	107	...	...	...	
	F	10 59 18	...	...	...	...	...	Felt at Kashgar.
„ 30th	i P	20 10 12	...	...	...	...	...	
	M	20 10 18	...	143	...	...	...	
	F	20 13 18	...	...	...	...	...	Slight local shock.
„ 30th	i P	21 1 42	...	...	...	..	...	
	M	21 1 48	...	125	...	..	...	
	F	21 2 54	...	...	...	...	...	Slight local shock.

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity, Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m.	sec.			
Drosh . . .	Nov. 14th	1 55	7	7	2	
Poo (Bashahr State)	„ 28th	16 05	3	4	1	
Kashgar . .	„ 29th	10 55	55	7	2	

S. SITARAMAYYA,
Scientific Assistant.

Weather in the Indian Ocean.

7. Pressure was normal at all the three stations and winds did not differ much from the average at Mauritius and Zanzibar; at Seychelles they were stronger than usual and the mean direction was N 29° W against a normal of S 56° E. Rainfall was in defect at all the three stations.

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure	0	+·001	—·004
Actual mean wind direction . .	S 86° E	S 22° E	N 29° W
Normal mean wind direction . .	S 82° E	S 45° E	S 56° E
Actual mean wind velocity (miles per diem).	199	70	113
Normal mean wind velocity (miles per diem).	182	82	93
Rainfall departure from normal .	—0·42	—5·86	—1·49

Depressions and cyclonic storms.

8. The depression, which was mentioned in the Review for October as having passed into the Arabian Sea near Malabar on the 2nd November, appears to have travelled from there in some northwesterly direction and reached to about midway between Bombay and the Kuria Muria Islands on the 8th, causing some rough weather there; but information about it is meagre.

A depression was forming in the south of the Bay on the 8th and 9th, and on the morning of the 10th its centre lay nearly 300 miles east of Negapatam. It then travelled in a northwesterly direction and increased in intensity during the day, developing into a moderately severe cyclone by midnight when the centre lay close to Madras. The storm had apparently developed a calm centre because, according to the Meteorologist, Madras, there was a lull (at that station) between 1 hr. 5 mts. A.M. and 1 hr. 25 mts. A.M. when the winds were very light. The barometer fell a quarter of an inch between midnight and 1 A.M. The storm raged

there from 20 hrs. on the 10th to 3 hrs. on the 11th, uprooting many hundreds of big trees and thereby causing interference with telegraph, telephone, tram and local railway services for some days. The disturbance became subsequently very feeble and reached the Konkan coast on the 13th, but it does not appear to have redeveloped.

Another depression formed on the 15th of the month in the southwest of the Bay. Till the morning of the 17th the centre lay about 200 miles east of Pamban. The depression then began to move in a northeasterly direction and had its centre about 200 miles east of Nellore on the morning of the 21st. The disturbance increased in intensity during the 17th and at midnight *S. S. Seapool* whose positions day by day are not available but which was very probably close to the centre on the 17th and 18th, experienced heavy gales with hurricane force, heavy sea and torrential rain. The barometer on that ship fell 0·14 inch between 20 hrs. of the 17th and midnight and rose 0·1 inch between midnight and 4 hrs. on the 18th. On the 17th some heavy falls of rain were recorded in the South Arcot and Tanjore districts, a place called Vedaranyam in the latter district having received the exceptionally heavy fall of 19·69 inches. The storm began to abate on the 18th and after the 21st appears to have become a mere diffuse low.

A winter disturbance caused precipitation in the extreme north of the country on the first two days of the month and rainfall extended on the 3rd to the submontane districts of the United Provinces West. Another disturbance caused a few light falls of snow in Kashmir on the 16th and 17th. Unsettled conditions occurred in Persia on several other occasions, but they did not affect the weather in India.

Pressure.

9. Pressure was about normal in Burma, northeast India and the United Provinces, and in defect generally elsewhere, the amount of deficiency being highest from Gujarat to south Madras. The mean pressure over the plains of India was 0·018″ in defect.

The vertical gradient was steep between Murree and Peshawar and weaker than usual in south India.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·001
Assam	+ ·009
Bengal	+ ·001
Bihar and Orissa	— ·003
United Provinces	—·001
Punjab	—·009
North-West Frontier Province	—·009
Sind	— ·017
Rajputana	—·020
Bombay	—·045
Central India	—·019
Central Provinces	—·024
Hyderabad	—·032
Mysore	—·038
Madras	—·042

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	″		″	″
Quetta	—·007	Jacobabad	—·012	—·005
Leh	—·017	Lahore	—·012	+ ·005
Murree	—·048	Peshawar	—·008	+ ·040
Simla	—·003	Ludhiana	—·021	—·018
Mukteswar	—·002	Bareilly	+ ·002	+ ·004
Darjiling	—·014	Dhubri	+ ·005	+ ·019
Mount Abu	—·036	Deesa	—·036	0
Pachmarhi	—·026	Khandwa	—·031	—·005
Kodaikanal	—·019	Madura	—·049	—·030

Temperature.

10. Maximum temperature was above normal in the area lying between Gujarat and the north Konkan on the west and Chota Nagpur on the east; minimum temperature was above normal in the Peninsula generally. Otherwise temperature did not differ much from the average.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	85·5	77·5	81·5	8·1	—0·5	+0·3	—0·8
2. Lower Burma	87·8	73·2	80·5	14·6	+1·7	+1·3	+0·4
3. Upper Burma	82·9	64·0	73·4	18·9	—0·3	—0·2	—0·1
4. Assam	80·6	60·9	70·8	19·6	—0·1	—0·3	+0·2
5. Bengal	84·2	63·9	74·1	20·3	+1·4	—0·1	+1·5
6. Orissa	86·2	66·8	76·5	19·4	+1·8	+3·1	—1·3
7. Chota-Nagpur	84·1	56·8	70·5	27·3	+2·3	—0·8	+3·1
8. Bihar	83·9	58·3	71·1	25·5	+1·5	—1·7	+3·2
9. United Provinces, East	84·8	54·7	69·8	30·1	+1·8	—1·5	+3·3
10. Do., do., West	84·4	53·5	68·9	30·9	+0·4	—0·5	+0·9
11. Punjab, East and North	82·0	49·9	65·9	32·0	—0·1	—0·5	+0·4
12. Do., Southwest	83·5	50·8	67·1	32·7	—0·6	—0·6	0
13. Kashmir	52·3	28·5	40·6	23·9	—6·8	—3·4	—3·4
14. North-West Frontier Province	79·4	47·4	63·5	32·0	—0·5	+0·3	—0·8
15. Baluchistan	72·1	38·3	55·2	33·7	—0·2	—2·7	+2·5
16. Sind	87·7	59·2	73·5	28·5	+1·1	+0·1	+1·0
17. Rajputana, West	89·4	57·4	73·5	32·0	+1·0	+1·4	—0·4
18. Do., East	86·7	56·3	71·6	30·5	+0·4	+0·2	+0·2
19. Gujarat	92·9	64·9	78·9	28·0	+2·6	+2·1	+0·5
20. Central India, West	88·1	57·9	73·0	30·3	+3·9	+3·3	+0·6
21. Do. do., East	84·2	54·0	69·1	30·2	+2·3	+0·5	+1·8
22. Berar	89·6	63·6	76·6	26·0	+4·1	+3·4	+0·7
23. Central Provinces, West	86·7	57·5	72·1	29·2	+2·7	+1·4	+1·3
24. Do. do., East	85·5	59·7	72·6	25·8	+3·0	+0·6	+2·4
25. Konkan	90·3	74·1	82·2	16·3	+1·9	+3·1	—1·2
26. Bombay Deccan	88·9	69·9	76·4	25·0	+2·9	+4·4	—1·5
27. Hyderabad, North	89·7	63·9	76·9	25·7	+5·1	+3·7	+1·4
28. Do., South	88·0	68·7	78·3	19·2	+1·9	+4·8	—2·9
29. Mysore	82·1	66·6	74·3	15·6	+0·4	+4·1	—3·7
30. Malabar	87·1	75·4	81·2	11·7	+0·7	+1·7	—1·0
31. Madras, South-east	85·8	73·9	79·9	11·9	—0·2	+2·6	—2·8
32. Do., Deccan	87·4	71·7	79·5	15·7	—0·7	+5·3	—6·0
33. Do. Coast, North	83·3	73·4	78·3	9·8	—0·5	+3·1	—3·6

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·8	+0·6	+0·7
Assam	—0·1	—0·3	—0·2
Bengal	+1·4	—0·1	+0·6
Bihar and Orissa	+1·8	+0·1	+0·9
United Provinces	+1·3	—1·1	+0·1
Punjab	—0·3	—0·5	—0·4
North-West Frontier Province	—0·5	+0·3	—0·1
Sind	+1·1	+0·1	+0·5
Rajputana	+0·5	+0·5	+0·5
Bombay	+2·6	+3·1	+2·8
Central India	+3·1	+1·9	+2·5
Central Provinces	+3·2	+1·7	+2·5
Hyderabad	+2·5	+4·6	+3·5
Mysore	+0·4	+4·1	+2·3
Madras	—0·2	+2·9	+1·4

Winds.

11. The following table shows the mean wind velocity and steadiness during the month and their departures from the normal.

TABLE 13.

DIVISION.	HOURLY WIND VELOCITY.		WIND STEADINESS.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·1	—0·3	49	— 1
Assam	2·0	0	31	— 6
Bengal	1·2	—0·4	37	— 8
Bihar and Orissa	1·8	0	40	+ 3
United Provinces	1·0	—0·2	11	— 7
Punjab	1·6	+0·4	24	+ 8
North-West Frontier Province	0·8	—0·2	5	— 7
Sind	2·9	—0·8	51	+11
Rajputana	1·9	—0·1	23	0
Bombay	3·8	—0·7	52	— 5
Central India	1·7	—0·4	23	— 9
Central Provinces	2·6	+0·4	51	+13
Hyderabad	5·3	+0·8	65	+20
Mysore	4·1	—0·1	59	—11
Madras	4·0	+0·3	46	— 9

The wind directions at some of the stations in northern India had an abnormal easterly component and the winds at Quetta, Ludhiana and Leh had a very unusual northerly component.

Humidity and cloud.

12. The following table shows the actual monthly means of these elements and their departures from the normal.

TABLE 14.

DIVISION.	HYGROMETRY; 8 HRS.				CLOUD.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . . .	86	0	·742	+·022	5·0	+1·0
Assam . . .	89	— 1	·567	—·023	3·3	+0·2
Bengal . .	80	— 4	·595	—·028	2·9	+1·0
Bihar and Orissa .	69	— 8	·475	—·033	3·1	+1·9
United Provinces .	60	—11	·351	—·060	0·8	0
Punjab . .	57	— 7	·272	—·038	1·1	—0·2
North-West Frontier Province.	67	+ 1	·273	—·014	0·2	—1·7
Sind . . .	46	—12	·306	—·101	0·3	—1·0
Rajputana . .	40	— 9	·246	—·063	1·1	+0·1
Bombay . .	54	— 6	·474	—·024	2·9	+1·4
Central India .	52	—11	·351	—·053	1·4	+0·3
Central Provinces .	49	—12	·354	—·059	3·2	+1·5
Hyderabad . .	58	— 4	·509	+·004	4·9	+2·7
Mysore . .	82	+ 7	·629	+·071	6·9	+2·7
Madras . .	84	+ 5	·794	+·069	6·7	+2·5

Rainfall.

13. The month's fall was in excess in the Bay Islands, Lower Burma, Kashmir, Central India, Berar, the Central Provinces West, the Konkan, the Bombay Deccan, Hyderabad South, Mysore and Madras, and in defect elsewhere. The monsoon was very vigorous in the Peninsula and the actual fall during the month in Madras, Mysore and the Konkan was more than double the normal amount.

Precipitation was in excess at Baghdad and Kashgar, but in defect generally at the Persian stations.

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	12·0	9·3	7·45	5·61	+1·84	+ 33
2. Lower Burma	3·7	3·6	3·11	2·72	+0·39	+ 14
3. Upper Burma	3·0	3·0	1·36	1·78	—0·42	— 24
4. Assam	0·7	1·5	0·36	0·89	—0·53	— 60
5. Bengal	0·3	0·8	0·12	0·74	—0·62	— 84
6. Orissa	0·2	1·2	0·15	1·16	—1·01	— 87
7. Chota Nagpur	0	0·8	0	0·52	—0·52	—100
8. Bihar	0	0·6	0	0·39	—0·39	—100
9. United Provinces, East	0·3	0·3	0·07	0·20	—0·13	— 65
10. Do. de., West	0·4	0·2	0·15	0·16	—0·01	— 6
11. Punjab, East and North	0·3	0·2	0·12	0·14	—0·02	— 14

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
12. Punjab, Southwest	0	0·2	0·01	0·10	−0·09	− 90
13. Kashmir	1·3	0·6	0·68	0·58	+0·10	+ 17
14. North-West Frontier Province	0·5	0·5	0·16	0·35	−0·19	− 54
15. Baluchistan	0·1	0·6	0·01	0·36	−0·35	− 97
16. Sind	0	0·1	0	0·06	−0·06	−100
17. Rajputana, West	0	0·1	0·01	0·08	−0·07	− 87
18. Do., East	0·4	0·2	0·15	0·16	−0·01	− 6
19. Gujarat	0	0·3	0·01	0·20	−0·19	− 95
20. Central India, West	0·8	0·3	0·54	0·44	+0·10	+ 23
21. Do., East	0·9	0·4	0·60	0·39	+0·21	+ 54
22. Berar	0·9	0·8	0·91	0·55	+0·36	+ 65
23. Central Provinces, West	1·0	0·6	0·80	0·58	+0·22	+ 38
24. Do., East	0·7	0·7	0·32	0·42	−0·10	− 24
25. Konkan	3·4	1·3	2·23	0·86	+1·37	+159
26. Bombay Deccan	2·5	1·3	1·64	0·86	+0·78	+ 91
27. Hyderabad, North	1·0	1·2	0·48	0·75	−0·27	− 36
28. Do., South	2·4	1·7	1·13	0·90	+0·23	+ 26
29. Mysore	8·9	3·3	7·19	2·10	+5·09	+242
30. Malabar	12·3	5·2	11·06	3·92	+7·14	+182
31. Madras, Southeast	14·0	7·6	13·65	6·62	+7·03	+106
32. Do., Deccan	6·7	2·9	4·92	1·90	+3·02	+159
33. Do. Coast, North	6·5	3·2	7·14	3·19	+3·95	+124

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	2·04	2·15	−0·11	− 5
Assam	0·36	0·89	−0·53	−60
Bengal	0·12	0·74	−0·62	− 84
Bihar and Orissa	0·04	0·60	−0·56	−93
United Provinces	0·11	0·18	−0·07	−39
Punjab	0·09	0·13	−0·04	−31
North-West Frontier Province	0·16	0·35	−0·19	−54

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·06	−0·06	−100
Rajputana	0·11	0·13	−0·02	− 15
Bombay	1·22	0·65	+0·57	+ 88
Central India	0·56	0·42	+0·14	+ 33
Central Provinces	0·62	0·50	+0·12	+ 24
Hyderabad	0·79	0·82	−0·03	− 4
Mysore	7·19	2·10	+5·09	+242
Madras	10·43	4·79	+5·64	+118
Mean of India	1·69	1·09	+0·60	+ 55

Snowfall.

I.—AFGHANISTAN.

14. About a foot of snow fell on the 16th on the Paghman Samai, Shakardara, Khak Jabbar and Hindu Kush ranges and about three inches of it was still lying at the end of the month in the first three places.

II.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—About three inches fell on the 16th and two inches on the 17th at Marwatti and Pirghal (11,000 feet); this is considered a normal fall. The snow melted away on the 18th.

(*b*) *Drosh.*—There were three falls during the month; the first two were slight, but the third which occurred on the 30th was heavy, the depth being about five feet on high ranges. The snow was disappearing from the southern aspect of those ranges, but on the northern side they remained covered to a depth of two or three feet at the end of the month.

III.—KASHMIR.

(*a*) *Srinagar.*—Snow fell on mountains on the 2nd, 3rd and 17th; this is more frequent than usual.

(*b*) *Skardu.*—No snow fell at the station, but on the hills and ranges surrounding the station it fell on 4 days—the 1st, 2nd, 17th and 29th. The falls were generally light, but reached a depth of 4 or 5 inches on the higher ranges on the 1st. Nearly half a foot of snow was lying at the end of the month on the higher ranges and an inch or two on the lower hills. The month's fall as well as the accumulation are considered to be above the average.

(*c*) *Dras.*—There was snow on the 1st, 2nd and 3rd, the total fall being equivalent to an inch of rain.

(*d*) *Kargil.*—The higher mountains and peaks (15,000 feet) received on an average nearly a foot and a half of snow on the 1st and half a foot on the 2nd. At the station level 3 to 4 inches fell on the 1st and about 1¼ inches on the 2nd.

(*e*) *Leh.*—Very little snow fell at Leh itself from October to December, but there were frequent falls on surrounding mountains.

IV.—PUNJAB.

(*a*) *Kulu (Kangra).*—Snowfall occurred on the 1st, 2nd and 3rd down to 8,000 feet; it was very heavy above 10,000 feet and temporarily closed the Rohtang Pass (13,000 feet). There was again a heavy fall on the 30th giving snow down to below 6,000 feet. All peaks and ridges above 12,000 feet were thickly coated even before the fall of the 30th.

(*b*) *Kilba (Simla Hills).*—Snowfall occurred on 4 days; it came down to 11,000 feet on the 1st November, 9,000 feet on the 2nd, 7,000 feet on the 3rd and 9,000 feet on the 29th. The depths varied between 4 and 6 inches. The accumulations at the end of the month were :—

Chilkul	pass	6 feet.
Rupan	„	5 „
Brua	„	5 „
Shatul	„	5 „
Harang	„	3 „

(*c*) *Poo (Bashahr State).*—There was a slight fall on the 2nd, and 3 inches and 6 inches fell on the 3rd and 4th respectively.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—Three to four feet of snow fell during the month on the high peaks in the north of the district.

(*b*) *Almora.*—Reports from Patwaris are as follows :—

TABLE 17. Actual fall.

Locality.	Depth.		Descent below perpetual snowline.
	Feet.	Inches.	
Malla Danpur	4	0	3 to 4 miles.
Malla Darma	3	0	7 miles.
Malla Johar	*Nil*		
Byans	12	6	
Chaudas	3	6	3 miles.

TABLE 18. Accumulations.

Name of pass or peak.	Reported.	Normal.
	Feet.	Feet.
Nuwo pass	12	25½
Binkaru pass	7	13½
Lampia „	14	10
Lipulekh „	10	7½
Pindari peak	6	2
Kaphini „	6	2
Nandakot	6	...

VI.—EASTERN HIMALAYAS.

(*a*) *Sikkim.*—No snow fell at or in the vicinity of Gangtok. Yatung had over 4 feet of snow.

(*b*) *North-East Frontier District.*—November was drier than usual and the snowline was very high. No snow was observed on Sita (11,700 feet) and there were only occasional sprinklings on Chi and Poi (13,000 feet) and Dapha Bum (15,200 feet).

Summary.

15. The western Himalayas as well as the mountains in Afghanistan had, on the whole, more snow than usual.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in November, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea level and to gravity at 45° lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	30·011	29·893	·118	29·948	—·016	29·916	84·5	65·2	19·3	90·3	57·7	32·6	78·9	81·8	74·2	+1·8	63·2	69·0	69·0	67·1
	VI.—Punjab.																					
11	Lahore .	702	29·322	29·234	·088	29·270	—·016	29·958	81·9	49·1	32·8	88·8	42·9	45·9	68·7	80·7	63·5	+0·3	46·0	56·8	62·5	55·1
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·615	28·513	·102	28·555	—·007	29·939	85·6	55·5	30·1	95·5	46·2	49·3	78·3	83·6	69·0	+0·1	47·4	57·3	59·6	54·8
	X.—Bombay.																					
25	Bombay . .	37	29·910	29·799	·111	29·863	—·050	29·890	89·7	75·5	14·2	93·6	72·3	21·3	82·3	85·3	81·8	+2·5	63·8	73·0	75·5	72·3
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·978	26·872	·106	26·924	—·023	29·778	81·3	65·8	15·5	85·3	61·5	23·8	75·6	77·5	72·6	+3·0	64·5	68·3	68·3	67·0
	XV.—Madras.																					
31	Trivandrum . .	198	29·732	29·626	·106	29·681	—·030	29·611	84·4	75·1	9·3	86·7	73·1	13·6	81·1	82·3	79·0	+1·3		76·6	77·2	
	Pudukkottai .	318	29·627	29·489	·138	29·558		29·807	86·8	74·5	12·3	94·4	70·1	24·3	80·7	83·6	80·6			74·9	74·9	
	Madras . .	22	29·936	29·823	·103	29·877	—·049	29·830	83·7	75·0	8·7	87·6	70·9	16·7	80·9	80·8	78·6	+0·7	73·9	77·1	76·9	76·0
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·749	25·655	·094	25·699	+·001	25·653	73·8	44·3	29·5	77·6	39·3	38·3	59·8	68·1	58·6	+0·8	42·2	53·4	55·6	50·4
	Kodaikanal . .	7,688	22·849	22·777	·072	22·813		22·748	61·2	51·5	9·7	64·9	47·0	17·9	57·4	57·2	56·3		50·5	55·7	55·5	53·9
	Extra India.																					
	Seychelles . .	15	29·971	29·878	·093	29·938	—·004†	29·875	83·7	77·7	6·0	85·5	74·8	10·7	81·5	82·3	79·2	+1·7†	70·9	76·4	76·5	74·6
	Mauritius . .	181				29·885	0	29·952	82·6	67·8	14·8	86·7	63·3	23·4			74·5	−0·5				68·0

N. B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,300 feet.

† Departure from old normal.

A.

at 12 stations in India, etc., in November, 1918.

VAPOUR TENSION IN INCHES OF MERCURY.					HUMIDITY.					CLOUD.				WIND DIRECTION.											WIND STEADINESS.		WIND VELOCITY.		RAINFALL.		STATION.	Number of subdivision.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
24	25	26	7	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	54	55	56
																															III.—Bengal.	
·560	·578	·510	·574	—·004	89	58	50	69	— 5	2·9	5·0	3·9	+1·4	1	6	8	4	1	1	8	8	22	N 45° W	N 12° W	47	58	46	44	0·04	0·03	Calcutta.	5
																															VI.—Punjab.	
·273	·305	·344	·287	— 019	78	44	31	55	— 2	1·0	1·1	1·1	—0·4	35	1	1	4	5	2	0	1	11	N 7° W	N 42° W	7	18	16	23	0·10	0·05	Lahore.	11
																															IX.—Rajputana.	
·232	·214	·216	·222	—·075	52	22	19	36	—11	1·2	1·3	1·3	—0·2	9	7	4	9	7	2	4	7	11	N 6° W	N 24° W	13	35	53	47	0	0	Jaipur.	18
																															X.—Bombay.	
·597	·689	·754	·705	—·011	68	62	62	68	— 5	3·1	3·3	3·2	+1·5	0	0	12	14	5	1	0	9	19	N 11° E	N 18° E	30	51	129	168	0·09	0·09	Bombay.	25
																															XIV.—Mysore.	
·593	·607	·585	·608	+·069	94	69	63	78	+ 3	8·3	7·8	8·1		1	6	22	22	7	1	0	0	1	N 69° E	N 60° E	75	68	131	88	5·82	3·74	Bangalore.	29
																															XV.—Madras.	
	·849	·865				80	79			8·4	9·3	8·9	+3·2	14	5	3	1	2	6	10	14	5	S 80° W	N 81° W	33	48	68	61	3·67	1·00	Trivandrum.	31
	·789	·748				76	66			6·7	6·7	6·7		26	6	8	3	3	4	2	4	4	N 24° E		12		71		13·45	2·19	Pudukkottai.	
822	·881	·870	·877	+·081	95	84	83	90	+ 6	7·9	8·3	8·1	+2·2	3	26	9	9	3	2	1	0	7	N 20° E	N 27° E	61	62	80	114	42·85	6·23	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·245	·337	·300	·294	—·042	85	65	44	69	— 6	3·7	2·7	3·2	+0·6	0	0	0	30	0	0	0	30	0	(a)	N 81° W	(a)	42	6	10	0·08	0·08	Katmandu.	
·359	·426	·423	·403		94	91	91	92		8·8	8·9	8·9		0	4	1	5	22	9	1	5	13	S 29° E		22		204		14·00	1·85	Kodaikanal.	
																															Extra India.	
·665	·842	·835	·806	—·030	70	79	76	78	— 5	5·0	6·0	5·5	—1·4†	10	3	6	4	5	9	0	2	21	N 29° W	S 56° E	18	14	113	93	8·92	5·15	Seychelles.	
			·779	—·016				69	0			5·5	+0·6										S 86° E	S 82° E			199	182	1·35	0·26	Mauritius.	

(a) Indeterminate. † Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in November 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·001	85·8	+0·8	69·4	+0·6	77·6	+0·7	16·4	—0·3	— 1	86	0	·742	+·022	5·0	+1·0	2·04	2·15	—0·11
Assam	+·009	80·6	—0·1	60·9	—0·3	70·8	—0·2	19·6	0	— 6	89	— 1	·567	—·023	3·3	+0·36	0·36	0·89	—0·53
Bengal	+·001	84·2	+1·4	63·9	—0·1	74·1	+0·6	20·3	—0·4	— 8	80	— 4	·595	—·028	2·9	+1·0	0·12	0·74	—0·62
Bihar and Orissa	—·003	84·6	+1·8	60·5	+0·1	72·5	+0·9	24·2	0	+ 3	69	— 8	·475	—·033	3·1	+1·9	0·04	0·60	—0·56
United Provinces of Agra and Oudh	—·001	84·6	+1·3	54·1	—1·1	69·4	+0·1	30·5	—0·2	— 7	60	—11	·351	—·066	0·8	0	0·11	0·18	—0·07
Punjab	—·009	82·5	—0·3	50·2	—0·5	66·3	—0·4	32·3	+0·4	+ 8	57	— 7	·272	—·038	1·1	—0·2	0·09	0·13	—0·04
North-West Frontier Province	—·009	79·4	—0·5	47·4	+0·3	63·5	—0·1	32·0	—0·2	— 7	67	+ 1	·273	—·011	0·2	—1·7	0·16	0·35	—0·19
Sind	—·017	87·7	+1·1	59·2	+0·1	73·5	+0·5	28·5	—0·8	+11	46	— 12	·306	—·101	0·3	—1·0	0	0·06	—0·06
Rajputana	—·020	87·8	+0·5	56·7	+0·5	72·3	+0·5	31·1	—0·1	0	40	— 9	·246	—·062	1·1	+0·1	0·11	0·13	—0·02
Bombay	—·045	91·1	+2·6	66·1	+3·1	78·6	+2·8	25·0	—0·7	— 5	54	— 6	·474	—·024	2·9	+1·4	1·22	0·65	+0·57
Central India	—·019	86·2	+3·1	55·9	+1·9	71·1	+2·5	30·3	—0·4	— 9	52	—11	·351	—·053	1·4	+0·3	0·56	0·42	+0·14
Central Provinces	—·024	87·0	+3·2	59·6	+1·7	73·3	+2·5	27·4	+0·4	+13	49	—12	·354	—·059	3·2	+1·5	0·62	0·50	+0·12
Hyderabad	—·032	88·5	+2·5	67·1	+4·6	77·9	+3·5	21·4	+0·8	+20	58	— 4	·500	+·004	4·9	+2·7	0·79	0·82	—0·03
Mysore	—·038	82·1	+0·4	66·6	+4·1	74·3	+2·3	15·6	—0·1	—11	82	+ 7	·629	+·071	6·9	+2·7	7·19	2·10	+5·09
Madras	—·012	85·6	—0·2	73·7	+2·9	79·7	+1·4	11·8	+0·3	— 9	84	+ 5	·794	+·069	6·7	+2·5	10·43	4·79	+5·64

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·867		29·885	29·946	30th	29·772	16th	79·3	75·9	85·7		75·5		80·6		10·2	89·3	23rd	73·7	18th
	Mergui	66	29·914	+·004	29·9·9	29·936	3·th	29·879	6th	78·0	75·1	87·7	+0·4	73·2	+2·8	80·4	+1·6	14·5	89·8	22nd	71·1	23rd
	Tavoy	19	29·951	−·021?	29·901	30·002	30th	29·915	16th	78·8	74·9	90·1	+2·3	65·3	−0·3?	79·7	+1·0?	20·8	91·9	3rd & 4th.	66·4	30th
	Moulmein	94	29·918	−·003	29·931	29·977	30th	29·866	4th	79·3	75·5	91·3	+2·8	73·9	+2·3	82·6	+2·5	17·4	93·5	18th	71·8	30th
	Rangoon	18	29·975	+·001	29·931	30·056	30th	29·857	4th	78·2	74·5	90·9	+3·5	74·2	+1·6	82·6	+2·5	16·7	92·5	3rd	72·3	3 th
	Bassein	27	29·976	+·009	29·939	30·048	30th	29·938	21st	78·7	75·4	89·8	+3·8	73·9	+2·1	81·8	+2·9	15·9	92·2	3rd & 13th	70·1	·0th
	Diamond Island	41	29·926	−·012?	29·902	29·991	30th	29·868	21st	81·9	79·5	87·4	+2·0	77·2	+1·5	82·3	+1·7	10·2	90·6	5th	74·0	0th
	Toungoo	164	29·830	−·002	29·938	29·903	30th	29·787	21st	74·8	72·7	87·5	+0·6	69·8	0	78·6	+0·3	17·7	90·7	1st	62·5	30th
	Kyaukpyu	18	29·963		29·921	30·047	30th	29·912	21st	78·0	74·7	83·8		74·7		79·3		9·1	88·0	17th	71·2	28th
	Akyab	20	29·959	−·015	29·921	30·052	30th	29·907	20th	74·9	72·2	83·6	−1·2	70·2	−0·9	76·9	−1·1	13·4	87·8	17th	64·0	28th
3	Minbu	*165*	29·838	−·020	29·949	29·930	30th	29·778	21st	74·7	71·0	83·8	−3·5?	70·8	+2·3	77·3	−0·6?	13·0	88·7	3rd	62·6	28th
	Yamethin	644	29·352	−·005	29·957	29·421	30th	29·301	24th	73·4	70·8	85·4	−1·7	69·1	+1·9	77·2	+0·1	16·3	90·0	12th	60·8	30th
	Mandalay	250	29·772	+·011	29·975	29·871	30th	29·704	20th	74·2	70·4	87·3	+0·1	68·8	+1·1	78·1	+0·6	18·5	93·2	4th	61·7	30th
	Monywa	*280*	29·757	+·007	29·992	29·850	30th	29·679	24th	72·7	68·8	86·2	+0·9	68·8	+1·4	77·5	+1·1	17·4	90·6	3rd	63·7	29th
	Lashio	*2,820*	27·218	−·010	27·164	27·289	30th	27·141	24th	62 ·	60·9	76·1	−1·5	57·9	+2·9	67·0	+0·7	18·2	79·7	7th & 11th	51·0	8th
	Bhamo	*361*	29·661	+·006	29·991	29·741	30th	29·581	24th	63·4	61·9	80·6	−0·3	55·9	−4·9	68·3	−2·1	24·7	86·8	1st	50·6	26th
	Myitkyina	458	29·567	+·007	30·007	29·651	14th	29·479	24th	61·2	61·4	80·6	+0·4	56·6	−4·7	68·6	−2·1	24·0	84·2	1st	52·4	27th
	II.—Assam.																					
	Dibrugarh	353	29·695	0	30·024	29·762	30th	29·641	21st	64·6	62·6	79·5	+0·3	59·3	−0·6	69·4	−0·1	20·2	82·1	4th	53·5	18th
	Sibsagar	333	29·732	+·001	30·039	29·803	14th	29·672	21st	62·6	61·8	76·8	−1·1	58·5	−1·2	67·7	−1·1	18·3	78·9	8th & 21st	53·4	18th
	Tezpur	252	29·815	+·020	30·036	29·889	30th	29·755	4th	64·2	62·2	80·4	+0·1	61·3	+0·5	70·9	+0·3	19·1	83·2	4th	56·8	17th
	Gauhati	196	29·861	+·001	30·019	29·941	30th	29·806	21st	66·1	64·3	80·6	−1·2	60·6	+0·1	70·6	−0·5	20·0	84·1	5th	55·5	23rd
	Dhubri	115	29·926	+·005	29·998	29·992	14th	29·857	20th & 21st	69·3	65·5	80·3	+0·2	61·3	+1·0	72·3	+0·6	16·0	84·5	5th	60·1	27th
	Silchar	104	29·953	+·025	30·011	30·024	14th & 30th	29·863	20th	69·3	66·3	85·9	+1·0	61·7	−1·8	73·8	−0·4	24·2	91·2	19th	56·2	10th
	Srimangal	66	29·964		29·982	30·033	14th	29·887	20th	65·7	64·3	87·8	+1·4	57·3?	−2·0?	72·5?	−0·3?	30·5?	93·3	20th	50·6	10th
	III.—Bengal.																					
5	Cox's Bazar	36	29·953		29·934	30·013	30th	29·853	21st	73·8	70·0	85·4		66·3		75·9		19·1	90·7	18th	59·7	29th
	Chittagong	87	29·920	+·002	29·855	30·007	30th	29·820	21st	69·4	67·3	84·0	+1·0	64·3	−1·2	74·1	−0·1	19·7	88·0	20th	58·5	14th & 15th
	Noakhali	43	29·975	+·011	29·966	30·058	30th	29·885	21st	71·4	67·9	84·6	+1·9	65·2	+1·7	74·9	+1·8	19·4	88·8	19th	59·0	27th
	Barisal	12	29·997	+·009	29·956	30 068	30th	29·895	21st	73·1	68·9	83·3	+0·3	66·0	+1·0	74·6	+0·7	17·3	87·7	20th	58·0	27th
	Narayanganj	26	29·993	+·003	29·969	30·0·9	14th	29·904	20th	71·4	67·5	84·7	+1·3	65·9	0	75·3	+0·7	18·8	89·9	19th	57·8	26th

N. B.—Elevations in italics indicate barometrical determinations.

B.

stations in India, etc., in November, 1918.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
5	5	15	3	1	0	0	0	1	N 41° E		4·8			66		85		·851		6·4		10		4·31	6·56	− 2·15	127·60	163·3	−35·79	1·10	Victoria Point.
30	0	0	0	0	0	0	0	0	Calm	N 29° E	?	1·2		(a)		87	+ 5	·840	+ ·067	3·5	−0·2	5	−1·0	2·25	3·79	− 1·54	142·44	151·09	− 8 65	0·64	Mergui.
16	1	6	3	2	2	0	0	0	N 75° E	N 29° E	1·6	0·9	+ 0·7	30	+22	85	+ 2	·821	+ ·061	4·5	+2 6	6	+2·0	1·59	2·45	− 0·86	220 00	209·38	+ 10·62	0·42	Tavoy.
8	0	11	6	5	0	0	0	0	N 76° E	N 4° E	4·2	1·8	+2·4	56	+34	84	0	·829	+ ·057	4·3	+1·2	1	−1·7	1·82	2·21	− 0·39	195·01	184·89	+ 10·12	1·78	Moulmein.
1	11	13	3	0	0	0	0	2	N 27° E	N 58° E	3·2	2·8	+ 0·4	79	+19	83	− 3	·808	+ ·028	6·6	+ 3·0	3	−0·1	1·11	2·73	− 1·62	86·47	96 42	− 9 95	0·61	Rangoon.
17	1	3	6	2	0	0	0	1	N 74° E	N 56° E	2·7	2·6	+ 0·1	30	−29	85	− 2	·837	+ ·060	5·4	+2 2	3	−1·1	2·07	3·22	− 1 15	95·91	107·23	−11·29	1·25	Bassein.
2	3	15	9	0	0	0	1	0	N 51° E	N 53° E	4·7	6·7	− 2·0	76	+ 3	90	+12?	·975	+ ·168?	4·6	+0·9	6	+0·8	5·16	5·03	+ 0·13	108·44	115·43	− 6·99	2·52	Diamond Island.
7	12	6	0	1	1	0	0	3	N 10° E	N 12° W	1·6	1·2	+ 0·4	56	+ 4	90	+ 1	·769	+ ·017	6·1	+1·5	3	+0·4	1·15	1·84	− 0 69	95·73	80·12	+15·61	0 62	Toungoo.
26	0	1	2	1	0	0	0	0	E		0·2			11		85		·819		5·1		8		4·99	5·33	− 0·34	203·74	172·60	+31·14	1·75	Kyaukpyu.
5	6	14	2	1	2	0	0	0	N 44° E	N 26° E	2·0	1·7	+ 0·3	59	−25	87	− 3	·751	+ ·005	5·7	+2·3	7	+3·5	14·70	4·08	+10·62	314·78	192·96	+121·82	4·39	Akyab.
6	1	0	0	2	0	0	0	21	N 43° W	N 48° W	1·7	5·2	−3·5	62	−11	82	+ 3	·704	+ ·038	4·2	+0·9	1	−1·4	0·57	1·82	− 1·25	39·73	33·17	+ 6·56	0·51	Minbu.
																87	+ 2	·717	+ ·030	4·7	+0 9	7	+4·4	3·35	1·67	+ 1·68	34·70	35·32	− 0·62	1·34	Yamethin.
30	0	0	0	0	0	0	0	0	Calm.	N 11° E	0·7	1·5	−0·8	(a)		82	− 3	·692	+ ·003	5·0	+1·6	5	+1·8	1·91	1·65	+ 0·26	27·03	31·52	− 4·49	0·49	Mandalay.
0	19	1	0	0	0	0	0	10	N 14° W		1·9			92		81	− 7	·619	− ·046	5·8	+1·3	0	−2·7	0·33	1·77	− 1·44	25·58	30·51	− 4·93	0·08	Monywa.
11	1	2	0	1	2	8	3	2	S 60° W		1·1			30		93	0	·520	+ ·016	4·5	−2·2	8	+3·8	4·04	2·60	+ 1·44	86·00	58·02	+27·98	1·45	Lashio.
25	2	3	0	0	0	0	0	0	N 27° E	N 23° E	0·6	1·2	−0·6	17	−22	91	0	·532	− ·047	4·2	+0·2	1	−1·7	0·21	1·50	− 1·29	77·55	68·54	+ 9·01	0·20	Bhamo.
27	1	2	0	0	0	0	0	0	N 31° E		1·9			7		85	− 1	·506	− ·077?	3·6	−1·1	0	−2·4	0	1·02	− 1·02	86·94	74·19	+12·75	0	Myitkyina.
																															II.—Assam.
25	0	1	3	1	0	0	0	0	E		0			15		89	0	·542	+ ·003	1·0	−2·4?	0	−2·4	0·20	1·26	− 1·06	86·46	89·47	− 3·01	0·09	Dibrugarh.
24	2	1	0	0	3	0	0	0	S 67° E	N 60° E	0·3	1·1	−0·8	2	−25	96	− 1	·545	− ·036	6·8	+1·1	1	−1·1	0·61	1·10	− 0·49	70·65	77·59	− 6·94	0·55	Sibsagar.
9	0	9	11	1	0	0	0	0	N 73° E		1·1			62		89	0	·538	− ·017	2·0	−0·6	0	−1·7	0	0·75	− 0·75	106·15	61·02	+45·13	0	Tezpur.
24	0	4	1	1	0	0	0	0	N 64° E		0·5			17		80	− 3	·577	− ·018	7·1	+1·6	0	−1·0	0·08	0·39	− 0·31	67·10	54·78	+12·32	0·08	Gauhati.
0	0	12	15	3	0	0	0	0	N 76° E	N 65° E	5·1	3·7	+1·4	86	+ 9	81	− 6	·580	− ·020	2·1	+0·5	0	− 0·5	0	0·34	− 0·34	93·68	87·46	+ 6·22	0	Dhubri.
28	0	0	2	0	0	0	0	0	E	N 79° E	0·7	1·2	−0·5	7	− 1	83	− 4	·597	− ·027	2·2	−1·6	0	−1·8	0	1·35	− 1·35	128·23	100·09	+28·14	0	Silchar.
																92	+ 4	·588	− ·023	1·8		0	−0·8	0	0·96	− 0·96	86·25	84·40	+ 1·85	0	Srimangal.
																															III.—Bengal.
21	1	6	1	1	0	0	0	0	N 52° E		1·1			27		82		·687		3·2		3		1·43	4·75	− 3·32	216·54	127·94	+88·60	0·85	Cox's Bazar.
10	3	17	0	0	0	0	0	0	N 39° E	N 43° E	2·0	2·0	0	62	−11	89	+1	·642	− ·031	3·8	+0·8	2	+0·3	0·48	1·86	− 1·38	116·54	91·65	+24·89	0·23	Chittagong.
11	1	15	1	0	0	0	1	1	N 40° E		0·8			53		83	− 4	·636	− ·035	2·7	+1·1	2	+0·4	0·87	1·75	− 0·88	113·00	110·26	+ 2·74	0·61	Noakhali.
20	5	5	0	0	0	0	0	0	N 23° E	N 18° E	0·6	1·2	−0·6	30	+ 5	80	− 4	·654	− ·026	3·7	+1·9	1	−0·5	0·15	1·55	− 1·40	84·23	72·98	+11·25	0·15	Barisal.
21	1	5	3	0	0	0	0	0	N 55° E	N 13° E	0·2	1·5	−1·3	27	−16	81	− 4	·627	− ·025	2·4	−0·1	0	−1·1	0	1·02	− 1·02	82·92	62·65	+20·27	0	Narayanganj.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld*																					
	Mymensingh	63	29·939	+·013	29·984	30·044	14th	29·886	21st	71·8	68·1	83·3	+1·0	61·9	+0·8	74·1	+0·9	18·4	96·5	7th	59·9	13th
	Bogra	75	29·951	+·002	29·980	30·046	14th	29·867	21st	67·6	65·2	83·4	+0·9	61·4	−1·2	72·4	−0·1	22·0	88·4	4th	56·0	13th & 24th.
	Dinajpur	123	29·900	−·006	29·982	29·985	14th	29·826	21st	66·4	62·8	82·5	0	59·7	−0·8	71·1	−0·4	22·8	87·8	6th	54·0	26th
	Jalpaiguri	283	29·755	+·004	30·008	29·848	14th	29·694	21st	65·2	62·8	81·8	+0·1	60·7	0	71·3	+0·1	21·1	84·1	1st	55·8	18th
	Saugor Island	10	30·012	+·002	29·968	30·089	30th	29·894	20th	75·8	69·8	84·5	+2·5	6·8	+0·8	76·2	+1·7	16·7	89·3	6th	59·7	27th
	Midnapore	149	29·856	−·009	29·963	29·963	30th	29·751	20th	71·8	62·7	86·6	+1·8	63·4	+0·1	75·0	+1·1	23·2	93·8	6th	56·3	26th & 27th.
	Calcutta	21	30·000	−·007	29·969	30·075	14th	29·892	20th	70·0	66·3	84·6	+2·6	65·1	+0·8	71·9	+1·7	19·5	90·3	6th	57·7	26th
	Jessore	30	29·997	+·006	29·974	30·067	14th	29·906	20th	71·1	66·7	81·9	+1·7	62·2	−1·5	73·6	+0·1	22·7	83·6	20th	54·6	28th
	Burdwan	99	29·919	−·013	29·969	30·010	30th	29·819	21st	68·5	62·9	85·1	+2·5	62·5	−1·7	74·3	+0·4	23·6	92·6	6th & 7th.	57·4	26th
	Berhampore	67	29·968	+·005	29·986	30·053	30th	29·889	20th & 21st.	68·8	64·4	83·8	+1·6	63·2	−0·9	73·5	+0·3	20·6	89·6	5th & 7th.	58·1	26th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·971	−·009	29·970	30·063	30th	29·858	20th	70·2	63·7	87·0	+3·0	64·2	+1·7	75·6	+2·3	22·8	92·3	7th	54·6	28th
	Hukitala (False Point)	29	29·889	−·008	29·959	30·081	30th	29·863	20th													
	Cuttack	80	29·942	−·007	29·965	30·041	29th	29·828	20th	73·4	68·8	86·8	+1·6	69·4	+3·5	78·1	+2·5	17·4	91·9	7th	63·4	17th
	Puri	24	29·936	−·008	29·961	30·082	30th	29·873	20th	74·2	69·6	84·5	−0·3	71·9	+3·3	78·2	+1·5	12·6	89·1	9th	67·0	17th & 28th.
	Angul	455	29·555	−·010	29·958	29·634	30th	29·437	20th	72·3	65·8	86·6	+2·1	65·5	+5·8	76·0	+3·9	21·1	92·8	8th	59·0	27th
	Sambalpur	486	29·530	−·030	29·980	29·601	30th	29·427	20th	69·8	63·2	86·1	+2·4	62·8	+1·4	74·5	+1·9	23·3	91·4	8th	55·0	27th
7	Chaibasa	*733*	29·277	−·005	29·990	29·351	30th	29·181	20th	65·9	60·6	85·5	+3·1	53·5	+0·7	72·5	+1·9	26·0	92·2	6th	52·2	27th
	Ranchi	2,128	27·291	+·021?	29·999	27·939	30th	27·825	20th	65·8	57·4	79·8	+1·8	57·1	−0·1	68·6	+0·7	22·4	86·6	6th	51·8	27th
	Purulia	*816*	29·202	+·001	29·996	29·293	30th	29·131	21st	63·4	58·8	87·2	+3·4	60·0	−0·5	73·6	+1·5	27·2	93·7	6th	52·3	26th
	Daltonganj	*730*	29·312*	+·002	30·034*	29·379	30th	29·236	2nd	60·1	55·1	81·1	+0·9	50·4	−3·1	67·2	−1·1	33·7	92·5	2nd	42·9	9th
8	Purnea	124	29·912	−·005	29·936	30·003	30th	29·843	21st	64·4	61·8	83·4	+0·4	57·6	−1·4	70·0	−0·5	24·8	86·3	6th	50·4	25th
	Monghyr	155	29·877		29·939	29·966	30th	29·797	2nd	69·3	61·6	83·3		60·5		71·9		22·8	89·6	6th	54·5	25th
	Darbhanga	165	29·887	+·017	30·013?	29·968	30th	29·825	21st	69·1	64·0	82·2	+0·5	57·9	−3·4	70·0	−1·5	24·3	89·1	6th	51·1	25th
	Pusa	188	29·845		29·997	29·951	30th	29·778	2nd	63·6	61·1	83·7		59·4		70·0		27·3	90·7	6th	49·8	25th
	Patna	183	29·865	+·006	30·010	29·949	30th	29·812	20th & 21st.	69·1	60·8	82·9	+1·0	60·1	−0·6	71·5	+0·2	22·8	89·5	2nd	52·7	25th
	Buxar	239	29·799	+·004	30·004	29·854	14th	29·703	21st	64·5	57·9	86·6	+2·4	57·7	−2·0	72·2	+0·2	28·9	94·3	4th	51·1	26th
	Gaya	372	29·674	+·008	30·017	29·752	30th	29·607	2nd	65·3	57·2	84·7	+1·3	58·6	−0·9	71·6	+0·2	26·1	91·8	3rd	52·5	26th
	Naya Dumka	489	29·537	+·004	29·986	29·614	30th	29·458	21st	68·5	60·4	85·2	+3·1	57·8	−2·1	71·5	+0·5	27·4	92·0	5th	50·6	26th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·769	+·001	29·996	29·847	14th	29·698	2nd	64·1	58·9	83·0	+1·1	55·8	−2·0	69·4	−0·5	27·2	89·1	6th	50·1	26th
	Benares	267	29·771	+·001	30·003	29·833	14th	29·688	2nd	65·8	58·6	85·1	+2·3	53·0	−2·5	69·1	−0·1	32·1	93·7	4th	46·7	26th
	Allahabad	309	29·749	+·020?	30·027	29·816	30th	29·661	2nd	66·0	56·8	86·5	+3·0	54·1	−1·1	70·3	+0·9	32·4	96·2	4th	47·5	26th
	Cawnpore	416	29·619	+·006	30·013	29·687	30th	29·517	2nd	61·6	55·2	85·0	+1·8	55·4	−0·7	70·2	+0·5	29·6	93·8	2nd & 4th.	43·5	25th & 26th.

