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METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

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INTRODUCTION.

THIS review of the weather in India during the month of January, 1920, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 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. Monsoon conditions persisted in the Indian seas much longer than usual and caused extraordinarily heavy rain in the southern half of the Peninsula in the first ten days of the month, while a disturbance in the Arabian Sea at the end of the first week carried the region of heavy rain northwards to Bombay, Central India West and the Central Provinces West, an unusual occurrence at this time of the year. Unsettled conditions appeared in the Bay even as late as the 25th.

Five winter disturbances passed into northern India from the west. But, although they had given an excess of rainfall in Persia, the rainfall associated with them was below normal over the greater part of northwest India; hardly any rain fell in the United Provinces and northeast India. Upper Burma, however, received the normal amount.

The total rainfall of the month was thus largely above normal over the whole of the Peninsula and in Central India West and the Central Provinces West. It was normal or in slight excess in Upper Burma, the Punjab Southwest, the North-West Frontier Province and Rajputana East. A moderate to large deficiency was recorded over the rest of the country, no rain falling in the United Provinces East and Bihar and Orissa.

Cloud proportion was distinctly above normal in the tract of country extending from Bombay to Assam, and in Burma. Both relative and absolute humidities were above normal in Bombay and Central India, and below it in Tenasserim; relative humidity alone was in excess in the Punjab and the North-West Frontier Province, while the amount of vapour in the air was above normal in Berar, Hyderabad and Upper Burma. Maximum temperature was below normal in Kashmir, but above it in Rajputana West and Baluchistan; minimum temperature was above normal in Upper Burma, Assam and the northwest of the Peninsula.

Averaged over the plains of India as a whole barometric pressure was ·022″ above normal.

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Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar observations.*—No observations were possible on four days during the month and on one other day prominences cou'd not be photographed.

Sunspots.—Eleven new groups were recorded with a daily average of 2·9. The average life of a spot was 6·9 days as against 5·2 in the previous month. The spots were distributed in latitude as follows:—

TABLE 1.

	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	3	1	8°·8	2° & 15°
South	3	4	14°·2	6° & 18°

An extensive group of seven moderate sized spots and many small ones crossed the central meridian of the sun on January 28, when the centre of the group was also at the centre of the sun's disk. The "moderate" magnetic storms noted below on January 1-2 and 28 to 31 were probably due to the activity of this group which at its previous apparition was on the meridian on January 1 and 2.

Prominences.—66 prominences, a minute or more in height, and 18 metallic prominences were recorded. Prominences 150″ high were photographed on the 8th and 19th and this was the greatest height recorded during the month.

Magnetic disturbances.—"Moderate" disturbances were registered from 1st to 2nd, 9th to 12th, 21st to 24th and 28th to 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 Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	17·8	1	2·8
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
Jan. 8th	eP	9 04 00	...	...	...	...	...	
	F	9 07 06	...	...	...	...	...	Widening of line.
„ 9th	eP	4 39 12	...	...	...	...	...	
	F	4 43 06	...	...	...	...	...	Widening of line.
„ 12th	eP	14 17 24	...	...	...	...	...	
	F	14 21 30	...	...	...	...	...	Widening of line.
„ 22nd	eP	16 44 06	...	...	...	...	...	
	F	16 52 18	...	...	...	...	...	Widening of line.

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of January, 1920, the traces showed 9 calm days and 22 days of small disturbance.

The days of the month selected as "quiet" are the 5th, 6th, 19th, 20th 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	C
2	S	10	S	18	C	26	S
3	S	11	S	19	C	27	C
4	S	12	S	20	C	28	S
5	C	13	C	21	S	29	S
6	C	14	C	22	S	30	S
7	S	15	S	23	S	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 declination for the month, are as follows :—

Easterly declination	0° 22′ 13″.
Horizontal force	0·36919 C.G.S. unit.
Vertical force	0·17112 C.G.S. „
Inclination	24° 52′·1.
Horizontal force range . . .	0·00038 C.G.S. unit.
Horizontal force summed range . .	0·00248 C.G.S. „
Declination range	2′·2.
Declination summed range . .	10′·1.

(NOTE.—Summed range means sum without regard to sign of 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 (E—W).

TABLE 4.

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

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	REMARKS.

No disturbance was recorded during the month of January, 1920.

MUKUND V. UNAKAR,
Actg. Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

No seismic disturbance was recorded on the seismograph at the Alipore Observatory during the month of January, 1920.

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 5.

	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.
1920.		h. m. s.						
Jan. 12th	eP	13 57 36	...	...	...	...	...	
	M	13 57 54	...	36	...	...	...	
	F	13 59 48	...	...	...	...	...	

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

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity. Rossi-Forel scale.	No. of shocks.	REMARKS.
	1920.	h. m.	sec.			
Drosh . . .	Jan. 3rd	15 15	10	6	2	
„ . . .	„ 21st	11 42	4	6	1	
Salonah (Nowgong District, Assam).	„ 27th	15 32	5/6	6	1	
Borjuli (Darrang District, Assam).	„ 28th	15 04	3	5	1	

S. SITARAMAYYA,
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 7.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure, in inches.	—·042	+ ·009	+ ·013
Actual mean wind direction . .	S 67° E	N 27° E	N 15° E
Normal mean wind direction . .	S 87° E	N 28° E	N 39° W
Actual mean wind velocity (miles per diem).	144	137	113
Normal mean wind velocity (miles per diem).	187	137	107
Rainfall departure from normal, in inches	— 0·42	—3·08	+ 14·33

Depressions and cyclonic storms.

8. Five winter disturbances passed over northwest India in the course of the month, but only three of these were productive of appreciable rain and snow. The first of these three caused (on the 10th and 11th) widespread precipitation in Baluchistan, the North-West Frontier Province, Kashmir, Sind, the Punjab and the west of the United Provinces, and local rain in east Rajputana. The second crossed the northwest frontier on the 21st, and caused precipitation in the extreme north of India from the 21st till the 25th, and in Baluchistan on the 23rd. The third disturbance, which appeared on the northwest frontier on the 27th, caused fairly general and moderate rain or snow till the end of the month in northeast Baluchistan, the North-West Frontier Province, Kashmir and the Punjab and Kumaon hills, with a few falls in the Punjab plains. These disturbances did not extend eastwards into the Gangetic plain, and even in northwest India the total fall of the month was, on the whole, below normal.

Between the 4th and 7th a V-shaped depression appeared off the west coast and greatly intensified the monsoon, rough seas being experienced by several vessels to the north and west of the depression. It caused unusually heavy rain in Bombay, Central India West and the Central Provinces West; Indore and Khandwa had each nearly 3¾″ of rain in the 48 hrs. ending 8 A.M. of the 7th, and Surat had 3 inches in the same period.

A feeble depression formed in the south of the Bay on the 23rd; but it disappeared without appreciable motion on the 26th, after causing local rain on the Coromandel coast on the 23rd and 24th and a heavy fall at Port Blair on the latter date.

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.	Gopalpore.	Nowgong.
Amini Divi.	Gorakhpur.	Rangoon.
Barisal.	Jalpaiguri.	Ratnagiri.
Bhamo.	Kyukpyu.	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 Fort in 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, Volume 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.

The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India:—

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·025
Assam	+·018
Bengal	+·017
Bihar and Orissa	+·028
United Provinces	+·040
Punjab	+·038
North-West Frontier Province	+·031
Sind	+·029
Rajputana	+·035
Bombay	0
Central India	+·027
Central Provinces	+·022
Hyderabad	+·019
Mysore	+·001
Madras	0

The following table gives a comparison of the departure from normal of the mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 9.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference. B—A.
	"		"	"
Quetta . . .	+·019	Jacobabad . .	+·036	+·017
Leh . . .	+·106	Lahore . .	+·032	—·074
Murree . . .	+·073	Peshawar . .	+·029	—·044
Simla . . .	+·071	Ludhiana . .	+·042	—·029
Muktoswar . .	+·063	Bareilly . .	+·047	—·016
Darjiling . . .	+·036	Dhubri . .	+·015	—·021
Mount Abu . .	+·034	Deesa . . .	+·025	—·009
Pachmarhi . .	+·018	Khandwa . .	+·020	+·002
Kodaikanal . .	—·010	Madura . .	+·002	+·012

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.

Table 10 gives the actual temperature and its departure from normal in the 33 sub-divisions, while Table 11 gives only the departures from normal in the 15 chief political divisions.

TABLE 10.

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	83·9	76·5	80·2	7·5	−1·0	+1·2	−2·2
2. Lower Burma	85·0	65·6	75·3	19·4	−0·8	+0·3	−1·1
3. Upper Burma	79·6	56·9	68·2	22·7	−0·6	+4·0	−4·6
4. Assam	75·3	53·4	64·4	21·9	+2·1	+2·6	−0·5
5 Bengal	78·0	55·5	66·7	22·5	+0·8	+1·2	−0·4
6. Orissa	80·7	58·3	69·5	22·4	−0·4	−0·1	−0·3
7. Chota Nagpur	77·5	50·6	64·0	26·9	0	−0·8	+0·8
8. Bihar	75·1	50·3	62·7	24·8	+0·7	+0·1	+0·6
9. United Provinces, East	74·0	47·0	60·5	27·1	+0·7	−0·6	+1·3
10. Do. do., West	71·8	46·0	58·9	25·8	−0·1	−0·8	+0·7
11. Punjab, East and North	66·3	43·2	54·8	23·1	−1·0	+0·3	−1·3
12. Do., South-west	68·2	42·7	55·5	25·5	+0·2	+1·3	−1·1
13. Kashmir	36·6	17·0	26·9	19·5	−2·2	−1·3	−0·9
14. North-West Frontier Province	65·1	40·9	53·0	24·1	−0·7	+1·1	−1·8
15. Baluchistan	60·6	34·6	47·6	26·0	+3·9	−1·4	+5·3
16. Sind	75·2	50·8	63·0	24·4	+0·2	+0·1	+0·1
17. Rajputana, West	75·8	48·1	61·9	27·7	+2·1	+2·2	−0·1
18. Do., East	74·1	48·7	61·4	25·5	−0·6	+0·6	−1·2
19. Gujarat	82·9	58·3	70·6	24·6	+1·0	+3·2	−2·2
20. Central India, West	77·3	52·6	65·0	24·7	−1·0	+3·5	−4·5
21. Do. do., East	73·5	47·1	60·3	26·3	−0·9	−0·4	−0·5
22. Berar	84·7	58·9	71·7	25·7	−0·7	+2·9	−3·6
23. Central Provinces, West	78·7	53·8	66·3	24·9	−1·2	+1·7	−2·9
24. Do. do., East	80·5	53·7	67·0	26·8	−0·9	+0·1	−1·0
25. Konkan	87·0	71·4	79·2	15·6	+1·8	+3·9	−2·1
26. Bombay Deccan	84·2	59·9	72·2	24·3	−1·4	+4·1	−5·5
27. Hyderabad, North	84·7	59·1	71·9	25·5	−0·7	+3·3	−4·0
28. Do., South	84·7	63·1	73·9	21·7	−0·7	+1·1	−1·8
29. Mysore	81·4	60·0	70·8	21·3	−1·7	+1·2	−2·9
30. Malabar	87·3	72·4	79·8	14·9	−0·1	+1·6	−1·7
31. Madras, South-east	84·4	69·7	77·0	14·8	−1·1	+1·7	−2·8
32. Do., Deccan	86·5	65·0	75·7	21·5	−2·1	+2·6	−4·7
33. Do. Coast, North	81·7	66·5	74·1	15·2	−0·7	+0·7	−1·4

TABLE 11.

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

Surface and upper air winds.

11. *Surface.*—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 the 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).

Wind directions were more easterly than usual on the south Burma coast. No marked departures from the normal were exhibited elsewhere.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 12.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·4	+0·1	49	+ 9
Assam	1·6	—0·2	32	+ 9
Bengal	1·3	—0·4	33	— 1
Bihar and Orissa	1·8	—0·3	40	— 2
United Provinces	1·3	—0·5	23	— 3
Punjab	1·8	+0·1	23	+ 7
North-West Frontier Province	0·4	—1·1	11	—18
Sind	2·8	—1·7	28	—20
Rajputana	2·2	—0·4	23	+ 2
Bombay	3·7	—1·0	52	— 6
Central India	1·3	—1·3	19	—12
Central Provinces	2·7	+0·3	49	+15
Hyderabad	4·0	—0·6	50	+13
Mysore	5·0	+0·7	75	+ 6
Madras	3·9	—0·1	61	— 1

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab, Calcutta and Bombay during the month are given in the following table :—

TABLE 13.

Height above sea, kms.	Agra. Height above sea = ·017 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.				Bombay. Height above sea = 0·01 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	31	2·0	0·7	285	28	1·5	0·7	119	28	0·2	0·1	100	24	4·0	3·6	82	27	0·9	0·7	10	29	2·5	1·7	329	27	2·6	1·6	50
0·5	32	5·1	2·5	332	...	...	...	...	27	4·8	2·4	320	...	...	...	...	28	4·2	2·6	5	29	3·9	2·9	337	30	5·4	3·6	74
1·0	32	4·8	3·1	300	...	...	...	...	28	5·0	2·3	307	24	4·6	4·3	87	28	4·5	0·5	285	27	4·4	3·1	328	30	4·7	2·5	92
1·5	32	5·6	4·7	289	...	...	...	...	28	4·4	1·0	299	24	6·2	5·9	76	28	5·1	0·8	256	24	6·6	5·7	314	30	3·7	1·7	122
2·0	32	6·8	5·7	287	...	...	...	...	28	4·2	0·9	221	24	6·0	5·1	65	26	4·7	3·1	275	20	8·8	7·6	315	30	3·8	2·2	163
2·5	32	7·7	6·8	281	26	3·8	2·0	151	28	5·3	2·1	218	23	5·4	3·7	69	24	6·2	4·9	292	14	11·2	9·6	304	30	4·6	3·0	183
3·0	31	8·7	7·7	279	28	4·3	1·5	187	28	6·9	3·7	240	22	5·5	3·1	69	23	7·7	6·4	288	7	7·6	5·7	261	28	5·1	2·4	215
3·5	31	10·0	8·8	273	27	5·3	2·2	202	28	8·6	5·5	243	22	6·0	2·7	80	22	9·6	8·4	293	5	8·4	5·8	275	27	5·4	1·7	292
4·0	31	11·5	10·1	272	27	6·7	3·9	235	27	10·0	6·8	252	21	6·8	2·1	95	22	11·1	9·9	292	5	8·7	6·3	291	27	6·1	2·8	279
4·5	31	13·3	11·7	272	27	8·2	5·4	242	25	11·0	7·5	257	21	7·5	1·5	97	20	11·9	10·6	289	3	8·8	7·1	292	25	7·2	3·4	266
5·0	31	15·0	13·6	269	25	10·6	7·9	254	23	12·4	9·9	273	20	9·0	1·6	107	18	12·9	11·5	285	1	11·5	11·5	305	25	8·6	4·4	272
5·5	26	16·3	14·5	272	23	13·5	11·5	260	22	14·9	12·4	272	16	8·0	0·6	247	11	12·3	11·4	292	...	...	...	...	23	9·5	5·2	274
6·0	24	17·6	16·0	274	19	16·5	14·4	258	22	18·1	15·3	271	14	7·4	0·7	213	10	14·4	13·7	285	...	...	...	...	23	11·3	7·0	273
6·5	22	19·7	17·8	276	15	20·5	18·1	259	20	20·2	17·8	266	14	8·7	1·6	196	5	12·9	12·6	275	...	...	...	...	21	12·9	8·5	271
7·0	22	21·2	19·1	276	12	21·9	19·2	261	18	22·6	20·2	267	13	9·9	2·5	214	1	17·5	17·5	260	...	...	...	...	21	15·7	10·9	270
7·5	20	22·6	20·9	272	11	26·3	24·1	268	15	23·7	21·4	274	13	9·9	3·0	205	1	20·0	20·0	265	...	...	...	...	17	16·5	10·5	270
8·0	19	25·7	23·3	271	9	32·2	30·7	268	13	23·3	22·8	275	12	9·7	4·0	211	...	...	...	...	...	...	...	...	17	18·9	12·9	268
8·5	14	26·3	23·6	273	9	36·7	35·4	268	12	27·7	24·3	277	12	11·4	4·5	221	...	...	...	...	...	...	...	...	10	16·1	13·9	262
9·0	13	26·4	23·4	272	7	34·8	32·7	262	9	28·2	24·0	275	10	11·4	3·1	238	...	...	...	...	...	...	...	...	9	17·6	16·1	269
9·5	8	22·3	18·5	274	4	31·3	30·8	279	5	23·4	19·4	297	7	11·1	4·7	231	...	...	...	...	...	...	...	...	6	17·4	14·5	273
10·0	7	21·1	16·6	282	3	30·8	30·3	273	3	18·8	21·7	330	4	9·6	9·2	244	...	...	...	...	...	...	...	...	6	19·0	15·8	269
10·5	5	17·2	10·9	282	3	33·5	32·9	273	2	15·5	15·5	320	4	8·4	8·0	251	...	...	...	...	...	...	...	...	2	15·3	15·3	243
11·0	5	19·0	12·0	291	1	20·0	20·0	290	2	16·7	16·5	317	3	8·0	7·9	248	...	...	...	...	...	...	...	...	2	16·0	16·0	248
11·5	5	20·1	11·7	295	...	...	...	...	2	19·7	19·3	310	1	7·0	7·0	275	...	...	...	...	...	...	...	...	1	16·5	16·5	245
12·0	5	24·6	14·5	301	...	...	...	...	2	20·5	20·3	312	...	...	...	...	...	...	...	...	...	...	...	...	1	20·0	20·0	245
12·5	4	28·4	16·7	292	...	...	...	...	1	18·0	18·0	315	...	...	...	...	...	...	...	...	...	...	...	...	1	26·0	26·0	240
13·0	3	24·0	23·2	257	...	...	...	...	1	24·0	24·0	300	...	...	...	...	...	...	...	...	...	...	...	...	1	31·5	31·5	240
13·5	...	...	...	...	...	...	...	...	1	30·0	30·0	300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14·0	...	...	...	...	...	...	...	...	1	28·0	28·0	310	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
14·5	...	...	...	...	...	...	...	...	1	30·5	30·5	305	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15·0	...	...	...	...	...	...	...	...	1	33·0	33·0	310	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15·5	...	...	...	...	...	...	...	...	1	32·0	32·0	305	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
16·0	...	...	...	...	...	...	...	...	1	36·5	36·5	310	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

N = Number of flights.
V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of resultant wind, taking account of direction, metre per sec.
L = Direction of resultant wind; North wind = 0° or 360°, East wind = 90°.

a

Humidity and cloud.

12. The hygrometric data of 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 fig. 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.

The following table gives the mean humidity, vapour tension and cloud amount at 8 hours 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 . .	83	— 1	·539	—·001	3·9	+1·7
Assam . . .	92	— 2	·423	+·022	4·4	+1·0
Bengal . . .	82	— 3	·429	—·008	2·6	+0·9
Bihar and Orissa .	75	— 4	·368	—·021	3·0	+1·0
United Provinces .	80	+ 1	·307	—·004	2·1	—0·2
Punjab . .	85	+ 8	·273	+·024	3·0	—0·7
North-West Frontier Province.	79	+ 7	·231	+·025	3·5	—0·4
Sind . . .	68	— 2	·296	+·020	1·1	—1·7
Rajputana . .	62	+ 4	·251	+·017	2·7	+0·1
Bombay . .	67	+ 7	·461	+·089	2·4	+1·0
Central India .	73	+ 7	·332	+·043	2·3	+0·1
Central Provinces .	66	+ 3	·357	+·032	2·7	+1·0
Hyderabad . .	67	+ 4	·464	+·035	2·5	+0·7
Mysore . .	75	+ 3	·496	+·021	3·1	+0·1
Madras . .	81	+ 2	·668	+·031	3·1	+0·3

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 numbers of "rainy days," in Table B are based on observations which extend in most cases over a period of 45 or 55 years ending in 1915.

Averaged over the plains of India as a whole rainfall was 73 per cent. above normal, but the distribution was very irregular.

The month was dry or almost so in Lower Burma, the greater part of northeast India and of the United Provinces, as well as in Central India East, the Central Provinces East and Sind. Rainfall was in large excess over the whole of the Peninsula, and in Gujarat, Berar, and the west of Central India and of the Central Provinces; southeast Madras received 5·62″ in place of a normal of 0·75″ and Gujarat 1·43″ against a normal of 0·05″.

Weather was quite dry at Baghdad, Qurmah and Kut,

TABLE 15.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	1·7	1·1	1·61	0·91	+0·70	+ 77
2. Lower Burma	0	0·4	0	0·17	−0·17	−100
3. Upper Burma	0·4	0·3	0·11	0·10	+0·01	+ 10
4. Assam	0·6	1·7	0·28	0·74	−0·46	− 62
5. Bengal	0	0·8	0·01	0·37	−0·36	− 97
6. Orissa	0	0·8	0	0·40	−0·40	−100
7. Chota Nagpur	0	1·3	0	0·66	−0·66	−100
8. Bihar	0	1·0	0	0·46	−0·46	−100
9. United Provinces, East	0	1·4	0	0·65	−0·65	−100
10. Do., West	0·7	2·0	0·23	0·97	−0·74	− 76
11. Punjab, East and North	1·9	2·3	0·86	1·26	−0·40	− 32
12. Do., South-west	1·4	1·3	0·58	0·52	+0·06	+ 12
13 Kashmir	4·8	5·4	2·66	4·14	−1·48	− 36
14. North-West Frontier Province	3·7	2·7	1·74	1·48	+0·26	+ 18
15. Baluchistan	2·3	3·2	0·87	1·46	−0·59	− 40
16. Sind	0·4	0·7	0·06	0·25	−0·19	− 76
17. Rajputana, West	0·5	0·5	0·11	0·19	−0·08	− 42
18. Do., East	1·0	1·0	0·45	0·39	+0·06	+ 15
19. Gujarat	1·4	0·1	1·43	0·05	+1·38	+2760
20. Central India, West	1·8	0·6	1·30	0·28	+1·02	+ 364
21. Do., East	0·2	1·1	0·04	0·50	−0·46	− 92
22. Berar	3·0	0·6	2·07	0·33	+1·74	+527
23. Central Provinces, West	2·1	0·9	1·71	0·47	+1·24	+264
24. Do., East	0·2	0·7	0·07	0·34	−0·27	− 79
25. Konkan	1·2	0·1	0·59	0·09	+0·50	+556
26. Bombay Deccan	1·7	0·2	1·24	0·12	+1·12	+933
27. Hyderabad, North	1·6	0·3	0·89	0·14	+0·75	+536
28. Do., South	0·9	0·3	0·83	0·14	+0·69	+493
29. Mysore	0·9	0·2	0·42	0·11	+0·31	+282
30. Malabar	2·2	0·7	1·44	0·48	+0·96	+200
31. Madras, South-east	4·9	1·1	5·62	0·75	+4·87	+649
32. Do., Deccan	1·3	0·3	1·06	0·17	+0·89	+524
33. Do. Coast, North	1·0	0·5	0·68	0·32	+0·36	+113

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·07	0·13	—0·06	— 46
Assam	0·28	0·74	—0·46	— 62
Bengal	0·01	0·37	—0·36	— 97
Bihar and Orissa	0	0·50	—0·50	—100
United Provinces	0·12	0·82	—0·70	— 85
Punjab	0·79	1·08	—0·29	— 27
North-West Frontier Province	1·74	1·48	+0·26	+ 18
Sind	0·06	0·25	—0·19	— 76
Rajputana	0·33	0·32	+0·01	+ 3
Bombay	1·19	0·09	+1·10	+1222
Central India	0·82	0·36	+0·46	+128
Central Provinces	1·06	0·38	+0·68	+179
Hyderabad	0·86	0·14	+0·72	+514
Mysore	0·42	0·11	+0·31	+282
Madras	3·05	0·52	+2·53	+487
Mean of India	0·76	0·44	+0·32	+ 73

Snowfall.

I.—CENTRAL ASIA.

14. *Kashgar.*—Half an inch of snow fell on the 3rd.

II.—PERSIA.

Meshed.—Snow fell to a depth of 11 inches.

III.—THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Tochi* (*North Waziristan*).—Heavy snow fell on the hills in North Waziristan on the night of the 23rd-24th.

(*b*) *Kohat.*—Snow fell on the Samana on 5 days to a total depth of 5¾ feet.

(*c*) *Hazara.*—The following amounts fell during the month :—

TABLE 17.

Locality.	Depth of fall.	
	Feet.	Inches.
Narang	7	9
Paludran	5	10
Kagan	3	5
Jared	0	6
Malkandi	0	6½
Sundigali	6	6
Jachha	4	7
Thandiani	5	2
Dungagali	4	6

The accumulations on the 15th of the month were as follows :—

TABLE 18.

Locality.	Depth of unmelted snow on 15th January.	
	Feet.	Inches.
Narang	5	2
Paludran	4	2
Kagan	1	6
Sundigali	2	0
Thandiani	6	2
Dungagali	5	0

IV.—KASHMIR.

(*a*) *Srinagar.*—The month's fall was below normal.

(*b*) *Skardu.*—Snow fell on 12 days in the district, the total amount being about 1 foot at the station and nearly 3 feet on the mountains. The accumulation at the end of the month was 4 or 5 feet on the mountain ranges, 7 or 8 feet on Deosai Pass and at Burzila, and a foot and a quarter at the station. The falls were considered to be above the average.

(*c*) *Dras.*—Snow fell on 12 days to a total depth of nearly 3½ feet.

(*d*) *Kargil.*—Snow fell on 6 days, the total amount being about 2½ feet near the station and 4 feet on the mountains.

V.—THE PUNJAB.

(*a*) *Murree.*—Snow fell on the 24th and for 2 hours on the 30th; the fall on the 24th was 4½ inches.

(*b*) *Kilba* (*Simla hills*).—Snow fell down to a height of 6,000 feet, but as it was mixed with rain it did not accumulate. The accumulations on the passes were :—

TABLE 19.

Name of pass.	Height.	Accumulation.
	Feet.	Feet.
Harang	12,200	8
Charang-Chhetkul	17,000	15
Rupan	15,400	13
Brua	15,300	13

All passes were closed.

The falls below 8,000 feet were considered to have been below the average.

VI.—THE UNITED PROVINCES.

(*a*) *Garhwal.*—An inch of snow fell at places 5,000 feet above sea-level.

(*b*) *Almora.*—

TABLE 20.

Locality.	Month's total fall.	Distance below perpetual snowline.
	Feet.	
Malla Dunpur	4	3 or 4 miles.
Malla Darma	9	7 miles.
Malla Johar	2⅓	
Byans	11¼	18 or 19 miles.
Chaudas	6¾	13 or 14 miles.

TABLE 21.

Name of pass or peak.	Accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe Pass	17	34
Lampia ,,	27 or 28	14½
Lipulekh ,,	18 or 19	16
Binkaru ,,	13 or 14	19
Kaphini Peak	4	7½
Kuntela ,,	4	7½
Pindari ,,	4	8
Milamdhara	5¼	12
Bagdwar	5¾	

VII.—TIBET.

Heavy snow was reported to have fallen in Tibet.

VIII.—EASTERN HIMALAYAS.

(*a*) *Yatung.*—No snow fell.

(*b*) *Kamrup.*—About 2 feet of snow fell on the Khergongpa and Tonglagongpa peaks in December, 1919, and January, 1920.

(*c*) *Balipara Frontier Tracts.*—There were heavy snowstorms about the middle of the month. The total fall of the month was about normal.

Summary.

15. The month's fall was in defect in the United Provinces Himalayas, and roughly normal in the rest of the mountains bordering northern India.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in January, 1920.

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. Mean of 10 hrs.	Pressure. Mean of 16 hrs.	Pressure. Mean daily range.	Pressure. Mean of daily mean pressures.	Pressure. Departure from normal.	Pressure. Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Temperature of air. Mean minimum.	Temperature of air. Mean daily range.	Temperature of air. Highest maximum.	Temperature of air. Lowest minimum.	Temperature of air. Absolute range.	Temperature of air. Mean 10 hrs.	Temperature of air. Mean 16 hrs.	Temperature of air. Mean of daily means.	Temperature of air. Departure from normal.	Temperature, wet-bulb. Mean minimum.	Temperature, wet-bulb. Mean 10 hrs.	Temperature, wet-bulb. Mean 16 hrs.	Temperature, wet-bulb. 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	30·100	29·967	·133	30·023	+·005	29·992	78·2	57·2	21·0	82·6	51·5	31·1	69·6	77·0	66·7	+1·5	55·0	61·3	63·2	59·8
	VI.—Punjab.																					
11	Lahore	702	29·409	29·318	·091	29·355	+·029	30·067	66·8	43·4	23·4	71·1	36·7	34·4	54·1	66·0	53·2	+0·2	42·0	50·5	56·8	49·8
	IX.—Rajputana.																					
18	Jaipur	1,431	28·686	28·577	·109	28·622	+·038	30·017	74·5	48·3	26·2	80·5	39·2	41·3	65·3	72·9	60·0	+0·1	44·2	52·8	56·9	51·0
	X.—Bombay.																					
25	Bombay	37	30·005	29·888	·117	29·940	−·015	29·917	84·4	72·0	12·4	88·1	68·0	20·1	77·3	80·4	77·4	+2·9	65·5	70·9	73·1	69·8
	XIV.—Mysore.																					
29	Bangalore	3,021	27·054	26·942	·112	26·996	+·010	29·872	79·6	58·8	20·8	84·5	51·5	33·0	71·6	77·3	68·2	+0·7	57·9	62·6	63·2	61·2
	XV.—Madras.																					
30	Trivandrum	198	29·796	29·679	·117	29·740	+·003	29·868	83·6	72·9	10·7	85·9	69·6	16·3	79·4	82·6	77·4	+0·3		73·3	75·3	
31	Pudukkottai	318	29·730	29·598	·132	29·664		29·914	85·3	70·1	15·2	89·6	66·2	23·4	78·7	83·3	77·7			71·3	71·4	
	Madras	22	30·041	29·936	·105	29·986	−·010	29·938	84·2	69·9	14·3	86·4	65·2	21·2	80·2	81·0	76·3	+1·0	68·5	73·2	73·2	71·7
	Kashmir.																					
13	Srinagar	5,204	25·137	25·029	·078	25·098	+·107	25·069	34·9	28·1	6·8	43·9	18·5	24·5	31·0	33·5	31·5	+0·8	27·5	30·2	31·7	29·8
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·767	25·681	·086	25·718	+·031	25·672	67·8	37·5	30·3	73·2	31·6	41·6	49·5	64·5	52·0	+2·4	35·3	45·6	52·9	44·6
	Kodaikanal	7,688	22·871	22·804	·067	22·837		22·772	61·6	45·9	15·7	67·7	40·2	27·4	58·5	56·6	53·8		42·2	50·4	52·0	48·2
	Extra India.																					
	Seychelles	15	29·975	29·879	·096	29·938*	+·013*	29·876	83·0	78·0	5·0	85·1	75·3	9·8	81·0	81·4	79·2	+0·8*	71·5	76·7	76·7	75·0
	Mauritius	181				29·723	−·042	29·788	87·1	72·1	15·0	91·2	64·0	27·2			78·8	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 2,200 feet.

A.

at 13 stations in India, etc., in January, 1920.

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.	
·404	·432	·398	·428	−·003	86	60	43	65	− 5	2·8	2·5	2·7	+1·2	4	11	9	1	1	1	4	7	24	N 32° W	N 30° W	56	44	49	45	0	0	Calcutta	5
																															VI.—Punjab.	
·251	·320	·339	·308	+·039	88	77	54	76	+ 6	3·8	3·4	3·6	−0·1	23	2	3	0	3	1	1	8	16	N 54° W	N 30° W	31	21	21	30	1·22	0·86	Lahore	11
																															IX.—Rajputana.	
·243	·247	·244	·251	−·017	72	40	31	52	− 4	2·2	2·6	2·4	−0·9	9	4	11	7	4	1	5	11	10	N 20° W	N	19	18	57	58	0·98	0·98	Jaipur	18
																															X.—Bombay.	
·542	·673	·718	·632	+·071	69	72	70	74	+ 2	2·3	2·0	2·1	+1·0	0	2	12	16	3	1	0	5	23	N 13° E	N 6° E	39	58	143	174	0·99	0·73	Bombay	25
																															XIV.—Mysore.	
·474	·464	·419	·456	+·043	75	60	46	69	+ 7	3·1	3·6	3·3		2	1	19	31	8	1	0	0	0	N 82° E	N 88° E	82	78	132	93	0·44	0·28	Bangalore	29
																															XV.—Madras.	
	·737	·776				74	70			4·3	3·8	4·1	+1·1	16	4	4	1	2	2	12	15	6	S 88° W	S 84° W	35	31	67	70	2·34	1·47	Trivandrum	30
	·640	·616				69	54			4·6	5·0	4·8		9	3	38	10	2	0	0	0	0	N 54° E		77		105		5·03	2·17	Pudukkottai	31
·681	·726	·714	·725	+·040	93	71	68	80	+ 1	4·6	4·3	4·5	+0·4	1	7	44	10	0	0	0	0	0	N 47° E	N 51° E	92	76	77	100	7·08	3·93	Madras.	
																															Kashmir.	
·146	·159	·160	·155	−·003	90	92	84	89	+ 5	10·0	10·0	10·0	+2·8	20	4	2	1	9	6	6	2	12	S 63° W	S 21° E	10	4	40	54	2·49	0·70	Srinagar	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·181	·263	·267	·245	−·008	81	75	45	71	− 6	2·8	3·3	3·1	−0·3	0	0	0	31	31	0	0	0	0	S 68° E	N 78° W	92	46	10	15	0	0	Katmandu.	
·237	·285	·341	·288		75	61	76	71		3·6	5·8	4·7		0	5	12	11	18	3	0	4	9	N 79° E		35		213		8·77	3·03	Kodaikanal.	
																															Extra India.	
·690	·864	·857	·822	−·011	72	82	80	81	− 3	6·7	7·5	7·1	+0·1*	10	14	9	2	0	0	0	3	24	N 15° E	N 39° W	39	61	113	107	31·42	10·07	Seychelles.	
			·741	−·006				74	− 2			6·6	+0·4										S 67° E	S 87° E			105	137	7·07	1·57	Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in January, 1920.

(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 2,500 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	+·025	82·8	−0·7	62·0	+2·0	72·4	+0·6	20·8	+0·1	+9	83	−1	·539	−·001	3·9	+1·7	0·07	0·13	−0·06
Assam	+·018	75·3	+2·1	53·4	+2·6	64·4	+2·3	21·9	−0·2	+9	92	−2	·423	+·022	4·4	+1·0	0·28	0·74	−0·46
Bengal	+·017	78·0	+0·8	55·5	+1·2	66·7	+1·0	22·5	−0·4	−1	82	−3	·429	−·008	2·6	+0·9	0·01	0·37	−0·36
Bihar and Orissa	+·028	77·4	+0·2	52·8	−0·2	65·1	0	24·6	−0·3	−2	75	−4	·368	−·021	3·0	+1·0	0	0·50	−0·50
United Provinces of Agra and Oudh	+·040	73·0	+0·4	46·5	−0·7	59·8	−0·2	26·5	−0·5	−3	80	+1	·307	−·004	2·1	−0·2	0·12	0·82	−0·70
Punjab	+·028	67·0	−0·7	43·1	+0·6	53·0	0	23·9	+0·1	+7	85	+8	·273	+·024	3·0	−0·7	0·79	1·08	−0·29
North-West Frontier Province	+·031	65·1	−0·7	40·9	+1·1	53·0	+0·2	24·1	−1·1	−18	79	+7	·231	+·025	3·5	−0·4	1·74	1·48	+0·26
Sind	+·029	75·2	+0·2	50·8	+0·1	63·0	+0·1	24·4	−1·7	−20	68	−2	·296	+·020	1·1	−1·7	0·06	0·25	−0·19
Rajputana	+·035	74·8	+0·1	48·4	+1·0	61·6	+0·5	26·4	−0·4	+2	62	+4	·251	+·017	2·7	+0·1	0·33	0·32	+0·01
Bombay	0	84·2	+0·4	61·6	+3·7	72·9	+2·0	22·6	−1·0	−6	67	+7	·461	+·089	2·4	+1·0	1·19	0·09	+1·10
Central India	+·027	75·4	−0·9	49·9	+1·6	62·7	+0·3	25·5	−1·3	−12	73	+7	·332	+·043	2·3	+0·1	0·82	0·36	+0·48
Central Provinces	+·022	80·3	−1·0	54·6	+1·4	67·4	+0·2	25·7	+0·3	+15	66	+3	·357	+·032	2·7	+1·0	1·06	0·38	+0·68
Hyderabad	+·019	84·7	−0·7	61·7	+1·9	73·2	+0·6	23·0	−0·6	+13	67	+4	·464	+·035	2·5	+0·7	0·86	0·14	+0·72
Mysore	+·001	81·4	−1·7	60·0	+1·2	70·8	−0·2	21·3	+0·7	+6	75	+3	·496	+·021	3·1	+0·1	0·42	0·11	+0·31
Madras	0	84·5	−0·9	68·7	+1·6	76·6	+0·3	15·8	−0·1	−1	81	+2	·663	+·031	3·1	+0·3	3·05	0·52	+25·3

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	29·861		29·940	29·919	6th	29·819	30th	76·5	70·0	86·0		72·5		79·3		13·5	90·7	26th	68·4	7th
	Mergui	66	29·969	+·031	29·966	30·028	6th	29·914	29th	71·0	65·1	87·6	−0·6	67·2	−0·8	77·4	−0·7	20·4	90·8	28th	62·1	1st
	Tavoy	19	30·015	+·015	29·966	30·067	6th	29·949	30th	67·7	64·0	88·8	−1·0	61·4	−3·8	75·1	−2·4	27·4	94·0	31st	56·3	7th
	Moulmein	77	29·980	+·039	30·003	30·078	5th	29·905	28th, 29th 30th	69·7	65·2	86·4	−2·5	64·4	−1·1	75·4	−1·8	22·0	90·4	27th	60·1	7th
	Rangoon	18	30·032	+·028	29·988	30·107	5th	29·954	30th	68·6	65·8	87·3	−1·7	65·4	+0·7	76·4	−0·5	21·9	91·3	27th	60·9	31st
	Bassein	27	30·038	+·034	30·002?	30·111	5th	29·960	29th	70·4	66·6	87·2	+1·4	64·1	+1·6	75·6	+1·5	23·1	91·3	28th	57·0	30th
	Diamond Island	41	29·992	+·010	29·969	30·056	5th & 7th.	29·904	30th	76·5	70·9	84·4	+0·7	72·9	+1·3	78·6	+1·0	11·5	91·5	26th	69·9	17th
	Toungoo	164	29·898	+·034	30·010	29·985	4th	29·855	10th	66·0	64·3	84·2	−0·6	60·4	+2·9	72·3	+1·1	23·8	89·6	28th	54·9	31st
	Kyaukpyu	18	30·022		29·980	30·096	3rd	29·943	30th	70·3	67·1	79·1		66·5		72·8		12·6	81·9	26th	60·2	30th
	Akyab	20	30·026	+·005	29·987	30·107	6th	29·952	26th	64·3	62·1	78·9	−2·2	60·8	+1·4	69·8	−0·4	18·1	83·0	27th	52·8	29th & 30th.
3	Minbu	*165*	29·887	−·001?	30·002	29·983	3rd	29·801	31st	66·2	61·6	82·2	−2·4	62·0	+4·6	72·1	+1·1	20·2	87·5	27th	55·4	31st
	Yamethin	644	29·394	+·017	30·014	29·478	3rd	29·311	30th	64·1	61·3	83·9	−2·1	60·1	+4·5	72·0	+1·2	23·8	90·2	27th	54·2	4th
	Mandalay	250	29·823	+·032	30·031	29·915	3rd	29·732	10th	65·6	62·2	85·3	+1·1	60·6	+4·2	73·0	+2·7	24·7	89·9	27th	55·2	29th
	Monywa	*280*	29·803	+·018	30·044	29·887	4th	29·719	31st	64·4	61·1	83·4	+1·7	60·2	+3·7	71·8	+2·7	23·2	87·6	28th	54·5	3rd
	Lashio	*2,820*	27·243	+·031	27·189	27·334	5th	27·139	31st	53·7	52·4	72·2	−2·4	49·4	+3·8	60·8	+0·7	22·8	78·5	27th	43·0	30th
	Bhamo	*361*	29·713	+·041	30·049	29·807	6th	29·626	14th	56·3	55·7	74·8	−1·1	53·4	+4·7	64·1	+1·8	21·4	78·5	20th	45·9	30th
	Myitkyina	463	29·600	+·015	30·049	29·694	2nd	29·510	28th, 27th.	56·4	55·1	75·1	+0·7	52·3	+2·8	63·7	+1·7	22·8	78·6	20th	47·0	31st
	II.—Assam.																					
4	Dibrugarh	353	29·734	+·004	30·072	29·820	2nd	29·645	30th	55·1	54·6	74·4	+3·8	52·0	+2·7	63·2	+3·3	22·4	77·5	12th	47·9	3rd
	Sibsagar	333	29·763	+·003	30·077	29·846	1st	29·676	13th	54·8	54·1	71·4	+1·4	52·3	+2·6	61·9	+2·0	19·1	75·0	28th	48·2	5th
	Tezpur	252	29·855	+·030	30·081	29·935	1st	29·756	31st	56·6	55·4	75·2	+2·2	54·6	+2·9	64·9	+2·5	20·6	78·6	28th	51·0	5th
	Gauhati	196	29·915	+·020	30·078	30·010	1st	29·826	13th	57·3	56·3	75·8	+1·7	52·7	+3·0	64·2	+2·3	23·1	78·9	22nd	47·3	29th
	Dhubri	115	29·972	+·015	30·048	30·066	2nd	29·887	31st	59·0	55·6	74·8	+1·1	55·5	+3·0	65·2	+2·1	19·3	78·4	14th	50·3	29th
	Silchar	104	30·014	+·037	30·075	30·090	1st	29·940	13th	61·9	59·2	80·1	+2·4	53·5	+1·2	66·8	+1·8	26·6	84·6	23rd	46·4	29th
	Srimangal	66	30·015		30·036	30·091	8th	29·953	10th	51·9	50·8	80·7	+0·8	46·8?	−1·9?	63·7?	−0·5?	33·9	83·5	23rd	40·6	29th
	III.—Bengal.																					
5	Cox's Bazar	36	30·022		30·004	30·098	3rd	29·952	26th	63·9	61·1	80·0		57·6		68·8		22·4	85·2	25th	50·9	3rd
	Chittagong	87	29·989	+·019	30·026	30·072	1st	29·903	30th	60·1	58·3	78·9	+0·6	56·0	+0·7	67·4	+0·7	22·9	83·2	27th	49·3	29th
	Noakhali	43	30·047	+·032	30·039	30·129	1st	29·977	26th	63·0	60·0	78·9	+1·2	57·4	+4·6?	68·1	+2·9?	21·5	83·4	26th	51·4	29th
	Barisal	12	30·051	+·012	30·020	30·141	8th	29·982	30th	62·4	59·6	77·8	+0·2	56·7	+1·7	67·3	+0·9	21·1	82·9	26th	50·8	2nd
	Narayanganj	26	30·054	+·014	30·030	30·136	1st	29·978	31st	61·9	58·6	78·0	+0·4	57·5	+2·2	67·7	+1·3	20·5	82·1	23rd	52·4	2nd
	Mymensingh	63	30·015	+·011	30·032	30·097	2nd	29·940	31st	58·8	56·4	77·6	+2·5	55·5	+2·5	66·6	+2·5	22·1	82·0	26th	48·9	29th
	Bogra	75	30·012	+·013	30·043	30·094	1st	29·923	31st	57·2	54·9	76·4	+0·7	53·4	+1·5	64·9	+1·1	23·0	80·3	23rd	45·2	29th
	Dinajpur	123	29·951	+·007	30·036	30·046	2nd	29·864	31st	54·7	52·8	77·0	+1·7	50·8	+1·9	63·9	+1·8	26·2	81·3	26th	44·0	29th
	Jalpaiguri	283	29·806	+·026	30·065	29·909	2nd	29·713	30th	55·4	54·0	76·8	+4·2?	52·5	+1·6	64·7	+2·9?	24·3	80·2	13th	46·1	28th
	Saugor Island	10	30·072	+·010	30·028	30·157	1st	29·974	31st	63·6	61·1	77·7	+0·8	59·0	−0·2	68·4	+0·3	18·7	81·5	15th & 26th.	51·7	2nd
	Midnapore	149	29·941	+·016	30·046	30·033	2nd	29·830	30th	61·2	54·2	80·8	0	57·1	+1·2	68·9	+0·6	23·7	85·8	31st	51·0	2nd & 3rd.
	Calcutta	21	30·072	+·014	30·040	30·155	8th	29·965	31st	59·7	57·0	78·0	+0·7	56·7	+1·2	67·3	+0·9	21·3	81·6	27th & 31st.	51·5	2nd

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

B.

at 211 stations in India, etc., in January, 1920.

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. 1919 to 31st Jan. 1920.	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.
11	3	11	6	0	0	0	0	0	N 52° E		6·3			56		71		·650		3·8		0	−1·3	0	0·48	− 0·48	1·26	2·64	− 1·38	0	Victoria Point.
9	1	7	9	4	1	0	0	0	N 83° E	S 4° W	4·1	1·5	+2·6	56	+45	71	−11	·545	−·176	2·4	−0·4	0	−1·6	0	1·01	− 1·01	1·46	1·42	+ 0·04	0	Mergui.
29	1	1	0	0	0	0	0	0	N 24° E	N 9° W	1·4	0·9	+0·5	7	0	81	− 8	·545	−·118	3·5	+2·6	0	−0·4	0	0·19	− 0·19	0·15	0·42	− 0·28	0	Tavoy.
1	2	13	12	0	1	0	1	1	N 61° E	N 48° E	2·6	1·8	+0·8	69	+ 8	78	− 7	·564	−·150	1·6	−0·1	0	−0·3	0	0·28	− 0·28	0·83	0·49	+ 0·34	0	Moulmein
5	6	14	3	0	0	0	2	1	N 31° E	N 29° E	3·2	2·8	+0·41	66	+34	86	+ 4	·598	+·023	3·1	+1·3	0	−0·4	0	0·23	− 0·23	0·71	0·59	+ 0·12	0	Rangoon.
21	1	8	1	0	0	0	0	0	N 45° E	N 2° W	2·5	2·6	−0·1	33	+ 1	81	− 7	·608	+·022	3·5	+2·1	0	−0·1	0	0·13	− 0·13	0·40	0·52	− 0·12	0	Bassein.
0	7	16	5	0	0	0	0	3	N 35° E	N 14° E	6·9	5·8	+1·1	79	− 2	75	+ 2	·681	+ 019	3·2	+1·0	0	−0·3	0	0·20	− 0·20	1·43	1·04	+ 0·39	0	Diamond Island.
5	11	9	2	1	1	0	0	2	N 24° E	N 9° W	1·5	1·2	+0·3	62	− 3	91	+ 3	·578	+·062	3·4	+2·0	0	−0·4	0	0·23	− 0·23	1·91	0·65	+ 1·26	0	Toungoo.
26	1	2	1	0	0	0	0	1	N 29° E		0·3			13		84		·625		3·8		0	−0·4	0	0·08	− 0·08	4·96	0·37	+ 4·59	0	Kyaukpyu.
7	12	12	0	0	0	0	0	0	N 22° E	N 21° E	2·1	2·0	+0·1	69	−18	87	− 2	·529	+·019	3·0	+1·9	0	−0·2	0	0·07	− 0·07	1·51	0·77	+ 0·74	0	Akyab.
7	2	2	0	1	0	0	0	19	N 35° W	N 52° W	1·7	4·2	−2·5	62	+14	76	+ 1	·487	+·047	3·3	+2·0	0	−0·2	0	0·05	− 0·05	1·81	0·55	+ 1·26	0	Minbu.
										N 11° W		1·8				84	+ 4	·504	+·059	2·8	+1·6	1	+0·8	0·85	0·09	+ 0·76	2·80	0·58	+ 2·22	0·85	Yamethin.
										N 13° E		1·5				82	− 1	·512	+·050	5·4	+4·1	1	+0·9	0·39	0·04	+ 0·35	1·06	0·40	+ 0·66	0·39	Mandalay.
6	19	1	0	0	0	0	0	5	N 7° W		1·2			76		82	− 4	·495	+·031	4·3	+2·6	0	0	0·05	0	+ 0·05	0·21	0·42	− 0·21	0·05	Monywa.
29	0	0	0	0	0	1	1	0	S 66° W		1·3			7		93	+ 2	·380	+·037	3·8	+0·4	1	+0·3	0·43	0·31	+ 0·12	0·87	1·24	− 0·37	0·42	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 18° W	0·1	1·9	−1·8			96	+ 1	·437	+·052	9·5	+7·0?	5	+3·8	0·75	0·54	+ 0·21	1·61	1·15	+ 0·46	0·20	Bhamo.
30	0	1	0	0	0	0	0	0	N 45° E		1·7			3		92	+ 2	·418	+·011	5·7	+2·3	0	−1·3	0·10	0·50	− 0·40	0·10	0·97	− 0·87	0·09	Myitkyina.
																															II.—Assam.
28	0	1	2	0	0	0	0	0	N 75° E		0			10		97	+ 1	·422	+·046	4·7	0	2	−1·5	0·68	1·58	− 0·90	0·72	2·02	− 1·30	0·43	Dibrugarh.
28	1	0	0	0	1	1	0	0	S 45° W	N 82° E	0·3	1·3	−1·0	3	−20	96	− 2	412	+·014	9·2	+2·1	2	−1·7	0·97	1·34	− 0·37	1·06	1·87	− 0·81	0·55	Sibsagar.
14	2	7	8	0	0	0	0	0	N 62° E		1·8			46		92	− 1	·425	+·037	4·1	+1·3	0	−1·5	0·04	0·53	− 0·49	0·15	0·82	− 0·67	0·04	Tezpur.
23	1	3	3	0	0	0	1	0	N 53° E		0·6			17		93	− 3	·442	+·043	8·2	+1·5	1	0	0·62	0·34	+ 0·28	0·62	0·55	+ 0·07	0·62	Gauhati.
2	1	11	11	2	3	1	0	0	N 79° E	N 55° E	3·4	2·8	+0·6	62	+23	85	− 7	·427	+·015	2·0	+0·1	0	−0·8	0	0·32	− 0·32	0	0·40	− 0·40	0	Dhubri.
19	1	4	3	4	0	0	0	0	N 84° E	S 72° E	1·1	1·2	−0·1	30	+24	85	− 6	·471	+·042	1·3	−1·4?	0	−1·7	0	0·88	− 0·88	0·07	1·31	− 1·24	0	Silchar.
																93	+ 2	·351	−·045	1·6		1	−0·2	0·26	0·65	− 0·39	0·26	0·96	− 0·70	0·26	Srimangal.
																															III.—Bengal.
21	0	6	3	0	0	0	0	1	N 53° E		1·1			27		84		·504		2·5		0	−0·3	0·04	0·09	− 0·05	0·06	1·15	− 1·09	0·03	Cox's Bazar.
1	4	23	2	0	0	0	0	1	N 40° E	N 28° E	1·7	2·3	−0·6	86	+31	89	+ 1	·468	+·006	2·7	+1·2	0	−0·5	0·01	0·31	− 0·30	0·03	1·11	− 1·08	0·01	Chittagong.
13	9	9	0	0	0	0	0	0	N 22° E		0·4			52		83	− 6	·479	+·019	2·7	+1·2	0	−0·7	0·02	0·30	− 0·28	0·04	0·61	− 0·57	0·02	Noakhali.
17	4	5	0	0	0	1	1	3	N 2° W	N 4° E	1·5	1·2	+0·3	29	+18	84	− 3	·473	−·005	2·6	+1·3	0	−0·7	0	0·47	− 0·47	0·14	0·91	− 0·77	0	Barisal.
27	1	0	0	0	0	1	0	2	N 51° W	N 10° W	0·5	1·7	−1·2	10	−29	81	− 7	·449	−·001	2·6	+0·4	0	−0·9	0·07	0·33	− 0·26	0·07	0·52	− 0·45	0·07	Narayanganj.
31	0	0	0	0	0	0	0	0	Calm	N 54° E	0·6	0·9	−0·3			85	− 5	·427	+·005	2·5	+1·1	0	−1·0	0	0·37	− 0·37	0	0·45	− 0·45	0	Mymensingh.
29	1	0	0	0	0	0	0	1	N 24° W	N 18° W	0·1	1·2	−1·1	7	−27	86	+ 2	·403	+·011	3·2	+2·0	0	−1·0	0	0·40	− 0·40	0	0·46	− 0·46	0	Bogra.
12	3	2	0	0	1	5	7	1	N 87° W	N 61° W	1·3	1·7	−0·4	33	− 3	88	0	·377	0	1·7	−0·1	0	−0·8	0	0·35	− 0·35	0	0·42	− 0·42	0	Dinajpur.
28	1	0	0	0	0	0	0	2	N 31° W	N 18° E	0·3			7	−36	91	0	·401	+·006	0·6	−1·1	0	−0·7	0	0·32	− 0·32	0	0·45	− 0·45	0	Jalpaiguri.
1	17	11	0	0	0	1	0	1	N 15° E	N 13° E	4·6	4·4	+0·2	86	+22	86	− 4	·509	−·019	4·3	+2·0	0	−0·8	0	0·30	− 0·30	0	0·60	− 0·60	0	Saugor Island.
13	12	3	0	0	0	0	0	3	N		1·3*			52		61	−10	·329	−·064	2·3	+0·8	0	−0·9	0	0·48	− 0·48	0	0·77	− 0·77	0	Midnapore.
5	10	2	0	1	0	2	1	10	N 24° W	N 6° W	2·0	1·9	+0·1	59	+27	84	− 1	·432	−·014	4·0	+2·2	0	−0·8	0	0·37	− 0·37	0	0·59	− 0·59	0	Calcutta.