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 29 days.

B—*continued.*

Stations in India, etc., in November, 1918 —*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Humidity, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
24	25	26	27	25			1	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
																															III.—Bengal—*concld.*
21	0	2	6	1	0	0	0	0	N 85° E	N 58° E	0·3	0·8	−0·5	27	− 6	81	− 6	·643	+ ·003	3·1	+0·7	0	— 0·9	0	0·81	— 0·81	95·01	84·25	+10·76	0	Mymensingh.
16	7	2	2	1	0	0	0	2	N 16° E	N 27° E	0·5	1·0	−0·5	30	− 8	87	+12	·591	−·005	2·9	+1·9	0	— 0·5	0	0·71	— 0·71	90·30	65·31	+24·99	0	Bogra.
11	6	10	2	0	0	0	0	1	N 31° E	N 21° E	1·1	1·6	−0·5	53	− 2	81	− 2	·525	−·045	2·5	+1·2	0	— 0·4	0	0·25	— 0·25	102·51	65·72	+36·79	0	Dinajpur.
15	5	1	5	0	0	0	0	4	N 20° E	N 20° E	0·3			31	−25	87	+ 3	·541	−·011	1·2	+0·1	1	+ 0·6	0·23	0·22	+ 0·01	133·14	114·71	+18·43	0·23	Jalpaiguri.
1	12	12	1	0	0	0	1	3	N 16° E	N 19° E	5·2	4·3	+0·9	79	+ 6	81	− 5	·680	−·001	4·7	+2·0	0	— 1·4	0	1·45	— 1·45	49·70	65·19	−15·49	0	Saugor Island.
25	3	1	0	0	0	0	0	1	N		1·6			13		57	−14	·451	−·075	3·2	+1·3	0	— 0·9	0·03	0·82	— 0·79	54·05	52·99	+ 1·06	0·03	Midnapore.
6	4	4	1	1	1	1	3	9	N 27° W	N	1·9	1·8	+0·1	40	− 5	81	− 1	·602	−·010	2·9	+1·1	0	— 0·9	0·04	0·66	— 0·62	52·33	56·90	− 4·57	0·13	Calcutta.
29	0	0	1	0	0	0	0	0	E	N 6° W	0·5	1·2	−0·7	3	−23	78	− 5	·558	−·032	1·8	−0·1	0	− 1·1	0	1·05	− 1·08	57·98	58·60	− 0·62	0	Jessore.
22	7	0	0	0	0	0	0	1	N 5° W	N 5° W	0·7	1·2	−0·5	27	−13	71	− 4	·501	−·051	3·0	+1·2	0	— 0·9	0	0·72	— 0·72	63·01	52·37	+10·64	0	Burdwan.
17	7	1	0	0	0	2	0	3	N 19° W	N 13° W	0·6	1·1	−0·5	27	− 3	77	− 7	·546	−·048	2·9	+1·0	0	— 0·6	0	0·62	— 0·62	71·36	52·14	+19·22	0	Berhampore.
																															IV.—Bihar and Orissa.
5	15	3	0	0	0	1	0	6	N 8° W	N 21° W	1·7	1·5	+0·2	69	+ 2	67	−13	·507	−·056	4·4	+2·7	0	— 1·2	0·06	1·27	— 1·21	46·87	55·71	− 8·84	0·06	Balasore.
0	15	8	0	0	0	0	0	7	N 2° E		4·8			82	+ 2					6·0	+2·6	1	— 1·2	0·16	3·10	− 2·94	33·84	58·87	−25·03	0·16	Hukitala (False Point).
26	0	3	1	0	0	0	0	0	N 56° E	N 45° W	1·1	1·2	−0·1	19	− 7	78	0	·616	+·163	5·2	+2·7	0	— 1·7	0	1·50	— 1·50	35·74	55·80	−20·06	0	Cuttack.
0	17	11	1	0	0	0	0	1	N 18° E		6·3			90		79	+ 1	·604	+·023	5·5	+3·5	3	+ 1·2	1·24	3·47	− 2·23	54·25	51·45	+ 2·80	0·80	Puri.
14	1	0	0	0	0	0	2	13	N 48° W		1·8			50		69	− 4	·553	+·049	5·6	+4·4	0	— 0·4	0·04	1·12	— 1·08	37·37	42·10	− 4·73	0·12	Angul.
0	23	2	0	0	0	0	1	4	N 5° W	N 21° E	3·0	2·0	+1·0	89	+14	66	− 8	·499	−·021	5·6	+3·8	0	— 0·9	0·02	0·90	— 0·88	68·61	61·78	+ 6·86	0·02	Sambalpur.
3	1	0	0	0	0	6	0	0	S 53° W	S 77° W	1·2	0·7	+0·5	17	−16	72	−10	·461	−·038	3·8	+2·1	0	— 0·9	0	0·77	— 0·77	35·43	47·22	−11·79	0	Chaibasa.
9	5	4	0	0	0	1	7	4	N 38° W	N 63° W	2·3	2·7	−0·4	43	+25	59	− 4	·371	−·028	3·7	+2·1	0	— 0·6	0	0·45	— 0·45	41·24	51·27	−10·03	0	Ranchi.
7	0	0	0	0	0	0	10	13	N 65° W		1·2			50		53	−17	·372	−·077	3·8	+2·6	0	— 0·7	0	0·61	— 0·61	39·31	47·81	− 8·50	0	Purulia.
29	0	0	0	0	0	0	0	1	N 45° W		0·6			3		71	− 8	·372	−·063	1·2	+0·1	0	— 0·4	0	0·45	— 0·45	43·74	38·51	+ 5·23	0	Daltonganj.
6	4	7	4	0	0	4	4	1	N 12° E	N 50° E	1·1	1·1	0	23	+12	86	− 3	·520	−·027	4·0	+3·3	0	— 0·2	0	0·24	— 0·24	77·74	58·76	+18·98	0	Purnea.
6	1	1	4	3	0	8	5	2	S 45° W		1·7			27		62		·448		1·3		0		0	1·51	− 1·51	62·05	47·85	+14·20	0	Monghyr.
26	0	0	4	0	0	0	0	0	E	N 48° W	0·7	1·2	−0·5	13	+ 3	75	− 8	·534	−·017	0·9	+0·3	0	— 0·3	0	0·24	— 0·24	50·13	48·72	+ 1·41	0	Darbhanga.
14	4	3	3	2	0	1	2	1	N 31° E		1·1			20		86		·507		0·7		0		0	0·54	— 0·54	59·94	46·48	+13·46	0	Pusa.
18	1	0	2	1	0	1	7	0	S 85° W	S 60° W	1·3	1·3	0	17	−10	61	−10	·434	−·066	0·7	−0·4	0	— 0·1	0	0·32	— 0·32	76·59	45·78	+30·81	0	Patna.
21	0	0	3	0	0	5	1	0	S 18° W		1·2*			10		64	− 3	·395	−·060	1·1	0	0	− 0·4	0·03	0·44	— 0·41	27·53	39·92	−11·39	0·03	Buxar.
17	0	0	0	2	6	4	1	0	S 13° W	S 7° E	1·0	1·7	−0·7	33	0	58	−13	·366	−·101	1·6	+0·1	0	— 0·6	0	0·51	— 0·51	51·63	44·11	+ 7·82	0	Gaya.
26	1	0	0	0	0	0	0	3	N 34° W		1·0			13		60	−14	·422	−·087	1·2	+0·1	0	— 0·6	0	0·45	— 0·45	49·02	52·48	− 3·26	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
9	0	0	14	0	0	0	7	0	E	N 67° W	1·5	0·7	+0·8	33	− 7	72	− 4	·435	−·062	0·2	−0·5	0	— 0·3	0	0·19	− 0·19	24·51	48·28	−13·77	0	Gorakhpur.
21	1	1	0	2	0	3	2	0	S 49° W	S 53° W	0·7	1·4	−0·7	10	−12	63	−12	·400	−·062	0·9	−0·1	0	— 0·6	0	0·34	— 0·34	30·12	38·05	− 7·93	0	Benares.
22	0	0	2	0	0	0	5	1	N 79° W	N 82° W	0·6	1·7	−1·1	13	−12	54	−15	·346	−·091	1·5	+0·4	0	— 0·5	0·06	0·36	— 0·30	25·55	36·76	−11·21	0·03	Allahabad.
26	0	0	3	2	1	1	1	2	S 38° E	N 68° W	1·1	1·4	−0·3	7	−12	65	−12	·359	−·035	0·4	−0·3	0	— 0·3	0·04	0·39	− 0·35	16·31	33·92	−17·61	0·01	Cawnpore.

* Mean of 26 days.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-istern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hr. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·673	+·012	30·011	29·748	30th	29·597	2nd													
	Bahraich	407	29·616	+·003	30·003	29·664	14th & 30th	29·556	2nd	63·0	56·6	81·4	+0·9	55·4	−1·1	69·9	−0·1	29·0	91·7	3rd	48·4	24th
10	Jhansi	824	29·199	−·022	30·014	29·233	30th	29·092	3rd	64·6	55·6	87·0	+1·2	55·3	−4·1?	71·2	−1·5?	31·7	96·9	1st & 3rd	48·1	26th
	Agra	556	29·475	−·012	30·012	29·555	30th	29·340	2nd & 3rd.	67·1	55·2	85·7	+1·0	56·8	+0·2	71·2	+0·6	28·9	96·7	3rd	51·2	26th
	Mainpuri	516	29·500	−·012	30·001	29·574	14th	29·388	3rd	61·4	52·8	85·8	+1·0	53·4	−0·8	69·6	+0·1	32·4	96·2	3rd	46·3	26th
	Bareilly	568	29·448	+·002	30·005	29·548	30th	29·306	3rd	62·2	55·2	85·6	+2·0?	53·1	−0·1	68·4	+0·2?	30·5	90·3	1st	46·0	25th
	Roorkee	899	29·116	+·000	30·033	29·215	30th	29·021	2nd	57·0	51·5	79·8	−0·7	48·9	−0·9	64·3	−0·8	30·9	86·6	3rd	42·4	25th
	VI.—Punjab.																					
11	Delhi	718	29·296	−·005	30·016	29·375	30th	29·186	3rd	60·3	51·0	82·1	−0·8	56·5	−0·2	69·3	−0·5	25·6	93·0	2nd	49·9	27th
	Hissar	725	29·301	+·002	30·033	29·373	30th	29·146	2nd	57·6	50·5	85·3	+0·2	50·0	−0·3	67·7	−0·1	35·3	95·8	2nd	42·5	27th
	Patiala	*818*	29·173	−·023	30·004	29·235	14th	29·046	2nd	58·0	51·1	82·5	+0·4	51·4	−0·5	66·9	−0·1	31·1	90·6	2nd	44·8	26th
	Ambala	892	29·110	−·005	30·023	29·203	30th	28·968	2nd	56·8	50·8	82·9	+0·4	49·3	−1·0	66·1	−0·3	33·6	91·7	2nd	41·1	25th
	Ludhiana	812	29·177	−·021	30·006	29·252	30th	29·055	2nd	55·8	49·5	82·2	+1·3	51·6	0	66·9	+0·7	30·6	90·5	2nd	45·0	26th
	Lahore	702	29·301	−·012	30·021	29·382	30th	29·162	2nd	51·1	48·9	82·4	−1·5	48·9	+0·7	65·6	−0·4	33·5	88·8	2nd	42·9	24th
	Sialkot	830	29·175	−·007	30·029	29·258	30th	29·034	2nd	55·1	51·0	80·2	−1·2	47·2	−3·1	63·7	−2·1	33·0	86·1	1st	41·5	22nd
	Rawalpindi	1,674	28·343	+·001	30·165	28·430	17th	28·238	2nd	57·4	48·8	78·1	+0·2	44·6	+0·3	61·3	+0·3	33·5	85·0	1st	39·3	24th
12	Khushab	612	29·419	−·002	30·039	29·506	30th	29·271	2nd	58·2	48·9	83·0	−0·6	48·6	−2·7	65·8	−1·7	34·4	88·2	1st	42·2	10th & 11th.
	Lyallpur	605	29·396		30·009	29·469	30th	29·230	2nd	55·5	49·8	82·7		48·3		65·5		34·4	88·5	2nd	42·5	11th
	Montgomery	558	29·451	−·021	30·011	29·522	30th	29·284	2nd	60·1	51·8	83·8	−1·0	51·5	−0·5	67·6	−0·7	32·3	90·6	2nd	45·3	24th
	Multan	426	29·600	−·009	30·013	29·689	30th	29·446	2nd	62·0	53·0	84·6	−0·2	51·8	+1·3	69·7	+0·5	29·8	90·1	2nd	50·0	26th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·923	−·008	30·091	29·017	18th	28·795	24th	50·1	45·5	76·9	−0·4	45·4	−0·7	61·2	−0·5	31·5	81·2	20th	40·9	10th
	D. I. Khan	599	29·447	−·011	30·046	29·532	18th	29·326	1st	56·9	51·0	81·9	−0·7	49·4	+1·2	65·7	+0·3	32·5	87·0	1st	44·6	12th
	VIII.—Sind.																					
16	Jacobabad	186	29·814	−·012	29·999	29·921	30th	29·676	2nd	62·9	51·3	88·3	+0·5	52·5	+0·7	70·4	+0·6	35·8	96·5	2nd	46·0	29th
	Hyderabad	96	29·923	−·019	29·974	30·009	8th	29·775	2nd	66·4	55·3	88·9	−0·2?	59·1	+0·2	74·0	0 ?	29·8	97·8	1st	52·0	13th
	Karachi	13	30·018	−·021	29·983	30·107	8th	29·892	2nd	70·0	60·3	85·9	+1·6	66·1	−0·6	76·0	+0·5	19·8	91·6	12th	62·0	30th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·235	−·018	30·004	29·326	7th	29·082	2nd	62·8	53·6	88·1	+2·7?	54·9	−4·4	71·7	−0·9?	33·2	97·8	2nd	49·9	12th & 26th.
	Jodhpur	780	29·228	−·024	29·992	29·295	8th	29·111	2nd	68·3	52·5	90·7	+1·0	59·9	+1·4	75·3	+1·2	30·8	98·5	1st	50·3	25th
18	Jaipur	1,431	28·594	−·010	30·027	28·652	7th	28·477	3rd	66·1	52·8	86·3	−0·2	55·5	−0·2	70·9	−0·2	30·8	95·5	2nd	46·2	25th
	Ajmer	1,611	28·400	−·028	30·038	28·458	8th	28·290	3rd	57·5	48·9	85·0	+0·6	54·1	+1·7	69·6	+1·1	30·9	93·8	2nd	44·9	26th
	Kotah	832	29·183	−·022	29·995	29·234	7th	29·058	2nd	70·2	56·3	88·9	+0·7	59·2	−1·0	74·2	−0·1	29·7	97·6	3rd	52·6	26th

N. B.— Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in November, 1918—*continued.*

WIND DIRECTION. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	WIND VELOCITY. Mean velocity, miles per hour.	Normal.	Departure from normal.	WIND STEADINESS. Actual percentage.	Departure from normal.	HYGROMETRY, 8 HRS. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	CLOUD. Mean cloud amount at 8 hrs.	Departure from normal.	RAINFALL. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															V.—United Provinces of Agra and Oudh—*concld.*
29	0	0	0	0	0	0	1	0	W	N 72° W	1·1	1·0	+0·1	3	−10					0·8	−0·1	0	−0·3	0	0·21	−0·21	27·14	36·12	−8·98	0	Lucknow.
24	1	0	5	0	0	0	0	0	N 79° E	N 2° W	1·2	1·3	−0·1	17	+ 4	66	−11	·286	−·094	1·1	+0·6	0	−0·5	0·03	0·33	−0·30	36·69	42·09	−5·40	0·03	Bahraich.
17	1	1	0	1	0	8	1	1	S 55° W	S 81° W	1·6	1·3	+0·3	27	+ 4	53	+ 1?	·325	−·044	0·9	+0·2	1	+0·7	0·92	0·14	+0·78	15·33	34·13	−18·80	0·90	Jhansi.
20	0	1	2	2	1	1	3	0	S 10° E	N 56° W	1·1	2·0	−0·9	8	−29	42	−15	·178	−·059	0·9	+0·1	0	−0·2	0	0·13	−0·13	11·87	24·78	−12·91	0	Agra.
14	1	1	3	2	1	0	3	5	N 27° W	N 60° W	0·6	0·6	0	10	− 9	53	−14	·291	−·0	0·9	−0·1	0	−0·3	0	0·21	−0·21	11·07	24·81	−13·74	0	Mainpuri.
28	1	0	1	0	0	0	0	0	N 45° E	N 7° E	0·1	0·9	−0·8	3	− 6	67	− 9	·376	−·030	0·9	+0·2	1	+0·7	0·20	0·26	−0·06	19·05	41·04	−21·99	0·20	Bareilly.
27	0	0	0	3	0	0	0	0	S 15° E	S 81° E	0·8	0·8	0	10	+ 8	67	−10	·311	−·049	0·4	−0·4	1	+0·5	0·42	0·28	+0·14	24·21	37·17	−12·96	0·42	Roorkee.
																															VI.—Punjab.
7	2	2	2	3	0	1	8	5	N 58° W	N 89° W	2·1	1·5	+0·6	27	−11	48	− 6	·255	−·048	0·6	−0·4	0	−0·3	0	0·13	−0·13	11·32	24·12	−12·80	0	Delhi.
3	2	3	6	5	2	8	1	0	S 36° E	S 18° W	3·5	2·0	+1·5	30	+19	58	− 2	·275	−·032	0·9	−0·3	0	0	0	0·03	−0·03	6·77	11·83	− 5·06	0	Hissar.
1	5	6	3	7	0	1	2	5	N 41° E		3·9			30		55	−10	·263	−·083	1·3	+0·4	0	−0·2	0	0·19	−0·19	13·98	20·70	− 6·72	0	Patiala.
15	2	1	8	1	0	0	0	3	N 60° E	N 31° W	2·2	1·0	+1·2	27	+19	64	−10	·299	−·018	1·1	+0·2	1	+0·7	1·06	0·29	+0·77	10·52	25·07	−14·57	1·05	Ambala.
27	1	1	0	1	0	0	0	0	N 52° E	S 27° W	0·7	0·7	0	3	− 4	56	− 8	·259	−·056	0·5	−1·0	0	−0·2	0	0·13	−0·13	10·67	22·81	−12·14	0	Ludhiana.
24	1	2	0	2	0	0	0	1	N 51° E	N 5° W	0·6	0·9	−0·3	10	+ 9	67	− 4	·283	−·048	1·0	−0·2	0	−0·1	0·10	0·08	+0·02	7·07	15·73	− 8·66	0·05	Lahore.
9	3	7	8	1	0	0	1	1	N 56° E	N 42° E	0·9	0·6	+0·3	46	+31	69	+32	·310	−·005	1·1	0	1	+0·8	0·14	0·12	+0·02	12·18	23·68	−11·50	0·14	Sialkot.
19	3	1	1	0	1	1	2	2	N 36° W	N 50° W	1·4	0·9	+0·5	13	+ 2	50	−14	·240	−·016	1·8	+0·1	1	+0·6	0·11	0·29	−0·18	14·57	23·89	− 9·32	0·11	Rawalpindi.
15	1	5	5	1	1	0	1	1	N 65° E	N 38° E	1·9	2·0	−0·1	23	+ 1	46	− 4	·228	−·028	1·1	−0·1	0	−0·1	0	0·10	−0·10	4·85	10·40	− 5·55	0	Khushab.
11	1	2	3	5	1	1	1	1	S 30° E		1·4			20		65		·288		1·7		0	−0·2	0	0·09	−0·09	6·76	10·36	− 3·54	0	Lyallpur.
9	2	1	5	7	3	0	1	2	S 65° E	S 72° E	2·9	2·1	+0·8	30	+ 8	53	+ 2	·279	−·004	1·0	−0·3	0	−0·1	0·11	0·07	+0·04	4·38	8·20	− 3·82	0·06	Montgomery.
19	7	4	0	0	0	0	0	0	N 15° E	N 72° E	0·6	0·9	−0·3	33	+10	51	− 9	·285	−·043	0·8	−0·2	0	−0·1	0	0·08	−0·08	1·41	5·22	− 3·81	0	Multan.
																															VII.—North-West Frontier Province.
28	0	0	0	0	1	1	0	0	S 24° W	S 31° W	0	1·5	−1·5	7	−13	68	+ 2	·249	−·027	0·4	−1·9	0	−0·5	0·05	0·31	−0·26	2·52	5·80	−3·28	0·05	Peshawar.
29	0	0	0	0	0	0	0	1	N 45° W	N 9° E	1·7	0·6	+1·1	3	− 1	65	− 1	293	−·001	0	−1·5	0	−0·3	0	0·18	−0·18	1·68	6·04	−4·36	0	D. I. Khan.
																															VIII.—Sind.
25	1	0	0	0	0	0	0	4	N 37° W	N 18° E	1·1	1·2	−0·1	17	+ 5	49	−17	·228	−·103	0·2	−1·1	0	−0·1	0	0·08	−0·08	0	2·43	−2·43	0	Jacobabad.
7	21	0	0	0	0	2	0	0	N 4° W	N 10° W	2·6	4·6	−2·0	66	+25	45	− 7	293	−·079	0	−1·3	0	−0·1	0	0·07	−0·07	1·26	6·24	−4·98	0	Hyderabad.
4	6	16	2	0	0	0	1	1	N 32° E	N 49° E	5·3	5·5	−0·2	69	+ 2	54	−12	·398	−·120	0·6	−0·6	0	−0·1	0	0·05	−0·05	0·10	6·02	−5·92	0	Karachi.
																															IX.—Rajputana.
7	1	1	7	8	4	2	0	0	S 50° E	N 76° W	2·2	2·4	−0·2	46	+27	50	+ 1	·293	−·014	0·9	−0·4	0	−0·1	0	0·05	−0·05	1·70	9·78	−8·08	0	Bikaner.
3	0	26	0	0	0	1	0	0	N 45° E		2·4			76		27	−11	·189	−·066	1·4	+0·3	0	−0·2	0	0·12	−0·12	1·49	11·93	−10·44	0	Jodhpur.
11	1	4	5	5	0	1	2	1	N 88° E	N 1° W	2·2	2·0	+0·2	26	+ 1	36	−15	·233	−·088	1·1	−0·2	0	−0·2	0	0·15	−0·15	8·48	22·07	−13·59	0	Jaipur.
27	0	0	2	0	0	0	0	1	N 60° E	N 2° W	0·9	1·2	−0·3	3	−27	50	−13	·242	−·088	0·6	−0·5	0	−0·3	0	0·18	−0·18	5·63	18·87	−13·24	0	Ajmer.
24	1	4	0	1	0	0	0	0	N 48° E		0·3			13		38	− 9	·271	−·052	1·7	+1·2	2	+1·9	0·28	0·08	+0·20	15·20	25·13	−9·93	0·15	Kotah.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of barometer above sea level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay.																					
19	Deesa	466	29·528	−·036	29·962	29·590	23rd	29·457	3rd	69·8	58·8	94·1	+1·8	39·6	+1·7	76·9	+1·7	34·5	98·8	1st	50·6	25th
	Bhuj	334	29·606	−·041	29·948	29·718	8th	29·566	3rd	73·4	60·3	91·5	+1·8	59·1	−3·9?	75·3	−1·1?	32·4	96·8	17th	51·5	30th
	Jamnagar	61	29·923	−·060	29·931	29·975	23rd	29·858	3rd	73·4	62·6	90·7	+0·7	62·3	−0·5	76·5	+0·1	26·4	93·5	5th & 8th.	5·8	25th
	Dwarka	37	29·881	−·029	29·963?	30·080	30th	29·923	3rd	76·5	66·9	88·8	+2·3?	70·4	+2·3	79·6	+2·3?	18·4	94·2	8th	63·1	26th
	Rajkot	429	29·534	−·059	29·920	29·563	23rd & 30th.	29·467	3rd	73·7	57·0	91·9	+4·1	62·8	+3·2	78·8	+3·7	32·1	96·2	16th	5x·6	24th
	Veraval	*18*	29·939	−·039	29·900	30·002	30th	29·867	5th	77·0	64·0	89·3	+0·5	69·5	+2·0	79·4	+1·3	19·8	97·6	6th	59·1	30th
	Bhavnagar Para	55	29·917	−·059	29·919	29·975	23rd	29·862	2nd & 5th.	73·2	60·8	94·3	+3·1	61·6	+1·6	79·4	+2·3	29·7	97·3	15th	53·8	25th
	Surat	39	29·931	−·053	29·913	29·998	8th	29·873	5th	76·1	65·0	95·4	+4·0	67·9	+4·4	81·6	+4·2	27·5	99·5	3rd	6·1	26th
	Ahmadabad	163	29·834	−·038	29·918	29·905	23rd	29·766	29th	76·9	60·3	96·8	+3·9	67·8	+2·3	82·3	+3·1	29·0	101·3	2nd	60·7	25th
25	Bombay	37	29·914	−·055	29·851	29·984	30th	29·839	5th	78·3	72·0	86·9	+2·7	75·5	+2·0	82·7	+2·3	11·4	93·6	6th	72·3	23rd
	Ratnagiri	207	29·749	−·045	29·875	29·798	9th	29·676	3rd	82·1	76·7	92·1	+1·5	74·0	+4·9	83·1	+2·7	18·1	99·5	6th	69·9	23rd
	Marmagao	*60*	29·875	−·053	29·870	29·940	9th & 30th.	29·795	5th	77·6	74·2	85·7	−1·0						90·3	3rd		
	Karwar	44	29·888	−·047	29·867	29·963	30th	29·801	5th	75·2	72·8	89·0	+1·4	72·7	+3·2	80·9	+2·3	16·3	96·1	2nd	64·2	19th
26	Malegaon	1,430	28·552	−·040	29·948	28·599	8th	28·502	5th	72·6	58·0	92·5	+5·0	60·2	+3·3	76·4	+4·1	32·3	97·7	2nd	47·0	24th
	Ahmadnagar	2,154	27·833	−·013	29·943	27·880	8th & 9th.	27·790	5th	72·3	60·0	88·7	+3·2	62·1	+5·3	75·4	+4·3	26·6	93·0	2nd	52·5	24th
	Poona	1,846	28·123	−·042	29·933	28·164	8th	28·063	5th	70·8	61·3	90·5	+3·8	60·5	+3·7	77·0	+4·3	27·0	94·5	15th	53·3	24th
	Sholapur	1,590	28·372	−·047	29·908	28·414	8th & 30th.	28·318	20th	74·6	65·1	90·1	+2·5	66·2	+4·1	78·1	+3·3	23·9	95·5	1st	53·2	18th
	Bijapur	*1,948*	28·030	−·027	29·911	28·080	30th	27·976	20th	74·4	64·5	87·7	+1·4	66·4	+5·3	77·1	+3·3	21·3	92·8	5th	57·5	18th
	Belgaum	2,562	27·425	−·026	29·903	27·475	10th & 30th.	27·371	5th	70·8	64·6	83·7	+1·3	64·7	+3·6	74·2	+2·5	19·0	91·3	2nd	60·1	23rd
	XI.—Central India.																					
20	Neemuch	1,626	28·385	−·029	29·990	28·440	9th	28·296	2nd	69·8	56·6	87·1	+2·2	57·6	+2·8	72·4	+2·5	29·5	93·3	3rd	46·0	25th
	Indore	1,823	28·174	−·031	29·950	28·228	7th	28·123	3rd	73·6	63·9	89·2	+5·5	58·1	+2·8	73·6	+4·7	31·1	94·7	1st	45·8	25th
21	Nowgong	754	29·261	−·018	30·009	29·310	7th	29·168	2nd	69·3	52·0	85·3	+3·0	53·7	+0·7	69·5	+1·9	31·6	94·7	4th	45·6	25th
	Satna	1,041	28·982	+·004	30·020	29·033	14th	28·905	2nd	64·0	55·8	83·1	+1·7	54·3	+0·2	68·7	+0·9	28·8	90·8	2nd, 3rd & 4th.	45·8	27th & 28th.
	XII.—Central Provinces.																					
22	Buldana	2,134								74·1	60·2	86·9	+4·6	61·9	+3·0	75·9	+3·8	22·0	92·0	2nd	57·5	26th
	Akola	925	29·076	−·032	29·971	29·123	8th	29·028	4th	71·6	58·8	92·1	+4·5	60·8	+3·7	76·5	+4·1	31·3	97·4	1st	49·4	25th
	Amraoti	1,215	28·761	−·029	29·960	28·825	8th	28·739	20th	75·1	59·6	89·8	+3·3	65·2	+3·5	77·5	+3·4	24·6	95·8	9th	58·8	26th
23	Khandwa	1,044	28·950	−·031	29·975	28·993	30th	28·897	3rd	68·9	57·6	91·6	+4·1	58·9	+2·9	75·3	+3·5	32·7	98·2	1st	45·9	25th
	Hoshangabad	1,006	29·013	−·021	30·006	29·053	8th	28·956	2nd	65·7	56·3	88·2	+3·9	57·0	+0·3?	72·6	+2·1?	31·2	94·1	1st	49·0	24th
	Saugor	1,867	28·190	−·034	29·972?	28·235	10th	28·123	2nd	67·7	53·3	86·2	+4·0	59·8	+2·0	73·0	+3·0	26·4	93·2	6th	53·6	18th & 28th.
	Jubbulpore	1,327	28·674	−·022	30·006	28·716	17th	28·620	2nd	61·2	53·8	83·8	+1·8	52·9	+0·4	68·3	+1·1	30·9	96·1	2nd	43·9	25th & 27th.
	Seoni	2,033	27·984	−·006	29·997	28·033	30th	27·929	20th	67·3	55·6	82·5	+0·8	56·4	+1·3	69·4	+1·1	26·1	87·8	6th	47·7	25th
	Nagpur	1,017	28·994	−·015	29·986	29·053	30th	28·942	20th	69·5	58·1	88·1	+2·7	60·2	+0·6	74·1	+1·7	27·9	92·7	6th	50·8	26th
24	Pendra	2,040	28·003	+·021?	30·027	28·045	10th	27·935	20th	66·7	55·6	81·9	+2·4	55·2	0	68·6	+1·2	26·7	87·7	1st	47·7	25th

N.B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in November, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month	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	54	55
																															X.—Bombay.
2	0	10	15	1	1	0	0	1	N 75° E	N 81° E	4·5	5·3	−0·8	76	+13	19	+ 8?	·356	+·042?	0·7	−0·1	0	−0·2	0	0·11	− 0·11	15·51	23·13	− 7·62	0	Deesa.
18	5	1	1	0	0	0	5	0	N 31° W	N 31° W	2·4	4·0	−1·6	43	−12	43	−15	·304	−·168	1·0	0	0	−0·2	0	0 09	− 0·09	2·77	13·89	−11·12	0	Bhuj.
1	1	13	9	1	1	1	3	0	N 03° E		5·1			57		52	− 2?	·429	−·031	1·2	+0·7	0	0	0	0·01	− 0·01	3·36	18·08	−14·72	0	Jamnagar.
0	13	10	1	0	0	0	1	5	N 8° E		8·1			76		59	−12	·533	−·118	0·8	−0·4	0	0	0	0·01	− 0·01	1·02	13·68	−12·66	0	Dwarka.
1	7	9	4	1	1	1	3	3	N 22° E	N 48° E	4·1	3·7	·04	46	− 1	20	−20	·251	−·154	2·3	+1·4	0	−0·3	0	0·21	− 0·21	9·67	25·76	−16 09	0	Rajkot
7	9	8	1	3	0	0	0	2	N 28° E	N 22° E	5·1	4·2	+0·9	53	−17	47	− 7	·4 3	−·039	1·6	+0·2	0	−0·1	0	0·23	− 0·23	6·10	18 01	−11·94	0	Veraval.
5	3	1	1	0	3	1	3	12	N 51° W	N 60° W	2·9	4·7	−1·8	48	− 5	45	− 9	·382	−·033	2·1	+0 8	0	−0·2	0	0·16	− 0 16	6·54	21·96	−15·42	0	Bhavnagar Para.
7	1	5	8	9	2	0	0	0	S 73° E	N 55 E	2·1	3·4	−1·3	53	0	52	− 8	·477	−·011	2·0	+1·2	0	−0·3	0	0·22	− 0·22	16·31	40 75	−24·44	0	Surat.
1	0	16	9	1	1	0	0	2	N 61° E	N 55° E	3·0	3·1	−0·1	69	+ 9	33	−13	·309	−·068	1·1	− 0·2	0	−0·3	0	0·13	− 0·13	8·43	28·87	−20 44	0	Ahmadabad.
0	0	12	15	3	0	0	0	0	N 76° E	N 73° E	5·3	7·0	−1·7	86	+ 8	72	− 1	·702	+·028	3·5	+1·8	0	−0·7	0·09	0·44	− 0 35	31·8	70·88	−36 80	0·09	Bombay.
3	3	1	12	9	2	0	0	0	S 76° E	S 78° E	5·6	5·5	+0·1	62	− 1	56	− 2	·6 3	+·039	3·0	+·3	6	+5·1	3·41	0·73	+ 2·68	67·77	99·98	−32 21	1·88	Ratnagiri.
8	6	12	3	1	0	0	0	0	N 42° E	S 81° E	3·0	5·3	−1·7	59	−19	84	+ 1	·801	+·080	6·5	+1·1	6	+4·3	3·01	0·99	+ 2·02	92·24	92·85	− 0·61	1·74	Marmegao.
26	4	0	0	0	0	0	0	0	N	N 65° E	1·1	2·0	−0·9	13	−57	89	+ 8	·781	+·120?	4·7	+2·7	9	+6·5	4·58	1·73	+ 2·85	99·45	119 81	−20·36	1·53	Karwar.
10	0	0	1	1	1	10	3	1	S 34° W	N 74° W	3·3	3·5	−0·2	40	−12	37	−14	399	−·059	3·1	+1·8	0	−0·9	0	0 60	− 0·60	8·45	21 97	−13·52	0	Malegaon.
12	0	2	1	7	5	0	1	2	S 35° E	N 76° E	5·1	4·8	+0·3	30	+15	47	− 9	·375	−·038	2·2	+0 5	0	−0·9	0·05	0·62	− 0 57	11·91	21 08	− 9·14	0·05	Ahmadnagar.
16	0	1	8	4	0	0	0	1	S 83° E	S 76° E	4·8	4·6	+0·2	37	+16	56	− 5	·435	+·015	3·1	+1·3	3	+1·4	1·03	0 88	+ 0·15	10·18	26·32	−16·14	0·41	Poona.
3	0	5	5	15	1	0	0	1	S 68° E	S 87° E	7·6	6·1	+1·5	62	− 2	62	+ 1	·417	+·034	5·3	+2·7	2	+0·7	0·28	0 87	+ 0·01	14·2	27·14	−12·92	0·41	Sholapur.
4	0	10	2	11	3	0	0	0	S 73° E	S 76° E	2·3	2·6	−0·3	56	+ 2	58	− 7?	·480	−·020?	3·3	+0·8	1	−0·6	0·28	0·35	− 0·57	9·48	19·02	− 9·54	0·14	Bijapur.
13	0	7	8	2	0	0	0	0	N 76° E	S 87° E	3·6	7·9	−4·3	46	−12	71	+ 9	·539	+·080	7·6	+4·9	5	+3·0	4·28	1·40	+ 2·88	27·53	48·38	−20·85	2·97	Belgaum.
																															XI.—Central India.
15	1	2	12	0	0	0	0	0	N 80° E	N 51° E	4·0	3·9	+0·1	43	− 5	41	− 7	·301	−·017	1·5	+0·6	0	−0·2	0·05	0·17	− 0·12	19·17	27·23	− 8·06	0·05	Neemuch.
17	0	0	3	8	2	0	0	0	S 48° E	N 45° E	1·1	1·4	−0·3	40	+22	58	+ 3?	·476	+·097?	1·0	−0·1	1	+0·5	0·23	0·42	− 0·19	16 36	31·60	−15·24	0·23	Indore.
17	1	3	1	0	2	2	1	3	N 38° W	N 53° W	0·9	0·7	+0·2	8	−10	52	−18	·279	−·111	2·2	+1·1	1	+0·1	0·67	0·37	+ 0·30	13·10	40·75	−27 65	0·67	Nowgong.
29	1	0	0	0	0	0	0	0	N	N 13° W	0·8	2 3	−1·5	3	−41	57	− 7	347	−·030	0·9	−0·4	1	+0·3	0·43	0·35	+ 0·08	28·83	41·60	−12·77	0·43	Satna.
																															XII.—Central Provinces.
1	0	3	12	12	1	0	1	0	S 72° E		4·3	3·7	+0·6	77		42		·355		5·4		2	+1·1	3·08	0·59	+ 3·03	13·59	33·09	−9·50	2·90	Buldana.
8	1	5	11	4	1	0	0	0	N 88° E	N 89° E	3·4	2·6	+0·8	56	+16	42	−14	333	−·055	5·6	+4·2	1	+0·3	1·58	0·44	+ 1·14	14·01	30·17	−15·56	1·58	Akola.
11	0	9	9	1	1	0	0	0	N 73 E	N 67° E	3·3	2·8	+0 5	53	+ 2	36	−13	·319	− 064	3·5	+2·0	1	+0·1	1·30	0 54	+ 0·76	22·01	31·64	− 9·63	1·30	Amraoti.
5	2	5	10	7	1	0	0	0	S 69° E	N 74° E	2·8	2·0	+0·8	59	+31	43	− 9	3·1	−·02?	2·8	+1·5	0	−0·8	0	0·50	− 0·50	13·40	28 63	−15·23	0	Khandwa.
19	0	3	0	8	0	0	0	0	S 65° E	N 66° E	1·5	1·5	0	27	−33	52	−13	·334	−·0 5	2·4	+1·2	1	+0·3	1·42	0·57	+ 0·85	27·48	46 79	−19·31	1·42	Hoshangabad.
7	0	1	6	9	4	2	1	9	S 44° E	S 73° E	3·7	2·0	+1·7	49	+16	34	−15	·230	−·100	1·3	+0·3	1	+0·4	0·54	0·49	+ 0·05	32·06	42·76	−10·70	0·54	Saugor.
8	2	0	0	4	0	3	1	7	N 69 W	S 37° E	1·0	1·2	−0·2	49	+ 8	59	−14	·328	−·067	1·1	0	1	+0·2	0·85	0·53	+ 0·32	38·48	52·37	−13·89	0·85	Jubbulpore.
22	3	4	0	0	0	1	0	0	N 23° E	N 36° E	1·2	1·7	−0·5	20	−23	45	−15	·308	−·076	2·9	+1·6	1	+0·2	0·41	0·57	− 0 16	13·85	49·35	− 5·50	0·41	Seoni.
1	7	13	9	0	0	0	0	0	N 48 E	N 21° E	3·3	2·7	+0·6	76	+46	46	−13	·342	−·062	1·9	+0·2	1	0	1·16	0 70	+ 0·46	31·15	46·57	−15·42	1·16	Nagpur.
15	4	0	0	1	4	2	0	4	N 78° W		2·9			10		48	− 8	·311	−·033	1·1	−0·5	1	+0·5	0·50	0·41	+ 0·09	36·65	43·86	− 7·21	0·50	Pendra.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XII.—Central Provinces —*concld.*																					
	Raipur	970	29·030	—·023	29·976	29·118	30th	28·956	20th	68·2	59·1	86·3	+3·1	60·2	0	73·3	+1·5	26·1	91·1	1st & 6th	52·1	26th
	Chanda	*634*	29·358	—·046?	29·956	29·416	30th	29·311	2 th	70·3	62·3	86·9	+3·5	6·1	+1·7	74·5	+2·6	28·8	92·9	1st	49·8	26th
	Jagdalpur	1,813	28·166		29·942	28·242	30th	28·069	20th	70·0	64·8	81·8		63·2		74·0		21·6	90·4	8th	59·2	26th & 27th.
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·093	—·013	29·911	28·143	8th	28·059	5th	74·1	60·5	89·2	+2·5	64·9	+6·4?	77·1	+4·5?	24·3	93·7	6th	54·2	25th
	Nizamabad	1,248	28·724		29·932	28·778	8th	28·667	20th	73·6	63·3	90·1	+5·1	63·0	+3·7	76·6	+4·1	27·1	93·9	1st	51·7	17th
	Bidar	*2,165*								74·6	65·3	87·3	+4·5	47·2?	−15·5	67·2?	−5·5?	40·1?	97·5	6th	42·9	30th
28	Gulbarga	1,503	28·473	—·033	29·925	28·534	8th	28·407	20th	74·3	65·2	90·2	+2·8	67·3	+4·8	78·8	+3·8	22·9	95·2	1st	57·[illegible]	18th
	Raichur	*1,311*	28·647	—·033	29·908	28·729	7th	28·575	20th	75·2	68·3	88·0	+1·5	70·1	+2·9	79·0	+2·2	17·9	93·1	1st	61·0	18th
	Hyderabad (Deccan)	1,738	28·265	—·024	29·934	28·327	8th	28·177	20th	73·1	65·7	84·5	−0·2	67·5	+5·3	76·0	+2·5	17·0	89·6	1st	60·7	17th
	Hanamkonda	877	29·108	—·029	29·937	29·180	30th	29·017	20th	76·8	66·6	89·2	+3·5	70·1	+6·1	79·6	+4·8	19·1	93·6	1st	62·7	17th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·553	—·040	29·673	27·618	9th	27·491	20th	72·1	67·7	83·3	+0·4	67·6	+3·5	75·4	+1·9	15·7	90·2	1st	63·1	18th
	Hassan	3,149	26·844	—·035	29·864	26·913	30th	26·786	20th	70·0	67·1	80·6	+0·5	65·2	+5·2	73·0	+2·9	15·6	87·4	1st	61·[illegible]	18th
	Bangalore	3,021	26·970	—·037	29·874	27·042	30th	26·909	20th	70·3	66·7	81·6	+0·2?	65·8	+3·9	73·7	+2·9?	15·8	88·3	1st	61·5	10th
	Mysore	2,518	27·447	—·041	29·865	27·515	9th & 28th.	27·388	5th	72·9	68·9	82·9	+0·3	67·7	+3·7	75·3	+2·0	15·2	89·7	1st	65·6	18th
	XV.—Madras.																					
30	Mangalore	72	29·855	—·051	29·858	29·941	30th	29·787	5th	80·0	75·8	88·0	−0·1	74·9	+2·4	81·5	+1·1	13·1	91·0	3rd	71·8	9th
	Calicut	27	29·888	—·051	29·844	29·967	30th	29·818	17th	78·6	76·4	86·9	−0·2	75·5	+2·0	81·2	+0·9	11·4	89·8	1st	72·7	28th
	Cochin	9	29·918	—·040	29·855	29·984	28th	29·838	17th	80·7	76·1	88·8	+1·1	76·1	+1·7	83·4	+1·4	12·7	92·4	18th	73·4	28th
	Trivandrum	198	29·733	—·036	29·862	29·811	28th	29·659	17th	78·0	75·5	84·5	+1·9	75·0	+0·9	79·8	+1·4	9·5	86·8	23rd	73·0	5th
31	Pamban	37	29·878	—·051	29·843	29·969	30th	29·794	17th	79·8	76·7	85·3	+0·4	77·3	+1·6	81·3	+1·0	8·0	87·5	14th	74·0	18th
	Madura	447	29·480	—·049	29·861	29·578	30th	29·401	17th	79·0	75·7	87·5	+0·1	74·6	+2·2	81·0	+1·1	12·9	93·4	12th	72·7	18th
	Pudukkottai	318	29·622	—·043	29·874	29·720	30th	29·522	11th	77·2	73·8	87·0	+0·5	74·3	+2·4	80·7	+1·5	12·7	94·4	12th	70·1	18th
	Negapatam	31	29·694	—·045	29·854	29·988	30th	29·767	17th	78·6	75·4			75·4	+1·1						69·9	18th
	Trichinopoly	255	29·690	—·035	29·881	29·779	30th	29·612	28th	77·8	75·3	87·4	+0·1	73·7	+1·8	80·5	+0·9	13·7	95·8	1st	69·8	18th
	Coimbatore	1,341	28·603	—·032	29·885	28·691	30th	28·530	20th	75·2	71·9	85·5	−0·5	71·0	+2·2	78·3	+0·9	14·5	93·0	1st	67·4	10th
	Salem	913	29·026	—·033	29·879	29·110	28th	28·954	20th	76·8	73·1	88·5	+1·0	72·6	+3·9	80·6	+2·5	15·9	95·0	11th	68·2	10th
	Cuddalore	37	29·894	—·050	29·861	29·987	30th	29·787	18th	77·4	75·2	83·2	—1·8	74·7	+2·7	78·9	+0·5	8·5	88·9	12th	71·5	18th
	Vellore	707	29·225	—·058	29·877	29·318	30th	29·106	11th	75·7	73·9	84·2	−0·3	72·2	+3·5	78·2	+1·6	12·0	90·6	22nd	67·6	10th
	Madras	22	29·920	—·047	29·872	30·059	30th	29·808	18th	78·2	76·3	83·8	—1·4	75·0	+2·8	79·4	+0·7	8·8	87·6	3rd & 24th.	70·7	12th
32	Cuddapah	428	29·523	—·048	29·892	29·612	30th	29·434	20th	77·9	74·5	86·5	−2·2	73·7	+4·5	80·1	+1·1	12·8	91·9	23rd	69·5	9th

N. B.—Elevations in italics indicate barometrical determinations.

B—*continued.*

stations in India, etc., in November, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XII.—Central Provinces—*concld.*
5	6	14	5	0	0	0	0	0	N 43° E	N 40° E	1·7	2·3	−0·6	69	+46	55	−10	·384	−·060	4·6	+2·9	1	0	0·24	0·39	−0·15	63·66	47·44	+16·22	0·24	Raipur.
3	5	8	6	0	0	1	1	6	N 22° E	N 39° E	2·1	1·2	+0·9	49	+20	61	−10	·473	−·013	4·7	+2·7	1	−0·5	0·19	0·72	−0·53	37·99	49·81	−11·82	0·10	Chanda.
18	2	2	7	1	0	0	0	0	N 74° E		1·5			30		75		·550		4·7		1		0·19	0·84	−0·35	56·58	57·58	− 1·00	0·11	Jagdalpur.
																															XIII.—Hyderabad.
3	0	2	13	11	0	0	0	0	S 74° E		5·5			79		42	− 6	·261	−·032	6·4	+4·9	2	+1·4	0·30	0·63	−0·33	13·85	26·53	−12·68	0·15	Aurangabad.
15	0	6	4	1	3	1	0	0	S 89° E		2·6			27		54	−15	·453	−·071	4·7	+2·7	1	+0·1	0·37	0·61	−0·24	24·21	38·64	−14·43	0·37	Nizamabad.
0	0	12	4	13	1	0	0	0	S 85° E		3·1			75		60	− 3	·511	+·013	2·7	+0·8	1	−0·5	0·88	0·85	+0·03	33·61	34·38	− 0·77	0·78	Bidar.
2	1	8	15	3	1	0	0	0	N 82° E	N 81° E	5·8	5·8	0	76	+27	61	− 2	·517	+·020	3·5	+1·3	3	+1·9	3·51	0·72	+2·79	18·84	29·52	−10·68	2·50	Gulbarga.
3	1	12	7	7	0	0	0	0	N 78° E	N 85° E	6·3	5·3	+1·0	66	+ 2	60	+ 5	·591	+·050	6·0	+3·4	4	+2·4	0·77	0·75	+0·02	21·89	26·08	− 4·19	0·25	Raichur.
8	0	6	6	9	0	1	0	0	S 80° E	S 72° E	4·1	2·6	+1·5	53	+30	67	− 2	·544	+·034	6·0	+3·4	2	0	1·03	0·82	+0·21	18·19	29·35	−11·16	0·65	Hyderabad (Deccan).
5	6	0	0	5	5	1	1	7	N 08° W		2·7			10		56	− 7	·523	+·012	5·0	+2·2	0	−1·1	0·02	0·67	−0·65	16·16	32·36	−14·20	0·02	Hanamkonda.
																															XIV.—Mysore.
6	0	3	13	8	0	0	0	0	S 81° E	S 84° E	3·8	4·5	−0·7	69	+ 4	79	+10	·613	+·066	7·2	+3·1	10	+6·9	10·82	1·77	+9·05	17·51	22·69	− 5·18	3·22	Chitaldrug.
11	1	0	12	5	1	0	0	0	S 79° E	N 77° E	2·7	2·2	+0·5	50	−25	86	+10	·633	+·082	5·0	−0·2?	12	+8·0	12·81	2·63	+10·18	24·23	32·06	− 7·78	2·60	Hassan.
3	2	10	12	2	0	0	1	0	N 69° E	N 71° E	5·4	3·7	+1·7	69	− 5	82	+ 4	·610	+·065	8·7	+4·0	6	+1·5	5·84	2·68	+3·16	27·41	32·32	− 4·91	3·74	Bangalore.
3	1	6	12	3	1	1	2	1	N 82° E	N 67° E	4·4	6·3	−1·9	49	−18	81	+ 4	·658	+·073	6·9	+1·0	8	+4·8	6·84	2·21	+4·63	23·47	27·88	− 4·41	2·32	Mysore.
																															XV.—Madras.
2	1	8	16	3	0	0	0	0	N 80° E	S 82° E	4·2	1·9	+2·3	79	+ 2	82	+ 9	·829	+·096	5·7	+2·2	7	+2·9	5·75	2·85	+2·90	99·68	124·43	−24·75	1·43	Mangalore.
16	1	4	5	3	1	0	0	0	N 86° E	N 87° E	2·8	4·8	−2·0	33	−41	90	+ 8	·878	+·085	7·0	+2·8	13	+7·1	12·17	4·82	+7·35	95·94	111·54	−15·60	2·11	Calicut.
4	0	8	15	2	1	0	0	0	N 82° E	N 39° E	3·5	3·0	+0·5	72	+ 5	80	0	·837	+·040	4·7	+0·5	12	+3·6	6·67	6·17	+0·50	73·79	104·45	−30·66	1·39	Cochin.
18	1	6	1	0	2	0	0	2	N 40° E	N 5° W	2·9	2·6	+0·3	23	− 3	89	+ 4	·847	+·050	7·4	+1·8	5	−4·1	3·67	6·37	−2·70	43·68	54·30	−10·62	1·00	Trivandrum.
1	3	4	3	2	4	4	1	8	N 35° W	N 21° E	7·5	7·4	+0·1	13	−39	86	+ 1	·875	+·014	5·0	+0·3	18	+5·6	17·94	11·18	+6·76	23·83	24·38	− 0·55	2·97	Pamban.
2	6	7	4	1	0	0	4	6	N 3° E	N 3° E	2·5	4·8	−2·3	46	−24	86	+ 9	·845	+·101	8·2	+3·1	13	+5·7	6·25	4·80	+1·45	17·41	28·36	−10·95	1·78	Madura.
10	5	8	3	0	0	0	1	3	N 21° E		3·0			47		85	+ 5	·787	+·047	7·1	+1·0	18	+9·8	13·45	5·59	+7·86	23·56	29·26	− 5·70	2·19	Pudukkottai.
4	3	3	1	3	1	3	4	8	N 49° W	N 30° W	5·7	4·2	+1·5	27	−21	86	+ 4	·838	+·026	6·6	+0·1	15	+3·0	33·05	15·84	+17·21	42·71	39·04	+ 3·67	14·39	Negapatam.
8	5	8	1	0	0	1	5	2	N 3° W	N 13° E	1·8	2·8	−1·0	37	0	89	+10	·839	+·088	5·1	−0·3?	17	+9·2	9·78	5·09	+4·69	21·86	26·61	− 4·75	1·45	Trichinopoly.
19	1	7	2	0	0	0	1	0	N 45° E	N 81° E	2·3	1·8	+0·5	27	−21	85	0	·738	+·021	6·2	+0·9	11	+4·5	9·47	3·43	+6·04	19·12	18·09	+ 1·03	2·33	Coimbatore.
11	2	9	5	0	0	1	2	0	N 48° E	N 50° E	2·1	2·3	−0·2	40	+13	83	+ 5	·764	+·054	7·1	+2·2	8	+2·2	4·23	3·58	+0·65	19·07	35·40	−16·33	1·19	Salem.
11	5	1	1	0	0	1	3	8	N 36° W	N 25° W	3·7	1·6	+2·1	46	−24	90	+ 3	·841	+·028	8·0	+3·0	21	+10·7	37·45	13·29	+24·16	49·01	42·02	+ 6·99	6·48	Cuddalore.
25	1	0	1	0	0	0	0	3	N 20° W		1·7			11		92	+ 8	·813	+·103	7·3	+3·1	11	+3·4	11·40	6·15	+2·25	26·01	36·13	− 8·12	2·91	Vellore.
10	4	4	1	0	0	2	2	7	N 24° W	N 1° E	3·3	4·7	−1·4	37	−26	91	+ 8	·874	+·062	7·8	+2·4	22	+11·0	42·85	13·30	+29·55	57·85	41·68	+16·17	6·23	Madras.
5	2	1	4	9	2	0	1	6	S 76° E	N 89° E				20	−21	85	+10	·808	+·122	7·6	+3·5	9	+3·8	5·32	3·57	+1·85	18·00	28·89	−10·89	1·21	Cuddapah.

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean of 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras—*concld.*																					
	Bellary	1,475	28·477	—·042	29·899	28·541	30th	28·421	19th & 20th.	75·1	68·9	87·1	—0·3	61·8	+4·1	78·4	+1·9	17·3	94·8	1st	64·6	18th
	Kurnool	923	29·035	—·036	29·907	29·104	30th	28·947	20th	75·8	70·0	88·6	+0·4	71·5	+7·3	80·0	+3·9	17·1	93·4	1st	64·1	18th
33	Nellore	66	29·882	—·049	29·883	29·934	30th	29·754	19th	76·6	75·8	82·4	—3·7	74·2	+2·7	78·3	—0·5	8·2	89·6	20th	72·0	5th
	Masulipatam	15	29·955	—·045	29·905	30·056	30th	29·803	19th	77·4	73·9	84·3	—1·0	73·5	+2·4	78·9	+0·7	10·8	89·3	1st	67·2	11th
	Cocanada	26	29·951	—·033	29·913	30·045	30th	29·803	20th	77·6	73·4	82·6	—0·3	73·9	+3·2	78 3	+1·5	8·7	85·0	1st	70·3	8th
	Waltair (Vizagapatam)	*226*	29·935	—·039	29·911	30·039	30th	29·787	20th	75·5	72·8	83·1	+1·9	75·7	+2·3	79·4	+2·1	7·4	85·6	14th	71·5	19th
	Calingapatam	19	29·970		29·927	30·075	30th	29·827	20th	76·1	71·9	83·3		71·9		77·6		11·4	88·0	9th	67·1	7th
	Gopalpur	33	29·957	—·011	29·954	30·054	30th	29·831	20th	75·3	70·9	83·9	+0·4	71·4	+5·1	77·6	+2·7	12·5	89·9	8th	67·0	17th
	Bay Islands.																					
1	P. V. Fraser	8	29·982		29·962	30·070	30th	29·838	20th	80·0	72·6											
	Port Blair	58	29·899	—·005	29·878	29·958	27th	29·780	16th	81·2	77·4	86·3	—0·3	77·0	0	81·7	—0·1	9·3	89·3	21st & 22nd.	73·9	7th
	Table Island		29·871	+·011	29·895	29·935	30th	29·796	16th	81·6	77·2	84·8	—0·6	78·0	+0·5	81·4	—0·1	6·8	87·0	5th	73·2	11th
	Kashmir.																					
13	Muzaffarabad		27·656			27·722	5th & 17th.	27·635	2nd	56·2	47·8	74·9		46·0		60·5		28·9	80·2	13th & 25th.	41·7	24th
	Srinagar	5,204	25·029	—·005	25·000	25·118	18th	24·868	2nd	38·2	37·5*	57·9	—3·4	31·7	—0·4	41·8	—1·9	26·2	63·3	1st	24·1	25th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·927	+·029	20·895	21·039	13th	20·689	2nd	12·1		31·5	—12·8	8·2	—7·7	19·9	—10·3	23·3	42·9	1st	—5·0	4th
	Leh	*11,503*	19·781	—·017	19·749	19·903	13th	19·544	3rd	24·9		41·2†	—8·1†	18·0	—2·7	30·3†	—5·5	23·2	49·8	1st	13·5	6th
	Skardu	*7,505*	23·034	+·001	23·004	23·168	13th	22·767	2nd	31·1	31·9‡	49·1	—5·7	28·6	—1·6	38·9	—3·7	20·5	56·0	1st	22·5	25th
	Gilgit	4,890	25·346	+·032	25·319	25·524	13th	25·110	2nd	43·9	38·6	59·5	—3·8	38·4	—4·4	49·0	—4·1	21·1	66·7	1st	34·2	23rd, 24th & 25th.
	Baluchistan.																					
15	Fort Sandeman	4,614	25·522		25·491	25·613	10th	25·418	2nd	47·4	39·8§	72·5		39·6		56·1		32·9	82·9	23th	32·5	30th
	Quetta	5,502	24·769	—·007	24·729	24·880	8th	24·664	16th	32·3	37·5‖	65·7	—0·1	30 1	—3·1	47·9	—1·6	35·6	74·9	15th	21·7	9th
	Chaman	4,311	25·817	—·005	25·779	25·962	8th	25·668	15th	45·0	38·6¶	67·1	—0·3	40·4	—2·3	53·8	—1·3	26·7	78·1	1st	27·6	9th
	Kalat	6,630	23·853		23·815	23·964	8th	23·755	16th	29·7	34·5**	63·9	—3·3	27·0		45·5		36·9	72·8	15th	16·1	30th
	Dalbandin	2,772	27·280		27·243	27·458	9th	27·098	15th	43·1	39·4*	74·2		37·9		56·1		36·3	85·4	1st	27·3	30th
	Pasni		30·032		29·992	30·135	8th	29·935	16th	67·2	59·3 (e)	85·5		52·2		68 8		33·3	92·6	13th	44·3	25th
	Panjgur		26·869		26·827	27·015	8th	26·744	16th	46·1	39·5 (e)	74·3		43·6		58·9		30·7	88·2	1st	32·1	30th
	Robat		27·066		27·024	27·287	8th	26·926	17th	49·2	41·6	76·6		34·6		55·6		42·0	85·0	23rd & 25th.	23·1	29th
	Seistan		28·381			28·690	8th	28·190	16th & 21st.	42·8	38·8§	68·8		39·5		54·1		29·3	80·4	16th	30·0	11th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·542	—·008	24·518	24·611	23rd	24·418	2nd	47·5	39·2	64·6	—1·0	38·7	—2·3	51·7	—1·7	25·9	75·4	25th	32·1	30th
	Cherat	*4,256*	25·832	+·009	25·800	25·910	23rd	25·695	2nd	54·5	41·6	64·9	—2·1	49·8	—0·1	57·3	—1·1	15·1	72·6	25th	44·8	30th
	Drosh (e)		25·213			25·300	18th & 19th.	25·025	2nd	49·3	41·6	64·0	—1·6	45·1	+0·7	54·5	—0·5	18·9	69·5	23rd	39·8	30th
	Murree	6,333	23·895	—·018	23·863	23·971	18th	23·791	2nd	49·4	38·1	58·6	—2·2	46·5	+1·0	52·5	—0·6	12·1	63·6	20th	40·1	30th

N.B.—Elevations in italics indicate barometrical determinations.

(e) Aneroid.

* Mean of 24 days.
† " " 17 "
‡ " " 6 "
§ " " 28 "
‖ " " 8 "
¶ " " 23 "
** " " 4 "
(e) " " 29 "

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*continued.*

stations in India, etc., in November, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras—*concld.*
6	2	2	8	5	2	2	1	2	S 77° E	S 85° E	2·9	2·3	+0·6	30	— 3	73	+ 8	·625	+·094	7·2	+3·3	8	+4·9	5·96	2·04	+3·92	16·51	18·78	−2·27	3·69	Bellary.
19	2	1	7	1	0	0	0	0	N 76° E	N 34° W	2·5			27	+26	74	+ 2	·660	+·081	6·9	+1·1	6	+3·9	2·74	1·11	+1·63	20·84	24·61	−3·77	1·82	Kurnool
17	1	1	1	0	2	2	3	3	N 85° W	N 41° W	2·1	3·4	−1·3	16	−39	96	+13	·874	+·103	8·3	+1·9P	18	+10·5	36·48	9·90	+26·58	45·25	30·98	+14·27	5·80	Nellore.
0	9	13	7	1	0	0	0	0	N 44° E	N 14° E	5·8	3·9	+1·9	77	− 1	84	+ 4	·787	+·052	7·7	+4·0	17	+2·7	14·80	5·15	+2·65	43·22	37·76	+5·46	3·75	Masulipatam.
1	3	25	1	0	0	0	0	0	N 43° E	N 12° E	10·3	7·3	+3·0	92	+ 9	81	+ 7	·766	+·103	7·2	+3·6	9	+4·7	6·33	4·97	+1·36	28·34	35·74	−7·40	1·62	Cocanada
2	3	18	2	0	0	0	1	4	N 30° E	N 15° W	7·0			69	+26	71	− 1	·710	+·043	7·6	+3·7	5	+1·9	2·82	2·55	+0·27	22·90	33·02	−10·12	1·20	Waltair (Vizagapatam).
1	10	12	2	0	0	0	0	5	N 18° E		7·6			77		81		·724		4·4		4	+3·4	5·22	2·54	+2·68	35·55	49·24	−4·69	2·84	Calingapatam.
0	15	1	0	0	0	0	0	14	N 20° W	N 25° W	6·0	6·1	−0·1	89	+ 2	80	+ 2	·693	+·077	5·1	+3·5	4	+1·2	1·50	3·89	−2·39	33·67	42·34	−8·67	0·61	Gopalpur.
																															Bay Islands.
2	8	12	4	1	0	0	0	3	N 31° E					70		67		·700		4·8		1		0·10	1·80	−1·70	33·92	34·86	−0·94	0·10	P. V. Fraser.
3	1	5	8	9	4	0	0	0	S 72° E	N 72° E	6·9	4·9	+2·0	62	+42	83	− 2	·886	+·006	6·0	+0·2	16	+3·8	14·41	9·41	+5·00	117·35	104·19	+13·06	3·14	Port Blair.
4	0	5	11	6	3	1	0	0	S 76° E		7·2			59		81	+ 1	·876	+·027	6·6	0	8	+1·5	7·82	5·59	+2·23	72·83	74·22	−1·39	3·33	Table Island.
																															Kashmir.
25	0	0	0	0	1	3	1	0	S 45° W		0·9			13		52		·232		2·8		3		1·00	0·88	+0·12	18·99	31·95	−12·96	0·72	Muzaffarabad.
15	1	0	1	6	1	0	2	4	S 18° E	S 53° E	2·0	1·9	+0·1	5	−18	82*	− 5	·02*	+·013	3·6	+1·2	2	+0·9	0·94	0·43	+0·46	7·08	11·99	−4·91	0·58	Srinagar.
																															Gulmarg.
29	0	0	1	0	0	0	0	0	E		0·4			3						4·2	+1·5	3	+2·0	1·00	0·46	+0·54	1·64	6·47	−4·83	0·58	Dras.
19	2	7	2	0	0	0	0	1	N 39° E	S 46° W	2·6	1·5	+1·1	33	+19					3·9	+0·5	0	−0·2	0·02	0·03	−0·01	0·55	1·79	−1·24	0·02	Leh.
24	0	0	2	0	1	0	3	0	S 45° W		0·6			3		72‡		·166‡		4·8	+1·3	1	+0·9	0·48	0·07	+0·41	1·17	3·43	−2·26	0·41	Skardu.
30	0	0	0	0	0	0	0	0	Calm		0·1			(a)		62	+16	·177	+·025	4·5	+0·5	1	+0·9	0·29	0·05	+0·24	1·37	2·85	−1·49	0·21	Gilgit.
																															Baluchistan.
22	0	1	0	0	2	3	2	0	S 45° W		0·9			13		44§ (k)		·154§ (k)		1·1		0		0	0·28	−0·28	3·30	5·21	−1·91	0	Fort Sandeman.
28	0	1	1	0	0	0	0	0	N 66° E	S 18° W	1·4	1·5	−0·1	7	+ 2	59		·163		1·2	−0·5	0	−0·8	0·07	0·36	−0·29	0·38	2·18	−1·80	0·04	Quetta.
6	0	1	17	5	1	0	0	0	S 80° E	S 61° E	0·5	4·7	−4·2	69	+ 6	41‖	− 5	·133‖	−·032	1·6	+0·3	0	−0·7	0	0·34	−0·34	0	0·72	−0·72	0	Chaman.
30	0	0	0	0	0	0	0	0	Calm	S 20° W	3·5			(a)		63¶		·151¶		0·8		0	−0·8	0	0·40	−0·40	0·09	1·93	−1·84	0	Kalat.
13	0	7	9	1	0	0	0	0	N 74° E		2·4			53		59*		·176*		0·7		0		0	0·24	−0·24	0	0·55	−0·55	0	Dalbandin.
3	7	4	2	0	0	0	4	10	N 20° W		4·2			59		61 (e)		·107 (e)		0·6		0		0	0·09	−0·09	0·04	1·86	−1·82	0	Pasni.
0	1	16	11	0	0	1	0	1	N 59° E		5·0			79		42 (e)		·156 (e)		1·3		0		0·06			0·41			0·06	Panjgur.
0	0	0	0	0	0	15	15	0	S 67° W		3·1			89		47 (e)		·178 (e)		0·1		0		0	0·17	−0·17	0	0·29	−0·29	0	Robat.
20	0	0	0	0	0	0	0	10	N 45° W		7·8			33		64§		·180§		0·1		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		0·6			(a)		45	+ 1	·147	−·021	1·4	−0·5	2	+0·7	0·43	0·60	−0·17	8·94	15·19	−6·25	0·22	Parachinar.
15	10	1	0	0	0	0	0	4	N 9° W	N 13° W	?	8·5		43	−24	28	−15	·126§	−·065	0	−1·9	2	+1·7	0·81	0·24	+0·57	9·87	12·65	−3·78	0·61	Cherat.
20	0	3	5	0	0	2	0	0	N 83° E		2·9			20		51	+ 2	·173	+·015	3·4	+1·2	1	−0·1	0·20	0·38	−0·18	2·94	6·42	−3·48	0·11	Drosh.
15	4	1	1	6	1	1	0	1	S 83° E	N 75° E	3·5	4·2	−0·7	17	+10	34	− 4	·114	−·027	1·9	−0·2	2	+1·0	0·73	0·84	−0·11	26·53	40·60	−14·07	0·43	Murree.

of hill or plateau tations, the elevations of which exceed 3,200 feet.

* Mean of 24 days.
‡ ,, 6 ,,
§ ,, 28 ,,
‖ ,, 23 ,,
¶ ,, 4 ,,
** ,, 21 ,,
(k) ,, 8 ,,
(e) ,, 29 ,,

(a) Indeterminate

Table

(2) Abstract of observations taken at 8 hrs. at 214

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 2 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
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 —*concld.*																					
	Simla	7,232	23·181	−·003	23·143	23·248	18th	23·128	24th	48·6	38·0	55·7	−0·1	43·9	−1·0	49·8	−0·7	11·8	62·4	2nd	32·0	30th
	Chakrata	7,072	23·439	?	23·399	23·495	17th	23·389	24th	50·6	42·0	60·0	−0·9	43·3	0	52·0	−0·5	16·1	66·7	2nd	36·9	30th
	Mukteswar	7,592	22·924	−·002	22·883	22·967	17th	22·872	24th	48·0	40·1	58·6	−1·8	40·7	−2·4	49·6	−2·1	17·9	62·5	9th & 19th	30·0	30th
	Darjiling	7,432	23·033	−·014	22·988	23·095	14th	22·971	24th	47·2	44·0	56·7	+1·6	42·3	−0·4	49·5	+0·6	14·4	59·7	6th	39·5	24th
	Shillong	4,820	25·239	+·009	25·191	25·290	14th	25·187	23rd	57·1	51·6	65·8	−0·9	46·1	−0·2	55·9	−0·5	19·7	71·7	17th	39·9	9th
	Cherrapunji	4,309	25·786	+·006	25·737	25·847	30th	25·737	20th & 21th	61·4	54·5	67·5	−0·2	52·7	−1·3	60·0	−0·7	14·8	72·7	19th	47·1	9th
	Netarhat		26·262		26·211	26·291	1st	26·243	30th	66·1	52·4	77·0		?		?		?	80·5	3rd	?	?
	Maymyo	3,546	26·515	0	26·459	26·578	30th	26·443	24th	63·0	61·6	71·7	−1·8	55·0	+2·8	63·4	+0·5	16·7	77·4	7th	44·6	30th
	Pachmarhi	3,528	26·542	−·026	26·489	26·607	8th	26·498	20th	64·0	54·3	78·5	+1·7	52·3	+1·8	65·4	+3·3	26·2	81·5	6th	41·1	25th
	Mount Abu	3,945	26·136	−·036	26·086	26·202	8th	26·053	29th	69·0	53·6	75·7	+2·0	60·1	+1·8	67·9	+1·9	15·6	80·6	2nd	52·9	30th
	Mercara	3,721	26·229	−·038	26·162	26·291	30th	26·180	20th	65·7	64·1	76·1	+0·1	61·8	+1·6	69·0	+0·9	14·3	82·0	14th	58·9	19th
	Ootacamund	*7,327*	23·072	−·003	23·003	23·120	9th & 28th	23·022	5th	57·0	54·8	63·8	+0·5	51·3	+3·7	57·6	+2·1	12·5	67·5	9th	46·7	9th
	Kodaikanal	7,688	22·837	−·019	22·772	22·851	30th	22·774	17th	55·3	51·1	61·2	+0·2	51·1	+2·5	56·3	+1·3	9·8	64·9	14th	47·0	9th
	Extra India.																					
	Singapore (*a*)	10	29·856	−·089	29·787	29·908	29th	29·788	19th	82·8	...	87·9	+0·7	74·5	+1·0	81·2	+0·9	13·4	91·5	12th	73·0	4 days
	Penang (*a*)	17	29·820	−·105	29·762	29·890	22nd	29·780	7th	81·7	...	89·5	+2·0	74·0	+0·7	81·7	+1·3	15·5	92·0	28th	72·0	4 days
	Trincomalee	99	29·815	−·038	29·843	29·900	30th	29·682	17th	77·8	75·2	87·7	+2·3	75·3	+0·7	81·5	+1·5	12·4	92·4	21st	72·7	10th
	Colombo	24	29·905	−·036	29·855	29·955	27th	29·839	17th	75·6	74·5	86·5	−0·1	74·2	+0·1	80·3	0	12·3	88·9	4th	71·7	7th
	Hambantota	64	29·866		29·857	29·935	30th	29·783	17th	75·9	74·2	86·2		74·6		80·4		11·6	88·5	17th	71·6	8th
	Minicoy	7	29·931	...	...	29·996	2nd	29·839	5th													
	Amini Divi	*13*	29·902	−·057	29·843	29·971	10th	29·822	5th & 6th	84·1	78·4	89·5	+3·5	77·1	+1·7	83·3	+2·6	12·4	93·2	2nd & 19th	74·3	19th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·452	−·120	24·408	24·648	4th	24·351	22nd	51·8	48·7	61·9	−2·8	50·1	+9·3	56·0	+3·3	11·8	69·1	7th	45·5	27th
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·713	−·057		26·250	30th	25·430	28th	29·9	*34·6	50·1	−3·4	26·1	−2·9	38·1	−3·1	24·0	65·3	1st	19·3	11th
	Kabul (*c*)	...	24·248	−·142		24·400	23rd	24·120	2nd	37·2	†36·6	68·2	+0·2	36·1	+2·0	52·1	+1·1	32·1	77·6	14th	27·0	10th
	Meshed	3,104																				
	Jask	13	30·041	−·017	30·011	30·162	8th	29·918	16th	70·7	64·0	84·9	+1·5	67·1	−1·9	76·0	−0·2	17·8	89·4	14th	62·1	10th
	Muscat	20	30·033	−·021	30·002	30·167	8th	29·933	15th	76·9	67·4	86·1	+3·6	73·0	−2·2	79·5	+0·7	13·1	92·1	2nd	67·7	25th
	Bushire	14	30·031	−·049	30·007	30·132	23rd	29·918	1st	66·5	61·9	79·1	+1·2	63·6	+1·3	71·3	+1·3	15·5	89·6	8th	57·0	29th
	Basrah	25	30·080	−·018	30·075	30·169	23rd	29·954	1st	61·4	57·8	79·0	+3·7	56·1	−0·9	67·5	+1·4	22·9	89·9	7th	49·2	21st
	Ispahan (*c*)	*5,817*	24·377	+·027	...	24·599	8th	24·269	16th	40·6	37·9‡	63·6	+0·5	37·9	+1·3	50·7	+0·8	25·7	69·4	1st & 22nd	30·2	30th
	Tehran (*c*)	*4,009*	25·908	−·012		26·170	8th	25·750	16th	46·6	41·7	59·8	−3·0	42·6	0	51·2	−1·5	17·2	68·7	1st	36·0	21st
	Baghdad	127	29·965	−·032		30·059	15th	29·757	11th	57·4	53·4	76·5	+1·4	55·8	+5·3	66·1	+3·3	20·7	90·7	1st	48·0	30th
	Aden	94	29·892	−·052	29·926	29·962	30th	29·823	11th	76·9	73·4	84·2	−0·8	75·3	+0·5	79·8	−0·1	8·9	89·2	18th	70·3	1st
	Zanzibar	72	29·969	+·001	29·966	30·018	16th	29·897	29th	80·9	76·3	85·2	+1·9	77·5	+0·3	81·3	+0·7	7·7	87·5	28th	73·2	5th

N.B.—Elevations in italics indicate barometrical determinations.

(*a*) 9 hrs. observations.
(*c*) Aneroid.

* Mean of 2 days
† „ „ 20 „
‡ „ „ 25 „

NOTE.—The barometric readings are not reduced to sea-level in the case

B—*concluded.*

stations in India, etc., in November, 1918—*concluded.*

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Hill stations, excluding Kashmir and Baluchistan—*concld.*
																77	− 4	·121	−·018	1·8	+0·3	4	+3·1	1·07	0·54	+0·53	49·73	51·34	−1·61	0·48	Simla.
19	0	6	2	2	0	1	0	0	N 73° E	N 34° E	3·9	3·9	0	23	−14	49	− 2	·177	−·004	1·8	+0·7	2	+1·3	0·52	0·61	−0·09	31·65	57·92	−26·27	0·27	Chakrata.
8	0	1	8	4	0	2	7	6	S 42° E		4·8			13		51	+ 4	·167	+·003	1·6	+0·3	2	+1·8	1·10	0·45	+0·65	21·86	42·97	−21·11	0·55	Mukteswar.
22	1	4	0	1	0	1	0	1	N 34° E	N 87° E	1·5	2·0	−0·5	13	−27	78	+ 1	·254	−·008	4·7	+1·4	0	−0·8	0·01	0·90	−0·89	118·79	117·81	+ 0·98	0·01	Darjiling.
26	0	0	1	1	1	1	0	0	S 23° E		0·8			7		69	− 6	·328	−·011	3·3	+1·4	0	−2·8	0	1·45	−1·45	87·45	76·69	+10·76	0	Shillong.
1	2	7	13	2	0	1	3	1	N 70° E		2·6			53		64	− 6	·349	−·021	4·6	+2·4	0	−1·7	0	2·35	−2·35	490·40	379·16	+111·24	0	Cherrapunji.
0	6	4	0	0	0	5	6	9	N 47° W		3·1			60		37		·239		0		0		0			55·78			0	Netarhat.
22	0	1	1	0	0	3	3	0	S 67° W		0·5			10		92	+ 3	·533	+·019	6·5	+2·4	10	+4·5	3·40	3·07	+0·33	48·28	56·37	− 8·09	0·67	Maymyo.
14	0	6	1	7	2	0	0	0	S 75° E	N 82° E	1·9	2·0	−0·1	33	+15	53	− 2	·317	−·019	1·0	−0·5	1	+0·1	3·05	0·63	+2·37	48·56	73·22	−24·66	3·05	Pachmarhi.
12	3	9	1	1	1	1	1	1	N 37° E	N 27° E	2·8	3·2	−0·4	33	+ 6	33	− 7	·237	−·024	1·4	+0·4	0	−0·3	0	0·21	−0·21	36·16	57·14	−20·98	0	Mount Abu.
9	4	10	7	0	0	0	0	0	N 52° E	N 71° E	2·4	3·8	−1·4	56	−14	91	+ 8	·576	+·060	6·5	+1·0	13	+8·0	9·00	2·84	+6·16	82·02	122·06	−40·04	1·78	Mercara.
6	1	3	5	9	5	0	0	1	S 59° E		2·3			46		88	+13	·408	+·073	8·9	+3·6	16	+8·0	14·85	4·63	+1·22	45·47	48·48	− 3·01	2·65	Ootacamund.
0	3	1	2	11	3	1	1	8	S 56° E		8·1			10		94	+14	·406	+·061	7·9	+2·7	20	+9·8	14·00	7·36	+6·64	42·65	46·52	− 3·87	1·85	Kodaikanal.
																															Extra India.
12	3	1	0	2	0	3	1	8	N 48° W					30						7·4	+1·6	9	−4·3	5·93	9·66	−4·13	51·87	49·21	+ 2·66	1·34	Singapore.
0	7	10	1	6	2	0	1	3	N 43° E					46								22	+6·6	17·83	13·15	+4·68	70·26	77·72	− 7·46	3·11	Penang.
15	0	0	0	0	0	2	7	1	S 72° W	S 57° W	2·6	3·9	−1·3	46	+24	89	+ 1	·842	−·007	6·6	+2·5	11	−2·5	9·77	14·37	−4·60	23·33	36·96	−13·63	2·44	Trincomalee.
26	1	2	1	0	0	0	0	0	N 45° E	N 48° E	1·8	4·5	−2·7	10	−20	95	+12	·831	−·005	6·8	+1·7	11	−1·8	5·05	12·74	−7·69	44·17	59·37	−15·20	1·24	Colombo.
6	8	2	0	0	0	1	5	8	N 35° W		5·2			56		92		·820		5·5		9		8·71			26·59			3·05	Hambantota.
0	1	3	3	2	5	2	3	11	N 63° W	N 7° W	4·5	4·5	0	23	−11					5·3	+1·8	6	−0·8	3·86	5·55	−1·69	51·50	53·02	− 1·52	1·05	Minicoy.
2	10	1	4	5	3	3	1	1	N 37° E		3·6			17		77	+ 2	·895	+·064	5·8	+1·2	10	+6·7	10·09	2·11	+7·98	49·73	50·21	− 0·48	2·59	Amini Divi.
																									0·03						Gyantse.
																									0·39						Pharijong.
13	0	14	0	2	0	0	0	1	N 51° E		1·0			47		81	+ 4	·315	−·026	1·7	−0·7	3	−0·6	0·89	2·20	−1·31	112·04	114·86	− 2·82	0·36	Gangtok.
																									0						Gartok.
29	0	1	0	0	0	0	0	0	N 45° E	N 5° W	0·5	0·7	−0·2	3	− 8	69*		·157*		2·3	−0·3	1	+1·0	1·00	0·01	+0·99	1·51	2·11	− 0·60	1·00	Kashgar.
0	6	3	0	0	0	10	8	3	N 79° W	S 45° W				50	+38	83†	+19	·197†	+·029	2·7	+0·8	1	−0·7	0·68	0·82	−0·14	1·16	2·67	− 1·51	0·60	Kabul.
																									0·60						Meshed.
2	15	5	2	0	0	0	1	5	N 3° E	N 27° E	6·6	7·1	−0·5	72	+15	68	+ 1	·512	0	0·6	−0·9	0	−0·6	0	0·32	−0·32	0	0·46	− 0·46	0	Jask.
10	0	0	3	0	0	0	7	10	N 58° W	S 74° W	2·5	2·5	0	43	+10	59	− 7	·545	−·039	2·1	+0·6	0	−0·8	0	0·39	−0·39	0	0·64	− 0·64	0	Muscat.
5	6	5	5	1	0	0	0	8	N 18° E	N 61° E	5·5	4·5	+1·0	49	−21	76	+ 8	·499	+·023	2·3	−0·4	1	−1·4	0·40	1·59	−1·19	0·45	1·71	− 1·26	0·35	Bushire.
5	2	3	3	1	1	4	9	2	N 82° W		3·6			23		80		·437		3·3		4	+2·2	2·17	0·96	+1·21	2·17	1·48	+ 0·69	0·80	Busrah.
26	0	0	0	0	0	1	3	0	S 76° W	N 62° W	0·7	1·8	−1·1	13	− 1	68†	− 2	·187†	+·004	2·2	−0·9	0	−1·6	0	0·64	−0·64	0·31	1·11	− 0·80	0	Ispahan.
11	8	9	0	0	1	0	2	1	N 18° E	N 11° E	3·7	1·6	+2·1	43	+15	66	+ 2	·208	+·004	4·7	+1·1	1	−2·2	0·30	0·95	−0·65	1·10	2·12	− 1·02	0·13	Tehran.
1	4	6	4	4	3	1	0	7	N 40° E	N 5° W	5·8	1·7	+4·1	30	+ 6	77	+10	·360	+·063	3·4	+0·4	3	+1·5	2·44	0·76	+1·68	2·65 (a)	1·09	+ 1·56	1·68	Baghdad.
5	0	25	0	0	0	0	0	0	N 45° E	N 76° E	9·1	9·4	−0·3	76	− 4	84	+12	·779	+·080	3·3	0	0	−0·3	0	0·09	−0·09	0·07	0·67	− 0·60	0	Aden.
7	0	5	1	5	7	4	1	0	S 22° E	S 45° E	2·9	3·4	−0·5	37	− 5	80	− 2	·839	−·006	2·7	−3·4	8	−3·4	2·18	8·04	−5·86	30·10	30·51	− 0·41	0·44	Zanzibar.

of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 2 days.
† " " 29 "
‡ " " 25 "

(a) Rainfall for September 1918 wanting.