* 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. 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
	III.—Bengal—*concld.*																					
	Jessore	30	30·063	+·019	30·042	30·145	1st	29·955	31st	60·1	56·3	75·7	−1·6?	52·7	−0·5	64·2	−1·1?	23·0	80·9	26th	49·7	11th & 29th.
	Burdwan	99	29·991	+·011	30·041	30·073	1st	29·881	31st	58·3	54·4	79·3	+0·7	54·8	−0·2	67·1	+0·3	24·5	84·6	26th	51·0	2nd
	Berhampore	67	30·013	+·032	30·063	30·126	2nd	29·946	31st	59·8	56·3	76·7	+0·2	54·5	+1·0	65·6	+0·6	22·2	81·2	26th	49·2	29th
	IV.—Bihar and Orissa.																					
6	Balasore	50	30·047	+·016	30·045	30·142	1st	29·912	31st	60·0	56·1	80·5	−0·2	56·0	−0·2	68·3	−0·2	24·5	84·7	15th	48·5	3rd
	Hukitala (False Point)	29	30·067	+·021	30·038	30·155	3rd	29·975	31st													
	Cuttack	80	30·019	+·023	30·044	30·101	3rd	29·922	30th	63·2	60·6	80·4	−3·4?	60·6	+0·4	70·5	−1·5?	19·8	84·3	29th & 31st.	53·8	3rd
	Puri	24	30·083	+·031	30·048	30·156	2rd	30·000	31st	67·0	63·8	80·5	+0·5	64·3	+0·7	72·4	+0·6	16·2	84·7	26th	58·0	3rd
	Angul	455	29·630	+·035	30·054	29·711	2nd	29·534	31st	62·6	58·0	80·9	−1·0	55·7	−0·2	68·3	−0·6	25·2	85·8	31st	48·8	3rd
	Sambalpur	486	29·603	+·018	30·064	29·677	3rd	29·510	30th	61·7	56·7	81·0	−1·0	54·7	−0·6	67·9	−0·8	26·3	84·8	26th	49·5	3rd
7	Chaibasa	*733*	29·340	+·022	30·071	29·428	8th	29·238	30th	55·4	52·2	75·8	−1·1	51·5	−1·0	65·1	−1·1	27·3	82·9	28th	41·3	3rd
	Ranchi	2,133	27·911	+·038	30·071	27·996	3rd	27·810	30th	56·1	49·1	73·3	−0·5	51·5	+0·1	62·4	−0·2	21·8	78·4	26th	45·5	2nd
	Purulia	*816*	28·262	+·028	30·075	29·302	8th	29·149	31st	58·9	52·0	80·7	+3·2?	53·9	0	67·3	+1·6?	26·8	80·5	9th & 23rd.	48·3	2nd
	Daltonganj	*730*	29·368	+·027	30·104	29·470	2nd	29·244	31st	50·3*	48·4*	77·0*	+1·6	45·4*	−1·5	61·2*	+0·1	31·6	87·6	26th	39·6	2nd
8	Purnea	124	29·971	+·018	30·059	30·074	2nd	29·880	31st	52·5	51·0	76·1	+1·8	48·3	+0·3	62·2	+1·1	27·8	80·7	23rd	42·6	29th
	Monghyr	155	29·947		30·065	30·058	2nd	29·854	31st	56·4	52·1	74·0		51·9		62·9		22·1	78·2	27th	47·9	27th
	Darbhanga	165	29·940	+·034	30·069	30·040	2nd	29·842	30th	58·2	54·5	76·4	+3·6	47·7	−3·6?	62·1	0 ?	28·7	80·9	24th	41·9	18th
	Pusa	188	29·902		30·059	30·005	2nd	29·802	31st	52·6	50·9	76·7		47·3		62·0		29·4	81·6	27th	42·5	29th
	Patna	183	29·928	+·031	30·078	30·022	2nd	29·814	30th	56·6	52·0	73·4	+0·7	51·2	+0·5	62·3	+0·6	22·2	79·1	27th	47·2	11th & 16th.
	Buxar	239	29·868	+·030	30·079	29·974	2nd	29·741	31st	54·4	51·0	73·5	−0·4	49·1	−1·2	61·3	−0·8	24·4	84·1	8th	43·6	1st
	Gaya	372	29·743	+·041	30·091	29·851	2nd	29·623	31st	56·4	51·1	75·2	−0·2	51·7	+0·2	63·5	0	23·5	79·9	14th	47·0	3rd
	Naya Dumka	489	29·604	+·034	30·073	29·698	1st	29·502	30th	59·8	54·3	77·1	+1·7	51·9	+0·7	64·5	+1·2	25·2	81·4	25th	46·6	2nd
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·839	+·038	30·073	29·948	2nd	29·735	30th	50·9	48·7	73·2	+0·6	47·6	−1·4	60·4	−0·4	25·6	78·9	27th	42·8	29th
	Benares	267	29·841	+·034	30·081	29·944	2nd	29·701	31st	54·2	51·2	74·5	+0·5	46·5	−1·5	60·5	−0·5	28·0	80·7	26th	41·5	2nd
	Allahabad	309	29·834	+·067?	30·118	29·931	2nd	29·671	31st	53·7	49·7	75·1	+0·9	47·3	−0·6	61·2	+0·1	27·8	80·9	26th	41·8	2nd
	Cawnpore	416	29·695	+·048	30·101	29·787	21st	29·549	31st	50·4	48·1	73·6	+0·1	47·1	+0·4	60·4	+0·3	26·5	79·6	26th	42·1	2nd
	Lucknow	368	29·736	+·039	30·091	29·851	21st	29·593	31st	51·4	48·7	74·5	+1·1	46·7	0	60·6	+0·5	27·8	80·5	25th	42·0	2nd
	Bahraich	407	29·678	+·035	30·078	29·781	2nd	29·568	30th	50·3	48·3	73·3	+1·1	46·7	−0·6	60·0	+0·3	26·6	79·0	25th	41·8	27th
10	Jhansi	824	29·278	+·039	30·113	29·372	21st	29·098	31st	54·4	50·3	76·2	+0·3	48·4	−3·1?	62·3	−1·4?	27·8	85·4	31st	39·8	2nd
	Agra	556	28·561	+·048	30·116	29·665	21st	29·369	31st	54·8	50·3	72·4	−0·4	48·1	−0·5	60·3	−0·5	24·3	80·4	31st	43·0	1st
	Mainpuri	516	29·574	+·010	30·090	29·677	2nd	29·409	31st	49·8	46·6	72·6	+0·9	45·2	−1·0	58·9	−0·1	27·4	80·0	26th	40·6	4th
	Bareilly	568	29·515	+·047	30·092	29·623	2nd	29·391	31st	50·3	47·6	70·4	+0·2	45·6	−0·5	58·0	−0·1	24·8	77·1	26th	41·1	2nd
	Roorkee	899	29·177	+·053	30·150?	29·309	12th	29·024	30th	46·8	45·6	67·6	−1·3	42·7	−1·2	55·1	−1·3	24·9	73·4	26th	37·1	10th
	VI.—Punjab.																					
11	Delhi	718	29·371	+·039	30·108	29·468	21st	29·193	30th	50·6	46·7	68·2	−1·7	48·0	+0·3	58·1	−0·7	20·3	73·5	25th	43·4	5th
	Hissar	725	29·354	+·053	30·136	29·481	20th	29·192	30th	47·0	44·4	69·9	−0·2	41·3†	−1·4	55·7†	−0·8	28·6	77·7	25th	37·2	26th

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

* Mean of 26 days.
† „ „ 30 „

B—*continued.*

at 211 stations in India, etc., in January, 1920—*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 1919 to 31st Jan. 1920.	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	0	0	0	0	0	0	0	Calm.	N 14° W	0·7	1·2	−0·5			77	− 2	·404	−·029	2·3	+0·7	0	− 0·9	0	0·40	− 0·40	0	0·62	− 0·62	0	Jessore.
24	3	0	0	0	0	0	0	4	N 26° W	N 3° W	1·0	1·2	−0·2	23	− 3	74	− 1	·365	−·021	3·2	+1·0	0	− 0·7	0	0·36	− 0·36	0	0·53	− 0·53	0	Burdwan.
19	5	1	1	0	0	1	2	2	N 21° W	N 67° W	1·0	1·2	−0·2	20	− 6	80	− 6	·418	−·002	2·1	0	0	− 0·9	0	0·37	− 0·37	0	0·51	− 0·51	0	Berhampore.
																															IV.—Bihar and Orissa.
15	9	1	0	0	0	0	0	6	N 14° W	N 27° W	1·0	2·0	−1·0	46	− 4	77	− 4	·395	−·048	3·1	+1·6	0	− 1·0	0	0·54	− 0·54	0	0·78	− 0·78	0	Balasore.
0	12	11	0	1	0	3	1	3	N 10° E	N 28° W	4·5	4·3	+ 0·2	62	− 6					6·4	+3·8	0	− 0·8	0	0·48	− 0·48	0	1·15	− 1·15	0	Hukitala (False Point).
50	0	0	0	0	0	0	1	0	W	N 8 W	0·9	1·0	−0·1	3	− 7	85	+ 4	·496	+·013	4·6	+2·5	0	− 0·6	0	0·23	− 0·23	0	0·55	− 0·55	0	Cuttack.
0	17	12	0	0	0	0	0	2	N 15° E		5·6			90		83	+ 1	·554	−·003	3·2	+1·7	0	− 0·6	0	0·30	− 0·30	0·07	0·65	− 0·58	0	Puri.
11	0	0	0	0	0	0	6	14	N 58° W		2·7			61		74	− 6	·424	−·017	2·8	+0·7	0	− 0·7	0	0·46	− 0·46	0	0·77	− 0·77	0	Angul.
0	15	7	0	1	1	0	0	7	N 2° E	N 32° E	3·0	1·9	+1·1	76	+ 2	72	− 1	·394	−·031	2·6	+0·5	0	− 0·8	0	0·35	− 0·35	0	0·59	− 0·59	0	Sambalpur.
25	0	0	0	0	1	5	0	0	S 38° W	S 68° W	1·0	0·9	+0·1	20	−20	79	− 6	·351	−·032	3·0	+1·3	0	− 1·3	0	0·68	− 0·68	0	0·89	− 0·89	0	Chaibasa.
13	2	0	0	1	0	0	6	9	N 57° W	N 73° W	2·9	3·8	−0·9	46	+10	58	− 7	·263	−·045	2·9	+0·6	0	− 1·4	0	0·67	− 0·67	0	0·88	− 0·88	0	Ranchi.
18	1	0	0	0	0	2	5	5	N 73° W		0·5			32		60	−13	·248	−·061	3·4	+1·2	0	− 1·5	0	0·73	− 0·73	0	0·87	− 0·87	0	Purulia.
26	0	1	2	2	0	0	0	0	S 75° E		1·8			13		87*	+ 6	·319*	−·020	1·8	−0·2	0	− 1·8	0	0·81	− 0·81	0	1·04	− 1·04	0	Daltonganj.
10	1	0	0	0	0	8	10	2	S 79° W	S 74° W	1·7	1·5	+0·2	56	+27	89	− 2	·355	−·001	3·8	+2·2	0	− 0·8	0	0·41	− 0·41	0	0·55	− 0·55	0	Purnea.
8	0	0	0	0	0	21	2	0	S 49° W		2·0			74		75		·234		2·2		0	− 0·5	0	0·24	− 0·24	0	0·70	− 0·70	0	Monghyr.
24	0	0	0	0	0	0	7	0	W	S 84° W	0·9	1·9	−1·0	23	− 8	78	−10	·381	+·003	1·3	−0·5	0	− 1·1	0	0·49	− 0·49	0	0·58	− 0·58	0	Darbhanga.
12	0	0	0	0	1	10	5	2	S 67° W		2·2			48		88		·351		2·4		0	− 0·4	0	0·12	− 0·12	0·02	0·25	− 0·23	0	Pusa.
14	0	0	0	0	0	11	6	0	S 60° W	S 70° W	1·8	1·8	−0·2	53	+ 5	71	− 7	332	−·029	2·5	+0·4	0	− 1·1	0	0·55	− 0·55	0·02	0·65	− 0·63	0	Patna.
9	0	0	0	1	0	10	10	1	S 68° W		1·9			58		78	+ 4	·329	−·009	3·3	+0·9	0	− 1·3	0	0·67	− 0·67	0·24	0·88	− 0·64	0	Buxar.
26	0	0	0	0	0	2	2	1	S 80° W	S 16° W	1·0	2·2	−1·2	13	−19	69	− 6	·319	−·030	2·2	−0·1	0	− 1·2	0	0·64	− 0·64	0	0·79	− 0·79	0	Gaya.
31	0	0	0	0	0	0	0	0	Calm.		1·2					68	− 7	·349	−·003	1·5	−0·2	0	− 1·0	0	0·49	− 0·49	0	0·61	− 0·61	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
19	0	0	0	0	0	0	12	0	W	N 84° W	1·2	1·2	0	39	+ 3	85	+ 3	·321	−·026	1·7	−0·3	0	− 1·4	0	0·72	− 0·72	0·14	0·87	− 0·73	0	Gorakhpur.
20	0	0	1	0	0	1	3	6	N 63° W	S 49° W	1·2	2·1	−0·9	23	−13	81	− 2	·337	−·009	2·6	+0·4	0	− 1·5	0	0·67	− 0·67	0·06	0·90	− 0·84	0	Benares.
17	0	0	0	0	1	1	11	1	S 85° W	N 74° W	1·3	2·8	−1·5	40	+14	74	− 5	·305	−·025	3·2	+0·7	0	− 1·7	0	0·76	− 0·76	0·05	1·01	− 0·96	0	Allahabad.
10	2	0	1	2	1	1	8	6	N 73° W	N 79° W	1·6	2·2	− 0·6	37	+ 5	84	+ 5	·308	−·003	1·1	−0·8	0	− 1·5	0	0·57	− 0·57	0·10	0·76	− 0·66	0	Cawnpore.
26	0	0	0	0	0	1	0	4	N 58° W	N 84° W	1·0	1·6	−0·6	10	−19	82	+ 1	·314	+·001	1·8	−0·7	0	− 1·5	0	0·83	− 0·83	0·05	1·14	− 1·09	0	Lucknow.
22	3	0	1	0	0	0	3	2	N 38° W	N 45° W	1·5	1·6	−0·1	17	− 6	85	− 2	·318	−·022	2·5	+0·6	0	− 2·1	0	1·03	− 1·03	0·72	1·33	− 0·61	0	Bahraich.
17	1	0	0	0	2	8	1	2	S 57° W	N 68° W	1·9	1·5	+0·4	30	+12	73	+ 8	·312	+·010	1·1	−0·6	1	− 0·3	0·28	0·62	− 0·34	0·50	0·87	− 0·37	0·27	Jhansi.
16	0	2	2	0	1	4	3	2	S 70° W	N 56° W	1·8	2·6	−0·8	10	−22	70	− 1	·301	+·024	2·5	−0·1	1	− 0·4	0·37	0·55	− 0·18	0·57	0·84	− 0·27	0·37	Agra.
20	2	0	0	1	1	0	2	5	N 51° W	N 59° W	1·0	1·2	−0·2	23	− 5	77	0	·276	−·005	2·2	−0·9	0	− 1·5	0·02	0·66	− 0·64	0·55	1·04	− 0·49	0·01	Mainpuri.
24	0	0	0	0	0	0	4	3	N 71° W	N 45° W	1·0	1·6	−0·6	23	− 2	81	− 2	·255	−·004	2·4	−0·4	0	− 2·3	0	1·06	− 1·06	1·40	1·39	+ 0·01	0	Bareilly.
23	0	0	0	0	0	0	0	8	N 45° W	N 53° W	1·4	1·5	−0·1	20	+ 4	90	+ 5	·239	+·013	2·5	−0·6	1	− 2·0	0·35	1·70	− 1·35	1·01	2·27	− 1·26	0·34	Roorkee.
																															VI.—Punjab.
11	0	0	0	2	0	1	11	6	N 82° W	S 87° W	1·1	2·1	−1·0	49	+14	72	+ 4	·267	+·010	2·3	−1·1	1	− 1·2	0·41	1·08	− 0·67	0·97	1·51	− 0·54	0·41	Delhi.
4	1	0	4	1	5	6	6	1	S 22° W	N 36° W	3·5	2·5	+1·0	37	+26	80	+ 4	·259	+·013	2·5	−0·9	1	− 0·7	0·33	0·73	− 0·40	1·27	1·03	+ 0·24	0·23	Hissar.

* Mean of 25 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*	29·232	+·013P	30·084P	29·367	12th	29·071	30th	47·5	46·0	67·7	+0·1	44·7	+1·2	56·2	+0·7	23·0	73·8	25th	40·0	4th
	Ambala	892	29·172	+·039	30·110	29·310	12th	29·016	30th	46·8	45·2	68·4	+0·4	43·8	+0·7	56·1	+0·5	24·6	72·6	25th	38·4	10th
	Ludhiana	812	29·264	+·042	30·114	29·389	12th	29·103	30th	46·8	45·3	65·8	−0·6	44·5	+0·3	55·1	−0·1	21·3	71·3	25th	39·0	5th
	Lahore	702	29·376	+·032	30·113	29·503	20th	29·195	31st	44·6	43·5	66·8	−1·6	42·6	+1·5	54·7	−0·1	24·2	71·1	8th	36·7	10th
	Sialkot	830	29·247	+·040	30·120	29·371	12th & 20th	29·109	31st	46·4	45·6	63·9	−1·9	42·1	−0·9	53·0	−1·4	21·8	68·5	25th	36·3	10th
	Rawalpindi	1,674	28·381	+·031	30·157	28·494	12th	28·244	31st	43·1	41·6	60·0	−2·4	38·5*	+0·8	49·6*	−0·8	21·2	66·6	19th	33·1	10th
12	Khushab	612	29·494	+·042	30·132	29·623	12th	29·338	30th	47·3	44·7	68·7	+1·2	41·3	0	55·0	+0·6	27·4	74·2	4 days	36·2	8th & 10th.
	Lyallpur	605	29·452		30·111	29·598	12th	29·315	30th	45·2	43·5	66·7		41·0		53·9		25·7	70·8	4th	36·6	8th
	Montgomery	558	29·536	+·029	30·113	29·653	20th	29·335	30th	47·1	44·5	67·8	−0·6	42·7	+1·4	55·2	+0·4	25·1	72·5	11th	36·4	10th
	Multan	426	29·692	+·032	30·119	29·810	12th	29·479	30th	48·7	46·3	69·7	0	45·9	+2·6	57·8	+1·3	23·8	74·6	11th	41·5	9th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·992	+·029	30·181	29·119	12th	28·831	30th	42·9	40·9	60·9	−2·1	39·9	+0·8	50·4	−0·9	21·0	68·2	3rd	34·7	17th
	Dera Ismail Khan	590	29·537	+·034	30·151	29·677	12th	29·364	31st	46·4	4[illegible]·8	69·3	+0·7	42·0	+1·8	55·6	+1·3	27·3	74·8	11th	35·9	7th
	VIII.—Sind.																					
16	Jacobabad	186	29·951	+·036	30·116	30·109	12th	29·689	30th	49·4	44·3	73·0	0	44·0	+0·8	58·5	+0·4	29·0	78·1	18th & 3[illegible]th.	39·4	27th
	Hyderabad	96	30·032	+·026	30·087	30·158	13th	29·808	30th	54·0	51·3	76·3	+0·1	50·7	+0·1	63·5	+0·1	25·6	82·8	17th	45·0	14th
	Karachi	13	30·120	+·025	30·083	30·236	13th	29·912	30th	61·2	53·9	76·3	+0·6	57·8	−0·7	67·0	−0·1	18·5	81·6	19th	51·6	26th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·336	+·046	30·128	29·441	13th & 20th.	29·117	30th	50·6	44·9	73·4	+2·0	44·3	−4·2P	58·9	−1·1P	29·1	79·4	30th	38·9	2nd & 27th.
	Jodhpur	780	29·311	+·030	30·099	29·413	13th	29·117	30th	56·0	47·5	78·2*	+2·1	51·8	+2·2	64·9*	+2·1	26·4	82·8	30th	44·3	1st
18	Jaipur	1,431	28·657	+·044	30·134	28·748	21st	28·480	30th	53·2	46·7	74·1	+0·1	47·4	−0·4	60·8	−0·1	26·7	80·5	31st	39·2	1st
	Ajmer	1,611	28·462	+·027	30·140	28·562	21st	28·272	30th	47·7	44·4	72·2	−1·2	45·1	−0·5	58·7	−0·8	26·6	80·2	31st	39·2	2nd
	Kotah	832	29·258	+·028	30·093	29·359	21st	29·100	30th	58·5	52·5	76·1	−0·7	53·0	+2·1	64·6	+0·7	23·1	87·8	31st	45·6	1st & 4th.
	X.—Bombay.																					
19	Deesa	466	29·613	+·025	30·056	29·692	21st	29·478	30th	62·6	53·0	85·5	+2·5	54·7	+3·5	70·1	+3·0	30·8	87·8	5th	46·8	28th
	Bhuj	334	29·748	+·011	30·050	29·851	12th	29·608	30th	61·7	57·0	80·4	+0·8	51·4	−3·0	65·8	−1·1	29·0	85·8	11th	43·3	27th
	Jamnagar	61	30·033	+·003	30·042	30·111	12th	29·923	30th	63·3	58·6	80·4	+1·8	53·4	+0·1	66·8	+0·3	27·0	85·1	11th	46·6	28th
	Dwarka	37	30·042	−·008	30·025	30·141	12th	29·909	30th	66·7	60·4	79·8	+2·5	61·2	+1·9	70·5	+2·2	18·6	85·9	23rd	55·7	28th
	Rajkot	429	29·614	−·016	30·012	29·712	12th	29·523	30th	62·9	55·0	84·4	+0·9	57·9	+7·2	71·1	+4·1	26·5	89·3	11th	49·4	28th
	Veraval	*18*	30·030	−·011	29·991	30·123	12th	29·971	30th	67·8	61·0	81·7	+0·5	64·6	+5·8	73·2	+3·1	17·1	87·1	21st	56·6	17th
	Bhavnagar Para	55	30·004	−·010	30·007	30·097	12th	29·920	30th	63·5	57·5	83·2	−0·3	57·9	+3·5	70·5	+1·6	25·3	90·0	31st	49·2	28th
	Surat	39	30·014	−·003	29·997	30·094	12th	29·951	30th	66·7	61·7	84·7	−1·9	62·6	+5·7	73·6	+1·9	22·1	89·0	15th	55·1	27th
	Ahmadabad	163	29·925	+·018	30·043	30·018	21st	29·897	30th	67·5	59·8	86·0	+2·0	61·4	+4·3	73·7	+3·1	24·6	90·2	15th	53·9	29th
25	Bombay	37	29·987	−·016	29·965	30·065	8th	29·928	6th	73·7	69·1	84·6	+2·1	72·0	+4·1	78·3	+3·1	12·6	88·1	29th	68·0	20th
	Ratnagiri	207	29·789	−·022	29·937	29·869	8th	29·750	30th	78·3	67·5	90·0	+3·1	72·1	+5·7	81·0	+4·4	17·9	94·9	13th	66·9	24th
	Marmagao	*60*	29·948	−·011	29·943	30·027	8th	29·908	30th	74·4	70·1	84·8	−0·1	72·7	+3·0	78·8	+1·5	12·1	86·6	28th	68·0	23rd
	Karwar	44	29·974	+·001	29·953	30·043	8th	29·928	30th	70·7	67·7	88·6	+2·2	68·8	+3·0	78·7	+2·6	19·8	91·3	5th	63·2	23rd & 24th.

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

* Mean of 30 days.

B—*continued.*

at 211 stations in India, etc., in January, 1920—*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. 1919 to 31st Jan. 1920.	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.*
8	2	3	1	4	0	0	9	4	N 56° W		3·3			26		89	+10	·292	+·017	2·3	−1·0	2	−0·7	0·67	1·41	−0·74	1·30	1·75	−0·45	0·54	Patiala.
17	3	0	2	2	0	0	3	4	N 29° W	N 48° W	2·6	1·4	+1·2	17	−1	88	+3	·232	+·004	3·9	+0·4	1	−2·4	0·69	1·62	−0·93	2·22	2·21	+0·01	0·62	Ambala.
22	1	0	0	0	0	0	3	5	N 55° W	N 59° W	1·1	1·2	−0·1	27	+8	89	+7	·285	+·016	2·6	−1·2	2	−0·9	1·07	1·82	−0·75	2·37	2·51	−0·14	0·81	Ludhiana.
25	0	2	1	1	0	0	1	1	N 45° E	N 88° W	0·8	1·2	−0·4	3	0	92	+8	·273	+·019	3·5	−0·2	2	−0·2	1·22	1·09	+0·13	1·88	1·47	+0·41	0·86	Lahore.
22	1	2	2	2	0	0	0	2	N 54° E	N 49° E	0·7	0·9	−0·2	10	+2	94	+13	·296	+·034	2·5	−0·7	2	−1·1	0·81	2·21	−1·40	3·24	2·86	+0·38	0·53	Sialkot.
10	0	2	0	0	1	6	11	1	S 79° W	N 40° W	2·0	1·5	+0·5	49	+35	88	+6	·246	+·021	3·0	−1·5	4	+0·1	1·93	2·65	−0·72	4·93	3·65	+1·28	0·80	Rawalpindi.
25	0	1	2	0	0	0	2	1	N	N 18° E	1·6	2·1	−0·5	5	−6	80	+12	·261	+·051	4·1	+1·1	1	−0·7	0·50	0·81	−0·31	2·61	1·22	+1·39	0·50	Khushab.
15	0	2	1	2	2	5	2	2	S 37° W		1·3			17		87		·263		5·5		1	−0·3	0·68	0·50	+0·18	1·66	0·69	+0·97	0·66	Lyallpur
5	3	2	2	3	3	3	5	5	N 82° W	N 18° E	2·8	2·5	+0·3	17	+3	81	+10	·262	+·035	2·9	−0·4	2	+0·3	0·82	0·60	+0·22	1·27	0·93	+0·34	0·71	Montgomery.
21	0	3	2	2	1	0	0	2	N 75° E	N 45° E	1·1	0·9	+0·2	13	−10	83	+12	·283	+·041	1·0	−1·9	2	+0·7	0·59	0·41	+0·15	1·62	0·66	+0·96	0·32	Multan.
																															VII.—North-West Frontier Province.
28	1	0	1	0	0	1	0	0	N 45° E	S 18° W	0	1·8	−1·8	1	−38	84	+12	·233	+·031	3·7	−0·9	5	+2·9	3·06	1·58	−1·48	7·41	2·08	+5·33	1·03	Peshawar.
22	0	3	0	0	0	0	0	6	N 18° W	N 37° W	0·7	1·0	−0·3	20	+2	73	+2	·229	+·019	3·3	+0·1	0	−1·4	0·16	0·52	−0·36	0·77	0·72	+0·05	0·09	Dera Ismail Khan.
																															VIII.—Sind.
30	0	1	0	0	0	0	0	0	N 45° E	N 22° E	0·9	1·6	−0·7	3	−15	64	0	·224	+·005	0·9	−2·2	0	−0·8	0·06	0·28	−0·22	0·41	0·42	−0·01	0·04	Jacobabad.
30	1	0	0	0	0	0	0	0	N	N 7° E	0	5·1	−5·1	3	−48	81	+24?	·341	+·038	0·3	−2·4	1	+0·4	0·10	0·22	−0·12	0·15	0·28	−0·13	0·10	Hyderabad.
0	8	18	2	0	0	1	2	0	N 31° E	N 50° E	7·4	6·7	+0·7	76	+2	59	−4	·324	−·032	2·1	−0·4	1	−0·1	0·11	0·56	−0·45	0·23	0·69	−0·46	0·11	Karachi.
																															IX.—Rajputana.
9	2	2	3	10	4	0	0	1	S 57° E	N 22° W	2·7	2·7	0	43	+21	61	+5	·225	+·009	2·4	−0·7	0	−1·0	0	0·35	−0·35	0·05	0·55	−0·50	0	Bikaner.
11	0	20	0	0	0	0	0	0	N 45° E		2·8			66		49	+3	·220	+·025	2·9	−0·1	0	−0·4	0·11	0·15	−0·04	0·12	0·28	−0·16	0·09	Jodhpur.
12	3	8	2	0	0	2	1	3	N 18° E	N 6° E	2·5	2·4	+0·1	30	+1	59	−3	·235	−·014	2·5	−0·5	1	−0·1	0·98	0·46	+0·52	1·64	0·68	+0·96	0·98	Jaipur.
23	0	1	0	1	0	0	1	0	E	N 9° W	0·4	1·6	−1·2	1	−17	77	+6	·256	−·001	3·3	+0·6	1	−0·1	0·40	0·37	+0·03	1·00	0·68	+0·32	0·40	Ajmer.
25	1	0	1	2	0	0	0	2	N 45° E		0·8			3		64	+7	·319	+·068	2·6	+1·2	1	+0·2	0·18	0·27	−0·09	0·99	0·55	+0·44	0·18	Kotah.
																															X.—Bombay.
7	2	13	6	0	3	0	0	0	N 62° E	N 56° E	5·3	6·2	−0·9	56	−2	49	+2	·282	+·059	2·2	+0·6	0	−0·3	0	0·12	−0·12	0	0·17	−0·17	0	Deesa.
21	5	0	2	0	2	0	1	0	N 19° E	N 45° W	3·2	4·7	−1·5	10	−8	74	+14	·409	+·079	1·6	+0·1	0	−0·2	0	0·06	−0·06	0	0·10	−0·10	0	Bhuj.
0	0	11	15	0	2	1	1	1	N 74° E		0·2			68		75	+15	·426	+·115	0·6	−0·2	0	−0·2	0	0·03	−0·03	0	0·08	−0·08	0	Jamnagar.
2	11	14	2	0	0	1	0	1	N 26° E		9·0			76		68	−1	·451	+·003	1·3	−0·2	0	−0·1	0	0·04	−0·04	0	0·09	−0·09	0	Dwarka.
6	6	11	5	1	1	1	0	0	N 49° E	N 55° E	3·5	3·8	−0·3	56	+14	57	+5?	·334	+·054?	2·7	+1·6	0	−0·2	0·09	0·04	+0·05	0·09	0·08	+0·01	0·09	Rajkot.
5	12	10	1	1	0	0	0	2	N 20° E	N 20° E	4·8	4·3	+0·5	69	−6	66	+13	·455	+·126	2·5	+1·2	2	+2·0	0·49	0·02	+0·47	0·49	0·11	+0·38	0·27	Veraval.
2	2	2	2	1	1	3	6	12	N 57° W	N 85° W	0·9	5·0	−4·1	48	−17	67	+14	·401	+·120	3·4	+2·1	3	+3·0	3·06	0·03	+3·03	3·06	0·11	+2·95	1·72	Bhavnagar Para.
7	6	7	7	2	1	0	0	1	N 54° E	N 5° E	2·3	3·6	−1·3	56	+14	73	+9	·490	+·115	3·0	+2·1	3	+2·8	3·61	0·06	+3·55	3·61	0·10	+3·51	1·72	Surat.
6	0	17	5	1	0	0	0	2	N 52° E	N 48° E	3·5	3·1	+0·4	66	−5	61	+14	·420	+·153	3·3	+1·8	0	0	0	0·02	−0·02	0	0·05	−0·05	0	Ahmadabad.
1	7	11	10	1	0	0	0	1	N 50° E	N 58° E	6·0	7·2	−1·2	76	−5	78	+6	·651	+·100	2·4	+1·1	2	+1·9	0·99	0·08	+0·91	0·99	0·14	+0·85	0·73	Bombay.
3	1	4	11	9	2	1	0	0	S 75° E	S 88° E	6·3	5·6	+0·7	62	+7	55	−8	·531	+·033	2·1	+1·1	0	−0·2	0·06	0·10	−0·04	0·06	0·19	−0·13	0·06	Ratnagiri.
1	1	13	16	0	0	0	0	0	N 68° E	S 84° E	5·3	6·0	−0·7	89	+12	80	−2	·679	+·030	2·9	+1·6	0	0	0·01	0·03	−0·02	2·44	0·22	+2·22	0·01	Marmagao.
20	9	2	0	0	0	0	0	0	N 8° E	N 62° E	1·6	2·6	−1·0	33	−54	84	+3	·631	+·071	2·1	+1·2	0	−0·1	0	0·06	−0·06	0·59	0·30	+0·29	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. 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
	X.—Bombay *—concld.*																					
26	Malegaon	1,430	28·609	+·008	30·080	28·677	8th	28·533	30th	65·5	59·2	82·7*	−2·8*	57·4	+5·4	71·1*	+1·3	25·3	91·7	31st	48·5	2nd
	Ahmadnagar	2,154	27·890	+·005	30·019	27·956	8th	27·822	19th	65·2	58·2	83·1	−1·4	58·8	+6·5	70·3	+2·5	24·3	89·3	19th	50·8	2nd
	Poona	1,846	28·195	+·011	30·031	28·271	8th	28·121	19th	63·9	58·9	86·0	−0·2	58·0	+3·8	72·0	+1·8	28·0	91·0	11th	49·8	23rd
	Sholapur	1,590	28·440	+·002	29·998	28·520	8th	28·381	30th	69·7	66·4	86·5	−1·2	63·1	+4·3	74·8	+1·5	23·4	90·0	13th	56·8	24th
	Bijapur	*1,948*	28·091	+·017	30·002	28·159	8th	28·039	30th	68·9	61·1	84·1	−2·3	62·4	+2·5	73·2	+0·1	21·7	87·6	13th	54·3	23rd & 24th.
	Belgaum	2,562	27·474	+·001	29·987	27·553	8th	27·426	30th	66·0	59·7	82·8	−0·7	59·9	+2·3	71·3	+0·8	22·9	86·2	17th	52·0	29th
	XI.—Central India.																					
20	Neemuch	1,626	28·439	+·020	30·089	28·521	1st	28·203	30th	58·0	52·3	76·4	−0·9	51·4	+2·9	63·9	+1·0	25·0	82·9	31st	41·4	2nd
	Indore	1,823	28·232	+·024	30·061	28·318	21st	28·129	30th	62·8	57·0	78·3	−1·1	53·8	+4·2	66·1	+1·5	24·5	85·1	31st	45·1	1st
21	Nowgong	754	29·335	+·028	30·102	29·431	21st	29·165	31st	49·7	46·8	73·7	−0·5	46·1	−1·0	59·9	−0·7	27·6	81·0	31st	38·0	3rd
	Sutna	1,041	29·039	+·036	30·102	29·122	21st	28·900	31st	53·5	50·2	73·3	−1·3	48·2	+0·2	60·7	−0·5	25·1	80·3	31st	40·3	1st & 2nd
	XII.—Central Provinces.																					
22	Buldana	2,134								67·5	58·7	79·7	−1·6	59·4	+0·7	69·5	−0·5	20·3	84·8	31st	52·6	21st
	Akola	925	29·136	+·019	30·048	29·219	8th	29·045	31st	63·9	56·9	85·6	−0·1	57·7	+3·8	71·6	+1·9	27·9	91·9	31st	48·1	2nd
	Amraoti	1,215	28·835	+·016	30·039	28·922	8th	28·735	31st	66·0	57·3	83·7	−1·2	60·2	+2·0	71·9	+0·4	23·5	89·1	31st	55·4	3rd
23	Khandwa	1,044	29·015	+·020	30·056	29·087	8th	28·922	30th	62·6	58·2	82·1	−2·2	55·4	+3·2	68·7	+0·5	26·7	89·5	31st	45·5	3rd
	Hoshangabad	1,006	29·076	+·027	30·085	29·160	2nd	28·965	31st	59·2	54·3	78·3	−1·6	53·5	+1·4	65·9	−0·1	24·8	85·1	31st	44·0	3rd
	Saugor	1,807	28·217	−·014P	30·053	28·297	21st	28·081	30th	56·5	49·5	77·0	+0·3	53·1	+1·0	65·1	+0·7	23·9	86·0	31st	46·4	2nd
	Jubbulpore	1,327	28·718	+·011	30·068	28·799	21st	28·590	30th	55·9	51·1	76·6	−0·9	50·8	+2·5P	63·7	+0·8P	25·8	83·9	31st	40·7	3rd
	Seoni	2,033	28·033	+·037	30·083	28·107	21st	27·936	30th	59·7	52·9	76·1	−3·2P	53·0	+1·6	64·5	−0·8P	23·1	82·6	31st	45·3	3rd
	Nagpur	1,017	29·060	+·037	30·070	29·144	8th	28·963	30th	63·1	56·5	82·3	−1·4	56·9	+1·2	69·6	−0·1	25·4	87·9	31st	48·7	2nd
24	Pendra	2,040	28·029	+·044P	30·103	28·107	21st	27·922	30th	56·3	50·4	74·5	−1·5	45·6	−1·2	62·0	−1·3	24·9	79·9	31st	42·9	2nd
	Raipur	970	29·091	+·017	30·053	29·173	8th	29·000	30th	61·9	55·2	80·9	−0·7	55·9	+0·5	68·4	−0·1	25·0	85·9	31st	49·3	3rd
	Chanda	*634*	29·430	+·013	30·038	29·518	8th	29·344	31st	63·6	57·9	84·9	−0·6	55·8	+0·9	70·3	+0·1	29·1	90·3	31st	46·8	23rd
	Jagdalpur	1,813	28·242		30·064	28·328	8th	28·131	30th	59·9	56·6	81·5		53·4		67·4		28·1	86·0	26th	46·2	30th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·145	+·007	30·034	28·222	8th	28·078	19th	65·5	57·4	82·5	−2·7	59·5	+4·2	71·0	+0·7	23·0	86·6	31st	51·0	1st
	Nizamabad	1,248	28·800	+·040P	30·026	28·869	8th	28·734	31st	67·7	60·0	86·8	+1·2	58·7	+2·3	72·7	+1·7	28·1	91·0	30th	49·5	23rd
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·541	+·012	30·019	28·607	8th	28·490	25th, 26th & 30th.	68·1	60·5	87·3	−0·1	61·5	+1·5	74·4	+0·7	25·8	90·3	13th	53·7	23rd
	Raichur	*1,311*	28·731	+·031	30·008	28·797	8th	28·670	30th	71·1	64·5	85·7	−1·3	65·5	+1·0	75·6	−0·1	20·2	89·4	9th	59·4	23rd
	Hyderabad (Deccan)	1,719	28·333	+·021	30·030	28·405	8th	28·271	30th	66·9	61·8	81·1	−3·8P	61·7	+2·0	71·4	−0·9P	19·4	83·8	16th & 31st.	54·9	23rd
	Hanamkonda	877	29·184	+·025	30·027	29·232	2nd	29·117	30th	70·4	64·4	84·9	−0·8	63·5	+0·7	74·2	−0·1	21·4	89·0	30th	58·1	23rd
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·615	−·001	29·955	27·680	8th	27·570	26th	69·2	62·0	83·0	−1·7	63·1	+1·0	73·0	−0·3	19·9	87·7	27th	56·8	17th
	Hassan	3,149	26·919	+·016	29·978	27·001	8th	26·876	1st	66·0	61·6	80·4	−1·9	58·1	+2·6	69·2	+0·3	22·3	84·7	27th	50·6	14th
	Bangalore	3,021	27·038	0	29·987	27·113	8th	26·981	1st	64·8	61·2	79·3	−1·4	58·8	+1·4	69·1	0	20·5	84·5	26th	51·5	14th
	Mysore	2,518	27·510	−·009	29·957	27·580	8th	27·458	1st	68·8	63·2	82·8	−1·6	60·1†	−0·3	71·9†	−0·9	22·7	88·0	27th	54·9	14th

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

* Mean of 17 days.
† " " 24 "

B—*continued.*

at 211 stations in India, etc., in January, 1920—*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., 1919 to 31st Jan. 1920.	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.*
11	1	1	1	0	3	4	10	0	S 70° W	N 68° W	2·4	3·7	−1·3	40	−25	68	+15	·436	+·155	2·9	+1·7	4	+3·7	1·35	0·14	+1·21	1·35	0·35	+1·00	0·67	Malegaon.
20	0	1	0	4	1	1	1	3	S 11° W	N 5° W	3·6	4·3	−0·7	5	−2	64	+7	·404	+·075	2·6	+1·0	3	+2·8	2·32	0·12	+2·20	2·42	0·60	+1·82	1·22	Ahmadnagar.
15	0	0	10	6	0	0	0	0	S 73° E	S 70° W	4·3	4·5	−0·2	49	−19	74	+15	·417	+·130	4·7	+3·5	0	−0·2	0·15	0·16	+0·09	0·25	0·23	+0·02	0·06	Poona.
3	0	9	4	14	0	0	0	1	S 82° E	S 66° E	6·7	5·7	+1·0	62	+7	57	+10	·415	+·002	2·0	+0·5	1	+0·8	0·54	0·15	+0·39	0·54	0·65	−0·11	0·54	Sholapur.
19	0	1	1	2	7	1	0	0	S 16° E	S 59° E	0·8	3·1	−2·3	27	−17	63	−2	·444	+·006?	1·1	−0·7	0	−0·2	0·09	0·09	0	0·59	0·35	+0·24	0·19	Bijapur.
18	1	5	5	2	0	0	0	0	N 72° E	S 81° E	3·3	7·3	−4·0	33	−10	68	+9	·437	+·055	2·2	+0·6	0	−0·2	0·10	0·12	−0·02	0·47	0·53	−0·06	0·09	Belgaum.
																															XI.—Central India.
20	0	4	4	3	0	0	0	0	N 86° E	N 48° E	2·1	4·7	−2·6	30	−20	67	+11	·326	+·076	2·2	+0·5	1	+0·6	0·11	0·21	−0·10	0·21	0·40	−0·19	0·11	Neemuch.
14	1	3	2	5	0	0	0	0	S 87° E	N 36° E	2·0†	1·8	+0·2	32	+21	69	+8	·385	+·101	2·5	+0·5	3	+2·6	4·12	0·12	+4·00	4·17	0·36	+3·81	3·17	Indore.
18	2	1	3	2	0	3	0	2	N 72° E	N 56° W	0·6	1·0	−0·4	7	−19	79	+3	·281	−·020	2·7	+0·1	0	−1·6	0	0·63	−0·63	0·03	1·09	−1·06	0	Nowgong.
29	0	0	0	1	0	1	0	0	S	N 20° W	0·8	3·0	−2·2	5	−31	79	+8	·324	+·013	1·9	−0·6	0	−1·9	0·07	0·89	−0·72	0·07	1·27	−1·20	0·07	Satna.
																															XII.—Central Provinces.
1	0	1	12	11	1	1	2	2	S 66° E		3·5	4·2	−0·7	55		59		·360		3·5		2	+1·5	4·15	0·83	+3·32	4·15	0·84	+3·31	2·86	Buldana.
9	3	7	8	2	1	0	0	1	N 66° E	S 84° E	3·2	2·7	+0·5	49	+14	63	+9	·376	+·075	3·0	+1·2	4	+3·4	1·52	0·33	+1·19	1·52	1·01	+0·51	0·88	Akola.
0	0	15	14	0	0	2	0	0	N 69° E	N 88° E	4·7	3·1	+1·6	79	+18	56	+5	·368	+·038	2·8	+1·3	3	+2·4	1·43	0·40	+1·03	1·45	0·95	+0·50	0·62	Amraoti.
5	0	7	13	1	1	3	1	0	N 86° E	N 39° E	2·9	2·4	+0·5	49	+26	75	+20	·434	+·161	3·8	+2·3	2	+1·6	3·84	0·21	+3·63	3·87	0·52	+3·35	1·65	Khandwa.
12	0	19	0	0	0	0	0	0	N 45° E	N 63° E	1·4	2·0	−0·6	59	+2	71	+6	·364	+·056	2·3	+0·6	2	+1·2	1·68	0·25	+1·43	1·68	0·72	+0·96	1·20	Hoshangabad.
10	0	6	10	4	0	1	0	0	N 87° E	S 84° E	3·2	2·6	+0·6	53	+24	59	+4	·269	+·006	2·3	+0·5	1	−0·1	0·32	0·55	−0·23	0·48	1·03	−0·55	0·79	Saugor.
11	1	2	0	10	6	0	0	1	S 38° E	S 63° E	1·2	1·5	−0·3	43	+7	68	−7	·311	−·012	2·2	+0·2		+0·6	0·25	0·68	−0·43	0·25	0·97	−0·72	0·15	Jubbulpore.
13	8	7	0	1	1	1	0	0	N 25° E	N 39° E	2·4	1·9	+0·5	40	+6	62	−3	·320	−·006	2·2	+0·4	3	+1·8	1·74	0·51	+1·23	2·36	1·06	+1·30	0·83	Seoni.
8	4	13	5	1	0	0	0	0	N 50° E	N 13° E	2·6	2·6	0	62	+30	64	+4	·374	+·032	2·8	+1·0	1	+0·2	0·38	0·35	+0·03	0·45	0·93	−0·48	0·26	Nagpur.
25	3	0	0	0	0	0	0	3	N 23° W		1·6			20		64	0	·284	−·001	3·1	+1·1	0	−1·4	0	0·65	−0·65	0	1·00	−1·00	0	Pendra.
24	2	2	2	1	0	0	0	0	N 56° E	N 13° E	1·7	2·0	−0·3	17	+7	62	−2	·348	−·006	2·7	+0·9	0	−0·7	0	0·22	−0·22	0	0·48	−0·48	0	Raipur.
4	3	8	5	1	0	0	3	7	N 15° E	N 68° E	2·2	1·5	+0·7	43	+15	69	−1	·412	+·009	2·9	+1·2	0	−0·4	0	0·25	−0·25	0	0·51	−0·51	0	Chanda.
29	1	0	0	1	0	0	0	0	N 67° E		0·4			2		82		·422		1·6		1	+0·5	0·39	0·33	+0·06	0·94	0·48	+0·46	0·36	Jagdalpur.
																															XIII.—Hyderabad.
6	0	3	17	2	0	0	2	1	N 85° E		4·1			59		60	+12	·377	+·061	3·3	+2·3	2	+1·6	2·62	0·26	+2·36	2·65	0·57	+2·08	2·03	Aurangabad.
17	1	4	2	3	3	0	0	1	S 81° E		1·5			20		63	0	·422	−·010	2·6	+1·1	1	+0·7	0·44	0·24	+0·30	1·09	0·26	+0·83	0·35	Nizamabad.
																									0·23						Bidar.
3	1	13	10	2	1	1	0	0	N 71° E	S 86° E	4·5	5·2	−0·7	69	+37	64	+6	·442	+·044	1·6	+0·3	0	−0·3	0·02	0·17	−0·15	0·02	0·36	−0·34	0·02	Gulbarga.
7	0	3	7	8	4	2	0	0	S 56° E	S 55° E	5·1	5·9	−0·8	53		69	+7	·575	+·061	1·9	0	1	+0·8	0·44	0·10	+0·34	0·57	0·27	+0·30	0·28	Raichur.
20	0	2	3	5	1	0	0	0	S 68° E	S 51° E	2·3	2·6	−0·3	27	+2	74	+1	·491	+·034	2·6	+0·5	1	+0·6	1·17	0·21	+0·96	1·67	0·35	+1·32	1·17	Hyderabad (Deccan).
26	0	0	0	4	1	0	0	0	S 29° E		0·6			17		71	−1	·529	+·019	2·9	−0·3	0	−0·5	0	0·34	−0·34	0·19	0·56	−0·37	0	Hanamkonda.
																															XIV.—Mysore.
6	0	1	11	13	0	0	0	0	S 68° E	S 69° E	4·8	4·9	−0·1	72	+17	66	+4	·467	+·012	2·3	+0·3	1	+0·8	0·47	0·12	+0·35	0·62	0·49	+0·13	0·39	Chitaldrug.
5	0	3	18	5	0	0	0	0	S 88° E	S 80° E	3·5	2·1	+1·4	78	+9	78	+4	·501	+·026	3·5	+0·2	1	+0·8	0·20	0·05	+0·15	0·72	0·84	−0·12	0·20	Hassan.
2	0	4	20	4	0	0	1	0	E	N 87° E	5·6	3·9	+1·7	79	−3	83	+4	·502	+·029	4·0	+0·7	2	+1·6	0·44	0·25	+0·19	1·72	0·71	+1·01	0·28	Bangalore.
1	2	10	14	2	0	1	1	0	N 72° E	N 72° E	6·3	6·4	−0·1	72	+2	73	0	·513	+·017	2·5	−1·0	0	−0·2	0·09	0·13	−0·04	0·16	0·52	−0·36	0·16	Mysore.

* Wind direction of 25 days.
† „ „ „ 24 „

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. 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
	XV—Madras.																					
30	Mangalore	72	29·931	—·015	29·935	30·008	8th	29·858	2nd	77·8	70·4	90·0	+0·9	71·9	+3·3	80·9	+2·1	18·1	93·6	10th	67·2	14th & 15th.
	Calicut	27	29·964	—·013	29·920	30·058	8th	29·870	2nd	75·5	71·5	86·3	—1·1	71·9	+1·6	79·1	+0·3	14·4	88·8	3rd	67·1	17th
	Cochin	9	29·986	—·003	29·925	30·083	8th	29·878	1st	77·0	70·7	89·3	0	73·0	+1·2	81·2	+0·6	16·2	92·5	8th	69·1	22nd
	Trivandrum	198	29·792	+·013	29·922	29·909	8th	29·689	1st	75·0	71·9	83·5	—0·2	72·8	+0·3	78·1	+0·1	10·7	86·0	31st	69·5	24th
31	Pamban	37	29·970	—·018	29·931	30·032	8th	29·829	1st	77·9	74·9	83·5	+0·8	75·8	+1·3	79·7	+1·1	7·7	85·4	30th	74·3	6th
	Madura	447	29·585	+·002	29·972	29·683	8th	29·473	1st	75·2	71·1	85·7	—1·7	70·7	+1·9	78·2	+0·1	15·0	89·1	26th	66·3	31st
	Pudukkottai	318	29·722	+·007	29·977	29·781	8th	29·609	1st	74·5	70·2	85·0	—1·8	70·1	+2·4	77·6	+0·3	14·9	89·6	26th	66·2	31st
	Negapatam	31	29·993	—·005	29·953	30·066	8th	29·879	1st	76·2	72·3	83·0	+0·6	72·4	+1·0	77·7	+0·8	10·6	85·1	6th	68·2	6th
	Trichinopoly	255	29·780	—·004	29·972	29·860	8th	29·666	1st	75·8	71·6	86·4	—1·1	69·5	+2·0	77·9	+0·5	16·9	90·5	25th	64·3	13th
	Coimbatore	1,341	28·690	+·006	29·988	28·768	8th	28·610	1st	70·9	67·7	84·3	—2·4	66·1	+1·7	75·2	—0·3	18·2	90·4	27th	59·1	31st
	Salem	913	29·120	+·005	29·988	29·186	8th	29·015	1st	71·0	67·1	86·3	—2·3	66·7	+1·3	76·0	—0·5	20·6	90·6	27th	61·2	31st
	Cuddalore	37	30·006	0	29·970	30·080	8th	29·918	1st	74·8	71·6	82·5	—0·8	70·6	+2·6	76·6	+0·9	11·9	84·9	26th	66·7	30th
	Vellore	707	29·329	—·009	29·993	29·402	8th	29·254	1st	69·8	67·7	83·5	—1·2	65·9	+0·9	74·7	—0·1	17·6	88·2	26th	59·2	31st
	Madras	22	30·023	—·009	29·975	30·102	8th	29·958	1st	75·3	72·3	84·1	—0·6	69·8	+2·2	76·8	+0·8	14·3	87·2	18th	63·2	18th
32	Cuddapah	428	29·621	+·004	29·996	29·688	7th	29·558	25th	73·3	68·4	85·8	—3·1	67·[illegible]	+1·6	76·3	—0·7	18·8	90·4	6th	61·4	31st
	Bellary	1,475	28·563	+·013	30·001	28·634	8th	28·519	23rd	71·7	61·7	86·4	—1·8	64·0	+2·4	75·2	+0·3	22·4	90·1	29th	58·7	30th
	Kurnool	923	29·118	+·011	30·007	29·191	8th	29·063	25th	68·6	65·0	87·3	—1·4	64·1	+3·9	75·7	+1·3	23·2	91·2	28th	57·2	23rd
33	Nellore	66	29·986	—·003	29·988	30·065	8th	29·927	25th	73·2	71·7	83·5	—2·4	69·0	+2·0	76·3	—0·2	14·5	86·6	11th	64·5	31st
	Masulipatam	15	30·061	+·001	30·010	30·139	8th	29·937	23rd & 25th.	71·6	68·6	83·2	—0·3	67·1	+1·2	75·1	+0·5	16·1	85·3	12th	63·1	31st
	Cocanada	26	30·052	+·006	30·014	30·115	8th	29·965	23rd	71·3	67·0	81·0	—0·6	67·0	+0·7	74·0	+0·1	14·0	83·6	31st	63·6	21st
	Vizagapatam	38	30·033	+·002	30·010	30·114	8th	29·966	23rd	73·1	66·7	80·5	—0·3	69·2	—1·2	74·9	—0·8	11·3	82·6	29th	64·3	15th
	Calingapatam	19	30·067		30·024	30·137	2nd	29·991	26th	67·7	65·0	81·5		63·6		72·6		17·9	86·6	31st	58·8	21st
	Gopalpur	56	30·033	+·019	30·031	30·129	2nd	29·940	30th	66·4	62·5	80·4	+0·2	63·0	+0·8	71·7	+0·5	17·4	85·4	16th	57·8	3rd
	Bay stations.																					
1	P. V. Fraser	8	30·054		30·034	30·146	8th	29·959	31st	74·3*	68·7*											
	Port Blair	58	29·931	—·008	29·919	29·997	7th	29·873	23rd	79·2	74·0	84·7	—1·7	76·5	+0·9	80·6	—0·4	8·2	87·0	20th	71·3	7th & 9th
	Table Island	90	29·924	—·011	29·949	29·982	6th	29·872	30th	78·4	71·5	83·2	—0·3	76·4	+1·5	79·8	+0·6	6·8	86·5	26th	73·3	16th
	Kashmir.																					
13	Muzaffarabad		27·698			27·759	7th	27·635	30th	47·0	42·4	61·8		37·5		49·7		24·3	66·2	23rd	31·7	28th
	Srinagar	5,204	25·105	+·117	25·076	25·274	20th	24·796	30th	29·6		35·0	—5·6	27·6	+1·1	31·3	—2·3	7·4	43·0	26th	18·5	12th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·929	+·158	20·897	21·169	20th	20·540	30th	—4·7		15·4	—3·8	—13·5	—2·9	1·0	—3·3	28·9	30·2	31st	—28·0	10th
	Leh	*11,503*	19·755	+·106	19·723	19·978	21st	19·433	30th	14·4		32·9	+2·6	10·5	+2·0	21·7	+2·3	22·4	44·4	25th	3·8	20th
	Skardu	*7,505*	23·084	+·132	23·054	23·364	20th	22·643	30th	12·9		27·6	—6·9	8·2	—8·4	17·9	—7·7	19·4	33·8	27th	—1·7	8th
	Gilgit	4,890	25·429	+·157	25·402	25·655	7th	24·959	30th	35·1	34·3†	46·7	+1·1	31·9	—0·1	39·3	+0·5	14·8	52·2	16th & 18th.	26·2	9th

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

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

* Mean of 26 days.
† " " 10 "

B—*continued.*

at 211 stations in India, etc., in January, 1920—*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. 1919 to 31st Jan. 1920.	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	3	25	2	0	0	0	0	N 87° E	S 85° E	4·6	2·3	+2·3	96	+18	68	+ 2	·646	+·067	1·9	−0·3	0	−0·1	0	0·07	− 0·07	1·35	0·57	+ 0·78	0	Mangalore.
4	1	4	14	1	1	1	2	3	N 75° E	N 80° E	2·4	6·1	−3·7	43	−40	82	+ 4	·714	+·035	2·8	+1·1	2	+1·5	2·07	0·37	+ 1·70	3·49	1·52	+ 1·97	1·07	Calicut.
1	0	12	17	1	0	0	0	0	N 74° E	N 42° E	5·0	3·7	+1·3	89	+ 8	72	− 1	·669	+·016	2·3	+0·5	2	+1·3	0·44	0·59	− 0·15	3·15	2·35	+ 0·80	0·20	Cochin.
13	1	15	1	1	0	0	0	0	N 48° E	N 44° E	2·8	2·9	−0·1	53	+ 3	86	+ 9	·739	+·058	3·3	+0·2	3	+1·6	2·34	0·63	+ 1·71	12·15	3·03	+ 9·12	1·47	Trivandrum.
0	7	20	3	0	0	0	0	1	N 37° E	N 15° E	8·0	8·3	−0·3	89	+15	86	+ 1	·824	+·024	3·8	+0·1	7	+4·0	11·13	1·76	+ 9·37	22·93	9·40	+13·53	4·03	Pamban.
1	11	9	3	0	0	0	2	5	N 10° E	N 3° E	4·3	3·7	+0·6	72	− 7	81	+ 4	·708	+·047	4·8	+1·9	4	+3·1	4·36	0·45	+ 3·91	6·88	2·26	+ 4·62	2·51	Madura.
2	11	17	1	0	0	0	0	0	N 29° E		4·5			84		80	− 3	·682	−·007	4·4	−0·6	6	+4·6	6·03	0·83	+ 5·20	13·72	3·75	+ 9·97	2·17	Pudukkottai.
3	2	8	5	0	0	0	1	12	N 5° E	N 1° W	1·1	5·7	−4·6	53	− 8	82	+ 1	·729	+·009	4·3	−0·9	4	+1·6	2·89	1·61	+ 1·28	25·15	13·45	+11·70	1·80	Negapatam.
3	6	17	0	0	0	1	1	3	N 23° E	N 18° E	3·2	3·2	0	69	+21	80	+ 1	·717	+·056	2·9	−0·2	5	+4·0	6·18	0·54	+ 5·64	11·62	3·23	+ 8·39	2·64	Trichinopoly.
10	1	12	6	0	0	0	0	1	N 52° E	N 67° E	2·8	2·1	+0·7	56	−16	84	0	·637	+·011	3·7	−0·6	4	+3·1	2·76	0·55	+ 2·21	3·71	1·77	+ 1·94	1·34	Coimbatore.
16	2	9	3	0	0	0	1	0	N 45° E	N 50° E	2·5	3·5	−1·0	37	− 5	81	− 4	·615	+·001	3·2	+0·3	2	+1·5	1·18	0·30	+ 0·88	3·11	1·31	+ 1·80	0·99	Salem.
4	6	6	0	0	0	0	1	14	N 18° W	N 21° W	5·6	1·9	+3·7	69	−10	85	− 3	·737	+·015	3·6	+0·2	6	+4·2	12·84	1·22	+11·62	24·06	8·87	+15·19	5·13	Cuddalore.
30	0	0	1	0	0	0	0	0	E		2·0			3		89	+ 4	·653	+·033	2·0	0·9	5	+3·4	4·23	1·38	+ 2·85	6·21	4·53	+ 1·68	2·26	Vellore.
20	6	3	1	0	0	0	0	1	N 16° E	N 16° E	3·2	4·2	−1·0	30	−28	86	+ 2	746	+·037	4·1	+0·8	5	+3·5	7·08	1·14	+ 5·94	13·02	7·11	+ 5·91	3·93	Madras.
9	3	2	2	7	3	2	1	2	S 52° E	S 65° E				20	−34	77	+ 2	·631	+·033	3·1	+1·0	2	+1·6	3·47	0·34	+ 3·13	3·86	1·33	+ 2·53	3·21	Cuddapah.
3	0	1	7	14	4	1	1	0	S 49° E	S 36° E	2·7	2·6	+0·1	69	+27	67	+ 3	·523	+·072	2·4	0	1	+0·8	0·20	0·10	+ 0·10	0·25	0·22	+ 0·03	0·20	Bellary.
29	0	1	1	0	0	0	0	0	N 66° E	S 80° E	1·2			7	+ 3	81	+10	584	+·094	0·9	−0·4	1	+0·6	0·83	0·15	+ 0·68	0·83	0·42	+ 0·41	0·75	Kurnool.
7	4	2	3	1	0	1	2	11	N 25° W	N 51° W	2·1	2·7	−0·6	43	− 8	92	+ 5	·752	+·072	4·1	−0·2	6	+4·7	2·89	1·58	+ 1·31	14·23	4·58	+ 9·65	4·38	Nellore.
1	13	14	3	0	0	0	0	0	N 30° E	N 14° E	4·2	3·4	+0·8	86	+11	85	− 1	·658	−·005	2·5	+0·3	2	+1·7	1·05	0·21	+ 0·84	1·20	1·14	+ 0·06	0·80	Masulipatam.
12	5	13	0	0	0	0	0	0	N 31° E	N 7° W	7·1	5·7	+1·4	59	−22	79	+ 2	·607	+·020	3·5	+1·0	0	−0·3	0	0·15	− 0·15	0·34	1·12	− 0·78	0	Cocanada.
3	1	6	1	0	0	0	11	9	N 46° W	N 78° W	5·7			53	+ 4	70	− 2	·572	−·001	3·1	+0·6	0	−0·5	0	0·53	− 0·53	0·03	1·99	− 1·96	0	Vizagapatam.
4	8	2	0	0	0	0	5	12	N 34° W		5·4			71		86		·582		1·7		1	+0·3	0·30	0·23	+ 0·07	0·32	1·72	− 1·40	0·24	Calingapatam.
0	31	0	0	0	0	0	0	0	N	N 21° W	5·5	6·1	−0·6	100	+19	79	− 1	·516	−·011	2·8	+2·1	0	−0·4	0	0·21	− 0·21	0	1·05	− 1·05	0	Gopalpur.
																															Bay stations.
2	11	12	0	0	0	3	0	3	N 17° E					65		74*		·626*		2·8		0	−0·6	0	0·24	− 0·24	0	1·57	− 1·57	0	P. V. Fraser.
2	3	7	7	6	0	0	0	6	N 56 E	N 23° E	5·7	4·7	+1·0	46	−20	78	− 3	·769	−·020	3·7	−0·4	5	+3·0	4·81	1·62	+ 3·19	14·98	8·49	+ 6·49	2·53	Port Blair.
2	6	13	9	1	0	0	0	0	N 53° E		7·4			76		70	− 4	·684	−·025	3·4	−1·5	0	−0·7	0·01	0·86	− 0·85	0·76	3·17	− 2·41	0·01	Table Island.
																															Kashmir.
18	1	0	0	1	2	9	0	0	S 37° W		3·2			32		67		·217		4·1		6	−1·0	2·91	4·58	− 1·67	8·46	6·87	+ 1·59	1·25	Muzaffarabad.
16	0	0	1	7	1	2	1	3	S 15° E	S 26° E	1·8	2·3	−0·5	17	− 1					10·0	+2·3	6	−0·2	2·49	2·89	− 0·40	5·63	4·25	+ 1·38	0·70	Srinagar.
																															Gulmarg.
27	0	1	0	0	0	0	1	2	N 39° W		0·3			10						6·1	0	9	+0·1	3·43	2·98	+ 0·45	5·45	4·64	+ 0·81	0·95	Dras.
25	2	2	1	0	0	0	0	0	N 37° E	S 13° W	1·1	0·7	+0·4	17	−21					5·7	−1·0	1	−0·1	0·55	0·38	+ 0·17	0·72	0·55	+ 0·17	0·36	Leh.
17	0	0	5	1	0	3	5	0	S 27° W		1·1			10						7·1	+0·4	4	+1·1	1·01	1·02	− 0·01	1·78	1·40	+ 0·38	0·32	Skardu.
27	0	0	0	0	0	4	0	0	S 45° W		0·4			13		73†		·160†		5·5	−1·8	1	+0·1	0·26	0·25	+ 0·04	0·66	0·36	+ 0·30	0·20	Gilgit.