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in November, 1918.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	66·2	62·7	80·9	−0·7	56·5	+2·2	68·7	+0·7	24·4	84·9	3rd	48·9	29th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	72·4	66·3	81·8	−2·1	56·2	−2·1	69·0	−2·1	25·6	92·0	11th	50·4	21st & 23rd.	...	...	...	...	...	...	...	.	...	...	...
	Chandkhira	65·2	64·7	87·4	+3·2	58·7	−1·1	73·1	+1·1	28·7	92·6	5th	52·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	61·4	60·0	83·4	+5·3	56·9	+0·6	70·1	+2·9	26·5	86·7	25th	50·6	18th	...	...	...	...	...	...	...	...	...	..	...
	Dikom	63·6	60·9	80·7	−0·4	54·7	−1·1	67·7	−0·7	26·0	84·2	4th	47·0	19th	...	...	...	...	...	...	...	...	..	...	...
	Golaghat	63·9	62·7	78·6	+0·7	55·3	...	66·9	...	23·3	81·2	4th	50·2	19th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	70·6	67·8	85·4	+0·4	70·5	+8·8	77·9	+4·6	14·9	90·0	19th 20th, & 28th.	61·4	26th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	63·3	61·9	79·8	−1·7	58·6	−1·1	69·2	−1·4	21·2	82·9	4th	53·4	18th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	65·5*	63·9†	79·8†	...	56·6†	...	68·2†	...	23·2	83·1	5th & 6th	50·6	4th	...	...	...	...	...	...	...	...	...	...	...
	Messa	73·9	67·6	84·6	−2·8	57·1	+1·1	70·9	−0·9	27·5	87·4	1st	51·1	19th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	60·9	59·1	81·6	−0·2	55·1	−1·5	68·3	−0·9	26·5	85·7	23rd	46·9	18th	...	...	..	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	74·6	68·4	84·7	−0·5	62·4	−1·1	73·5	−0·8	22·3	89·6	20th	59·1	26th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	..	...
	Goalundo	78·9	69·9	86·1	+1·3	65·9	+4·1	76·0	+2·7	20·2	91·9	5th	57·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	73·7	69·0	87·5	−0·6	65·7	+4·9	77·1	+2·1	20·8	93·6	6th	60·6	26th	...	...	...	...	...	...	...	.	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	..	..	..	...	...	...	..	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Dam Dim	60·3	58·8	85·7	−1·4	53·3	−0·2	69·5	−0·8	32·4	90·1	15th	47·0	20th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	73·4	67·5	83·9	−0·1	55·0	−1·3	69·5	−0·7	28·9	86·6	1st	48·0	27th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	72·5	65·1	82·8	−1·6	58·2	−1·1	70·5	−1·3	24·6	86·3	20th	49·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Baniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	,	...	..	..	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 8 days.
† „ „ 29 „

C.

and fifth class stations in India, etc., in November, 1918.

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam
...	...	..	...	...	82	— 7	·525	—·011	...	...	2	+0·5	0·98	0·55	+ 0·43	122·27	81·37	+40·90	0·63	Bishnath.
...	...	...	...	...	71	—10	·567	—·008	...	...	3	+1·0	1·29	0·84	+ 0·45	101·44	75·39	+26·05	0·62	Borjuli.
...	...	...	...	...	97	+ 2	·610	+·004	...	...	0	—1·3	0	1·06	— 1·06	103·59	91·61	+11·98	0	Chandkhira.
...	...	...	...	...	92	— 1	·502	—·033	...	...	0	—1·0	0·02	0·65	— 0·63	81·13	78·79	+ 2·34	0·02	Doom Dooma.
...	...	...	...	...	85	— 4	·502	—·017	...	...	2	+1·0	0·22	0·65	— 0·43	87·36	84·82	+ 2·54	0·10	Dikom.
...	...	...	...	...	93	+ 2	·552	—·037	...	...	0	—0·8	0	0·61	— 0·61	70·28	56·07	+14·21	0	Golagbat.
...	...	...	...	...	86	— 7	·642	+·044	...	...	0	—1·2	0	1·04	— 1·04	118·40	100·31	+18·09	0	Hailakandi.
...	...	...	...	..	92	— 2	·534	—·045	...	...	0	—1·2	0	0·61	— 0·61	82·20	67·62	+14·58	0	Jorehat.
...	...	...	...	...	91*	...	·573*	...	...	...	0	—1·6	0	1·24	— 1·24	47·10	42·66	+ 4·44	9	Lumding.
...	...	...	...	...	71	— 9	·591	—·026	...	...	0	-1·0	0	0·35	— 0·35	86·90	71·31	+15·59	0	Messa.
...	...	...	...	...	90	— 3	·481	+·018	...	...	1	—0·5	0·61	0·47	+ 0·14	112·98	68·80	+45·18	0·41	Panerihat.
																				III.—Bengal.
...	...	..	...	...	...	...	...	...	...	...	0	—1·4	0	1·12	— 1·12	82·42	79·73	+ 2·69	0	Comilla.
...		...	..	...	72	— 8	·616	—·037	...	...	0	—0·7	0	0·74	- 0·74	67·33	73·63	- 6·30	0	Brahmanbaria.
...	...	...	..	...	...	...	...	...	...	...	1	—0·3	0·33	1·20	— 0·87	77·39	61·97	+15·42	0·33	Faridpur.
...	...	...	...	...	62	—17	·614	—·009	...	...	0	--0·3	0	0·71	— 0·71	66·22	57·76	+ 8·46	0	Goalundo.
...	...	...	...	...	78	0	·657	+·042	...	...	0	—0·5	0	0·61	— 0·61	43·03	53·99	—10·96	0	Pabna.
...	...	..	...	...	...	...	...	...	...	...	0	- 0·6	0	0·54	- 0·54	66·29	58·28	+ 8·01	0	Sirajganj.
...	...	..	...	...	...	...	...	...	...	...	0	—0·6	0	0·49	— 0·49	66·09	50·83	+15·26	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	- 0·5	0	0·38	- 0·38	85·56	49·47	+36·09	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	—0·2	0	0·23	— 0·23	107·74	75·30	+32·44	0	Rangpur.
...	...	...	...	...	91	— 2	·486	—·042	...	...	2	+1·5	0·68	0·94	— 0·26	144·06	144·23	—0·17	0·38	Dam Dim.
...	...	...	...	...	72	— 3	·600	—·016	...	...	0	—1·0	0·13	0·80	— 0·67	148·01	136·12	+11·89	0·08	Kalchini.
...	...	...	...	...	66	— 7	·520	—·011	...	...	2	+0·8	0·52	1·07	— 0·55	137·67	145·91	— 8·24	0·22	Nagrakata.
...	..	...	...	...	...	...	...	...	...	...	0	—0·3	0	0·29	— 0·29	139·48	134·81	+ 4·67	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	1	—0·1	0·10	1·02	— 0·92	53·47	52·12	+ 1·35	0·10	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	—1·0	0	0·64	— 0·64	42·85	50·93	— 8·08	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	—0·6	0	0·59	— 0·59	35·82	48·25	— 12·43	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	—0·7	0	0·42	— 0·42	42·55	48·93	— 6·38	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	—0·3	0	0·31	— 0·31	47·82	46·52	+ 1·30	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	—0·3	0	0·27	— 0·27	52·03	47·37	+ 4·66	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	—0·2	0	0·23	— 0·23	54·71	52·94	+ 1·77	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	—0·4	0	0·30	— 0·30	54·83	40·24	+14·59	0	Chapra.
...	...	...	...	..	...	...	...	...	...	...	0	—0·4	0	0·32	— 0·32	36·72	42·57	— 5·85	0	Arrah.
...	...	..	...	...	...	...	...	...	...	...	0	—0·5	0	0·53	— 0·53	44·77	39·61	+ 5·16	0	Dehri.

* Mean of 28 days.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	64·2	54·7	85·0	...	54·3	...	69·6	...	30·7	89·9	1st	40·1	26th	28	1	1	0	0	0	0	0	0	N 22° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	75·7	72·4	86·5	...	71·3	...	78·9	...	15·2	95·9	1st	64·3	9th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	77·2	72·6	87·1	...	72·9	...	80·0	...	14·2	92·0	25th	68·8	11th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	69·7	66·0	80·0	...	61·0	...	70·5	...	19·0	84·5	8th	43·9	18th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	61·4	53·5	79·3	...	56·5	...	67·9	...	22·8	85·2	2nd	52·1	24th	0	13	15	1	0	0	0	1	0	N 25° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	29·9	33·9*	46·6	...	13·3	...	30·0	...	33·3	57·3	1st	8·0	22nd	9	7	0	0	0	1	2	1	10	N 37° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	72·8	72·1	82·5	+0·2	70·4	+9·7	76·5	+4·9	12·1	84·3	12th, 14th & 20th.	69·2	30th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	60·3	59·5	65·9	0	52·7	−0·6	59·3	−0·3	13·2	69·0	5th	50·9	11th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	52·7	...	30·3	...	41·8	...	21·8	61·1	1st	24·1	5th	...	...	...	...	...	...	...	...	...	...	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	66·4	−2·5	25·3	−6·3	45·8	−4·4	41·1	75·3	15th & 16th.	14·0	10th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 4 days.

C—*continued.*

and fifth class stations in India, etc., in November, 1918—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs, in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·16	− 0·16	11·11	28·37	−17·26	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0·04	0·42	− 0·38	41·66	76·04	−34·38	0·03	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0·05	0·01	+ 0·01	13·55	22·09	− 8·54	0·05	Udaipur.
																				XII.—Central Provinces.
1·2	...	...	6	...	53	...	·319	...	2·7	...	1	...	0·73	1·32	− 0·59	28·76	37·42	− 8·66	0·73	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	1	+ 0·2	0·75	0·53	+ 0·22	20·24	31·42	−11·18	0·75	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	11	+ 1·9	7·96	7·19	+ 0·77	1[illegible]·04	18·82	− 2·78	1·92	Tinnevelly.
...	...	...	...	...	85	...	·756	...	7·6	...	5	+ 2·6	5·52	2·19	+ 3·33	18·41	23·19	− 5·08	2·17	Anantapur.
...	...	...	...	...	80	...	·743	...	1·9	...	6	+ 2·8	3·27	2·28	+ 0·99	22·43	30·51	− 8·08	0·68	Guntur.
...	...	...	...	...	82	...	·555	...	...	...	1	...	0·59	...	...	58·63	...	...	0·45	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	17	+ 3·9	12·64	11·08	+ 1·56	60·27*	80·70	−20·43	3·58	Car Nicobar.
																				Kashmir.
...	...	...	90	...	59	...	·319	...	0·7	...	1	+ 0·7	0·12	0·45	− 0·[illegible]	24·63	30·66	− 6·03	0·12	Jammu.
...	...	...	...	...	...	...	...	...	...	...	5	+ 3·2	2·91	1·63	+ 1·[illegible]8	14·94	22·46	− 7·52	1·20	Sonamarg.
...	...	...	50	...	73†	...	·167†	...	2·9	...	2	+ 1·3	0·71	0·11	+ 0·[illegible]3	1·20	1·88	− 0·68	0·65	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·6	0	0·40	− 0·40	3·20	6·85	− 3·65	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	96	+35	·779	+·313	...	...	0	− 0·3	0·08	0·71	− 0·63	155·03	131·08	+ 23·95	0·08	Panighatta.
...	...	...	...	...	95	+17	·500	+·144	...	...	0	− 0·2	0	0·93	− 0·93	169·18	152·17	+ 17·01	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	4	...	5·15	5·37	− 0·22	168·28	142·41	+ 25·87	1·40	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	3	...	0·91	1·71	− 0·80	50·76	47·71	+ 2·55	0·40	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·42	...	...	132·49	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·19	...	...	33·19	...	...	0·14	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	2	+ 1·4	0·59	0·50	+ 0·09	40·07	83·78	−43·71	0·43	Mussoorie.
...	...	...	...	...	...	...	...	...	2·0	+0·1	3	+ 2·3	2·12	0·28	+ 1·84	2·38	3·58	− 1·20	1·02	Poo.
...	...	...	...	...	...	...	...	...	...	...	3	+ 2·1	2·77	0·40	+ 2·37	6·23	9·28	− 3·05	1·84	Kailang.
...	...	...	...	...	...	...	...	...	0·8	...	0	− 0·4	0·05	0·29	− 0·24	0·05	0·94	− 0·89	0·05	Pishin.

* Rainfall for August wanting.

† Mean of 4 days.

Table

Abstract of observations taken at 8 hrs. at 60 fourth and

Number of sub-Division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed month.	Date.	Lowest temperature observed month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi	31·7	33·3*	52·3	...	25·5	...	38·9	...	26·8	58·0	25th & 28th.	18·2	24th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	76·6	63·1	82·5	...	58·3	...	70·4	...	24·2	90·0	1st, 24th & 25th.	52·0	20th & 29th.	0	15	0	0	3	5	2	1	4	N 18° W	...
	Kirmanshah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amara	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shustar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
	Mohammerah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 8 days.

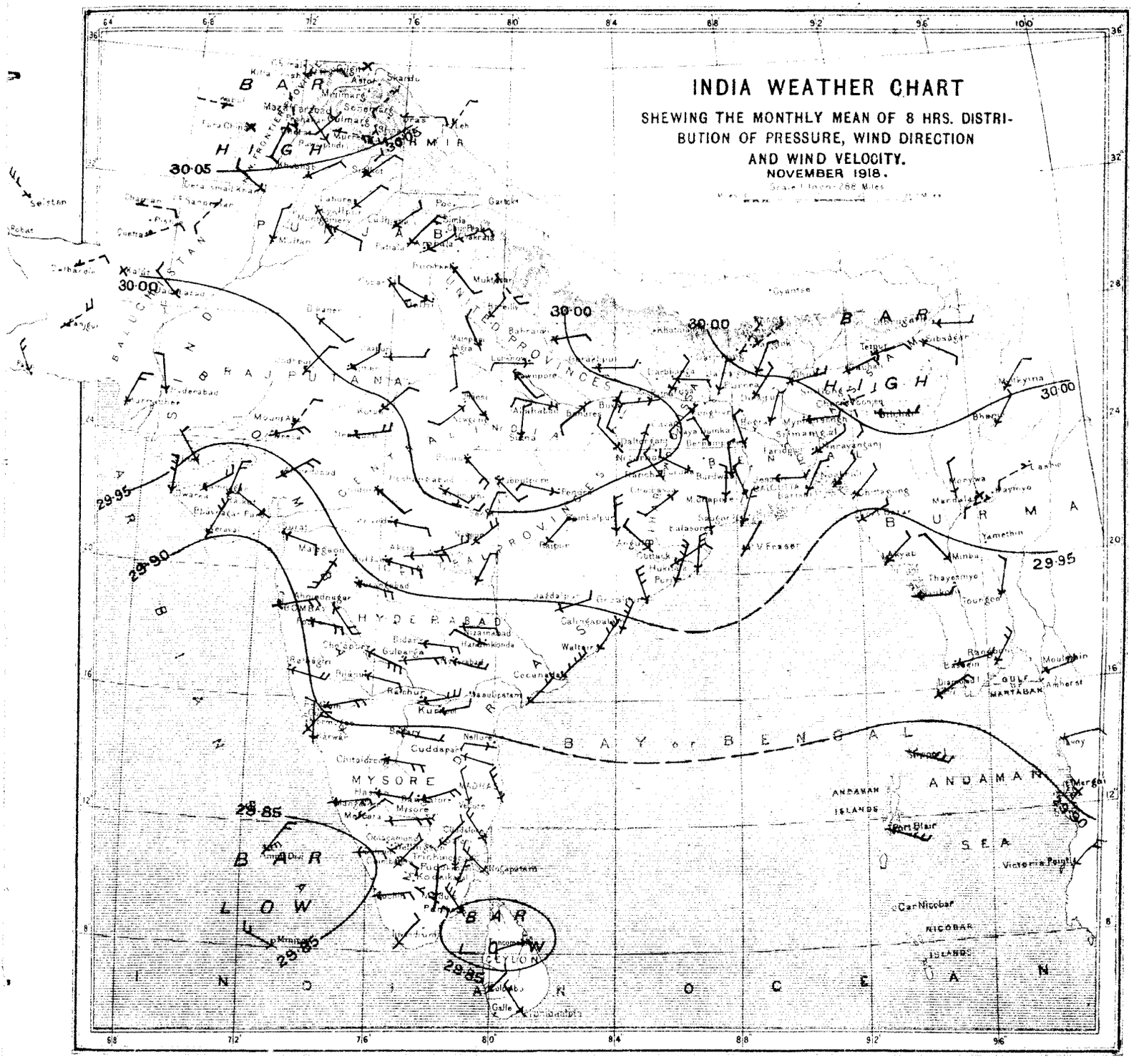
C—*concluded.*

Fifth class stations in India, etc., in November, 1918—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st May to 30th November, 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	91*	...	·179*	...	0·8	...	1	...	0·43	0·15	+0·28	31·85	26·60	+5·25	0·43	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	8	−3·9	4·20	7·71	−3·51	23·86	38·51	−14·65	1·50	Pemba.
...	...	...	30	...	69	...	·475	...	...	...	5	...	3·24	...	...	3·30	...	...	1·41	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	Amara.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kurna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	Mohammerah.

* Mean of 8 days.

SGPI-21-406DGO-14-2-22-325.

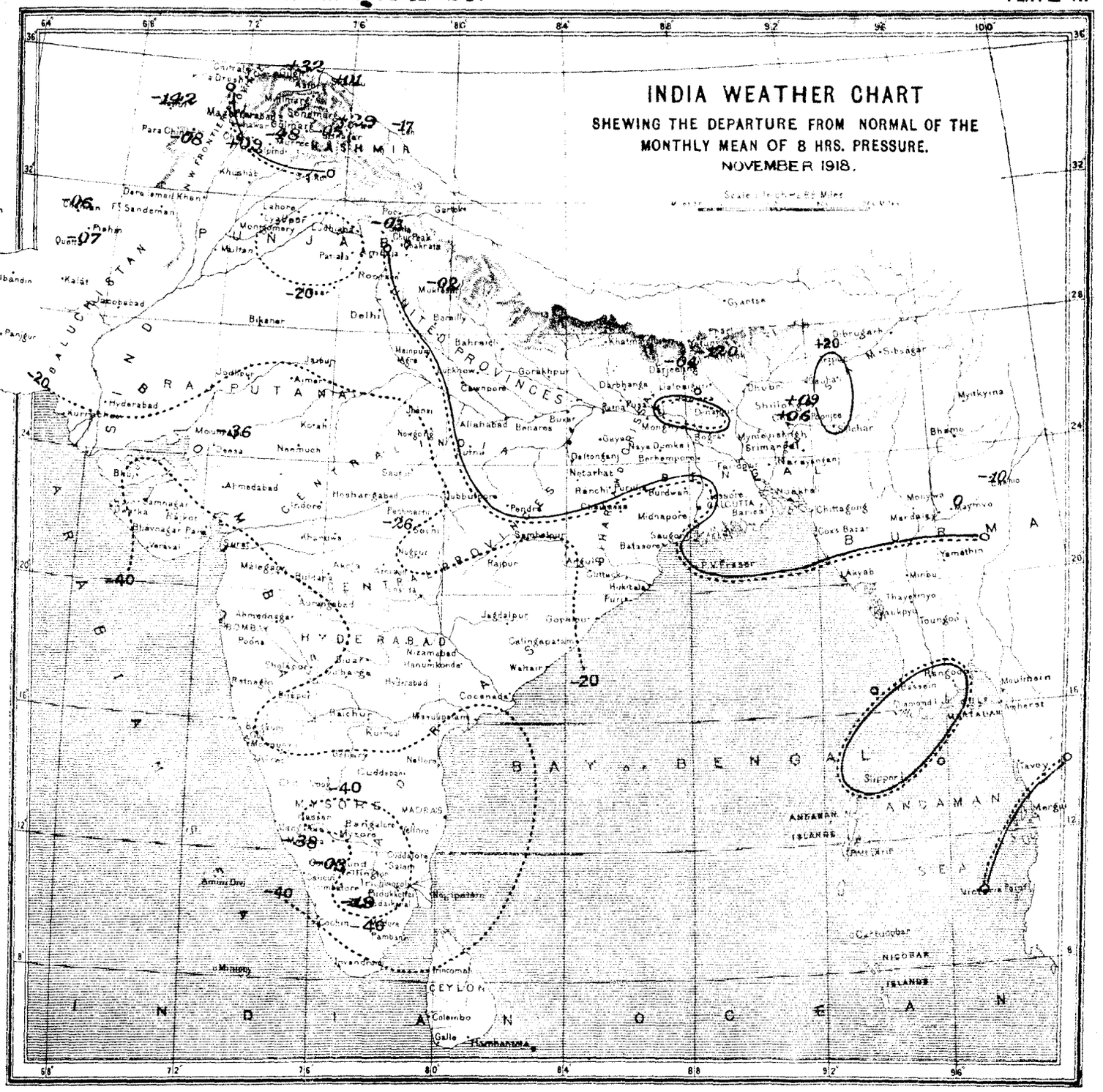


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to	2	miles per hour	...	one	feather added to the wind arrow.						
,,	,,	2 to	5	,,	,,	,,	...	two	feathers	,,	,,	,,	,,
,,	,,	5 to	10	,,	,,	,,	...	three	,,	,,	,,	,,	,,
,,	,,	10 to	20	,,	,,	,,	...	four	,,	,,	,,	,,	,,
		over	20	,,	,,	,,	...	five	,,	,,	,,	,,	,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.



The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

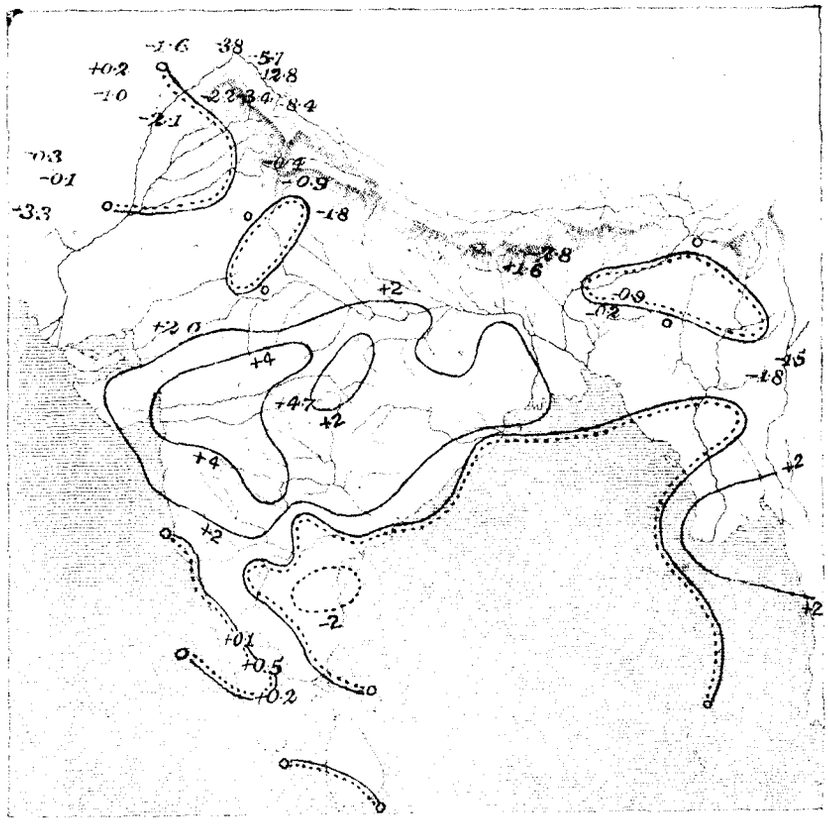


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

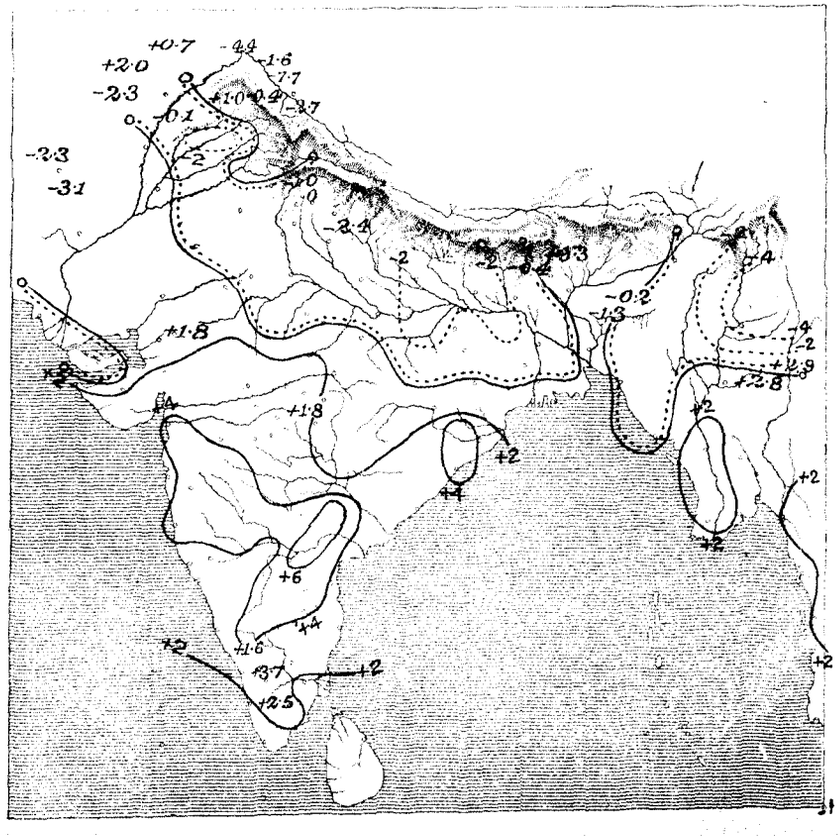


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

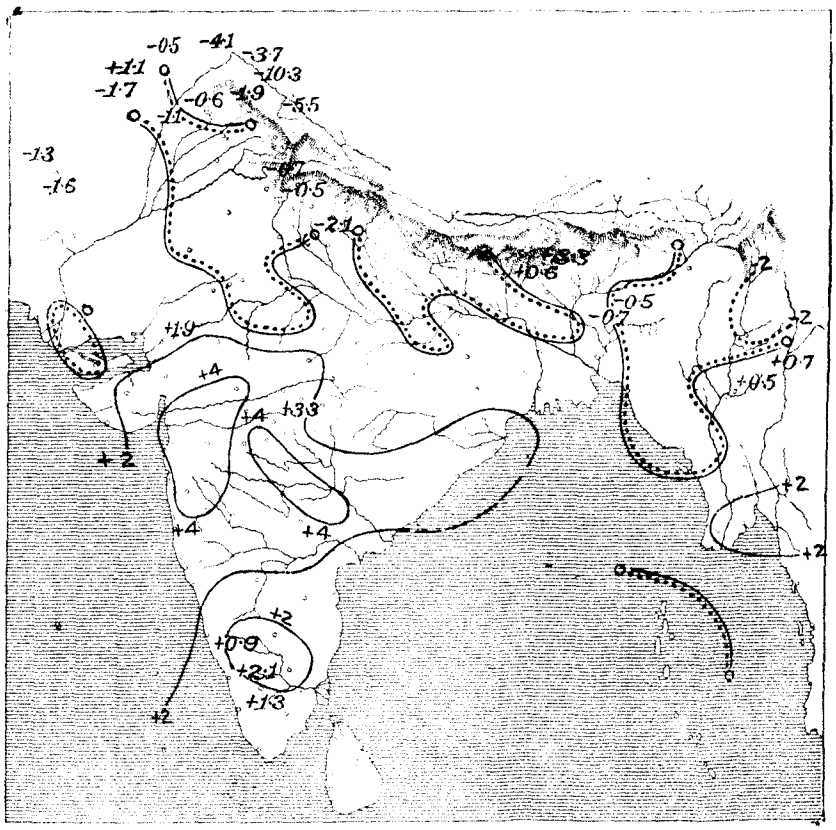
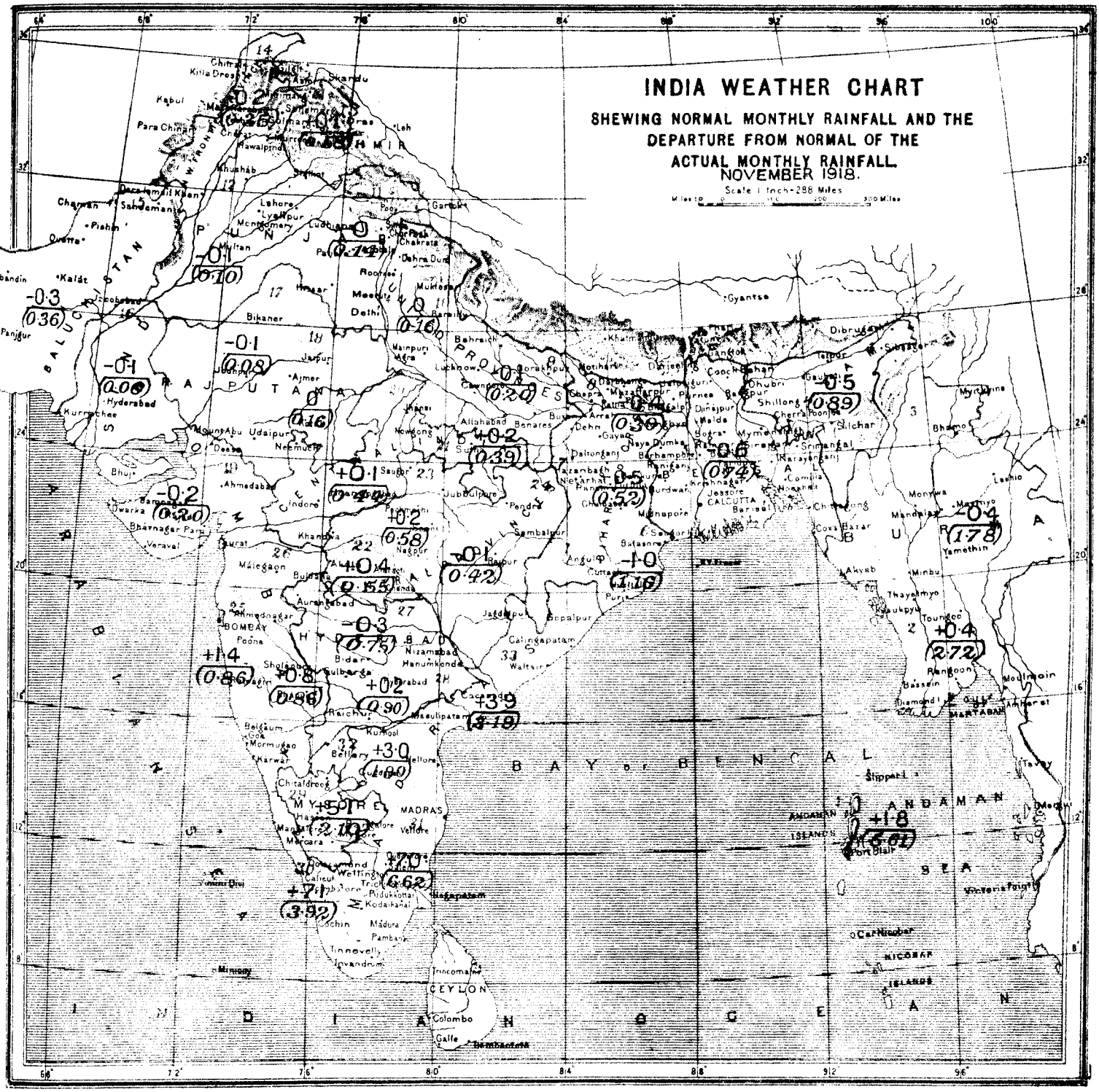


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF CLOUD
AMOUNT AT 8 HRS.

CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE
MONTH ON WHICH RAINFALL EQUALLED OR
EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North

GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA

CALCUTTA, DECEMBER, 1918.

INTRODUCTION.

THIS review of the weather in India during the month of December, 1918, is based on observations taken daily at 8 hrs. at 214 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 11 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such rainfall statements of the month as had been published by the Provincial Governments up to the date of the preparation of the review.

The brief notes on solar, magnetic and seismic disturbances are supplied by the chief observatories in the Indian area.

For a statement of the methods adopted in recording and tabulating the data, for each of the elements of observation, reference should be made to the introductory portion of the review for January.

Summary of the chief features of the weather in India during the month.

2. The monsoon rains continued in the south of the Peninsula for the first three days, and a storm from the Bay caused rain again in southeast Madras for about a week in the middle of the month. Precipitation due to winter depressions occurred along the northwest frontier, the Punjab, Kashmir and Sind, but rarely extended beyond these areas. Nearly general rain fell in the central parts of the country and Hyderabad on several days in the beginning of the month.

In Upper Burma, northeast India, the United Provinces, Rajputana, Bombay, Mysore, the Madras Deccan and the north Madras coast the month's fall was below normal.

Cloud was mostly in excess, but the air was drier than usual in northeast India, the United Provinces, Rajputana, Central India and the Central Provinces. Maximum temperature was generally below the average in northwest India, and minimum temperature was above it in Berar, the Deccan and Mysore.

The mean barometric pressure at the level of plains was ·016″ in excess.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—No observations were possible on 5 days during the month. The prominence record was complete on 13 days and imperfect on 10.

Sunspots.—23 new groups were recorded with a daily average of 4·2. The average life of a spot was 5·2 days as against 4·9 in November. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°–10°	11°–20°	21°–30°	Mean latitude.	Extreme latitudes.
North . . .	1	6	1	13°·4	9° & 22°
South . . .	4	9	2	14°·1	7° & 22°

Prominences.—31 large, 1 eruptive, and 13 metallic prominences were recorded. The tallest, 180″ high, was photographed on the 16th.

Magnetic disturbances.—"Great" disturbances were registered from the 8th to the 10th and from the 25th to the 30th and "Moderate" disturbances from the 1st to the 3rd on the 7th, 11th, and 12th, and from the 19th to the 23rd.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

$\phi = 10° 13' 50''$; $\lambda = 77° 28' 00''$; $h = 2343$ m.
Subsoil—Rock.

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{T_0^2}$
AN:				
AE:	9·76	17·4	1	2·8
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (A) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Dec. 1st	e P	2 46 06	...	...	...	...	...	
	i L	2 50 12	...	...	..	...	...	
	M	2 51 06	...	...	480	..	...	
	F	3 32 00	...	..	...	...	...	
„ 2nd	e P	10 18 42	...	...	...	...	...	
	e L	10 48 24	...	...	...	...	..	
	M	10 59 00	...	...	400	...	...	
	F	11 57 48	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (u) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Dec. 4th	e P	7 43 18	...	...	...	.	...	Widening of line.
	F	7 47 24	...	...	...	...	...	
„ 4th	e P	12 08 18	...	...	...	...	...	
	i L	13 00 42	...	...	...	.	...	
	M	13 18 06	...	...	760	..	...	
	F	15 27 12	..	...	...	...	...	
„ 4th	e P	19 04 42	...	...	...	...	...	Widening of line.
	F	19 12 54	...	...	...	...	...	
„ 6th	e P	8 43 18	...	...	...	..	...	Widening of line.
	F	10 42 48	...	...	...	...	...	
„ 9th	e P	18 52 30	...	...	...	...	...	Widening of line.
	F	20 06 48	...	.	...	...	...	
„ 18th	e P	21 44 06	...	...	50	...	...	A single shock.
	F	21 50 24	...	...	...	...	...	
„ 19th	e P	20 30 00	...	...	...	...	...	Widening of line. Beginning lost in hour mark.
	F	20 38 12	...	...	...	...	...	
„ 20th	e P	6 55 36	...	...	...	...	...	Widening of line.
	F	6 56 42	...	...	...	...	...	
„ 25th	e P	10 42 06	...	...	...	...	...	Widening of line. Amplitude was 0·3 m.m. at 10 h. 42·5 m.
	F	11 21 18	...	...	...	...	...	
„ 31st	e P	8 34 06	...	...	...	.	...	Widening of line.
	F	8 37 12	...	...	...	...	...	

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

BOMBAY OBSERVATORY.

Alibag Magnetic Record.

4. During the month of December, 1918, the traces showed 8 calm days, 20 days of small, 2 days of moderate and one day of great disturbances.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are 5th, 6th, 16th, 22nd and 29th.

The following table represents the magnetic character of each day during the month :—

TABLE 3.

Day.	Character.	Day.	Character.	Day.	Character.	Day.	Character.
1	M	9	S	17	S	25	G
2	S	10	S	18	S	26	S
3	S	11	S	19	S	27	S
4	S	12	S	20	S	28	C
5	C	13	S	21	S	29	C
6	C	14	S	22	C	30	C
7	S	15	C	23	S	31	S
8	M	16	C	24	S		

C=calm ; S=small ; M=moderate ; G=great ; V. G.=very great.

The mean observed absolute values of the several magnetic elements reduced to the mean monthly tabulations of the magnetograms, as also the ranges and the summed ranges of the horizontal force and declination for the month are as follows :—

Easterly declination	0° 26′ 34″.
Horizontal force	0·36873 C.G.S. unit.
Vertical force	0·17021 C.G.S. „
Inclination	24° 46′·7.
Horizontal force range	0·00044 C.G.S. unit.
Horizontal force summed range	0·00262 C.G.S. „
Declination range	1′·8.
Declination summed range	8′·2.

(NOTE.—Summed range means sum without regard to sign of 24 ordinates of diurnal inequality.)

Seismic records.

$\phi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$m. *Subsoil*—Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum Seismograph.

TABLE 4.

	V	To	ϵ	$\frac{r}{To^2}$
AN :				
AE :	20	32		
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Dec. 1st	P	2 39 45	...	...	...	...	...	
	S	2 43 24	...	...	...	...	...	
	M	2 46 8	...	...	770	...	...	
„ 2nd	P	10 5 55	...	...	...	...	...	
	M	10 54 22	...	...	100	...	...	
„ 4th	P	12 7 17	...	...	...	...	...	
	S	12 22 3	...	...	...	...	...	
	M	13 3 57	...	...	750	...	...	
6th	P	...	...	...	...	...	...	Beginning doubtful.
	M	9 44 12	...	...	30	...	...	
„ 25th	P	10 34 31	...	...	...	...	...	Beginning doubtful.
	M	10 42 50	...	...	30	...	...	

Four more small disturbances have been recorded at about 4d. 19½ h. ; 6d. 8½h., 10d. 9½h. and 16d. 20½h. ; but the movements are small and it is difficult to locate phases exactly.

C. W. B. NORMAND,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\phi = 22° 32'$ N; $\lambda = 88° 20'$ E; $h = 6{\cdot}4$m. *Subsoil*—Alluvial.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
Dec. 1st	P	2 39 54	4	...	...	...	...	
	S	2 43 54	6	...	...	...	...	
	L	2 46 30	11	...	...	...	...	
	M	2 48 18	...	655	569	...	...	
	F	3 17 54	...	...	...	...	...	
„ 4th	P	12 8 06	5	..	...	...	...	
	S	?	...	...	...	...	...	
	L	13 16 30	19	...	...	...	...	
	M_1	13 20 18	...	...	879	...	...	
	M_2	13 31 00	...	1603	...	...	...	
	F	13 58 06	...	...	...	...	...	
„ 10th	P	9 19 24	3	...	...	...	...	
	S	9 23 12	5	...	...	...	...	
	F	9 35 24	...	...	...	...	...	
„ 25th	P	10 31 12	...	...	...	...	...	
	S	10 40 36	...	...	...	...	...	
	F	10 57 36	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

$\phi = 31° 6'$ N; $\lambda = 77° 11'$ E; $h = 2{\cdot}1$ *km. Subsoil*—Rock.

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs (masses 50 kg.).

TABLE 6.

	V	To	ϵ	$\frac{r}{To^2}$
AN:	14	45	1	
AE:	14	45	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1918.		h. m. s.						
December 1st	P	2 36 42	...	...	...	...	...	
	L	2 39 0	12	...	...	...	...	
	M	2 39 30	...	893	...	...	...	
	F	3 18 48	...	...	...	...	...	
„ 2nd	e P	10 15 24	...	...	...	...	...	
	L	10 43 48	...	...	...	...	...	
	M	10 45 18	...	...	...	...	...	
	F	11 53 18	...	...	...	...	...	
„ 4th	P	3 48 54	...	...	...	...	...	
	F	3 49 54	...	...	...	...	...	Very slight local shock.
„ 4th	e P	12 7 36	...	...	...	...	...	
	e L	12 57 42	...	...	...	...	...	
	M	12 58 18	...	464	...	...	...	
	M^2	13 11 12	...	614	...	...	...	
	F	14 35 42	...	...	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km).	Remarks.
		h. m. s.						
Dec. 6th	e P	8 51 24	...	...	...	...	...	
	M	9 30 42	...	36	...	...	...	
	F	9 57 6	...	...	...	...	...	
„ 10th	e P	9 15 48	...	...	...	...	...	
	F	9 20 42	...	...	...	...	...	Slight local shock. Felt at Drosh, Hati, Sialkot, Kabul and Srinagar.
„ 27th	e P	16 11 12	...	...	...	...	...	
	F	16 12 24	..	...	...	...	...	Very slight local shock.