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

* Mean of 26 days.
† " 10 "

Tabl

(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. 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
	Baluchistan.																					
15	Fort Sandeman	4,614	25·502		25·471	25·004	3rd	25·347	30th	36·3	35·5*	58·4		31·6		45·0		26·8	62·5	19th	25·8	5th & 6th
	Quetta	5,502	24·713	+·019	24·673	24·840	3rd	24·474	11th	31·1	35·8‖	54·2	+3·3	27·2	−1·5	40·7	+0·9	27·0	62·1	21st & 29th.	19·7	26th
	Chaman	4,311	25·772	+·008	25·734	25·934	3rd	25·516	11th	40·3	39·0†	57·1	+4·6	34·3	−1·3	45·7	+1·7	22·8	64·8	30th	26·8	27th
	Kalat	6,630	23·749		23·711	23·855	3rd	23·560	11th	27·8		52·8	+2·1	24·4		38·6		28·4	63·0	27th	14·6	25th
	Dalbandin	2,772	27·260		27·223	27·435	3rd	27·042	30th	40·6	40·1‡	63·3		36·1		49·7		27·2	74·6	30th	27·5	6th
	Pasni		30·118		30·078	30·213	13th	29·926	30th	58·7	55·7	76·1		49·4		62·7		26·7	80·2	24th	44·7	26th
	Panjgur	3,177	26·854		26·812	26·982	3rd	26·672	30th	41·5	40·2§	63·5		38·4		50·9		25·1	71·6	29th	34·0	6th
	Seistan (c)		28·398			28·640	2nd & 3rd.	28·170	29th	38·9	33·5§§	59·7		35·6		47·6		24·1	69·1	20th	29·1	6th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·516	+·025	24·492	24·621	7th	24·344	30th	35·5	34·0‖	52·4	+2·7	30·7	+2·0	41·6	+2·3	21·7	60·4	11th	22·5	25th
	Cherat	*4,256*	25·823	+·055	25·791	25·920	12th	25·664	30th	44·8	39·9**	59·1	+0·7	41·6¶	+3·0	45·9	+1·9	8·5	56·2	20th	33·0	12th & 25th.
	Drosh (c)	4,500	25·271		25·490	25·490	7th, 9th & 12th.	24·975	30th	34·8	34·2††	41·6	−4·2	32·2	+1·6	38·4	−1·3	12·4	49·5	20th	27·4	1st
	Murree	6,333	24·054	+·073	24·022	24·143	22nd	23·863	30th	42·2	35·1‡‡	49·5	+3·1	35·7	+4·3	44·1	+3·7	10·8	54·7	th	27·4	25th
	Simla	7,232	23·166	+·071	23·128	23·278	12th	23·047	31st	43·9	35·0§§	51·5	+5·8	40·6	+5·5	46·1	+5·7	10·9	60·0	11th	35·1	26th
	Chakrata	6,922	23·424	?	23·384	23·537	12th	23·307	30th	46·5	37·4	56·7	+6·0	40·9	+5·0	48·8	+5·5	15·8	63·1	10th	35·1	26th
	Mukteswar	7,592	22·908	+·063	22·867	23·014	12th	22·822	30th	45·3	31·9‖‖	56·3	+6·5	38·0	+2·7	47·1	+4·6	18·3	63·7	11th	30·6	19th
	Darjiling	7,432	23·007	+·036	22·962	23·091	12th	22·693	30th & 31st.	40·8	37·3	51·3	+4·7	37·7	+3·0	44·5	+3·9	13·6	61·1	23rd	23·7	29th
	Shillong	4,920	25·234	+·044	25·186	25·326	21st	25·138	31st	46·8	43·1	62·3	+1·7	40·2	+1·7	51·2	+1·7	22·1	69·7	24th	32·7	28th
	Cherrapunji	4,309	25·784	+·034	25·735	25·841	12th & 21st.	25·713	30th	53·9	47·3	62·4	+3·0	47·4	+1·7	54·9	+2·3	15·0	69·6	24th	41·3	26th
	Netarhat		26·093		26·012	26·187	12th	26·046	24th	57·1	51·4	69·1		43·5		56·3		25·6	74·2	31st	39·3	5 days
	Maymyo	3,526	26·521	+·021	26·466	26·592	2nd & 4th.	26·430	31st	49·4	48·6	69·1	−1·7	46·0	+7·3	57·6	+2·8	23·1	74·0	27th	39·6	30th
	Pachmarhi	3,528	26·575	+·018	26·522	26·657	8th	26·483	30th	55·7	51·7	71·0	−0·7	48·6	+1·1	59·8	+0·2	22·4	76·5	31st	40·1	3rd & 28th
	Mount Abu	3,945	26·161	+·034	26·111	26·242	21st	26·046	3 th	59·1	49·7	67·8	+1·9	52·9	+1·9	60·3	+1·9	14·9	72·0	17th	45·9	27th
	Mercara	3,781	26·280	−·010	26·213	26·255	8th	26·210	1st	60·9	53·2	76·2	−1·6	56·9	−0·1	66·5	−0·9	19·3	81·0	27th	51·4	18th
	Ootacamund	*7,327*	23·093	+·008	23·029	23·174	8th	22·032	1st	53·0	47·4	63·0	−1·9	43·5	+0·3	53·2	−0·8	19·5	69·3	18th	35·4	20th
	Kodaikanal	7,638	22·855	−·010	22·790	22·920	8th	22·800	23rd	53·7	47·2	61·4	−1·6	45·9	−1·2	53·7	−1·4	15·5	67·7	27th	40·3	23rd
	Extra India.																					
	Singapore (a)	10	29·861	−·099	29·792	29·941	25th	29·566	1st & 3rd	80·2		85·5	−1·4	73·9	0	79·3	−0·7	12·5	89·5	25th, 29th & 30th.	70·5	15th & 16th.
	Penang (a)	17	29·802	−·123	29·744	29·939	16th	29·799	30 days	80·3		88·8	−0·5	72·0	−1·3	80·4	−0·9	16·8	91·5	28th	70·0	18th & 27th.
	Trincomalee	99	29·903	+·003	29·932	29·988	8th	29·783	1st	76·6	73·5	83·1	−0·3	74·6	+0·3	78·9	0	8·5	89·6	3rd	71·1	17th
	Colombo	24	29·953	−·007	29·903	30·026	8th	29·852	1st	72·2	70·6	86·2	−1·4	71·8	−0·4	79·0	−0·9	14·4	91·3	30th	66·7	30th
	Hambantota	64	29·912		29·903	29·989	8th	29·825	1st	73·1	70·6	84·4		72·4		78·4		12·0	88·3	30th	69·6	4 days.
	Minicoy	7	30·004	+·019		30·063	8th	29·913	2nd													
	Aminidivi	*13*	29·986	−·013	29·927	30·068	3rd	29·901	2nd	81·4	75·3	87·2	+1·8	73·6	−0·6	80·4	+0·6	13·6	89·6	26th & 28th.	69·5	23rd
	Gyantse	13,110																				
	Phari Jong	14,400																				
	Gangtok	5,760	21·358	−·154	24·313	24·438	22nd	24·248	30th	46·3	42·5	60·6	+3·1	43·7	+12·5	52·1	+7·3	16·9	69·1	23rd	39·8	28th

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 2,200 feet.

* Mean of 17 days.
† " " 21 "
‡ " " 26 "
§ " " 27 "
‖ " " 12 "

¶ Mean of 29 days.
** " " 14 "
†† " " 30 "
‡‡ " " 24 "
§§ " " 25 "
‖‖ " " 22 "

3—*continued.*

t 211 stations in India, etc., in January, 1920—*continued.*

Wind direction. Number of winds from N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st Dec. 1919 to 31st Jan. 1920. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																														Baluchistan.
5	0	0	2	1	1	2	0	0	S 22° E		1·6			10		73*		·168*		3·3		2	−0·6	0·76	0·82	−0·06	1·31	1·21	+0·10	0·40	Fort Sandeman.
1	0	0	1	2	4	1	1	1	S	N 13° W	2·0	2·1	−0·1	17	+12	85†	0	·194†	?	4·3	+0·5	3	−1·8	0·89	2·01	−1·12	1·81	2·93	−1·12	0·30	Quetta.
8	0	0	6	6	1	0	0	0	S 63° E	S 58° E	1·7	5·0	−3·3	37	−23	67‡	− 4	·187‡	+ ·009	4·5	−0·5	3	−1·0	1·55	1·53	+0·02	2·70	2·61	+0·09	0·99	Chaman.
3	1	0	0	1	7	8	0	1	S 26° W	S 30° W	4·0			46	− 3					3·1		4	+0·4	0·77	1·31	−0·54	1·99	2·35	−0·36	0·45	Kalat.
5	4	7	0	0	1	1	2	1	N 11° E		3·1			27		83§		·234§		4·3		1	−0·3	0·91	0·58	+0·33	1·93	0·96	+0·47	0·91	Dalbandin.
4	7	2	3	0	0	0	1	14	N 19° W		5·2			62		82		·406		1·4		2	+0·3	3·68	1·12	+2·56	4·83	1·53	+3·00	3·56	Pasni.
5	0	16	7	0	0	0	1	2	N 51° E		4·6			68		81‖		·223‖		2·6		1		1·34			1·72			1·28	Panjgur.
9	3	1	1	0	0	0	1	6	N 25° W		4·2			27		82¶		·212¶		3·4		3		0·48			1·32			0·16	Seistan.
																														Hill stations, excluding Kashmir and Baluchistan.
1	0	0	0	0	0	0	0	0	Calm		0·1					74**		·160**		4·4	+0·4	7	+2·4	2·45	2·26	+0·19	3·98	3·47	+0·51	0·55	Parachinar.
5	19	0	0	0	2	0	0	5	N 10° W	N 12° W	13·2	9·8	+3·4	69	− 1	40	−17	·110	−·036	4·0	−0·2	6	+1·9	4·01	2·62	+1·39	9·86	3·97	+5·89	1·35	Cherat.
9	0	0	2	0	0	0	0	0	E		3·0			6		80††		·171††		4·9	+0·7	3	+0·1	0·98	0·92	+0·06	2·88	1·93	+0·95	0·75	Drosh.
0	0	2	2	9	8	0	0	0	S 37° E	S 62° E	5·8	6·6	−0·8	53	+ 4	44‡‡	−18	·119‡‡	−·017	4·7	−0·2	5	−1·0	2·31	3·99	−1·68	4·73	5·48	−0·75	1·09	Murree.
																36§§	−17	·100§§	−·020	3·8	−1·0	2	−2·8	1·61	2·79	−1·18	2·55	4·00	−1·45	0·96	Simla.
5	0	16	8	1	0	1	0	0	N 63° E	N 34° E	6·7	4·2	+2·5	69	+24	44	−15	·129	−·003	3·0	−0·9	3	−2·3	0·96	4·43	−3·47	2·91	5·74	−2·83	0·42	Chakrata.
3	1	6	6	1	0	0	13	1	N 28° W		6·0			20		35‖‖	−20	·097‖‖	−·029	3·1	−0·7	1	−2·9	0·30	2·21	−1·91	0·53	2·99	−2·46	0·27	Mukteswar.
5	0	2	2	2	0	0	0	0	E	S 57° E	1·3	2·7	−1·4	15	− 8	78	− 3	·197	+·010	4·2	+0·1	0	−1·4	0·01	0·61	−0·60	0·01	0·89	−0·88	0·01	Darjiling.
9	0	0	1	1	0	0	0	0	S 66° E		0·5			7		74	+ 4	·237	+·019	2·2	+0·8	1	+0·2	0·12	0·37	−0·25	0·24	0·60	−0·36	0·10	Shillong.
2	2	9	5	1	0	0	1	1	S 51° E		2·0			43		51	−11	·251	−·020	2·7	+0·8	0	−1·3	0	0·54	−0·54	0·02	0·96	−0·94	0	Cherrapunji.
0	3	5	3	2	2	2	2	12	N 22° W		3·7			36		68		·321		1·4		0		0						0	Netarhat.
1	0	0	0	0	0	0	0	0	Calm		0·7					95	+ 7	·335	+·020	2·6	+0·2	1	+0·6	0·12	0·11	+0·01	0·89	0·75	+0·14	0·12	Maymyo.
3	0	1	5	1	5	2	1	3	S 25° E	S 3° E	2·4	2·6	−0·2	17	− 1	77	+16	·344	+·056	2·0	+0·1	2	+0·8	2·25	0·55	+1·70	2·25	1·06	+1·19	1·30	Pachmarhi.
6	2	7	0	0	0	4	1	1	N 5° E	N 2° W	2·9	3·8	−0·9	15	− 3	51	+ 8	·255	+·059	2·3	+0·4	1	+0·4	0·13	0·28	−0·15	0·13	0·42	−0·29	0·13	Mount Abu.
2	2	14	13	0	0	0	0	0	N 62° E	N 74° E	4·4	3·6	+0·8	82	+ 8	85	+ 6	·456	+·014	4·0	−0·1	0	−0·3	0·11	0·17	−0·06	0·31	0·95	−0·64	0·06	Mercara.
5	0	1	8	13	4	0	0	0	S 55° E		3·4			69		86	+12	·272	+·045	2·7	+0·3	6	+4·4	4·81	1·43	+3·38	7·07	3·59	+3·48	1·78	Ootacamund.
	4	4	8	7	2	0	2	3	N 81° E		8·3			40		67	+ 9	·265	+·029	2·8	−0·2	6	+2·3	8·77	2·43	+6·34	13·16	7·45	+5·71	3·03	Kodaikanal.
																														Extra India.
4	9	18	0	0	0	0	0	0	N 31° E					82						7·1	+2·1	10	−4·2	15·28	12·33	+2·95	22·59	23·47	−0·88	4·61	Singapore.
	20	9	0	0	0	0	0	2	N 10° E					92						5·8	+4·9	0	−6·0	0	3·76	−3·76	5·51	9·86	−4·35	0	Penang.
2	4	11	6	1	0	3	4	0	N 43° E	N 30° E	5·5	5·6	−0·1	40	−25	86	+ 1	·781	−·019	5·6	+1·6	6	−1·4	3·46	5·58	−2·12	23·06	19·85	+3·21	1·27	Trincomalee.
7	5	8	0	1	0	0	0	0	N 33° E	N 37° E	3·5	6·3	−2·8	40	−41	92	+12	·726	−·047	4·2	+1·2	4	−0·8	2·56	3·50	−0·94	11·32	9·05	+2·27	1·65	Colombo.
1	14	16	0	0	0	0	0	0	N 24° E		7·5			92		88		·716		3·7		7		2·66	3·33	−0·67	9·64	8·90	+0·74	0·82	Hambantota.
4	7	3	4	2	1	0	0	0	N 45° E	N 42° E	2·8	4·7	−1·9	32	−33					2·5	−0·7	4	+1·5	3·25	1·70	+1·55	7·69	5·29	+2·40	1·25	Minicoy.
4	11	9	3	1	0	0	1	2	N 24° E		2·9			65		75	+ 2	·799	+·015	3·5	−0·5	4	+3·2	2·51	0·46	+2·05	6·61	1·59	+5·02	1·10	Amini Divi.
																															Gyantse.
																															Phari Jong.
	1	6	0	0	0	0	0	0	N 39° E		0·5			23		75	− 3	·234	−·001	3·8	+0·7	1	−1·7	0·52	0·91	−0·39	0·52¶¶	2·03	−1·51	0·18	Gangtok.

¶¶ Rainfall for December 1919 wanting.

* Mean of 17 days.
† „ „ 12 „
‡ „ „ 21 „
§ „ „ 26 „
‖ „ „ 27 „
¶ „ „ 25 „

** Mean of 12 days.
†† „ „ 14 „
‡‡ „ „ 29 „
§§ „ „ 24 „
‖‖ „ „ 21 „

Tabl

(2) Abstract of observations taken at 8 hr

Number of Sub-division.	Station.	Height of bar-ostern 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	25·696	−·034		26·150	18th	25·058	30th	20·7		39·8	+6·4	16·1	+4·3	28·0	+5·3	23·7	57·8	27th	2·8	1th
	Kabul (c)																					
	Meshed	3,104								29·9	37·1*	48·4	+4·8	26·9	+4·6	37·7	+4·7	21·5	63·9	19th	9·5	3rd
	Jask	13	30·113	+·024	30·079	30·217	2nd	29·955	30th	62·8	59·3	74·3	+0·5	57·6	−3·0	66·0	−1·3	16·7	77·3	19th	50·7	11th
	Muscat	20	30·124	+·010	30·092	30·208	2nd	29·993	30th	67·9	63·0	75·6	+2·1	66·0	−1·1	70·8	+0·5	9·6	79·4	17th	61·0	11th
	Bushire	14	30·126	+·018	30·102	30·251	22nd	29·955	19th	55·0	52·1	64·8	+0·4	51·9	+0·5	58·4	+0·5	12·9	77·1	19th	46·3	31st
	Busrah	25																				
	Ispahan (c)	*5,817*	24·227	−·013		24·410	2nd	24·020	19th	29·4	†	47·5	+0·2	27·2	+3·4	37·3	+1·8	20·3	58·4	19th	19·2	10th, 11th & 12th.
	Tehran (c)	*4,002*	25·747	−·153		26·000	9th	25·450	19th	34·1	35·7†	47·3	+3·7	31·2	+5·1	39·3	+4·4	16·1	54·5	17th	27·0	10th 11th.
	Baghdad	125	30·010	−·046	30·121	30·229	22nd	29·763	18th	41·3	39·2†	58·6	−0·9	40·2	+2·0	49·4	+0·5	18·4	66·2	25th	33·9	29th
	Aden	94	29·967	−·017	29·995	30·027	8th	29·888	30th	74·5	69·1	79·3	−0·8	72·9	+0·4	76·1	−0·2	6·4	81·8	22nd	67·9	12th 13th.
	Zanzibar	72	29·925	+·009	29·923	29·972	12th	29·863	31st	81·9	76·3	86·7	+0·6	80·2	+0·8	83·4	+0·7	6·5	88·9	31st	77·4	5th

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 7 days.
† " 11 "

3—*concluded.*

t 211 stations in India, etc., in January, 1920—*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 Dec. 1919 to 31st Jan. 1920.	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
																															Extra India—*concld.*
0	1	0	0	0	0	0	0	0	N	N 56° W	1·6	0·4	+1·2	3	0					5·5	+0·4	0	−0·9	0·05	0·19	−0·14	0·05	0·28	−0·23	0·05	Kashgar.
										N 82° W															1·21			1·64			Kabul.
1	0	0	0	0	0	0	0	0	Calm		1·5					93	+10	·213	+·077	5·8	+1·2	5	+3·1	1·87	0·71	+1·16	3·68	1·43	+2·25	0·65	Meshed.
0	11	13	4	1	0	0	0	2	N 31° E	N 13° E	7·2	8·8	−1·6	79	+ 8	80	+ 8	·463	+·055	2·0	−1·7	4	+1·8	2·08	0·89	+1·19	4·75	2·03	+2·72	1·26	Jask.
21	0	0	0	2	0	0	0	8	N 45° W	S 59° W	3·4	3·5	−0·1	20	−13	75	+ 7	·514	+·029	3·0	+0·2	1	−0·9	0·25	1·08	−0·83	0·25	1·69	−1·44	0·13	Muscat.
5	6	6	4	2	0	0	0	8	N 16° E	N 58° E	6·5	5·8	+0·7	49	− 5	81	− 4	·353	+·006	3·7	−0·5	7	+2·7	4·65	2·64	+2·01	6·21	5·70	+0·61	2·04	Bushire.
																												2·40			Busrah.
27	1	0	0	1	0	1	1	0	S 66° W	S 79° W	0·9	2·3	−1·4	4	−28	72*	?	·172*	?	2·3	−0·8	4	+2·1	1·81	0·67	+1·14	3·09	1·49	+1·60	1·00	Ispahan.
7	10	4	0	0	0	0	0	0	N 13° E	N 16° E	2·4	2·1	+0·3	42	− 4	81†	+ 2	·186†	+·051	3·7	−0·4	6	+1·9	1·68	1·63	+0·05	3·25	2·92	+0·33	0·38	Tehran.
5	1	5	2	3	0	2	11	2	N 69° W	N 8° W	4·7	2·3	+2·4	23	− 2	80†	+ 5	·213†	−·016	4·4	+1·6	0	−2·6	0·06	1·14	−1·08	1·23	2·32	−1·09	0·03	Baghdad.
2	5	19	4	0	0	0	0	0	N 43° E	N 80° E	9·8	9·9	−0·1	79	+ 5	75	− 1	·610	−·011	7·1	+1·2	0	−0·9	0	0·36	−0·36	0·10	0·47	−0·37	0	Aden.
2	12	13	2	0	1	0	1	0	N 27° E	N 23° E	5·7	5·7	0	71	− 6	78	− 3	·852	−0·23	7·5	+0·9	0	−5·3	0	3·08	−3·08	4·69	8·55	−3·86	0	Zanzibar.

* Mean of 4 days.
† „ 30 „

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in January, 1920.

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	55·2	53·0	75·5	+2·7	46·7	+1·8	61·1	+2·3	28·8	79·9	27th	41·7	12th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	61·6	58·3	79·5	+4·7	44·2	−3·7	61·9	+0·5	35·3	80·4	13th	43·4	5 days	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	56·6	55·5	80·5	+2·6	42·9	−6·4	61·7	−1·9	37·6	99·8	10th	31·0	29th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	52·5	51·3	76·4	+12·3	49·4	+4·3	62·9	+8·3	27·0	80·1	21st	44·2	3rd	...	...	...	...	...	...	...	...	...	...	...
	Dikom	53·6	52·1	76·9	+5·4	47·8	+2·4	62·3	+3·9	29·1	80·8	13th	41·4	3rd	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	54·9	53·9	73·6	+1·5	47·9	...	60·7	...	25·7	76·9	27th	42·2	30th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	56·3	55·6	79·6	+2·3	53·2	+2·5	66·4	+2·4	26·4	83·8	23rd	44·6	29th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	55·4	54·2	75·3	+2·9	54·6	+5·4	64·9	+4·1	20·7	79·7	28th	44·9	5th	...	...	...	...	...	...	...	...	...	...	...
	Lumding*	55·9	54·5	76·0	...	47·3	...	61·6	...	28·7	79·9	28th	41·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Messa	60·8	56·4	79·8	+0·5	46·4	+1·8	63·1	+1·1	33·4	81·8	22nd	40·6	27th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	54·6	53·3	76·9	+2·5	47·6	+1·4	62·3	+1·9	29·3	81·9	13th	39·3	28th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	62·5	58·4	80·6	+2·9	51·3	−1·6	65·9	+0·7	29·3	82·6	15th	46·9	29th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	65·9	60·9	78·7	+1·4	51·0	+0·7	64·9	+1·1	27·7	83·5	19th	45·3	17th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	60·5	56·7	80·1	+0·9	52·9	+1·9	66·5	+1·4	27·2	85·0	28th	48·2	1st	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dum Dim	50·6	49·5	77·5	−3·2	44·8	+1·0	61·2	−1·1	32·6	89·2	13th	39·8	28th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	59·2	56·0	78·3	+3·2	47·4	+1·8	62·9	+2·5	30·9	82·1	23rd & 25th.	42·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	56·2	58·7	78·0	+3·7	51·7	−0·1	64·9	+1·8	26·3	81·6	13th	47·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Mean of 26 ays.

C.

and fifth class stations in India, etc., in January, 1920.

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 1919 to 31st January 1920.	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.
...	...	...	...	...	86	− 8	·376	+ ·013	...	...	2	− 0·2	1·07	0·96	+ 0·11	1·90	1·43	+ 0·47	0·57	Bishnath.
...	...	...	...	...	80	−11	·442	+ ·088	...	...	2	+ 0·2	0·75	0·72	+ 0·03	1·48	0·95	+ 0·53	0·55	Borjuli.
...	...	...	...	...	95	+ 1	·432	+ ·016	...	...	1	− 0·8	0·13	1·38	− 1·25	0·13	1·84	− 1·71	0·13	Chandkhira.
...	...	...	...	...	93	− 2	·369	+ ·018	...	...	1	− 2·5	0·51	1·62	− 1·11	0·82	2·15	− 1·33	0·40	Doom Dooma.
...	...	...	...	...	90	− 6	·372	+ ·029	...	...	2	− 2·0	0·47	1·41	− 0·94	0·47	1·98	− 1·51	0·35	Dikom.
...	...	...	...	...	93	+ 1	·404	+ ·013	...	...	1	− 2·1	0·22	1·00	− 0·78	0·26	1·54	− 1·28	0·15	Golaghat.
...	...	...	...	...	96	+ 2	·427	+ ·029	...	...	0	− 1·7	0·07	1·54	− 1·47	0·07	2·06	− 1·99	0·07	Hailakandi.
...	...	...	...	...	92	− 3	·405	+ ·006	...	...	0	− 2·5	0·02	1·14	− 1·12	0·13	1·80	− 1·67	0·02	Jorebat.
...	...	...	...	...	91	...	·408	...	...	...	0	− 1·0	0	0·47	− 0·47	0·55	0·77	− 0·22	0	Lumding.
...	...	...	...	...	74	− 4	·397	+ ·021	...	...	1	− 0·4	0·15	0·65	− 0·50	0·15	1·19	− 1·04	0·10	Messa.
...	...	...	...	...	91	− 4	·394	+ ·062	...	...	0	− 1·2	0	0·39	− 0·39	0	0·82	− 0·82	0	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·9	0·04	0·32	− 0·28	0·04	0·58	− 0·54	0·04	Comilla.
...	...	...	...	...	77	−10	·434	− ·031	...	...	1	0	0·14	0·29	− 0·15	0·14	0·73	− 0·59	0·14	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·0	0	0·49	− 0·49	0	0·63	− 0·63	0	Faridpur.
...	...	...	...	...	74	−12	·466	+ ·060	...	...	0	− 0·8	0	0·25	− 0·25	0	0·58	− 0·58	0	Goalundo.
...	...	...	...	...	78	− 3	·411	+ ·001	...	...	0	− 0·6	0	0·32	− 0·32	0	0·59	− 0·59	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·35	− 0·35	0	0·47	− 0·47	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·9	0	0·35	− 0·35	0	0·42	− 0·42	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·0	0	0·59	− 0·59	0	0·65	− 0·65	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·9	0	0·38	− 0·38	0	0·43	− 0·43	0	Rangpur.
...	...	...	...	...	91	− 5	·340	+ ·011	...	...	0	− 1·1	0	0·49	− 0·49	0	0·70	− 0·70	0	Dam Dim.
...	...	...	...	...	80	0	·409	+ ·014	...	...	1	+ 0·1	0·21	0·40	− 0·19	0·21	0·78	− 0·57	0·21	Kalchini.
...	...	...	...	...	62	−19	·396	+ ·021	...	...	1	− 0·2	0·14	0·62	− 0·48	0·14	0·99	− 0·85	0·14	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·5	0	0·21	− 0·21	0	0·34	− 0·34	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·0	0	0·49	− 0·49	0	0·60	− 0·60	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·1	0	0·43	− 0·43	0	0·52	−0·52	0	Bankura.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·1	0	0·48	− 0·48	0	0·60	− 0·60	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·5	0	0·69	− 0·69	0	0·92	− 0·92	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·1	0	0·52	− 0·52	0	0·63	− 0·62	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·2	0	0·57	− 0·57	0	0·64	− 0·64	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·2	0	0·52	− 0·52	0	0·68	− 0·68	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·3	0	0·60	− 0·60	0·07	0·73	− 0·66	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·2	0	0·65	− 0·65	0	0·82	− 0·82	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·3	0	0·58	− 0·58	0·01	0·83	− 0·82	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of Sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
1	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	56·8	...	77·7	...	51·8	...	64·7	...	25·9	82·9	26th & 31st.	42·7	3rd	31	0	0	0	0	0	0	0	0	Calm	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	70·5	68·9	85·3	...	64·5	...	74·9	...	20·8	90·5	27th	55·3	31st	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	71·8	67·7	87·1	...	66·6	...	76·9	...	20·5	90·2	25th 26th & 27th	63·0	13th & 15th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	58·2	55·1	77·2	...	52·0	...	64·6	...	25·2	81·3	26th	44·7	2nd	...	...	.	...	..	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	51·2	48·3	65·2	...	47·9	...	56·5	...	17·3	71·1	8th	43·7	1st	0	12	6	8	0	0	1	0	4	N 27° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...
	Kargil	12·5	...	26·3	...	−6·5	...	9·9	...	32·8	34·5	25th	−19·4	28th	10	0	0	0	15	0	4	0	2	S 27° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	6[illegible]·1	53·5	76·2	+2·9	54·0	+1·9	65·1	+2·4	22·2	80·3	22nd & 25th	47·6	28th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	57·6	55·6	62·3	+6·0	47·9	+3·1	55·1	+4·5	14·4	68·3	6th	42·4	30th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	..	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
	Poo	...	...	39·1	−1·0	20·7	−2·1	29·9	−1·5	18·4	46·3	25th	12·2	1st	7	2	2	4	2	2	4	6	2	S 72° W	...
	Kaliang	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	55·4	+4·2	22·3	−2·9	38·9	+1·1	33·1	62·7	29th	14·8	19th	...	...	...	...	...	..	...	..	...	...	...

C—*continued.*

and fifth class stations in India, etc., in January, 1920—*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 1919 to 31st January 1920.	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	−1·4	0·54	1·26	−0·72	1·20	1·70	−0·50	0·50	Meerut.
...	...	...	...	...	...	...	...	...	...	...	2	−1·8	0·30	2·35	−2·05	1·89	3·16	−1·27	0·17	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	2	...	0·52	...	...	1·62	...	...	0·35	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0	0·13	−0·13	0·02	0·23	−0·21	0	Udaipur.
																				XII.—Central Provinces.
0·3	...	...	...	...	...	...	...	...	2·5	...	3	+2·1	4·22	0·52	+3·70	4·71	1·14	+3·57	2·65	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	1	+0·7	0·50	0·09	+0·41	0·50	0·39	+0·11	0·50	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	5	+3·0	5·47	1·13	+4·34	9·03	5·39	+3·64	2·42	Tinnevelly.
...	...	...	...	...	92	...	·687	...	2·0	...	2	+1·8	1·04	0·03	+1·01	1·42	0·30	+1·12	0·82	Anantapur.
...	...	...	...	...	80	...	·624	...	...	...	1	+0·4	0·82	0·28	+0·54	3·09	0·28	+2·81	0·82	Guntur.
...	...	...	...	...	82	...	·404	...	...	...	1	...	0·39	...	...	0·39	...	...	0·39	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	3	−1·6	1·76	4·43	−2·67	14·28	11·99	+2·29	1·28	Car Nicobar.
																				Kashmir.
...	...	...	65	...	81	...	·303	...	3·3	...	2	−3·0	0·63	3·26	−2·63	3·64	3·93	−0·29	0·44	Jammu.
...	...	...	...	...	...	...	...	...	...	...	9	−2·9	7·35	11·53	−4·18	13·11	17·36	−4·25	2·16	Sonamarg.
...	...	...	45	...	...	...	...	...	5·7	...	4	−1·3	1·42	1·99	−0·57	1·88	2·78	−0·90	0·44	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	3	+0·5	0·78	1·15	−0·37	1·02	1·83	−0·81	0·25	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	62	−7	·321	−·017	...	...	0	−0·9	0	0·52	−0·52	0	0·99	−0·99	0	Panighatta.
...	...	...	...	...	94	+18	·449	+·202	...	...	1	−0·4	0·34	0·51	−0·17	0·34	1·07	−0·73	0·34	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	0	−2·4	0·06	1·72	−1·66	1·01	3·12	−2·11	0·06	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	0	−1·7	0·05	0·45	−0·40	0·25	1·05	−0·80	0·03	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·28	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	2	...	1·45	...	...	3·08	...	...	0·98	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	2	−2·2	0·56	2·81	−2·25	2·04	3·83	−1·79	0·35	Mussooree.
...	...	...	10	...	...	...	...	...	3·6	−1·7	6	+0·7	1·49	2·18	−0·69	2·93	2·95	−0·02	0·37	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·95	...	...	4·00	...	...	Kailang.
...	...	...	...	...	...	...	...	...	4·1	...	5	+1·0	1·50	1·88	−0·38	3·14	3·13	+0·01	0·44	Pishin.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

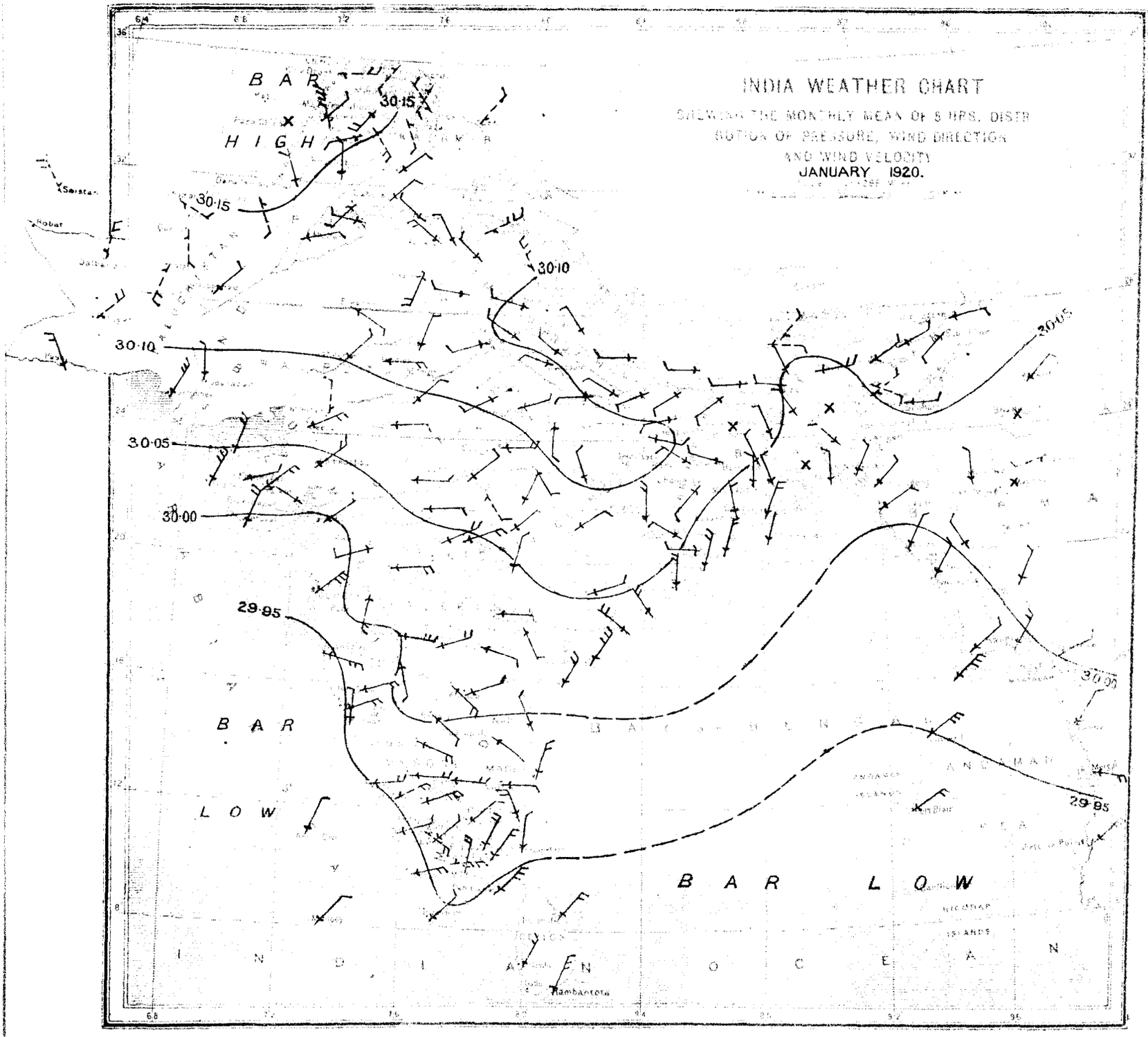
Number of Sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily 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.																								
	Chumbi. . . .	24·7	·9	47·2	...	19·5	...	23·4	...	27·7	52·7	3rd	15·0	17th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	54·5	·6	61·8	...	46·6	...	55·7	...	18·2	72·0	16th	38·0	10th	0	17	1	0	0	13	0	0	0	N 9° E	...

C—*concluded.*

and fifth class stations in India, etc., in January, 1920—*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. 1919 to 31st January 1920.	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.
...	...	...	...	...	...	...	...	...	2·3	...	0	—1·4	0	0·37	—0·37	0	0·48	—0·48	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	2	—2·9	0·41	2·74	—2·33	9·85	9·62	+0·23	0·18	Pomba.
...	...	...	17	...	77	...	·321	...	...	...	3	...	1·16	...	...	2·77	...	...	0·53	Abadan.

SGPI-21-IV-5—(7)-14-11-22-325.

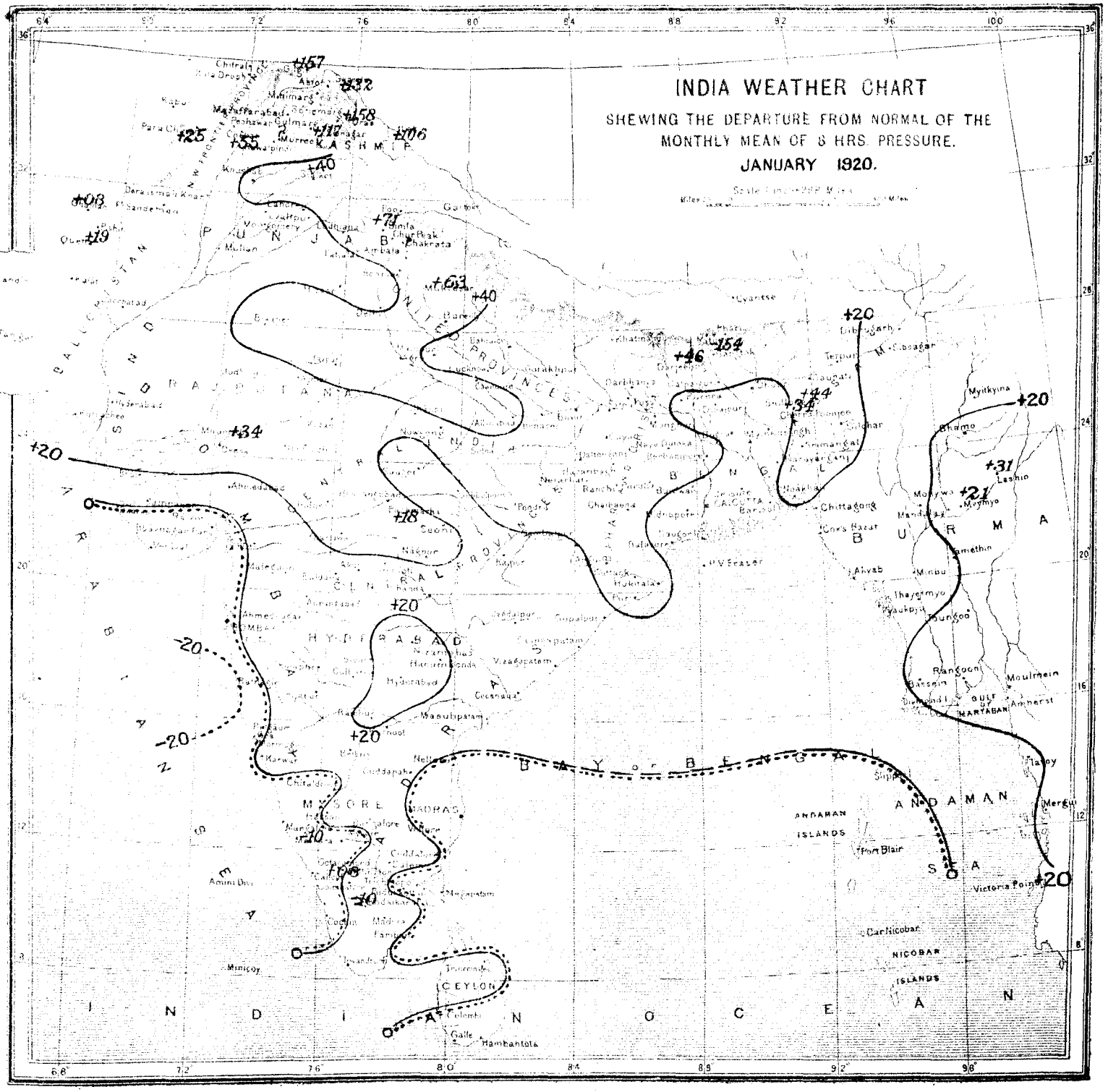


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

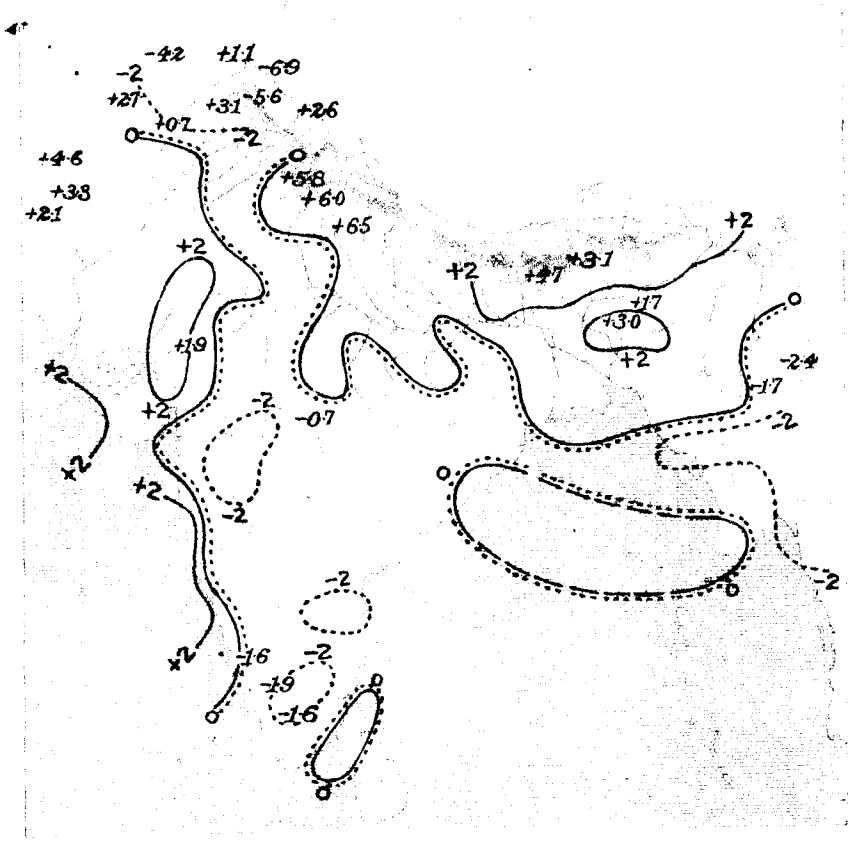


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

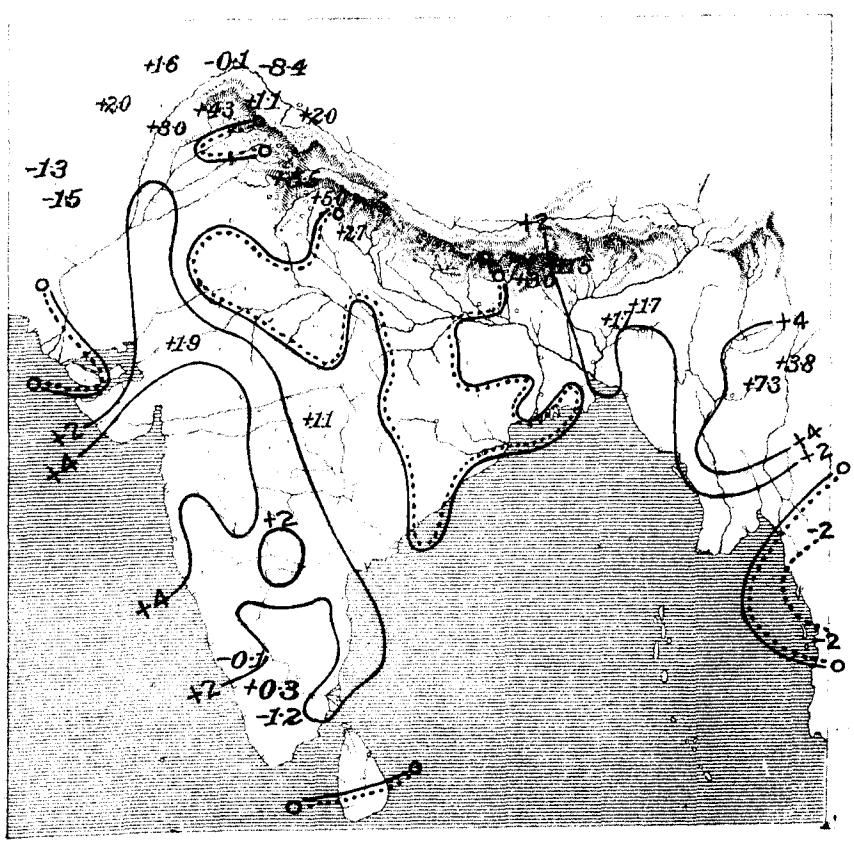


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

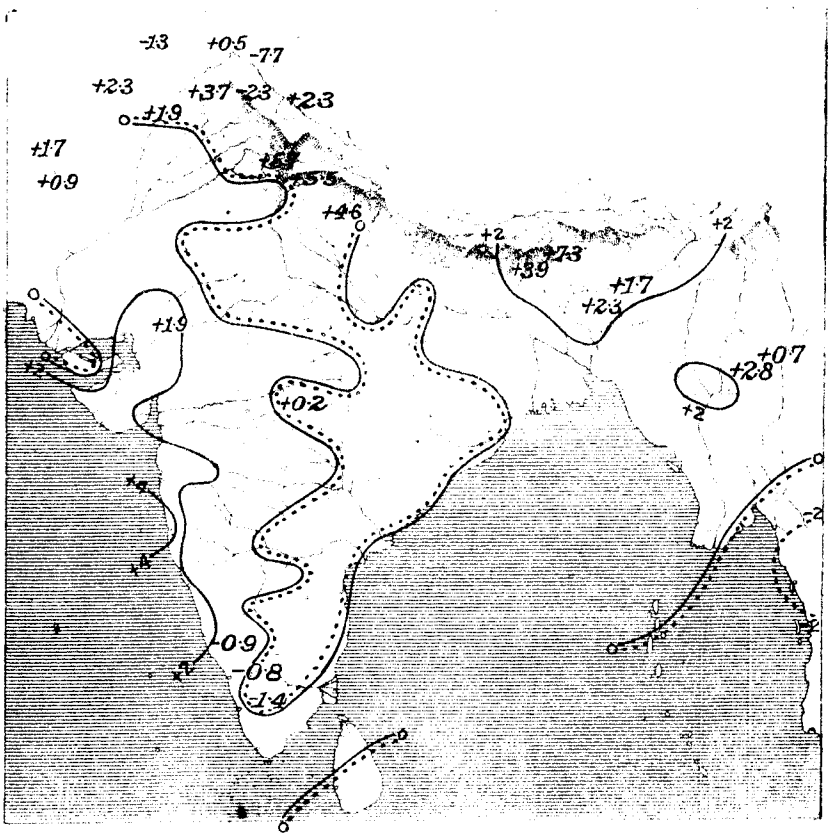


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

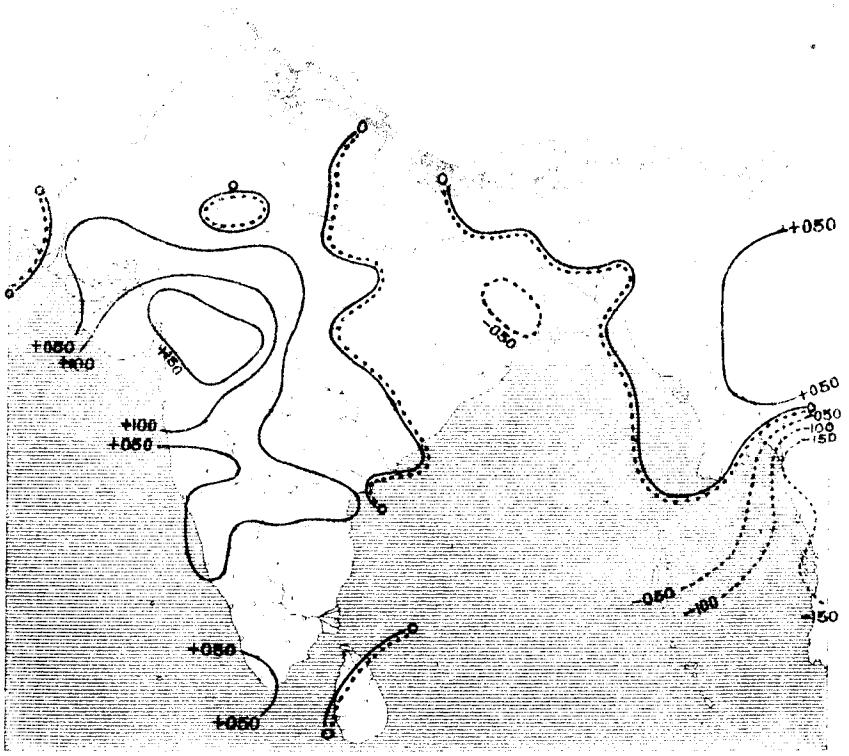


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

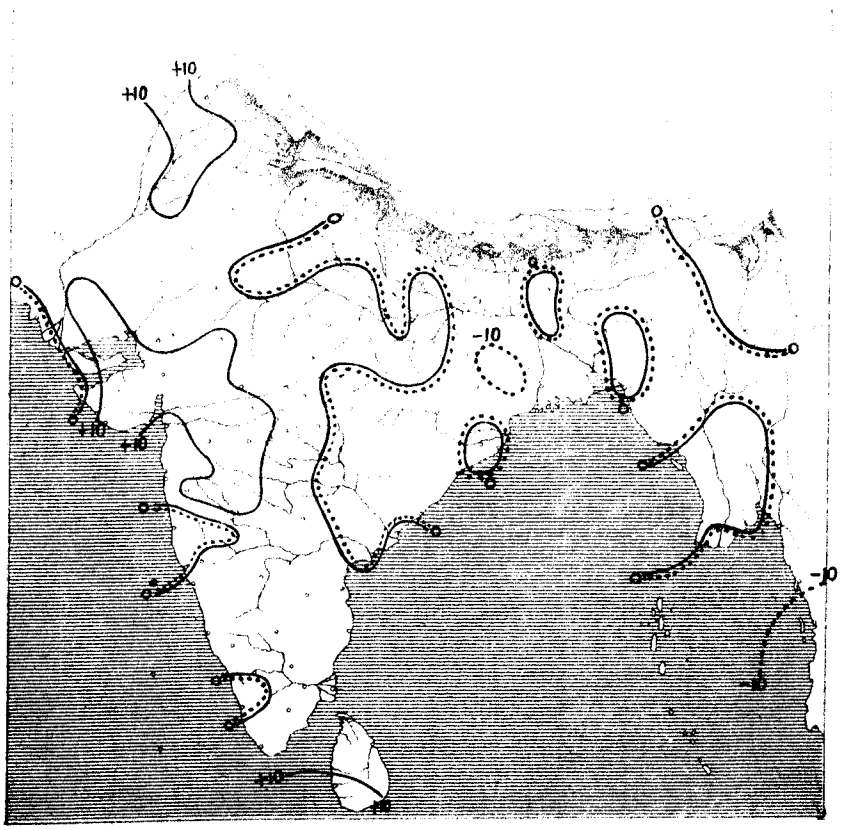


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

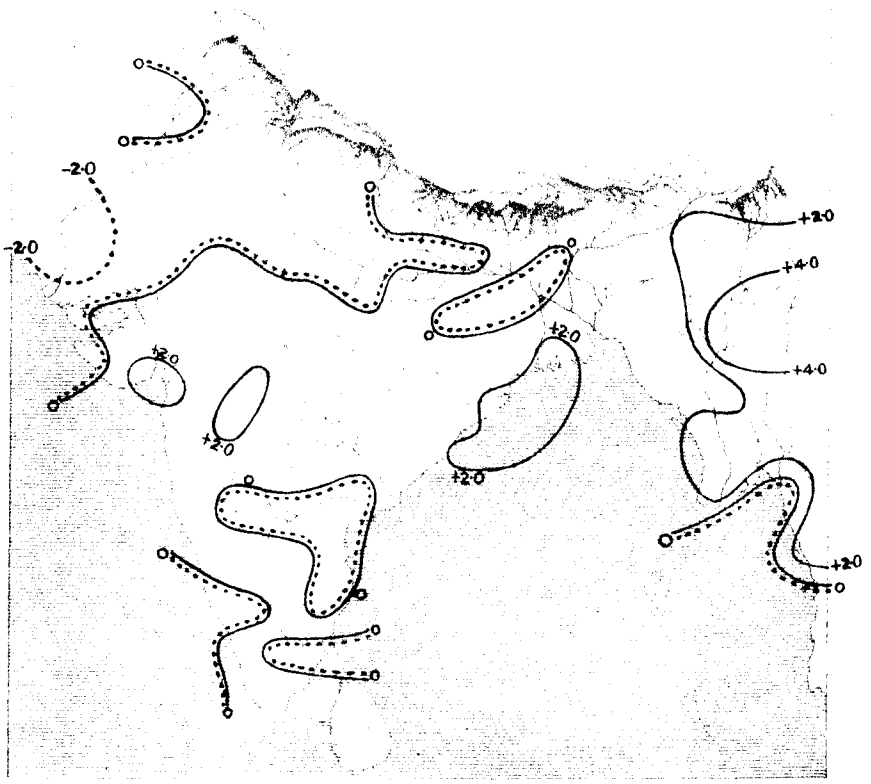
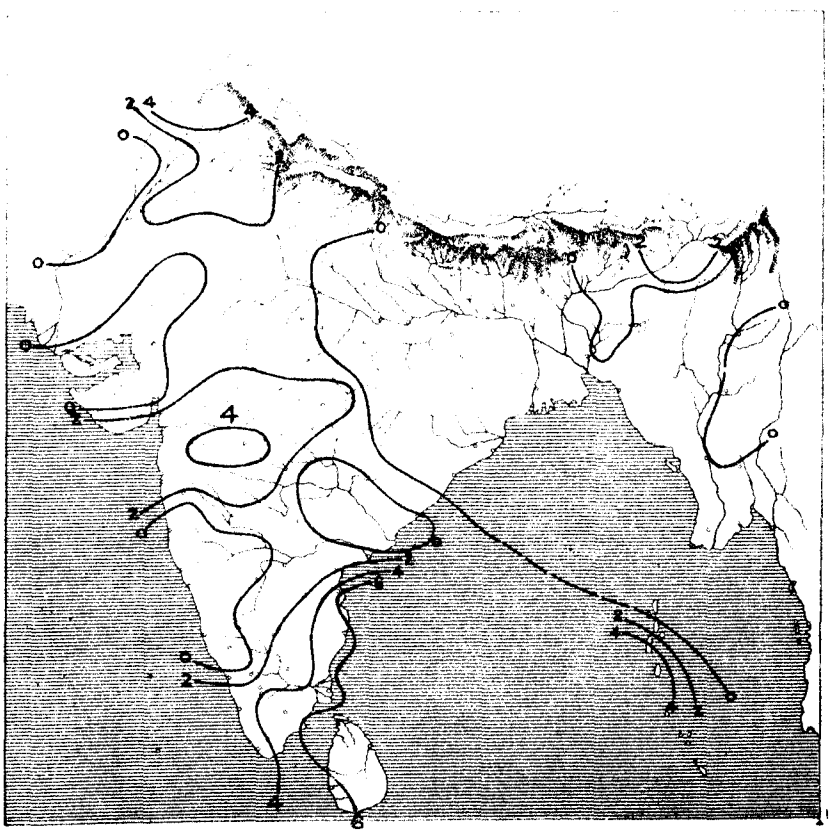
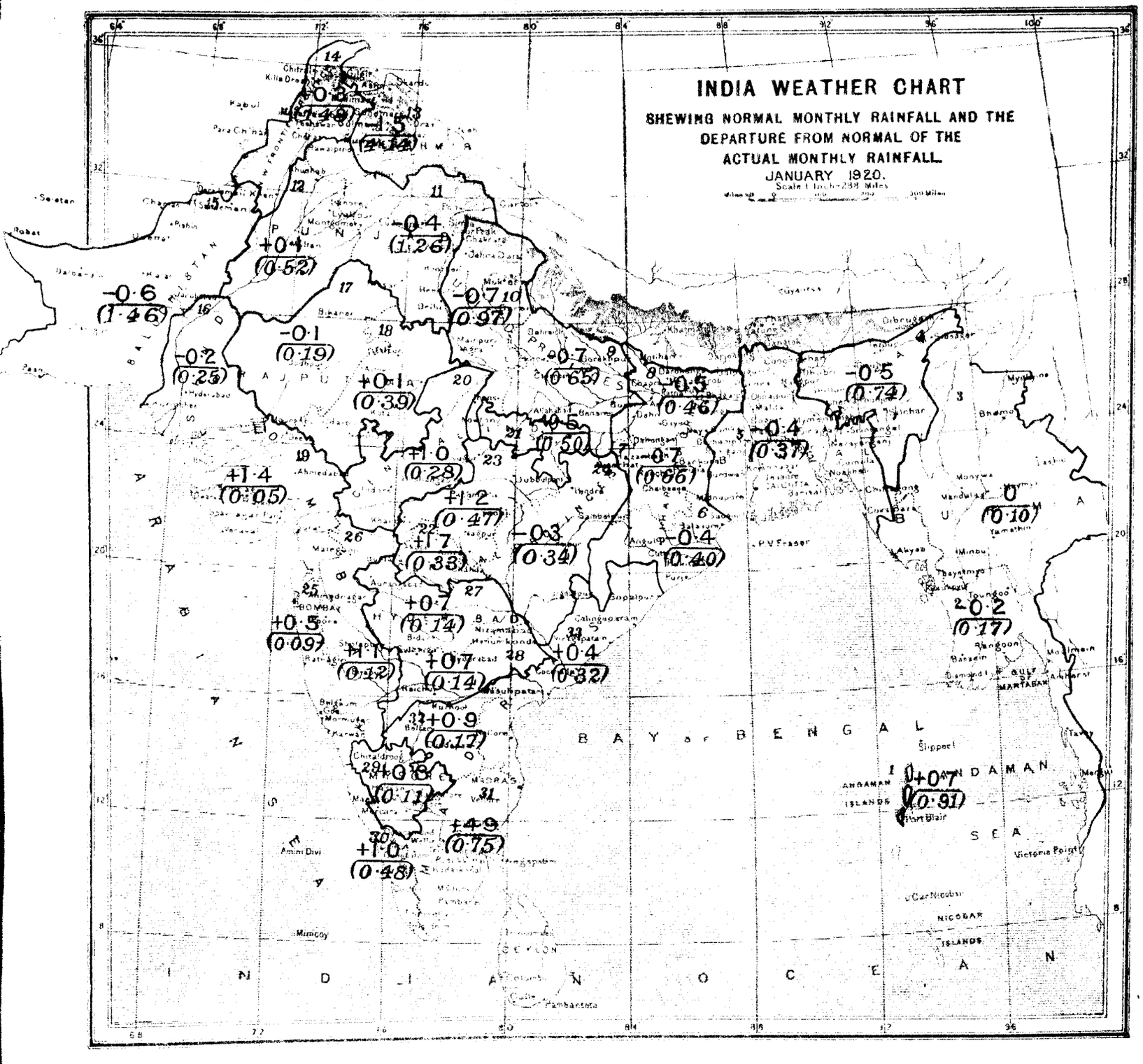


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of February, 1920, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16hrs. at 13 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.

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. Rain fell over the greater part of northern India in connection with two winter disturbances within the first ten days of the month, the falls being widespread on the 2nd and 3rd. A cold wave which appeared on the northwest frontier in the wake of the first disturbance caused very low temperatures in northern India till the 13th; it affected Burma from the 12th to the 17th. Two more western disturbances entered India during the month, but they gave rain only in the western Himalayas and parts of northeast India and Burma. Temperature was, probably on account of this dryness, very high in northwest India from the 18th, and northern India generally from the 23rd, to the end of the month.

The total rainfall of the month was in large excess in Lower Burma, Assam and Bengal, and slightly above normal in Sind, the Konkan and the Madras Coast North. It was about normal in Upper Burma, Bihar, Orissa and Kashmir, and in moderate to large defect generally over the rest of the country. A large excess of rain was recorded in Persia.

Skies were more clouded than usual in Upper Burma, Assam, Bengal, Orissa, Kashmir and Baluchistan. Both absolute and relative humidities were below normal in the Central Provinces and Hyderabad, and above it in parts of Gujarat. The mean temperature of the month was practically normal over the whole country with the exception of Kashmir and Baluchistan, the cold spell of the first two weeks being compensated by the high temperatures of the second fortnight.

Barometric pressure, averaged over the plains of India, was ·008″ above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was fine throughout the month and complete solar observations were made on every day.

Sunspots.—19 new groups were recorded. The mean daily number was 4·4 and the average life of a spot was 6·8 days, the corresponding figures for January being 2·9 and 6·9 respectively. The spots were distributed in latitude as follows :—

TABLE 1.

—	0—10°	11—20°	Mean latitudes.	Extreme latitudes.
North	6	3	8·3	1 & 19
South	4	6	12·3	5 & 20

The extensive group of spots referred to in last month's report again returned during the month. But it had become very much reduced in size and disappeared before crossing the west limb.

Prominences.—61 prominences, a minute or more in height, and 27 metallic prominences were observed during the month. The greatest height recorded was 240″ on the 18th.

Magnetic disturbances.—"Great" disturbances were recorded on the 15th, 16th and 24th and "Moderate" disturbances from 6th to 7th, 11th to 14th, 17th to 18th, 21st, 23rd and from 25th to 28th.

J. EVERSHED,

Director,

Kodaikanal and Madras Observatories.

Seismic records.

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

Subsoil—Rock.

Apparatus.—Milne Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AN:	9·76	17·9	1	2·8
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AN.	AZ.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
Feb. 2nd	e P	11 34 6	...	...	...	...	...	
	e L	11 45 24	...	...	...	...	...	
	M	12 17 30	...	...	1310	...	...	
	F	15 45 30	...	...	...	...	...	
„ 8th	e P	5 49 12	...	...	...	...	...	
	e L	5 55 24	...	...	...	...	...	
	M	5 57 24	...	...	50	...	...	
	F	6 08 12	...	...	...	...	...	
1920.		h. m. s.						
Feb. 10th	e P	10 03 30	...	...	...	...	...	
	e L	10 06 30	...	...	...	...	...	
	M	10 08 36	...	...	40	...	...	
	F	10 20 48	...	...	...	...	...	
„ 10th	e P	23 10 36	...	...	...	...	...	
	e L	23 31 06	...	...	...	...	...	
	M	23 33 12	...	...	60	...	...	
	F	23 58 18	...	...	...	...	...	
„ 27th	i P	3 57 24	...	...	...	...	...	Beginning only recorded. Instrument examined at 4h. 2m.
	i L	?	...	...	...	...	...	
	M	?	...	...	...	...	...	
	F	?	...	...	...	...	...	

T. ROYDS,

Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of February, 1920, the traces showed 13 calm days, 14 days of small and 2 days of moderate disturbance.

The days of the month selected as "quiet" are the 3rd, 6th, 10th, 23rd 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	C	17	S	25	S
2	C	10	C	18	S	26	S
3	C	11	S	19	C	27	S
4	C	12	S	20	C	28	S
5	C	13	S	21	S	29	C
6	C	14	S	22	C		
7	S	15	S	23	C		
8	S	16	M	24	M		

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° 21′ 42″.
Horizontal force	0·36923 C. G. S. unit.
Vertical force	0·17122 C. G. S. unit.
Inclination	24° 52′·7.
Horizontal force range . . .	0·00051 C. G. S. unit.
Horizontal force summed range .	0·00339 C. G. S. unit.
Declination range . . .	2′·5.
Declination summed range . .	11′·3.

(NOTE.—Summed range means sum without regard to sign of 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 (E.-W.)

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.
1920.		h. m. s.						
Feb. 2nd	P	11 34 29	...	...	...	...	...	
	M	12 4 35	...	...	855	...	...	
„ 8th	P	5 51 3	...	...	...	...	...	Beginning doubtful. Maximum not well marked.
	M	...	...	...	...	...	...	Disturbance partially lost in shifting time a little before 4 hours.
„ 27th	P	...	...	...	...	...	...	

M. V. UNAKAR,
Officiating 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	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
Feb. 1st	P	13 36 00	3	...	...	...	...	
	L	13 44 00	5	...	...	...	...	
	F	14 6 00	...	...	...	...	...	
„ 2nd	P	11 33 12	5	...	...	...	...	
	S	11 43 00	11	...	...	...	...	
	L	11 50 36	21	...	...	...	...	
	M	12 8 18	...	1172	2414	...	...	
	F	13 54 00	...	...	...	...	...	
„ 9th	P	23 36 30	2	...	...	...	...	
	L	23 37 54	5	...	...	...	...	
„ 10th	F	0 4 42	...	...	...	...	...	
„ 10th	P	21 48 24	1	...	...	...	...	
	L	21 49 54	4	...	...	...	...	
	F	22 6 42	...	...	...	...	...	
„ 27th	P	3 56 24	?	...	...	...	...	
	S	4 0 12	3	...	...	...	...	
	L	4 4 12	6	...	...	...	...	
	F	4 45 12	...	...	...	...	...	

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	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	REMARKS.
1920.		h. m. s.						
Feb. 8th	e P	6 00 06	...	...	...	...	...	
	M	6 08 00	...	43	...	...	...	
	F	6 23 36	...	...	...	...	...	Tremors.
„ 10th	e	23 12 00	...	...	...	...	...	
	M	23 12 18	...	...	...	...	...	
	F	23 41 36	...	...	...	...	...	Felt in Ceylon.
„ 20th	e P	11 55 48	...	...	...	...	...	
	M	12 02 00	...	39	...	...	...	
1920.		h. m. s.						
	F	12 17 00	...	...	...	...	...	
Feb. 22nd	P	17 51 12	...	...	...	...	...	
	M	17 58 24	...	29	...	...	...	
	F	18 08 36	...	...	...	...	...	Felt at Mandalay.
„ 25th	P	17 45 48	...	...	...	...	...	
	M	17 46 12	...	196	...	...	...	
	F	17 47 24	...	...	...	...	...	
„ 25th	P	22 59 42	...	...	...	...	...	
	F	23 29 18	...	...	...	...	...	Slight tremors.
„ 27th	P	3 57 30	...	...	...	...	...	
	L	4 00 18	25	...	...	...	...	
	M	4 00 36	...	75	...	...	...	
	F	4 28 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.
	1920	h. m.	s.			
Katmandu (Nepal) .	Feb. 9th	23 42	21	7	2	
Kyelang, Lahoul (Kangra District).	„ 10th	0 30	...	5	3 or 4	
Mandalay . .	23rd	5 37	4	7	1	
Drosh . . .	„ 29th	21 57	3	6	2	

S. SITARAMAYYA,
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.	−·057	+·009	+·028
Actual mean wind direction . .	S 73° E	N 27° E	N 29° E
Normal mean wind direction . .	S 62° E	N 27° E	N 21° W
Actual mean wind velocity (miles per diem).	166	144	95
Normal mean wind velocity (miles per diem).	182	118	107
Rainfall departure from normal (in inches).	+6·16	−2·15	−6·24

Depressions and cyclonic storms.

8. Four winter depressions affected the weather in India during the month. The first of these, which passed into northwest India on the 2nd, caused precipitation over the greater part of northern India between the 2nd and the 6th; rainfall was widespread over the whole tract of country between the North-West Frontier Province and Assam on the 2nd and 3rd. The cold wave and the associated high pressure in the rear of this disturbance caused steep gradients with strong monsoon and rough seas in the north Arabian Sea. The second disturbance appeared on the 6th over the Persian Gulf and travelled as a definite cyclonic depression across the north of the Arabian Sea causing rough sea and squally weather there. Several vessels experienced rough to high seas with rain squalls and winds of force 7 to 8 on the 7th and 8th between latitude 22° to 24° N and longitude 62° to 66° E. It gave widespread rain in Baluchistan, lower Sind and Rajputana with rain and snow on the western Himalayas on the 7th and 8th, and on passing eastwards caused light to moderate rain in Orissa and north Bengal on the 9th and 10th. The third disturbance was a well marked barometric depression between the 12th and 16th as it advanced across the central parts of the country to the Bay of Bengal; but the comparatively light rainfall due to it occurred only on two days, the 14th and the 15th, and was confined to north-east India. Rough seas were experienced at the head of the Bay on the 19th behind this depression. The fourth disturbance gave, between the 18th and 25th, moderately heavy snow in Kashmir, and a few falls of rain or snow in Baluchistan and the North-West Frontier Province.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·017
Assam	—·006
Bengal	—·007
Bihar and Orissa	—·007
United Provinces	+·001
Punjab	—·001
North-West Frontier Province	—·006
Sind	+·013
Rajputana	+·013
Bombay	+·016
Central India	+·004
Central Provinces	+·009
Hyderabad	+·025
Mysore	+·021
Madras	+·012

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference B—A.
	"		"	"
Quetta	+·004	Jacobabad	+·010	+·006
Leh	—·038	Lahore	—·005	+·033
Murree	—·011	Peshawar	—·019	—·008
Simla	+·003	Ludhiana	—·001	—·004
Mukteswar	—·006	Bareilly	+·003	+·009
Darjiling	—·029	Dhubri	—·004	+·025
Mount Abu	+·020	Deesa	+·022	+·002
Pachmarhi	+·002	Khandwa	+·017	+·015
Kodaikanal	+·010	Madura	+·019	+·009

Temperature.

10. The cold wave which appeared in the rear of the first disturbance began to affect Baluchistan on the 3rd and caused very low temperatures in northwest India till the 10th. It extended into the United Provinces West on the 6th and into northeast India on the 9th; temperature continued low in northern India till the 13th. Remarkably low temperatures prevailed in Baluchistan on the 4th, 5th and 6th, the maximum at Kalat falling to 20° and the minimum to 5° on the 5th and 6th; at Quetta the maximum on the 5th was 26° and the minimum 11° on the morning of the 6th. The minimum temperature in the Punjab and Rajputana fell to and below the freezing point at several stations on the 6th and 7th; on the 8th maximum temperature was as low as 50° or 24° below normal at Ajmer, while on the next day the maximum at Rawalpindi was only 43° or 19° below normal. The cold wave affected Burma from the 12th to 17th, and very low maximum temperatures were recorded in central Burma on the 15th and 16th.

Temperature was on the other hand much higher than usual in northwest India from the 18th, and in northern India generally from the 23rd to the end of the month. Consequently the mean temperature of the month was roughly normal except in Kashmir and Baluchistan, where it was in slight defect.

The cold wave of the month caused very low temperatures also in Persia in the first ten days of the month; at Tehran the minimum fell to 0° F on the 3rd, while at Meshed the maximum was only 19° on that date. The weather was

abnormally cold even further west. A report from Jerusalem states that the heaviest snowstorm since 1860 was experienced in the third week of the month; for three days there was a ceaseless fall of snow from north of Beyrouth to Birsheba, and at Jerusalem the fall was 3 feet deep.

Table 11 gives the actual temperature and its departure from normal in 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	83·7	73·7	78·7	10·1	—2·4	—1·5	—0·9
2. Lower Burma	87·8	67·2	77·5	20·6	—0·4	—0·2	—0·2
3. Upper Burma	83·7	57·3	70·5	26·4	—1·6	+0·6	—2·2
4. Assam	75·7	55·0	65·3	20·7	—1·4	+1·1	—2·5
5. Bengal	79·8	59·0	69·4	20·8	—1·3	+1·1	—2·4
6. Orissa	85·8	64·1	74·9	21·7	—0·4	+0·7	—1·1
7. Chota-Nagpur	81·4	55·7	68·5	25·7	—0·7	+0·4	—1·1
8. Bihar	78·1	54·9	66·5	23·2	—0·3	+0·7	—1·0
9. United Provinces, East	78·0	51·8	64·9	26·2	—0·1	+0·5	—0·6
10. Do. do., West	76·7	50·4	63·5	26·3	+0·2	—0·4	+0·6
11. Punjab, East and North	69·6	46·5	58·1	23·1	—1·2	+0·3	—1·5
12. Do., South-west	71·7	46·4	59·1	25·3	0	+2·3	—2·3
13. Kashmir	39·4	20·6	30·0	18·8	—2·3	—2·7	+0·4
14. North-West Frontier Province	67·0	43·6	55·3	23·4	—1·7	+0·2	—1·9
15. Baluchistan	60·0	36·1	48·0	23·9	—1·8	—3·1	+1·3
16. Sind	78·4	55·0	66·7	23·4	—0·5	+0·4	—0·9
17. Rajputana, West	79·7	51·4	65·5	28·3	+1·9	—1·3	+3·2
18. Do., East	78·4	52·2	65·3	26·3	—0·5	+0·1	—0·6
19. Gujarat	85·2	58·6	71·9	26·7	+0·6	+0·3	+0·3
20. Central India, West	81·7	52·4	67·1	29·3	+0·1	+0·7	—0·6
21. Do. do., East	79·9	51·3	65·5	28·6	+0·5	—0·2	+0·7
22. Berar	87·9	59·9	73·9	27·9	—0·8	—0·3	—0·5
23. Central Provinces, West	84·5	55·1	69·7	29·4	—0·1	0	—0·1
24. Do. do., East	86·2	57·4	71·8	28·8	+0·7	—0·3	+1·0
25. Konkan	86·5	69·3	77·9	17·1	+1·5	+1·0	+0·5
26. Bombay Deccan	90·0	58·3	74·1	31·7	—0·2	—0·3	+0·1
27. Hyderabad, North	90·4	59·3	74·9	31·1	—0·8	+1·0	—1·8
28. Do., South	91·3	64·8	78·0	26·5	+0·7	—0·7	+1·4
29. Mysore	88·5	62·7	75·6	25·7	+0·7	+0·9	—0·2
30. Malabar	88·6	73·3	81·0	15·3	+0·5	+0·3	+0·2
31. Madras, South-east	89·9	70·7	80·3	19·2	+0·7	+1·5	—0·8
32. Do., Deccan	94·6	67·7	81·2	26·9	+0·2	+1·0	—0·8
33. Do., Coast, North	87·5	70·5	79·0	17·0	+1·7	+1·2	+0·5

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—There were no noteworthy departures from normal in the mean wind directions.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·9	+0·3	40	+ 1
Assam	2·7	+0·5	35	+ 10
Bengal	2·0	—0·2	16	— 7
Bihar and Orissa	2·7	0	27	— 10
United Provinces	2·2	—0·1	22	— 4
Punjab	1·6	—0·4	21	+ 3
North-West Frontier Province	1·2	—0·7	13	—19
Sind	3·2	—1·6	24	—16
Rajputana	2·8	—0·1	30	+ 6
Bombay	4·3	—0·9	49	+ 2
Central India	2·4	—0·7	21	— 3
Central Provinces	3·0	+0·2	21	— 5
Hyderabad	3·8	—0·8	32	+10
Mysore	4·1	+0·1	31	— 5
Madras	4·1	+0·1	49	— 1

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab, Calcutta and Bombay during the month are given in the following table.

TABLE 14.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.				Bombay. Height above sea = 0·01 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	27	2·6	0·2	295	21	2·0	1·2	348	28	0·6	0·2	335	23	3·9	2·1	102	28	0·6	0·6	21	24	2·4	1·0	285	26	2·3	1·5	37
0·5	27	7·3	3·1	335	...	...	...	...	28	6·5	5·3	333	...	...	...	...	28	4·9	4·0	356	24	3·7	2·2	279	26	5·7	4·3	41
1·0	26	7·9	5·5	306	...	...	...	...	28	5·8	4·2	317	22	4·4	2·1	97	28	5·1	4·1	331	23	4·9	3·4	274	26	6·0	3·4	27
1·5	27	8·6	7·3	299	...	...	...	...	28	6·7	4·1	300	23	5·5	3·2	66	25	6·0	4·6	331	23	6·8	6·1	279	26	6·3	2·7	352
2·0	26	10·0	8·4	295	..	...	...	...	28	7·4	4·6	285	21	6·9	5·1	55	24	7·3	5·2	303	21	10·6	9·8	281	26	7·5	4·4	344
2·5	24	12·5	11·0	295	22	6·0	2·7	334	26	7·8	5·3	282	21	7·8	5·1	53	24	8·5	6·9	295	9	15·7	14·4	291	24	7·5	4·3	317
3·0	24	13·7	11·9	289	22	6·3	2·2	311	25	8·7	6·3	289	21	8·0	4·6	27	24	9·4	8·5	288	6	18·9	17·5	294	23	8·5	4·5	326
3·5	24	16·0	14·6	288	20	7·7	3·6	305	23	10·3	8·5	285	20	8·7	3·9	23	24	11·0	10·0	285	...	...	...	...	21	9·3	5·4	342
4·0	24	18·7	17·8	287	19	10·1	4·5	286	22	13·1	10·9	285	20	8·5	2·8	32	24	12·8	11·9	284	...	...	...	...	20	9·5	6·6	334
4·5	24	21·4	20·4	287	14	10·9	9·1	287	22	16·2	13·5	283	19	7·8	3·9	24	24	14·0	13·2	281	...	...	...	...	20	9·2	7·1	321
5·0	24	24·0	22·8	286	11	14·0	12·6	295	20	18·3	16·2	283	19	7·7	4·1	20	24	14·9	14·1	281	...	...	...	...	20	10·0	7·2	312
5·5	20	24·4	24·0	296	6	21·5	17·2	288	18	20·4	18·0	287	18	8·1	4·4	9	12	13·5	12·9	279	...	...	...	...	18	11·3	8·4	311
6·0	19	27·8	27·4	294	5	22·0	21·4	285	15	22·3	20·5	281	18	8·7	4·3	2	12	15·8	15·3	278	...	...	...	...	18	14·1	12·2	310
6·5	18	27·1	26·8	289	4	23·1	22·3	287	11	27·0	26·7	289	16	7·7	3·6	329	6	17·4	17·0	284	...	...	...	...	15	15·6	15·0	310
7·0	10	26·9	26·5	289	4	24·6	23·6	280	8	29·9	29·8	291	15	7·3	3·7	328	5	17·3	16·7	284	...	...	...	...	13	14·4	13·8	302
7·5	7	25·6	25·5	293	3	23·7	22·7	280	5	33·9	33·8	287	15	7·3	3·6	312	2	18·0	17·9	281	...	...	...	...	12	14·5	13·5	292
8·0	7	27·3	27·1	294	1	19·0	19·0	290	4	37·5	37·4	288	15	6·4	3·7	317	2	19·3	19·1	271	...	...	...	...	12	16·0	14·9	285
8·5	7	28·6	28·1	290	...	...	...	...	...	...	...	...	11	6·7	3·7	328	...	...	...	...	...	...	...	...	8	17·5	16·8	285
9·0	6	29·4	28·9	292	...	...	...	...	...	...	...	...	10	6·7	3·1	328	...	...	...	...	...	...	...	...	7	18·6	18·5	286
9·5	2	26·0	25·9	295	...	...	...	...	...	...	...	...	8	7·7	4·2	321	...	...	...	...	...	...	...	...	5	20·0	19·9	286
10·0	2	33·5	33·2	293	...	...	...	...	...	...	...	...	5	10·2	9·1	279	...	...	...	...	...	...	...	...	4	19·5	19·4	283
10·5	...	...	...	...	...	...	...	...	...	...	...	...	3	15·8	14·8	267	...	...	...	...	...	...	...	...	2	15·7	15·7	285
11·0	...	...	...	...	...	...	...	...	...	...	...	...	2	16·3	11·5	256	...	...	...	...	...	...	...	...	2	17·7	16·4	267
11·5	...	...	...	...	...	...	...	...	...	...	...	...	1	10·5	10·5	325	...	...	...	...	...	...	...	...	1	21·5	21·5	280
12·0	...	...	...	...	...	...	...	...	...	...	...	...	1	14·0	14·0	320	...	...	...	...	...	...	...	...	...	...	...	...
12·5	...	...	...	...	...	...	...	...	...	...	...	...	1	13·5	13·5	310	...	...	...	...	...	...	...	...	...	...	...	...
13·0	...	...	...	...	...	...	...	...	...	...	...	...	1	14·0	14·0	295	...	...	...	...	...	...	...	...	...	...	...	...

N = Number of flights.
V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of Resultant Wind, taking account of direction, metre per sec.
L = Direction of Resultant Wind, North Wind = 0° or 360°, East Wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours with their departures from normal:—

TABLE 15.

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	− 1	·567	—·006	2·7	+ 0·2
Assam . . .	88	− 1	·451	+ ·009	4·6	+ 0·9
Bengal . .	83	+ 2	·502	+ ·017	3·1	+ 0·9
Bihar and Orissa .	70	− 2	·420	—·008	2·5	+ 0·1
United Provinces .	68	− 2	·319	—·009	1·9	—0·6
Punjab . .	75	+ 2	·282	+ ·006	3·0	—0·6
North-West Frontier Province.	73	+ 3	·250	+ ·006	3·7	—0·1
Sind . . .	62	+ 8	·342	+ ·025	1·6	—1·0
Rajputana . .	52	+ 1	·258	+ ·009	1·7	−0·9
Bombay . .	59	+ 2	·410	+ ·012	0·9	−0·5
Central India .	59	+ 4	·325	+ ·014	1·3	—0·9
Central Provinces .	48	− 6	·294	—·034	0·7	—1·1
Hyderabad . .	49	− 5	·381	−·048	0·9	—0·6
Mysore . .	62	− 8	·457	−·023	1·5	—0·8
Madras . .	77	0	·696	+ ·014	1·8	—0·7

Rainfall.

13. Rainfall was in large excess in the Bay Islands, Lower Burma, Assam and Bengal. On the other hand, little or no rain fell in Mysore, Hyderabad, the Bombay Deccan and the central parts of the country. In northwest India excluding Kashmir and Sind, and in the United Provinces rainfall was in slight to moderate defect.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	1·3	0·8	1·16	0·54	+ 0·62	+115
2. Lower Burma	0·7	0·4	0·50	0·24	+ 0·26	+108
3. Upper Burma	0·5	0·4	0·14	0·14	0	0
4. Assam	4·5	3·3	2·19	1·48	+ 0·71	+ 48
5. Bengal	3·0	1·7	1·70	1·01	+ 0·69	+ 68
6. Orissa	2·0	1·7	1·17	1·08	+ 0·09	+ 8
7. Chota Nagpur	2·2	2·4	0·84	1·37	—0·53	— 39
8. Bihar	1·9	1·7	0·77	0·75	+ 0·02	+ 3
9. United Provinces, East	1·4	1·3	0·47	0·56	—0·09	— 16
10. Do. do., West	1·6	1·7	0·56	0·93	—0·37	— 40

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
11. Punjab, East and North	1·6	2·2	0·72	1·09	—0·37	— 34
12. Do., South-west	1·0	1·4	0·39	0·58	—0·19	— 33
13. Kashmir	6·1	5·4	4·03	3·88	+0·15	+ 4
14. North-West Frontier Province	2·5	3·0	0·72	1·39	—0·67	— 48
15. Baluchistan	2·7	3·1	1·06	1·50	—0·44	— 29
16. Sind	1·0	0·8	0·37	0·29	+0·08	+ 28
17. Rajputana, West	0·2	0·4	0·06	0·29	—0·23	— 79
18. Do., East	0·6	0·8	0·17	0·35	—0·18	— 51
19. Gujarat	0·3	0·2	0·08	0·11	—0·03	— 27
20. Central India, West	0·2	0·7	0·06	0·32	—0·26	— 81
21. Do., East	0·4	1·4	0·12	0·66	—0·54	— 82
22. Berar	0	0·7	0	0·31	—0·31	—100
23. Central Provinces, West	0	1·3	0·02	0·64	—0·62	— 97
24. Do., East	0·2	1·6	0·09	0·96	—0·87	— 91
25. Konkan	0·2	0·1	0·05	0·04	+0·01	+ 25
26. Bombay Deccan	0	0·2	0·01	0·07	—0·06	— 86
27. Hyderabad, North	0	0·5	0	0·19	—0·19	—100
28. Do., South	0	0·5	0	0·24	—0·24	—100
29. Mysore	0·1	0·2	0·01	0·11	—0·10	— 91
30. Malabar	0·3	1·0	0·21	0·61	—0·40	— 66
31. Madras, South-east	0·2	0·7	0·11	0·48	—0·37	— 77
32. Do. Deccan	0·1	0·2	0·04	0·09	—0·05	— 56
33. Do. Coast, North	0·7	0·6	0·45	0·37	+0·08	+ 22

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·28	0·18	+0·10	+56
Assam	2·19	1·48	+0·71	+48
Bengal	1·70	1·01	+0·69	+68
Bihar and Orissa	0·88	0·98	—0·10	—10
United Provinces	0·52	0·76	—0·24	—32
Punjab	0·64	0·97	—0·33	—34
North-West Frontier Province	0·72	1·39	—0·67	—48

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·37	0·29	+0·08	+28
Rajputana	0·13	0·33	—0·20	—61
Bombay	0·04	0·08	—0·04	—50
Central India	0·08	0·45	—0·37	—82
Central Provinces	0·05	0·69	—0·64	—93
Hyderabad	0	0·21	—0·21	—100
Mysore	0·01	0·11	—0·10	—91
Madras	0·21	0·44	—0·23	—52
Mean of India	0·43	0·56	—0·13	—23

Snowfall.

I.—PALESTINE.

14. More than 3 feet of snow fell in the course of 3 days about the middle of the month; this is considered to have been the heaviest snowstorm there since 1360.

II.—CENTRAL ASIA.

Kashgar.—An inch of snow fell on the 1st and half an inch on the 2nd.

III.—PERSIA.

Meshed.—Snow fell to a depth of about 17 inches.

IV.—THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kohat.*—Snow fell on the 1st, 4th and 10th on the Samana Range, the total depth being 3 feet 7 inches.

(*b*) *Hazara.*—A report made till the 15th of the month gave the following actual falls and accumulations. They were considered to be above normal.

TABLE 18.

Locality.	Actual fall up to 15th February.	
	Ft.	In.
Narang	5	10
Paludrân	4	9
Kagon	2	6
Jared	1	10
Mankandi	1	11
Sundigali	6	6
Jachha	4	6
Thandiani	7	6
Dungagali	6	6

The accumulations on the 15th of the month were as follows:—

TABLE 19.

Locality.	Depth of unmelted snow on 15th February.	
	Feet.	Inches.
Narang	7	4
Paludran	6	0
Kagon	1	6
Jared	0	4
Malkandi	*Nil*	
Sundigali	3	9
Jachha	1	6
Thandiani	7	9
Dungagali	9	0

V.—KASHMIR.

(*a*) *Srinagar.*—There were occasional snowfalls during the first half of the month; the total precipitation of the month was below the average.

(*b*) *Skardu.*—Snow fell on 11 days, the total depth at the station being a little over half a foot and on the mountains nearly 3 feet. The accumulation at the end of the month was 6 to 9 feet on the high mountains, 2 or 3 feet on the lower hills and about half an inch near the station. The month's fall was above the average.

(*c*) *Dras.*—Snow fell on 12 days, the total depth being nearly 5 feet.

(*d*) *Kargil.*—Snow fell on 5 days. The total amounts were about 2 feet on the ground and 3 feet on the mountains.

VI.—THE PUNJAB.

Kilba (*Simla Hills*).—2½ feet of snow fell during 3 days, the fall reaching down to the river bed on the 3rd, 4th, 5th, 6th and 9th. The accumulations on the passes at the end of the month were:—

Chitkul	12 feet.
Rupan	10 „
Brua	10 „
Harang	5 „

VII.—THE UNITED PROVINCES.

(*a*) *Garhwal.*—An inch of snow fell at heights of 5,000 feet.

(*b*) *Almora.*—The reports from Patwaries were as follows :—

Actual falls.

TABLE 20.

Locality.	Depth.	Descent below perpetual snowline.
	Feet	
Malla Darma	15	13 or 14 miles.
Malla Johar	8½	
Byans	12½	9 or 10 miles.
Chaudas	10	

There was also a fall during the month in Danpur.

TABLE 21.

Name of pass or peak.	Accumulation at the end of the month. Reported.	Accumulation at the end of the month. Normal.
	Feet	Feet
Nuwe pass	13 or 14	37
Lampia pass	13 or 14	21½
Binkaru pass	9 or 10	24
Lipulekh pass	9 or 10	19
Milamdhura	2½	16½
Bagdwar	1½	...

VIII.—THE EASTERN HIMALAYAS.

(*a*) *Gangtok.*—Light snow fell.

(*b*) *Yatung.*—18 inches of snow fell.

(*c*) *Balipara Frontier Tract.*—Snowfall reached a lower level than usual, but the total fall of the month was about normal.

(*d*) *Sadiya Frontier Tract.*—The snowfall at the end of February and the beginning of March was the heaviest for many years. It came down to 6,000 feet.

Summary.

15. In the hills of the North-West Frontier Province and the regions to the west as well as on the eastern Himalayas the month's snowfall was in excess; it was roughly normal in Kashmir, and in defect in the Punjab and the United Provinces Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in February, 1920.

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. Mean of 10 hrs.	Pressure. Mean of 16 hrs.	Pressure. Mean daily range.	Pressure. Mean of daily mean pressures.	Pressure. Departure from normal.	Pressure. Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Temperature of air. Mean minimum.	Temperature of air. Mean daily range.	Temperature of air. Highest maximum.	Temperature of air. Lowest minimum.	Temperature of air. Absolute range.	Temperature of air. Mean 10 hrs.	Temperature of air. Mean 16 hrs.	Temperature of air. Mean of daily means.	Temperature of air. Departure from normal.	Temperature, wet-bulb. Mean minimum.	Temperature, wet-bulb. Mean 10 hrs.	Temperature, wet-bulb. Mean 16 hrs.	Temperature, wet-bulb. 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	29·921	29·892	·129	29·949	−·008	29·917	82·1	62·7	19·4	92·8	50·5	42·3	75·5	80·5	71·5	+1·2	60·1	66·2	66·0	64·1
	VI.—Punjab.																					
11	Lahore . .	702	29·318	29·230	·088	29·265	−·016	29·969	69·3	46·9	22·4	84·8	34·2	50·6	59·4	68·6	57·0	−0·3	44·4	52·3	56·5	51·1
	IX.—Rajputana.																					
18	Jaipur . .	1,431	28·613	28·501	·112	28·546	+·008	29·954	78·6	50·9	27·7	93·5	33·2	60·3	69·3	77·5	63·7	−0·5	45·3	53·5	56·1	51·6
	X.—Bombay.																					
25	Bombay . .	37	30·017	29·896	·121	29·951	+·018	29·928	84·0	69·9	14·1	90·2	62·3	27·9	76·5	79·7	76·1	+1·3	62·2	67·9	70·7	66·9
	XIV.—Mysore.																					
29	Bangalore . .	3,021	27·060	26·931	·129	26·992	+·023	29·812	87·8	61·5	26·3	91·7	54·3	37·4	78·7	86·1	74·0	+2·0	58·5	63·9	63·9	62·1
	XV.—Madras.																					
30	Trivandrum . .	198	29·825	29·698	·127	29·763	+·040	29·890	86·5	74·0	12·5	88·7	70·7	18·0	82·2	85·7	79·4	+0·8		73·2	75·5	
31	Pudukkottai .	318	29·738	29·581	·155	29·659		29·905	92·1	71·1	21·0	95·7	66·9	28·8	82·4	90·1	81·7			72·7	72·2	
	Madras . .	22	30·030	29·905	·125	29·966	0	29·919	88·0	70·9	17·1	91·8	66·6	25·2	83·7	84·7	78·5	+1·9	69·7	74·5	74·7	73·0
	Kashmir.																					
12	Srinagar . .	5,204	24·981	24·908	·073	24·945	+·008	24·916	39·7	25·6	14·1	54·5	8·7	45·8	30·8	37·8	32·7	−0·3	25·1	29·9	35·7	30·2
	Hill stations excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·707	25·634	·073	25·668	+·020	25·621	67·5	40·5	27·0	80·5	32·0	48·5	54·9	63·9	5[illegible]·8	+1·3	38·1	48·3	52·0	46·1
	Kodaikanal . .	7,688	22·902	22·840	·062	22·871		22·806	67·8	45·8	22·0	73·2	42·1	31·1	63·1	61·4	56·8		40·9	51·4	52·9	48·1
	Extra India.																					
	Seychelles* .	15	29·995	29·902	·093	29·957	+·028†	29·895	84·3	78·2	6·1	86·5	75·7	10·8	81·8	83·4	80·2	+1·1†	70·8	76·4	72·2	73·1
	Mauritius . .	181				29·708	−·057	29·774	84·0	72·0	12·0	86·9	67·5	19·4			77·2	−1·2				

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 3,300 feet.

* Mean of 21 days except rainfall. † Departure from old normal.

A.

at 13 stations in India, etc., in February, 1920.

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.	
·493	·556	·448	·525	+·040	85	66	45	68	+ 2	2·1	2·2	2·1	−0·1	2	6	5	4	2	7	13	9	10	S 86° W	N 73° W	28	25	72	58	1·48	0·83	Calcutta.	5
																															VI.—Punjab.	
·267	·308	·305	·301	+·014	82	61	45	66	+ 4	3·8	3·8	3·8	−0·1	4	3	9	1	6	0	3	5	27	N 33° W	N 30° W	47	30	37	39	0·77	0·57	Lahore.	11
																															IX.—Rajputana.	
·243	·228	·196	·229	−·033	63	31	22	43	− 4	2·1	2·5	2·3	−0·8	3	3	7	2	3	5	10	15	10	N 88° W	N 20° W	35	33	63	66	0·12	0·12	Jaipur.	18
																															X.—Bombay.	
·161	·573	·635	·579	−·040	63	62	67	66	− 5	0·5	0·2	0·3	−0·9	0	9	8	10	3	0	1	4	23	N 6° W	N 1° W	53	57	150	183	0·33	0·28	Bombay.	25
																															XIV.—Mysore.	
457	·425	·339	412	+·005	83	44	37	53	− 1	1·1	2·2	1·7		4	3	11	19	8	3	5	3	2	E	S 69° E	84	59	126	88	0	0	Bangalore.	29
																															XV.—Madras.	
	·695	·746				63	61			2·2	1·6	1·9	−0·7	2	0	8	0	0	1	19	9	19	N 8° W	S 81° W	55	43	87	81	0	0	Trivandrum.	30
	·669	·550				61	39			2·6	1·5	2·1		16	0	13	14	9	5	1	0	0	S 84° E		59		80		0	0	Pudukkottai.	31
·711	·731	·722	·745	+·030	94	63	61	76	− 2	2·9	0·5	1·7	−1·5	1	2	6	10	26	8	5	0	0	S 51° E	S 84° E	65	72	55	88	0	0	Madras.	
																															Kashmir.	
·139	·161	·193	·164	−·010	95	91	85	90	+ 7	8·0	7·0	7·5	+0·9	23	2	2	0	10	3	6	0	12	S 61° W	S 9° W	9	8	47	61	2·07	0·53	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·205	·268	·256	·253	−·007	81	62	44	65	− 4	4·2	5·8	5·0	+1·5	0	0	0	29	0	0	0	29	0	(a)	N 87° W	(a)	47	14	21	0·17	0·11	Katmandu.	
·208	·239	·313	·255		67	42	59	58		0·4	4·8	2·6		1	18	20	6	6	4	0	1	2	N 41° E		62		226		0·38	0·22	Kodaikanal.	
																															Extra India.	
·562	·833	·638	·731	−·011	68	77	56	70	−13	5·6	5·2	5·4	−1·1†	8	5	14	6	1	0	0	0	8	N 29° E	N 21° W	46	53	95	107	6·36	2·16	Seychelles.	
			·765	−·012				81	+ 1			7·7	+1·7										S 73° E	S 82° E			121	133	13·27	2·50	Mauritius.	

† Departure from old normal. (a) Indeterminate.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in February, 1920.

(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 2,500 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	+·017	86·1	+1·0	63·1	+0·2	74·6	+0·4	23·0	+0·3	+ 1	80	− 1	·567	−·006	2·7	+0·2	0·28	0·18	+0·10
Assam	−·006	75·7	−1·4	55·0	+1·1	65·3	−0·1	20·7	+0·5	+10	88	− 1	·451	+·009	4·6	+0·9	2·19	1·48	+0·71
Bengal	−·007	79·8	+1·3	59·0	+1·1	69·4	−0·1	20·8	−0·2	− 7	83	+ 2	·502	+·017	3·1	+0·9	1·70	1·01	+0·69
Bihar and Orissa	−·007	81·3	−0·4	58·0	+0·7	69·7	+0·1	23·4	0	−10	70	− 2	·420	−·008	2·5	+0·1	0·88	0·98	−0·10
United Provinces of Agra and Oudh	+·001	77·4	0	51·1	+0·1	64·3	+0·1	26·2	−0·1	− 4	68	− 2	·319	−·009	1·9	−0·6	0·52	0·76	−0·24
Punjab	−·001	70·3	−0·9	46·5	+0·8	58·4	−0·1	23·8	−0·4	+ 3	75	+ 2	·282	+·006	3·0	−0·6	0·64	0·97	−0·33
North-West Frontier Province	−·006	67·0	−1·7	43·6	+0·2	55·3	−0·7	23·4	−0·7	−19	73	+ 3	·250	+·006	3·7	−0·1	0·72	1·39	−0·67
Sind	+·012	78·4	−0·5	55·0	+0·4	66·7	0	23·4	−1·6	−16	62	+ 3	·342	+·025	1·6	−1·0	0·37	0·29	+0·08
Rajputana	+·013	79·0	+0·5	51·9	−0·4	65·4	0	27·1	−0·1	+ 6	52	+ 1	·253	+·009	1·7	−0·9	0·13	0·33	−0·20
Bombay	+·016	87·0	+0·5	60·7	+0·3	73·9	+0·4	26·3	−0·9	+ 2	59	+ 2	·410	+·012	0·9	−0·5	0·04	0·05	−0·04
Central India	+·004	80·8	+0·3	51·8	+0·2	66·3	+0·2	29·0	−0·7	− 3	59	+ 4	·325	+·014	1·3	−0·9	0·08	0·45	−0·37
Central Provinces	+·009	85·8	−0·1	56·9	−0·1	71·3	−0·1	28·9	+0·2	− 5	48	− 6	·294	−·034	0·7	−1·1	0·05	0·69	−0·64
Hyderabad	+·025	91·0	+0·3	62·9	−0·3	77·0	0	28·1	−0·8	+10	49	− 5	·381	−·048	0·9	−0·6	0	0·21	−0·21
Mysore	+·021	88·5	+0·7	62·7	+0·9	75·6	+0·8	25·7	+0·1	− 5	62	− 3	·457	−·022	1·5	−0·8	0·01	0·11	−0·10
Madras	+·012	89·7	+0·8	70·7	+1·2	80·2	+1·0	19·0	+0·1	− 1	77	0	·606	+·014	1·3	−0·7	0·21	0·44	−0·23

Table

(2) Abstract of observations taken at 8 hrs. at 211

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	29·840		29·917	29·899	25th	29·775	28th	78·9	73·9	87·6		74·1		80·8		13·5	92·0	12th	69·9	3rd
	Mergui	66	29·940	+·015	29·936	30·014	25th	29·874	28th	75·5	72·5	90·6	+1·1	71·4	+1·6	81·0	+1·3	19·2	93·4	12th	65·9	15th
	Tavoy	19	29·990	+·003	29·941	30·068	25th	29·916	28th	71·5	68·9	91·6	+0·4	66·4	−1·2	79·0	−0·4	25·2	96·2	26th & 27th	58·7	15th
	Moulmein	77	29·941	+·020	29·957	30·035	24th	29·856	28th	72·4	68·8	90·6	−1·0	67·8	−0·3	79·2	−0·7	22·8	96·6	29th	62·0	15th
	Rangoon	18	29·992	+·021	29·948	30·077	25th	29·906	28th	69·9	68·3	91·7	−0·8	66·2	−0·3	79·0	−0·5	25·5	96·8	27th	61·0	2nd
	Bassein	27	29·995	+·024	29·959	30·079	25th	29·922	28th	72·6	68·7	90·7	+0·8	65·3	−0·6	78·0	+0·1	25·4	97·1	27th	57·8	15th
	Diamond Island	41	29·957	+·002	29·934	30·049	25th	29·886	28th	77·5	71·2	94·4	+0·4	74·0	+1·1	79·2	+0·7	10·4	92·1	5th	69·8	16th
	Toungoo	164	29·853	+·026	29·859	29·940	24th	29·780	28th	68·4	64·3	89·4	−1·0	59·6	−1·5	74·5	−1·3	29·8	96·4	28th	49·1	14th
	Kyaukpyu	18	29·992		29·950	30·084	25th	29·915	28th	71·0	67·3	80·2		66·1		73·2		14·1	82·7	29th	58·6	15th
	Akyab	20	29·988	+·001	29·949	30·093	25th	29·904	28th	66·2	63·3	81·2	−3·3	61·2	−0·2	71·2	−1·7	20·0	87·4	29th	54·8	14th
3	Minbu	*165*	29·835	+·006	29·948	29·948	17th	29·740	4th	68·2	59·6	88·4	−2·1	62·3	+1·1	75·3	−0·5	26·1	95·7	25th	55·0	14th
	Yamethin	644	29·346	+·019	29·859	29·431	24th	29·263	4th	67·2	61·3	86·8	−2·7	60·4	+0·3	74·6	−1·2	28·4	96·4	27th	51·1	14th
	Mandalay	250	29·761	+·022	29·968	29·870	17th	29·657	4th	62·5	61·0	89·1	−0·8	59·7	−0·6	74·4	−0·7	29·4	97·0	27th	49·0	14th
	Monywa	*280*	29·740	+·015	29·979	29·851	17th	29·627	4th	65·3	60·1	87·5	+0·3	60·1	+0·4	73·8	+0·3	27·4	95·0	27th	49·2	14th
	Lashio	*2,820*	27·188	+·019	27·134	27·299	24th	27·089	14th	55·5	52·3	76·4	−2·2	49·3	+0·4	62·9	−0·9	27·1	83·0	24th	38·6	14th
	Bhamo	*361*	29·645	+·028	29·979	29·735	17th	29·548	29th	58·6	57·5	78·9	−2·0	54·4	+1·6	66·6	−0·2	24·5	87·5	29th	44·1	1st
	Myitkyina	463	29·537	+·017	29·981	29·650	17th	29·440	4th & 29th.	59·2	56·9	76·7	−1·6	54·6	+0·9	65·7	−0·3	22·1	83·6	27th	47·4	1st
	II.—Assam.																					
	Dibrugarh	353	29·676	−·014	30·010	29·770	17th	29·521	4th	58·0	57·3	71·8	−0·4	54·8	+0·9	63·3	+0·3	17·0	82·1	26th	45·3	13th
	Sibsagar	333	29·698	−·013	30·009	29·792	17th	29·555	4th	57·4	56·3	70·8	−2·0	55·1	+1·9	62·9	−0·1	15·7	80·8	26th	47·2	13th
	Tezpur	252	29·790	+·005	30·015	29·888	17th	29·672	29th	57·9	55·7	75·4	−0·4	55·6	+0·8	65·5	+0·2	19·8	85·3	25th	45·6	13th
	Gauhati	196	29·844	−·006	30·006	29·942	25th	29·707	29th	59·7	56·9	76·8	−0·9	53·4	+1·5	65·1	+0·3	23·4	86·4	29th	41·5	13th
	Dhubri	115	29·902	−·004	29·977	30·008	25th	29·730	29th	60·8	57·3	75·6	−2·0	56·9	+1·4	66·3	−0·3	18·7	85·1	26th	45·2	13th
	Silchar	104	29·960	+·024?	30·021	30·067	25th	29·812	4th	64·4	61·6	78·4	−2·1	57·4	+1·9	67·9	−0·1	21·0	87·6	28th	45·5	13th
	Srimangal	66	29·968		29·987	30·058	25th	29·817	29th	58·5	57·2	80·9	−1·7	51·6	−0·5	66·3	−1·1	29·3	90·9	29th	39·1	13th
	III.—Bengal.																					
5	Cox's Bazar	36	29·974		29·956	30·080	25th	29·875	4th	66·4	63·7	80·3		60·0		70·2		20·3	87·5	29th	51·1	13th
	Chittagong	87	29·941	+·008	29·977	30·036	25th	29·811	4th	64·1	62·0	81·2	−1·0	58·6	−0·1	69·9	−0·5	22·6	88·4	29th	49·1	13th
	Noakhali	43	29·991	+·014	29·982	30·087	25th	29·833	4th	66·6	63·8	79·9	−0·9	61·3	+4·0?	70·6	+1·5?	18·6	88·8	28th	51·8	13th
	Barisal	12	30·001	−·006	29·960	30·105	25th	29·866	29th	66·9	64·6	80·1	−1·4	61·6	+2·2	70·8	+0·4	18·5	88·9	29th	51·0	13th
	Narayanganj	26	29·991	−·005	29·967	30·101	25th	29·840	29th	65·0	61·3	79·1	−2·5	60·5	+2·0	69·7	−0·3	18·6	90·1	28th	51·4	13th

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

B.

stations in India, etc., in February, 1920.