The following table contains a list of earthquakes that were reported :—

TABLE 7.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity. Rossi-Forel scale.	No. of shocks.	Remarks.
	1918.	h. m.	sec.			
Chaman . . .	Dec. 1st	16 15	A few second	5	3	
Drosh . . .	„ 10th	9 10	28	7	3	
Hati (N. W. F. P.) .	„ 10th	9 15	180	7	1	
Sialkot . . .	„ 10th	9 15	3	6	2	
Kabul (Afghanistan) .	„ 10th	9 23	50	6	3	
Srinagar (Kashmir) .	„ 10th	9 23	4	7	1	
Drosh . . .	„ 18th	16 40	8	6	1	

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Scientific Assistant.

Weather in the Indian Ocean.

7. The following table gives the departures from normal of pressure and rainfall, as well as the actual and normal wind direction and velocity at the three representative stations.

TABLE 8.

	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	+·018	+·041	+·026
Actual mean wind direction . .	S 78° E	S 85 E°	N 15° W
Normal mean wind direction . .	S 88° E	N 85° E	N 44° W
Actual mean wind velocity (miles per diem).	173	58	99
Normal mean wind velocity (miles per diem).	187	110	109
Rainfall departure from normal (in inches)	—4·16	+1·32	—4·39

Depressions and cyclonic storms.

8. There was an area of very disturbed weather on the 8th and 9th in the south of the Bay of Bengal; information about it is insufficient, but it appears likely that a storm had formed there on the 8th and that the centre lay at about lat. 7°, long. 88° till the morning of the 9th. The storm then took a curved course in a somewhat northwesterly direction and on the morning of the 11th the centre was nearly 250 miles east of Cuddalore. The disturbance decreased in intensity during the day but continuing to move westwards, it caused some rain in south Madras on the 11th and 12th; on the latter date there was hardly any sign of a disturbance other than rain. High seas and winds of gale force were experienced in the southeast Arabian Sea on the 13th, 14th and 15th but there does not appear to have been any depression there on those days. The *S. S. Akita Maru* and *Gregory Apcar* had very high seas and winds up to force 9 when passing through the south of the Bay between the 8th and the 10th. The Government Chartered Steamer *Kum Chow* which left Rangoon for Colombo on the 4th was probably lost in this storm.

Several ships recorded rough weather in the south of the Bay and of the Arabian Sea during the last week of the month, showing that the monsoon had not then withdrawn from that area. The schooner *Daria Dolat* was reported to have been wrecked off Point Pedro, Ceylon, towards the end of the month.

Winter disturbances caused some cloud in the extreme north of the country every day in the month, and precipitation occurred somewhere or other in the Punjab, Sind and the surrounding hills between the 9th and the 14th, the 19th and the 22nd, and the 26th and the end of the month.

Pressure.

9. Pressure was slightly in defect in Burma and more or less in excess elsewhere; the excess was greatest, 0·04″ in Sind and Rajputana. The mean pressure over the plains of India was 0·016″ above normal.

The vertical gradient was very steep over the greater part of northwest India.

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	″
Burma	—·010
Assam	+·012
Bengal	+·012
Bihar and Orissa	+·020
United Provinces	+·027
Punjab	+·025
North-West Frontier Province	+·027
Sind	+·038
Rajputana	+·037
Bombay	+·013
Central India	+·019
Central Provinces	+·011
Hyderabad	+·007
Mysore	+·015
Madras	+·009

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference B.—A.
	″		″	″
Quetta	—·011	Jacobabad	+·041	+·052
Leh	—·038	Lahore	+·022	+·060
Murree	—·032	Peshawar	+·026	+·058
Simla	+·005	Ludhiana	+·013	+·008
Mukteswar	+·011	Bareilly	+·027	+·016
Darjiling	—·012	Dhubri	+·015	+·027
Mount Abu	+·012	Deesa	+·032	+·020
Pachmarhi	—·003	Khandwa	+·003	+·006
Kodaikanal	+·011	Madura	+·005	—·006

Temperature.

10. Table 11 gives the actual temparature and its departure from normal in the 33 sub-divisions, while table 12 gives only the departures from normal in the 15 chief political divisions.

TABLE 11.

SUB-DIVISION.	ACTUAL TEMPERATURE.				DEPARTURE FROM NORMAL OF		
	Mean maximum.	Mean minimum.	Monthly mean of mean between maximum and minimum.	Mean daily range of temperature.	Maximum.	Minimum.	Daily range.
	°	°	°	°	°	°	°
1. Bay Islands	84·5	77·1	80·8	7·4	—0·3	+0·7	—1·0
2. Lower Burma	85·3	68·3	76·8	17·0	+0·9	+0·7	+0·2
3. Upper Burma	79·4	56·7	68·0	22·7	—0·2	+1·2	—1·4
4. Assam	75·9	50·7	63·3	25·2	+0·3	—0·9	+1·2
5. Bengal	77·5	54·0	65·8	23·4	—0·2	—1·8	+1·6
6. Orissa	81·0	57·5	69·2	23·5	+1·2	+0·4	+0·8
7. Chota Nagpur	76·9	48·9	62·9	28·0	+0·5	—1·5	+2·0
8. Bihar	75·2	48·9	62·0	26·3	—0·3	—1·8	+1·5
9. United Provinces, East	74·8	46·5	60·7	28·3	—0·1	—1·9	+1·8
10. United Provinces, West	73·4	45·3	59·3	28·1	—0·9	—1·6	+0·7
11. Punjab, East and North	69·6	43·2	56·4	26·4	—1·7	+0·1	—1·8
12. Do., Southwest	69·9	43·2	56·6	26·7	—2·2	+0·3	—2·5
13. Kashmir	41·6	23·8	32·7	17·8	—4·5	—1·4	—3·1
14. North-West Frontier Province	65·6	40·9	53·3	24·7	—4·1	+1·1	—5·2
15. Baluchistan	60·8	33·6	47·2	27·2	—3·8	—1·7	—2·1
16. Sind	76·3	51·4	63·8	24·9	—1·7	—0·7	—1·0
17. Rajputana, West	76·1	48·4	62·3	27·7	—1·6	—1·6	0
18. Do., East	74·8	47·1	60·9	27·7	—2·8	—2·5	—0·3
19. Gujarat	83·4	55·9	69·7	27·5	—0·8	—0·4	—0·4
20. Central India, West	78·3	48·3	63·3	30·0	—0·7	—1·1	+0·4
21. Do. do., East	73·1	46·4	59·8	26·7	—2·1	—0·6	—1·5
22. Berar	83·1	58·5	70·7	24·6	+0·9	+2·9	—2·0
23. Central Provinces, West	78·3	51·7	65·0	26·7	—1·1	+0·7	—1·8
24. Do. do., East	80·1	53·6	66·9	26·6	+0·8	+1·0	—0·2
25. Konkan	87·1	69·1	78·1	18·0	—0·1	+1·2	—1·3
26. Bombay Deccan	85·4	58·6	71·9	26·8	+0·8	+3·7	—2·9
27. Hyderabad, North	84·7	59·4	72·1	25·3	+1·3	+5·3	—4·0
28. Do., South	84·6	63·4	73·9	21·2	+0·5	+3·2	—2·7
29. Mysore	81·0	61·1	71·0	19·9	+0·5	+2·2	—1·7
30. Malabar	86·9	72·7	79·8	14·2	—0·1	+1·0	—1·1
31. Madras, Southeast	83·7	70·4	77·0	13·3	—0·2	+1·2	—1·4
32. Do., Deccan	85·7	64·7	75·2	21·0	—0·8	+2·6	—3·4
33. Do., Coast, North	81·5	67·4	74·4	14·1	+0·2	+1·9	—1·7

TABLE 12.

DIVISION.	DEPARTURE FROM NORMAL OF		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·4	+0·9	+0·6
Assam	+0·3	—0·9	—0·3
Bengal	—0·2	—1·8	—1·0
Bihar and Orissa	+0·4	—1·0	—0·3
United Provinces	—0·5	—1·7	—1·1
Punjab	—1·9	+0·2	—0·9
North-West Frontier Province	—4·1	+1·1	—1·5
Sind	—1·7	—0·7	—1·2
Rajputana	—2·5	—2·3	—2·4
Bombay	—0·2	+1·1	+0·5
Central India	—1·4	—0·8	—1·1
Central Provinces	—0·1	+1·3	+0·6
Hyderabad	+0·8	+3·9	+2·4
Mysore	+0·5	+2·2	+1·3
Madras	—0·2	+1·5	+0·7

Winds.

11. The following table gives the actual and departure from normal of the wind velocity and steadiness for the fifteen chief political divisions:—

TABLE 13.

DIVISION.	HOURLY WIND VELOCITY IN MILES.		WIND STEADINESS.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·6	+0·1	53	— 4
Assam	1·4	—0·5	35	— 1
Bengal	1·5	—0·1	33	—15
Bihar and Orissa	1·8	0	47	0
United Provinces	1·1	—0·2	25	+ 2
Punjab	1·5	+0·3	29	+12
North-West Frontier Province	0·5	—0·7	13	— 7
Sind	3·4	—0·8	55	+ 4
Rajputana	1·6	—0·5	28	+11
Bombay	3·8	—0·7	52	— 9
Central India	1·6	—0·6	26	— 9
Central Provinces	2·4	+0·3	46	+ 6
Hyderabad	3·6	—0·7	48	+ 6
Mysore	4·8	—00·2	74	—12
Madras	4·5	+0·4	63	— 4

Wind directions were mostly normal. Jacobabad and Bikaner had an unusual southerly component and Leh an unusually northerly component.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hrs. with their departures from normal :—

TABLE 14.

Division.	Hygrometry; 8 hrs.				Cloud.	
	Mean humidity.	Departure from normal.	Mean vapour tension in inches of mercury.	Departure from normal in inches of mercury.	Mean cloud amount at 8 hrs.	Departure from normal.
	%					
Burma . .	86	0	·618	+·036	4·0	+1·2
Assam . . .	92	— 2	·417	—·012	4·0	+0·8
Bengal . . .	78	— 6	·411	—·050	2·1	+0·6
Bihar and Orissa .	68	— 9	·335	·051	2·5	+1·0
United Provinces .	66	—11	·259	—·059	1·5	+0·1
Punjab . .	73	0	·243	—·004	2·9	+0·2
North-West Frontier Province.	77	+ 7	·230	+·017	2·6	—0·5
Sind . . .	59	— 1	·266	—·021	1·5	—0·7
Rajputana . .	49	— 8	·199	—·051	2·1	+0·1
Bombay . .	57	— 1	·388	+·002	2·2	+0·6
Central India .	61	— 5	·268	—·026	2·4	+0·8
Central Provinces .	60	— 4	·326	—·013	2·8	+0·9
Hyderabad . .	65	+ 2	·467	+·039	3·7	+1·8
Mysore . .	75	+ 1	·514	+·023	4·4	+0·5
Madras . .	80	+ 3	·674	+·032	4·6	+1·0

Rainfall.

13. The following tables give the actual, normal and the departures from normal of rainfall for the 33 sub-divisions and 15 chief political divisions of India :—

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	5·0	4·5	3·04	3·50	—0·46	— 13
2. Lower Burma	1·5	0·5	0·69	0·48	+0·21	+ 44
3. Upper Burma	0·9	0·8	0·35	0·47	—0·12	— 26
4. Assam	0·3	0·8	0·07	0·40	—0·33	— 83
5. Bengal	0·3	0·4	0·12	0·21	—0·09	— 43
6. Orissa	0·3	0·5	0·10	0·30	—0·20	— 67
7. Chota Nagpur	0·1	0·4	0·04	0·20	—0·16	— 80
8. Bihar	0	0·3	0	0·13	—0·13	—100
9. United Provinces, East	0·1	0·5	0·02	0·24	—0·22	— 92

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
10 United Provinces, West	0·1	0·9	0·04	0·38	—0·34	— 89
11. Punjab, East and North	0·7	0·9	0·28	0·45	—0·17	— 38
12. Do., Southwest	0·9	0·5	0·24	0·20	+0·04	+ 20
13. Kashmir	0·5	2·7	2·71	1·87	+0·84	+ 45
14. North-West Frontier Province	2·5	1·0	0·81	0·55	+0·26	+ 47
15. Baluchistan	2·7	1·9	1·14	0·75	+0·39	+ 52
16. Sind	1·0	0·2	0·20	0·09	+0·11	+122
17. Rajputana, West	0	0·3	0	0·13	—0·13	—100
18. Do., East	0	0·7	0·01	0·25	—0·24	— 96
19. Gujarat	0	0·2	0	0·05	—0·05	—100
20. Central India, West	0·3	0·6	0·11	0·20	—0·09	— 45
21. Do., East	0·7	0·6	0·26	0·23	+0·03	+ 13
22. Berar	0·8	0·7	0·33	0·44	—0·11	— 25
23. Central Provinces, West	0·9	0·7	0·43	0·39	+0·04	+ 10
24. Do., East	1·1	0·8	0·43	0·37	+0·06	+ 16
25. Konkan	0·1	0·3	0·03	0·15	—0·12	— 80
26. Bombay Deccan	0·5	0·5	0·22	0·31	—0·09	— 29
27. Hyderabad, North	1·4	0·7	1·05	0·37	+0·68	+184
28. Do., South	0·6	0·4	0·57	0·21	+0·36	+171
29. Mysore	0·8	0·9	0·33	0·50	—0·17	— 34
30. Malabar	1·7	1·5	1·24	1·06	+0·18	+ 17
31. Madras, Southeast	5·5	4·3	4·03	3·64	+0·39	+ 11
32. Do., Deccan	1·2	0·9	0·37	0·48	—0·11	— 23
33. Do., Coast, North	1·2	1·1	0·69	0·98	—0·29	— 30

TABLE 16.

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·48	0·48	0	0
Assam	0·07	0·40	—0·33	— 83
Bengal	0·12	0·21	—0·09	— 43
Bihar and Orissa	0·03	0·19	—0·16	— 84
United Provinces	0·03	0·32	—0·29	— 91
Punjab	0·27	0·39	—0·12	— 31
North-West Frontier Province	0·81	0·55	+0·26	+ 47

DIVISION.	RAINFALL.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·20	0·09	+0·11	+122
Rajputana	0	0·21	—0·21	—100
Bombay	0·11	0·20	—0·09	— 45
Central India	0·16	0·21	—0·05	— 24
Central Provinces	0·40	0·39	+0·01	+ 3
Hyderabad	0·83	0·30	+0·53	+177
Mysore	0·33	0·50	—0·17	— 34
Madras	2·36	2·22	+0·14	+ 6
Mean of India	0·46	0·49	—0·03	— 6

Precipitation was above normal at Kashgar and Baghdad. It was, on the whole in excess in Persia also.

Snowfall.

I.—CENTRAL ASIA.

14. Half an inch of snow fell on the 25th and again on the 26th at Kashgar.

II.—PERSIA.

Meshed had half an inch on the 26th and 9½ inches on the 27th.

III.—AFGHANISTAN.

About a foot and a half of snow fell at Kabul and its vicinity on the 11th and 12th, and there was another fall there on the 19th. Snowfall occurred on the Paghman, Chinari, Khak Jabbar and nearly all the ranges of the Hindukush on the 5th and 10th.

The accumulation at the date of the report (December 26th) was a foot at Kabul and was stated to be about 6 feet on the higher passes of Hazarajat, Hindukush, Paghman and Chinari, and about 2½ feet at Khak Jabbar and the adjacent peaks.

The accumulations were considered to be above the average, and the actual fall of the month was said to be larger and severer than during the previous ten years.

IV.—BALUCHISTAN.

A slight fall occurred at Quetta on the 9th and falls totalling about half a foot on the 21st and 22nd. The precipitation on the hills was probably greater. The report was dated the 23rd December.

V.—NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—The following approximate amounts fell during the month:—

TABLE 17.

Locality.		Dates.				
		10th.	11th.	20th.	27th.	28th.
		″	″	″	″	″
Marwatti	(11,000′)	2	7	3	2	7
Pirghal	(11,000′)	2	7	3	...	7
Bosh	(11,000′)	...	7	...	...	7
Drenashtar	(11,000′)	...	7	...	...	7
Janimela	(9,000′)	...	6	...	...	...
Kundighar	(9,000′)	...	6	...	...	...
Spera	(9,000′)	...	4	...	...	...
Kotkun	(7,900′)	...	3	...	...	...

At the end of the month snow was lying to a depth of about 2 inches on the highest peaks and in sheltered ravines.

(*b*) *Parachinar* (*Kurrum*).—Snow fell at the station on the 11th, 12th, 19th and 20th (the date of report), the total fall being about 9 inches. Winter was considered to be early this year, and the amount of snow on the adjacent hills was larger than in the previous year.

(*c*) *Drosh.*—(Report up to 15th December) three falls (5th, 12th and 14th) occurred during the first half of the month, the heaviest of them being 1½ inches on ground and above 10 feet on high ranges.

(*d*) *Hazara.*—Snowfall during the period 15th to 31st December 1918 was as shown below.

TABLE 18.

Locality.	Total snowfall (15th to 31st December 1918.)	
	Feet.	Inches.
Narang	6	10
Paluderan	5	0
Kagan	2	9
Jared	0	10
Malkandi	0	5
Sundigali	3	6
Jachha	2	6
Thandiani	2	1
Dungagali	1	1

VI.—KASHMIR.

(*a*) *Srinagar.*—Snow commenced on the 5th in the Srinagar valley, which is earlier than usual.

(*b*) *Skardu.*—About half an inch of snow fell on the mountain ranges on the 8th, 11th, 12th, 13th, 14th, 17th and 28th, about a foot on the 19th, 20th, 21st and 27th and more than three feet on the 29th, 30th and 31st. On many of these days snow fell also at the station.

At the end of the month about 5 inches of snow was lying at the station and more than four feet on the high ranges. This is above normal.

(*c*) *Dras.*—Had nearly three feet of snow.

(*d*) *Kargil.*—Actual falls (approximate) were:—

TABLE 19.

—	13th.	14th.	20th.	21st.	28th.	30th.	31st.
	″	″	″	″	″	″	″
On the ground	½	½	3½	2	3½	½	12
On the mountains	1	3	3½	4	3½	1	18

(*e*) *Leh.*—Very little snow fell at the station itself but there were frequent falls on the surrounding mountains. It was judged that some heavy falls must have occurred on the passes to the north though they were open for traffic to about 14,000 feet towards the end of the month.

VII.—THE PUNJAB.

(*a*) *Chamba-Dalhousie Forest Range.*—Snow fell on the 5th, between the 11th and the 13th, and on the 30th. The first fall occurred only at higher altitudes and was only one inch deep. The second was three feet deep at Kalatop and two inches at Surkhigali (5,500 feet) and descended to about 5,000 feet. The third occurred only at higher altitudes. The accumulation at Kalatop at the end of the month was nine inches.

Chamba Range.—An inch of snow fell at higher altitudes on the 5th, 2½ feet at Blouse resthouse between the 11th and the 13th and a foot at that place on the 30th. The snow descended to 4,500 feet on the second occasion. The total fall was considered to be above normal.

Bharmaur Range.—Ghararoo (8,000 feet) had snowfalls on three days, the total depth being about 2 feet. The accumulation at the end of the month on the higher passes was not known, but was considered to be not less than 10 or 12 feet.

Bhandal Range.—Depth of falls at 3 places :—

TABLE 20.

Date.	Langera.	Bhandal.	Dura.
	Inches.	Inches	Inches
5th . . .	...	½	...
11th . . .	21	½	...
12th . . .	12	½	...
13th . . .	14	8	12
19th . . .	2	½	...
28nd . . .	4	1	1

Tisa Range.—Snow fell on 15 days in the range, extending on the last occasion to Tisa head-quarter. The accumulation at Sach pass was nearly 3 feet and at Chaihni pass 4 feet. The snowfall of the month was considered less than usual.

Bhattiyat Range.—Snow fell on high peaks on the 14th and 31st. About 2 feet of snow was lying at Chunari pass (8,300 feet) at the end of the month. The snowfall of the season was considered to be less than usual.

Kilar.—(8,562 feet). Snow fell on the 11th, 12th, 13th, 19th, 20th, 30th and 31st, the total depth being about 3 feet. This was considered normal.

(*b*) *Kulu.*—Snow fell on the 12th and the 16th (the date of report) and came down to Nagar (6,000 feet) on the latter date.

(*c*) *Kilba (Simla Hills.)*—The following falls occurred at the station or in the neighbourhood.

December, 5th, light	Down to	7,000 feet.
„ 13th, 8″ at Kilba . . .	„ „	the Sutlej.
„ 14th, 15th, light . . .	„ „	9,000 feet.
„ 16th, 17th, light at Kilba .	„ „	6,500 „
„ 19th, 20th, light . . .	„ „	9,000 „
„ 29th	„ „	12,000 „
„ 31st	„ „	9,000 „

Accumulations at the end of the month—

Chitkul Pass	8 feet
Rupan „	7 „
Brua „	7 „
Shatul „	7 „
Harang „	4 „

The month's fall was considered to be above the average.

Poo :—Had 2″ on the 14th.

VIII.—THE UNITED PROVINCES.

Almora :—(Report from 1st to 17th December).

TABLE 21.

Actual falls.

Locality.	Depth.	Distance from perpetual snow to which the snow descended.
	Feet.	
Malla Danpur . . .	6	3 or 4 miles.
Malla Durma	7½	6 miles.
Malla Johar	4	
Chaudas	4½	2½ miles.
Byans	6	7 miles.

Accumulations.

Pindari Peak	6 feet.
Kaphini „	6 „
Nandakot „	6 „
Millandhura	3 „
Binkaru Pass	9 „
Nuwe „	15 „

IX.—ASSAM.

(*a*) *North-east Frontier District* :—December was drier than usual and the snow line was very high. No snow was observed on Sita, (11,700′) and only occasional sprinklings on Chi and Poi (13,000′) and Dapha Bum (15,200′).

(*b*) *Kamrup* :—Between the 5th and the 10th there was a fairly heavy fall which lay on the ground for some days at a lower altitude than usual.

Summary.

15. The month's fall was above normal in Afghanistan, Persia, the North-West Frontier Province and the greater part of the western Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in December, 1918.

Table

Abstract of observations taken at 10 hrs. and 16 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° Lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal.																					
5	Calcutta . .	21	30·105	29·981	·124	30·037	+·009	30·006	77·0	55·2	21·8	81·2	49·7	31·5	69·4	75·2	65·1	—0·2	53·1	60·1	61·2	58·1
	VI.—Punjab.																					
11	Lahore . . .	702	29·432	29·346	·086	29·379	+·024	30·088	69·3	43·7	25·6	77·8	35·3	42·5	56·8	67·9	54·3	—0·3	41·6	50·0	55·4	49·0
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·705	28·607	·098	28·645	+·035	30·069	75·0	46·1	28·9	80·2	36·9	33·3	67·0	72·7	58·6	—2·9	40·6	51·4	54·0	48·7
	X.—Bombay.																					
25	Bombay . .	37	30·004	29·894	·110	29·956	+·003	29·933	84·4	69·1	15·3	88·1	64·7	23·4	76·4	79·9	76·0	—0·4	61·1	67·4	70·5	66·3
	XIV.—Mysore.																					
29	Bangalore . .	3,021	27·057	26·949	·108	27·004	+·022	29·875	75·8	59·8	20·0	82·7	52 3	30·4	73·0	77·3	68·9	+1·4	58·6	63·6	64·7	62·3
	XV.—Madras.																					
31	Trivandrum . .	198	29·796	29·693	·103	29·749	+·022	29·877	83·1	73·4	9·7	85·7	70·3	15·4	79·2	81·6	77·5	+0·1		74·0	75·2	
	Pudukkottai . .	318	29·720	29·604	·116	29·662		29·913	83·3	71·7	11·6	86·8	66·7	20·1	77·9	80·3	77·5			71·1	71·3	
	Madras . .	22	30·033	29·934	·099	29·983	+·003	29·936	86·1	72·0	11·1	86·0	67·3	18·7	79·6	80·2	76·8	+1·1	70·4	73·7	73·8	72·6
	Hill stations, excluding Kashmir and Baluchistan.																					
	Khatmandu .	4,388	25·776	25·685	·091	25·728	+·018	25·682	66·2	34·4	31·8	70·4	28·0	42·4	48·3	61·3	49·4	—3·2	33·0	44·0	49·2	42·1
	Kodaikanal . .	7,388	22·882	22·820	·062	22·851		22·786	61·1	47·9	13·2	67·8	41·3	26·5	57·5	55·8	54·5		44·0	51·5	51·9	49·1
	Extra India.																					
	Seychelles . .	15	29·997	29·907	·090	29·962	+·026†	29·900	82·9	77·0	5·9	85·3	74·9	10·4	80·8	81·6	78·8	+0·9†	71·3	76·6	76·5	74·8
	Mauritius . .	181				29·841	+·018	29·907	87·1	70·0	17·1	91·4	64·0	27·4			77·9	+0·2				70·9

N.B.—Elevations in italics indicate barometric determinations.
Note.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
† Departure from old normal.

A.

at 12 stations in India, etc., in December, 1918.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.										Wind steadiness.		Wind velocity.		Rainfall.		Station.	Number of sub-division.
														Total number of 10 hrs. and 16 hrs. winds from																	
From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Mean wind direction.	Normal mean wind direction of month.	Average percentage.	Normal percentage.	Mean velocity in miles per diem.	Normal.	Total rainfall for the month.	Heaviest rainfall during the month.		
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	54	55	56
																															III.—Bengal.	
·380	·399	·354	·389	—·049	86	55	41	64	— 7	1·7	1·9	1·8	0	0	10	5	3	0	0	1	6	37	N 34° W	N 13° W	76	63	57	44	0·49	0·37	Calcutta . .	5
																															VI.—Punjab.	
·237	·273	·275	·260	—·011	83	59	41	63	0	2·9	2·9	2·9	+0·1	25	0	1	3	2	0	0	7	24	N 49° W	N 36° W	40	21	21	23	0·24	0·21	Lahore . .	11
																															IX.—Rajputana.	
·188	·191	·188	·189	—·078	61	28	23	42	—11	2·3	3·2	2·7	+0·2	7	11	19	8	4	3	3	8	8	N 8° E	N 27° W	26	27	46	51	0	0	Jaipur . .	18
																															X.—Bombay.	
·437	·555	·620	·562	—·077	61	61	61	64	— 8	2·0	2·1	2·1	+0·2	0	4	12	14	3	0	0	5	24	N 5° E	N 15° E	45	55	149	170	0	0	Bombay . .	25
																															XIV.—Mysore.	
·483	·492	·468	·491	+·025	93	59	50	69	— 1	3·4	5·0	4·2		0	5	14	35	8	0	0	0	0	N 79° E	N 72° E	82	81	142	96	1·59	1·55	Bangalore . .	29
																															XV.—Madras.	
	·770	·788				77	73			6·3	7·6	7·1	+2·8	15	6	4	4	3	1	11	12	6	N 82° W	N 81° W	24	34	62	65	4·19	1·85	Trivandrum .	21
	·671	·646				70	63			5·8	5·9	5·9		6	9	31	7	2	1	3	1	2	N 43° E		61		120		2·78	0·81	Pudukkottai .	
·724	·751	·749	·760	+·031	91	74	73	81	— 1	6·2	6·0	6·1	+0·6	0	22	32	7	1	0	0	0	0	N 35° E	N 24° E	86	81	83	128	6·90	2·05	Madras.	
																															Hill stations, excluding Kashmir and Baluchistan.	
·172	·241	·213	·214	—·054	87	71	39	69	— 6	3·0	2·3	2·7	+0·1	0	2	0	31	0	0	0	29	0	N 45° E	N 72° W	5	43	12	16	0	0	Katmandu.	
·251	·325	·350	·301		74	70	79	74		5·9	7·6	6·7		0	7	12	12	15	1	0	2	13	N 56° E		39		220		4·85	0·95	Kodaikanal.	
																															Extra India.	
·693	·863	·849	·827	—·005	75	83	79	81	— 2	5·7	6·9	6·3	—0·5†	10	7	8	6	4	0	0	6	21	N 15° W	N 44° W	42	55	99	109	10·05	2·37	Seychelles.	
			·850	—0·55				87	— 5			4·4	—1·0										S 78° E	S 88° E			173	187	0·81	0·44	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 214 stations in India, etc., in December, 1918.

(1) Provincial means.

(2) Data of stations.

(1) Provincial means based on the material in Table B (2) except that the statement of rainfall depends on the complete data of about 2,300 stations.

Division.	Pressure departure from normal.	Temperature of air.							Wind.		Hygrometry.				Cloud.		Rainfall.		
		Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Departure of velocity from normal.	Departure of steadiness from normal.	Mean humidity.	Departure from normal.	Mean vapour tension.	Departure from normal.	Mean cloud amount.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.
	"	°	°	°	°	°	°	°					"	"			"	"	"
Burma	—·010	82·9	+0·4	63·5	+0·9	73·2	+0·6	19·4	+0·1	— 4	86	0	·618	+·036	4·0	+1·2	0·48	0·48	0
Assam	+·012	75·9	+0·3	50·7	−0·9	63·3	−0·3	25·2	−0·5	— 1	92	— 2	·417	−·012	4·0	+0·8	0·07	0·40	−0·33
Bengal	+·012	77·5	−0·2	54·0	−1·8	65·8	−1·0	23·4	−0·1	—15	78	— 6	·411	−·050	2·1	+0·6	0·12	0·21	−0·09
Bihar and Orissa	+·020	77·3	+0·4	51·4	−1·0	64·3	−0·3	25·9	0	0	68	— 9	·335	−·051	2·5	+1·0	0·03	0·19	−0·16
United Provinces of Agra and Oudh	+·027	74·1	−0·5	45·9	−1·7	60·0	−1·1	28·2	−0·2	+ 2	66	—11	·259	−·059	1·5	+0·1	0·03	0·32	−0·29
Punjab	+·025	69·7	−1·9	43·2	+0·2	56·5	−0·9	26·5	+0·3	+12	73	0	·243	−·004	2·9	+0·2	0·27	0·39	−0·12
North-West Frontier Province	+·027	65·6	−4·1	40·9	+1·1	53·3	−1·5	24·7	−0·7	— 7	77	+ 7	·230	+·017	2·6	−0·5	0·81	0·55	+0·26
Sind	+·038	76·3	−1·7	51·4	−0·7	63·8	−1·2	24·9	−0·8	+ 4	59	— 1	·266	−·021	1·5	−0·7	0·20	0·09	+0·11
Rajputana	+·037	75·3	−2·5	47·6	−2·3	61·5	−2·4	27·7	−0·5	+11	49	— 8	·199	−·051	2·1	+0·1	0	0·21	−0·21
Bombay	+·013	84·7	−0·2	59·0	+1·1	71·8	+0·5	25·7	−0·7	— 9	57	— 1	·388	+·002	2·2	+0·6	0·11	0·20	— 0·09
Central India	+·019	75·7	−1·4	47·4	−0·8	61·5	−1·1	28·4	−0·6	— 9	61	— 5	·268	−·026	2·4	+0·8	0·16	0·21	−0·05
Central Provinces	+·011	80·0	−0·1	53·8	+1·3	66·9	+0·6	26·2	+0·3	+ 6	60	— 4	·326	−·013	2·8	+0·9	0·40	0·39	+0·01
Hyderabad	+·007	84·6	+0·8	62·1	+3·9	73·3	+2·4	22·6	−0·7	+ 6	65	+ 2	·467	+·039	3·7	+1·8	0·83	0·30	+0·53
Mysore	+·015	81·0	+0·5	61·1	+2·2	71·0	+1·3	19·9	−0·2	—12	75	+ 1	·514	+·023	4·4	+0·5	0·33	0·50	−0·17
Madras	+·009	83·9	−0·2	69·3	+1·5	76·6	+0·7	14·6	+0·4	— 4	80	+ 3	·674	+·032	4·6	+1·0	2·36	2·22	+0·14

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	I.—Burma.																					
2	Victoria Point	147	29·831		29·909	29·896	30th	29·774	5th	78·2	74·4	86·0		74·7		80·3		11·3	90·6	24th	71·7	15th
	Mergui	66	29·940	+·002	29·936	30·020	30th	29·870	5th	75·9	73·2	86·9	−0·1	72·0	+4·7?	79·5	+2·3?	11·9	89·8	11th	64·6	29th
	Tavoy	19	29·980	−·022?	29·930	30·071	30th	29·918	6th	74·6	72·0	89·3	+1·6	65·9	+0·8	77·6	+1·2	23·4	92·0	25th	59·0	29th
	Moulmein	94	29·944	−·015	29·960	30·051	30th	29·895	9th	73·7	70·2	88·5	+1·2	69·3	+2·3	78·9	+1·7	19·2	91·4	14th	60·2	27th
	Rangoon	18	30·012	−·004	29·969	30·106	30th	29·951	9th	71·6	68·1	88·8	+1·7	68·1	+0·8	78·5	+1·3	20·7	92·2	4th	61·2	26th
	Bassein	27	30·018	+·005	29·982	30·119	30th	29·968	5th	74·0	70·2	85·9	+1·6	66·6	+1·2	76·3	+1·4	19·3	89·3	18th	56·9	28th
	Diamond Island	41	29·969	−·017	29·945	30·052	30th	29·902	9th	78·0	72·7	84·7	+1·1	74·0	+1·5	79·3	+1·3	10·7	88·6	5th	70·5	27th & 28th.
	Toungoo	164	29·876	−·006	29·988	29·976	30th	29·809	10th	76·2	65·4	83·2	0	61·1	−0·5	72·2	−0·3	22·1	87·8	16th	50·0	27th
	Kyaukpyu	18	30·014		29·972	30·108	30th	29·924	9th	72·9	69·9	80·1		68·8		74·4		11·3	84·9	11th	58·4	26th & 27th.
	Akyab	20	30·006	−·023	29·967	30·090	30th	29·903	9th	66·5	64·6	80·0	−1·1	62·5	−1·0	71·3	−1·4	17·5	83·7	14th	52·5	26th
3	Minbu	*165*	29·889	−·021	30·002	29·993	30th	29·825	9th	67·7	64·1	81·0	−1·9	63·0	+2·5	72·0	+0·3	18·0	85·5	~~2nd~~ & 17th.	53·0	22nd
—	Yamethin	644	29·392	−·009	30·010	29·479	30th	29·332	9th	65·3	63·1	81·6	−2·2	60·8	+2·8	71·2	+0·3	20·8	88·1	~~19th~~	52·1	22nd
	Mandalay	250	29·829	+·010?	30·036	29·927	30th	29·767	9th	69·5	65·1	84·2	+1·0	61·4	+2·0	72·8	+1·5	22·8	89·8	4th	53·4	28th
	Monywa	*280*	29·801	−·009	30·042	29·895	30th	29·738	9th	65·0	61·9	82·9	+2·6?	61·0	+1·5	71·9	+2·1?	21·9	90·0	3rd	53·7	19th
	Lashio	*2,820*	27·237	−·005	27·183	27·332	30th	27·183	10th	55·9	55·0	72·9	−0·9	52·1	+4·0	62·5	+1·5	20·8	77·5	4th	41·4	27th
	Bhamo	*361*	29·701	−·010	30·058	29·788	30th	29·628	9th	55·3	55·3	76·8	+1·6	49·2	−2·0	63·0	−0·2	27·6	81·6	1st & 2nd	40·2	26th
	Myitkyina	458	29·608	−·012	30·056	29·693	30th	29·522	9th	57·2	55·0	76·2	+1·2	49·5	−2·2	62·9	−0·5	26·7	80·6	4th	40·0	28th
	II.—Assam.																					
4	Dibrugarh	353	29·748	−·002	30·088	29·823	19th	29·654	9th	53·5	52·5	73·3	+1·2	49·5	−0·8	61·9	+0·2	24·8	78·1	4th & 11th	41·6	21st
	Sibsagar	333	29·786	+·001	30·101?	29·874	19th	29·702	9th	52·9	52·3	71·4	+0·1	49·3	−1·2	60·4	−0·5	22·1	75·4	1st & 3rd	42·8	20th & 21st.
	Tezpur	252	29·870	+·025	30·097	29·935	19th	29·763	10th	54·4	53·3	74·9	+0·8	52·2	−0·9	63·6	−0·1	22·7	79·5	3rd	44·8	20th
	Gauhati	196	29·919	+·009	30·083	29·933	19th	29·810	9th	56·4	55·3	74·7	−0·6	50·1	−1·2	62·4	−0·9	24·6	76·8	8th	40·6	18th
	Dhubri	115	29·993	+·015	30·069	30·068	19th	29·889	9th	59·7	56·9	73·2	−0·2	54·3	−0·3	64·2	−0·3	19·9	79·6	2nd	47·3	21st
	Silchar	104	30·008	+·022	30·039	30·088	18th	29·904	9th	60·6	58·8	80·4	+0·7	53·6	−1·2	67·0	−0·3	26·8	86·2	13th	44·4	19th
	Srimangal	66	30·032		30·052	30·096	18th	29·929	9th	55·7	54·4	81·4	+0·4	46·1	−3·5?	63·7	−1·5?	35·3	87·9	7th	38·3	19th
	III.—Bengal.																					
5	Cox's Bazar	36	30·009		29·992	30·080	30th	29·912	9th	65·7	62·7	79·9		59·2		69·5		20·7	84·2	13th	51·3	20th
	Chittagong	87	29·979	+·002	30·015	30·047	30th	29·873	9th	61·3	58·8	78·7	+0·4	55·9	−1·7	67·3	−0·7	22·8	83·3	7th	49·4	20th, 24th & 25th.
	Noakhali	43	30·045	+·021	30·037	30·118	18th	29·952	9th	61·8	58·7	78·7	+0·7	55·1	+0·5?	66·9	+0·7	23·6	83·8	14th	48·3	25th
	Barisal	12	30·035	+·008	30·025	30·127	18th	29·963	9th	61·5	57·7	76·6	−1·2	54·7	−1·1	65·6	−1·3	21·9	80·8	3rd	46·4	26th
	Narayanganj	26	30·052	+·011	30·038	30·134	19th	29·954	9th	59·7	56·3	76·8	−1·3	55·1	−2·2	66·0	−1·7	21·7	81·9	3rd & 14th.	48·0	19th
	Mymensingh	62	30·053	+·016	30·051	30·119	18th	29·912	9th	61·0	57·7	77·1	+0·3	53·6	−1·4	65·3	−0·5	23·5	81·4	7th	46·2	19th & 28th.
	Bogra	75	30·024	+·010	30·054	30·097	18th	29·916	9th	57·3	54·6	76·0	−0·3	52·1	−1·7	64·1	−1·1	23·9	80·7	1st	44·3	26th
	Dinajpur	123	29·967	+·003	30·052	30·098	19th	29·876	9th	54·9	52·2	76·3	−0·6	49·1	−1·8	62·7	−1·2	27·2	81·3	2nd	41·0	18th
	Jalpaiguri	283	29·822	+·017	30·081	29·902	19th	29·751	9th	54·6	52·7	76·3	+0·6	49·7	−2·9	63·0	−1·1	26·6	80·6	2nd	42·1	18th
	Saugor Island	10	30·102	+·024	30·058	30·179	19th	30·018	10th	63·0	60·7	77·2	+0·6	56·6	−2·4	66·9	−0·9	20·6	81·2	3rd	50·4	28th
	Midnapore	149	29·918	+·005	30·053	30·018	19th	29·847	9th	61·7	53·2	80·3	0	54·4	−1·1	67·2	−0·5	25·6	83·3	3rd	48·5	20th, 21st & 26th.
	Calcutta	21	30·036	+·011	30·055	30·171	19th	29·994	9th & 10th.	58·9	55·0	77·0	0	55·2	−0·8	66·1	−0·4	21·8	81·2	1st & 14th.	49·7	21st & 26th

N.B.—Elevations in italics indicate barometrical determinations.