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. 1919 to 29th Feb. 1920	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.
14	0	10	4	1	0	0	0	0	N 62° E		6·0			46		78		·771		4·7		2	+1·7	0·87	0·07	+ 0·80	2·13	2·71	− 0·58	0·73	Victoria Point.
19	0	0	5	5	0	0	0	0	S 68° E	N 8° W	3·8	1·5	+2·3	32	−15	86	+ 1	·763	−·004	3·2	+0·1	4	+1·2	2·95	2·07	+ 0·88	4·41	3·49	+ 0·92	1·32	Mergui.
26	1	1	1	0	0	0	0	0	N 45° E	N 54° W	1·4	1·0	+0·4	11	+ 7	87	− 2	·675	−·025	2·2	+1·0	0	−0·9	0·09	0·51	− 0·42	0·24	0·94	− 0·70	0·09	Tavoy.
2	0	12	15	0	0	0	0	0	N 71° E	N 84° E	2·4	1·7	+0·7	85	+37	83	− 1	·660	−·013	2·4	+0·4	0	−0·4	0	0·17	− 0·17	0·83	0·66	+ 0·17	0	Moulmein.
6	7	11	1	0	0	1	1	2	N 20° E	S 67° W	3·3	2·8	+0·5	56	+ 9	92	+ 8	676	+·047	3·5	+1·8	0	−0·3	0	0·25	− 0·25	0·71	0·84	− 0·13	0	Rangoon.
22	1	2	1	0	0	0	0	3	N 4° E	N 43° W	2·9	3·3	−0·4	16	−43	81	− 6	·651	−·006	0·8	−0·8	0	−0·3	0	0·31	− 0·31	0·40	0·83	− 0·43	0	Bassein.
0	18	4	1	0	0	0	0	6	N 1° W	N 9° W	9·1	6·4	+2·7	86	+11	75	0	·703	−·003	2·1	−0·1	0	−0·2	0	0·18	− 0·18	1·43	1·22	+ 0·21	0	Diamond Island.
3	8	10	3	3	2	0	0	0	N 48° E	N 6° E	1·7	1·4	+0·3	56	+21	79	− 5	·547	−·021	1·5	+0·1	0	−0·2	0	0·19	− 0·19	1·91	0·84	+ 1·07	0	Toungoo.
24	2	1	1	0	0	0	0	1	N 16° E		1·1			11		82		·624		4·5		0	−0·4	0	0·13	− 0·13	4·96	0·50	+ 4·46	0	Kyaukpyu.
6	6	16	0	0	0	0	0	1	N 31° E	N 24° E	2·9	2·6	+0·3	74	− 9	84	0	·547	+·005	1·5	+0·3	3	+2·7	0·57	0·13	+ 0·44	2·08	0·90	+ 1·18	0·26	Akyab.
11	1	1	1	2	1	1	1	10	N 45° W	N 70° W	2·6	4·6	−2·0	29	+11	59	− 6	·404	−·038	2·4	+1·2	0	−0·2	0	0·08	− 0·08	1·81	0·63	+ 1·18	0	Minbu.
										S 63° E		2·3				70	− 1	·468	−·006	1·3	+0·1	0	−0·4	0·01	0·25	− 0·24	2·81	0·83	+ 1·98	0·01	Yamethin.
										S 30° W		1·8				64	− 5	·435	−·022	2·0	+0·6	1	+0·8	0·25	0·07	+ 0·18	1·31	0·47	+ 0·84	0·18	Mandalay.
9	15	0	0	0	0	1	0	4	N 11° W		1·3			60		73	− 1	·455	−·004	0·8	−0·8	0	−0·1	0·06	0·02	+ 0·04	0·27	0·44	− 0·17	0·04	Monywa.
24	0	1	1	1	0	1	1	0	S 45° E		2·4			4		80	− 2	·355	−·008	0·9	−2·5	1	0	0·12	0·31	− 0·19	0·99	1·55	− 0·56	0·10	Lashio.
27	0	2	0	0	0	0	0	9	N 45° E	N 18° W	0·7	2·0	−1·3	4	−20	93	+ 4	·462	+·024	8·0	+5·2	2	+0·7	0·51	0·45	+ 0·06	2·12	1·60	+ 0·52	0·30	Bhamo.
20	3	5	0	0	0	0	1	0	N 21° E		3·1			29		87	+ 1	·435	−·011	4·6	+1·2	4	+1·6	1·14	0·80	+ 0·34	1·24	1·77	− 0·53	0·50	Myitkyina.
																															II.—Assam.
23	0	2	3	1	0	0	0	0	N 82° E		0·2			18		96	+ 4	·464	+·035	6·6	+1·6	8	+2·3	3·25	2·27	+ 0·98	3·97	4·29	− 0·32	1·40	Dibrugarh.
20	4	4	0	1	0	0	0	0	N 30° E	N 48° E	1·2	1·7	−0·5	25	−11	93	− 4	·441	−·013	7·4	+1·2	3	−2·3	1·90	1·99	− 0·09	2·96	3·86	− 0·90	1·19	Sibsagar.
5	0	10	10	0	1	1	1	1	N 68° E		2·9			58		86	− 2	·418	−·005	5·0	+1·6	2	−0·9	0·85	1·20	− 0·35	1·00	2·02	− 1·02	0·43	Tezpur.
13	0	0	8	1	1	3	1	2	S 60° E		1·3			14		83	− 6	·430	+·009	4·6	−0·7	2	−0·7	0·77	1·43	− 0·66	1·39	1·98	− 0·59	0·38	Gauhati.
1	0	8	11	2	4	3	0	0	S 82° E	N 67° E	4·7	3·1	+1·6	56	+25	79	− 5	·427	−·001	3·0	+0·7	2	+0·5	0·62	0·77	− 0·15	0·62	1·17	− 0·55	0·45	Dhubri.
17	0	5	4	1	0	1	0	1	N 66° E	S. 63° E	2·2	1·8	+0·4	25	+17	85	− 1	·518	+·035	4·0	+0·7	7	+3·4	3·28	2·13	+ 1·15	3·35	3·44	− 0·09	1·15	Silchar.
																92	+ 5	·461	+·004	1·8		7	+4·3	1·98	1·64	+ 0·34	2·24	2·60	− 0·34	0·67	Srimangal.
																															III.—Bengal.
17	0	5	5	2	0	0	0	0	N 78° E		1·8			38		85		·557		1·9		3	+2·6	2·32	0·10	+ 2·22	2·38	1·25	+ 1·13	1·30	Cox's Bazar.
4	4	10	3	7	0	1	0	0	N 69° E	N 45° E	2·1	2·8	−0·7	53	− 2	88	+ 5	·533	+·023	2·5	+0·3	5	+4·8	1·50	1·04	+ 0·46	1·53	2·15	− 0·62	0·61	Chittagong.
13	5	4	2	5	0	0	0	0	N 63° E		1·2			31		85	0	·560		3·8	+1·5	4	+2·1	0·78	1·25	− 0·47	0·82	1·86	− 1·04	0·20	Noakhali.
6	2	7	2	1	3	5	2	1	N 72° E	N 13° W	2·5	1·5	+1·0	5	− 3	88	+ 4	·578	+·032	2·9	+0·8	3	+1·1	1·40	1·11	+ 0·29	1·54	2·02	− 0·48	0·64	Barisal.
19	1	0	2	1	2	2	2	0	S 13° W	N 27° W	1·2	2·1	−0·9	11	+ 3	80	− 3	·500	0	3·8	+0·9	6	+4·0	3·30	1·36	+ 1·94	3·37	1·88	+ 1·49	0·86	Narayanganj.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·952	—·007	29·970	30·050	25th	29·780	29th	60·8	58·2	77·7	—0·9	57·9	+2·1	67·8	+0·6	19·8	88·5	29th	48·4	13th
	Bogra	75	29·939	—·008	29·969	30·025	17th	29·756	29th	59·2	57·3	78·3	—1·6	54·8	+0·4	66·6	—0·6	23·5	92·2	29th	46·0	13th
	Dinajpur	123	29·877	—·014	29·961	29·984	17th	29·689	29th	59·4	56·4	77·3	—2·0	54·8	+2·5	66·1	+0·3	22·5	89·3	29th	47·0	10th
	Jalpaiguri	283	29·721	+·003	29·988	29·830	17th	29·560	29th	58·2	55·5	76·3	+0·1	54·4	+1·6	65·4	+0·9	21·9	85·6	25th	43·9	12th
	Saugor Island	10	29·991	—·021	29·947	30·108	25th	29·853	4th	70·0	67·3	79·2	—1·7	65·0	0	72·1	—0·9	14·2	84·0	29th	50·2	12th
	Midnapore	149	29·853	—·022	29·957	29·962	17th	29·703	29th	66·4	60·2	85·3	—0·1	61·2	+0·2	73·3	+0·1	24·0	96·2	28th	50·3	13th
	Calcutta	21	29·991	—·012	29·960	30·096	25th	29·850	29th	65·1	63·0	81·7	—0·3	61·8	+1·8	71·8	+0·7	19·9	91·9	28th	50·5	13th
	Jessore	30	29·991	—·003	29·968	30·098	25th	29·844	29th	64·6	61·4	79·1	—3·1	58·6	+1·4	68·9	—0·9	20·5	89·8	29th	45·7	13th
	Burdwan	99	29·906	—·022	29·957	30·011	17th	29·744	29th	62·3	58·6	81·8	—1·4	57·7	—0·9	69·7	—1·1	24·1	92·8	28th	49·5	12th
	Berhampore	67	29·961	+·002	29·980	30·073	17th	29·772	29th	62·6	58·5	80·2	—1·2	57·3	+0·9	68·7	—0·1	22·9	92·1	29th	47·5	13th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·956	—·023	29·953	30·071	25th	29·801	29th	66·0	62·7	83·8	—0·8	61·5	0	72·7	—0·4	22·3	92·4	28th	53·7	14th
	Hukitala (False Point)	29	29·986	—·010	29·956	30·101	25th	29·857	15th													
	Cuttack	80	29·934	—·007	29·958	30·019	25th	29·787	15th	68·9	65·7	87·2	—2·0	65·7	+0·2	76·4	—0·9	21·5	95·5	29th	59·0	13th
	Puri	24	30·003	+·005	29·968	30·111	25th	29·865	15th	74·1	70·7	83·7	+0·7	71·0	+2·0	77·3	+1·3	12·7	88·0	24th	63·0	13th
	Angul	455	29·545	+·015	29·962	29·657	25th	29·384	15th	68·9	62·5	87·3	+0·1	63·7	+2·3	75·5	+1·2	23·6	95·4	28th	55·4	13th
	Sambalpur	486	29·520	—·009	29·974	29·618	25th	29·354	15th	66·0	60·1	86·9	—0·2	58·7	—1·2	72·8	—0·7	28·2	96·0	27th	48·7	13th
7	Chaibasa	*733*	29·252	—·018	29·970	29·360	25th	29·121	29th	62·0	56·7	83·6	—0·9	57·2	+0·1	70·4	—0·4	26·4	94·2	27th	47·4	13th
	Ranchi	2,133	27·833	—·008	29·965	27·934	25th	27·705	4th	60·6	52·4	76·6	—0·5	55·6	+0·7	66·1	+0·1	21·0	88·7	27th	46·1	8th
	Purulia	*816*	29·182	—·012	29·984	29·285	25th	29·019	29th	63·7	55·6	83·8	+2·3P	58·5	+0·9	71·1	+1·6P	25·3	95·2	27th	47·6	13th
	Daltonganj	*730*	29·278	—·008	30·003	29·405	17th	29·116	29th	57·7	53·1	81·6	+2·6P	51·5	+0·1	66·6	+1·3P	30·1	93·8	27th	41·3	13th
8	Purnea	124	29·889	—·005	29·975	30·005	17th	29·702	29th	58·7	55·9	77·4	—1·3	53·0	+1·7	65·2	+0·2	24·4	88·7	29th	44·8	12th
	Monghyr	155	29·856		29·971	29·976	17th	29·662	29th	60·5	55·8	77·3		55·6		66·4		21·7	90·7	27th	45·9	8th
	Darbhanga	165	29·847	—·003	29·975	29·974	17th	29·635	29th	59·3	54·9	77·7	+1·1	52·3	—1·2	65·0	—0·1	25·4	89·0	27th & 29th.	42·9	8th & 13th.
	Pusa	188	29·814		29·968	29·934	17th	29·618	29th	57·9	54·8	78·1		51·7		64·9		26·4	91·0	27th	42·8	8th
	Patna	183	29·830	—·009	29·978	29·953	17th	29·639	29th	61·5	55·4	76·5	—1·1	55·8	+2·0	66·2	+0·5	20·7	89·7	27th	44·5	8th
	Buxar	239	29·766	—·012	29·974	29·875	8th	29·566	29th	59·5	53·7	77·0	—1·3	54·7	+0·7	65·9	—0·3	22·3	93·3	27th	44·6	8th
	Gaya	372	29·644	—·001	29·989	29·764	17th	29·457	29th	62·1	54·5	80·4	—0·1	57·2	+1·4	68·8	+0·7	23·2	93·7	27th	47·4	8th
	Naya Dumka	489	29·522	+·003	29·985	29·638	17th	29·248	29th	64·5	56·8	80·6	+0·9	55·7	—0·1	68·1	+0·4	24·9	92·6	27th & 28th.	45·8	13th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·747	+·004	29·979	29·869	17th	29·556	29th	55·9	52·2	76·3	—1·1	51·4	—0·8	63·9	—0·9	24·9	89·7	27th	41·1	8th
	Benares	267	29·743	—·010	29·978	29·864	8th	29·541	29th	60·3	54·2	80·0	+0·6	52·4	+0·8	66·2	+0·7	27·6	93·7	27th	39·6	8th
	Allahabad	309	29·730	+·017	30·012	29·859	11th	29·512	29th	60·5	53·0	79·8	+0·3	52·4	+1·7	66·6	+1·0	26·4	93·9	28th & 27th.	38·5	8th
	Cawnpore	416	29·603	+·002	30·002	29·754	7th	29·410	29th	58·3	51·8	77·7	+0·1	52·4	+1·5	65·0	+0·8	25·3	92·2	28th	40·9	8th

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

B—*continued.*

stations in India, etc., in February, 1920—*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. 1919 to 29th Feb. 1920.	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.*
24	0	2	2	0	0	0	0	1	N 52° E	N 74° E	0·8	1·4	−0·6	11	−20	84	+ 1	·459	+ ·005	4·0	+1·9	4	+ 2·3	2·04	0·99	+ 1·05	2·04	1·44	+ 0·60	0·75	Mymensingh.
25	0	1	2	0	0	1	0	0	E	N 27° W	0·2	1·8	−1·6	7	− 4	89	+11	·452	+ ·034	3·7	+2·2	4	+ 2·3	1·36	0·85	+ 0·51	1·36	1·31	+ 0·05	0·75	Bogra.
3	2	5	6	1	2	3	5	2	N 39° E	N 83° W	2·3	2·6	−0·3	11	−18	81	+ 1	·421	+ ·023	2·0	−0·4	3	+ 1·7	1·40	0·60	+ 0·80	1·40	1·02	+ 0·38	0·80	Dinajpur.
20	1	4	1	0	0	2	0	1	N 25° E	N 40° E	1·0			14	−19	84	− 1	·414	−·003	2·1	+0·3	1	− 0·3	0·27	0·73	− 0·46	0·27	1·18	− 0·91	0·22	Jalpaiguri.
2	4	9	1	0	5	7	0	0	N 80° E	N 3° W	6·4	5·3	+1·1	8	−16	86	0	·642	+ ·015	2·4	−0·8	4	+ 2·2	2·65	1·13	+ 1·52	2·65	1·73	+ 0·92	1·40	Saugor Island.
14	8	3	0	0	1	0	0	3	N		2·1			38		68	0	·446	−·003	3·1	+1·1	1	− 0·9	0·12	1·28	− 1·16	0·12	2·05	− 1·93	0·10	Midnapore.
7	2	3	2	2	2	5	2	4	W	S 46° W	3·1	2·4	+0·7	10	− 6	88	+ 7	·557	+ ·044	3·3	+0·8	2	+ 0·3	1·48	1·14	+ 0·34	1·48	1·73	− 0·25	0·83	Calcutta.
20	1	4	0	3	0	0	1	0	N 64° E	N 18° W	1·1	1·5	−0·4	14	+ 2	82	+ 1	·511	+ ·016	4·7	+2·4	3	+ 1·1	1·39	1·40	− 0·01	1·39	2·02	− 0·63	0·79	Jessore.
21	1	2	0	0	0	0	1	4	N 25° W	N 27° W	1·1	1·5	−0·4	21	+ 1	80	+ 9	·455	+ ·024	3·5	+0·7	3	+ 1·3	2·31	1·28	+ 1·03	2·31	1·81	+ 0·50	1·40	Burdwan.
12	2	3	3	3	4	1	0	1	S 71° E	S 83° W	1·7	1·6	+0·1	25	− 6	77	− 3	·441	+ ·003	2·7	+0·2	2	+ 0·2	0·86	0·93	− 0·07	0·86	1·44	− 0·58	0·48	Berhampore.
																															IV.—Bihar and Orissa.
16	6	1	0	0	3	2	0	1	N 24° W	N 42° W	2·0	2·8	−0·8	11	−24	82	+ 5	·538	+ ·023	2·9	+0·8	4	+ 1·7	2·20	1·48	+ 0·72	2·20	2·26	− 0·06	0·70	Balasore.
4	2	7	1	1	7	5	1	1	S 22° E	N 57° W	7·4	5·7	+1·7	14	−29					5·5	+2·1P	3	+ 1·6	1·71	1·00	+ 0·71	1·71	2·15	− 0·44	0·69	Hukitala (False Point).
24	0	1	2	0	0	1	1	0	E	N 36° E	1·6	1·5	+0·1	3	− 4	84	+ 4	·596	+ ·021	3·3	+0·6	2	+ 0·7	0·64	0·69	− 0·05	0·64	1·24	− 0·60	0·30	Cuttack.
1	9	6	0	0	3	5	2	3	N 18° W		9·8			31		84	+ 3	·708	+ ·047	2·4	+0·3	2	+ 1·2	2·13	0·70	+ 1·43	2·20	1·35	+ 0·85	1·65	Puri.
8	0	1	0	1	1	0	2	16	N 50° W		3·8			55		68	− 8	·485	− ·023	2·0	−1·2	4	+ 1·9	0·97	1·55	− 0·58	0·97	2·32	− 1·35	0·47	Angul.
0	16	7	0	0	0	0	1	5	N 1° E	N 27° E	2·9	2·1	+0·8	84	+22	69	+ 3	·442	+ ·003	1·7	−0·6	1	− 0·7	0·24	0·80	− 0·56	0·24	1·39	− 1·15	0·17	Sambalpur.
14	1	4	0	0	0	10	0	0	S 53° W	S 86° W	1·5	1·1	+0·4	18	−39	71	− 5	·394	−·021	2·2	0	3	+ 0·4	1·48	1·60	− 0·12	1·48	2·49	− 1·01	1·02	Chaibassa.
5	3	0	0	2	2	1	6	10	N 64° W	N 68° W	3·9	4·2	−0·3	46	+11	56	− 4	·286	−·031	2·2	−0·4	2	− 1·0	0·84	1·74	− 0·90	0·84	2·62	− 1·78	0·46	Ranchi.
16	0	1	0	0	0	5	2	5	N 83° W		1·0			28		57	− 8	·339	−·036	2·2	−0·1	2	− 0·9	0·50	1·56	− 1·06	0·50	2·43	− 1·93	0·26	Purulia
23	1	0	1	1	0	2	1	0	S 45° W		2·8			3		72	− 3	·347	−·027	1·5	−0·5	3	+ 0·6	1·22	1·22	0	1·22	2·26	− 1·04	0·73	Daltonganj.
6	0	5	7	3	0	4	3	1	S 83° E	S 64° W	2·1	2·3	−0·2	21	+ 1	83	− 1	·417	+ ·027	3·9	+2·3	3	+ 1·7	1·58	0·63	+ 0·95	1·58	1·18	+ 0·40	0·95	Purnea
10	0	0	3	6	0	9	1	0	S 1° W		2·4			36		74		·394		2·2		2	+ 0·4	0·53	1·10	− 0·57	0·53	1·80	− 1·27	0·34	Monghyr.
21	0	0	4	0	0	2	2	0	N 25° W	N 89° W	1·8	2·7	−0·9	4	−27	75	− 4	·384	−·006	2·3	+0·6	2	+ 0·6	1·30	0·55	+ 0·75	1·30	1·13	+ 0·17	0·80	Darbhanga.
11	0	3	2	4	3	3	2	1	S 22° E		2·4			21		81		·394		2·3		2	− 0·1	1·70	0·89	+ 0·81		1·14		1·33	Pusa.
12	0	0	5	0	0	7	5	0	S 45° W	S 70° W	2·4	2·4	0	29	−18	66	− 3	·361	−·012	2·7	+0·2	2	+ 0·5	0·83	0·73	+ 0·10	0·85	1·38	− 0·53	0·48	Patna.
3	1	1	2	1	6	8	6	1	S 42° W		3·3			48		66	0	·339	−·009	1·8	−0·7	1	− 0·8	0·24	0·73	− 0·49	0·48	1·61	− 1·13	0·20	Buxar.
11	1	1	1	0	2	8	5	0	S 58° W	S 37° W	1·8	2·6	−0·8	39	+ 4	58	−11	·325	−·057	2·5	−0·1	1	− 0·8	0·39	0·89	− 0·50	0·39	1·68	− 1·29	0·23	Gaya.
25	1	1	1	1	0	0	0	0	N 67° E		1·6			7		60	− 5	·368	−·01	2·0	+0·1	3	+ 1·1	0·92	0·72	+ 0·20	0·92	1·33	−0·41	0·52	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
12	0	0	5	0	0	0	11	0	W	N 73° W	2·2	1·6	+0·6	21	−18	77	+ 5	·349	−·008	1·1	−1·1	3	+ 1·2	0·77	0·57	+ 0·20	0·91	1·44	− 0·53	0·28	Gorakhpur.
11	1	1	1	1	0	5	8	1	S 78° W	S 52° W	1·9	2·8	−0·9	36	+ 2	66	− 9	·344	−·029	1·4	−1·1	1	− 0·8	0·34	0·69	− 0·35	0·40	1·59	− 1·19	0·29	Benares.
9	0	0	5	1	0	1	10	3	N 84° W	S 81° W	2·9	3·3	−0·4	25	+ 1	58	−10	·308	−·042	2·5	−0·2	2	+ 0·6	0·42	0·55	− 0·13	0·47	1·56	− 1·09	0·29	Allahabad.
7	2	3	2	1	1	3	5	5	S 56° W	N 81° W	2·7	2·8	−0·1	29	+ 5	72	+ 2	·327	+ ·007	1·2	−0·8	2	+ 0·3	0·98	0·67	+ 0·31	1·08	1·43	− 0·35	0·60	Cawnpore.

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of barometer 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
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·640	−·003	29·989	29·786	8th	29·433	29th	56·9	52·2	78·4	0	51·2	+0·5	64·8	+0·3	27·2	95·0	26th	40·5	8th
	Bahraich	407	29·578	−·010	29·971	29·692	7th	29·378	29th	54·5	50·1	75·6	−0·7	49·8	−0·6	62·7	−0·7	25·8	90·0	27th	37·5	8th
10	Jhansi	824	29·191	−·011	30·014	29·385	7th	29·007	29th	60·2	52·6	81·5	+0·8	53·6	−2·0	67·5	−0·6	27·9	96·9	26th	42·0	7th
	Agra	556	29·469	+·008	30·014	29·566	7th	29·272	29th	61·2	53·6	77·2	−0·5	52·6	+0·4	64·9	−0·1	24·6	94·0	26th	37·3	7th
	Mainpuri	516	29·489	−·001	29·997	29·650	7th	29·278	29th	55·8	50·4	77·0	+0·5	50·3	+0·8	63·7	+0·7	26·7	93·1	26th	38·0	7th
	Bareilly	568	29·421	+·003	29·988	29·572	7th	29·289	28th	54·4	50·0	75·1	+0·3	49·7	+0·1	62·4	+0·2	25·4	89·4	26th	38·9	7th
	Roorkee	899	29·078	+·002	30·005	29·252	7th	28·870	29th	51·8	48·1	72·6	−0·2	45·8	−1·2	59·2	−0·7	26·8	88·2	28th	33·6	7th
	VI.—Punjab.																					
11	Delhi	718	29·285	+·003	30·013	29·459	7th	29·086	29th	54·9	48·9	73·1	−1·7	51·2	−0·3	62·2	−1·0	21·9	87·4	24th	38·0	7th
	Hissar	725	29·302	+·022	30·043	29·490	7th	29·102	29th	52·1	47·2	74·7	+0·2	44·5	−2·1	59·6	−0·9	30·2	90·5	24th	29·3	6th
	Patiala	*818*	29·149	−·016	29·989P	29·328	7th	28·949	29th	52·7	49·0	70·5	−0·7	48·4	+1·1	59·5	+0·2	22·1	84·8	25th	34·0	7th
	Ambala	892	29·061	−·003	30·002	29·262	7th	28·871	29th	52·6	47·8	72·3	+0·5	48·0	+1·1	60·2	+0·8	24·3	87·8	28th	33·4	7th
	Ludhiana	812	29·173	−·001	30·012	29·368	7th	28·960	29th	51·1	47·9	69·3	−1·3	47·7	+0·1	58·5	−0·6	21·6	84·1	29th	25·6	7th
	Lahore	702	29·293	−·005	30·021	29·483	7th	29·076	29th	49·6	46·9	68·8	−3·3	46·4	+1·9	57·6	−0·7	22·4	84·8	29th	34·2	7th
	Sialkot	830	29·156	−·006	30·021	29·323	7th	28·730	29th	50·0	47·8	65·4	−4·1P	44·2	−1·6	54·9	−2·9P	21·1	79·5	29th	32·5	7th
	Rawalpindi	1,674	28·311	−·001	30·069	28·471	7th	28·063	4th	46·8	43·8	62·8	−2·0	41·5	+0·3	52·1	−0·9	21·3	75·4	24th	31·2	10th
12	Khushab	612	29·415	+·003	30·047	29·609	7th	29·190	4th	50·5	46·3	70·7	+0·2P	44·6	−1·1	57·7	−0·5P	26·1	89·2	29th	32·2	5th & 7th.
	Lyallpur	605	29·400		30·023	29·585	7th	29·166	29th	47·9	45·8*	70·0		43·6		56·8		26·4	84·6	29th	31·0	7th
	Montgomery	558	29·452	−·007	30·020	29·624	7th	29·209	4th	52·5	47·4	71·0	−1·5	47·1	+1·7	59·1	+0·1	23·9	86·6	28th	34·0	7th
	Multan	426	29·605	−·003	30·027	29·765	7th	29·376	3rd	53·1	48·7	75·1	+1·5	50·3	+3·0	62·7	+2·3	24·8	89·5	29th	35·5	6th & 7th.
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·905	−·019	30·067	29·072	26th	28·658	4th	44·7	42·7†	63·6	−2·1	41·5	−1·0	52·6	−1·5	22·1	80·0	29th	30·1	5th
	D. I. Khan	590	29·466	+·007	30·069	29·718	26th	29·239	4th	50·7	46·2*	70·4	−1·2	45·7	+1·4	58·1	+0·1	24·7	88·2	29th	32·1	7th
	VIII.—Sind.																					
16	Jacobabad	186	29·865	+·010	30·022	30·081	7th	29·655	29th	57·3	49·8*	79·2	+1·4	50·8	+2·6	65·0	+2·0	28·4	97·9	29th	32·6	7th
	Hyderabad	96	29·966	+·013	30·020	30·142	7th	29·771	29th	59·4	54·8	80·7	+0·2	54·8	+0·8	67·7	+0·5	25·9	96·3	29th	37·2	7th
	Karachi	13	30·062	+·015	30·026	30·233	11th	29·884	29th	63·6	57·6	75·2	−3·0	59·4	−2·1	67·3	−2·5	15·8	89·9	27th	43·2	6th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·252	+·020	30·036	29·450	7th	29·034	3rd	56·4	49·7	78·2	+2·5	50·0	−2·4	64·1	+0·1	28·2	93·8	23rd & 29th.	33·7	7th
	Jodhpur	780	29·254	+·024	30·034	29·441	7th	29·043	3rd	59·5	49·9†	81·3	+1·3	52·8	−0·2	67·0	+0·5	28·5	97·5	29th	30·8	6th
18	Jaipur	1,431	28·586	+·014	30·047	28·744	7th	28·405	29th	57·2	48·8	78·2	+0·2	50·5	−0·9	64·3	−0·3	27·7	93·5	29th	23·2	7th
	Ajmer	1,611	28·400	+·005	30·057	28·551	7th	28·226	29th	52·3	47·4†	75·8	−1·5	49·5	−0·1	62·7	−0·8	26·3	91·2	29th	32·2	6th
	Kotah	832	29·184	+·004	30·009	29·358	7th	28·993	29th	63·5	52·7	81·3	−0·2	56·5	+1·4	68·9	+0·6	24·8	95·0	29th	39·6	7th

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

* Mean of 28 days.
† " " 27 "

B—*continued.*

stations in India, etc., in February, 1920—*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. 1919 to 29th Feb. 1920.	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.*
13	0	2	1	0	0	4	2	7	N 64° W	N 74° W	1·2	2·2	−1·0	25	− 5	72	+ 3	·338	+·013	1·7	−1·1	2	+0·5	0·69	0·63	+0·06	0·74	1·77	−1·03	0·30	Lucknow.
13	2	1	4	0	1	1	5	2	N 45° W	N 68° W	1·9	2·3	−0·4	11	−20	76	− 1	·326	−·030	2·2	+0·1	1	−1·2	0·32	0·98	−0·66	1·04	2·31	−1·27	0·18	Bahraich.
9	0	8	1	0	0	10	1	5	S 81° W	S 81° W	3·1	1·8	+1·3	29	+ 6	58	+ 2	·303	−·007	1·0	−0·6	1	−0·2	0·24	0·47	−0·23	0·74	1·34	−0·60	0·15	Jhansi.
6	1	3	5	0	0	5	7	2	N 78° W	N 53° W	2·8	3·1	−0·3	18	−21	59	− 4	·319	+·024	2·5	−0·1	3	+1·9	1·06	0·49	+0·57	1·63	1·33	+0·30	0·50	Agra.
12	2	1	2	3	0	2	3	4	N 49° W	N 63° W	1·7	1·5	+0·2	11	− 9	67	− 3	·299	−·008	2·2	−1·0	1	−0·6	0·59	0·72	−0·13	1·14	1·76	−0·62	0·51	Mainpuri.
10	1	0	2	1	1	2	11	1	S 82° W	N 51° W	1·8	2·3	−0·5	36	+10	72	− 3	·306	−·011	3·3	+0·4	2	+0·2	0·46	0·93	−0·47	1·86	2·32	−0·46	0·25	Bareilly.
18	0	0	0	3	0	0	0	8	N 15° W	N 40° W	2·8	2·0	+0·8	14	+ 2	76	− 3	·291	−·009	2·0	−1·1	1	+1·7	0·36	1·53	−1·17	1·37	3·80	−2·43	0·22	Roorkee.
																															VI.—Punjab.
10	0	2	1	2	0	0	7	7	N 59° W	N 86° W	2·1	2·6	−0·5	32	− 1	63	0	·274	0	1·4	−2·0	1	−0·7	0·33	0·80	−0·47	1·30	2·31	−1·01	0·33	Delhi.
4	1	0	2	4	4	4	7	3	S 47° W	S 76° W	3·9	3·0	+0·9	36	+32	68	− 3	·265	−·011	2·0	−1·4	1	−0·1	0·35	0·38	−0·03	1·62	1·41	+0·21	0·35	Hissar.
4	8	2	0	5	0	0	4	6	N 15° W		4·6			38		78	+ 3	·319	+·009	2·0	−1·6	1	−1·3	1·40	1·44	−0·04	2·70	3·19	−0·49	1·40	Patiala.
2	7	0	5	3	0	0	0	12	N 5° W	N 39° W	5·2	1·7	−3·5	46	+21	70	−10	·274	−·032	3·2	−0·5	2	−1·3	0·63	1·91	−1·28	2·85	4·12	−1·27	0·46	Ambala.
17	1	2	0	2	2	1	1	3	N 68° W	N 52° W	2·0	1·4	−0·6	3	−25	78	+ 2	·295	+·003	2·4	−1·4	1	−1·7	0·76	1·39	−0·63	3·13	3·90	−0·77	0·68	Ludhiana.
14	5	0	1	3	0	1	2	3	N 22° W	N 23° W	1·5	1·6	−0·1	18	+ 9	8[illegible]	+ 1	·291	+·002	4·9	+[illegible]·3	2	−0·3	0·77	1·00	−0·23	3·65	2·47	+0·18	0·57	Lahore.
11	4	1	1	3	1	0	4	4	N 35° W	N 18° E	1·2	1·3	−0·1	18	+ 4	86	+ 9	·311	+·018	4·0	+1·0	3	−0·1	1·41	1·69	−0·28	4·65	4·55	+0·10	0·69	Sialkot.
9	2	3	1	1	0	2	10	1	N 71° W	N 45° W	2·6	1·7	+0·9	29	+ 5	80	+ 1	·[illegible]57	+·007	3·0	−1·2	3	−0·9	1·31	2·35	−[illegible]·04	6·24	6·00	+0·24	0·75	Rawalpindi.
23	1	1	2	0	0	1	1	0	N 45° E	N 29° E	1·8	2·4	−0·6	4	− 7	73	+ 7	·266	+·023	4·2	+1·1	2	−0·2	0·89	0·99	−0·19	3·41	2·21	+1·20	0·40	Khushab.
15	1	5	2	0	0	1	3	2	N 5° E		1·4			18		81*		·280*		4·9		1	−0·7	0·21	0·69	−0·48	1·87	1·38	+0·49	0·14	Lyallpur.
10	4	2	4	2	1	0	1	5	N 20° E	N 18° E	3·1	3·1	0	5	+ 9	68	+ 4	·269	+·024	2·3	−1·0	2	+0·5	0·33	0·51	−0·18	1·60	1·44	+0·16	0·17	Montgomery
20	0	2	0	2	0	1	0	4	N 18° W	N 37° E	1·3	1·3	0	7	−13	70	+ 5	290	+·027	1·7	−1·3	1	−0·3	0·38	0·38	−0·02	1·98	1·04	+0·94	0·36	Multan.
																															VII.—North-West Frontier Province.
28	0	0	0	0	3	0	0	0	S	S 27° W	0·8	2·3	−1·4	10	−29	79†	+ 7	·241†	+·002	4·0	−0·4	4	+0·8	0·91	1·44	−0·53	8·32	3·52	+4·80	0·42	Peshawar.
24	0	1	0	0	0	0	0	4	N 32° W	N 22° W	1·5	1·4	+0·1	14	−10	67*	− 2	25[illegible]*	+·010	3·4	+0·1	1	−0·8	0·16	0·71	−0·55	0·93	1·43	−0·50	0·10	D. I. Khan.
																															VIII.—Sind.
21	0	1	0	1	0	0	0	3	N 18° W	N 37° E	0·6	2·2	−1·6	7	−13	46*	−10	·24*	−·01	1·1	−1·9	1	0	0·37	·35	+0·02	0·78	0·77	+0·01	0·30	Jacobabad.
22	4	1	0	0	1	1	0	0	N	N 21° W	1·3	5·0	−3·7	10	−30	73	+17	382	+·095	0·4	−2·1	1	+0·4	0·33	0·30	+0·03	0·48	0·58	−0·10	0·33	Hyderabad.
3	7	9	2	0	0	1	3	4	N 7° E	N 39° E	7·7	7·2	+0·5	53	− 6	67	+ 1	·419	+·001	3·4	+1·1	1	−0·1	0·22	0·44	−0·22	0·45	1·13	−0·68	0·22	Khrachi.
																															IX.—Rajputana.
5	1	2	3	8	5	4	1	0	S 30° E	N 39° W	3·8	3·3	+0·5	46	+22	60	+ 8	·278	+·043	1·6	−1·5	0	−0·8	0·02	0·31	−0·29	0·07	0·36	−0·79	0·01	Bikaner.
14	0	14	0	0	0	1	0	0	N 45° E		2·6	—		46		4[illegible]†	0	·223†	+·014	2·2	−0·7	1	+0·4	0·18	0·20	−0·02	0·30	0·48	−0·18	0·10	Jodhpur.
16	1	4	3	0	0	0	2	3	N 17° E	N 2° W	2·6	2·8	−0·2	21	−10	52	− 1	·246	−·010	2·7	−0·3	1	+0·2	0·12	0·32	−0·20	1·16	1·00	+0·76	0·12	Jaipur.
29	0	0	0	0	0	0	0	0	Calm	N 2° W	1·3	1·8	−0·5			62†	0	·257†	−·013	0·7	−1·8	1	+0·2	0·20	0·28	−0·08	1·20	0·96	+0·24	0·15	Ajmer.
17	1	3	0	1	0	0	2	5	N 25° W		1·9†			25		45	− 2	·261	+·010	1·5	−0·4	1	+0·4	0·16	0·36	−0·20	1·15	0·91	+0·24	0·16	Kotah.

* Mean of 28 days.
† „ „ 27 „

Table

(2) Abstract of observations taken at 8 hrs. at 211

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 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	29·574	+·022	30·016	29·727	11th	29·412	29th	63·6	52·9	87·7	+1·5	53·7	−0·8	70·7	+0·3	34·0	102·0	28th	35·9	7th
	Bhuj	334	29·717	+·019	30·016	29·879	11th	29·556	29th	65·6	61·1	84·2	+0·5	55·4	−2·1	69·8	−0·8	28·8	99·8	29th	39·9	7th
	Jamnagar	61	30·010	+·009	30·019	30·157	11th	29·869	3rd	65·5	59·6	83·3	+1·2	56·8	+1·0	70·0	+1·1	26·5	97·1	28th	40·8	8th
	Dwarka	37	30·027	−·003	30·010	30·173	11th	29·858	29th	68·7	65·5	78·7	+0·6	64·1	+2·1	71·4	+1·3	14·6	96·1	22th	48·9	7th
	Rajkot	429	29·598	−·005	29·994	29·734	11th	29·457	29th	64·4	54·7	86·8	+0·2	57·8	+3·8?	72·3	+2·0?	29·0	99·8	28th	42·9	7th
	Veraval	*18*	30·033	+·022	29·995	30·138	11th	29·917	29th	67·2	60·2	82·2	+0·7	61·6	+1·0	71·9	+0·9	20·6	95·4	29th	48·6	7th
	Bhavnagar Para	55	29·994	+·013	29·997	30·120	11th	29·845	29th	66·1	55·1	87·7	+1·1	58·3	+0·4	73·0	+0·7	29·4	101·6	29th	39·6	7th
	Surat	39	30·007	+·017	29·991	30·120	11th	29·881	29th	67·0	59·2	87·6	−2·0	60·4	+1·3	74·1	−0·3	27·2	101·1	29th	47·9	7th
	Ahmadabad	163	29·891	+·022	30·010	30·012	12th	29·730	29th	65·8	57·1	88·8	+1·4	58·9	−0·6	73·8	+0·4	29·9	103·2	29th	36·0	6th
25	Bombay	37	29·992	+·011	29·970	30·062	11th	29·874	29th	72·3	66·2	83·7	+0·9	69·7	+1·3	76·7	+1·1	14·0	90·2	24th	62·3	7th
	Ratnagiri	207	29·796	+·007	29·945	29·852	7th	29·685	29th	77·2	65·9	88·3	+2·3	69·2	+2·1	78·7	+2·2	19·1	101·3	29th	63·1	7th
	Marmagao	*60*	29·954	+·015	29·950	30·005	26th	29·858	29th	73·4	69·8	85·6	+0·8	71·2	+0·4	78·4	+0·6	14·4	93·2	29th	68·1	7th
	Karwar	44	29·973	+·017	29·952	30·027	25th	29·895	29th	69·4	66·9	88·2	+2·2	67·3	+0·3	77·8	+1·3	20·9	93·7	21st	64·0	1st
26	Malegaon	1,430	28·584	+·014	30·003	28·664	11th	28·466	15th	65·9	54·4	90·6	+0·9	54·7	−0·1	72·6	+0·4	35·9	99·7	29th	40·2	7th
	Ahmadnagar	2,154	27·873	+·020	29·995	27·949	25th	27·781	15th	66·3	53·9	89·1	+0·8	55·4	+0·3	72·2	+0·5	33·7	96·2	29th	46·8	13th
	Poona	1,846	28·187	+·030	30·023	28·260	19th	28·098	1st	63·9	55·2	89·2	−1·7	54·7	−1·5	71·9	−1·6	34·5	97·0	29th	47·4	8th
	Sholapur	1,590	28·420	+·016	29·973	28·508	25th	28·319	1st	70·6	56·2	92·2	−1·0	62·5	+0·3	77·4	−0·2	29·7	98·6	29th	54·2	13th
	Bijapur	*1,948*	28·073	+·033	29·974	28·146	19th	27·983	15th	71·3	59·1	90·4	−0·6	63·2	−0·4	76·8	−0·5	27·2	95·4	16th	57·8	3rd
	Belgaum	2,532	27·471	+·025	29·976	27·553	26th	27·392	29th	68·1	57·1	88·5	+0·2	59·1	−0·3	73·8	−0·1	29·4	93·2	21th	52·7	9th
	XI.—Central India.																					
20	Neemuch	1,626	28·386	+·004	30·020	28·531	11th	28·234	14th & 15th.	62·0	53·9	90·8	+0·2	52·1	+0·5	66·5	+0·3	28·7	94·7	29th	36·8	7th
	Indore	1,823	28·193	+·018	30·007	28·294	12th	28·074	15th	65·9	55·0	82·7	−0·1	52·7	+0·8	67·7	+0·3	30·0	93·3	29th	37·1	7th
21	Mowgong	754	29·251	−·007	30·065	29·512	7th	29·064	29th	56·3	50·0	80·2	+0·7	50·4	−0·4	65·3	+0·1	29·8	94·1	28th	37·4	8th
	Satna	1,041	28·959	+·002	30·003	29·079	11th	28·789	29th	60·5	54·3	79·5	+0·4	52·1	0	65·8	+0·2	27·4	92·8	28th	37·8	8th
	XII.—Central Provinces.																					
22	Buldana	2,134								70·5	56·0	83·9	−2·0	61·6	−0·3	72·8	−1·1	22·3	93·5	29th	49·9	7th
	Akola	925	29·091	+·019	29·997	29·191	12th	28·947	15th	68·3	53·9	90·6	+0·1	56·8	−0·3	73·7	−0·1	33·8	99·3	29th	47·4	12th & 13th.
	Amraoti	1,215	28·791	+·013	29·985	28·882	26th	28·655	15th	68·7	54·8	89·1	−0·6	61·4	−0·3	75·2	−0·5	27·7	97·6	17th	51·9	12th
23	Khandwa	1,044	28·972	+·017	30·010	29·096	7th	28·821	15th	64·4	54·6	87·2	−1·3	55·5	−0·1	71·3	−0·7	31·7	97·4	26th	40·3	7th
	Hoshangabad	1,006	29·012	+·008	30·025	29·133	7th	28·853	15th	59·9	52·8	84·2	−0·9	53·0	−2·4?	68·6	−1·7?	31·2	94·7	29th	43·4	13th
	Saugor	1,807	28·153	−·039?	29·970	28·260	26th	27·994	15th	60·3	48·4	81·5	+1·0	55·7	+0·5	68·6	+0·7	25·8	93·4	26th	40·6	8th
	Jubbulpore	1,327	28·647	−·016	29·982	28·760	11th	28·479	15th	59·5	50·6	82·3	+0·6	52·9	+0·9	67·6	+0·7	29·4	92·8	26th & 27th.	42·9	12th
	Seoni	2,033	27·769	+·012	29·999	28·055	25th & 26th.	27·797	15th	63·2	51·7	82·7	−0·9	54·8	0	68·7	−0·5	27·9	92·2	27th	45·2	8th
	Nagpur	1,017	28·998	+·019	29·994	29·095	12th	28·835	15th	66·0	56·8	83·9	+0·1	58·5	−1·1	73·7	−0·5	30·4	97·5	27th	51·6	11th
24	Pendra	2,040	27·958	+·018	30·001	28·059	17th	27·808	15th	61·6	51·7	79·7	+1·5	54·4	+0·5	67·0	+1·0	25·3	96·7	27th	42·9	8th

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

B—*continued.*

stations in India, etc., in February, 1920—*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. 1919 to 29th Feb. 1920.	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.
6	0	13	7	0	0	2	1	0	N 60° E	N 30° E	5·9	6·3	−0·4	56	+20	40	− 1	·243	+·011	1·4	−0·5	0	−0·4	0·03	0·15	− 0·12	0·03	0·32	− 0·29	0·03	Deesa.
18	4	1	1	0	0	0	5	0	N 35° W	N 69° W	3·9	5·3	−1·4	21	−14	76	+15	·489	+·108	1·0	−0·5	0	−0·4	0·06	0·16	− 0·10	0·06	0·26	− 0·20	0·06	Bhuj.
2	1	1	8	0	6	2	6	3	S 13° W		5·8			13		69	+ 6	·436	+·060	1·5	+0·3	0	−0·3	0	0·13	− 0·13	0	0·21	− 0·21	0	Jamnagar.
2	10	5	3	1	0	0	3	5	N 3° E		8·5			56		82	+13	·594	+·100	0·9	1·[illegible]	1	+0·4	0·51	0·39	+ 0·12	0·51	0·48	+ 0·03	0·51	Dwarka.
13	2	4	2	1	0	2	3	2	N 4° W	N 2° W	4·4	4·5	−0·1	14	−17	53	− 3	·312	−·025	3·7	+2·4P	0	−0·3	0·05	0·11	− 0·06	0·14	0·19	− 0·05	0·05	Rajkot
5	13	6	1	0	0	0	0	4	N 7° E	N 7° E	2·1	5·2	−3·1	70	− 2	65	+ 8	·438	+·058	0·4	−1·1	1	+0·8	0·25	0·05	+ 0·20	0·74	0·16	+ 0·58	0·25	Veraval.
0	4	1	0	0	0	1	12	11	N 59° W	S 85° W	2·9	5·9	−3·0	79	+14	46	− 6	·297	−·030	1·1	−0·4	1	+0·7	0·14	0·10	+ 0·04	3·20	0·21	+ 2·99	0·14	Bhavnagar Para.
12	5	6	3	1	0	1	0	1	N 37° E	N 27° W	5·7	3·7	+2·0	39	− 4	61	− 1	·407	−·002	1·1	+0·1	1	+0·8	0·28	0·07	+ 0·21	3·89	0·17	+ 3·72	0·28	Surat.
4	1	10	7	0	0	3	0	4	N 46° E	N 11° E	3·4	2·9	+0·5	46	−12	56	+11	·371	+·073	0·4	−1·2	0	−0·3	0	0·10	− 0·10	0	0·15	− 0·15	0	Ahmadabad.
0	6	13	7	2	0	0	0	1	N 50° E	N 47° E	6·3	7·6	−1·3	78	+ 7	71	0	·566	+·005	0·7	−0·6	1	+ ·9	0·33	0·04	+ 0·29	1·32	0·18	+ 1·14	0·28	Bombay.
5	3	10	5	6	0	0	0	0	N 70° E	N 73° E	7·1	6·0	+1·1	60	+20	54	−11	·480	−·045	0·2	−0·7	0	−0·1	0	0·02	− 0·02	0·06	0·21	− 0·15	0	Ratnagiri.
1	2	4	7	1	0	0	0	2	N 59° E*	N 80° E	6·4†	6·8	− ·0·4	36	−12	53	+ 1	·681	−·001	1·3	+0·2	0	−0·1	0	0·02	− 0·02	2·44	0·24	+ 2·20	0	Marmagao.
29	0	0	0	0	0	0	0	0	Calm	N 55° E	1·2	3·0	−1·8			87	+ 4	·6 8	+·024	2·0	+1·2	0	0	0	0·01	− 0·01	0·59	0·31	+ 0·28	0	Karwar.
3	0	0	0	1	2	17	6	0	S 50° W	N 63° W	4·3	4·5	−0·2	82	+11	45	− 1	·286	+·001	0·3	−1·0	0	−0·2	0	0·07	− 0·07	1·35	0·42	+ 0·93	0	Malegaon.
18	1	0	0	0	0	0	2	8	N 49° W	N 13° W	4·5	6·1	−1·6	36	+ 1	42	− 8	·264	−·063	0	−1·0	0	−0·3	0	0·15	− 0·15	2·42	0·75	+ 1·67	0	Ahmadnagar.
22	0	0	1	0	0	0	4	2	N 72° W	N 76° W	5·2	5·2	0	13	− 3	57	+ 6	·329	+·028	1·0	0	0	−0·1	0	0·14	− 0·04	0·25	0·27	− 0·02	0	Poona.
4	4	7	3	1	1	0	0	9	N 10° E	N 72° E	5·7	5·5	+0·2	46	+30	38	0	·276	−·016	0·1	−1·0	0	−0·1	0	0·05	− 0·05	0·54	0·70	− 0·16	0	Sholapur.
17	5	1	0	0	2	1	0	3	N 22° W	N 79° W	1·4	3·5	−2·1	21	− 1	47	− 6	·358	−·052	0	−1·2	0	−0·3	0	0·06	− 0·06	0·59	0·41	+ 0·18	0	Bijapur.
20	5	1	0	2	1	0	0	0	N 33° E	N 68° E	3·2	7·1	−3·9	14	−10	51	+ 3	·335	−·010	0·6	−0·7	0	−0·1	0	0·03	− 0·03	0·47	0·56	− 0·09	0	Belgaum.
																															XI.—Central India.
20	0	1	4	0	0	0	4	0	N 45° E	N 30° E	3·2	5·1	−1·9	4	−27	58	+11	·347	+·101P	1·3	−0·5	0	−0·4	0·05	0·20	− 0·15	0·26	0·60	− 0·34	0·05	Neemuch.
15	3	2	2	1	0	0	4	2	N 14° W	N 29° W	2·8	2·0	+0·8	18	+ 6	47	− 2	·306	+·028	0·8	−0·9	0	−0·5	0	0·17	− 0·17	4·17	0·53	+ 3·64	0	Indore.
3	2	1	3	1	0	8	4	7	N 83° W	N 65° W	1·5	1·5	0	36	+17	62	− 3	·283	−·036	1·7	−1·1	1	−0·1	0·31	0·51	− 0·20	0·34	1·60	− 1·26	0·26	Nowgong.
12	0	0	4	0	1	8	3	1	S 42° W	N 30° W	1·9	3·5	−1·6	29	− 6	70	+11	·366	+·064	1·3	−1·3	0	−1·7	0·03	0·74	− 0·71	0·10	2·01	− 1·91	0·02	Sutna.
																															XII.—Central Provinces.
4	0	2	4	2	0	1	7	9	N 49° W		2·7	4·7	−2·0	31		38		·274		0·8		0	−0·5	0	0·26	− 0·26	0	1·10	− 1·10	0	Buldana.
8	0	3	4	3	2	2	5	2	S 11° E	S 34° E	3·7	3·1	+0·6	7	− 1	40	− 3	·254	−·024	0·5	−1·2	0	−0·5	0	0·24	− 0·24	1·52	1·25	+ 0·27	0	Akola.
0	2	10	3	0	0	10	3	1	N 15° W	S 83° E	4·8	3·5	+1·4	11	−21	37	− 9	·240	−·075	0·8	−0·7	0	−0·6	0	0·29	− 0·29	1·45	1·24	+ 0·21	0	Amraoti.
2	3	4	1	1	1	6	7	3	N 77° W	N 18° W	[illegible]·7	1·0	+0·7	32	+ 8	50	+ 7	·301	+·051	0·9	−0·5	0	−0·3	0	0·12	− 0·12	3·87	0·64	+ 3·23	0	Khandwa.
24	0	5	0	0	0	0	0	0	N 45° E	N 60° E	0·8	2·1	−1·3	14	−26	57	+ 2	·309	+·007	0·3	−1·5	0	−0·9	0	0·34	− 0·34	1·68	1·06	+ 0·62	0	Hoshangabad.
6	2	3	5	1	0	6	5	1	S 87° W	S 72° E	4·6	2·7	+1·9	7	−24	39	− 8	·197	−·059	1·0	−0·8	0	−1·1	0	0·42	− 0·42	0·48	1·45	− 0·97	0	Saugor.
4	2	3	3	8	3	1	1	2	S 67° E	S 63° E	1·8	1·8	0	29	+ 9	50	−15	·259	−·074	0·7	−1·3	0	−1·7	0	0·81	− 0·81	0·25	1·78	− 1·53	0	Jubbulpore.
18	5	4	0	0	0	0	1	1	N 7° E	N 31° E	3·4	2·1	+1·3	32	− 4	42	−15	·244	−·090	0·5	−1·6	0	−2·0	0	0·88	− 0·88	2·36	1·94	+ 0·42	0	Seoni.
4	8	7	2	0	0	1	1	6	N 4° E	N 18° E	3·5	3·2	+0·3	56	+20	47	− 3	·318	−·017	0·4	−1·7	0	−1·3	0	0·52	− 0·52	0·45	1·45	− 1·00	0	Nagpur.
23	1	0	0	0	0	1	1	3	N 57° W		2·8			14		48	− 8	·263	−·039	2·1	−0·1	0	−3·4	0·08	1·80	− 1·72	0·08	2·80	− 2·72	0·08	Pendra.

* Wind observations for 17 days.
† Mean of 17 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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
	XII.—Central Provinces *—concld.*																					
	Raipur	970	29·017	−·010	29·967	29·129	5th	28·811	15th	67·6	57·3	86·7	+0·2	60·1	0	73·4	+0·1	26·6	95·6	27th	51·9	12th & 13th.
	Chanda	*634*	29·376	+·006	29·978	29·451	5th	29·231	15th	67·6	58·3	91·4	+0·3	57·7	−1·4	74·6	−0·5	3[illegible]·7	98·5	19th	48·0	13th
	Jagdalpur	1,813	28·191		29·284	28·283	25th	28·077	15th	66·3	6[illegible]·2	87·1		57·4		72·3		29·7	93·8	28th	49·3	13th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·120	+·012	29·999	28·199	11th	27·999	15th	67·6	54·3	88·1	−0·8	59·1	+1·0	73·6	+0·1	29·0	97·2	29th	43·2	7th
	Nizamabad	1,248	28·764	+·014	29·979	2[illegible]·847	25th	28·644	15th	71·3	58·7	92·7	+2·0P	59·4	−1·6	76·1	+0·2P	3[illegible]·3	98·9	29th	49·3	13th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·516	+·029	29·982	28·588	25th	28·427	15th	71·1	60·7	93·2	+0·7	62·4	−1·5	77·8	−0·4	30·8	98·0	27th	55·6	1st
	Raichur	*1,311*	28·700	+·041	29·967	28·775	25th	28·611	29th	74·2	61·2	92·7	+0·5	67·1	−1·1	79·9	−0·3	2[illegible]·6	97·1	16th	63·1	1st, 5th & 7th.
	Hyderabad (Deccan)	1,719	28·302	+·032	29·981	28·392	25th	28·201	15th	70·5	61·2	88·4	−1·8P	63·1	−0·9	75·7	−1·3P	25·3	92·8	29th	57·0	1st
	Hanamkonda	877	29·138	+·023	29·974	29·219	19th	29·017	15th	74·2	64·6	91·0	+0·9	66·5	+0·4	78·7	+0·7	24·5	96·4	28th & 29th.	58·2	13th
	XIV.—Mysore.																					
29	Chitaldrug	2,465	27·614	+·020	29·932	27·691	25th	27·533	29th	73·7	61·9	89·6	+0·1	67·1	+1·4	78·3	+0·7	22·5	92·5	18th	61·9	1st
	Hassan	3,149	26·921	+·031	29·964	26·974	26th	26·861	29th	68·3	60·9	87·3	+0·6	58·9	+1·0	73·1	+0·8	28·4	92·2	16th	54·6	1st
	Bangalore	3,021	27·038	+·019	29·958	27·096	25th	26·972	29th	68·7	63·0	87·5	+1·5	61·5	+1·5	74·5	+1·5	26·0	91·7	16th	54·3	26th
	Mysore	2,518	27·515	+·014	29·947	27·569	26th	27·446	29th	72·0	63·7	89·5	+0·5	63·4	−0·1	76·5	+0·2	26·1	93·8	16th & 17th.	57·2	27th
	XV.—Madras.																					
30	Mangalore	72	29·946	+·013	29·950	2[illegible]·997	25th	29·872	29th	78·0	71·8	89·5	+1·0	72·0	+0·5	80·7	+0·7	17·5	100·1	28th	69·8	26th, 27th & 28th.
	Calicut	27	29·977	+·012	29·935	30·0[illegible]6	19th	29·895	25th	77·1	73·2	87·5	−0·9	72·8	0	80·2	−0·5	14·7	90·3	28th	66·5	28th
	Cochin	9	30·005	+·024	29·941	30·049	24th	29·927	29th	78·8	72·3	91·1	+0·9	74·6	+0·6	82·8	+0·7	16·5	98·8	27th	69·8	28th
	Trivandrum	198	29·813	+·038	29·843	29·860	19th	29·723	29th	77·0	72·4	86·4	+1·1	73·9	−0·1	80·2	+0·5	12·5	88·8	29th	70·6	13th
31	Pamban	37	29·975	+·006	29·940	30·0[illegible]6	24th	29·886	29th	80·3	75·4	86·5	+1·8	76·0	+1·4	81·2	+1·6	10·5	87·2	24th	74·7	24th
	Madura	447	29·582	+·019	29·967	29·643	25th	29·5[illegible]2	29th	77·5	72·3	91·7	−0·2	71·7	+1·8	81·7	+0·8	20·0	95·9	17th	65·7	28th
	Pudukkottai	318	29·717	+0.[illegible]	[illegible]·971	29·781	25th	29·643	29th	76·5	72·1	91·8	+0·3	71·1	+2·0	81·5	+1·1	20·7	95·7	16th	66·6	22nd
	Negapatam	31	29·993	+·015	29·954	30·054	24th	29·913	29th	78·0	73·3	86·3	+1·5	73·6	+0·9	79·9	+1·2	12·7	91·5	17th	69·7	22nd
	Trichinopoly	255	29·775	+·014	29·165	29·832	24th & 25th.	29·796	29th	78·4	73·3	93·6	+1·3	70·6	+1·8	82·1	+1·5	23·0	97·3	28th	65·2	22nd
	Coimbatore	1,341	28·685	+·021	29·972	28·740	25th	28·609	29th	74·4	69·3	92·0	+0·3	67·1	+1·2	79·5	+0·7	24·9	95·1	28th	59·6	27th & 28th.
	Salem	913	29·112	+·021	29·973	29·178	25th	29·025	29th	74·4	69·1	93·5	−0·1	68·0	+1·8	80·8	+0·9	25·5	96·9	17th & 29th.	58·0	27th
	Cuddalore	37	29·896	+·017	29·962	30·100	9th	29·919	29th	76·1	73·1	85·6	−0·1	71·1	+1·2	78·4	+0·5	14·5	90·9	17th	66·2	29th
	Vellore	707	29·309	−·003	29·968	29·401	25th	29·226	16th	72·3	68·9	90·7	+1·7	67·3	+0·6	79·0	+1·1	23·4	96·5	16th & 17th.	58·5	27th
	Madras	22	30·005	+·004	29·958	30·084	25th	29·931	29th	74·3	74·1	87·7	+0·9	70·9	+2·4	79·3	+1·7	16·8	91·4	17th	66·7	24th
	Cuddapah	428	28·584	+·011	29·953	29·674	26th	29·490	16th	78·7	70·3	95·1	+0·1	71·1	+[illegible]·8	83·1	+0·9	24·0	96·0	29th	64·1	27th

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

B—*continued.*

stations in India, etc., in February, 1920—*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. 1919 to 29th February 1920.	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.*
17	2	4	3	0	0	2	1	0	N 45° E	N 4° W	2·1	2·9	−0·8	14	+ 2	49	− 6	·334	−·024	0·9	−1·2	1	−0·5	0·18	0·75	−0·57	0·18	1·23	− 1·05	0·18	Raipur.
0	3	5	1	4	5	4	3	4	S 45° W	N 76° E	2·4	2·0	+0·4	4	−16	54	− 4	·368	−·033	0·6	−1·0	0	−1·1	0·03	0·69	−0·66	0·03	1·20	− 1·17	0·03	Chanda.
26	1	0	0	0	0	1	1	0	N 79° W		1·1			6		70		·449		0·1		0	−1·2	0·04	0·88	−0·84	0·88	1·36	− 0·38	0·04	Jagdalpur.
																															XIII.—Hyderabad.
18	1	1	4	1	0	2	6	0	S 79° W		6·2			7		39	+ 1	·264	−·018	0·8	−0·2	0	−0·3	0	0·14	−0·14	2·65	0·71	+ 1·94	0	Aurangabad.
11	4	2	2	1	1	0	4	4	N 23° W		1·7			29		44	−11	340	−·100	0·3	−1·0	0	−1·0	0	0·53	−0·53	1·09	0·79	+ 0·30	0	Nizamabad.
																									0·27			0·75			Bidar.
5	6	11	3	0	1	2	0	1	N 36° E	N 89° E	4·7	5·6	−0·9	53	+27	53	+ 3	·400	−·004	0	−0·9	0	−0·5	0	0·17	−0·17	0·02	0·53	− 0·51	0	Gulbarga.
4	5	6	2	5	2	1	0	4	N 47° E	N 23° E	4·3	5·1	−0·8	26	− 2	45	− 8	·375	−·074	0·4	−0·8	0	−0·5	0	0·23	−0·23	0·57	0·50	+ 0·07	0	Raichur.
17	0	1	1	1	1	1	2	5	N 62° W	S 58° E	2·3	3·0	−0·7	14	+ 5	56	− 9	·419	−·054	1·0	−0·8	0	−0·7	0	0·30	−0·30	1·67	0·65	+ 1·02	0	Hyderabad (Deccan).
16	1	0	0	7	3	0	0	2	S 33° E		1·9			21		58	− 9	·489	−·036	2·8	+0·1	0	−0·7	0	0·24	−0·24	0·19	0·90	− 0·71	0	Hanamkonda.
																															XIV.—Mysore.
14	0	0	5	4	0	2	4	0	S 30° E	S 6° E	3·4	4·6	−1·2	18	+ 2	49	− 4	·395	−·043	0·5	−1·0	0	−0·2	0	0·08	−0·08	0·62	0·57	+ 0·05	0	Chitaldrug.
13	1	2	9	4	0	0	0	0	S 88° E	S 72° E	3·4	2·0	+1·4	46	− 5	66	− 3	·451	−·032	3·5	+0·7	0	−0·3	0	0·12	−0·12	0·72	0·96	− 0·24	0	Hassan.
2	0	1	10	7	3	2	3	0	S 53° E	S 62° E	5·1	3·7	+1·4	49	− 6	71	0	·494	+·010	1·1	−0·8	0	−0·2	0	0·16	−0·16	1·72	0·87	+ 0·85	0	Bangalore.
8	2	4	3	2	3	4	2	1	S 45° E	S 89° E	4·6	5·8	−1·2	11	−11	63	− 6	·490	−·029	0·9	−2·2	1	+0·6	0·47	0·12	+0·35	0·63	0·64	− 0·01	0·38	Mysore.
																															XV.—Madras.
0	1	3	23	1	1	0	0	0	N 87° E	N 76° E	4·7	2·1	+2·6	92	+25	73	+ 1	·695	+·013	·3	−1·8	0	−0·1	0	0·02	−0·02	1·35	0·59	+ 0·76	0	Mangalore.
9	1	8	8	1	1	0	0	1	N 67° E	N 69° E	4·9	7·2	−2·3	53	−14	82	+ 3	·766	+·094	0·6	−1·3	0	−0·2	0	0·17	−0·17	3·49	1·69	+ 1·80	0	Calicut.
2	0	9	16	1	0	0	0	0	N 76° E	N 41° E	4·4	4·0	+0·4	82	+11	72	− 3	·706	−·028	0·6	−1·2	0	−1·2	0·01	0·83	−0·82	3·16	3·18	− 0·02	0·01	Cochin.
10	4	18	0	0	0	0	0	0	N 26° E	N 55° E	3·6	3·4	+0·2	67	+20	79	+ 2	·734	+·021	0·5	−2·0	0	−1·1	0	0·63	−0·63	12·15	3·66	+ 8·49	0	Trivandrum.
0	3	14	10	1	1	0	0	0	N 61° E	N 56° E	5·1	6·6	−1·5	82	+ 7	79	− 1	·814	+·013	2·2	−0·9	1	−0·2	0·10	0·82	−0·72	23·03	10·22	+12·81	0·10	Pamban.
4	6	7	5	1	1	0	1	4	N 29° E	N 14° E	3·5	3·3	+0·2	43	−14	77	+ 1	·727	+ 023	4·1	+1·2	0	−0·7	0·02	0·40	−0·38	6·90	2·66	+ 4·24	0·02	Madura.
15	8	4	2	0	0	0	0	0	N 24° E		3·2			41		80	− 1	·729	+·019	2·3	−2·4	0	−0·8	0	0·38	−0·38	0	4·13	− 4·13	0	Pudukkottai.
6	0	3	3	2	0	4	2	9	N 47° W	N 18° E	8·0	4·7	+3·3	25	−15	79	+ 1	·756	−·002	3·9	−0·5	1	+0·2	0·10	0·68	−0·58	25·25	14·13	+11·12	0·10	Negapatam.
6	3	13	1	0	2	1	2	1	N 34° E	N 27° E	2·1	2·8	−0·7	42	+ 6	77	− 1	·752	+·052	2·3	−0·5	0	−0·7	0	0·61	−0·61	11·62	3·84	+ 7·78	0	Trichinopoly.
18	0	9	2	0	0	0	0	0	N 53° E	N 63° E	2·9	2·1	+0·8	36	−27	77	− 5	·654	−·005	1·9	−2·2	0	−0·6	0	0·32	−0·32	3·71	2·09	+ 1·62	0	Coimbatore.
7	1	15	2	0	2	2	0	0	N 54° E	N 53° E	3·3	3·9	−0·6	49	− 6	75	0	·644	−·017	1·7	−0·5	0	−0·6	0	0·28	−0·28	3·11	1·59	+ 1·52	0	Salem.
11	2	0	0	0	2	2	3	9	N 65° W	N 60° W	5·1	1·6	+3·5	42	− 9	86	− 1	·773	+·001	2·8	0	0	−1·3	0	0·98	−0·98	24·06	9·85	+14·21	0	Cuddalore.
28	0	0	1	0	0	0	0	0	E		1·6			3		84	+ 2	·665	+·019	3·0	+0·6	0	−0·6	0	0·36	−0·36	6·21	4·89	+ 1·32	0	Vellore.
24	0	0	0	0	2	3	0	0	S 27° W	S 34° W	2·3	3·7	−1·4	18	+ 2	83	0	·788	+·036	1·1	−1·7	0	−0·6	0	0·30	−0·30	13·02	7·41	+ 5·61	0	Madras.
10	2	2	4	10	1	0	0	0	S 69° E	S 72° E				46	−17	64	− 3	·634	+·012	0·2	−1·0	0	−0·2	0	0·12	−0·12	3·86	1·45	+ 2·41	0	Cuddapah.

Table

(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. 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.	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
	XV.—Madras— *concld.*																					
	Bellary*	1,475	28·544	+·030	29·967	28·614	25th	28·441	28th	75·7	63·0	94·3	+0·1	67·0	+1·1	80·7	+0·6	27·3	99·5	19th	61·7	1st
	Kurnool	923	29·081	+·016	29·965	29·158	25th & 26th.	28·994	15th	71·0	62·7	91·5	+0·4	65.1	+0·2	79·8	+0·3	29 4	98·2	24th	59·2	5th
33	Nellore	66	29·951	+·002	29·952	30·051	25th	29·863	4th	76·6	74·0	90·3	+0·2	71·4	+2·1	80·8	+1·1	18·9	96·7	16th	68·1	1st & 28th.
	Masulipatam	15	30·016	0	29·964	30·114	25th	29·917	15th	76·4	72·1	87·4	+0·7	70·4	+1·8	78·9	+1·3	17·0	92·3	22nd	66·2	28th
	Cocanada	26	30·004	+·001	29·967	30·108	25th	29·897	15th	75·6	71·4	87·9	+2·3	71·0	+1·3	79·5	+1·8	16·9	94·2	22nd	65·2	1st
	Vizagapatam	38	29·979	—·004	29·955	30·085	25th	29·871	15th	76·8	71·5	84·6	+2·8	72·7	+0·3	78·6	+1·5	11·9	88·8	28th	65·1	1st
	Calingapatam	19	30·001		29·958	30·101	25th	29·893	4th	73·7	70·2	83·2		69·2		79·2		20·0	94·4	29th	63·6	2nd
	Gopalpur	56	29·948	—·012	29·946	30·055	15th	29·803	15th	72·0†	67·4‡	85·5†	+2·3†	68·0†	+0·7†	76·8‡	+1·5	17·5	92·4	24th	63·9	22nd
	Bay Stations.																					
1	P. V. Fraser	8	29·971		29·951	30·077	25th	29·864	15th	75·8	71·2											
	Port Blair	58	29·936	+·007	29·925	29·985	17th	29·852	28th	76·3	72·6	84·7	—3·2	72·7	—2·4	78·7	—2·8	12·0	86·8	21st & 28th.	70·1	18th
	Table Island	90	29·915	+·015	29·940	29·987	25th	29·840	28th	76·7	71·5	82·8	—1·6	74·6	—0·7	78·7	—1·1	8·2	85·2	25th	71·3	15th
	Kashmir.																					
13	Muzaffarabad		27·622			27·759	7th	27·406	4th	48·1	43·0	59·1		41·2		50·2		17·9	72·4	22nd	31·3	10th & 12th.
	Srinagar	5,204	24·961	+·008	24·932	25·232	26th	24·570	4th	28·6	36· ‡	39·2	—4·3	25·1	—3·3	32·2	—3·8	14·1	46·9	19th	8·7	14th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·748	—·010	20·716	21·071	26th	20·308	5th	4·3		22·1	—1·0	—4·2	—6·6	8·9	—3·8	26·3	38·8	29th	—35·8	12th
	Leh	*11,503*	19·586	—·038	19·556	19·893	26th	19·165	5th	13·3		28·7	—3·8	9·1	—0·7	19·0	—2·3	19·6	42·7	29th	—4·0	12th
	Skardu	*7,505*	22·868	—·052	22·838	23·204	26th	22·405	4th	13·7		34·3	—3·9	15·5	—3·3	24·9	—3·6	18·8	50·0	29th	—2·7	11th
	Gilgit	4,890	25·219	—·004	25·183	25·516	28th	24·761	4th	31·1	39·4	53·1	+1·7	37·0	+0·5	45·0	+1·1	16·1	69·7	29th	27·7	7th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·429		25·398	25·600	26th	25·232	4th	39·2	39·1§	60·3		34·6		47·5		25·7	77.9	28th	17·6	6th
	Quetta	5,502	24·673	+·004	24·633	24·815	28th	24·483	3rd	34·6	41·7‖	51.7	—1·2	30·0	—1·2	40·8	—1·2	21·7	71·7	27th	10·7	5th, 6th & 7th
	Chaman	4,311	25·740	—·011	25·702	25·902	28th	25·569	8th	39·9	41·9§	55·0	—2·4	33·0	—4·9	44·0	—3·7	22·0	73·8	23rd	10·5	6th
	Kalat	6,630	23·724		23·686	23·902	27th	23·533	5th	31·0	39·3‖	49·7	—3·5	26·9		38·2		22·8	68·0	28th	5·1	10th
	Dalbandin	2,772	27·227		27·190	27·389	28th	27·052	2nd	42·6	42·0¶	64·4		38·1		51·4		26·0	83·7	27th	13·4	7th
	Pasni		30·080		30·040	30·216	6th	29·918	3rd	59·7	58·8 **	76·8		49·7		63·3		27·1	95·0	29th	21·3	6th
	Panjgur	3·177	26·827		26·785	26·961	24th	26·653	8th	46·0	43·4 ‖‖	65·3		41·6		53·4		43·7	82.6	27th	23·4	5th & 6
	Seistan		28·366			28·670	4th	28·140	2nd	38·9	39·6	56·5		34·7		45·6		21·8	74·0	23rd	21·7	5th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·434	—·016	24·410	24·653	27th	24·121	4th	35·6	†† 37·3	50·9	+0·7	30·6	+0·3	40·7	+0·5	20·2	68·4	29th	14·5	5th
	Cherat	*4,956*	25·750	+·005	25·718	25·960	26th	25·476	4th	42·3	39·6§	50·6	—1·7	39·0	—1·4	44·8	—1·5	11·6	64·3	23rd	24·9	5th
	Drosh (*e*)	4,500	25·148			25·400	26th & 27th.	24·800	4th	36·7	‡‡ 36.9 §§	48·3	—1·8	24·0	+1·3	41·2	—0·3	14·3	62·1	28th	22·6	8th
	Murree	6,323	23·947	—·011	23·915	24·161	26th	23·657	4th	33·2	33·1	44·1	—3·0	24·3	+0·5	39·2	—1·3	9·8	58·1	27th	17·8	6th

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

(*e*) Aneroid.

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

* Mean of 27 days.
† " " 21 "
‡ " " 9 "
§ " " 20 "
‖ " " 14 "
¶ " " 31 "

** Mean of 26 days.
†† " " 15 "
‡‡ " " 19 "
§§ " " 18 "
‖‖ " " 21 "

B—*continued.*

stations in India, etc., in February, 1920—*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. 1919 to 29th Feb. 1920.	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	3	1	1	3	6	N 57° W	S 11° E	2·7*	2·9	−0·2	17	−3	46	−8	·412	−·035	0·3	−1·3	0	−0·2	0	0·08	−0·08	0·25	0·30	−0·05	0	Bellary.
23	0	0	0	0	0	0	1	0	W	S 58° E	0·8			3	−5	61	0	·465	−·024	0·2	−0·9	0	−0·2	0	0·14	−0·14	0·83	0·56	+0·27	0	Kurnool.
9	0	0	0	5	11	1	1	2	S 2° E	S 14° E	2·2	3·4	−1·2	48	+32	88	+3	·805	+·068	1·3	−2·0	0	−0·4	0	0·13	−0·13	14·23	4·71	+9·52	0	Nellore.
4	9	12	1	2	1	0	0	0	N 36° E	N 41° E	3·5	3·4	+0·1	67	+43	85	−1	·768	+·014	2·2	−0·5	1	+0·5	0·20	0·42	−0·22	1·40	1·56	−0·16	0·20	Masulipatam.
22	2	1	0	0	0	0	1	3	N 7° W	N 17° W	4·4	5·3	−0·9	9	−58	81	+4	·716	+·049	4·1	+1·4	0	−0·5	0	0·34	−0·34	0·34	1·46	−1·12	0	Cocanada.
7	0	2	0	0	0	1	8	11	N 61° W	N 86° W	6·7			60	−3	78	+3	·704	+·059	3·8	+1·0	1	+0·2	1·36	0·89	+0·47	1·39	2·29	−0·90	1·36	Vizagapatam.
0	2	1	1	0	0	2	11	12	N 62° W		5·2			72		84		·694		1·5		2	+1·4	0·37	0·15	+0·42	0·69	1·87	−1·18	0·20	Calingapatam.
3	20	3	0	0	0	2	1	0	N 1° E	N 37° W	7·2	8·0	−0·8	71	+9	77†	−1	·602†	−·012	1·4	+0·4	0	−1·0	0	0·49	−0·49	0	1·54	−1·54	0	Gopalpur.
																															Bay Stations.
3	2	4	2	3	2	9	3	1	S 31° W					21		79		·707		2·2		3	+2·2	3·20	0·54	+2·66	3·20	2·11	+1·09	1·40	P. V. Fraser.
1	7	5	1	0	0	0	2	13	N 19° W	N 9° E	4·3	3·7	+0·6	74	+23	83	−1	·751	−·062	3·2	−0·5	1	−0·3	0·29	0·95	−0·66	15·27	9·44	+5·83	0·20	Port Blair.
3	17	3	0	0	0	0	0	6	N 5° W		6·3			82		77	−1	·707	−·050	2·8	−2·4	0	−0·3	0	0·14	−0·14	0·76	3·31	−2·55	0	Table Island.
																															Kashmir.
20	0	3	0	2	1	3	0	0	S 27° E		1·9			7		65		·219		6·2		8	+1·5	3·76	4·47	−0·71	12·22	11·34	+0·88	0·90	Muzaffarabad.
14	0	2	1	5	3	1	0	3	S 40° E	S 24° E	2·3	2·6	−0·3	18	−5	(a) 89	+1	(a) ·201	+·042	9·7	+2·1	7	+0·6	2·07	2·88	−0·81	7·70	7·13	+0·57	0·56	Srinagar.
																															Gulmarg.
23	0	0	0	0	0	2	2	2	W		1·3			17						8·0	+2·7	9	+1·6	4·78	2·64	+2·14	10·23	7·28	+2·95	1·75	Dras.
22	1	5	1	0	0	0	0	0	N 45° E	S 27° W	0·6	0·9	−0·3	29	−7					8·3	+1·9	2	+1·2	0·46	0·32	+0·14	1·18	0·87	+0·31	0·22	Leh.
17	0	2	1	0	2	4	3	0	S 45° W		2·0			14						7·5	+1·1	3	+0·5	0·63	0·75*	−0·12	2·41	2·15	+0·26	0·22	Skardu.
21	0	0	0	0	0	8	0	0	S 45° W		0·6			29		60	+5	·181	+·047	6·1	−0·8	1	+0·2	0·14	0·21	−0·07	0·80	0·57	+0·23	0·12	Gilgit.
																															Baluchistan.
24	0	0	1	0	0	1	2	1	W		2·9			8		65‡		·187‡		2·7		1	−2·2	0·39	1·07	−0·68	1·70	2·28	−0·58	0·29	Fort Sandeman.
15	1	1	1	4	4	0	2	1	S 23° E	S 4° W	3·0	2·6	+0·4	18	+6	79§	+4	·232§	+·059	4·7	+1·0	4	−0·6	1·12	1·95	−0·83	2·93	4·88	−1·95	0·36	Quetta.
15	0	1	3	5	2	3	0	0	S 37° E	S 46° E	3·3	6·1	−2·8	32	−29	71‡	+6	·222‡	+·037	5·3	+1·5	4	−0·1	1·02	1·52	−0·50	3·72	4·13	−0·41	0·27	Chaman.
13	1	0	1	1	6	4	1	2	S 25° W	S 32° W	5·0			29	−31	82§	+13	·217§	+·068	4·4		3	−0·3	1·09	1·17	−0·08	3·08	3·52	−0·44	0·42	Kalat.
15	0	9	2	1	0	1	0	1	N 53° E		4·3			36		70‖		·221‖		5·5		1	−1·7	0·66	1·46	−0·80	2·09	2·42	−0·33	0·59	Dalbandin.
6	4	2	3	1	0	0	2	11	N 21° W		5·1			46		83		·434		4·8		1	−1·6	0·17	2·71	−2·54	5·00	4·54	−0·46	0·17	Pasni.
7	3	9	7	1	1	1	0	0	N 63° E		6·1			49		67¶		·229¶		3·6		1	−1·2	0·29			2·01			0·24	Panjgur.
11	4	0	0	0	1	0	0	13	N 37° W		7·4			53		74†		·205†		3·7		1		0·18			1·50			0·17	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
29	0	0	0	0	0	0	0	0	Calm		0·7					60**	−7	·175**	+·020	4·1	0	6	+1·2	1·69	2·15	−0·49	5·64	5·62	+0·02	0·65	Parachinar.
7	15	0	0	1	2	0	0	4	N 8° W	N 16° W	7·3	9·9	−2·6	53	−3	49†	−7	·158‡	+·004	4·4	+0·3	4	−0·6	1·86	3·34	−1·48	11·72	7·31	−4·41	0·87	Chenat.
23	0	0	4	2	0	0	0	0	S 75° E		2·6			18		69††	−2	·177††	+·024	4·2	−0·1	2	−1·2	0·45	1·13	−0·68	3·33	3·06	+0·27	0·23	Drosh.
6	0	2	2	11	6	1	0	1	S 38° E	S 68° E	5·9	6·5	−0·	56	+16	61‡‡	−3	·172‡‡	+·030	5·8	+1·2	6	−0·1	3·38	4·31	−0·93	8·11	9·79	−1·68	1·23	Murree.

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

* Mean of 22 days.
† " " 21 "
‡ " " 20 "
§ " " 14 "
‖ " " 24 "
¶ " " 26 "
** " " 15 "
†† " " 19 "
‡‡ " " 18 "
‖‖ " " 21 "
( ) " " 9 "

Table

(2) Abstract of observations taken at 8 hrs. at 211

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
	Hill stations, excluding Kashmir and Baluchistan —*concld.*																					
	Simla	7,232	23·072	+·003	23·034	23·279	25th	22·877	5th	38·7	36·1*	44·9	−1·3	34·5	−0·8	39·7	−1·1	10·4	59·1	24th	18·2	7th
	Chakrata	6,922	23·330	−·052	23·290	23·529	26th	23·154	4th	41·6	35·9†	51·0	−0·1	36·5	+0·7	43·8	+0·3	14·5	68·7	28th	21·1	8th
	Mukteswar	7,592	22·820	−·006	22·779	23·021	25th	22·651	4th	39·2	36·7‡	49·7	−0·2	32·7	−2·5	41·2	−1·3	17·0	68·5	28th	21·2	7th
	Darjiling	7,432	22·919	−·029	22·874	23·091	24th	22·759	4th	38·8	38·3§	48·1	−0·3	35·9	+0·4	42·0	+0·1	12·2	62·4	28th	27·8	13th
	Shillong	4,920	25·167	+·002	25·119	25·312	25th	25·048	4th	48·2	44·7‖	60·7	−1·4	42·2	+0·7	51·4	−0·3	18·5	69·5	28th	30·7	14th
	Cherrapunji	4,309	25·737	+·002	25·688	25·879	25th	25·611	4th	53·3	48·6	61·0	+0·1	45·9	−0·3	54·0	−0·1	14·1	75·5	29th	36·3	13th
	Netarhat		26·065		26·014	26·084	12th	25·911	4th	59·1	50·7	67·6		44·5		56·1		23·1	76·7	1st	33·8	12th
	Maymyo	3,546	26·479	−·006	26·424	26·587	24th	26·386	14th	49·4	48·2	72·4	−2·6	44·5	+1·6	58·4	−0·5	27·9	80·2	28th	34·6	14th
	Pachmarhi	3,528	26·529	+·002	26·476	26·637	26th	26·376	15th	67·8	51·2	75·6	+0·4	54·6	+0·8	63·6	+0·6	24·0	85·0	26th & 27th.	38·1	12th
	Mount Abu	3,945	26·124	+·020	26·074	26·257	26th	25·961	4th	59·5	47·5¶	67·6	−0·1	54·5	+1·4	61·0	+0·7	13·1	81·0	28th & 29th.	36·2	7th
	Mercara	3,721	26·295	+·009	26·228	26·346	19th	26·234	29th	61·5	60·5	81·7	+0·5	58·2	−0·7	70·0	−0·1	23·5	85·0	17th, 18th & 29th.	54·4	1st
	Ootacamund	7,327	23·118	+·028	23·064	23·154	19th & 2nd.	23·058	1st	55·4	47·7	67·1	+0·4	44·6	+0·3	55·8	+0·3	22·5	69·5	16th, 18th & 29th.	38·3	4th
	Kodaikanal	7,688	22·879	+·010	22·814	22·910	18th	22·826	1st	55·0	46·3	67·5	+2·0	45·8	−2·2	56·6	−0·1	21·7	72·3	15th	42·1	27th
	Extra India.																					
	Singapore (*a*)	10	29·897	−·053	29·828	29·950	7th & 24th.	29·829	28th	83·4		88·2	+0·3	73·6	+1·2	80·9	+0·7	14·6	91·5	10th	71·0	16th
	Penang (*a*)	17	29·876	−·049	29·818	29·969	15th	29·820	28th	81·3		89·8	0	71·5	−2·3	80·7	−1·1	18·3	93·0	27th	70·0	7 days
	Trincomalee	99	29·919	+·029	29·847	29·964	19th	29·826	29th	76·9	72·9	88·2	+2·8	75·0	+0·3	81·6	+1·5	13·2	90·8	18th	71·6	15th
	Colombo	24	29·974	+·015	29·924	30·020	24th	29·891	28th	77·2	76·6	87·8	−0·8	71·5	−1·5	79·6	−1·1	16·3	91·8	27th	64·6	22nd
	Hambantota	54	29·937		29·829	29·982	24th	29·841	29th	77·0	69·9	86·7		72·3		79·5		14·4	88·4	22nd	68·7	23rd
	Minicoy	7	30·021	+·042		30·072	25th	29·950	29th													
	Amini Divi	*13*	30·002	+·008	29·943	30·053	24th	29·925	29th	81·1	75·7	89·7	+3·3	75·5	−0·4	82·6	+1·5	14·2	92·0	24th & 28th.	70·5	27th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,760	24·273	−·210	24·228	24·430	24th	24·133	4th	44·3	42·0	54·9	−4·2	42·3	+7·4	48·6	+1·6	12·6	70·3	28th	33·2	13th
	Gartok (*g*)	15,100																				
	Kashgar (*c*)	4,255	25·601	−·089		26·320	1st	25·240	4th	23·0		37·8	−4·8	18·6	−0·2	28·2	−2·5	19·2	51·8	29th	8·8	3rd
	Kabul (*c*)	...																				
	Meshed	3,104								26·4	34·0	43·1	−3·7	22·7	−5·5	32·9	−4·6	20·4	59·4	13th & 16th.	3·8	5th
	Jask	13	30·061	+·020	30·026	30·174	27th	29·945	21st	67·8	59·5	78·4	−1·4	58·6	−3·4	66·0	−1·7	14·8	81·1	29th	48·5	5th
	Muscat	20	30·082	+·018	30·050	30·196	5th	29·923	7th	68·3	61·7	75·3	+1·4	65·9	−1·6	70·6	−0·1	15·4	85·1	22nd	56·1	5th
	Bushire	14	30·070	+·025	30·047	30·276	23rd	29·903	21st	53·5	50·5	61·0	−4·5	50·2	−2·7	55·6	−3·6	8·8	68·9	29th	42·1	8th
	Basrah	25																				
	Ispahan (*c*)	*5,817*	24·175	−·045		24·410	27th	23·950	21st	25·8	?	42·9	−11·0	22·1	−5·6	33·0	−8·3	19·8	60·4	20th	7·9	10th
	Tehran (*c*) (*b*)	*4,009*	25·746	−·124		26·000	27th	25·500	21st	30·5	?	42·1	−8·8	24·4	−7·7	33·1	−8·3	17·7	53·5	15th, 16th & 18th.	0	3rd
	Baghdad	127	29·989	−·060	30·101	30·240	23rd	29·726	25th	39·6	38·8**	55·7	−10·1	37·8	−5·2	46·8	−7·7	17·9	62·9	28th	29·0	2nd
	Aden	94	29·932	−·024	29·860	30·015	12th	29·877	9th	76·2	71·4	81·2	+0·2	74·7	+1·4	77·9	+0·8	6·5	83·7	8th	71·7	16th
	Zanzibar	72	29·928	+·009	29·826	29·978	11th	29·815	1st	82·5	76·8	87·2	+0·2	80·4	+0·5	83·8	+0·4	6·8	88·9	16th	79·8	9th

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

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

* Mean of 20 days.
† " " 21 "
‡ " " 18 "
§ " " 23 "
‖ " " 27 "
¶ " " 14 "

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

** Mean of 21 days.
(*b*) " " 23 "

B—*concluded.*

stations in India, etc., in February, 1920—*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 Dec. 1919 to 29th February 1920.	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.*
																51§	− 5	·136§	+·008	5·1	+0·6	7	+1·1	2·84	3·29	−0·45	5·39	7·29	− 1·90	0·89	Simla.
2	0	15	7	2	0	1	0	2	N 59° E	N 66° E	7·0	4·6	+2·4	70	+39	56*	− 7	·165*	+·019	5·0	+1·2	9	+3·0	4·22	4·57	−0·35	7·13	10·31	− 3·18	1·43	Chakrata.
2	1	3	7	0	0	0	16	0	N 66° W		7·3			25		50†	− 9	·136†	−·005	4·2	+0·1	5	+0·2	1·32	2·69	−1·37	1·85	5·68	− 3·83	0·44	Mukteswar.
17	1	1	2	0	0	4	4	0	S 75° W	S 53° E	3·1	4·0	−0·9	14	− 6	84‡	+ 1	·211‡	+·008	6·7	+2·4	2	−0·6	0·68	1·11	−0·43	0·69	2·00	− 1·31	0·27	Darjiling.
23	0	0	0	0	3	3	0	0	S 22° W		1·7			21		73§	+ 5	·253§	+·014	3·4	+0·7	4	+1·2	1·10	1·40	−0·30	1·34	2·00	− 0·66	0·45	Shillong.
11	1	1	1	0	1	8	5	1	S 68° W		5·0			39		71	+ 3	·296	+·018	3·7	+0·6	5	+1·5	1·80	3·10	−1·30	1·82	4·06	− 2·24	0·41	Cherrapunji.
0	2	0	1	1	1	4	6	14	N 68° W		3·7			66		57		·277		0·7		1		0·50						0·50	Netarhat.
27	0	0	0	0	0	1	1	0	S 66° W		1·0			7		82	+ 9	·327	−·027	2·1	+0·6	1	+0·4	0·44	0·17	+0·27	1·33	0·92	+ 0·41	0·36	Maymyo.
3	2	3	1	2	0	4	5	9	N 57° W	S 23° W	4·2	3·2	+1·0	42	+26	51	+ 1	·273	−·003	0·8	−1·3	0	−1·5	0	0·65	−0·65	2·25	1·71	+ 0·54	0	Pachmarhi.
4	7	2	0	1	0	4	1	9	N 31° W	N 45° W	4·4	4·5	−0·1	49	+21	38‖	− 1	·190‖	+·001	1·5	−0·6	0	−0·6	0·10	0·31	−0·21	0·23	0·73	− 0·50	0·08	Mount Abu.
12	5	4	5	1	1	0	0	1	N 49° E	N 60° E	2·9	3·1	−0·2	36	− 6	79	+ 6	·479	+·022	0·8	−2·7	0	−0·4	0	0·17	−0·17	0·31	1·12	− 0·81	0	Mercara.
5	2	0	7	11	4	0	0	0	S 56° E		3·6			63		59	+ 8	·254	+·020	0·5	−1·5	0	−0·9	0	0·54	−0·54	7·07	4·13	+ 2·94	0	Ootacamund.
1	9	10	1	2	1	0	1	3	N 25° E		8·6			60		53	− 3	·227	−·012	0·6	−1·7	2	−0·1	0·38	1·36	−0·98	13·54	8·81	+ 4·73	0·22	Kodaikanal.
																															Extra India.
3	2	19	0	2	0	1	0	2	N 41° E					70						5·8	+1·2	12	+3·1	6·89	7·24	−0·35	29·48	30·71	− 1·23	1·18	Singapore.
0	18	9	0	1	1	0	0	0	N 17° E					79						5·2	+4·2	11	+6·2	7·83	3·48	+3·85	13·34	13·81	− 0·50	2·17	Penang.
4	1	5	6	0	2	9	2	0	S 18° E	N 7° E	5·0	5·0	0	14	− 7	82	− 3	·756	−·061	4·2	+1·2	2	−0·4	0·47	1·93	−1·46	23·53	21·78	+ 1·75	0·23	Trincomalee.
26	0	2	0	0	1	0	0	0	N 18° E	N 58° E	2·9	4·7	−1·8	5	−48	92	+13	·725	−·065	2·4	−0·4	4	+0·5	2·70	2·14	+ 0·56	14·02	11·19	+ 2·83	1·65	Colombo.
0	20	7	0	0	1	0	0	1	N 10° E		7·2	6·1	+1·1	88		85		·687	−·113	2·1		2		0·70	1·49	−0·79	10·34	10·39	− 0·05	0·30	Hambantota.
20	2	2	1	0	0	0	0	0	N 34° E	N 20° E	1·9	3·8	−1·9	16	−50					1·8	−1·3	1	−0·1	0·43	0·63	−0·20	8·12	5·92	+ 2·20	0·43	Minicoy.
3	18	4	0	0	0	0	0	4	N		4·2			81		70	− 3	·788	−·014	3·0	−0·8	0	−0·1	0	0·05	−0·05	8·61	1·64	+ 4·97	0	Amini Divi.
																															Gyantse.
																															Pharijong.
22	0	3	0	0	3	0	0	1	S 76° E		0·7			4		84	+ 5	·246	−·012	8·0	+4·8	6	+0·2	4·48	2·71	+1·77		4·74		3·04	Gangtok.
																															Gartok.
25	0	3	0	0	1	0	0	0	N 63° E	N 29° W	0·5	1·1	−0·6	6	− 4					7·7	+3·3	1	+0·5	0·15	0·20	−0·05		0·48		0·10	Kashgar.
										S 51° E															1·43			3·07			Kabul.
26	1	0	0	1	0	0	0	1	N		1·5			3		93	+10	·188	+·019	5·7	+1·2	6	+3·9	2·74	0·91	+1·83	6·42	2·34	+ 4·08		Meshed.
0	2	7	9	0	0	0	3	8	N 23° E	N 10° E	10·1	8·9	+1·2	49	−19	76	0	·463	+·009	4·6	+2·2	6	+4·1	1·78	0·91	+8·87	6·53	2·94	+ 3·59	0·65	Jask.
13	0	0	0	6	0	1	0	9	N 63° W	S 82° W	4·1	3·4	+0·7	11	−30	68	− 1	·473	−·032	4·0	+1·7	1	−0·7	0·54	0·88	−0·34	0·79	2·57	− 1·78	0·46	Muscat.
3	2	7	2	5	0	0	0	10	N 18° E	N 48° E	7·5	5·8	+1·7	36	−11	79	− 3	·334	−·032	6·9	+2·4	6	+2·4	4·61	1·93	+2·67	10·91	7·63	+ 3·28	1·72	Bushire.
																															Basrah.
21	0	1	0	0	0	3	2	2	W	S 82° W	1·6	3·4	−1·8	17	−25	89¶	?	·210¶	?	2·9	+0·3	3	+1·6	0·86	0·40	+0·46	3·95	1·89	+ 2·06	0·40	Ispahan.
18	4	2	0	0	2	0	0	2	N	N 22° E	2·9	2·6	+0·3	17	−13	83	+ 8	·179	+·033	5·1	+2·1	6	+3·0	2·86	0·98	+1·88	6·11	3·90	+ 2·21	0·85	Tehran.
4	2	4	0	2	3	1	6	7	N 59° W	N 8° E	5·8	3·2	+2·6	29	+ 6	73*	+ 1	·197*	−·070	5·2	+2·5	5	+2·5	1·50	1·31	+0·19	2·73	3·63	− 0·90	0·69	Baghdad.
4	2	19	2	0	0	0	0	2	N 39° E	N 81° E	12·6	11·2	+1·4	74	− 5	78	+ 1	·705	+·028	6·9	+1·0	0	−0·4	0	0·21	−0·21	0·10	0·68	− 0·58	0	Aden.
0	13	15	1	0	0	0	0	0	N 27° E	N 27° E	6·0	4·9	+1·1	93	+21	76	− 3	·344	−·024	6·7	+0·2	0	−3·5	0·08	2·23	−2·15	4·77	10·78	− 6·01	0·04	Zanzibar.

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

§ Mean of 90 days.
* " " 21 "
† " " 18 "
‡ " " 23 "

‖ Mean of 27 days.
" " 28 "
¶ " " 6 "

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in February, 1920.

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: 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
	II.—Assam.																								
4	Bishnath	56·7	54·1	75·2	+0·6	43·8	−4·5	59·5	−1·9	31·4	84·7	26th	35·9	24th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	61·8	58·9	83·2	+6·6	45·3*	−2·6	64·3*	+2·0	37·9	87·4	29th	41·8	14th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	60·1	57·6	79·3	−1·7	45·4	−6·2	62·3	−3·9	33·9	83·8	24th	30·9	13th & 15th.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	55·7	54·4	72·1	+7·3	52·2	+2·5	62·1	+4·9	19·9	84·1	26th	40·2	13th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	56·7	55·0	73·0	+0·2	52·3	+2·0	62·7	+1·1	20·7	83·8	26th	41·0	13th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	57·4	56·1	73·0	−1·0	50·8	...	61·9	...	22·2	82·9	26th	42·0	14th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	60·9	59·3	78·7	−0·8	56·7	+4·5	67·7	+1·9	22·0	87·4	29th	44·8	13th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	58·2	56·3	74·4	+0·4	52·9	+0·6	63·7	+0·5	21·5	84·1	26th	43·3	13th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	57·6	56·1	76·4	...	51·0	...	63·7	...	25·4	85·9	25th	39·0	14th	...	...	...	...	...	...	...	...	...	...	...
	Messa	65·4	59·9	79·1	−0·7	50·4	+2·5	64·7	+0·9	28·7	88·4	29th	39·8	13th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	54·4	53·1	75·6	+0·5	47·2	−1·1	61·4	−0·3	28·4	85·5	24th	33·8	12th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	64·3	59.2	82·3	+1·8	55·2	−0·4	68·7	+0·7	27·1	88·6	29th	48·1	15th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	67·0	61·7	82·2	+2·1	56·2†	+4·1†	69·2†	+3·1	26·0	88·9	28th	50·5	1st & 3rd	...	...	...	...	...	...	...	...	...	...	...
	Pabna	62·9	59·5	81·4	−1·2	55·6	+2·7	68·5	+0·7	25·8	89·2	28th	46·5	12th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	55·8	53·5	75·5	−5·4	47·7	+2·0	61·6	−1·7	27·8	86·9	24th	34·8	12th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	61·7	57·6	76·0	−0·2	48·8	0	62·4	−0·1	27·2	84·1	24th, 25th & 28th	39·0	12th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	64·9	58·1	75·9	−0·6	53·5	−0·3	64·7	−0·5	22·4	87·1	24th	41·2	12th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 27 days.
† " " 16 "

C.

and fifth class stations in India, etc., in February, 1920.

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. 1919 to 29th Feb. 1920.	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.
...	...	...	...	...	83	−11	·387	−·025	...	...	6	+2·5	4·10	1·47	+ 2·63	6·00	2·90	+ 3·10	1·53	Bishnath.
...	...	...	...	...	83	− 6	·461	+·055	...	...	6	+2·9	2·93	1·35	+ 1·58	4·41	2·30	+ 2·11	1·87	Borjuli.
...	...	...	...	...	87	− 6	·448	−·007	...	...	5	+2·2	3·78	1·76	+ 2·02	3·91	3·60	+ 0·31	2·32	Chandkhira.
...	...	...	...	...	92	− 2	·409	−·004	...	...	7	−0·5	3·44	2·82	+ 0·62	4·26	4·97	− 0·71	1·28	Doom Dooma.
...	...	...	...	...	90	− 4	·415	+·005	...	...	6	−0·6	3·75	2·42	+ 1·33	4·22	4·40	− 0·18	2·07	Dikom.
...	...	...	...	...	91	− 2	·437	+·003	...	...	6	+1·6	1·77	1·74	+ 0·03	2·03	3·28	− 1·25	0·40	Golaghat.
...	...	...	...	...	90	0	·485	+·057	...	...	6	+2·6	2·18	1·83	+ 0·35	2·25	3·89	− 1·64	0·74	Hailakandi.
...	...	...	...	...	88	− 6	·430	−·004	...	...	5	+0·4	2·54	1·71	+ 0·83	2·67	3·51	− 0·84	1·32	Jorehat.
...	...	...	...	...	91	...	·435	...	...	...	4	+1·2	1·79	1·20	+ 0·59	2·34	1·97	+ 0·37	0·82	Lumding.
...	...	...	...	...	71	−11	·448	+·019	...	...	4	+0·5	0·87	1·32	− 0·45	1·12	2·61	− 1·49	0·35	Messa.
...	...	...	...	...	92	+ 3	·395	+·046	...	...	2	−1·0	1·75	1·43	+ 0·32	1·75	2·25	− 0·50	1·20	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	6	+4·0	3·28	1·13	+ 2·15	3·32	1·71	+ 1·61	2·07	Comilla.
...	...	...	...	...	72	−10	·436	−·048	...	...	3	+0·6	1·62	1·38	+ 0·24	1·76	2·11	− 0·35	0·76	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	6	+3·8	2·48	1·28	+ 1·20	2·48	1·91	+ 0·57	0·70	Faridpur.
...	...	...	...	...	72	− 9	·480	+·038	...	...	5	+2·5	4·47	1·29	+ 3·18	4·47	1·87	+ 2·60	1·40	Goalundo.
...	...	...	...	...	81	+ 7	·472	+·037	...	...	3	+1·2	2·58	0·84	+ 1·74	2·58	1·43	+ 1·15	1·64	Pabna.
...	...	...	...	...	...	...	...	...	...	...	2	+0·3	0·75	0·82	− 0·07	0·75	1·29	− 0·54	0·35	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	2	+0·4	0·96	0·61	+ 0·35	0·96	1·03	− 0·07	0·75	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	3	+1·2	1·37	0·92	+ 0·45	1·37	1·57	− 0·20	0·55	Malda.
...	...	...	...	...	...	...	...	...	...	...	3	+1·7	0·76	0·64	+ 0·12	0·76	1·07	− 0·31	0·42	Rangpur.
...	...	...	...	...	85	− 8	·387	+·016	...	...	1	−1·3	0·23	1·08	− 0·85	0·23	1·78	− 1·55	0·15	Dam Dim.
...	...	...	...	...	75	− 2	·434	+·009	...	...	1	−1·9	0·19	1·39	− 1·20	0·40	2·17	− 1·77	0·19	Kalchini.
...	...	...	...	...	66	− 9	·400	+·030	...	...	2	−1·4	0·50	1·37	− 0·87	0·64	2·36	− 1·72	0·24	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	1	−0·9	0·74	0·93	− 0·19	0·74	1·27	− 0·53	0·67	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	4	+2·3	1·25	1·28	− 0·03	1·25	1·88	− 0·63	0·41	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	3	+1·0	1·40	1·12	+ 0·28	1·40	1·64	− 0·24	0·73	Bankura.
...	...	...	...	...	...	...	...	...	...	...	2	+0·2	0·51	0·97	− 0·46	0·51	1·57	− 1·06	0·32	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	3	+0·7	0·97	1·18	− 0·21	0·97	2·10	− 1·13	0·40	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	2	+0·3	0·85	0·76	+ 0·09	0·85	1·38	− 0·53	0·45	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	3	+1·4	0·93	0·54	+ 0·39	0·93	1·18	− 0·25	0·42	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	2	+0·7	0·35	0·57	− 0·22	0·35	1·25	− 0·90	0·24	Motihari.
...	...	...	...	...	...	...	...	...	...	...	2	+0·4	0·82	0·61	+ 0·21	0·89	1·34	− 0·45	0·52	Chapra.
...	...	...	...	...	...	...	...	...	...	...	2	+0·5	1·67	0·76	+ 0·91	1·67	1·58	+ 0·09	0·91	Arrah.
...	...	...	...	...	...	...	...	...	...	...	3	+1·2	0·68	0·82	− 0·14	0·69	1·65	− 0·96	0·26	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
22	Chhindwara	60·2	53·1*	82·6	...	53·8	...	68·2	...	28·8	91·5	27th	44·1	12th	25	1	2	0	0	0	0	0	1	N 18° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	73·5	69·4	93·6	...	65·4	...	79·5	...	28·2	97·6	16th	60·8	26th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	76·6	73·1	92·3	...	70·9	...	81·6	...	21·4	98·7	16th	64·5	1st	...	...	...	...	...	...	...	...	...	...	...
	Koraput	64·1	58·5	82·5	...	57·1	...	69·8	...	25·4	88·2	12th	49·3	13th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
12	Jammu	53·1	48·4	65·2	...	49·2	...	57·2	...	16·0	80·1	28th, & 29th.	37·7	6th	3	12	7	3	1	0	0	1	2	N 18° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	16·2	...	29·0	...	−4·0	...	12·5	...	33·0	50·8	29th	−25·1	12th	5	0	1	0	13	0	7	0	3	S 15° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	58·9	53·3	74·9	−0·2	53·1	−0·4	64·0	−0·3	21·8	86·7	20th	38·6	11th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	52·5	51·4	58·1	−0·3	45·7	0	51·9	−0·1	12·4	67·2	29th	37·9	13th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	42·6	+2·1	23·5	+0·1	33·1	+1·1	19·1	62·1	29th	13·0	12th	12	3	1	7	1	1	0	2	2	N 59° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	53·0	−2·3	24·7	−2·9	38·9	−2·6	28·3	72·3	27th	3·3	5th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 17 days.

C—*continued.*

and fifth class stations in India, etc., in February, 1920—*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 1919 to 29th February 1920.	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	− 0·8	0·26	0·93	− 0·67	1·46	2·63	− 1·17	0·22	Meerut.
...	...	...	...	...	...	...	...	...	...	...	3	− 0·7	1·60	2·49	− 0·89	3·49	5·65	− 2·16	0·62	Debra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	1·62	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	1	+ 0·5	0·19	0·16	+ 0·03	0·21	0·39	− 0·18	0·19	Udaipur.
																				XII.—Central Provinces.
1·9	...	...	10	...	50*	...	·287*	...	0·5	...	0	− 1·7	0	0·75	− 0·75	4·71	1·89	+ 2·82	0	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·12	− 0·12	0·56	0·51	− 0·01	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	1	− 0·5	0·23	0·92	− 0·69	9·26	6·31	+ 2·95	0·23	Tinnevelly.
...	...	...	...	...	81	...	·669	...	4·9	...	0	− 0·2	0	0·02	− 0·02	1·42	0·32	+ 1·10	0	Anantapur.
...	...	...	...	...	83	...	·767	...	0	...	0	− 0·2	0	0·17	− 0·17	3·09	0·45	+ 2·64	0	Guntur.
...	...	...	...	...	72	...	·433	...	...	...	1	...	0·30	...	...	0·69	...	...	0·30	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	1	− 1·2	0·60	1·28	− 0·68	14·88	13·27	+ 1·61	0·55	Car Nicobar.
																				Kashmir.
...	...	...	66	...	72	...	·289	...	4·7	...	6	+ 1·8	2·83	3·21	− 0·38	6·47	7·14	− 0·67	1·03	Jammu.
...	...	...	...	...	...	...	...	...	...	...	10	− 0·1	7·47	9·59	− 2·12	26·58	26·95	− 6·37	1·28	Sonamarg.
...	...	...	38	...	...	...	...	...	6·7	...	1	− 2·5	0·16*	1·38	− 1·22	2·04	4·16	− 2·12	0·10	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	2	− 1·2	0·82	1·56	− 0·74	1·84	3·39	− 1·55	0·40	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	58	+ 4	·338	−·002	...	...	1	− 1·4	0·23	1·19	− 0·96	0·23	2·18	− 1·95	0·14	Panighatta.
...	...	...	...	...	98	+21	·373	+·122	...	...	3	− 0·3	0·87	1·57	− 0·90	1·01	2·64	− 1·63	0·18	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	8	− 0·8	4·15	4·13	+ 0·02	5·16	7·27	− 2·11	1·05	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	5	− 1·0	3·49	3·03	+ 0·46	3·74	4·08	− 0·34	2·00	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	4	...	2·10	...	...	...	...	...	1·35	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	8	+ 3·3	4·62	3·25	+ 1·37	6·66	7·08	− 0·42	1·88	Mussooree.
...	...	...	21	...	...	...	...	...	5·4	+ 0·4	3	− 2·6	1·09	2·24	− 1·15	4·02	5·19	− 1·17	0·30	Poo.
...	...	...	...	...	...	...	...	...	...	...	10	+ 4·0	1·61	2·79	− 1·18	...	6·79	...	0·23	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	4·0	...	5	+ 1·2	1·11	1·87	− 0·76	4·25	5·00	− 0·75	0·9	Pishin.

* Mean of 17 days.

* Snow water.

Table

Abstract of observations taken at 8 hrs. at 61 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		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.	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.																								
	Chumbi	24·2	...	46·1	...	21·6	...	33·8	...	24·5	53·1	22nd	17·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan . . .	52·8	47·0	63·1	...	43·7	...	53·4	...	19·4	70·0	15th	36·5	7th	0	20	0	0	0	7	0	1	0	N 4° W*	...