B.

at 214 stations in India, etc., in December, 1918.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal	Total rainfall from 1st to 31st December 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															I.—Burma.
1	4	21	1	1	1	0	0	2	N 39° E		4·8			76		83		·799		5·1		3		1·24	2·16	− 0·92	1·24	2·16	− 0·92	0·64	Victoria Point.
31	0	0	0	0	0	0	0	0	Calm	N 14° E	?	1·3		(a)		87	+102	·788	+·101	3·1	0	4	+2·9	2·45	0·41	+ 2·04	2·45	0·41	+ 2·04	1·31	Mergui.
24	3	4	0	0	0	0	0	0	N 26° E	N 30° E	1·4	0·9	+0·5	23	+12	87	+ 4	·748	+·090	3·6	+2·5	3	+2·7	1·16	0·24	+ 0·92	1·16	0·24	+ 0·92	0·84	Tavoy.
5	0	9	13	4	0	0	0	0	N 81° E	N 50° E	5·0	2·0	+3·0	72	+15	83	0	·694	+·044	2·1	+0·2	1	+0·8	0·45	0·21	+ 0·24	0·45	0·21	+ 0·24	0·45	Moulmein
0	17	11	1	0	0	0	0	2	N 16° E	N 44° E	3·4	3·3	+0·1	89	+17	83	0	·644	+·020	4·5	+2·1	2	+1·6	0·41	0·36	+ 0·05	0·41	0·36	+ 0·05	0·24	Rangoon.
19	1	9	1	0	0	0	0	1	N 39° E	N 40° E	3·1	2·6	+0·5	33	−32	91	+ 5?	·728	+·116?	4·0	+1·7	1	+0·5	0·22	0·39	− 0·17	0·22	0·39	− 0·17	0·13	Bassein.
0	8	18	5	0	0	0	0	0	N 41° E	N 42° E	6·8	6·5	+0·3	89	+ 3	76	+ 2	·734	+ ·057	3·9	+0·9	3	+2·2	0·76	0·84	− 0·08	0·76	0·84	− 0·08	0·49	Diamond Island.
3	15	11	0	0	0	0	0	2	N 15° E	N 10° W	2·1	1·5	+0·6	82	+10	91	+ 2	·616	+·041	4·5	+1·8	1	+0·6	0·73	0·42	+ 0·31	0·73	0·42	+ 0·31	0·63	Toungoo.
28	1	2	0	0	0	0	0	0	N 31° E		0·2			7		85		·695		5·9		1		0·23	0·29	− 0·06	0·23	0·29	− 0·06	0·18	Kyaukpyu.
19	8	3	0	0	0	0	0	1	N 7° E	N 18° E	2·0	1·8	+0·2	37	−45	90	0	·598	+·020	4·1	+2·0	2	+1·2	3·88	0·70	+ 3·18	3·88	0·70	+ 3·18	2·17	Akyab.
1	1	0	0	0	1	1	3	24	N 52° W	N 50° W	1·7	5·0	−3·3	82	+ 8	81	+ 3	·555	+·052	3·0	+0·8	2	+1·4	0·66	0·50	+ 0·16	0·66	0·50	+ 0·16	0·50	Minbu.
																88	+ 3	·555	+·044	2·6	+0·5	1	+0·2	0·19	0·49	− 0·30	0·19	0·49	− 0·30	0·19	Yamethin.
31	0	0	0	0	0	0	0	0	Calm	N 4° W	1·0	1·4	−0·4	(a)		78	− 8	·563	+·03	4·9	+2·8	1	+0·3	0·41	0·36	+ 0·05	0·41	0·36	+ 0·05	0·34	Mandalay.
1	20	1	0	0	0	0	0	9	N 12° W		1·6			92		83	− 6	·517	−·004	4·5	+1·4	2	+1·0	0·45	0·42	+ 0·03	0·45	0·42	+ 0·03	0·31	Monywa.
22	0	0	1	1	0	7	0	0	S 30° W		1·2			23		94	0	·427	+·041	1·9	−3·8	4	−2·8	1·25	0·95	+ 0·42	1·35	0·93	+ 0·42	0·65	Lashio.
29	1	1	0	0	0	0	0	0	N 24° E	N 1° E	0·6	1·2	−0·6	7	−22	96	+ 2	·434	+·006	7·3	+3·9	0	−1·1	0·03	0·61	− 0·58	0·03	0·61	− 0·58	0·02	Bhamo.
27	1	2	1	0	0	0	0	0	N 45° E		2·1			10		86	− 3	·407	−·038	3·2	−1·1?	0	−1·6	0	0·47	− 0·47	0	0·47	− 0·47	0	Myitkyina.
																															II.—Assam.
29	0	0	2	0	0	0	0	0	E		0·1			6		93	− 2	·384	−·009	5·9	+3·0	0	−1·0	0	0·44	− 0·44	0	0·44	− 0·44	0	Dibrugarh.
23	1	3	0	0	1	1	0	2	N	N 63° E	0·3	1·2	−0·9	9	−20	96	− 3	·392	−·026	8·0	+2·5	1	−0·6	0·19	0·53	− 0·34	0·19	0·53	− 0·34	0·15	Sibsagar.
13	0	10	8	0	0	0	0	0	N 65° E		1·0			53		93	0	·395	−·013	0·7	−1·4	0	−0·5	0	0·29	− 0·29	0	0·29	− 0·29	0	Tezpur.
31	0	0	0	0	0	0	0	0	Calm		0·7			(a)		93	− 4	·427	−·011	6·5	−0·5	0	−0·3	0	0·21	− 0·21	0	0·21	− 0·21	0	Gauhati.
1	1	14	14	1	0	0	0	0	N 67° E	N 54° E	3·8	3·4	+0·4	89	+17	84	− 6	·430	−·017	1·4	+0·2	0	−0·1	0	0·08	− 0·08	0	0·08	− 0·08	0	Dhubri.
31	0	0	0	0	0	0	0	0	Calm	S 81° E	0·1	1·1	−1·0	(a)		90	0	·477	+·013	4·3	+1·2	0	−0·7	0	0·43	− 0·43	0	0·43	− 0·43	0	Silchar.
																92	+ 2	·414	−·019	1·1		1	0	0·18	0·31	− 0·13	0·18	0·31	− 0·13	0·18	Srimangal.
																															III.—Bengal.
31	2	7	1	0	0	0	0	0	N 41° E		1·3			30		84		·537		2·6		0		0	1·06	− 1·06	0	1·06	− 1·06	0	Cox's Bazar.
13	2	6	0	0	0	0	0	0	N 34° E	N 32° E	2·0	2·0	0	22	−51	84	− 5	·465	−·042	1·6	−0·5	0	−0·9	0	0·80	− 0·80	0	0·80	− 0·80	0	Chittagong.
9	12	9	0	0	0	0	0	1	N 18° E		1·2			65		82	− 6	·456	−·044	1·5	+0·1	1	+0·7	0·52	0·31	+ 0·21	0·52	0·31	+ 0·21	0·52	Noakhali.
20	7	2	0	0	0	0	0	2	N	N 11° E	0·6	1·2	−0·6	32	+14	78	− 8	·427	−·082	5·0	+3·8	0	−0·7	0·07	0·44	− 0·37	0·07	0·44	− 0·37	0·07	Barisal.
21	3	0	0	0	0	0	1	6	N 36° W	N 5° W	0·3	1·5	−1·2	30	−17	80	− 7	·412	−·070	1·8	−0·4	1	+0·5	0·15	0·19	− 0·04	0·15	0·19	− 0·04	0·15	Narayanganj.
29	0	0	0	0	0	0	1	1	N 66° W	N 36° E	0·3	0·7	−0·4	7	−25	82	− 8	·437	−·031	2·0	+0·5	0	−0·3	0·05	0·08	− 0·03	0·05	0·08	− 0·03	0·05	Mymensingh.
21	6	0	0	0	0	0	1	3	N 21° W	N 1° W	1·3	1·0	+0·3	27	−18	83	0	·396	−·026	3·1	+2·6	0	−0·2	0·01	0·06	− 0·05	0·01	0·06	− 0·05	0·01	Bogra.
10	4	4	1	0	0	0	6	6	N 30° W	N 12° W	1·4	1·4	0	43	−11	83	− 4	·359	−·049	1·0	−0·1	0	−0·1	0	0·07	− 0·07	0	0·07	−0·07	0	Dinajpur.
27	0	1	0	0	0	0	0	3	N 27° W	N 12° E	0·5			10	−44	88	+ 1	·375	−·044	0·3	−0·8	0	−0·3	0	0·13	− 0·13	0	0·13	− 0·13	0	Jalpaiguri.
0	19	9	1	0	0	0	0	2	N 12° E	N 15° E	5·7	4·3	+1·4	92	+10	87	0	·506	−·010	3·3	+0·8	0	−0·6	0·06	0·30	− 0·24	0·06	0·30	− 0·24	0·04	Sangor Island.
25	4	2	0	0	0	0	0	0	N 11° E		1·7			16		53	−15	·296	−·087	1·9	+0·7	1	+0·7	0·14	0·29	− 0·15	0·14	0·29	− 0·15	0·10	Midnapore.
1	8	0	0	0	0	2	3	17	N 41° W	N 4° W	2·4	1·8	+0·6	79	+29	76	− 5	·382	−·058	2·1	+0·6	2	+1·6	0·49	0·22	+ 0·27	0·49	0·22	+ 0·27	0·37	Calcutta.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	III.—Bengal—*concld.*																					
	Jessore	30	30·074	+·017	30·053	30·157	18th	29·969	9th	60·3	55·8	76·0	—1·5	52·5	—2·2	64·3	—1·9	23·5	80·5	1st	44·4	26th
	Burdwan	99	30·003	+·03	30·054	30·082	19th	29·908	9th	59·7	53·8	79·1	+0·6	54·0	—2·1	66·6	—0·7	25·1	82·6	3rd	48.0	26th & 27th.
	Berhampore	67	30·052	+·023	30·072	30·132	19th	29·950	9th	58·9	54·9	76·3	—0·3	53·5	—1·9	64·9	—1·1	22·8	79·6	3rd	46·4	26th
	IV.—Bihar and Orissa.																					
6	Balasore	50	30·061	+·009	30·059	30·140	19th	29·969	9th	59·9	54·0	81·1	+1·2	53·9	—1·8	67·5	—0·3	27·2	85·2	3rd	48 4	20th
	Hukitala (False Point)	29	30·085	+·022	30·055	30·152	25th	29·987	10th													
	Cuttack	80	30·039	+·023	30·061	30·109	25th	29·953	10th	63·3	59·2	80·9	—0·7P	59·4	+0·5	70·2	—0·1P	21·5	85·3	3rd	54·2	9th & 10th.
	Puri	24	30·089	+·020	30·054	30·156	25th	30·004	9th	65·6	61·2	80·8	+0·3	62·9	+0·8	71·9	+0·5	17·9	84·0	3rd	58·8	9th
	Angul	455	29·638	+·013	30·061	29·695	20th	29·561	9th	64·2	58·1	81·5	+2·4	56 3	+1·7	68·9	+2·1	25·2	83·8	6th, 17th & 27th.	50·2	11th
	Sambalpur	486	29·617	+·002	30·078	29·676	25th	29·545	11th	61·3	55·9	80·6	+0·8	54·9	+0·8	67·7	+0·8	25·7	84·1	27th	47·5	9th
7	Chaibasa	*733*	29·351	+·011	30·083	29·421	19th	29·275	10th	55·0	51·3	78·8	+1·3	50·9	—0·1	64·8	+0·6	27·9	83·0	17th	45·8	8th, 9th & 20th.
	Ranchi	2,128	27·928	+·027	30·083	27·993	3rd	27·834	9th	56·7	48·7	72·5	—0·8	50·3	—0·9	61·4	—0·9	22·2	76·5	13th	44·4	19th
	Purulia	*816*	28·278	+·027	30·090	29·344	18th	29·189	9th	59·9	51·0	79·5	+1·4	50·3	—3·0	64·9	—0·8	29·2	87·7	3rd	45·1	19th & 21st.
	Daltonganj	*730*	29·383*	+·017	30·119*	29·447	18th	29·316	9th	51·7†	48·2†	76·8†	+0·1	44·0†	—1·9	60·4†	—0·9	32·8	80·1	15th	38·0	19th
8	Purnea	124	29·988	+·010	30·077	30·083	19th	29·889	9th	52·2	50·1	75·2	—0·6	47·2	—2·2	61·2	—1·4	28·0	79·5	2nd	39·2	19th
	Monghyr	155	29·960		30·077	30·046	19th	29·859	9th	57·8	51·6	74·6		51·3		62·9		23·3	78·8	3rd	44·9	19th
	Darbhanga	165	29·964	+·029	30·095	30·046	19th	29·844	10th	57·7	53·5	74·2	—0·7	47·5	—5·2P	60·8	—2·9P	26·7	78·7	7th	40·0	18th
	Pusa	188	29·921		30·078	30·014	19th	29·829	9th	52·6	50·6	75·3		46·6		60·9		28·7	79·4	3rd	40·2	19th
	Patna	183	29·956	+·032	30·101	30·096	1st	29·853	9th	57·8	51·3	73·8	—0·5	49·8	—2·0	61·8	—1·3	24·0	77·4	7th & 14th.	43·7	18th
	Buxar	239	29·888	+·022	30·099	29·959	19th	29·785	9th	54·9	49·5	75·8	—0·3	48·5	—2·4	62·1	—1·3	27·3	81·3	15th	42·9	20th
	Gaya	372	29·760	+·032	30·111	29·846	19th	29·667	9th	55·4‡	49·1‡	75·5‡	—0·8‡	50·1‡	—1·2‡	62·8‡	—1·0	25·4	79·6	2nd	44·1	19th
	Naya Dumka	489	29·616	+·025	30·086	29·694	19th	29·514	9th	59·4	52·2	77·0	+0·9	50·1	—1·4	63·6	—0·3	26·9	80·8	2nd	43·0	19th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·847	+·019	30 081	29·912	19th	29·745	9th	52·1	48·9	73·9	—0 3	47·1	—2·9	60·5	—1·6	26·8	77·6	15th	41·6	27th
	Benares	267	29·857	+·022	30·096	29·931	19th	29·773	9th	54·7	50·2	75·0	—0·1	45·7	—2·1	60·4	—1·1	29·3	81·0	15th	38·8	19th
	Allahabad	309	29·841	+·046	30·129	29·897	19th	29·760	9th	54·3	47·7	75·6	—0·2	46·3	—1·5	61·0	—0·9	29·3	81·0	15th	40·5	19th
	Cawnpore	416	29·709	+·026	30·115	29·772	19th	29·627	11th	51·4	46·5	74·8	+0·3	47·3	—1·2	61·1	—0·5	27·5	79·8	14th	42·1	19th & 25th.
	Lucknow	368	29·762	+·037	30·107	29·826	19th	29·683	9th													
	Bahraich	407	29·690	+·022	30·089	29·748	20th	29·612	9th	51 0	47·2	74·8	—0·4	46·1	—1·6	60·5	—1·0	28·7	78·7	14th	38·6	18th
10	Jhansi	824	29·295	+·016	30·130	29·357	17th	29·175	13th	54·4	48·7	75·4	—2·9	47·5	—4·9P	61·5	—3·9P	27·9	82·6	31st	41·3	18th
	Agra	556	29·573	+·031	30·127	29·635	15th & 25th.	29·451	13th	55·9	47·5	73·6	—1·9	47·6	—1·5	60·6	—1·7	26·0	79·7	30th	41·3	17th
	Mainpuri	516	29·592	+·021	30·107	29·650	17th	29·496	9th	50·8	44·4	74·9	0	45·4	—1·7	60·1	—0·9	29·5	80·4	14th	40·4	17th
	Bareilly	568	29·523	+·027	30·100	29·601	19th	29·439	9th	51·2	46·8	72·6	—0·1	44·8	—1·2	58·7	—0·7	27·8	77·1	14th	38·0	19th
	Roorkee	899	29·182	+·027	30·124	29·235	20th	29·103	11th	46·5	43·2	70·4	—1·5	41·3	—2·0	55·8	—1·7	29·1	77·2	30th	35·7	18th
	VI.—Punjab.																					
11	Delhi	718	29·378	+·019	30·115	29 440	7th	29·275	13th	51·8	44·5	71·1	—2·2	48·6	—0·4	59·9	—1·3	22·5	77·7	30th	40·1	17th
	Hissar	725	29·403	+·042	30·156	29·470	7th	29·286	11th	46·8	42·8	73·0	—1·2	41·3	—1·7	57·2	—1·5	31·7	79·2	30th	32·9	17th

N.B.—Elevations in italics indicate barometrical determinations.

* Mean of 30 days.
† ,, ,, 29 ,,
‡ ,, ,, 27 ,,

B—*continued.*

at 214 stations in India, etc., in December, 1918—*continued.*

WIND DIRECTION.											WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.								STATION.
Number of winds from																													
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
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	54	55
																														III.—Bengal—*concld.*	
29	1	0	0	0	0	0	0	1	N 24° W	N 11° W	0·6	1·1	−0·5	7	−32	74	−10	·392	−·058	1·5	+0·2	1	+ 0·5	0·28	0·22	+ 0·06	0·28	0·22	+ 0·06	0·23	Jessore.
20	3	0	0	0	0	0	0	8	N 33° W	N 22° W	1·0	1·2	−0·2	37	− 2	66	− 7	·342	−·048	1·8	+0·2	0	− 0·3	0·03	0·17	− 0·14	0·03	0·17	− 0·14	0·03	Burdwan.
23	3	0	0	0	1	1	1	2	N 49° W	N 41° W	0·6	1·0	−0·4	13	−27	76	− 8	·380	−·047	2·5	+0·8	0	− 0·3	0	0·14	− 0·14	0	0·14	− 0·14	0	Berhampore.
																														IV.—Bihar and Orissa.	
7	12	1	0	0	0	1	1	9	N 22° W	N 25° W	1·1	1·5	−0·4	66	− 6	66	−12	·344	−·078	2·6	+1·2	0	− 0·5	0·02	0·24	− 0·22	0·02	0·24	− 0·22	0·01	Balasore.
2	19	5	0	0	0	0	0	5	N		4·6			84	− 2					4·4	+1·7	0	− 0·9	0·06	0·67	− 0·61	0·06	0·67	− 0·61	0·03	Hukitala (False Point).
29	0	1	1	0	0	0	0	0	N 66° E	N 43° W	1·0	0·9	+0·1	7	− 7	77	0	·450	−·004	3·4	+1·1	0	− 0·6	0·03	0·32	− 0·29	0·03	0·32	− 0·29	0 03	Cuttack.
0	16	15	0	0	0	0	0	0	N 22° E		6·3			97		76	− 1	·483	−·026	3·3	+1·9	0	− 0·6	0·05	0·35	− 0·30	0·05	0·35	− 0·30	0·05	Puri.
14	0	1	0	0	0	0	3	13	N 48° W		2·4			48		67	−12	·409	−·018	3·3	+1·7	0	− 1·2	0·06	0·31	− 0·25	0·06	0·31	− 0·25	0·06	Angul.
0	16	3	0	0	0	0	0	12	N 14° W	N 16° E	2·7	1·8	+0·9	92	+11	69	− 5	·377	−·029	3·8	+2·0	1	+ 0·6	0·21	0·24	− 0·03	0·21	0 24	− 0·03	0·18	Sambalpur.
18	0	0	0	0	1	9	3	0	S 52° W	S 68° W	1·2	0·7	+0·5	37	− 3	75	−11	·332	−·046	3·3	+1·8	0	− 0·6	0	0·21	− 0·21	0	0·21	− 0·21	0	Chaibasa.
13	1	1	0	0	0	0	5	11	N 52° W	N 68° W	2·6	3·1	−0·5	49	+10	54	−10	·251	−·058	2·2	+0·6	0	− 0·6	0·09	0·21	− 0·12	0·09	0·21	− 0·12	0·04	Ranchi.
2	0	0	0	1	0	4	19	5	W		1·4			81		50	−19	·261	−·084	5·3	+4·0	0	− 0·6	0·02	0·14	− 0·12	0·02	0·14	− 0·12	0·02	Purulia.
30	0	0	0	1	0	0	0	0	S 45° E		0·9			3		76†	− 5	·293†	−·052	0·5	−0·7	0	− 0·6	0	0·23	− 0·23	0	0·23	− 0·23	0	Daltonganj.
5	1	0	0	1	2	8	13	1	S 70° W	S 88° W	1·5	1·1	+0·4	66	+47	86	− 5	·338	−·041	3·5	+2·7	0	− 0·2	0	0·14	− 0·14	0	0·14	− 0·14	0	Purnea.
8	0	0	0	0	1	16	6	0	S 55° W		2·7			65		63		·303		1·0		0		0	0·46	− 0·46	0	0·46	− 0·46	0	Monghyr.
27	0	0	0	0	1	1	2	0	S 57° W	N 86° W	0·9	1·5	−0·6	10	−20	74	−13	·356	−·048	1·6	+0·8	0	− 0·1	0	0·09	− 0·09	0	0·09	− 0·09	0	Darbhanga.
14	0	0	0	1	0	8	6	1	S 63° W		1·6			42		86		·343		0·6		0		0	0·13	− 0·13	0	0·13	− 0·13	0	Pusa.
19	0	0	0	0	0	7	5	0	S 63° W	S 78° W	1·5	1·4	+0·1	37	−17	61	−14	·297	−·074	1·1	0	0	− 0·3	0	0·10	− 0·10	0	0·10	− 0·10	0	Patna.
10	0	1	1	0	0	12	7	0	S 60° W		1·5			52		65	− 6	·285	−·063	2·2	+0·8	0	− 0·5	0	0·21	− 0·21	0	0·21	− 0·21	0	Buxar.
24	0	0	0	1	2	3	1	0	S 27° W	S 10° W	1·0	1·8	−0·8	20	−12	60‡	−12	·269‡	−·074	1·2	−0·4	0	− 0·2	0	0·15	− 0·15	0	0·15	− 0·15	0	Gaya.
29	1	0	0	0	0	0	0	1	N 24° W		1·3			7		59	−14	·299	−·066	0·8	−0·3	0	− 0·3	0	0·12	− 0·12	0	0·12	− 0·12	0	Naya Dumka.
																														V.—United Provinces of Agra and Oudh.	
10	1	0	7	0	0	1	11	1	N 80° W	N 69° W	1·5	0·8	+0·7	17	−15	78	− 3	·206	−·062	0·3	−0·8	0	− 0·4	0	0·15	− 0·15	0	0·15	− 0·15	0	Gorakhpur.
11	0	1	0	0	2	14	3	0	S 47° W	S 56° W	1·2	1·7	−0·5	53	+24	71	−10	·304	−·049	1·3	+0·1	1	+ 0·5	0·20	0·23	− 0·03	0·20	0·23	− 0·03	0·20	Benares.
20	0	0	0	0	0	1	8	2	N 86° W	N 76° W	0·9	2·2	−1·3	33	+ 4	58	−19	·247	−·093	1·8	+0·3	0	− 0·5	0	0·25	− 0·25	0	0·25	− 0·25	0	Allahabad.
10	4	0	1	1	0	1	10	4	N 65° W	N 82° W	1·6	1·8	− 0·2	43	+14	66	−19	·254	−·060	0·6	−0·6	0	− 0·7	0	0·19	− 0·19	0	0·19	− 0·19	0	Cawnpore.
24	0	0	0	0	0	0	7	0	W	N 76° W	1·2	1·2	0	23	− 6					0·8	−0·6	0	− 0·8	0	0 31	− 0·31	0	0·31	− 0·31	0	Lucknow.
25	3	0	1	0	0	0	2	0	N 18° W	N 51° W	1·3	1·1	+0·2	10	−14	73	− 9	·274	−·071	2·0	+0·9	1	+ 0·3	0·28	0·30	− 0·02	0·28	0·30	− 0·02	0·28	Bahraich.
19	1	0	0	1	1	4	2	3	S 78° W	N 79° W	1·3	1·5	−0·2	20	+ 2	64	+ 5	·271	−·035	1·1	0	0	− 0·7	0·06	0·25	− 0·19	0·06	0·25	− 0·19	0·06	Jhansi.
12	3	1	0	0	1	10	3	1	S 70° W	N 61° W	1·8	2·1	−0·3	37	+ 1	49	−18	·217	−·061	1·9	+0·5	0	− 0·8	0	0·29	− 0·29	0	0·29	− 0·29	0	Agra.
17	2	1	0	1	0	1	5	4	N 69° W	N 66° W	0·9	0·8	+0·1	27	+ 3	57	−16	·214	−·074	2·1	+0·2	0	− 1·1	0	0·38	− 0·38	0	0·38	− 0 38	0	Mainpuri.
27	0	0	0	0	0	0	4	0	W	N 44° W	0·1	1·2	−1·1	13	− 1	69	−12	·265	−·042	2·3	+0·8	1	0	0·10	0·33	− 0·23	0·10	0·33	− 0·23	0·10	Bareilly.
26	0	1	0	0	0	0	0	4	N 32° W	N 39° W	1·7	1·0	+0·7	13	+ 6	75	− 9	·237	−·040	2·1	0	0	− 1·3	0·02	0·57	− 0·55	0·02	0·57	− 0·55	0·02	Roorkee.
																														VI.—Punjab.	
8	2	0	0	0	0	0	14	7	N 70° W	N 87° W	1·6	1·8	−0·2	66	+22	51	−12	·199	−·054	0·8	−1·4	0	− 1·1	0	0·43	− 0·43	0	0·43	− 0·43	0	Delhi.
4	1	1	2	2	3	7	9	2	S 61° W	N 84° W	2·7	2·0	+0·7	43	+36	70	− 1	·224	−·020	2·6	+0·2	0	− 0·8	0·02	0·30	− 0·28	0·02	0·30	− 0·28	0·02	Hissar.

Table

(2) Abstract of observations taken at 8 hrs

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	VI.—Punjab—*concld.*																					
	Patiala	*818*	29·257	+·008	30·107	29·331	1st	29·075	13th	48·7	44·3	71·2	0	44·9	+0·7	58·0	+0·3	26·3	77·4	28th	39·0	18th
	Ambala	892	29·187	+·023	30·120	29·256	1st	29·087	13th	48·3	43·8	72·5	+0·4	43·2	−0·3	57·8	+0·1	29·3	80·7	13th	38·1	10th & 18th.
	Ludhiana	812	29·266	+·013	30·115	29·349	7th	29·134	13th	47·6	44·1	69·7	−0·7	44·6	+0·2	57·1	−0·3	25·1	76·3	29th	39·6	18th
	Lahore	702	29·396	+·022	30·133	29·476	7th	29·251	13th	45·3	43·3	69·6	−3·2	42·5	+1·6	56·0	−0·8	27·1	77·8	30th	35·3	24th
	Sialkot	830	29·270	+·031	30·149	29·339	7th	29·144	13th	48·9	46·2	67·0	−2·6	42·2	−0·5	54·6	−1·5	21·8	76·7	1st	35·5	17th
	Rawalpindi	1,674	28·421	+·037	30·194	28·502	7th	28·312	13th	45·1	42·6	62·7	−4·4	38·6	+1·2	50·7	−1·6	24·1	72·3	1st	32·4	23rd
12	Khushab	612	29·516	+·028	30·153	29·601	15th	29·396	10th & 11th.	48·0	44·2	69·2	−2·9	41·8	−0·3	55·5	−1·6	27·4	78·6	30th	32·2	23rd & 24th.
	Lyallpur	605	29·508		30·135	29·591	7th	29·385	13th	47·3	44·6	68·4		42·1		55·3		26·3	76·0	1st	36·4	17th
	Montgomery	558	29·560	+·020	30·135	29·642	15th	29·440	11th	48·3	44·3	70·8	−1·7	43·2	+0·6	57·0	−0·5	27·6	78·9	30th	36·1	18th
	Multan	426	29·724	+·037	30·149	29·830	7th	29·612	13th	50·7	46·1	71·4	−2·1	45·7	+0·7	58·6	−0·7	25·7	79·4	30th	38·8	23rd
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	29·014	+·026	30·205	29·094	15th	28·886	13th	42·8	40·7*	62·8	−4·2	39·2	0	51·0	−2·1	23·6	72·0	30th	30·3	23rd
	Dera Ismail Khan	590	29·558	+·029	30·173	29·656	7th	29·457	13th	46·0	42·8	68·4	−3·9	42·6	+2·1	56·5	−0·9	25·8	79·2	30th	34·1	23rd
	VIII.—Sind.																					
16	Jacobabad	186	29·979	+·041	30·140	30·076	15th	29·842	10th	50·5	44·2	73·5	−3·2	44·5	+0·2	59·0	−1·5	29·0	81·9	1st	37·8	16th
	Hyderabad	96	30·062	+·037	30·115	30·159	15th	29·938	10th	55·2	48·9	77·2	−1·8	50·7	−1·6	63·9	−1·7	26·5	82·0	5 days	42·0	14th
	Karachi	13	30·115	+·035	30·109	30·239	15th	30·029	10th	62·3	54·7	78·1	−0·1	59·0	−0·6	68·5	−0·3	19·1	84·5	1st	52·9	14th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·354	+·037	30·152	29·439	7th	29·198	12th	50·9	44·1	74·1	−1·0	45·7	−4·7?	59·9	−2·9?	28·4	79·0	30th	37·5	14th
	Jodhpur	780	29·339	+·040	30·127	29·416	7th	29·197	11th	56·2	45·5	78·1	−1·6	51·1	−1·6	64·6	−1·6	27·0	86·8	31st	42·5	17th
18	Jaipur	1,431	28·680	+·035	30·157	28·746	7th	28·564	11th	53·2	44·7	74·9	−2·4	46·1	−3·0	60·5	−2·7	28·8	80·2	31st	38·9	18th
	Ajmer	1,611	28·480	+·013?	30·162	28·562	7th	28·330	11th	46·8	41·6	72·8	−3·4	44·7	−1·8	58·8	−2·6	28·1	80·8	31st	36·9	17th
	Kotah	832	29·287	+·034	30·122	29·361	7th	29·179	12th	58·9	49·7	76·6	−2·6	50·5	−2·8	63·5	−2·7	26·1	83·6	31	45·8	19th
	X.—Bombay.																					
19	Deesa	466	29·640	+·032	30·087	29·719	18th	29·534	11th	58·9	50·1	83·9	−1·8	51·7	−0·9	67·8	−1·3	32·2	91·7	31st	42·8	14th
	Bhuj	334	29·778	+·034	30·080	29·860	17th	29·692	11th	62·5	53·8	79·9	−2·1	50·6	−5·4?	65·3	−3·7?	29·3	86·4	29th	41·9	17th
	Jamnagar	61	30·057	+·031	30·066	30·133	17th	29·951	11th	62·4	53·8	80·3	−1·7	53·1	−2·2	66·6	−1·9	27·2	84·3	29th	46·2	15th
	Dwarka	37	30·085	+·030	30·058	30·158	16th	29·999	30th	67·6	59·5	80·2	−0·7	60·4	−0·4	70·3	−0·5	19·8	86·3	29th	51·3	25th
	Rajkot	429	29·646	+·007	30·046	29·708	17th	29·566	11th	61·2	48·7	83·7	−1·5	53·7	+0·8	68·7	−0·3	30·0	93·0	31st	47·8	16th
	Veraval	*18*	30·056	+·014	30·017	30·122	21st	29·998	30th	67·5	55·9	84·7	+0·5	62·3	+0·1	73·5	+0·3	22·4	89·1	1st	57·0	15th
	Bhavnagar Para	55	30·037	+·016	30·040	30·112	17th	29·962	10th	61·6	52·8	84·8	−0·6	53·7	−2·6?	69·2	−1·6?	31·1	92·2	30h	44·2	14th
	Surat	39	30·037	+·012	30·020	30·102	21s	29·968	10th	66·2	56·5	87·5	−0·2	58·9	+0·6	73·2	+0·2	28·6	92·6	29th & 30th.	53·2	14th
	Ahmadabad	163	29·949	+·032	30·068	30·027	17th	29·862	11th	66·0	53·2	85·9	−0·5	58·7	−0·8	72·4	−0·7	27·2	91·6	31st	50·1	15th
25	Bombay	37	30·006	−·001	29·985	30·070	25th	29·959	10th	71·8	65·2	84·5	−0·2	68·9	−1·1	76·7	−0·7	15·6	88·1	7th	64·7	17th
	Ratnagiri	207	29·843	+·001	29·982	29·883	25th	29·765	13th	77·7	67·2	88·6	−0·7	70·3	+3·0	79·4	+1·1	18·3	95·1	29t	65·1	11th
	Marmagao	*60*	29·968	+·005	29·964	30·029	25th	29·902	12th	74·0	70·2	83·4	−2·4?						85·8	3rd		
	Karwar	44	29·989	+·018	29·968	30·051	25th	29·906	12th	70·4	67·9	88·3	+0·7	68·2	+1·3	78·2	+1·3	20·1	92·1	31st	61·0	11th

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 30 days.

B—*continued.*

at 214 stations in India, etc., in December, 1918—*continued.*

Wind direction. Number of winds from Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st Dec. 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
23	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	54	55
																															VI.—Punjab—*concld.*
6	2	5	1	1	0	0	4	12	N 28° W		3·4			48		70	− 8	·239	−·035	3·1	+0·7	0	−1·3	0	0·34	−0·34	0	0·34	−0·34	0	Patiala.
12	9	0	2	0	0	0	1	7	N 16° W	N 44° W	3·0	1·1	+1·9	49	+29	68	−14	·229	−·042	2·9	+0·5	0	−1·6	0	0·59	−0·59	0	0·59	−0·59	0	Ambala.
30	0	1	0	0	0	0	0	0	N 45° E	N 47° W	0·9	0·9	0	3	−14	74	− 1	·243	−·015	1·8	−1·1	0	−1·4	0·05	0·69	−0·64	0·05	0·69	−0·64	0·04	Ludhiana.
25	1	0	0	0	0	0	1	4	N 45° W	N 58° W	0·8	0·9	−0·1	20	+13	84	+ 2	·258	+·003	2·6	0	1	+0·1	0·21	0·38	−0·14	0·24	0·38	−0·14	0·21	Lahore.
14	3	4	3	1	1	0	2	3	N 21° E	N 63° E	0·9	0·7	+0·2	20	+13	82	+ 7	·281	+·029	2·7	+0·3	1	−0·1	0·50	0·65	−0·15	0·50	0·65	−0·15	0·43	Sialkot.
17	1	2	0	0	0	3	6	2	N 78° W	N 41° W	1·4	0·9	+0·5	27	+13	81	+ 7	·244	+·037	5·1	+1·5	4	+2·3	1·92	1·00	+0·92	1·92	1·00	+0·92	1·16	Rawalpindi.
20	1	3	2	3	1	1	0	0	S 83° E	N 27° E	1·7	1·5	+0·2	17	+ 3	72	+12	·243	+·045	4·3	+1·8	1	+0·4	0·74	0·41	+0·33	0·74	0·41	+0·33	0·65	Khushab.
10	0	3	3	2	1	6	3	3	S 49° W		1·5			10		80		·262		4·2		2	+1·5	1·01	0·19	+0·82	1·01	0·19	+0·82	0·85	Lyallpur
14	2	3	2	2	1	1	3	3	N 6° W	N 68° E	2·3	1·9	+0·4	10	− 8	71	+ 7	·240	+·013	2·8	+0·3	1	−0·1	0·23	0·33	−0·10	0·23	0·33	−0·10	0·16	Montgomery.
22	7	2	0	0	0	0	0	0	N 9° E	N 53° E	0·5	0·8	−0·3	27	+ 9	69	0	·253	−·005	1·8	−0·3	0	−0·7	0·03	0·22	−0·19	0·03	0·22	−0·19	0·03	Multan.
																															VII.—North-West Frontier Province.
23	0	0	0	1	5	2	0	0	S 6° W	S 16° W	0·2	1·7	−1·5	23	− 6	80*	+10	·225*	+·020	2·7	−1·0	3	+1·9	0·71	0·50	+0·21	0·71	0·50	+0·21	0·29	Peshawar.
30	0	0	0	0	0	0	0	1	N 45° W	N 32° W	0·6	0·6	0	3	− 8	75	+ 3	·235	+·013	2·5	−0·1	1	+0·3	0·10	0·20	−0·10	0·10	0·20	−0·10	0·10	Dera Ismail Khan.
																															VIII.—Sind.
28	0	0	0	3	0	0	0	0	S 45° E	N 7° E	1·7	1·2	+0·5	10	− 4	58	− 8	·210	−·039	1·8	−0·8	1	+0·6	0·14	0·14	0	0·14	0·14	0	0·10	Jacobabad.
8	22	0	0	0	0	1	0	0	N 2° W	N 2° E	2·4	5·1	−2·7	69	+13	60	+ 5	·260	− ·011	0·6	−1·4	2	+1·8	0·35	0·06	+0·29	0·35	0·06	+0·29	0·20	Hyderabad.
0	7	21	2	0	0	1	0	0	N 37° E	N 54° E	6·0	6·1	−0·1	86	+ 4	58	0	·328	−·013	2·0	+0·1	2	+1·6	0·40	0·13	+0·27	0·40	0·13	+0·27	0·19	Karachi.
																															IX.—Rajputana.
9	2	1	2	14	2	0	1	0	S 52° E	N 4° W	1·6	2·4	−0·8	46	+24	54	0	·203	−·023	2·0	−0·4	1	+0·6	0·11	0·20	−0·09	0·11	0·20	−0·09	0·11	Bikaner.
8	0	22	1	0	0	0	0	0	N 47° E		2·0			72		36	− 8	·166	−·047	3·0	+0·8	0	−0·5	0	0·13	−0·13	0	0·13	−0·13	0	Jodhpur.
17	3	4	2	2	0	1	1	1	N 41° E	N 2° W	1·9	2·1	−0·2	20	− 2	46	−12	·188	−·067	2·6	+0·6	0	−0·6	0	0·22	−0·22	0	0·22	−0·22	0	Jaipur.
31	0	0	0	0	0	0	0	0	Calm	N 24° E	0·8	1·2	−0·4	(a)		62	−10	·202	−·068	0·7	−1·3	0	−0·5	0	0·31	−0·31	0	0·31	−0·31	0	Ajmer.
27	0	1	0	2	0	0	1	0	S 57° E		0·5			3		47	−11	·237	−·052	2·0	+0·7	0	−0·6	0	0·28	−0·28	0	0·28	−0·28	0	Kotah.
																															X.—Bombay.
3	1	14	12	1	0	0	0	0	N 66° E	N 72° E	5·5	5·8	−0·3	82	+10	49	+ 3	·250	+·004	2·2	+0·9	0	−0·2	0	0·05	−0·05	0	0·05	−0·05	0	Deesa.
22	4	0	4	0	0	0	1	0	N 37° E	N 15° W	2·8	4·2	−1·4	17	+10	53	− 4	·303	−·046	1·2	−0·2	0	−0·1	0	0·04	−0·04	0	0·04	−0·04	0	Bhuj.
0	1	11	18	0	1	0	0	0	N 53° E		5·8			40		53	+ 1	·303	−·017	1·1	+0·4	0	−0·3	0	0·05	−0·05	0	0·05	−0·05	0	Jamnagar.
0	1	1	1	0	0	0	0	0	N 45° E†		7·5			100		59	− 8	·404	−·065	0·6	−0·8	0	−0·3	0	0·05	−0·05	0	0·05	−0·05	0	Dwarka.
7	5	13	5	0	1	0	0	0	N 47° E	N 69° E	4·4	3·4	+1·0	62	+12	33	−16?	·182	−·111?	3·0	+2·0?	0	−0·2	0	0·04	−0·04	0	0·04	−0·04	0	Rajkot.
2	16	19	1	1	0	0	0	1	N 19° E	N 27° E	5·0	4·2	+0·8	82	+ 7	44	− 7	·298	−·055	2·0	+0·4	0	−0·3	0	0·09	−0·09	0	0·09	−0·09	0	Veraval.
2	0	4	0	1	1	1	7	15	N 53° W	N 77° W	4·4	4·6	−0·2	59	+ 1	51	− 3	·288	−·031	2·3	+0·7	0	−0·2	0	0·08	−0·08	0	0·08	−0·08	0	Bhavnagar Para.
9	7	7	4	3	0	0	0	1	N 44° E	N 48° E	2·7	3·2	−0·5	49	− 9	51	−10	·336	−·061	1·7	+0·4	0	−0·2	0	0·04	−0·04	0	0·04	−0·04	0	Surat.
5	0	20	6	0	0	0	0	0	N 55° E	N 62° E	3·5	3·4	+0·1	79	+ 5	37	−10	·242	−·053	1·4	0	0	−0·1	0	0·03	−0·03	0	0·03	−0·03	0	Ahmadabad.
1	4	13	11	2	0	0	0	0	N 61° E	N 70° E	6·2	7·1	−0·9	79	− 7	69	− 3	·537	−·048	2·0	+0·3	0	−0·2	0	0·06	−0·06	0	0·06	−0·06	0	Bombay.
5	2	3	13	7	1	0	0	0	S 85° E	S 74° E	5·8	5·8	0	66	+ 1	56	+ 1	·528	+·054	0·6	−0·7	0	−0·3	0	0·09	−0·09	0	0·09	−0·09	0	Ratnagiri.
2	7	16	5	0	0	0	0	1	N 39° E	S 77° E	4·9	5·8	−0·9	79	− 1	82	+ 6	·894	+·072	3·7	+2·2	0	−0·3	0	0·19	−0·19	0	0·19	−0·19	0	Marmagao.
26	3	2	0	0	0	0	0	1	N 8° E	N 67° E	1·0	2·2	−1·2	17	−63	87	+11	·651	+·098	2·8	+1·6	0	−0·3	0	0·24	−0·24	0	0·24	−0·24	0	Karwar.

* Mean of 30 days.
(a) Indeterminate.
† Wind observations for 3 days.

Table

(2) Abstract of observations taken at 8 hr

Number of sub-division	Station.	Height of bar-cistern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	X.—Bombay —*concld.*																					
26	Malegaon . . .	1,430	28·629	+·001	30·057	28·689	7th	28·564	10th	63·6	52·1	86·9	+2·2?	53·5	+1·7	70·2	+1·9?	33·4	91·8	23rd	45·2	10th
	Ahmadnagar . . .	2,154	27·900	−·005	30·028	27·951	28th	27·835	10th	65·3	55·2	84·7	+1·5	56·3	+4·1	70·5	+2·8	28·4	88·2	23rd	46·8	11th
	Poona	1,846	28·199	—·003	30·036	28·254	25th	28·148	10th	64·0	56·9	87·0	+2·4?	57·5	+3·7	72·2	+3·1?	29·5	91·1	21st	50·9	10th
	Sholapur . . .	1,590	28·448	−·009	30·008	28·501	25th	28·382	13th	69·3	60·4	86·0	+0·5	62·0	+4·0	74·0	+2·3	24·0	89·2	16th	51·8	10th
	Bijapur	*1,948*	28·101	+·010	30·010	28·154	25th	28·043	13th	69·8	63·4	85·0	+0·1	62·5	+5·2	73·7	+2·8	22·5	88·9	17th	51·6	10th
	Belgaum	2,562	27·505	+·025	30·021	27·552	25th	27·435	13th	66·5	60·5	82·5	+0·8	59·6	+1·3	71·0	+1·1	22·9	86·0	17th & 19th.	50·9	10th
	XI.—Central India.																					
20	Neemuch . . .	1,626	28·470	+·021	30·121	28·552	7th	28·367	12th	58·6	48·3	76·2	−2·3	48·0	−1·2	62·1	−1·7	28·2	82·9	31st	38·8	18th
	Indore	1,823	28·252	+·016	30·093	28·375	7th	28·167	11th	60·3	52·7	80·5	+0·8	48·7	−0·9	64·5	−0·1	31·8	86·1	26th & 30th.	41·5	6th
21	Nowgong . . .	754	29·348	+·011	30·118	29·420	7th	29·217	31st	49·8	45·9	73·2	−2·0	45·9	−0·8	59·6	−1·4	27·3	78·9	31st	39·7	19th
	Sutna	1,041	28·059	+·027	30·127	29·111	19th	29·000	5th	52·3	48·1	73·1	−2·2	46·9	−0·4	60·0	−1·3	26·2	78·8	15th & 31st.	39·3	18th
	XII.—Central Provinces.																					
22	Buldana	2,134								67·0	57·1	80·2	+0·6	59·3	+1·5	69·7	+1·1	20·9	86·4	31st	51·2	8th
	Akola	925	29·155	+·009	30·066	29·210	18th	29·099	5th	64·9	56·5	85·3	+1·4	56·4	+4·5	70·8	+2·9	28·9	91·6	31st	44·7	9th
	Amraoti	1,215	28·854	+·003	30·055	28·896	8th & 18th.	28·787	11th	67·4	56·2	83·7	+0·8	59·8	+2·6	71·7	+1·7	23·9	88·6	28th & 31st.	53·8	8th
23	Khandwa . . .	1,044	29·026	+·003	30·077	29·094	18th	28·967	11th	58·6	51·0	84·4	+0·9	52·0	+1·2	68·2	+1·1	32·4	91·6	31st	42·6	9th
	Hoshangabad . .	1,006	29·090	+·010	30·105	29·157	18th	29·019	11th	57·3	52·7	78·5	−0·9	51·4	−0·3	64·9	−0·6	27·1	85·1	26th	45·4	8th
	Saugor	1,807	28·260	−·002?	30·097?	28·309	7th	28·174	13th	56·9	46·9	75·5	−1·3	52·0	−0·5	63·8	−0·9	23·5	84·9	31st	44·4	17th
	Jubbulpore . . .	1,327	28·746	+·007	30·107	28·817	18th	28·680	11th	53·2	49·4	74·4	−2·7	48·1	+1·7	61·3	−0·5	26·3	79·9	26th	39·9	19th
	Seoni	2,033	28·050	+·025	30·100	28·119	19th	27·985	11th	59·6	51·4	75·8	−2·1	51·6	+1·5	63·7	−0·3	24·2	82·8	27th	46·4	11th
	Nagpur	1,017	29·067	+·014	30·077	29·123	19th	28·998	5th	62·3	54·2	81·4	−0·2	54·9	+0·5	68·2	+0·1	26·5	86·7	27th	47·0	11th
24	Pendra	2,010	28·050	+·043	30·120	28·109	19th	27·981	11th	57·7	50·5	74·8	−0·4	49·1	−0·8	62·0	−0·6	25·7	81·3	30th	39·1	8th
	Raipur	970	29·103	+·002	30·069	29·160	19th & 25th.	29·035	11th	60·9	54·0	80·0	+0·6	54·4	+0·3	67·2	+0·5	25·6	84·8	27th	48·6	8th
	Chanda	*634*	29·442	−·006	30·048	29·495	7th	29·372	5th	64·2	59·2	84·8	+2·2	55·7	+3·6	70·3	+2·9	29·1	88·7	17th	44·4	11th
	Jagdalpur . . .	1,813	28·242		30·059	28·299	20th	28·153	11th	61·2	57·9	81·0		55·1		68·0		25·9	85·5	15th	43·2	11th
	XIII.—Hyderabad.																					
27	Aurangabad . . .	1,905	28·158	−·013	30·040	28·214	7th	28·102	11th	67·6	56·7	84·3	+0·5	59·3	+5·4	72·1	+2·9	24·4	88·2	21st	51·1	10th
	Nizamabad . . .	1,248	28·313	?	30·040	28·869	21st	28·728	11th	67·3	61·5	85·2	+2·2	58·9	+5·2 ?	72·0	+3·7	26·3	89·3	17th	41·7	9th
	Bidar	*2,165*								71·1	62·6*	83·3	+2·4	42·7?	−17·8	63·0?	−7·7?	40·6?	86·6	17th	36·9	16th
28	Gulbarga . . .	1,503	28·554	+·005	30·034	28·618	25th	28·490	13th	67·6	60·8	86·3	+1·0	61·2	+2·7	73·7	+1·9	25·1	89·0	19th	50·0	11th
	Raichur	*1,811*	28·737	+·018	30·013	28·800	25th	28·660	11th	71·1	65·0	86·2	+1·5	65·6	+2·1	75·9	+1·3	20·6	88·7	18th	56·0	9th
	Hyderabad (Deccan) .	1,738	28·347	+·016	30·045	28·411	25th	28·248	11th	66·9	61·2	81·2	−1·6	61·7	+3·7	71·4	+1·1	19·5	84·5	23rd	52·2	11th
	Hanamkonda . .	877	29·201	+·023?	30·042	29·267	25th	29·114	11th	72·3	65·2	84·6	+1·2	65·1	+4·4	74·8	+2·8	19·5	90·5	15th	55·7	10th
	XIV.—Mysore.																					
29	Chitaldrug . . .	2,405	27·630	+·010	29·974	27·681	25th	27·559	13th	69·1	62·8	81·8	−0·1	62·6	+1·6	72·2	+0·7	19·2	84·8	18th	56·7	11th
	Hassan	3,199	26·924	+·020	29·983	26·969	20th	26·855	13th	66·1	62·8	80·1	+0·4	59·1	+3·2	69·6	+1·8	21·0	83·8	18th	51·2	11th
	Bangalore . . .	3,021	27·049	+·012	29·988	27·107	20th	26·960	11th	65·7	61·6	79·8	+1·3	60·0	+1·5	69·9	+1·4	19·8	82·7	2nd	52·3	10th
	Mysore	2,518	27·532	+·018	29·976	27·579	20th	27·462	11th	69·9	64·0	82·3	+0·4	62·6	+2·4	72·4	+1·4	19·7	84·3	14th, 15th & 21st.	53·8	10th

N.B.—Elevations in italics indicate barometrical determinations. *Mean of 24 days.