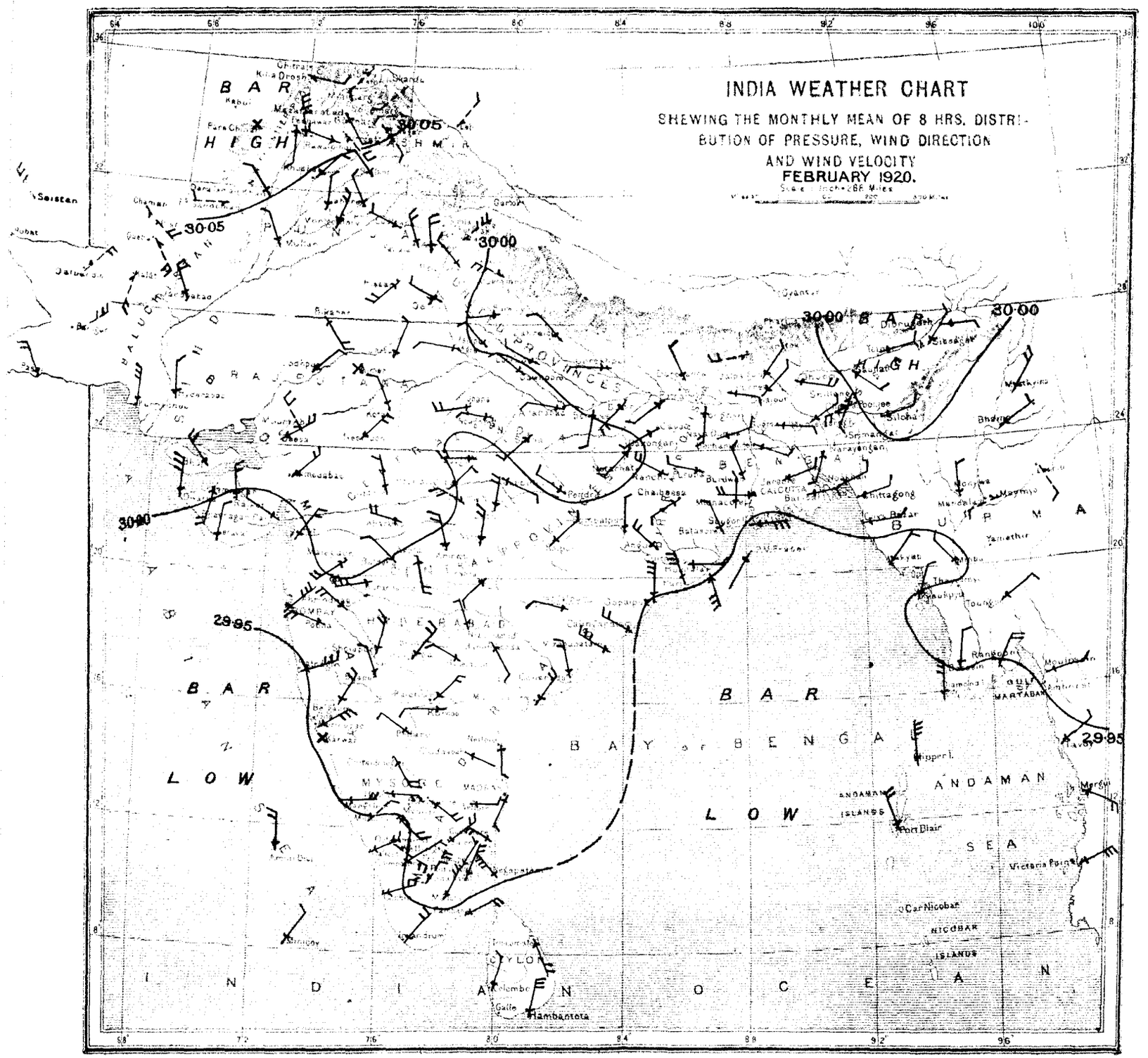
* Wind variable.

C—*concluded.*

fifth class stations in India, etc., in February, 1920—*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. 1919 to 29th Feb. 1920.	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.
...	...	...	...	...	...	...	...	...	4·5	...	6	+2·3	1·85	1·38	+0·47	...	1·86	...	0·45	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	...	−3·4	0·02	1·93	−1·91	9·87	15·52	−5·65	0·02	Pemba.
...	...	...	46	...	67	...	·243	...	...	...	5	...	2·52	...	...	5·29	...	...	1·05	Abadan.

SGPI-21-IV-5-(8)-27-11-22-325.

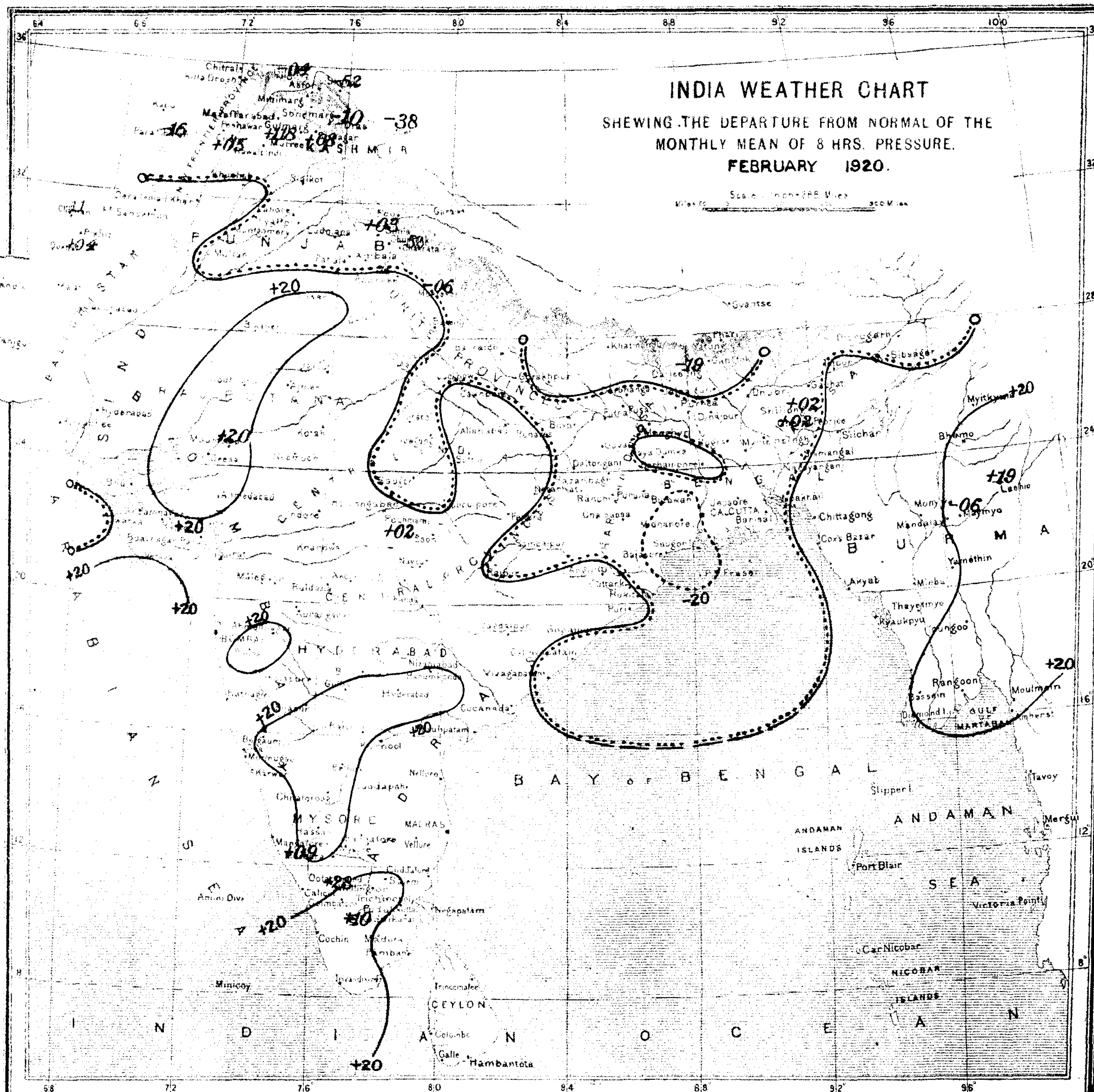


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

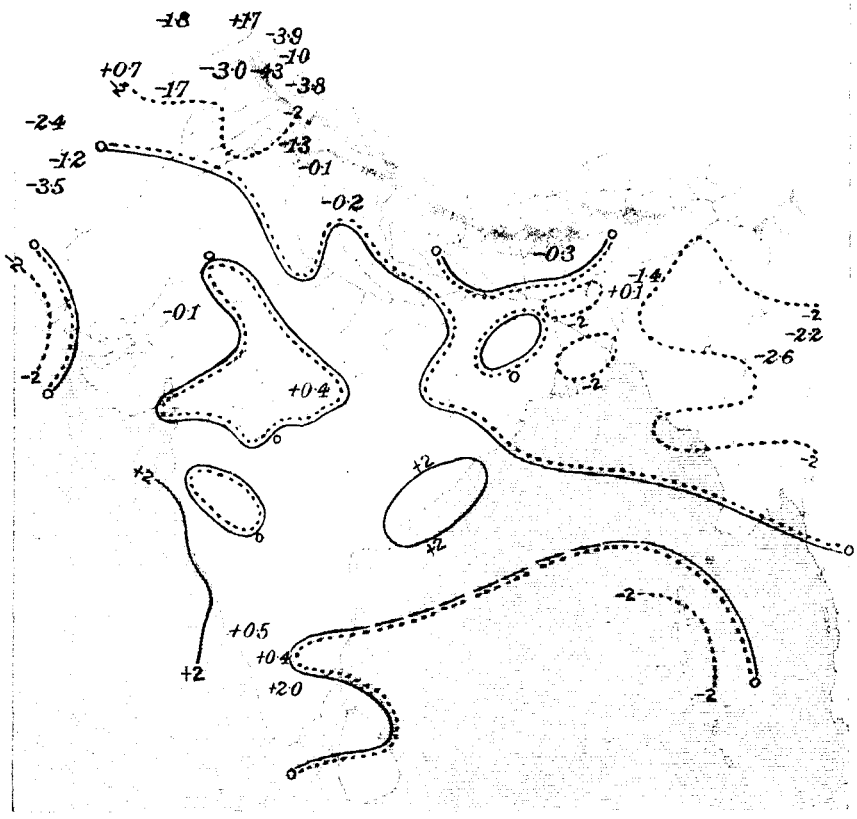


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

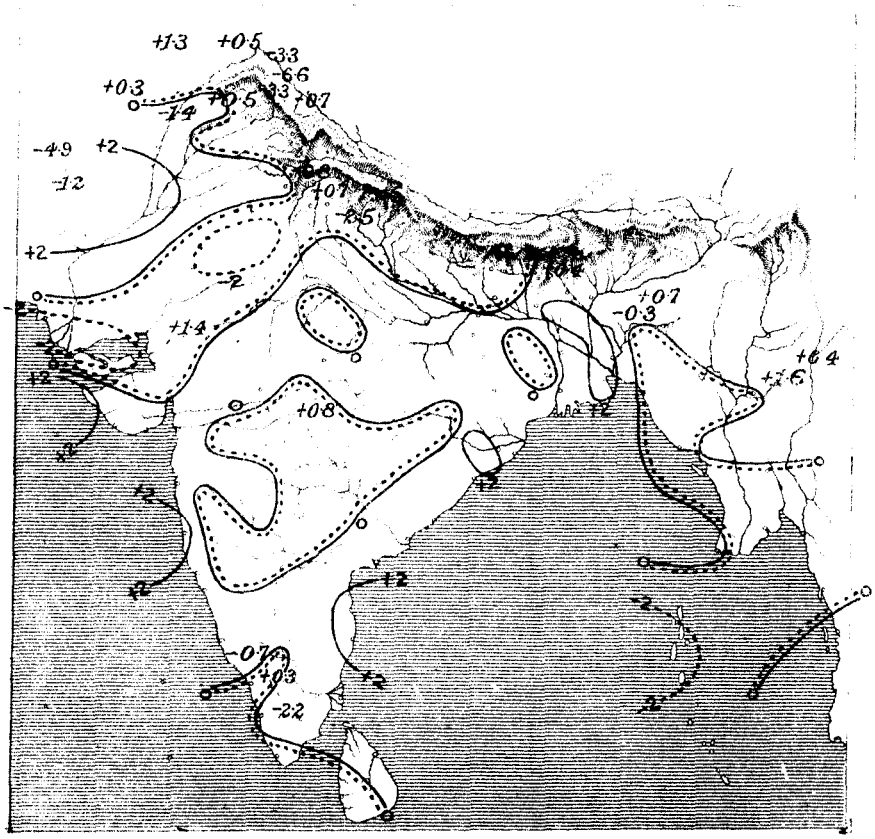


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE

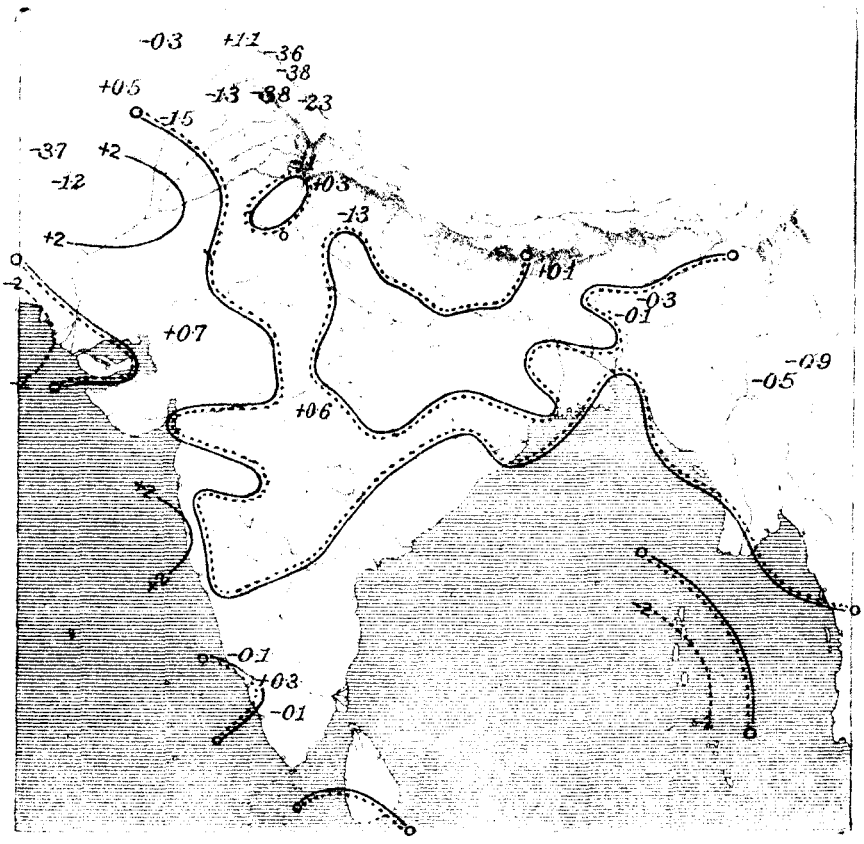


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF ABSOLUTE
HUMIDITY AT 8 HRS

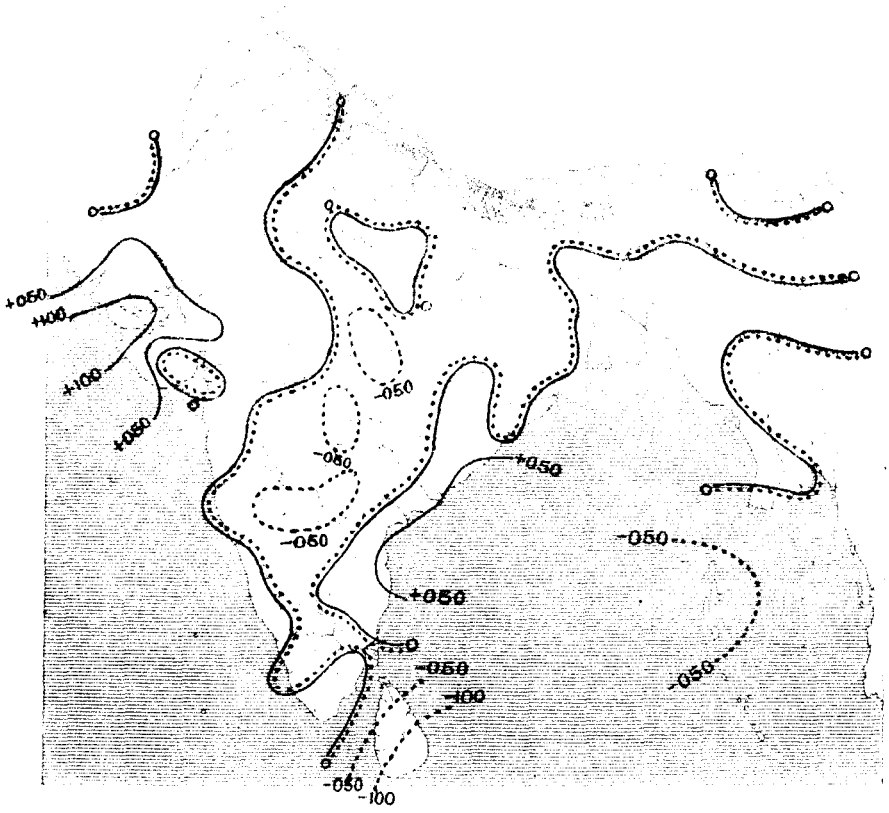


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF RELATIVE
HUMIDITY AT 8 HRS.

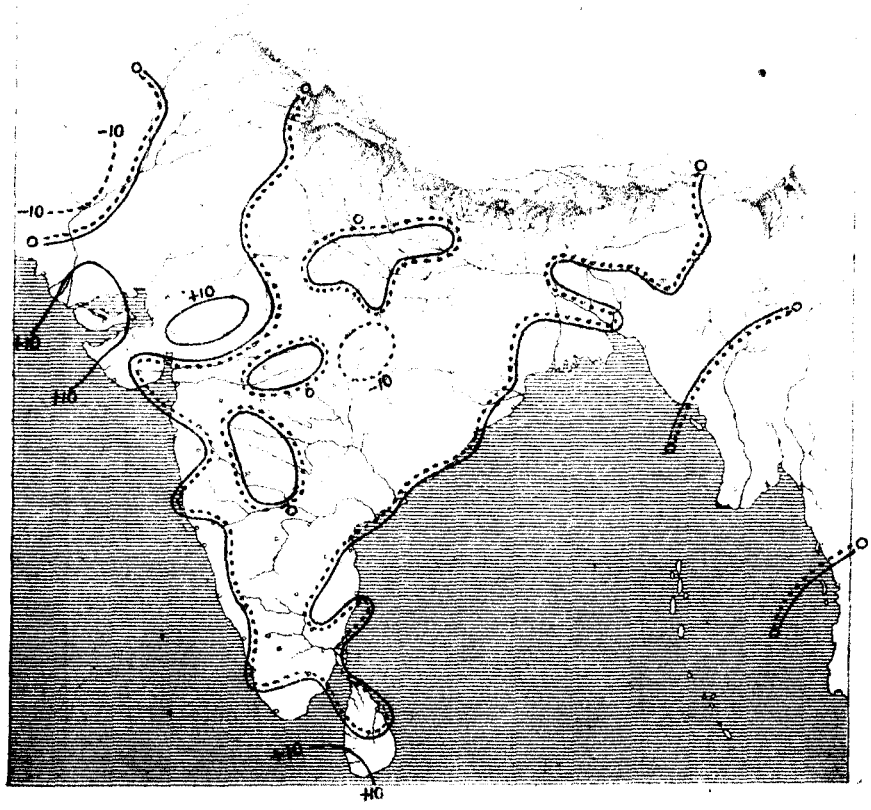


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

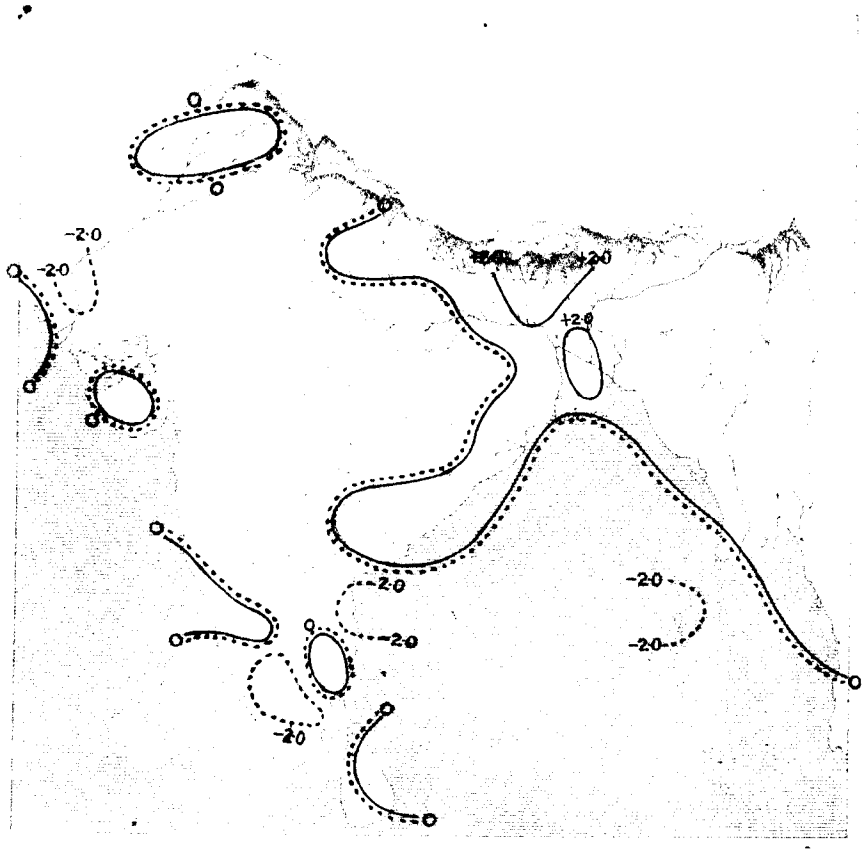
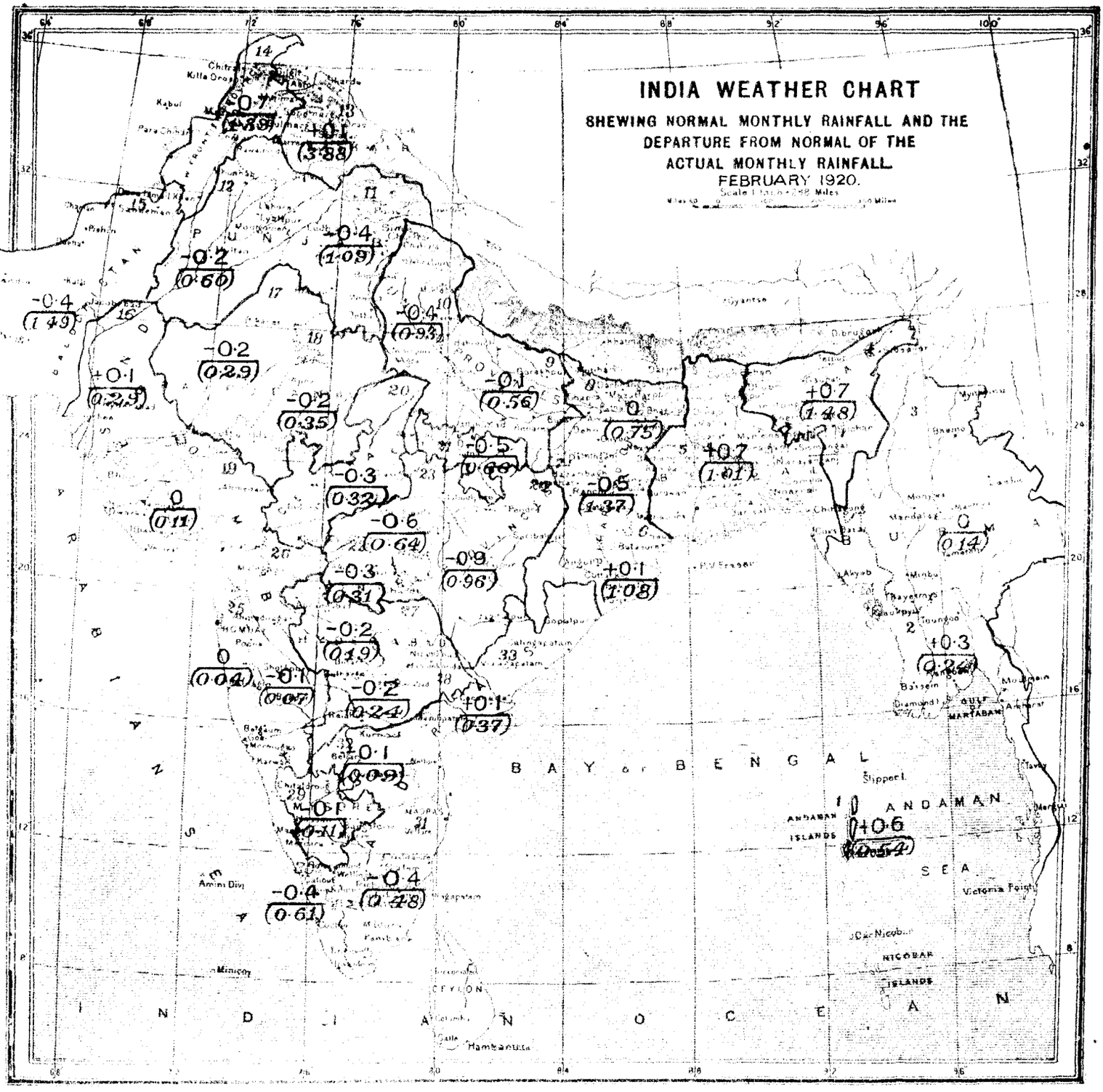


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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, MARCH, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of March, 1920, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 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.

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. Five winter disturbances entered northern India during the month, but the rainfall associated with three of these was light and mostly confined to the hills around the Punjab. The other two gave between the 9th and 20th fairly widespread rain in Baluchistan, the north Punjab and the surrounding hills with local rain in the United Provinces and east Rajputana. These disturbances, as they advanced eastwards across northern India, gave rise to an inflow of humid winds from the Bay, so that frequent thunderstorms and extraordinarily heavy rain occurred during the month in northeast India; for that area the month was indeed the wettest March on record. In the Peninsula the usual thundershowers were almost entirely absent.

The total rainfall of the month was considerably above normal in northeast India and in moderate excess in Kashmir. It was about normal in Burma, the United Provinces, the Punjab, the North-West Frontier Province and the Central Provinces. A large deficiency was recorded over the rest of the country. Rainfall was also in defect in Persia.

Cloud proportion was in large excess in Burma, northeast India, the United Provinces, south Rajputana and Madras Southeast; it was in considerable defect in Sind and most of the Deccan. Humidity, both absolute and relative, was above normal in northeast India, Gujarat, Central India and east Hyderabad.

The high temperatures that prevailed in northern India towards the end of February persisted till the 4th March. Temperature was, on the other hand, much below the average over that area on the 23rd and 24th March, and again from the 28th to the 30th; maximum temperature was from 15° to 27° below normal on the 28th in Bihar, Chota Nagpur and the greater part of Bengal. On the mean of the month temperature did not differ much from the average except in Sind, where it was in light excess.

Averaged over the plains of India barometric pressure was ·022″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

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

Sunspots.—13 new groups were recorded. The mean daily number was 2·9 and the average life of a spot was 6·9 days. The distribution in latitude was as follows :—

TABLE 1.

—	0—10°	11—20°	Mean latitude.	Extreme latitudes.
North	5	1	10°·3	6 & 17
South	4	3	10°·6	6 & 17

A large group extending over 30° in longitude crossed the central meridian on the 22nd of the month. This is its fourth apparition, and its meridian passage synchronised with a "Very Great" Magnetic storm on the 22nd and 23rd. During its passage over the visible disc, the group was very active as evidenced by the disturbances of "C" and "D" frequently observed.

Prominences.—58 prominences, a minute or more in height, and 22 metallic prominences were observed. The highest was an eruptive prominence, 240″ high, and was photographed on the 18th at the equator on the west limb.

Magnetic disturbances.—A "Very Great" storm was registered on the 22nd and 23rd. "Great" disturbances were recorded on the 14th, 15th, 24th and 25th, and "Moderate" ones from 4th to 6th, 10th to 12th, 16th to 17th, on the 21st and from 26th to 28th.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

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

Subsoil—Rock.

Apparatus.—Milne Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ε	$\frac{r}{To^2}$
AN:				
AE:	9·75	18·0	1	26
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
March 11th	eP	12 30 00	...	...	...	...	...	
	F	12 36 00	...	...	...	...	...	Widening of line.
„ 12th	eP	16 00 00	...	...	...	...	...	
	F	16 03 18	...	...	...	...	...	Widening of line.
March 15th	eP	10 21 16	...	...	...	...	...	
	F	10 23 36	...	...	...	...	...	Widening of line.
„ 15th	eP	12 42 06	...	...	...	...	...	
	F	12 49 18	...	...	...	...	...	Widenin of line.
„ 17th	eP	18 45 06	...	...	...	...	...	
	eL	18 47 36	...	...	...	...	...	
	M	18 50 12	...	...	150	...	...	
	F	19 08 36	...	...	...	...	...	
„ 19th	eP	10 10 12	...	...	...	...	...	
	F	10 12 00	...	...	...	...	...	Widening of line.
„ 20th	eP	19 54 24	...	...	...	...	...	
	eL	19 53 42	...	...	...	...	...	
	M	20 07 06	...	...	100	...	...	
	F	20 42 54	...	...	...	...	...	
„ 22nd	eP	21 02 48	...	...	...	...	...	
	F	21 14 06	...	...	...	...	...	Widening of line.
„ 30th	eP	23 42 18	...	...	...	...	...	
	F	23 44 36	...	...	...	...	...	Widening of line.
„ 31st	eP	8 39 12	...	...	...	...	...	
	F	8 41 48	...	...	...	...	...	Widening of line.

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of March, 1920, the traces showed 10 calm days, 17 days of small, 2 days of moderate, 1 day of great and 1 day of very great disturbance.

The days of the month selected as "quiet" are the 3rd, 9th, 13th, 20th and 31st.

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	S	25	S
2	C	10	S	18	C	26	S
3	C	11	S	19	S	27	S
4	S	12	S	20	C	28	S
5	M	13	C	21	S	29	C
6	S	14	S	22	V G	30	C
7	S	15	S	23	G	31	C
8	S	16	S	24	M		

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° 21′ 54″
Horizontal force	0·36893 C. G. S. unit.
Vertical force	0·17128 C. G. S. „
Inclination	24° 54′·2.
Horizontal force range	0·00072 C. G. S. unit.
Horizontal force summed range	0·00478 C. G. S. „
Declination range	2′·6.
Declination summed range	9′·2.

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

Seismic records.

$\varphi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m.

Subsoil—Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum (E.-W.).

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.
1920. March 17th	P	h. m. s. 18 43 5	...	...	...	...	...	
	M	18 58 43	...	...	30	...	...	
„ 20th	P	18 54 48	...	...	...	...	...	
	M	.....	...	...	...	...	...	Maximum cannot be determined as the movements are very small.

T. K. CHINMAYANANDAM,
Director,
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\varphi = 22° 32'$ 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	30	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ)			Distance Δ (Km.).	Remarks.
				An.	Ae.	Az.		
1920.		h. m. s.						
March 17th	P	18 41 06	3	...	...	...	...	
	S	18 45 06	5	...	...	...	...	
	L	?	?	...	...	..	...	
	F	19 34 06	...	...	...	...	...	
„ 22nd	eP	10 57 18	?	...	...	...	...	
	L	10 59 42	5	...	...	...	...	
	F	11 18 18	...	...	...	...	...	
1920. March 11th	P	h. m. s. 12 35 18	...	...	..	...	...	
	F	12 51 48	...	...	...	...	...	Slight tremors.
„ 16th	P	1 12 54	...	...	...	...	...	
	M	1 13 12	...	36	...	...	...	
	F	1 14 12	...	...	...	...	...	Tremors.
„ 20th	eP	19 00 48	...	...	...	...	...	
	L	19 19 00	30	...	...	...	...	
	M	19 57 54	...	150	...	...	...	
	F	20 46 18	...	...	...	..	...	
„ 23rd	P	16 41 06	...	...	...	...	...	
	F	16 44 00	...	...	...	...	...	Slight tremors.
„ 30th	P	16 00 24	...	..	...	...	...	
	M	16 00 36	...	57	...	...	...	
	F	16 02 48	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

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

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

TABLE 6.

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

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.
	1920.	h. m.	Sec.			
Drosh . . .	Mar. 4th	12 24	5	8	3	
„ . . .	„ 17th	4 50	3	5	2	
Meshed (Persia) .	„ 22nd	0 45	35	6	1	
Drosh . .	„ 25th	15 30	3	6	2	

S. SITARAMAYYA,
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 station:—

TABLE 8.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	+ ·033	+ ·001	—·003
Actual mean wind direction . . .	S 82° E	N 8° E	N 1° E
Normal mean wind direction . .	S 76° E	S 27° E	N 17° W
Actual mean wind velocity (miles per diem).	178	113	88
Normal mean wind velocity (miles per diem).	178	94	86
Rainfall departure from normal in inches.	—0·23	—5·81	—1·74

Depressions and cyclonic storms.

8. Five disturbances of the winter type passed into northwest India during the month. The rainfall due to the first two (1st to 5th and 6th to 9th) was mostly light and confined to the hills round the Punjab. The third disturbance was much more active; it gave rain in Baluchistan from the 9th to the 11th, and the area of rainfall, beginning to advance eastwards on the 12th, extended on the 14th from the North-West Frontier Province to Assam. The fourth disturbance gave between the 16th and 20th fairly widespread rain in Baluchistan, and the north Punjab and surrounding hills, and local rain in east Rajputana. The fifth was a feeble disturbance, and the rainfall due to it occurred mainly in Kashmir and the Simla-Kumaon hills between the 24th and the 27th.

These disturbances on passing eastwards stimulated the inflow of humid winds from the Bay and caused heavy rain in northeast India. Of the local storms there the following are worth recording. A very severe hailstorm occurred at Dikom in northeast Assam at 15.15 hrs. on the 1st and lasted for 20 minutes; the hailstones were reported to have been as large as duck's eggs. On the night of the 2nd severe thunderstorms occurred in east Bengal; the river mail steamer *Afghan* had her roof blown away and was stranded in the neighbourhood of Goalundo, while at Feni several houses were blown down.

Pressure.

9. The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·007
Assam	+·009
Bengal	0
Bihar and Orissa	—·014
United Provinces	—·028
Punjab	—·040
North-West Frontier Province	—·051
Sind	—·058
Rajputana	—·047
Bombay	—·028
Central India	—·042
Central Provinces	—·029
Hyderabad	—·014
Mysore	—·011
Madras	—·013

The following table gives a comparison of the departure from normal of mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains ;—

TABLE 10.

HILL STATION.	Departure from normal pressure A.	PLAIN STATION.	Departure from normal pressure B.	Departure of pressure difference B—A.
	"		"	"
Quetta	—·025	Jacobabad	—·056	—·031
Leh	—·053	Lahore	—·048	+·005
Murree	—·042	Peshawar	—·061	—·019
Simla	—·014	Ludhiana	—·041	—·027
Mukteswar	—·014	Bareilly	—·019	—·005
Darjiling	—·021	Dhubri	+·009	+·030
Mount Abu	—·027	Deesa	—·036	—·009
Pachmarhi	—·042	Khandwa	—·032	+·010
Kodaikanal	—·015	Madura	—·007	+·008

Temperature.

10. Table 11 gives the actual temperature and its departure from normal in 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	88·1	77·7	82·9	10·3	— 0·7	+ 1·4	— 2·1
2. Lower Burma	92·2	72·4	82·3	19·8	+ 0·5	+ 0·7	— 0·2
3. Upper Burma	92·4	65·7	79·0	26·7	— 0·3	+ 1·4	— 1·7
4. Assam	79·1	62·6	70·9	16·5	— 4·5	+ 1·7	— 6·2
5. Bengal	86·3	67·8	77·1	18·6	— 3·3	+ 0·8	— 4·1
6. Orissa	92·7	72·3	82·5	20·5	— 0·5	+ 1·9	— 2·4
7. Chota Nagpur	90·8	64·7	77·7	26·1	— 0·9	+ 1·1	— 2·0
8. Bihar	87·2	63·6	75·4	23·6	— 2·8	+ 0·6	— 3·4
9. United Provinces, East	89·2	61·9	75·5	27·3	— 1·4	+ 1·0	— 2·4
10. Do. do., West	88·4	61·0	74·7	27·4	— 0·5	+ 0·7	— 1·2
11. Punjab, East and North	80·9	55·2	68·1	25·6	— 1·9	— 0·7	— 1·2
12. Do., South-west	81·9	54·7	68·3	27·3	— 1·5	— 0·3	— 1·2
13. Kashmir	45·8	28·0	36·9	17·8	— 3·3	0	— 3·3
. North-West Frontier Province	77·1	51·9	64·5	25·1	— 1·5	— 1·5	0
15. Baluchistan	72·4	45·9	59·1	26·6	+ 2·0	— 0·1	+ 2·1
16. Sind	90·2	65·9	78·0	24·3	+ 1·8	+ 2·5	— 0·7
17. Rajputana, West	91·6	62·1	76·9	29·5	+ 2·0	+ 0·7	+ 1·3
18. Do., East	90·5	62·8	76·6	27·7	+ 0·1	+ 0·5	— 0·4
19. Gujarat	93·1	67·3	80·2	25·8	+ 1·4	+ 1·8	— 0·4
20. Central India, West	92·4	62·2	77·3	30·2	+ 0·7	+ 1·4	— 0·7
21. Do. do., East	91·1	62·5	76·9	28·7	— 0·1	+ 1·5	— 1·6
22. Berar	99·3	67·5	83·3	31·9	+ 0·9	0	+ 0·9
23. Central Provinces, West	94·3	64·3	79·3	29·9	— 0·3	+ 0·2	— 0·5
24. Do. do., East	94·6	66·8	80·7	27·8	+ 0·5	+ 1·0	— 0·5
25. Konkan	87·8	73·9	80·9	13·9	+ 0·9	+ 0·7	+ 0·2
26. Bombay Deccan	98·0	64·9	81·4	33·1	+ 1·3	— 0·5	+ 1·8
27. Hyderabad, North	99·9	67·9	83·9	32·0	+ 2·7	+ 0·9	+ 1·8
28. Do., South	99·4	72·7	86·1	26·7	+ 1·3	+ 1·0	+ 0·3
29. Mysore	93·9	67·7	80·8	26·3	+ 1·3	+ 1·6	— 0·3
30. Malabar	90·2	77·5	83·9	12·7	+ 0·8	+ 1·6	— 0·8
31. Madras, South-east	93·7	74·5	84·1	19·2	+ 0·1	+ 2·0	— 1·9
32. Do., Deccan	101·4	75·1	88·3	26·4	+ 0·2	+ 1·5	— 1·3
33. Do., Coast, North	90·2	75·3	83·1	15·8	+ 0·2	+ 1·9	— 1·7

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—Wind directions were more southerly than usual at the head of the Bay. In the Gangetic plain the westerly component was much weaker than usual and was replaced by an easterly component at several stations; winds were more from the east also in the east and north Punjab.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

Division.	Hourly wind velocity in miles.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	3·4	+0·2	38	−11
Assam	3·2	+0·2	47	+ 9
Bengal	3·3	+0·1	33	− 3
Bihar and Orissa	4·2	+0·7	41	+ 5
United Provinces	2·5	−0·1	17	−17
Punjab	3·0	+0·5	25	+ 1
North-West Frontier Province	1·4	−0·7	13	−16
Sind	4·1	−1·7	33	+ 8
Rajputana	3·9	+0·2	33	+12
Bombay	5·0	−0·7	48	+ 4
Central India	3·0	−0·5	23	−16
Central Provinces	3·9	+0·8	25	+ 1
Hyderabad	4·5	−0·2	28	+ 8
Mysore	3·8	−0·3	41	+ 4
Madras	4·7	+0·4	52	+ 5

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab, Calcutta and Bombay during the month are given in the following table :—

TABLE 14.

Height above sea, kms.	Agra.				Simla.				Lahore.				Bangalore.				Akyab.				Calcutta.				Bombay.			
	Height above sea = 0·17 km.				Height above sea = 2·13 kms.				Height above sea = 0·21 km.				Height above sea = 0·92 km.				Height above sea = 0·01 km.				Height above sea = 0·01 km.				Height above sea = 0·01 km.			
	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L
Ground level	39	3·3	1·3	97	30	2·7	0·8	118	30	0·5	0·3	23	27	3·2	0·9	129	30	0·9	0·2	353	27	3·9	2·1	202	31	2·5	1·2	342
0·5	42	7·2	2·8	73	...	...	...	...	30	5·5	3·9	7	...	...	...	...	30	4·9	2·4	343	24	5·5	3·1	231	30	5·0	2·7	354
1·0	39	6·5	1·1	311	...	...	...	...	30	5·2	1·8	336	28	3·5	1·5	170	30	5·8	4·2	307	24	6·8	5·0	247	30	5·8	3·0	339
1·5	38	6·9	4·4	283	...	...	...	...	29	5·9	1·8	304	28	5·3	3·1	115	29	6·6	5·1	295	21	8·0	6·7	262	28	6·0	3·6	277
2·0	38	8·8	7·4	283	...	...	...	...	29	6·7	3·3	287	27	6·3	5·7	79	28	7·4	5·5	284	18	9·0	8·0	271	28	6·2	4·4	318
2·5	35	10·9	9·3	285	29	6·1	1·2	190	28	8·0	5·4	289	27	7·2	6·7	61	25	7·9	5·7	284	9	10·5	8·9	277	27	6·1	4·0	235
3·0	33	12·3	10·8	283	30	5·7	2·4	245	28	9·3	7·1	285	27	7·2	6·5	53	25	8·8	6·9	283	5	12·9	11·8	291	27	6·2	4·3	234
3·5	28	13·3	11·8	279	30	7·3	3·6	268	28	11·2	8·8	282	27	6·4	5·1	74	25	9·6	8·3	277	1	10·5	10·5	310	25	6·0	4·4	243
4·0	28	15·6	13·8	281	27	9·8	5·9	272	24	12·8	10·6	283	26	5·6	4·1	91	25	10·7	9·7	267	...	...	...	...	24	6·1	4·5	277
4·5	23	16·7	14·8	282	21	10·1	8·2	285	24	14·9	11·9	283	26	5·4	3·8	91	25	12·0	11·0	266	...	...	...	...	24	7·4	5·7	291
5·0	20	18·4	16·9	283	17	11·8	10·4	293	23	16·7	14·1	287	24	5·0	3·3	85	25	13·4	12·2	265	...	...	...	...	24	8·9	7·1	295
5·5	17	20·9	19·5	285	15	15·5	13·9	292	20	19·3	16·6	289	24	5·9	3·3	76	11	12·5	11·9	266	...	...	...	...	22	10·6	8·7	296
6·0	15	21·5	20·0	285	13	18·9	17·0	289	16	21·7	18·3	289	23	6·2	3·7	68	11	13·4	12·7	268	...	...	...	...	22	12·6	9·9	299
6·5	11	22·5	21·0	292	12	20·3	18·0	282	14	23·7	19·9	290	23	7·4	3·0	54	5	13·4	12·8	272	...	...	...	...	20	14·3	11·2	300
7·0	9	26·4	25·5	292	10	20·7	19·5	286	13	24·6	22·2	282	23	7·4	2·2	12	5	15·7	15·1	266	...	...	...	...	18	15·2	12·1	297
7·5	7	28·6	28·0	282	9	23·6	22·0	290	11	27·2	25·1	287	22	8·4	2·7	357	2	13·7	13·7	257	...	...	...	...	16	14·8	12·1	295
8·0	4	29·4	29·1	284	9	28·1	25·8	293	6	28·6	28·6	300	22	8·9	2·7	327	2	15·5	15·3	261	...	...	...	...	13	14·8	12·7	301
8·5	2	34·0	34·0	282	7	29·7	27·1	299	4	28·7	28·7	295	21	8·9	3·8	309	..	...	...	...	...	...	...	...	10	14·6	13·9	297
9·0	1	38·0	38·0	280	5	31·7	30·0	305	3	34·0	34·0	300	17	7·9	3·6	278	...	...	...	...	...	...	...	...	9	16·3	14·3	294
9·5	...	...	...	...	3	39·2	36·9	309	..	...	...	...	16	8·2	5·1	266	...	...	...	...	...	...	...	...	5	16·1	12·9	303
10·0	...	...	...	...	...	...	...	...	...	...	...	...	14	7·9	5·7	263	...	...	...	...	...	...	...	...	4	16·0	13·6	298
10·5	...	...	...	...	...	...	...	...	...	...	...	...	12	9·6	6·4	246	..	...	...	...	...	...	...	...	2	15·0	14·5	304
11·0	...	...	...	...	...	...	...	...	...	...	...	...	7	9·2	8·6	259	...	...	...	...	...	...	...	...	2	15·5	14·1	299
11·5	...	...	...	...	...	...	...	...	...	...	...	...	5	8·2	7·7	275	...	..	...	...	...	...	..	...	...	...	...	...
12·0	...	...	...	...	...	...	...	...	...	...	...	...	4	6·9	4·6	295	..	...	...	...	...	...	...	...	...	...	...	...
12·5	...	...	...	...	..	...	...	...	...	...	...	...	3	6·8	4·6	251	...	...	...	...	...	...	...	...	...	...	...	...
13·0	...	...	...	...	...	...	...	...	...	...	...	...	2	9·7	4·5	250	...	...	...	...	...	...	...	...	...	...	...	...
13·5	...	...	...	...	...	...	...	...	...	...	...	...	2	12·7	4·1	254	...	...	...	...	...	...	...	...	...	...	...	...
14·0	...	...	...	..	...	...	...	...	...	...	...	...	1	18·5	18·5	225	...	...	...	...	...	...	...	...	...	...	...	...

n = Number of flights.
V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of RESULTANT WIND, taking account of direction, metre per sec.
L = Direction of " " North wind = 0° or 360°, East wind = 90°.

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 15.

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	74	—1	·661	+·003	3·4	+1·1
Assam	87	+5	·574	+·033	6·0	+2·6
Bengal	83	+6	·673	+·035	4·5	+1·6
Bihar and Orissa	70	+9	·566	+·072	3·9	+1·7
United Provinces	54	+1	·386	+·012	3·2	+1·6
Punjab	62	+1	·342	—·007	3·1	—0·1
North-West Frontier Province.	67	—1	·313	+·005	3·5	—0·5
Sind	52	—2	·422	+·017	1·5	—0·8
Rajputana	39	—1	·283	—·012	2·9	+0·6
Bombay	61	+4	·542	+·039	1·6	0
Central India	48	+6	·392	+·070	2·6	+0·6
Central Provinces	41	—2	·363	—·004	1·7	+0·2
Hyderabad	51	+1	·525	+·040	1·0	—0·1
Mysore	62	0	·536	+·005	2·2	+0·5
Madras	74	+1	·784	+·029	2·8	+0·4

Rainfall.

13. Rainfall was very heavy in northeast India and was above normal by 2·87″ or 169 per cent. This is the largest excess on record in March; large excesses were, previous to this, recorded in 1887 (1·45″ or 92 per cent.), 1905 (2·07″ or 125 per cent.) and 1907 (1·27″ or 77 per cent.). On the other hand rainfall was in large defect over the greater part of the Peninsula, and in Central India, Gujarat, Rajputana and Sind.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	0	0·7	0·06	0·43	—0·37	— 86
2. Lower Burma	1·1	0·8	0·72	0·62	+0·10	+ 16
3. Upper Burma	1·2	0·9	0·38	0·41	—0·03	— 7
4. Assam	13·4	6·2	8·78	3·83	+4·95	+129
5. Bengal	6·3	2·6	5·39	1·72	+3·67	+213
6. Orissa	0·4	1·9	2·82	1·03	+1·79	+174
7. Chota Nagpur	5·1	1·9	2·54	0·94	+1·60	+170
8. Bihar	2·7	1·2	1·39	0·56	+0·83	+148
9. United Provinces, East	1·3	0·8	0·44	0·34	+0·10	+ 29
10. Do. do., West	1·6	1·3	0·57	0·63	—0·06	— 10
11. Punjab, East and North	2·2	1·9	0·99	0·94	+0·05	+ 5
12. Do., South-west	1·4	1·6	0·48	0·63	—0·15	— 24
13. Kashmir	8·1	6·1	7·07	4·27	+2·80	+ 66

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
14. North-West Frontier Province	3·7	3·9	2·20	2·05	+0·15	+ 7
15. Baluchistan	1·8	3·3	0·69	1·41	—0·72	— 51
16. Sind	0	0·5	0·01	0·26	—0·25	— 96
17. Rajputana, West	0·1	0·6	0·04	0·23	—0·19	— 83
18. Do., East	0·3	0·7	0·15	0·27	—0·12	— 44
19. Gujarat	0	0·2	0	0·08	—0·08	—100
20. Central India, West	0·1	0·5	0·02	0·21	—0·19	— 90
21. Do., East	0·6	0·9	0·19	0·37	—0·18	— 49
22. Berar	0·2	0·8	0·06	0·35	—0·29	— 83
23. Central Provinces, West	1·1	1·2	0·64	0·56	+0·08	+ 14
24. Do., East	1·4	1·2	0·70	0·57	+0·13	+ 23
25. Konkan	0	0·1	0	0·06	—0·06	—100
26. Bombay Deccan	0	0·4	0	0·15	—0·15	—100
27. Hyderabad, North	0	0·7	0·01	0·37	—0·36	— 97
28. Do., South	0·1	0·6	0·02	0·40	—0·38	— 95
29. Mysore	0·1	0·6	0·06	0·31	—0·25	— 81
30. Malabar	1·9	2·0	1·08	1·24	—0·16	— 13
31. Madras, South-east	0·2	0·8	0·13	0·49	—0·36	— 73
32. Do., Deccan	0	0·3	0·02	0·21	—0·19	— 90
33. Do., Coast, North	0·5	0·8	0·29	0·51	—0·22	— 43

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·51	0·49	+0·02	+ 4
Assam	8·78	3·83	+4·95	+129
Bengal	5·39	1·72	+3·67	+213
Bihar and Orissa	2·00	0·76	+1·24	+163
United Provinces	0·51	0·50	+0·01	+ 2
Punjab	0·87	0·86	+0·01	+ 1
North-West Frontier Province	2·20	2·05	+0·15	+ 7
Sind	0·01	0·26	—0·25	—96
Rajputana	0·11	0·26	—0·15	—58
Bombay	0	0·11	—0·11	—100
Central India	0·09	0·27	—0·18	—67
Central Provinces	0·52	0·51	+0·01	+ 2
Hyderabad	0·01	0·38	—0·37	—97
Mysore	0·06	0·31	—0·25	—81
Madras	0·36	0·63	—0·27	—43
Mean of India	1·05	0·68	+0·37	+54

Snowfall.

I.—PERSIA.

14. *Meshed.*—1½ inches of snow fell. The total fall of the winter season was considered to be a little above the average.

II.—NORTH-WEST FRONTIER PROVINCE.

Kohat (Samana Range).—1¾ feet of snow fell on the 1st.

III.—KASHMIR.

(*a*) *Srinagar.*—There were three falls during the month; the falls which occurred on the 9th and 15th were heavy.

(*b*) *Skardu.*—Snow fell on 13 days, the total depth being over 5 feet on the mountains. The falls at the station were either light or mixed with rain. At the end of the month there were about 9 feet of snow on the higher mountains and 4 or 5 feet on the lower mountains; there was no snow lying at the level of the station. The falls were heavier than usual in the second half of the month.

(*c*) *Dras.*—Snow fell on 18 days, the total fall being about 8½ feet.

(*d*) *Kargil.*—Snow fell on 13 days over 3 feet on the whole at the station and about 7 feet on the mountains.

IV.—THE PUNJAB.

Kilba (Simla hills).—Snow fell on 3 days, but it was generally accompanied by rain. The accumulations at the end of the month were:—

Chitkul	15 feet.
Rupan	12 „
Brua	12 „
Harang	8 „

All passes remained closed.

V.—UNITED PROVINCES.

(*a*) *Garhwal.*—A foot of snow fell on the higher northern hills.

(*b*) *Almora.*—Reports from Patwaris were as follows:—

Actual falls.

TABLE 18.

Locality.	Depth.	Descent below perpetual snow line.
Malla Danpur	6 feet	3 or 4 miles.
Malla Johar	3 „	
Malla Darma	6½ „	5 miles.
Byans	14 „	9 or 10 miles.
Chandas	11½ „	

Accumulations.

TABLE 19.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
Nuwe pass	17 feet	31 feet
Lampia „	16 or 17 „	18½ „
Lipulekh pass	11 or 12 „	18¾ „
Binkaru „	11 or 12 „	20 „
Pindari peak	6 „	5½ „
Kaphini „	6 „	5½ „
Kuntela „	6 „	5½ „
Milamdhura peak	6¼ „	7½ „
Bagdwar „	6¼ „	...

In Danpur there was a heavy fall of snow on all the high peaks about the end of the month.

VI.—THE EASTERN HIMALAYAS.

Yatung.—18 inches of snow fell.

North Lakhimpur.—It is said that the winter snowfall was far heavier than usual; the paths were blocked for 2 or 3 days on this account.

Balipara Frontier Tract.—There was an almost record fall during the month.

Sadiya Frontier Tract.—The snowfall at the end of February and the beginning of March was the heaviest for many years; it came down to 6,000 feet.

Summary.

15. Snowfall was roughly normal or in excess except in the Punjab Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in March, 1920.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 13

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·914	29·786	·128	29·844	—·012	29·812	88·8	71·7	17·1	95·6	60·6	35·0	81·3	86·6	79·3	0	67·8	73·4	73·3	71·3
	VI.—Punjab.																					
11	Lahore . . .	702	29·179	29·084	·095	29·126	—·041	29·809	80·5	54·6	25·9	90·1	48·5	41·6	70·8	79·3	66·9	—2·1	52·0	61·2	64·1	59·1
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·482	28·367	·115	28·416	—·067	29·785	89·6	61·4	28·2	101·0	52·1	48·9	79·8	88·2	75·1	+ 0·2	53·1	59·4	61·1	57·9
	X.—Bombay.																					
25	Bombay . .	37	29·921	29·804	·117	29·859	—·018	29·836	87·2	74·4	12·9	91·5	71·3	20·2	80·9	83·7	79·3	+ 1·3	67·9	73·4	74·2	71·8
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·995	26·863	·132	26·929	—·003	29·714	92·9	65·9	27·0	96·8	57·6	39·2	82·3	90·7	78·4	+ 1·7	60·7	66·0	65·5	64·1
	XV.—Madras.																					
30	Trivandrum .	198	29·752	29·628	·124	29·694	—·007	29·819	88·8	77·5	11·3	91·1	72·8	18·3	84·8	87·5	81·6	+1·3		75·9	77·9	
31	Pudukkottai . .	318	29·667	29·508	·159	29·587		29·831	96·4	75·1	21·3	98·5	70·6	27·9	86·0	93·8	85·7			75·0	74·9	
	Madras . . .	22	29·947	29·827	·120	29·887	—·018	29·840	89·9	73·7	16·2	93·1	69·7	22·4	86·6	86·6	80·2	+ 0·7	72·4	76·4	76·6	75·1
	Kashmir.																					
13	Srinagar . .	5,204	24·911	24·830	·081	24·871	—·033	24·841	51·6	37·0	14·6	62·1	32·2	29·8	43·9	49·4	44·3	— 0·8	36·3	41·9	45·0	43·7
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·666	25·614	·052	25·637	+·026	25·591	74·7	46·9	27·8	88·2	40·9	42·3	64·5	70·8	61·1	+ 0·3	43·6	54·9	56·3	51·6
	Kodaikanal . .	7,689	22·877	22·815	·062	22·846		22·781	72·9	49·8	23·1	75·3	44·2	31·1	68·4	64·9	61·4		42·0	51·6	54·2	49·1
	Extra India.																					
	Seychelles . .	15	29·943	29·852	·091	29·902	+·038*	29·840	85·7	78·9	6·8	88·1	76·3	11·8	82·9	83·9	81·3	+ 2·4*	73·5	77·5	77·8	76·1
	Mauritius . .	181				29·800	+·032	29·866	83·5	71·6	11·9	86·4	64·9	21·5			77·2	— 0·3				

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.

A.

stations in India, etc., in March 1920.