B—*continued.*

214 stations in India, etc., in December, 1918—*continued.*

Wind direction: Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity: Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness: Actual percentage.	Departure from normal.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud: Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall: Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															X.—Bombay —*concld.*
19	2	0	0	1	0	8	1	0	S 54° W	N 69° W	2·9	3·1	−0·2	27	−34	41	−12	·252	−·055	3·1	+1·3	0	−0·4	0·08	0·21	−0·13	0·08	0·21	−0·13	0·08	Malegaon.
14	1	1	0	6	1	1	1	6	W	N 31° E	3·9	3·9	0	3	− 2	50	− 8	·322	−·029	1·7	+0·2	1	+0·3	0·30	0·48	−0·18	0·30	0·48	−0·18	0·25	Ahmadnagar.
22	1	0	4	1	0	1	1	1	N 82° E	N 88° E	3·6	4·4	−0·8	7	−15	63	+ 5	·383	+·053	2·2	+0·5	1	+0·5	0·13	0·17	−0·04	0·13	0·17	−0·04	0·11	Poona.
9	0	1	3	15	1	1	0	1	S 49° E	S 74° E	5·8	5·8	0	56	−12	58	+ 9	·424	+·081	3·8	+1·7	1	+0·4	0·53	0·50	+0·03	0·53	0·50	+0·03	0·53	Sholapur.
4	3	0	5	3	13	2	1	0	S 19° E	S 67° E	1·9	2·8	−0·9	46	−23	70	+ 3	·513	+·065	1·3	−0·9	0	−0·6	0·01	0·26	−0·25	0·01	0·26	−0·25	0·01	Bijapur.
15	1	2	9	4	0	0	0	0	S 88° E	S 81° E	2·4	8·8	−6·4	43	−33	70	+12	·457	+·065	4·5	+2·5	0	−0·5	0	0·41	−0·41	0	0·41	−0·41	0	Belgaum.
																															XI.—Central India.
17	2	0	12	0	0	0	0	0	N 81° E	N 58° E	3·8	4·2	−0·4	40	−25	43	−12	·215	−·048	2·5	+1·0	0	−0·6	0	0·19	−0·19	0	0·19	−0·19	0	Neemuch.
16	0	11	3	1	0	0	0	0	N 59° E	N 68° E	1·0	1·3	−0·3	43	+25	59	0	·309	−·005	2·0	+0·4	0	−0·6	0	0·24	−0·24	0	0·24	−0·24	0	Indore.
16	2	4	0	0	0	4	4	1	N 60° W	N 76° W	0·9	0·8	+0·1	20	+ 6	71	− 3	·258	−·051	3·5	+1·8	1	+0·3	0·21	0·46	−0·25	0·21	0·46	−0·25	0·12	Nowgong.
30	1	0	0	0	0	0	0	0	N	N 24° W	0·7	2·5	−1·8	3	−41	73	+ 5?	·291	−·001	1·6	−0·1	1	+0·2	0·32	0·38	−0·06	0·32	0·38	−0·06	0·30	Sutna.
																															XII.—Central Provinces.
1	1	2	11	10	1	1	1	3	S 76° E		3·7	4·0	−0·3	52		52		·348		4·1		1	−0·1	0·48	0·61	−0·13	0·48	0·61	−0·13	0·40	Buldana.
5	0	5	15	3	2	1	0	0	S 86° E	S 85° E	3·1	2·3	+0·8	66	+22	55	− 2	·312	+·021	4·7	+2·7	0	−1·1	0·04	0·68	−0·64	0·04	0·68	−0·64	0·04	Akola.
9	0	8	8	1	0	1	3	1	N 63° E	N 72° E	3·3	2·9	+0·4	37	−35	46	− 6	·311	−·021	2·7	+0·9	1	+0·2	0·34	0·55	−0·21	0·34	0·55	−0·21	0·27	Amraoti.
15	0	9	4	1	0	1	1	0	N 62° E	N 63° E	3·3	2·0	+1·3	33	+ 1	56	− 1	·280	−·018	2·8	+1·3	0	−0·4	0·02	0·31	−0·29	0·02	0·31	−0·29	0·01	Khandwa.
14	0	11	0	6	0	0	0	0	N 73° E	N 63° E	1·4	1·9	−0·5	40	−25	71	+ 4	·341	+·020	2·5	+0·9	1	+0·2	0·75	0·47	+0·28	0·75	0·47	+0·28	0·75	Hoshangabad.
5	1	14	4	5	2	0	0	0	N 73° E	S 77° E	3·8	2·0	+1·8	56	+	43	−11	·199	−·077	2·3	+0·9	1	+0·4	0·29	0·48	−0·19	0·29	0·48	−0·19	0·27	Saugor.
2	1	1	0	4	4	0	1	0	S 26° E	S 41° E	0·9	1·2	−0·3	20	−16	74	− 1	·307	−·014	2·2	+0·8	1	+0·4	0·45	0·29	+0·16	0·45	0·29	+0·16	0·45	Jubbulpore.
22	3	4	1	1	0	0	0	0	N 42° E	N 30° E	0·7	1·6	−0·9	27	−15	54	−10	·280	−·047	1·4	−0·3	2	+1·2	1·59	0·55	+1·04	1·59	0·55	+1·04	1·37	Seoni.
2	6	13	9	0	0	0	0	1	N 48° E	N 7° E	2·8	2·2	+0·6	76	+47	56	− 4	·319	−·026	1·6	−0·5	1	+0·1	1·05	0·58	+0·47	1·05	0·58	+0·47	1·04	Nagpur.
20	5	2	0	1	0	0	0	3	N		3·0			25		58	− 3	·285	−·009	0·7	−0·5	1	+0·3	0·31	0·35	−0·04	0·31	0·35	−0·04	0·26	Pendra.
1	3	9	6	2	0	0	0	1	N 56° E	N 14° E	1·3	1·8	−0·5	53	+37	61	− 4	·334	−·018	3·0	+1·1	2	+1·5	0·47	0·26	+0·21	0·47	0·26	+0·21	0·24	Raipur.
2	6	7	6	1	0	1	0	8	N 19° E	N 39° E	1·9	1·2	+0·7	53	+21	70	− 3	·441	+·042	3·9	+2·2	0	−0·8	0·14	0·26	−0·12	0·14	0·26	−0·12	0·07	Chanda.
22	5	0	2	1	1	0	0	0	N 40° E		0·9			13		81		·447		4·3		4		0·82	0·15	+0·67	0·82	0·15	+0·67	0·28	Jagdalpur.
																															XIII.—Hyderabad.
4	1	6	13	5	0	0	1	1	N 33° E		4·8			62		49	− 1	·333	−·005	5·1	+3·8	3	+2·3	0·77	0·31	+0·46	0·77	0·31	+0·46	0·32	Aurangabad.
23	0	2	2	1	3	0	0	0	S 60° E		1·5			13		70	+ 3	·477	+·042	4·0	+2·1	1	+0·6	1·96	0·12	+1·84	1·96	0·12	+1·84	1·96	Nizamabad.
											3·1					58*	− 4	·453*	+·014	1·3	0	1	+0·3	1·33	0·25	+1·08	1·33	0·25	+1·08	1·33	Bidar.
4	0	7	13	3	3	1	0	0	S 87° E	N 76° E	2·7	5·3	−2·6	62	+15	66	+ 5	·457	+·045	1·8	+0·1	0	−0·3	0·03	0·19	−0·16	0·03	0·19	−0·16	0·03	Gulbarga.
9	1	2	3	13	2	1	0	0	S 53° E	S 77° E	5·2	5·4	−0·2	53	−13	71	+ 7	·543	+·074	3·6	+1·4	0	−0·2	0·09	0·17	−0·08	0·09	0·17	−0·08	0·09	Raichur.
18	0	3	0	9	0	1	0	0	S 57° E	S 63° E	3·0	2·3	+0·7	30	+16	71	− 1	·474	+·030	4·7	+2·7	1	+0·6	1·76	0·14	+1·62	1·76	0·14	+1·62	1·75	Hyderabad (Deccan).
0	7	0	0	8	8	0	1	7	S 11° W		2·9			5		67	+ 2	·532	+·070	5·2	+2·7	1	+0·5	0·98	0·22	+0·76	0·98	0·22	+0·76	0·90	Hanamkonda.
																															XIV.—Mysore.
4	0	0	14	13	0	0	0	0	S 69° E	S 77° E	4·4	5·7	−1·3	79	− 9	70	+ 3	·495	+·017	4·3	+1·3	1	+0·3	0·37	0·37	+0·60	0·97	0·37	+0·60	0·95	Chitaldrug.
10	0	0	14	7	0	0	0	0	S 75° E	N 82° E	2·5	2·5	0	61	−24	83	+ 7	·537	+·049	4·4	+0·5	1	+0·1	0·18	0·79	−0·61	0·18	0·79	−0·61	0·11	Hassan.
1	2	11	15	2	0	0	0	0	N 71° E	N 67° E	6·0	4·0	+2·0	82	− 4	78	− 1	·501	+·013	4·9	+0·8	1	−0·4	1·59	0·46	+1·13	1·59	0·46	+1·13	1·55	Bangalore.
2	5	13	10	0	0	1	0	0	N 54° E	N 68° E	6·1	7·5	−1·4	72	−11	71	− 4	·524	+·012	4·0	−0·4	0	−1·1	0·02	0·39	−0·37	0·02	0·39	−0·37	0·02	Mysore.

* Mean of 24 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of bar-ometer above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.											
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	XV.—Madras.																					
30	Mangalore	72	29·937	+·002	29·942	30·002	25th	29·861	14th	77°8	70°5	88°9	−0·1	71°7	+1·5	80°3	+0·7	17·2	93·2	30th	64·4	11th
	Calicut	27	29·970	+·005	29·927	30·033	25th	29·898	13th	75°9	72°6	86°9	−0·3	72°3	+1·6	79°6	+0·7	14·6	89·4	18th	65·7	10th
	Cochin	9	29·983	+·014	29·929	30·043	4th	29·913	13th	77°6	71°7	88°7	0	73°6	+0·8	81·1	+0·4	15·1	91·4	20th	69·8	8th & 9th.
	Trivandrum	198	29·795	+·020	29·925	29·843	22nd	29·717	13th	75°6	72°5	83°2	+0·1	73°3	+0·2	78°2	+0·1	9·9	85·6	14th	70°2	8th & 9th.
31	Pamban	37	29·962	−·006?	29·926	30·022	23rd	29·860	13th	77°4	74°8	83°5	+1·3	75°5	+1·0	79°5	+1·1	8·0	84·7	30th	73·5	28th
	Madura	447	29·574	+·005	29·960	29·650	20th	29·465	12th	76°5	71°7	85°7	−0·4	71°7	+1·5	78°7	+0·5	14·0	88·8	27th	66·9	10th
	Pudukkottai	318	29·714	+·014	29·970	29·782	20th	29·590	10th	74°3	70°0	83°4	−2·4?	71°7	+2·8?	77°6	+0·2?	11·7	87·1	1st	66·7	30th
	Negapatam	31	29·986	+·008	29·948	30·067	20th	29·861	12th	75°7	71°9	81°5	−0·6	72°6	+0·5	77°0	−0·1	8·9	84·5	2nd	64·6	12th
	Trichinopoly	255	29·789	+·018	29·981	29·851	20th	29·667	12th	75°4	71°5	84°5	−0·9	69°7	+0·4	77°1	−0·3	14·8	87·5	30th	64·8	10th
	Coimbatore	1,341	28·694	+·021	29·987	28·755	20th	28·606	11th	72°4	67°4	83°3	−1·7	65°9	+0·1	74°6	−0·8	17·4	86·9	17th	59·1	10th
	Salem	913	29·123	+·019	29·988	29·191	20th	29·015	11th	72°6	58°1	86°8	+0·4	67°0	+1·6	76°9	+1·0	19·8	90·7	2nd	58·6	10th
	Cuddalore	37	29·994	+·001	29·961	30·062	20th	29·864	11th & 12th.	74°6	71°6	81°3	−1·9	71°7	+2·0	76°5	+0·1	9·6	83·7	17th	66·6	10th
	Vellore	707	29·337	+·011	30·032?	29·404	20th	29·217	11th	70°6	68°7	83°6	+1·9	66°1	+1·5	74·9	+1·7	17·5	86·5	3rd	60·5	23rd
	Madras	22	30·024	+·002	29·977	30·097	20th	29·895	10th	76°3	72°7	83°0	−0·3	72°0	+2·3	77·5	+1·0	11·0	85·9	17th	67·3	30th
32	Cuddapah	428	29·627	+·003	30·003	29·694	25th	29·539	11th	73°5	63°4	85·9	−0·8	66°7	+1·4	76·3	+0·3	19·2	88·9	1st & 3rd.	59·2	10th
	Bellary	1,475	28·566	+·005	30·005	29·630	25th	28·490	11th	71·0	65·1	84·9	−1·0	63·4	+2·1	74·1	+0·5	21·5	88·3	18th	53·7	11th
	Kurnool	923	29·129	+·009	30·016	29·187	25th	29·038	13th	69·9	65·3	86·2	−0·5	63·9	+4·3	75·1	+1·9	22·3	88·7	22nd	50·6	11th
33	Nellore	66	29·986	−·004	29·988	30·056	25th	29·874	11th	73·1	72·2	83·1	−1·1	70·0	+1·9	76·5	+0·4	13·1	87·1	19th	65·1	10th
	Masulipatam	15	30·067	+·004	30·016	30·130	25th	29·950	11th	72·4	69·3	82·6	−0·5	68·0	+1·5	75·3	+0·5	14·6	84·2	3rd	62·5	10th
	Cocanada	26	30·057	+·009	30·020	30·130	25th	29·948	11th	73·1	68·3	80·7	+0·1	68·2	+2·1	74·5	+1·1	12·5	82·1	19th	63·6	23rd & 24th.
	Waltair (Vizagapatam)	*226*	30·040	+·004	30·017	30·103	25th	29·934	11th	74·8	67·3	80·9	+2·3	70·2	+1·1	75·5	+1·7	10·7	83·2	4th	64·4	27th
	Calingapatam	19	30·074		30·031	30·143	25th	29·975	11th	68·8	65·3	81·3		64·5		72·9		16·8	83·8	28th	59·4	9th
	Gopalpur	33	30·048	+·014	30·046	30·114	25th	29·971	11th	68·7	64·7	80·1	+0·2	63·4	+2·7	71·8	+1·5	16·7	82·2	7th	56·8	10th
	Bay Islands.																					
1	P. V. Fraser	8	30·115		30·043	30·190	25th	30·020	9th	72·3	65·5											
	Port Blair	58	29·930	+·006	29·918	29·988	17th	29·791	9th	80·7	75·8	85·3	−0·5	76·7	+0·2	81·0	−0·1	8·6	87·0	12th & 13th.	72·3	28th
	Table Island		29·909	+·004	29·933	29·979	30th	29·783	9th	80·2	74·2	83·7	0	77·5	+1·1	80·6	+0·5	6·2	85·8	12th	74·0	27th
	Kashmir.																					
12	Muzaffarabad		27·731			27·797	28th	27·640	13th	47·5	42·0	58·9		39·9		49·4		19·0	63·6	4th	31·9	15th
	Srinagar	5,204	25·049	+·012	25·020	25·221	28th	24·828	13th	30·5	33·1*	42·0	−6·3	27·4	−0·5	34·7	−3·4	14·6	55·5	12th	15·8	23rd
	Gulmarg	*8,569*				closed	for w	inter	mont	hs.												
	Dras	*10,050*	20·829	−·009	20·797	20·999	29th	20·627	13th	5·8		22·0	−5·7	−2·0	−2·2	10·1	−3·9	24·0	29·6	29th & 31st.	−25·0	18th
	Leh	*11,503*	19·684	−·038	19·652	19·861	29th	19·485	14th	16·0				11·5	−1·6						1·3	18th
	Skardu	*7,505*	22·959	−·049	22·929	23·108	7th	22·758	13th	24·5		36·6	−4·9	21·8	−0·8	29·2	−2·9	14·8	46·5	1st	13·8	18th & 24th.
	Gilgit	4,890	25·305	−·018	25·278	25·430	7th	25·130	5th	35·1	34·9†	48·3	−1·1	31·9	−2·0	40·1	−1·5	16·4	57·7	1st	23·7	18th

N.B.—Elevations in italics indicate barometrical determinations.

*Mean of 6 days.
† „ „ 12 „

NOTE.—The barometric readings are not reduced to sea level in the case o

B—*continued.*

at 214 stations in India, etc., in December, 1918—*continued.*

Wind direction. Number of winds from: Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															XV.—Madras.
1	0	3	26	1	0	0	0	0	N 87° E	S 86° E	4·4	2·1	+2·3	96	+10	68	+ 1	·647	+·018	3·9	+1·4	1	+0·3	0·85	0·50	+ 0·35	0·85	0·50	+ 0·35	0·77	Mangalore.
11	0	9	5	3	0	1	1	1	N 69° E	N 85° E	2·9	5·1	−2·2	40	−43	84	+ 6	·752	+·061	3·1	+0·8	1	−0·8	0·62	1·15	− 0·53	0·62	1·15	− 0·53	0·56	Calicut.
3	0	12	16	0	0	0	0	0	N 71° E	N 36° E	3·4	3·1	+0·3	82	+ 3	74	0	·702	+·013	3·4	+0·6	3	+0·6	2·84	1·76	+ 1·08	2·84	1·76	+ 1·08	1·66	Cochin.
19	2	6	11	2	0	0	0	0	N 74° E	N 49° E	2·6	2·7	−0·1	56	+20	86	+ 7	·758	+·042	6·1	+1·9	6	+2·5	4·19	2·40	+ 1·79	4·19	2·40	+ 1·79	1·85	Trivandrum.
0	16	5	0	0	0	0	1	9	N 9° W	N 13° E	10·4	9·6	+0·8	86	+ 3	88	0	·827	+·008	5·4	+1·0	10	+0·9	7·52	7·64	− 0·12	7·52	7·64	− 0·12	2·45	Pamban.
1	10	11	3	0	0	0	2	4	N 16° E	N 5° E	4·4	3·4	+1·0	72	−11	78	+ 3	·714	+·044	7·1	+2·9	4	+0·7	1·22	1·81	− 0·59	1·22	1·81	− 0·59	0·56	Madura.
2	14	13	0	0	0	0	0	2	N 18° E		4·9			87		80	+ 3	·678	+·024	5·4	+0·1	7	+5·0	2·78	2·92	− 0·14	2·78	2·92	− 0·14	0·81	Pudukkottai.
1	4	10	0	1	0	0	1	14	N 9° W	N 6° W	8·0*	6·6	+1·4	66	−20	82	0	·736	−·016	6·6	+0·3	7	−2·4	9·10	11·84	− 2·74	9·10	11·34	− 2·24	4·76	Negapatam.
1	10	12	1	0	0	1	2	4	N 10° E	N 16° E	2·9	3·3	−0·4	72	+22	81	+ 4	·721	+·053	5·2	+0·5	7	+2·5	2·91	2·69	+ 0·22	2·91	2·69	+ 0·22	0·82	Trichinopoly.
10	1	17	3	0	0	0	0	0	N 49° E	N 77° E	2·5	2·2	+0·3	62	−21	76	−7?	·605	−·040	3·9	−0·9	4	+1·4	2·45	1·22	+ 1·23	2·45	1·22	+ 1·23	1·40	Coimbatore.
13	3	8	5	0	0	0	1	1	N 44° E	N 40° E	3·0	2·8	+0·2	43	+14	78	+ 1	·633	−·001	4·1	+0·2	1	−1·4	0·83	1·01	− 0·18	0·83	1·01	− 0·18	0·74	Salem.
1	11	3	0	0	0	1	2	13	N 24° W	N 10° W	6·3	2·0	+4·3	76	− 3	86	− 1	·736	−·007	6·3	+1·7	8	+2·0	8·79	7·65	+ 1·14	8·79	7·65	+ 1·14	3·79	Cuddalore.
31	0	0	0	0	0	0	0	0	Calm.		1·8			(a)		90	+ 4	·676	+·044	4·7	+0·7	3	−0·7	0·83	3·15	− 2·32	0·83	3·15	−2·3	0·29	Vellore.
10	8	6	1	0	0	0	0	6	N 4° E	N 8° E	3·5	5·3	−1·8	53	−30	83	0	·755	+·029	5·3	+0·4	7	+1·7	6·90	5·97	+ 0·93	6·90	5·97	+ 0·93	2·05	Madras.
8	2	5	1	7	1	1	2	4	N 64° E	S 75° E				13	−30	81	+ 4	·667	+·051	4·1	+0·7	2	+0·4	0·58	0·99	− 0·41	0·58	0·99	− 0·41	0·35	Cuddapah.
8	1	2	10	6	2	1	0	1	S 75° E	S 59° E	2·4	2·4	0	49	+ 6	72	+ 6	·550	+·081	3·9	+0·6	0	−0·3	0·05	0·12	− 0·07	0·05	0·12	− 0·07	0·05	Bellary.
21	0	0	5	2	2	1	0	0	S 54° E	S 80° E	1·9			27	+26	77	+ 5 ?	·569	+·068	3·3	+1·4	1	+0·5	0·10	0·27	− 0·17	0·10	0·27	− 0·17	0·10	Kurnool.
18	3	0	0	0	0	5	0	5	N 67° W	N 51° W	1·7	3·1	−1·4	23	−49	96	+11	·772	+·076	4·5	−1·3?	5	+2·0	2·70	3·00	− 0·30	2·70	3·00	− 0·30	1·05	Nellore.
1	10	17	3	0	0	0	0	0	N 34° E	N 15° E	4·4	3·8	+0·6	86	0	85	+ 4	·673	+·034	3·7	+1·0	3	+1·8	1·85	0·93	+ 0·92	1·85	0·93	+ 0·92	1·25	Masulipatam.
1	12	17	1	0	0	0	0	0	N 28° E	N 5° E	8·0	6·6	+1·4	89	− 1	77	+ 4	·621	+·058	5·2	+2·4	0	−1·0	0	0·97	− 0·97	0	0·97	− 0·97	0	Cocanada.
3	1	13	1	0	0	0	6	7	N 3° W	N 31° W	5·5			49	0	67	− 3	·573	+·005	4·9	+1·8	0	−1·1	0·02	1·26	− 1·24	0·02	1·26	− 1·24	0·01	Waltair (Vizagapatam).
1	9	4	1	0	0	0	2	14	N 20° W		5·9			78		82		·578		2·9		0	−1·4	0	1·49	− 1·49	0	1·49	− 1·49	0	Calingapatam.
0	16	1	0	0	0	0	0	14	N 19° W	N 23° W	5·9	6·0	−0·1	96	+21	80	+ 3	·561	+·064	3·7	+2·5	0	−1·1	0·08	0·84	− 0·76	0·08	0·84	− 0·76	0·08	Gopalpur.
																															Bay Islands.
3	19	8	1	0	0	0	0	0	N 16° E					84		68		·538		2·4		0		0	1·33	− 1·33	0	1·33	− 1·33	0	P. V. Fraser.
2	4	9	8	4	2	1	0	1	N 71° E	N 55° E	6·5	5·3	+1·2	53	− 5	79	− 2	·825	+·016	4·7	−0·5	7	−0·3	6·89	6·87	+ 0·02	6·89	6·87	+ 0·02	3·30	Port Blair.
1	11	7	9	2	1	0	0	0	N 49° E		8·4			62		74	- 2	·766	+·003	4·7	−1·5	3	+1·4	2·23	2·31	− 0·08	2·23	2·31	- 0·08	1·01	Table Island.
																															Kashmir.
22	0	1	1	1	3	2	0	0	S 4° E		2·0			16		63		·201		5·9		8		2·27	2·29	− 0·02	2·27	2·29	− 0·02	0·55	Muzaffarabad.
16	2	1	0	6	1	2	0	2	S 24° E	S 42° E	1·7	1·9	−0·2	10	− 9	91†		·179†		8·9	+3·4	6	+2·5	3·38	1·36	+ 2·02	3·38	1·36	+ 2·02	1·25	Srinagar.
																															Gulmarg.
28	0	0	0	1	0	1	0	1	S 45° W		0·4			3						6·8	+1·7	7	+0·9	2·90	1·66	+ 1·24	2·90	1·66	+ 1·24	1·15	Dras.
19	1	8	2	0	0	0	0	0	N 52° E	S 22° W	1·8	0·9	+0·9	37	+20					7·7	+2·0	0	−0·6	0·11	0·17	− 0·06	0·11	0·17	− 0·06	0·06	Leh.
26	0	0	0	0	2	2	1	0	S 36° W		0·4			13						7·6	+1·6	2	+1·0	0·79	0·38	+ 0·41	0·79	0·38	+ 0·41	0·39	Skardu.
39	0	0	0	0	0	1	0	0	S 45° W		0·2			3		70‡		·164‡		7·2	+1·2	0	−0·3	0·12	0·11	+ 0·01	0·12	0·11	+ 0·01	0·08	Gilgit.

hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 26 days.
† „ „ 6 „
‡ „ „ 12 „

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs

Number of sub-division	Station	Height of bar-cistern above sea-level in feet	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Baluchistan.																					
15	Fort Sandeman	4,614	25·523		25·492	25·613	7th	25·397	13th	34·8	34·5*	56·8		31·8		44·3		25·0	69·9	11th	23·7	6th
	Quetta	5,502	24·740	—·011	24·700	24·811	16th	24·624	10th	31·0	37·2†	52·0	—4·6	27·9	—1·5	39·9	—3·1	24·1	60·9	10th	16·3	7th
	Chaman	4,311	25·801	—·038	25·763	25·917	29th	25·646	10th	36·0	38·4‡	54·1	—1·4	35·1	—1·8	44·6	—1·6	19·0	65·0	19th	26·1	6th
	Kalat	6,630	23·810		23·772	23·882	29th	23·681	10th	29·9	37·5§	51·4	—5·3	26·3		38·8		25·1	59·8	19th	12·9	6th
	Dalbandin	2,772	27·290		27·253	27·435	29th	27·149	19th	38·2	39·5‡	62·9		33·1		48·0		29·8	75·4	10th	25·0	2nd
	Pasni		30·135		30·095	30·209	16th	30·014	10th	62·0	58·0	79·4		49·3		64·4		30·1	85·3	5th	40·2	14th
	Panjgur		26·893		26·848	26·989	16th	26·742	10th	41·8	41·4‖	63·7		38·2		51·4		26·5	72·6	20th	28·4	14th
	Bobat		27·023		26·981	27·210	29th	26·908	19th	41·1	37·2¶	67·9		27·7		47·8		40·2	77·5	2nd & 5th	19·0	13th
	Seistan (*c*)		28·423			28·640	28th & 29th.	28·240	19th	36·1	37·0**	57·8		32·6		45·2		25·2	67·5	20th	25·9	30th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·524	—·007	24·500	24·626	28th	24·396	13th	35·1	34·5††	50·2	—4·3	30·5	—2·3	40·3	—3·3	19·7	61·4	30th	23·5	15th
	Cherat	*4,256*	25·869	+·051	25·837	25·978	7th	25·746	13th	43·2	36·9‡‡	49·2	—5·7	40·3§§	—2·3	44·8§§	—4·0	8·9	58·6	29th	31·4	15th
	Drosh (*c*)		25·263			25·375	7th	25·125	5th, 11th & 13th.	34·6	34·2‖‖	44·1	—9·0	32·2	—3·5	38·1	—6·3	11·9	53·1	1st, 3rd & 4th.	27·2	17th
	Murree	6,333	23·880	—·032	23·848	24·000	28th	23·723	13th	38·9	34·7***	45·7	—6·4	36·1	—2·5	40·9	—4·5	9·6	56·8	3th	27·1	15th
	Simla	7,232	23·159	+·005	23·121	23·292	28th	23·067	13th	39·9	34·5¶¶ ***	46·9	—3·0	37·0	—2·3	42·0	—2·7	9·9	61·5	30th	29·1	14th
	Chakrata	7,072	23·422	?	23·382	23·531	28th	23·252	22nd	43·6	37·0	53·4	—2·0	37·9	—1·4	45·6	—1·7	15·5	69·3	29th	30·3	18th
	Mukteswar	7,592	22·903	+·011	22·862	23·003	29th	22·834	16th	41·5	34·6¶	50·8	—3·6	34·7	—3·5	42·8	—3·5	16·1	64·5	30th	26·8	17th
	Darjiling	7,432	23·003	—·012	22·958	23·067	30th	22·931	17th	39·7	35·9§§	50·1	+0·9	35·5	—1·2	42·9	—0·1	14·6	57·3	31st	29·9	18th
	Shillong	4,920	25·233	+·013	25·185	25·297	3rd	25·154	9th	49·6	43·3	61·9	—0·3	38·2	—1·0	50·0	—0·7	23·7	72·9	3rd	30·1	18th
	Cherrapunji ***	4,309	25·775	+·005	25·726	25·830	3rd	25·708	9th	55·3	48·7	62·9	+0·7	47·0	—0·4	55·0	+0·1	15·9	67·7	13th & 14th.	38·8	21st
	Netarhat		26·233		26·183	26·331	17th	26·210	27th	57·1	46·0	61·8		?		?		?	69·7	1st	?	?
	Maymyo	3,546	26·521	+·006	26·466	26·597	30th	26·472	9th	55·3	54·6	70·1	+0·5	47·5	+4·9	58·8	+2·7	22·6	73·6	3rd	37·0	27th
	Pachmarhi	3,528	26·582	—·003	26·529	26·631	28th	26·510	9th	53·9	49·0	70·8	+0·2	46·5	+0·7	58·6	+0·5	24·3	78·0	30th	38·1	9th
	Mount Abu	3,945	26·176	+·012	26·126	26·237	29th	26·071	12th	58·1	46·7	65·5	—2·8	51·3	—1·7	58·4	—2·3	14·2	75·0	31st	43·4	17th
	Mercara	3,781	26·295	+·011	26·228	26·342	20th	26·228	9th	61·5	58·7	75·3	—0·2	57·8	+0·1	66·6	—0·1	17·5	79·2	19th	49·8	10th
	Ootacamund	*7,327*	23·112	+·032	23·048	23·152	20th	23·052	9th	56·2	49·6	65·0	+0·7	45·2	+0·9	55·1	+0·8	19·8	69·4	31st	36·0	23rd
	Kodaikanal	7,688	22·871	+·011	22·806	22·912	4th & 20th.	22·800	9th	54·1	48·9	60·9	—1·5	47·9	+0·3	54·4	—0·6	13·0	67·8	31st	41·3	23rd
	Extra India.																					
	Singapore(*a*)	10	29·869	—·061	29·800	29·917	24th	29·828	13th	83·2		88·3	+2·4	74·4	+1·8	81·3	+2·1	13·9	91·5	15th & 16th.	72·0	1st
	Penang (*a*)	17	29·816	—·114	29·758	29·878	3rd	29·647	12th	82·3		89·3	+1·4	73·0	—0·7	81·1	+0·3	16·9	93·0	5th	68·0	19th
	Trincomalee	99	29·885	+·006	29·914	29·967	20th	29·780	11th	76·6	73·9	82·5	—0·5	74·5	+0·3	78·5	—0·1	8·0	87·9	1st	71·5	11th
	Colombo	24	29·956	+·005	29·906	30·009	20th	29·888	12th	73·7	71·8	86·1	—0·8	72·7	—0·2	79·4	—0·5	13·4	89·1	21st	69·1	22nd & 29th.
	Hambantota	64	29·913		29·904	29·984	20th	29·842	9th	73·5	71·9	84·8		72·6		78·7		12·2	88·6	12th	68·6	23rd
	Minicoy	7	29·999			30·050	25th	29·945	13th													
	Amini Divi	*13*	29·991	+·006	29·932	30·052	25th	29·930	13th	82·4	75·8	87·3	+1·5	75·3	+1·7	81·3	+1·6	12·0	89·8	12th	70·5	8th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,567	21·356	—·208	24·311	24·426	4th	24·262	26th & 27th.	45·7	42·2	60·3	0	43·3	+9·2	51·8	+4·6	17·0	63·8	19th	39·6	22nd

N.B.—Elevations in italics indicate barometrical determinations.

(*a*) 9 hrs. observations.

(*c*) Aneroid.

NOTE.—The barometric readings are not reduced to sea-level in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 13 days.
† " 12 "
‡ " 20 "
§ " 11 "
‖ " 23 "
¶ " 22 "
** " 19 "
†† " 16 "
‡‡ " 26 "
§§ " 30 "
‖‖ " 10 "

B—*continued.*

at 214 stations in India, etc., in December, 1918—*continued.*

Wind direction. Number of winds from: Calm	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Wind velocity. Mean velocity, miles per hour.	Normal.	Departure from normal.	Wind steadiness. Actual percentage.	Departure from normal.	Hygrometry, 8 hrs. Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Cloud. Mean cloud amount at 8 hrs.	Departure from normal.	Rainfall. Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	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	54	55
																															Baluchistan.
29	0	0	0	1	0	1	0	0	S		1·4			b		76*		·167*		2·9		2		0·53	0·39	+0·14	0·53	0·39	+0·14	0·26	Fort Sandeman.
22	1	1	1	2	3	0	0	1	S 49° E	S 7° E	1·6	1·7	−0·1	10	+ 1	83†		·200†		4·0	+0·9	7	+4·8	2·40	0·92	+1·48	2·40	0·92	+1·48	0·95	Quetta.
6	1	0	11	9	2	0	1	1	S 67° E	S 52° E	3·9	4·9	−1·0	56	−16	73‡		·188‡		5·3	+1·5	6	+3·2	2·86	1·08	+1·78	2·86	1·08	+1·78	1·24	Chaman.
30	0	0	0	0	0	1	0	0	S 45° W	S 24° W	3·9			3	−44	91§		·215§		3·8		3	+0·4	1·27	1·04	+0·23	1·27	1·04	+0·23	0·70	Kalat.
16	5	5	3	1	0	0	0	1	N 38° E		2·6			37		84‡		·223‡		3·8		2		1·27	0·38	+0·89	1·27	0·38	+0·89	0·65	Dalbandin.
3	9	3	3	0	0	0	4	9	N 17° W		3·6			59		77		·436		1·1		0		0	0·71	−0·71	0	0·71	−0·71	0	Pasni.
5	0	12	9	2	0	1	2	0	N 68° E		5·0			56		76‖		·231‖		4·7		1		0·61			0·61			0·61	Panjgur.
0	0	0	0	0	0	15	15	1	S 70° W		3·1			92		59¶		·161¶		1·6		4		1·66	0·80	+0·86	1·66	0·80	+0·86	0·60	Robat.
23	2	0	0	0	0	0	0	6	N 34° W		2·8			23		71§§		·189		3·2		1		0·37			0·37			0·22	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		0·7			(a)		** 71		** ·161		5·1	+1·7	5	+1·7	1·77	1·21	+0·56	1·77	1·21	+0·56	0·65	Para Chinar.
15	5	0	0	0	0	0	0	11	N 31° W	N 13° W		9·6		49	−26	†† 54	+ 8	†† ·147	+·004	3·8	+0·3	4	+2·3	1·14	1·35	−0·21	1·14	1·35	−0·21	0·70	Cherat.
31	0	0	0	0	0	0	0	0	Calm		0·8			(a)		‡‡ 83		‡‡ ·174		6·2	+2·2	5	+2·1	1·47	1·01	+0·46	1·47	1·01	+0·46	0·62	Drosh.
6	3	4	4	11	2	1	0	0	S 71° E	S 84° E	4·4	5·	−0·8	49	+20	§§ 57		§§ ·140		4·2	+0·4	5	+2·4	2·26	1·49	+0·77	2·26	1·49	+0·77	1·10	Murree.
																‖‖ 46		‖‖ ·117		2·9	−0·7	1	−1·1	0·34	1·21	−0·87	0·34	1·21	−0·87	0·22	Simla.
13	0	12	4	0	0	2	0	0	N 58° E	N 28° E	2·8	3·7	−0·9	43	+ 6	50¶	+ 1	¶ ·139	+·008	2·6	−0·1	2	−0·3	1·16	1·31	−0·15	1·16	1·31	−0·15	0·60	Chakrata.
3	0	2	12	2	0	1	9	2	N 79° E		5·8			13		46	+ 3	*** ·117	+ 002	3·4	+0·6	1	−0·8	0·31	0·78	−0·47	0·31	0·78	−0·47	0·19	Mukteswar.
20	1	1	5	0	1	2	0	1	E	S 89° E	1·8	2·1	−0·3	12	−29	71	− 5	·171	−·024	2·1	−1·0	0	−0·7	0·11	0·28	−0·17	0·11	0·28	−0·17	0·09	Darjiling.
27	0	1	1	1	0	1	0	0	S 66° E		1·0			7		60	− 0	·211	−·029	1·8	+0·2	0	−0·6	0	0·23	−0·23	0	0·23	−0·23	0	Shillong.
5	1	8	9	0	0	1	2	1	N 60° E		†† 2·4			48		62	− 2	·269	+·002	4·4	+2·8	0	−0·8	0·05	0·42	−0·37	0·05	0·42	−0·37	0·03	Cherrapunji.
0	6	0	0	0	0	0	3	22	N 41° W		3·1			94		39		·183		0		6		0			0			0	Netarhat.
27	0	0	0	1	0	1	2	0	S 56° W		0·6			7		96	+ 6	·428	+·056	5·7	+3·1	2	+1·3	1·00	0·64	+0·36	1·00	0·64	+0·36	0·86	Maymyo.
18	0	1	4	2	2	2	1	1	S 42° E	S 52° E	1·5	2·0	−0·5	13	+ 3	71	+ 9	·297	−·008	1·1	−0·7	0	−0·8	0·06	0·51	−0·45	0·06	0·51	−0·45	0·06	Pachmarhi.
14	5	6	2	0	1	0	1	2	N 22° E	N 8° E	3·0	3·0	0	37	+23	40	− 2	·195	−·021	2·6	+1·1	0	−0·4	0	0·14	−0·14	0	0·14	−0·14	0	Mount Abu.
0	4	16	10	1	0	0	0	0	N 57° E	N 72° E	3·1	4·7	−1·6	89	+ 6	85	+ 2	·465	+·003	6·0	+1·0	1	−0·2	0·82	0·78	+0·04	0·82	0·78	+0·04	0·67	Mercara.
8	0	3	4	10	6	0	0	0	S 50° E		2·5			56		64	+ 5	·293	+·024	5·4	+1·8	2	−2·1	0·71	2·16	−1·45	0·71	2·16	−1·45	0·32	Ootacamund.
0	1	8	7	8	1	0	0	6	N 73° E		9·3			49		72	+10	·299	+·045	5·8	+1·9	9	+3·1	4·85	5·02	−0·17	4·85	5·02	−0·17	0·95	Kodaikanal.
																															Extra India.
10	2	12	0	0	0	1	0	6	N 14° E					46						6·6	+1·5	10	−4·2	9·33	11·14	−1·81	9·38	11·14	−1·81	3·39	Singapore.
0	21	6	0	0	1	0	0	3	N 4° E					86								16	+5·4	12·83	6·10	+6·73	12·83	6·10	+6·73	6·38	Penang.
5	2	7	6	1	0	4	3	3	N 35° E	N 23° E	5·4	5·3	+0·1	23	−16	88	+ 1	·800	−·023	8·0	+3·3	17	+3·0	14·81	11·27	+0·54	14·81	14·27	+0·54	3·11	Trincomalee.
11	9	10	0	0	0	0	0	1	N 21° E	N 33° E	3·2	6·1	−2·9	59	−19	91	+10	·755	−·030	7·7	+3·3	10	+2·9	4·07	5·55	−1·48	4·07	5·55	−1·48	1·26	Colombo.
1	14	12	0	0	0	0	2	2	N 12° E		5·8			82		92		·757		4·8		6		2·21	5·57	−3·36	2·21	5·57	−3·36	0·52	Hambantota.
3	8	8	5	3	1	0	0	3	N 40° E	N 42° E	3·6	4·5	−0·9	55	− 5					6·2	+2·9	6	+2·5	5·26	3·59	+1·67	5·26	3·59	+1·67	2·20	Mimicoy.
2	8	12	2	2	0	1	1	3	N 25° E		3·4			61		73	+ 2	·891	+·020	4·6	+1·0	4	+2·2	5·48	1·13	+4·35	5·48	1·13	+4·35	3·41	Amini Divi.
																									0						Gvanlse.
																									0·05						Pharijong.
30	0	2	0	0	0	0	0	1	N 27° E		4·8			6		77	+ 2	·236	−·018	0·5	−1·5	1	−0·9	0·36	1·12	−0·76	0·36	1·12	−0·76	0·36	Gangtok.

* Mean of 13 days.
† " " 12 "
‡ " " 20 "
§ " " 11 "
‖ " " 23 "
¶ " " 22 "

** Mean of 16 days.
†† " " 26 "
‡‡ " " 18 "
§§ " " 19 "
‖‖ " " 17 "
¶¶ " " 27 "

*** Mean of 30 days.
(a) Indeterminate.

Tabl

(2) Abstract of observations taken at 8 hr

Number of Sub-division.	Station.	Height of bar-ometern above sea-level in feet.	Pressure, 8 hrs., in inches.							Temperature of air.												
			Mean 8 hrs. pressure reduced to 32°.	Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of month.	Date.	Lowest pressure of month.	Date.	Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.
1	2	3	4	5	6	7	8	9	10	11.	12	13	14	15	16	17	18	19	20	21	22	23
	Extra India—*concld.*																					
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·687	—·103		26·140	26th	25·450	19th	17·0		31·1	−6·7	14·0	−2·9	22·5	−4·8	17·1	40·3	11th	4·3	28th
	Kabul (*c*)		24·248	—·142		24·390	29th	24·100	11th	27·6	33·3*	47·4	−6·7	25·5	−0·4	36·4	−3·5	21·9	63·8	1st	13·2	23rd
	Meshed	3,104																				
	Jask	13	30·128	+·009	30·095	30·211	29th	29·988	26th	65·6	61·1	78·1	+0·5	62·2	−1·8	70·2	−0·7	15·9	81·5	11th	56·1	31st
	Muscat	20	30·116	+ 002	30·085	30·208	16th	30·035	10th	69·1	62·4	79·9	+3·0	67·0	−3·3	73·5	−0·1	12·9	83·2	21st	62·1	19th
	Bushire	14	30·124	+·001	30·100	30·254	21st	29·925	7th	58·4	54·8	69·0	+0·5	55·3	+0·1	62·2	+0·3	13·7	78·2	8th	49·0	13th
	Busrah	25	30·162	−·032	30·157	30·312	29th	29·902	7th	51·8	50·1	65·9	+2·6	47·5	−2·1	56·7	+0·3	18·4	77·9	3rd	37·8	13th
	Kerman (*c*)																					
	Ispahan (*c*)	*5,817*	24·294	+·004		24·420	29th	24·130	7th	31·1	36·3†	51·6	−0·2	28·4	−0·3	40·0	−0·3	23·2	64·4	1st	21·7	29th
	Tehran (*c*)	*4,002*	25·855	−·075		26·200	29th	25·600	7th	36·4	37·1†‡	49·1	−2·2	32·4	−1·1	40·8	−1·7	16·7	60·7	3rd	23·2	30th
	Baghdad (*b*)	120	30·023	− 040		30·243	10th	29·758	7th	47·1	45·0	63·1	0	45·1	+2·8	54·3	+1·4	17·7	76·9	1st	34·2	28th
	Beirut (*a*)																					
	Aden	94	29·994	+·002	30·022	30·055	15th	29·940	1st	76·0	70·8	80·6	−0·9	73·6	+0·4	77·1	−0·3	7·0	83·2	10th & 11th	70·3	17th
	Zanzibar	72	29·969	+·041	29·967	30·026	7th	29·917	28th	81·8	77·2	86·0	+0·3	78·9	−0·2	82·5	+0·1	7·1	87·9	20th	75·8	31st

N.B.—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.

* Mean of 3 days. † Mean of 6 days. ‡ Mean of 15 days.

(*a*) 8¼ hrs. observations. (*b*) 7 hrs. observations. (*c*) Aneroid

B—*concluded.*

at 214 stations in India, etc., in December, 1918—*concluded.*

Wind direction.											Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.								Station.
Number of winds from																													
Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Resultant direction.	Normal direction.	Mean velocity, miles per hour.	Normal.	Departure from Normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December, 1918.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	
23	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	54	55
																															Extra India—*concld.*
																									0						Gartok.
											0·3	0·7	−0·4							5·6	+1·4	2	+1·8	1·00	0·09	+0·91	1·00	0·09	+0·91	0·50	Kashgar.
0	2	0	0	0	1	12	12	4	S 78° W	S 56° W				74	+6	87*		·175*		6·8	+3·7	0	−1·5	0	0·43	−0·43	0	0·43	−0·43	0	Kabul.
																									0·72						Meshed.
0	13	8	7	0	0	0	1	2	N 27° E	N 23° E	6·8	7·5	−0·7	72	− 1	76	+ 4	·483	+·030	2·1	−0·7	1	−1·1	0·53	1·14	−0·61	0·53	1·14	−0·61	0·53	Jask.
23	0	0	0	0	1	0	2	5	N 65° W	S 74° W	2·2	2·9	−0·7	20	−17	67	− 1	·476	−·061	2·0	−0·5	2	+0·7	1·52	0·61	+0·91	1·52	0·61	+0·91	0·98	Muscat.
4	8	5	3	2	0	0	0	9	N 5° E	N 63° E	6·5	4·7	+1·8	53	− 5	78	− 5	·386	−·012	5·1	+0·6	4	−0·1	2·80	3·06	−0·26	2·80	3·06	−0·26	1·30	Bushire.
3	1	4	1	4	2	3	12	1	S 76° W		3·5			26		88		·347		6·4		5	+2·5	3·55	1·18	+2·37	3·55	1·18	+2·37	1·35	Busrah.
																															Kerman.
31	0	0	0	0	0	0	0	0	Calm	S 85° W	0·7	1·9	−1·2	(*a*)		71†		·176†		3·2	−0·1	2	+0·2	1·09	0·82	+0·27	1·09	0·82	+0·27	0·75	Ispahan.
15	9	7	0	0	0	0	0	0	N 20° E	N 11° E	3·2	2·0	+1·2	48	+14	70‡		·179‡		5·1	+1·1	1	−2·8	0·42	1·29	−0·87	0·42	1·29	−0·87	0·21	Tehran.
5	1	3	2	1	2	6	6	5	S 88° W	N 3° W	4·8	2·2	+2·6	28	+ 8	82	+ 5	·270	+·027	5·1	+1·5	3	−0·1	1·32	1·18	+0·14	1·32	1·18	+0·14	0·62	Baghdad.
																															Beirut.
5	6	17	2	0	0	0	0	1	N 35° E	N 76° E	8·8	9·4	−0·6	76	+ 4	76	+ 2	·680	+·017	5·0	+0·3	0	−0·5	0	0·11	−0·11	0	0·11	−0·11	0	Aden.
5	3	8	2	8	2	3	0	0	S 85° E	N 85° E	2·4	4·6	−2·2	36	− 5	81	− 1	·869	−·007	5·5	−0·4	13	+4·5	6·79	5·47	+1·32	6·79	5·47	+1·32	1·38	Zanzibar.

* Mean of 3 days.
† „ 6 „
‡ „ 15 „

(*a*) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in December, 1918.

Tabl

Abstract of observations taken at 8 hrs. at 60 fourt

Number of Sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	52·9	51·2	74·6	−0·3	45·9	+1·7	60·3	+0·7	28·7	83·3	2nd	38·1	21st	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	61·0	56·3	76·1	−1·9	44·8	−0·2	60·5	−1·1	31·3	81·0	9th & 12th.	36·6	20th & 21st.	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	54·9	54·4	80·6	+0·3	48·7	−1·6	64·7	−0·7	31·9	86·6	7th	40·9	19th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	51·1	50·1	78·2	+9·4	47·7	+0·2	62·9	+4·8	30·5	83·7	4th	41·2	20th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	53·1	51·5	76·0	+1·1	45·8	−0·6	60·7	+0·3	30·7	80·2	12th	39·0	19th & 21st.	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	54·4	53·0	73·5	+2·4	46·3	...	59·9	...	27·2	79·6	9th	38·2	20th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	57·4	56·7	79·5	−0·1	?	...	?	...	?	86·0	31st	?	?	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	54·5	53·5	75·0	+0·3	49·0	−0·8	62·0	−0·3	26·0	79·5	3rd	40·8	21st	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	56·4	54·9	74·4	...	48·2	...	61·3	...	26·2	77·9	7th	39·0	19th	...	...	...	...	...	...	...	...	...	...	...
	Messa	63·9	59·8	79·3	−2·2	45·1	−0·4	62·2	−1·3	34·2	84·3	7th	38·8	22nd	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	51·2	49·2	77·1	+0·9	41·7	−6·4	59·4	−2·7	35·4	82·1	2nd	35·3	20th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	63·8	58·7	79·0	−1·0	51·9	−2·2	65·5	−1·6	27·1	84·8	4th	46·9	19th & 20th.	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	66·4	59·1	77·3	−0·3	50·3	−1·2	63·8	−0·7	27·0	82·3	1st,	43·5	26th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	61·4	56·8	79·6	−1·3	54·1	+1·0	66·9	−0·1	25·5	83·5	1st	45·5	19th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	48·5	47·4	82·2	−2·4	40·5	−2·9	61·3	−2·7	41·7	90·1	12th	34·9	21st	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	62·3	54·9	76·7	−1·2	43·9	−3·3	60·3	−2·3	22·8	82·1	9th & 12th.	37·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	65·0	56·7	77·1	−1·0	49·2	−3·0	63·1	−2·0	27·9	81·1	2nd, 6th & 12th.	43·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Mean of 26 days.

C.

and fifth class stations in India, etc., in December, 1918.

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				II.—Assam.
...	...	...	...	...	88	− 4	·359	− ·006	...	...	0	− 1·2	0	0·47	− 0·47	0	0·47	− 0·47	0	Bishnath.
...	...	...	...	...	73	−13	·394	+ ·015	...	...	0	0	0	0·23	− 0·23	0	0·23	− 0·23	0	Borjuli.
...	...	...	...	...	97	+ 1	·427	− ·020	...	...	1	0	0·28	0·46	− 0·18	0·28	0·46	− 0·18	0·28	Chandkhira.
...	...	...	...	...	93	− 2	·355	− ·030	...	...	0	− 2·0	0·10	0·53	− 0·43	0·10	0·53	− 0·43	0·06	Doom Dooma.
...	...	...	...	...	89	− 4	·362	− ·001	...	...	0	− 1·7	0·02	0·57	− 0·55	0·02	0·57	− 0·55	0·02	Dikom.
...	...	...	...	...	91	0	·388	− ·041	...	...	0	− 0·7	0	0·54	− 0·54	0	0·54	− 0·54	0	Golaghat.
...	...	...	...	...	96	+ 4	·458	+ ·016	...	...	0	− 1·5	0	0·52	− 0·52	0	0·52	− 0·52	0	Hailakandi.
...	...	...	...	...	93	− 2	·400	− ·024	...	...	1	− 0·5	0·28	0·66	− 0·38	0·28	0·66	− 0·38	0·28	Jorehat.
...	...	...	...	...	91	...	·417	...	...	...	0	− 0·5	0·06	0·30	− 0·24	0·06	0·30	− 0·24	0·06	Lumding.
...	...	...	...	...	77	− 1	·461	+ ·029	...	...	0	− 1·2	0	0·54	− 0·54	0	0·54	− 0·54	0	Messa.
...	...	...	...	...	86	− 6	·327	− ·022	...	...	0	− 0·7	0	0·43	− 0·43	0	0·43	− 0·43	0	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	.	...	0	− 0·3	0	0·26	− 0·26	0	0·26	− 0·26	0	Comilla.
...	...	...	...	...	72	−12	·429	− ·075	.	...	1	− 0·2	0·13	0·44	− 0·31	0·13	0·44	− 0·31	0·13	Brahmanbaria.
...	...	...	...	...	...		...	..	...	...	0	− 0·3	0·09	0·14	− 0·05	0·09	0·14	− 0·05	0·09	Faridpur.
...	...	...	...	...	63	−20	·405	− ·043	...	...	0	− 0·7	0·07	0·33	− 0·26	0·07	0·33	− 0·26	0·07	Goalundo.
...	...	...	...	...	74	− 6	·407	− ·027	...	...	0	− 0·8	0·03	0·27	− 0·24	0·03	0·27	− 0·24	0·03	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·12	− 0·12	0	0·12	− 0·12	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0·02	0·07	− 0·05	0·02	0·07	− 0·05	0·02	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	0	0	0·06	− 0·06	0	0·06	− 0·06	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·05	− 0·05	0	0·05	− 0·05	0	Rangpur.
...	...	...	...	...	92	− 3	·316	− ·043	...	...	0	− 0·5	0	0·21	− 0·21	0	0·21	− 0·21	0	Dam Dim.
...	...	...	...	...	58	−15	·343	− ·084	...	...	0	− 0·8	0	0·38	− 0·38	0	0·38	− 0·38	0	Kalchini.
...	...	...	...	...	58	−15	·354	− ·042	...	...	0	− 0·8	0	0·37	− 0·37	0	0·37	− 0·37	0	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·13	− 0·13	0	0·13	− 0·13	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0·05	0·11	− 0·06	0·05	0·11	− 0·06	0·05	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·2	0	0·09	− 0·09	0	0·09	− 0·09	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·12	− 0·12	0	0·12	− 0·12	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0·06	0·23	− 0·17	0·06	0·23	− 0·17	0·06	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·10	− 0·10	0	0·10	− 0·10	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·1	0	0·07	− 0·07	0	0·07	− 0·07	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·16	− 0·16	0	0·16	− 0·16	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·13	− 0·13	0	0·13	− 0·13	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0·02	0·17	− 0·15	0·02	0·17	− 0·15	0·02	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0·03	0·25	− 0·22	0·03	0·25	− 0·22	0·03	Dehri.

Tabl

Abstract of observations taken at 8 hrs. at 60 four

Number of Sub-division.	Station.	Temperature of air.												Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.	Resultant direction.	Normal direction.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	V.—United Provinces of Agra and Oudh.																								
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	56·1	49·6	78·6	...	50·0	...	64·3	...	28·6	80·0	30th	43·9	11th & 19th.	21	4	5	1	0	0	0	0	0	N 36° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	70·6	68·5	84·6	...	64·1	...	74·4	...	20·5	87·2	18th	54·6	11th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	71·3	68·1	86·7	...	66·4	...	76·5	...	20·3	88·8	17th	57·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Korapat	60·0	57·5	77·9	...	53·1	...	65·5	...	24·8	83·5	13th	46·1	23rd	...	...	.	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
12	Jammu	52·6	48·6	66·9	...	48·7	...	57·8	...	18·2	77·1	29th	42·6	16th & 18th.	0	12	14	1	1	1	2	0	0	N 28° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	19·3		33·2	...	2·5	...	17·8	...	30·7	42·8	1st	−13·0	24th	16	0	0	0	10	1	0	0	4	S 39° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	60·3	53·0	75·7	−0·9	53·5*	−0·7*	64·6*	−0·8	22·2	79·5	5th	47·5	18th	...	...	...	...	...	...	...	...	..	...	...
	Kurseong	54·7	54·1	60·1	−0·4	48·6	−1·0	53·3	−0·7	13·5	66·6	4th	42·3	25th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pao	...	...	43·0	−3·4	24·7	−2·0	33·9	−2·7	18·3	52·6	29th	18·1	17th	11	1	2	2	2	0	4	6	3	N 87° W	...
	Kalimpong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	53·4	−3·6	23·4	−4·7	38·4	−4·1	30·0	64·8	10th	13·0	6th	...	...	...	...	...	...	...	..	...	...	...

* Mean of 25 days.

C—*continued.*

and fifth class stations in India, etc., in December, 1918—*continued.*

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·3	0	0·44	−0·44	0	0·44	−0·44	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	1	−0·6	0·13	0·81	−0·68	0·13	0·81	−0·68	0·13	Dehra Dun.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·10	−0·10	0	0·10	−0·10	0	Udaipur.
																				XII.—Central Provinces.
1·4	...	...	29	...	61	...	·281	...	2·6	...	1	...	0·48	0·62	−0·14	0·48	0·62	−0·14	0·15	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	2	+1·3	0·83	0·30	+0·53	0·83	0·30	+0·53	0·42	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	11	+5·9	6·50	4·26	+2·24	6·50	4·26	+2·24	2·33	Tinnevelly.
...	...	...	...	...	90	...	·677	...	3·5	...	0	−0·5	0	0·27	−0·27	0	0·27	−0·27	0	Anantapur.
...	...	...	...	...	84	...	·651	...	0·4	...	0	−0·7	0·07	0	+0·07	0·07	0	+0·07	0·04	Guntur.
..	...	...	...	...	86	...	·448	...	...	...	0	...	0·09	...	...	0·09	...	...	0·09	Korapat.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	11	+3·1	10·08	7·56	+2·52	10·08	7·56	+2·52	3·44	Car Nicobar.
																				Kashmir.
...	...	...	71	...	74	...	·297	...	3·8	...	2	+0·3	1·74	0·67	+1·07	1·74	0·67	+1·07	1·30	Jammu.
...	...	...	...	...	...	...	...	...	...	...	11	+4·2	8·81	5·83	+2·98	8·81	5·83	+2·98	2·77	Sonamarg.
...	...	...	23	...	...	...	...	...	6·7	...	4	+1·9	1·34	0·79	+0·55	1·34	0·79	+0·55	0·60	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	−0·7	0·21	0·68	−0·47	0·21	0·68	−0·47	0·15	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	59	0	·308	−·037	...	...	0	−0·8	0·02	0·47	−0·45	0·02	0·47	−0·45	0·02	Panighatta.
..	...	...	...	...	96	+23	·413	+·146	...	...	0	−1·2	0	0·56	−0·56	0	0·56	−0·56	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	3	...	0·80	1·40	−0·60	0·80	1·40	−0·60	0·45	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	6	...	1·26	0·60	+0·66	1·26	0·60	+0·66	0·46	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·17	...	...	2·17	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·31	...	...	0·31	...	...	0·27	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	2	+0·1	0·27	1·02	−0·75	0·27	1·02	−0·75	0·15	Mussoorie.
...	...	...	20	...	...	...	...	...	4·8	+0·8	1	−1·5	0·39	0·77	−0·38	0·39	0·77	−0·38	0·12	Poo.
...	...	...	...	...	...	...	...	...	...	...	5	+2·7	1·58	1·05	+0·53	1·58	1·05	+0·53	0·40	Kailang.
..	...	...	...	...	...	...	...	...	4·0	...	6	+3·3	2·78	1·25	+1·53	2·78	1·25	+1·53	1·15	Pishin.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

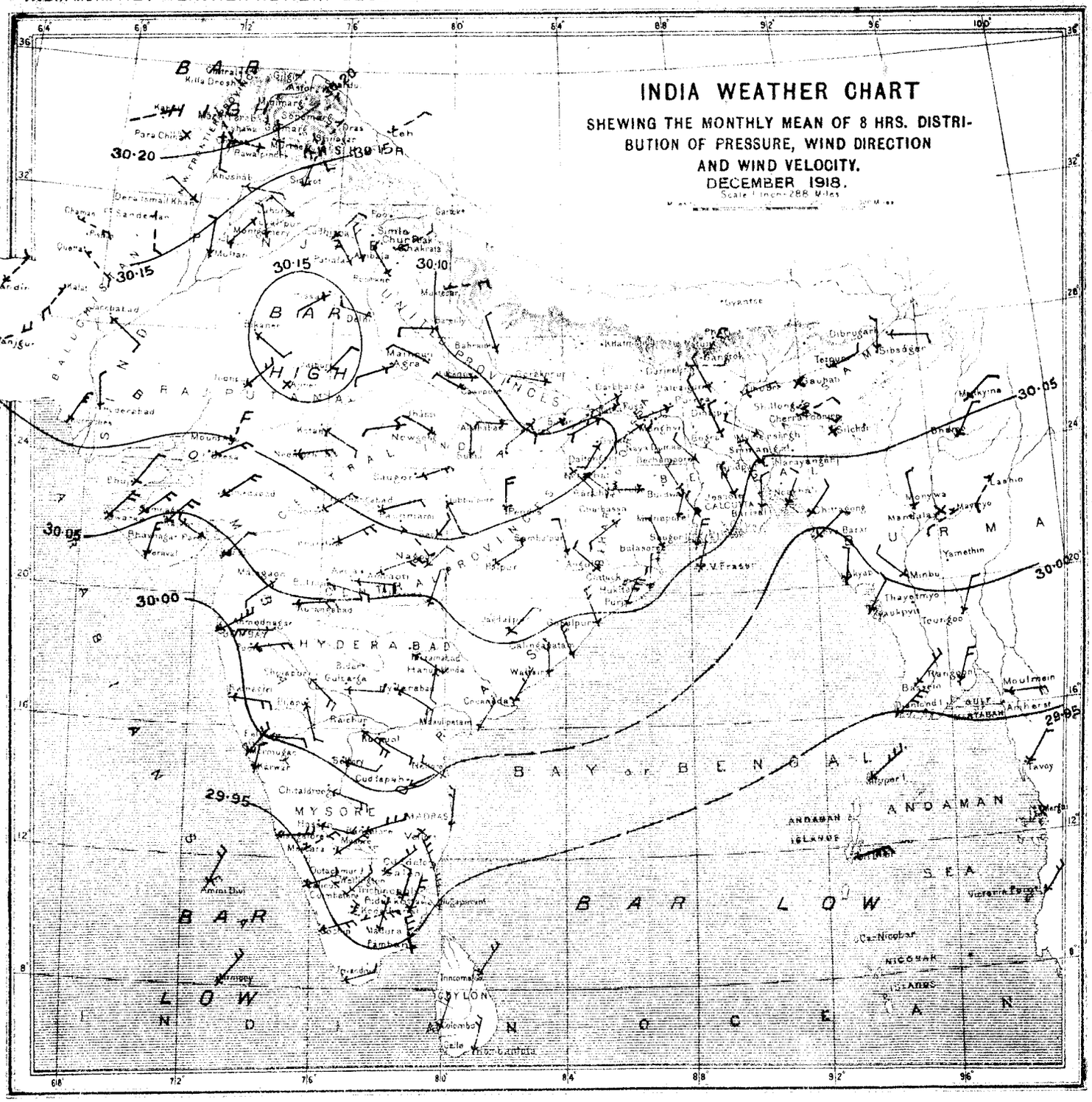
Number of Sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	Number of winds from									Resultant direction.	Normal direction.
															Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	N. W.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	Extra India.																								
	Ahwaz	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chumbi. . . .	23·1	...	46·3	...	17·6	...	31·9	...	28·7	50·2	16th	11·2	2nd	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	58·8	54·5	76·0	...	49·9	...	63·0	...	26·1	86·0	2nd & 4th	42·0	11th & 29th.	0	15	0	0	0	12	3	0	1	N 59° W	...
	Kirmanshah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amara	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Shushtar . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kurna	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mohammerah . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

—*concluded.*

nd fifth class stations in India, etc., in December, 1918—*concluded.*

WIND VELOCITY.			WIND STEADINESS.		HYGROMETRY, 8 HRS.				CLOUD.		RAINFALL.									STATION.
Mean velocity, miles per hour.	Normal.	Departure from normal.	Actual percentage.	Departure from normal.	Mean humidity at 8 hrs.	Departure from normal.	Mean vapour tension at 8 hrs. in inches of mercury.	Departure from normal.	Mean cloud amount at 8 hrs.	Departure from normal.	Number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall from 1st to 31st December 1918.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ahwaz.
...	...	...	...	...	...	...	...	...	0·1	...	0	...	0	0·11	—0·11	0	0·11	—0·11	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	17	+6·6	11·62	6·88	+4·74	11·62	6·88	+4·74	1·72	Pemba.
...	...	...	10	...	80	...	·572	...	...	...	3	...	2·91	...	...	2·91	...	...	1·41	Abadan.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	Kirmanshah.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Amarah.
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Shushtar.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Kurna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Mohammerah.

SGPI-21-407DGO-3-4-22—325.



The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison with the normal distribution of pressure.

The mean 8 hrs. wind directions of the month are shewn by means of arrows flying with the wind, and are calculated by means of Lambert's formula applied to the winds as given in Table B of the 8 hrs. observations. The mean wind directions for the hill stations are indicated by broken arrows to distinguish them from the wind arrows for the plain stations. The mean velocity of the winds during the month is shewn by the following notation:—

Velocity of	0 to 2	miles per hour	...	one feather added to the wind arrow.
,, ,,	2 to 5	,, ,, ,,	...	two feathers ,, ,, ,, ,,
,, ,,	5 to 10	,, ,, ,,	...	three ,, ,, ,, ,, ,,
,, ,,	10 to 20	,, ,, ,,	...	four ,, ,, ,, ,, ,,
	over 20	,, ,, ,,	...	five ,, ,, ,, ,, ,,

Wind strengths are based on factor 2·2 for the standard type of Beckley Robinson anemograph, instead of 3·0 as used for this plate up to December 1911 inclusive.

The chart shows the departure from normal of the mean during the month of 8 hrs. pressure by means of lines drawn for equal amounts of departure. The numbers are given in thousandths of an inch, 20 representing ·020″ or two hundredths of an inch, &c. Continuous lines indicate that the pressure was in excess by amounts indicated by the numbers attached to the lines, and broken or dotted lines that it was in defect by amounts indicated by the numbers attached to the lines. Two parallel lines near to each other, one continuous and the other broken or dotted, represent the line of no departure, the dotted line facing the area of deficient pressure or negative departures.

CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MAXIMUM TEMPERATURE.

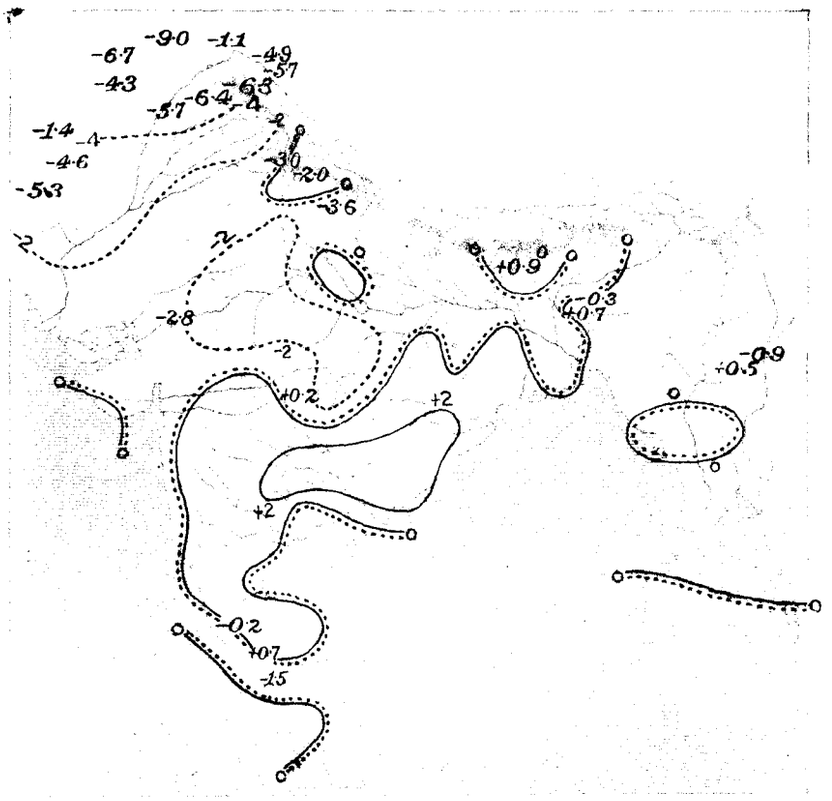


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MINIMUM TEMPERATURE.

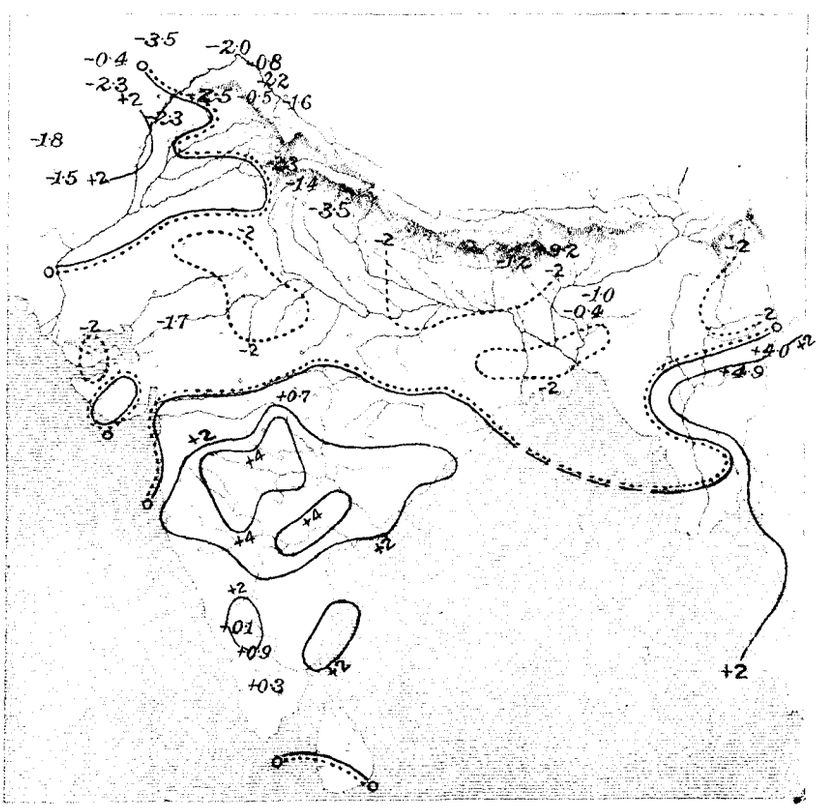


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

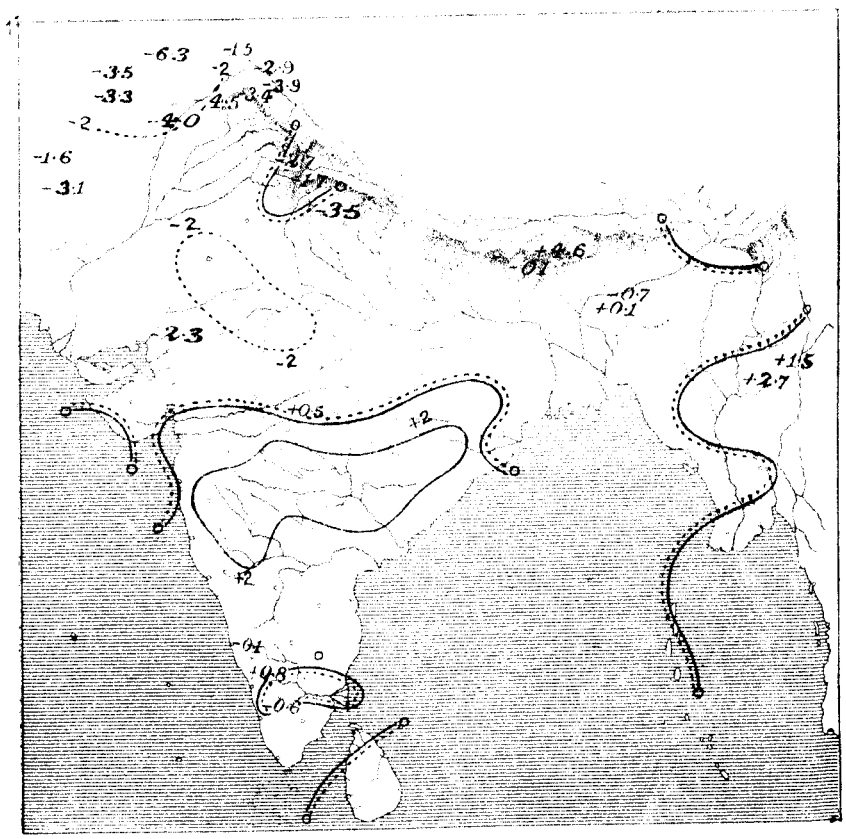


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS.

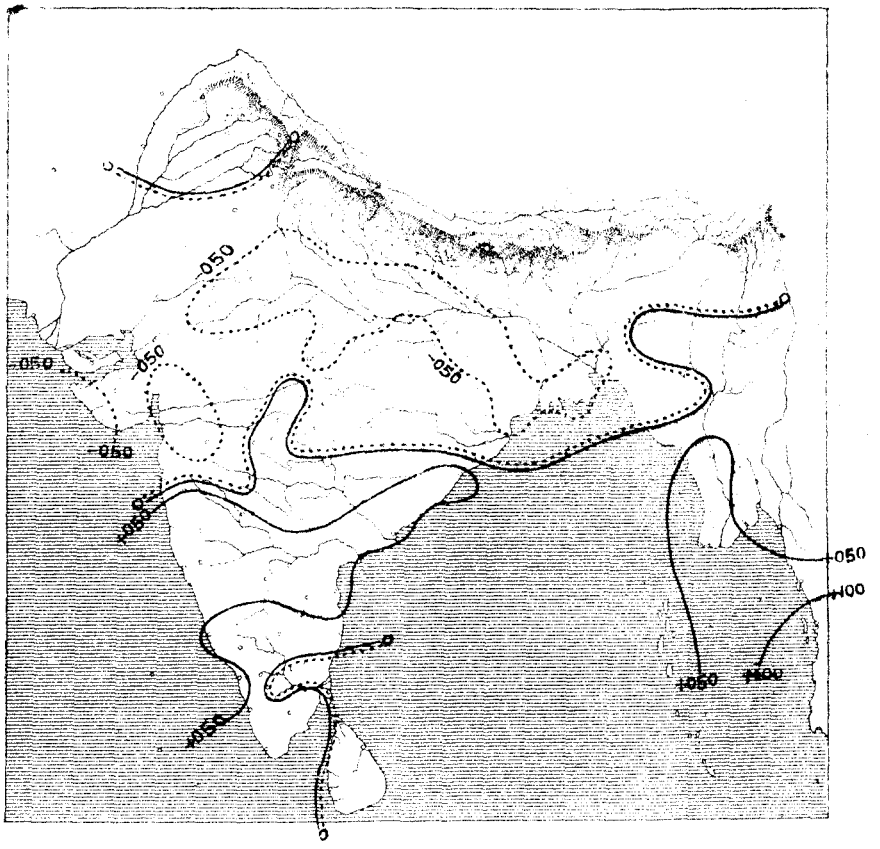


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

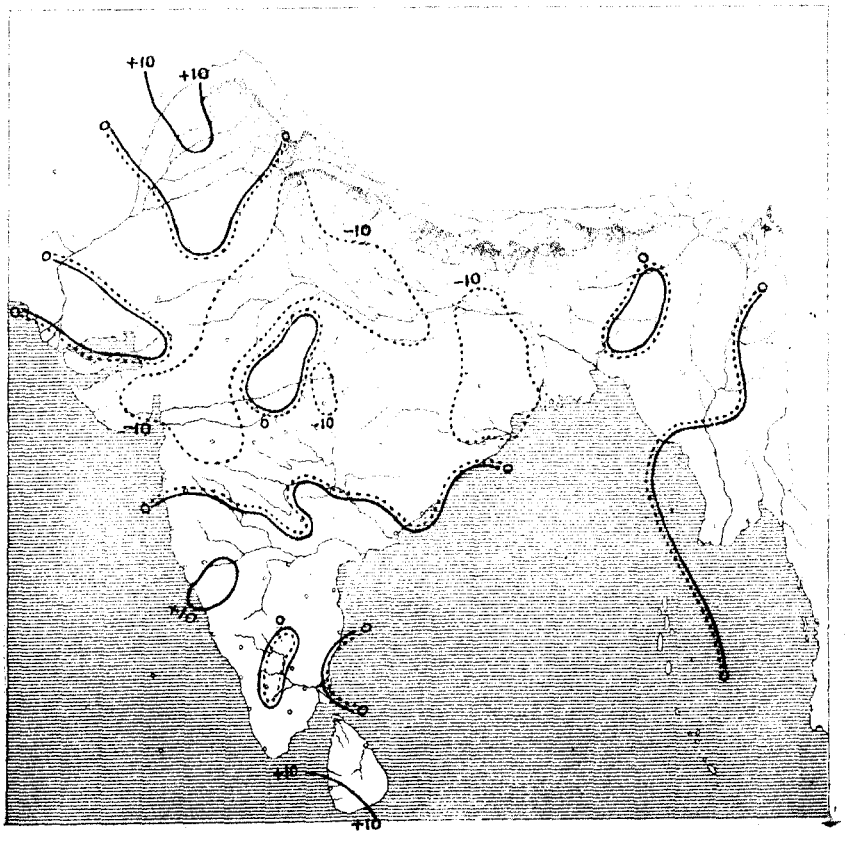


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

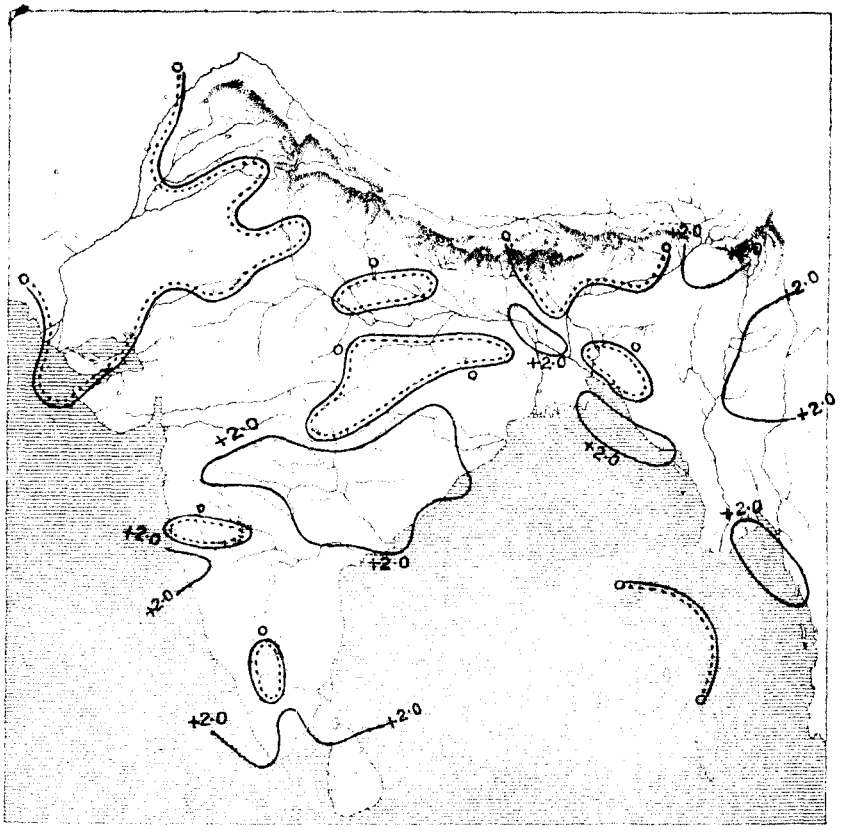
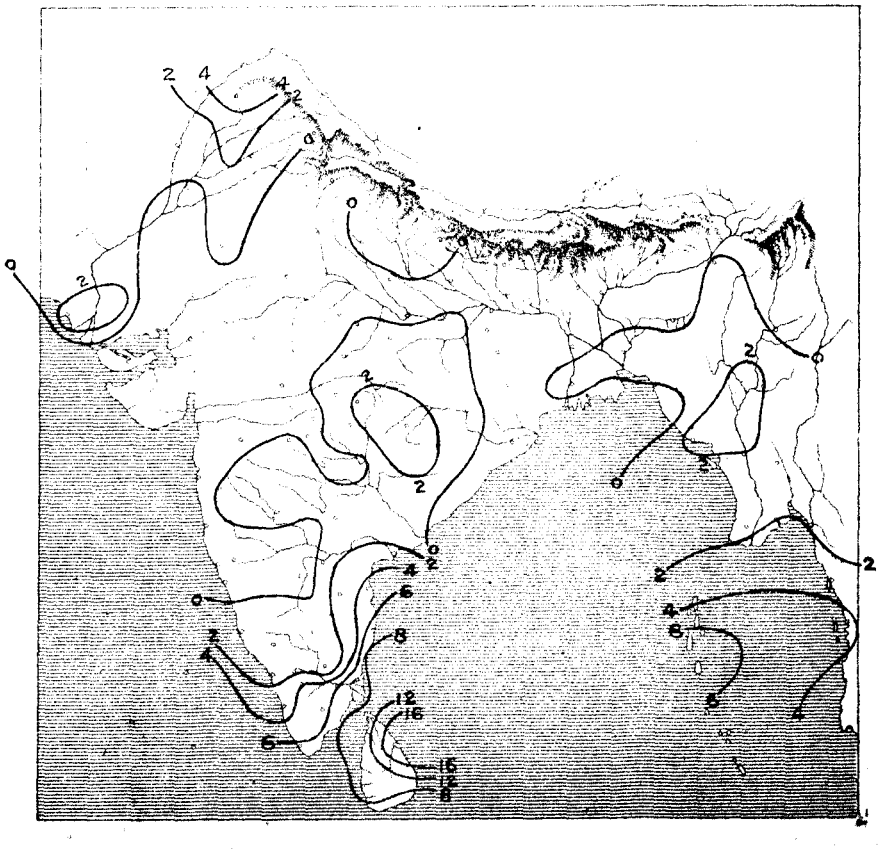


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give the departures from normal of the average actual rainfall over the divisions.

1. Bay Islands
2. Lower Burma
3. Upper Burma
4. Assam
5. Bengal
6. Orissa
7. Chota Nagpur
8. Bihar
9. United Provinces, East
10. United Provinces, West
11. Punjab, East and North
12. Do., Southwest
13. Kashmir
14. Northwest Frontier Province
15. Baluchistan
16. Sind
17. Rajputana, West
18. Rajputana, East
19. Gujarat
20. Central India, West
21. Do., East
22. Berar
23. Central Provinces, West
24. Do., East
25. Konkan
26. Bombay, Deccan
27. Hyderabad, North
28. Hyderabad, South
29. Mysore
30. Malabar
31. Madras, Southeast
32. Madras, Deccan
33. Madras Coast, North