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.	
·633	·723	·644	·707	+·064	81	68	52	72	+ 5	3·6	3·6	3·6	+1·4	0	1	4	6	4	19	14	11	3	S 24° W	S 60° W	45	44	109	86	6·27	2·09	Calcutta.	5
																															VI.—Punjab.	
·356	·416	·396	·400	+·040	83	56	41	62	+ 8	3·7	4·7	4·2	+0·7	13	3	7	6	7	0	1	5	20	N 14° W	N 12° W	27	31	37	51	0·64	0·55	Lahore.	11
																															IX.—Rajputana.	
·305	·259	·204	·260	−·045	56	26	15	35	− 4	4·0	5·1	4·5	+1·4	2	2	6	6	7	9	13	12	5	S 34° W	N 46° W	27	30	83	79	0·63	0·52	Jaipur.	18
																															X.—Bombay.	
·597	·724	·722	·709	−·028	70	69	63	71	− 4	1·5	0·4	0·9	−0·4	0	4	3	7	3	1	3	14	27	N 52° W	N 36° W	50	46	141	191	0	0	Bombay.	25
																															XIV.—Mysore.	
·472	451	·332	·427	−·020	74	42	23	48	− 2	1·8	3·5	2·7	...	4	0	8	19	11	6	8	6	0	S 56° E	S 36° E	40	46	126	86	0·18	0·17	Bangalore.	29
																															XV.—Madras.	
	·778	·827			...	65	64	...		6·3	6·5	6·4	+3·4	8	3	12	0	1	1	25	7	5	S 77° W	N 87° W	32	50	75	96	1·39	0·97	Trivandrum.	30
	·720	·611			...	57	39	...		4·3	3·1	3·7		15	0	13	15	9	10	0	0	0	S 68° E		53	...	74	...	0	0	Pudukkottai.	31
·781	·769	·780	·801	−·001	94	61	62	76	− 2	3·6	1·6	2·6	+0·4	1	0	0	5	32	17	7	0	0	S 27° E	S 44° E	82	81	69	109	0	0	Madras.	
																															Kashmir.	
·206	·246	·253	·235	−·020	94	86	72	84	+ 3	8·0	8·0	8·0	+2·3	10	6	6	0	5	0	3	5	27	N 38° W	N 24° W	48	16	49	84	7·54	2·76	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·245	·314	·287	·280	−·021	77	52	39	55	− 6	4·1	5·7	4·9	+1·6	0	0	0	31	0	2	0	29	0	S 45° E	N 82° W	5	47	14	23	1·16	0·33	Katmandu.	
·189	·211	·312	·237		53	31	52	45		2·4	5·2	3·8		0	15	18	12	13	3	0	0	1	N 64° E		60	...	220	...	0·10	0·08	Kodaikanal.	
																															Extra India.	
·754	·874	·871	·860	−·001	76	78	75	80	− 3	5·5	6·7	6·1	−0·6*	4	11	11	5	6	1	2	0	22	N 1° E	N 17° W	43	39	88	86	8·17	3·13	Seychelles.	
...	...	...	·744	−·021	...	...	...	79	− 2	...	...	6·1	+0·1	...	...	...	...	...	...	...	...	...	S 82° E	S 76° E	...	...	90	130	8·98	3·33	Mauritius.	

* Departure from ol normal.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in March, 1920.

(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 2,500 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	+·007	92·3	+0·1	69·6	+1·0	80·9	+0·6	22·7	+0·2	−11	74	− 1	·661	+·003	3·4	+1·1	0·51	0·49	+0·02
Assam	+·009	79·1	−4·5	62·6	+1·7	70·9	−1·4	16·5	+0·2	+ 9	87	+ 5	·574	+·033	6·0	+2·6	8·78	3·83	+4·95
Bengal	0	86·3	−3·3	67·8	+0·8	77·1	−1·3	18·6	+0·1	− 3	83	+ 6	·673	+·035	4·5	+1·6	5·39	1·72	+3·67
Bihar and Orissa	−·014	89·7	−1·6	66·4	+1·2	78·1	−0·2	23·3	+0·7	+ 5	70	+ 9	·566	+·072	3·9	+1·7	2·00	0·76	+1·24
United Provinces of Agra and Oudh	−·023	8·88	−1·0	61·5	+0·9	75·2	0	27·4	−0·1	−17	54	+ 1	·386	+·012	3·2	+1·6	0·51	0·50	+0·01
Punjab	−·040	81·3	−1·8	55·0	−0·6	68·1	−1·2	26·2	+0·5	+ 1	62	+ 1	·343	−·007	3·1	−0·1	0·87	0·86	+0·01
North-West Frontier Province	−·051	77·1	−1·5	51·9	−1·5	64·5	−1·5	25·1	−0·7	−16	67	− 1	·313	+·005	3.5	−0·5	2·20	2·05	+0·15
Sind	−·058	90·2	+1·8	65·9	+2·5	78·0	+2·2	24·3	−1·7	+ 3	52	− 2	·422	+·017	1·5	−0·8	0·01	0·26	−0·25
Rajputana	−·047	90·9	+0·6	62·5	+0·5	76·7	+0·5	28·4	+0·2	+12	39	− 1	·283	−·012	2·9	+0·6	0·11	0·26	−0·15
Bombay	−·028	93·5	+1·2	67·9	+0·8	80·7	+1·0	25·6	−0·7	+ 4	61	+ 4	·542	+·039	1·6	0	0	0·11	−0·11
Central India	−·042	91·8	+0·3	62·3	+1·5	77·1	+0·9	29·5	−0·5	−16	48	+ 6	·392	+·070	2·6	+0·6	0·09	0·27	−0·18
Central Provinces	−·029	95·2	+0·1	65·7	+0·4	80·4	+0·3	29·5	+0·8	+ 1	41	− 2	·363	−·004	1·7	+0·2	0·52	0·51	+0·01
Hyderabad	−·014	99·6	+1·7	71·1	+1·0	85·3	+1·4	28·5	−0·2	+ 8	51	+ 1	·525	−·040	1·0	−0·1	0·01	0·38	−0·37
Mysore	−·011	93·9	+1·3	67·7	+1·6	80·8	+1·5	26·3	−0·3	+ 4	62	0	·536	+·005	2·2	+0·5	0·06	0·31	−0·25
Madras	−·013	93·4	+0·3	75·3	+1·9	84·3	+1·1	18·1	+0·4	+ 5	74	+ 1	·784	+·029	2·8	+0·4	0·36	0·63	−0·27

Table

(2) Abstract of observations taken at 8 hrs. at 211

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 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	29·803	...	29·880	29·886	6th	29·744	23rd	81·3	75·0	92·9	...	76·0	...	84·4	.	16·9	97·4	16th	72·9	11th
	Mergui	66	29·906	+·012	29·991	29·979	6th	29·832	23rd	78·7	75·1	91·9	+0·9	73·5	+0·9	82·7	+0·9	18·4	95·8	28th	70·8	7th & 13th.
	Tavoy	19	29·948	—·0 9	29·898	30·046	6th	29·864	23rd	77·5	73·9	94·1	+1·0	72·3	+1·7	83·2	+1·3	21·8	97·2	26th	66·4	12th
	Moulmein	77	29·895	+·014	29·911	30·012	6th	29·792	30th	79·1	73·6	94·7	+0·6	73·3	+0·4	89·0	+0·5	21·4	99·0	21st	68·5	17th
	Rangoon	18	29·943	+·010	29·899	30·048	6th	29·855	30th	76·3	74·0	96·1	0	72·4	+1·2	84·3	+0·6	23·7	99·3	22nd	68·4	17th
	Bassein	27	29·949	+·024	29·912	30·065	6th	29·857	23rd	80·2	74·6	95·7	+1·6	71·5	+0·5	83·6	+1·1	24·2	102·2	29th	66·8	6th
	Diamond Island	41	29·917	+·002	29·893	30·026	6th	29·817	23rd	81·2	74·8	86·7	+1·6	76·2	+0·8	81·5	+1·2	10·5	91·2	26th	71·0	5th
	Toungoo	164	29·806*	+·025*	29·909*	30·028	6th	29·699	23rd	78·3	71·5	96·4	—1·0	68·8	+0·4	82·6	—0·3	27·6	100·6	21st	63·2	10th
	Kyaukpyu	18	29·938	...	29·896	30·043	6th	29·828	23rd	76·5	72·8	85·6	...	71·4	...	78·5	...	14·2	88·4	12th	64·4	2nd
	Akyab	20	29·940	+·006	29·901	30·064	6th	29·849	23rd	74·4	70·9	87·8	—0·8	68·3	—0·4	78·0	—0·6	19·5	92·6	23rd	63·4	7th
3	Minbu	*165*	29·767	+·004	29·876	29·919	6th	29·665	23rd	76·8	66·9	98·2	—0·3	69·6	+0·1	83 9	—0·1	28·6	104·7	28th	62·4	9th
	Yamethin	644	29·290	+·018	29·889	29·424	6th	29·181	30th	77·0	67·0	97·3	—0·8	69·5	+1·0	83·4	+0·1	27·	102·8	26th	63·2	9th
	Mandalay	250	29·681	+·0 9	29·881	29·832	6th	29·563	30th	78·8	66·3	99·5	+1·8	69·7	+1·4	84·6	+1·6	29·8	106·5	28th	63·5	9th
	Monywa	*280*	29·667	+·012	29·900	29·815	6th	29·549	11th	75·8	65·9	97·4	+1·7	68·4	+1·4	82·9	+1 5	29·0	102·0	27th	62·3	8th
	Lashio	*2,890*	27·150	+·011	27·096	27·262	6th	27·053	13th	65·1	59·5	85·1	—0·9	57·7	+2·0	71·4	+0·5	27·4	89·6	26th	51·8	1st
	Bhamo	361	29·557	+·06	29·82	29·688	6th	29·423	11th	66·9	64·9	86·9	—1·2	62·6	+3·0	74·7	+0·9	24·3	93·1	23rd	52·7	8th
	Myitkyina	463	29·460	—·010	29·897	29·630	6th	29·328	11th	65·4	62·0	82·4	—2·5	62·1	+1·2	72·3	—0·7	20·3	89·6	24th	54·6	8th
	II.—Assam.																					
4	Dibrugarh	353	29·596	+·001	29·92	29·720	6th	29·377	11th	63·9	62·3	73·5	—4·2	61·4	+1·2	67·4	—1·5	12·1	83·7	26th	57·5	10th
	Sibsagar	333	29·619	—·001	29·924	29·746	6th	29·416	11th	63·9	62·5	72·6	—6·2	61·9	+2·2	67·2	—2·0	10·7	83·0	26th	57·7	8th
	Tezpur	252	29·702	+·017	29·922	29·861	6th	29·477	11th	65·3	63·1	78·6	—4·0	63·8	+1·2	70·7	—1·4	15·8	85·1	20th	58·0	23rd
	Gauhati	196	29·756	+·006	29·914	29·908	6th	29·533	11th	67·7	64·9	80·9	—4·6	62·5	+3·5	71·7	—0·5	18·4	87·0	22nd	58·9	31st
	Dhubri	115	29·813	+·009	29·886	29·978	6th	29·630	11th	68·2	65·1	82·0	—4·1	64·9	+2·2	73·5	—0·9	17·1	90·9	21st	60·1	31st
	Silchar	104	29·879	+·023	29·938	30·024	6th	29·735	11th	69·4	66·5	81·3	—4·9	63·6	+0·5	72·4	—2·2	17·6	90·0	22nd	56·2	8th
	Srimangal	66	29·887	...	29·904	30·046	6th	29·762	11th	69·3	66·6	85·1	—2·5	61·4	+0·9	73·3	—1·3	23·7	94·9	22nd	54·6	8th
	III.—Bengal.																					
5	Cox's Bazar	36	29·920	...	29·901	30·044	6th	29·817	30th	74·6	71·4	84·9	...	67·5	...	76·2	...	17·4	91·8	23rd	63·5	8th & 9th.
	Chittagong	87	29·870	+·006	29·905	30·017	6th	29·753	30th	73·2	69·8	85·5	—1·3	66·8	—0·6	76·2	—0·9	18·7	92·6	22nd	59·7	8th
	Noakhali	43	29·919	+·021	29·910	30·069	6th	29·816	30th	74·7	71·3	84·7	—1·7	70·0	+2·7	77·4	+0·5	14·7	92·4	28th	61·2	7th
	Barisal	13	29·930	+·007	29·829	30·104	6th	29·830	30th	71·9	73·3	86·6	—2·6	70·0	+1·2	78·3	—0·7	16·6	92·0	28th	60·5	7th
	Narayanganj	26	29·912	+·006	29·887	30·094	6th	29·802	23rd	73·2	69·9	83·3	—4·2	66·1	—0·1	76·7	—2·1	17·2	92·5	22nd	61·8	7th

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

* Mean of 28 days.

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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.
14	0	11	6	0	0	0	0	0	N 60° E		6·2			53		73		·779		4·8		1	−0·7	0·70	0·97	−0·27	2·83	3·68	− 0·85	0·70	Victoria Point.
17	0	0	7	6	1	0	0	0	S 65° E	N 27° W	4·1*	1·6	+2·5	40	−13	84	+ 1	·823	−·014	2·3	−0·6	5	+0·7	2·55	2·89	−0·34	6·96	6·38	+ 0·58	0·98	Mergui.
18	1	2	0	0	0	0	0	0	N 31° E	N 34° W	1·3	1·2	+0·1	7	−11	84	− 2	·785	+·010	3·8	+2·7	2	−0·1	1·89	1·52	+0·37	2·13	2·46	− 0·33	1·60	Tavoy.
7	0	8	13	3	1	0	0	0	N 83° E	S 58° E	2·8	2·4	+0·4	66	+ 1	76	− 4	·758	−·021	1·7	−0·4	2	+1·4	1·71	0·42	+1·29	2·54	1·08	+ 1·46	1·53	Moulmein.
10	5	6	1	1	2	1	1	4	N 9° E	S 64° W	3·9	3·3	+0·6	30	−38	89	+ 4	·807	+·067	5·3	+2·9	0	−0·6	0·14	0·34	−0·20	0·85	1·18	− 0·33	0·08	Rangoon.
9	6	0	0	0	0	0	4	12	N 41° W	N 55° W	3·0	4·1	−1·1	59	− 9	77	− 8	·787	+·007	2·7	+0·9	0	−0·2	0	0·16	−0·16	0·40	0·99	− 0·59	0	Bassein.
0	13	2	4	1	0	0	1	10	N 6° W	N 30° W	9·4	6·8	+2·6	69	− 4	73	− 4	·774	+·003	4·4	+1·8	0	−0·3	0	0·20	−0·20	1·43	1·42	+ 0·01	0	Diamond Island.
4	5	6	2	7	6	1	0	0	S 77° E	S 51° E	2·1	2·3	−0·2	33	−10	71	− 3	·675	−·002	2·6	+0·4	1	+0·5	0·27	0·35	−0·08	2·18	1·19	+ 0·99	0·15	Toungoo.
29	0	0	1	0	0	0	0	1	N 23° E		1·0			2		83		·758		3·9		1	+0·4	0·19	0·60	−0·41	5·15	1·10	+ 4·05	0·16	Kyaukpyu.
0	8	19	1	0	0	2	1	0	N 31° E	N 32° E	3·1	2·7	+0·4	76	+ 1	83	− 1	·714	+·005	3·6	+1·4	1	+0·2	0·40	0·52	−0·12	2·48	1·42	+ 1·06	0·27	Akyab.
4	1	2	0	13	0	4	1	6	S 25° E	S 63° E	3·1	5·4	−2·3	20	− 3	88	+ 1	·530	+·010	1·9	+0·9	0	−0·4	0	0·35	−0·35	1·61	0·98	+ 0·63	0	Minbu.
										S 38° E		3·4				57	− 5	·529	−·028	1·0	+0·1	1	+0·5	0·21	0·40	−0·19	3·02	1·23	+ 1·79	0·11	Yamethin.
										S 3° W		3·1				49	− 5	·429	−·022	3·4	+2·0	0	−0·6	0·03	0·22	−0·19	1·34	0·69	+ 0·65	0·03	Mandalay.
8	10	1	1	3	1	0	0	7	N 5° W		2·0			43		58	− 1	·503	+ ·007	3·2	+1·5	2	+1·1	0·29	0·42	−0·13	6·56	0·86	− 0·30	0·15	Monywa.
24	1	3	1	0	0	2	0	0	N 45° E		2·6			10		71	+ 1	·438	+·027	1·5	−1·6	2	+0·7	1·12	0·62	+0·50	2·11	2·17	− 0·06	0·73	Lashio.
26	0	3	0	0	0	0	0	0	N 48° E	N 3° W	1·3	2·4	−1·1	10	−19	89	+ 8	·587	+·064?	5·6	+2·7	4	+2·0	1·74	0·73	+1·01	3·86	2·33	+ 1·53	0·85	Bhamo.
20	3	6	2	0	0	0	0	0	N 41° E		4·4			30		82	+ 3	·567	−·008	5·7	+2·1	6	+2·8	2·57	0·95	+1·62	3·81	2·72	+ 1·09	0·80	Myitkyina.
																															II.—Assam.
16	0	2	7	5	0	1	0	0	S 78° E		0·7			37		91	+ 5	·540	+·032	7·8	+2·2	19	+10·3	14·06	4·23	+9·85	18·05	8·52	+ 9·53	1·90	Dibrugarh.
7	8	12	1	1	0	1	0	1	N 29° E	N 51° E	1·8	2·2	−0·4	59	+ 9	93	+ 1	·549	+·002	8·5	+2·5	15	+5·7	7·63	4·75	+2·88	10·59	8·61	+ 1·98	1·32	Sibsagar.
4	0	13	12	0	0	1	1	0	N 57° E		3·5			69		88	+ 7	·548	+·042	6·6	+3·5	12	+7·0	7·72	2·01	+5·71	8·72	4·03	+ 4·69	1·72	Tezpur.
8	0	8	14	1	1	0	1	1	N 51° E		1·7			56		85	+ 6	·577	+·075	5·0	+0·3?	11	+6·5	7·12	2·24	+5·18	8·81	4·22	+ 4·59	2·16	Gauhati.
5	0	8	11	3	1	2	1	0	N 88° E	N 72° E	4·7	4·6	+0·1	53	+ 6	81	+ 6	·568	+·048	5·6	+3·2	6	+3·4	2·68	1·88	+0·80	3·30	3·05	+ 0·25	0·89	Dhubri.
21	0	4	4	2	0	0	0	0	N 86° E	S 83° E	3·0	3·2	+0·8	27	+11	86	+ 5	·613	+·029	5·8	+1·7	16	+6·5	12·46	8·03	+4·43	15·81	11·47	+ 4·34	1·67	Silchar.
																87	+ 4	·622	+·005	2·5		14	+8·9	11·68	3·91	+7·77	13·92	6·51	+ 7·41	1·63	Srimangal.
																															III.—Bengal.
11	0	4	8	5	2	1	0	0	S 78° E		3·0			46		85		·732		3·5		4	+1·9	3·17	1·66	+1·51	5·55	2·91	+ 2·64	1·43	Cox's Bazar.
3	0	10	5	9	3	1	0	0	S 81° E	N 87° E	3·0	4·0	−1·0	59	+ 5	84	+ 2	·688	+·007	4·4	+1·2	5	+2·1	4·09	2·66	+1·43	5·62	4·61	+ 0·81	1·50	Chittagong.
11	2	0	2	7	3	3	1	1	S 16° E		1·9			23		86	+ 2	·742	+·002	4·2	+1·2	9	+5·5	7·44	2·67	+4·77	8·26	4·53	+ 3·73	2·18	Noakhali.
7	1	2	0	2	5	3	1	4	S 30° W	S 13° W	3·1	2·7	+0·4	30	+17	87	+ 2	·755	+·014	3·0	−0·4?	8	+4·3	5·40	2·26	+3·23	7·03	4·28	+ 2·75	1·15	Barisal.
7	1	0	3	5	5	5	4	1	S 9° W	S 13° W	2·8	3·7	−0·9	33	− 6	84	+ 1	·668	+·001	5·3	+0·6	12	+8·5	9·48	2·69	+6·79	12·85	4·57	+ 8·28	2·23	Narayanganj.

* Mean of 22 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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	29·873	+·007	29·889	30·040	6th	29·742	11th	69·2	65·9	88·3	−3·9	65·8	+1·4	74·6	−1·3	17·5	93·1	22nd	61·1	8th
	Bogra	75	29·845	+·004	29·873	30·050	6th	29·720	11th	69·5	66·3	86·7	−3·5	64·2	+1·0	75·5	−1·3	22·5	97·4	22nd	59·0	18th
	Dinajpur	123	29·784	+·001	29·866	29·949	6th	29·617	11th	68·5	64·2	85·0	−4·0	62·8	+2·3	73·9	−0·9	22·2	94·8	21st	57·0	18th, 19th & 24th.
	Jalpaiguri	283	29·640	+·010	29·890	29·813	6th	29·453	11th	67·0	63·9	83·2	−1·4?	63·5	+2·8	72·9	+0·7?	20·7	90·3	21st	57·2	17th
	Saugor Island	10	29·904	−·013	29·859	30·064	6th	29·796	30th	78·8	74·2	85·4	−1·6	74·3	−0·3	79·8	−0·9	11·1	90·4	25th	63·8	7th
	Midnapore	149	29·752	−·024	29·852	29·908	6th	29·643	27th	76·2	70·2	93·3	−1·5	71·1	+1·8	82·2	+0·1	22·2	101·2	3rd	61·9	7th
	Calcutta	21	29·898	+·008	29·866	30·076	6th	29·789	27th	74·9	71·8	88·7	−2·2	71·4	+2·1	80·1	−0·1	17·3	95·5	22nd	60·6	7th
	Jessore	30	29·898	+·005	29·875	30·093	6th	29·797	23rd	74·0	70·5	86·1	−5·5	67·8	0	76·9	−2·7	18·3	93·6	22nd	60·6	7th
	Burdwan	99	29·796	−·025	29·845?	29·975	6th	29·660	27th	71·4	68·6	88·9	−4·5	67·3	−0·8	78·1	−2·7	21·6	96·8	22nd	59·8	7th & 8th
	Berhampore	67	29·854	+·004	29·872	30·030	6th	29·753	11th	72·3	67·7	87·5	−4·5	66·8	+1·2	77·1	−1·7	20·7	95·6	22nd	61·2	7th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·857	−·022	29·853	30·016	6th	29·755	30th	76·3	71·8	91·0	−1·3	71·1	+1·7	81·0	+0·2	19·9	97·9	22nd	61·4	7th
	Hukitala (False Point)	29	29·905	−·005	29·875	30·067	6th	29·783	30th													
	Cuttack	80	29·840	−·011	29·863	29·979	6th	29·716	30th	77·8	74·0	95·4	−1·4	74·3	+1·8	84·9	+0·2	21·1	100·4	15th	68·0	6th
	Puri	24	29·920	+·005	29·885	30·085	6th	29·804	30th	80·4	76·3	86·6	+0·3	77·6 (a)	+2·4	82·1 (a)	+1·3	9·0	89·2	25th	68·2	30th
	Angul	455	29·451	−·034	29·857	29·538	6th	29·337	27th	76·8	70·3	95·2	+0·4	70·3	+2·8	82·9	+1·6	24·9	100·8	14th	64·4	25th
	Sambalpur	486	29·410	−·037	29·853	29·539	6th	29·296	27th	75·8	68·5	95·5	−0·7	68·0	+0·7	81·8	0	27·5	101·0	15th	61·7	25th
7	Chaibasa	733	29·155	−·023	29·855	29·250	6th	29·015	27th	72·4	66·1	93·1	−0·2	67·0	+2·8	80·0	+1·3	26·1	101·1	27th	58·7	7th
	Ranchi	2,133	27·759	−·019	29·843?	27·848	6th	27·642	27th	69·6	59·7	86·0	−1·4	63·[illegible]	−0·1	74·7	−0·7	22·6	93·7	28th	56·8	7th
	Purulia	816	29·078	−·019	29·863	29·229	6th	28·954	27th	72·6	64·3	91·8	−1·2	66·8	+0·6	79·3	−0·3	25·0	99·5	14th	59·3	7th
	Daltonganj	730	29·155	−·033	29·862	29·294	6th	29·005	27th	66·7	60·8	92·4	+2·5?	61·6	+2·3	77·0	+2·4?	30·8	101·2	27th	54·4	24th
8	Purnea	124	29·786	+·002	29·868	29·929	6th	29·613	11th	68·3	63·8	85·0	−4·6	61·1	+0·9	73·0	−1·9	23·9	94·0	22nd	53·8	24th
	Monghyr	155	29·742		29·854	29·883	6th	29·634	11th	70·4	63·8	86·1		64·1		75·1		22·0	94·7	22nd	57·9	7th
	Darbhanga	166	29·748	+·009	29·870	29·875	6th	29·621	11th	69·2	63·2	85·8	−2·0	61·1	−1·1	73·4	−1·5	24·7	94·4	21st	53·5	24th
	Pusa	188	29·706		29·855	29·842	6th	29·567	11th & 30th.	68·7	63·2	87·1		60·9		74·0		26·2	96·9	22nd	52·5	24th
	Patna	183	29·723	+·001	29·866	29·864	6th	29·616	27th	72·0	63·4	86·0	−4·2	65·0	+1·1	75·5	−1·5	21·0	95·9	22nd	57·4	7th
	Buxar	239	29·643	−·021	29·845	29·818	6th	29·516	27th	69·3	62·0	89·6	−0·6	64·3	+0·9	76·9	+0·1	25·3	97·2	21st	57·0	24th
	Gaya	372	29·324	−·016	29·860	29·674	6th	29·381	27th	72·7	63·1	90·2	−2·4	66·9	+1·1	78·6	−0·7	23·3	98·5	14th	53·5	7th
	Naya Dumka	489	29·414	−·001	29·865	29·565	6th	29·312	30th	73·8	66·1	88·0	−3·2	65·6	+0·7	76·8	−1·3	22·4	96·4	14th	59·0	7th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·634	+·003	29·867	29·798	6th	29·522	27th	69·2	60·4	87·8	−2·2	61·5	−0·5	74·6	−1·3	26·3	96·1	21st	50·0	18th
	Benares	267	29·622	−·022	29·849	29·766	6th	29·486	27th	72·5	62·7	90·5	−1·6	62·7	+1·3	76·6	−0·1	27·8	97·2	14th	55·7	24th
	Allahabad	309	29·595	−·013	29·867	29·759	6th	29·464	27th	72·0	62·8	91·6	−1·0	63·2	+1·4	77·3	+0·2	28·2	98·9	21st	58·3	24th
	Cawnpore	416	29·472	−·016	29·857	29·626	6th	29·345	27th	68·9	59·5	88·7	−1·0	62·4	+1·4	75·8	+0·2	26·3	95·6	21st	53·1	23rd, 24th.

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

(a) Mean of 30 days.

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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	2	5	1	1	0	0	0	S 88° E	S 76° E	1·5	2·3	—0·8	23	—38	83	+ 4	·594	—·007	6·0	+1·2	9	+5·5	3·85	2·24	+1·61	5·89	3·68	+ 2·21	0·81	Mymensingh.
10	1	3	9	1	4	3	0	0	S 69° E	S 53° E	2·3	2·6	—0·3	37	+13	84	+11	·606	+·062	5·6	+3·7	3	+0·8	2·07	1·31	+0·76	3·43	2·62	+ 0·81	1·05	Bogra.
1	4	4	12	2	1	3	4	0	N 77° E	S 14° W	3·2	3·6	—0·4	33	+30	79	+12	·546	+·073	5·0	+2·8	3	+1·4	1·13	0·83	+0·30	2·53	1·85	+ 0·68	0·46	Dinajpur.
12	1	2	9	2	2	0	0	2	S 88° E	N 75° E	1·5			36	— 5	84	+ 8	·554	+·049	3·3	+1·5	6	+3·4	1·67	1·51	+0·16	1·94	2·69	— 0·75	0·77	Jalpaiguri.
0	1	2	1	1	10	12	2	2	S 3[illegible]° W	S 49° W	9·6	6·2	+3·4	59	+20	79	— 4	·791	—·013	4·0	+0·1	4	+1·9	5·11	1·47	+3·64	7·76	3·20	+ 4·56	3·12	Saugor Island.
4	3	2	0	9	8	2	2	1	S 20° E		4·0			39		73	+ 6	·661	+·070	2·8	+0·9	5	+3·3	6·21	1·43	+4·78	6·33	3·48	+ 2·85	3·13	Midnapore.
4	0	4	1	3	5	9	3	2	S 28° W	S 43° W	4·7	3·6	+1·1	33	—14	85	+ 5	·743	+·043	4·4	+1·5	5	+2·6	6·27	1·39	+4·88	7·75	3·12	+ 4·63	2·09	Calcutta.
25	0	1	1	1	2	1	0	0	S 33° E	S 32° W	1·8	2·1	—0·3	13	—16	83	+ 3	·706	+·016	5·8	+2·3	8	+4·8	7·57	2·05	+5·52	8·96	4·07	+ 4·89	2·13	Jessore.
19	1	1	1	1	1	2	3	2	W	S 58° W	1·9	2·3	—0·4	11	—26	86	+19	·666	+·109	5·2	+2·2	8	+5·5	8·94	1·55	+7·39	11·25	3·36	+ 7·89	3·11	Burdwan.
6	0	4	4	2	8	3	3	1	S 17° E	S 42° W	3·0	2·4	+0·6	27	—16	78	+ 8	·617	+·062	5·0	+1·3	6	+4·0	3·75	1·07	+2·68	4·61	2·51	+ 2·10	0·75	Berhampore.
																															IV.—Bihar and Orissa.
12	1	1	1	0	6	10	0	0	S 25° W	S 61° W	3·9	4·2	—0·3	40	+ 4	80	+ 3	·727	+·041	3·2	+1·3	6	+2·6	5·05	2·05	+3·00	7·25	4·31	+ 2·94	2·45	Balasore.
1	0	1	0	2	10	12	1	4	S 32° W	S 70° W	11·7	7·9	+3·8	62	+ 8					6·4	+2·2	4	+2·5	2·19	1·09	+1·10	3·90	3·24	+ 0·66	1·22	Hukitala (False Point).
10	0	0	1	0	2	10	7	1	S 59° W	S 50° W	2·9	2·4	+0·5	53	+24	83	+ 5	·789	+·071	3·2	+0·2	4	+2·5	4·06	1·10	+2·96	4·70	2·34	+ 2·36	1·95	Cuttack.
	2	1	0	0	12	13	2	1	S 31° W		14·5			68		82	— 2	·853	+·018	3·2	+0·5	3	+2·0	2·18	0·54	+1·64	4·38	1·89	+ 2·49	1·66	Puri.
8	0	6	0	5	3	2	1	6	N 45° E		5·1			3		71	+ 4	·660	+·094	2·3	—0·7	4	+1·7	1·44	1·04	+0·40	2·41	3·36	— 0·95	0·53	Angul.
0	6	16	3	2	0	1	1	2	N 37° E	N 46° E	3·1	2·3	+0·8	69	+23	68	+13	·600	+·115	1·6	—0·3	4	+2·2	2·30	0·90	+1·40	2·54	2·29	+ 0·25	1·26	Sambalpur.
16	1	0	2	0	0	8	3	1	S 61° W	S 69° W	2·3	1·2	+1·1	27	—24	71	+ 8	·565	+·098	4·0	+2·2	7	+4·9	2·40	1·03	+1·37	3·88	3·52	+ 0·36	1·01	Chaibassa.
4	0	0	1	3	2	9	8	4	S 61° W	N 86° W	3·8	4·7	—0·9	53	+10	57	+12	·395	+·056	3·5	+1·7	9	+6·3	2·32	1·34	+0·98	3·16	3·96	— 0·80	0·39	Ranchi.
22	0	0	0	2	0	1	3	3	W		1·6			13		63	+ 8	·496	+·059	3·8	+2·1	6	+3·6	4·05	1·17	+2·88	4·55	3·60	+ 0·95	1·35	Purulia.
18	0	1	4	8	0	1	1	0	S 60° E		3·7			36		69	+11	·457	+·059	2·1	+0·6	5	+3·2	1·84	0·69	+1·15	3·06	2·95	+ 0·11	0·68	Daltonganj.
1	1	3	16	2	0	2	5	1	N 85° E	N 45° E	3·2	2·9	+0·3	40	+36	78	+10	·534	+·052	5·2	+3·9	3	+1·7	1·41	0·58	+0·83	2·99	1·76	+ 1·23	0·58	Purnea.
8	0	0	3	13	0	6	1	0	S 28° E		6·7			48		71		·578		4·4		3	+1·7	0·99	0·50	+0·49	1·52	2·30	— 0·78	0·67	Monghyr.
19	0	2	6	0	0	0	4	0	N 67° E	S 82° W	3·5	3·3	+0·2	10	—14	71	+ 8	·503	+·055	5·3	+4·1	2	+0·7	1·06	0·53	+0·53	2·36	1·66	+ 0·70	0·57	Darbhanga.
4	0	5	7	5	1	5	3	1	S 60° E		3·1			26		73		·509		5·0		2	+0·2	1·11	0·58	+0·53	2·83	1·72	+ 1·11	0·51	Pusa.
11	0	0	12	1	0	8	4	0	S 66° E	S 63° E	4·0	2·8	+1·2	23	— 6	62	+10	·476	+·063	4·7	+3·0	3	+1·8	0·92	0·50	+0·42	1·77	1·88	— 0·11	0·32	Patna.
6	0	2	6	4	4	5	4	0	S 18° E		4·0			29		65	+16	·464	+·069	4·8	+3·9	3	+1·9	1·07	0·39	+0·68	1·55	2·00	— 0·45	0·39	Buxar.
5	1	4	2	4	4	8	3	0	S 6° W	S 37° W	3·1	3·1	0	30	—10	57	+ 2?	·466	+·0207	3·7	+1·6	3	+1·8	1·45	0·47	+0·98	1·84	2·15	— 0·31	1·00	Gaya.
29	1	1	1	2	0	2	1	0	S 33° E		2·1			3		67	+17	·553	+·139	3·3	+1·9	7	+5·2	3·05	1·06	+1·99	3·97	2·39	+ 1·58	0·83	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
10	0	0	14	1	0	0	6	0	S 86° E	N 73° W	2·5	2·3	+0·2	30	— 6	58	+ 1	·414	+·001	2·1	+0·4P	1	+0·2	0·26	0·44	—0·18	1·17	1·88	— 0·71	0·26	Gorakhpur.
6	1	4	4	7	0	1	6	2	S 83° E	S 54° W	2·8	3·4	—0·6	12	—35	56	0	·439	+·020	3·4	+1·5	1	+0·1	0·91	0·36	+0·55	1·31	1·95	— 0·64	0·72	Benares.
11	0	4	7	1	0	1	6	1	N 56° E	S 85° W	2·7	3·7	—1·0	10	—29	50	+ 3	·390	+·026	3·6	+1·5	2	+1·2	0·57	0·32	+0·25	1·04	1·88	— 0·84	0·33	Allahabad.
2	1	5	5	5	4	2	5	2	S 54° E	S 80° W	3·4	3·1	—0·7	17	—19	55	+ 7	·387	+·036	1·9	+0·7	2	+1·1	0·38	0·33	+0·05	1·46	1·76	— 0·30	0·23	Cawnpore.

Table

(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. 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
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	366	29·512	−·024	29·854	29·648	6th	29·408	27th	70·3	60·6	90·2	−0·8	61·5	+1·3	75·8	+0·3	28·7	98·5	21st	55·0	6th
	Bahraich	407	29·465	−·016	29·846	29·608	6th	29·366	27th	67·3	58·8	86·6	−1·8	60·2	+1·3	73·4	−0·3	26·4	94·3	25th	53·4	23rd
10	Jhansi	824	29·057	−·058	29·853	29·222	16th	28·899	26th	73·3	59·9	93·5	+0·7	64·6	−1·7	79·1	−0·5	28·9	103·9	26th	55·3	23rd
	Agra	556	29·323	−·042	29·851	29·493	6th	29·178	27th	72·3	60·3	89·2	−0·9	63·3	+0·7	76·3	−0·1	25·9	100·5	26th	57·1	23rd
	Mainpuri	516	29·357	−·035	29·850	29·506	6th	29·151	26th	66·5	58·6	89·4	0	60·4	+2·0	74·9	+1·0	29·0	97·8	26th	54·0	24th
	Bareilly	568	29·297	−·019	29·849	29·445	6th	29·184	27th	66·3	59·3	86·6	−0·9	60·3	+1·8	73·5	+0·5	26·3	94·2	22nd	51·4	23rd
	Roorkee	899	28·968	−·015	29·865	29·118	6th	28·840	8th	64·5	55·9	83·4	−1·3	56·3	+0·7	69·9	−0·3	27·1	89·2	27th	46·6	1st
	VI.—Punjab.																					
11	Delhi	718	29·158	−·029	29·867	29·299	6th & 16th.	29·029	8th	65·3	56·7	83·9	−2·5?	61·1	−0·8	72·5	−1·7?	22·8	90·1	27th	51·7	16th
	Hissar	725	29·159	−·024	29·875	29·339	16th	28·970	8th	65·9	56·0	87·4	+0·1	56·0	−0·9	71·7	−0·4?	31·4	93·4	25th	49·3	22nd
	Patiala	818	29·017	−·062	29·831	29·177	16th	28·884	8th	64·5	57·2	81·7	−1·0	57·2	+0·5	69·5	−0·3	24·5	88·9	27th	50·3	1st
	Ambala	892	28·964	−·030	29·858	29·112	6th	28·820	8th	63·9	55·3	83·8	+0·7	57·0	+1·0	70·4	+0·9	26·8	90·3	27th	47·4	1st
	Ludhiana	812	29·040	−·041	29·856	29·211	16th	28·833	8th	61·9	55·1	81·9	−1·3	56·7	−0·3	69·3	−0·8	25·2	90·1	27th	51·6	1st
	Lahore	702	29·154	−·048	29·859	29·333	16th	28·959	8th	61·0	55·7	80·3	−3·6	54·2	−0·3	67·2	−1·9	26·1	88·9	31st	48·5	22nd
	Sialkot	630	29·029	−·041	29·869	29·188	16th	28·860	8th	60·4	55·7	76·2	−4·8	52·9	−3·0	64·2	−3·9	24·0	83·7	26th	46·6	22nd
	Rawalpindi	1,674	28·198	−·042	29·904	28·360	16th	28·037	8th	58·7	52·7	72·7	−2·6	49·5	−1·0	61·1	−1·8	23·2	82·1	31st	40·2	21st
12	Khushab	612	29·281	−·029?	29·891	29·458	16th	29·126	8th	63·3	55·0	81·2	+0·7?	53·0	−3·5	67·1	−1·4?	28·2	91·2	31st	46·3	9th
	Lyallpur	605	29·262		29·867	29·454	16th	29·058	8th	59·4	53·8	79·4		52·2		65·8		27·2	88·5	31st	44·2	21st
	Montgomery	558	29·310	−·046	29·862	29·514	16th	29·094	8th	63·9	55·0	82·1	−2·3	54·7	−1·0	68·4	−1·7	27·4	92·0	31st	47·7	22nd
	Multan	426	29·448	−·056	29·858	29·669	16th	29·272	8th	63·5	56·6	86·0	−0·8	58·7	+0·5	71·9	−0·1	26·3	94·8	31st	51·1	22nd
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·782	−·061	29·935	28·971	16th	28·635	8th	54·0	49·3	73·6	−1·4	49·3	−2·4	61·5	−1·9	24·3	84·8	27th	43·7	9th
	Dera Ismail Khan	590	29·318	−·042	29·908	29·526	16th	29·140	8th	61·6	54·6	80·5	−1·7	54·6	−0·5	67·6	−1·1	25·9	92·0	31st	47·9	22nd
	VIII.—Sind.																					
16	Jacobabad	196	29·667	−·056	29·838	29·842	16th	29·477	8th	71·1	54·5	92·6	+1·9	62·8	+2·6	77·5	+2·3	30·3	105·9	31st	51·6	5th
	Hyderabad	96	29·781	−·067	29·831	29·961	16th	29·597	9th	73·9	62·8	94·4	+1·8	65·4	+1·4	79·9	+1·6	29·0	106·0	31st	53·3	14th
	Karachi	13	29·993	−·051	29·866	30·070	16th	29·747	27th	74·2	68·2	83·5	+1·7	69·9	+3·0	76·7	+2·7	13·6	93·7	3rd	63·2	5th
	IX.—Rajputana.																					
17	Bikaner	771	29·102	−·037	29·860	29·310	16th	28·887	8th	68·6	57·0	90·1	+1·4	60·7	−2·3?	75·4	−0·5?	29·4	101·0	25th	49·3	22nd
	Jodhpur	780	29·103	−·049	29·858	29·274	6th	28·919	8th	71·8	55·2	88·1	+2·0	63·6	+0·7	78·4	+1·2	29·5	101·5	26th	53·3	22nd
18	Jaipur	1,431	28·461	−·039	29·872	28·629	16th	28·291	8th	70·9	56·6	89·4	0	61·3	+0·6	75·4	+0·3	28·1	100·1	26th	52·1	22nd
	Ajmer	1,611	28·274	−·053	29·881	28·449	16th	28·108	8th	64·1	53·8	88·2	−0·4	59·9	−0·4	74·0	−0·4	28·3	97·4	26th	53·8	22nd
	Kotah	832	29·045	−·050	29·843	29·242	6th	28·872	8th	76·1	60·2	93·8	+0·8	67·2	+1·2	80·5	+1·0	26·6	103·8	26th	60·0	22nd

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

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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.*
15	0	5	1	2	0	5	0	3	N 23° E	N 80° W	1·7	2·8	−1·1	2	−41	55	+ 4	·407	+ ·040	3·5	+1·5	1	0	0·28	0·38	−0·08	1·02	2·13	−1·11	0·12	Lucknow.
18	2	1	6	1	0	0	1	2	N 56° E	N 51° W	2·5	2·6	−0·1	20	− 8	58	− 4	·388	− ·046	3·3	+1·8	1	0	0·15	0·58	− 0·43	1·19	2·89	−1·70	0·11	Bahraich.
2	0	3	2	1	3	10	5	5	S 65° W	S 84° W	3·5	2·2	+1·3	40	+ 8	43	0	·346	− ·003	1·0	−0·12	0	−0·9	0·02	0·32	−0·30	0·76	1·66	−0·90	0·02	Jhansi.
6	0	5	7	3	1	5	2	2	S 73° E	N 66° W	3·6	3·5	+0·1	23	−20	48	0	·364	+ ·028	3·7	+1·5	2	+1·1	0·35	0·35	0	1·98	1·68	+0·30	0·23	Agra.
7	3	4	5	3	1	2	3	3	N 45° E	N 63° W	2·5	1·8	+0·7	13	−19	53	+ 1	·363	+ ·014	4·9	+2·6	2	+1·1	0·40	0·34	+0·06	1·54	2·10	−0·56	0·24	Mainpuri.
14	3	3	2	1	0	1	4	3	S 19° W	N 48° W	2·3	2·7	−0·4	20	−16	64	+ 4	·410	+ ·031	5·5	+3·2	0	−1·5	0·12	0·74	−0·62	1·98	3·06	−1·08	0·07	Bareilly.
18	0	1	0	8	0	0	0	4	S 58° E	N 41° W	2·4	2·2	+0·2	10	− 5	56	− 6	·337	− ·011	2·5	+0·2	2	+0·4	0·95	0·89	+0·06	2·32	4·69	−2·37	0·77	Roorkee.
																															VI.—Punjab.
8	0	3	0	8	1	0	7	4	S 51° W	N 87° W	3·1	2·8	+0·3	10	−10	56	+ 5	·351	+ ·023	3·2	+0·5	2	+0·6	0·96	0·53	+0·43	2·26	2·84	−0·58	0·71	Delhi.
2	2	1	5	8	4	5	3	1	S 23° E	N 24° W	4·7	3·4	+1·3	37	+33	51	− 7	·320	− ·037	2·6	−0·1	1	+0·1	0·14	0·44	−0·30	1·76	1·85	−0·09	0·14	Hissar.
2	2	5	3	8	1	1	2	6	N 59° E		4·3			19		63	0	·377	− ·010	2·8	−0·3	6	+3·7	3·77	1·22	+2·55	6·47	4·41	+2·06	1·42	Patiala.
3	3	3	7	6	1	0	0	3	N 38° E	N 37° W	4·7	2·3	+2·4	43	+19	55	−10	·320	− ·054	4·0	+1·2	3	+1·0	1·40	0·94	+0·46	4·25	5·06	−0·81	0·53	Ambala.
25	2	1	0	1	2	0	0	0	E	N 31° W	2·3	1·6	+0·7	5	−17	63	+ 1	·348	− ·011	2·4	−0·9	1	−1·1	0·26	1·07	−0·81	3·39	4·97	−1·58	0·13	Ludhiana.
16	2	4	3	2	0	0	1	[illegible]	N 37° E	N 10° W	1·6	2·1	−0·5	23	+ 5	71	+ 5	·378	+ ·005	4·1	+0·5	1	−0·9	0·64	0·86	−0·22	3·29	3·33	−0·04	0·55	Lahore.
6	10	5	4	3	1	1	1	0	N 54° E	N 7° E	1·5	1·5	0	33	+ 4	74	+ 6	·384	+ ·008	3·4	+0·6	4	+0·9	1·95	1·54	+0·41	6·60	6·09	+0·51	0·59	Sialkot.
9	2	4	1	2	0	2	9	1	N 57° W	N 39° W	2·9	2·1	+0·8	27	+ 1	67	− 3	·323	− ·009	2·2	−2·1	5	+0·4	2·76	2·27	+0·49	9·00	8·27	+0·73	0·80	Rawalpindi.
16	1	5	4	2	1	1	1	0	N 79° E	N 22° E	3·1	3·7	−0·6	23	+ 1	66	− 1	·323	− ·008	3·5	+0·3	3	+0·5	0·61	1·19	−0·58	4·02	3·40	+0·62	0·30	Khushab.
12	2	2	1	4	0	0	2	7	N 15° W		1·7			23		67		·336		4·5		2	−0·4	0·49	0·81	−0·32	2·36	2·19	+0·17	0·26	Lyallpur.
3	7	5	1	6	2	0	2	5	N 23° E	N 53° E	4·0	3·9	+0·1	27	+ 5	54	+ 3	·318	+ ·004	2·7	−0·4	0	−1·6	0·08	0·52	−0·44	1·68	1·96	−0·28	0·05	Montgomery.
14	0	6	0	1	0	2	0	8	N 15° W	N 50° E	1·4	1·4	0	27	+ 2	64	+ 6	·366	+ ·010	2·0	−0·7	0	−1·1	0	0·43	−0·43	1·98	1·47	+0·51	0	Multan.
																															VII.—North-West Frontier Province.
29	0	1	0	0	0	0	0	1	N	S 27° W	1·0	2·6	−1·6	5	−20	71	0	·294	+ ·043	3·3	−1·2	5	+0·6	3·55	2·20	+1·35	11·87	5·72	+6·15	1·62	Peshawar.
22	0	5	0	1	0	0	0	3	N 24° E	N 13° W	1·6	1·5	+0·1	20	−12	62	− 3	·333	− ·033	3·8	+0·3	1	−1·3	0·38	1·08	−0·70	1·31	2·51	−1·20	0·24	Dera Ismail Khan.
																															VIII.—Sind.
17	0	4	0	7	0	1	0	2	S 76° E	N 83° E	0·1	2·8	−2·7	20	− 5	28	−17	·210	− ·106	1·5	−1·2	0	−0·7	0	0·24	−0·24	0·78	1·01	−0·23	0	Jacobabad.
14	5	0	0	0	2	7	1	2	S 86° W	S 83° W	3·3	6·1	−2·8	23	− 5	55	+ 5	·440	+ ·055	0·3	−1·8	0	−0·6	0	0·27	−0·27	0·48	0·85	−0·37	0	Hyderabad.
1	5	4	1	0	0	3	11	6	N 53° W	N 32° W	8·6	8·3	+0·3	56	+20	73	+ 6	·617	+ ·101	2·8	+0·5	0	−0·7	0	0·31	−0·31	0·45	1·44	−0·99	0	Karachi.
																															IX.—Rajputana.
2	1	2	5	13	3	4	1	1	S 43° E	S 46° W	5·0	3·9	+1·1	40	+38	46	+ 3	·311	+ ·009	2·3	−0·5	0	−0·7	0	0·29	−0·29	0·07	1·15	−1·08	0	Bikaner.
9	0	13	1	0	2	5	1	0	N 87° E		2·9			27		29	− 4	·224	− ·019	3·7	+1·1	0	−0·3	0	0·10	−0·10	0·30	0·58	−0·28	0	Jodhpur.
10	6	5	3	1	0	1	0	5	N 14° E	N 20° W	3·5	3·3	+0·2	40	0	38	− 4	·278	− ·031	4·0	+1·3	2	+1·1	0·63	0·39	+0·24	2·39	1·39	+1·00	0·52	Jaipur.
28	0	0	0	0	0	1	2	0	S 75° W	S 68° W	2·8	3·0	−0·7	10	− 1	48	− 1	·288	− ·047	1·4	−1·0	2	+1·3	0·34	0·21	+0·13	1·54	1·17	+0·37	0·20	Ajmer.
31	1	1	0	0	0	2	3	3	N 68° W		2·2			23		35	+ 1	·314	+ ·030	3·1	+1·9	0	−0·3	0·09	0·14	−0·05	1·24	1·05	+0·19	0·09	Kotah.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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	29·444	−·036	29·873	29·597	6th	29·293	27th	73·7	61·6	97·9	+2·0	63·3	−0·1	80·6	+0·9	34·6	105·6	26th	53·1	15th
	Bhuj	334	29·581	−·044	29·871	29·729	16th	29·426	27th	75·9	71·4	91·9	+1·8	65·8	+0·6	80·3	+1·2	29·1	103·0	26th & 31st.	58·1	6th
	Jamnagar	61	29·879	−·042	29·887	30·035	16th	29·743	27th	75·9	70·9	91·5	+1·6	65·8	+2·1	78·6	+1·9	25·7	99·9	26th	59·0	22nd
	Dwarka	37	29·905	−·050	29·888	30·043	16th	29·761	27th	70·5	72·2	82·8	+1·3	73·5	+3·6	78·1	+2·5	9·3	88·5	7th	65·7	22nd
	Rajkot	429	29·485	−·051	29·871	29·619	16th	29·351	27th	74·1	65·3	96·6	+1·4	65·4	+3·5	81·1	+2·4	31·2	104·2	26th	57·7	22nd
	Veraval	18	29·929	−·020	29·889	30·041	16th	29·828	27th	74·4	68·6	84·4	−1·2	69·0	+3·9	76·7	+1·3	15·4	98·9	26th	60·3	7th
	Bhavnagar Para	55	29·873	−·041	29·874	30·000	16th	29·726	27th	76·1	64·6	97·1	+2·1	67·2	+1·0	82·2	+1·5	29·9	107·4	27th	60·4	15th
	Surat	39	29·896	−·032	29·878	30·013	16th	29·769	27th	76·0	68·3	93·8	−2·5?	68·5	+2·3	81·2	−0·1?	25·3	104·6	26th	63·3	16th
	Ahmadabad	163	29·767	−·031	29·882	29·902	16th	29·625	27th	74·3	65·4	98·9	+2·0	67·4	−0·1	83·1	+0·9	31·5	107·5	31st	59·9	22nd
25	Bombay	37	29·906	−·023	29·883	30·009	6th	29·817	27th	77·2	72·2	87·4	+1·7	74·3	+1·1	80·9	+1·4	13·1	91·5	26th	71·3	2nd
	Ratnagiri	207	29·720	−·023	29·868	29·822	6th	29·640	27th	79·5	71·1	87·3	−0·1	73·3	+1·2	80·3	+0·5	14·0	90·7	23rd	69·1	3rd & 6th
	Marmagao	60	29·878	−·018	29·873	29·984	6th	29·801	30th	79·7	75·1	87·3	+0·5	75·2	+0·3	81·3	+0·4	12·1	90·3	27th	72·1	8th & 9th
	Karwar	44	29·907	−·006	29·886	30·006	6th	29·823	30th	75·4	72·6	89·1	+1·6	72·8	+0·4	80·9	+1·0	16·3	91·1	23rd	67·0	6th
26	Malegaon	1,430	28·484	−·031	29·867	28·604	6th	28·358	27th	75·8	59·6	100·1	+2·6	62·1	−1·2	81·1	+0·7	38·0	105·7	29th	54·4	23rd
	Ahmadnagar	2,154	27·784	−·023	29·856	27·889	6th	27·703	27th	75·5	57·7	97·8	+3·2	61·2	−1·5	79·5	+0·9	36·6	101·6	27th	49·9	9th
	Poona	1,846	28·099	−·012	29·897	28·177	10th	28·015	30th	72·0	59·3	97·3	−0·2	60·9	−2·3	79·1	−1·3	36·4	103·0	26th	53·4	2nd
	Sholapur	1,590	28·326	−·022	29·843	28·439	6th	28·241	30th	79·1	60·0	100·1	+0·1	69·7	+0·5	84·9	+0·3	30·4	102·8	28th	59·8	9th
	Bijapur	1,948	27·986	−·011	29·864	28·024	6th	27·912	30th	79·7	66·6	98·2	+1·1	71·5	+1·3	84·8	+1·2	36·7	101·7	21st	60·5	9th
	Belgaum	2,562	27·402	−·013	29·870	27·495	6th	27·334	30th	72·8	61·5	94·4	+0·7	63·8	−0·1	79·1	+0·3	30·6	97·8	17th	59·2	5th
	XI.—Central India.																					
20	Neemuch	1,626	28·268	−·052	29·852	28·417	6th	28·121	27th	73·6	61·1	91·8	+0·8	62·2	+1·0	77·0	+0·9	29·6	101·3	26th	52·0	22nd & 23rd.
	Indore	1,823	28·094	−·029	29·854	28·233	6th	27·981	8th	76·8	63·6	93·0	+0·7	62·2	+1·8	77·6	+1·2	30·8	101·5	27th	53·1	6th
21	Nowgong	754	29·119	−·051	29·849	29·288	16th	28·962	27th	69·8	57·7	91·9	+0·2	61·6	+1·1	76·8	+0·7	30·3	100·5	26th	53·2	24th
	Sutna	1,041	28·837	−·036	29·850	28·996	6th	28·685	27th	72·6	62·2	90·4	−0·4	63·2	+1·9	76·9	+0·7	27·1	100·8	27th	57·3	17th
	XII.—Central Provinces.																					
22	Buldana	2,134								78·8	60·1	93·4	−0·1	69·3	−0·5	81·8	−0·3	24·1	99·5	27th & 28th.	62·6	9th
	Akola	925	28·966	−·030	29·865	29·097	6th	28·886	27th	77·7	59·9	100·3	+1·3	65·8	−0·1	83·1	+0·6	34·5	105·9	27th	55·9	7th
	Amraoti	1,315	28·691	−·033	29·856	28·799	6th	28·561	27th	78·4	59·5	98·3	+0·4	69·1	+0·1	83·6	+0·3	29·2	103·6	27th	63·0	22nd
23	Khandwa	1,044	28·860	−·032	29·865	28·990	6th	28·741	27th	75·7	61·8	97·4	0	64·4	−0·5	80·9	−0·3	33·0	104·5	27th	54·6	23rd
	Hoshangabad	1,006	28·898	−·034	29·871	29·034	6th	28·761	27th	73·0	58·7	95·1	−0·1	63·5	−0·7	79·3	−0·4	31·6	102·3	27th	56·4	7th
	Saugor	1,807	28·050	−·030?	29·803?	28·189	6th	27·915	27th	73·1	55·5	91·9	+0·6	65·7	+1·0	78·8	+0·8	26·2	99·6	27th	47·6	8th
	Jubbulpore	1,327	28·540	−·052	29·832	28·689	6th	28·394	27th	72·4	59·9	93·2	−0·2	63·7	+2·2	77·4	+1·0	29·5	100·3	27th	54·5	23rd
	Seoni	2,033	27·884	−·020	29·861	27·998	6th	27·784	8th	73·4	57·9	91·4	−1·4	63·6	+0·8	77·5	−0·3	27·8	96·8	27th	57·4	23rd
	Nagpur	1,017	28·898	−·010	29·870	29·020	6th	28·792	27th	77·1	62·0	97·5	−0·4	65·9	−1·6	81·7	−1·0	31·6	103·6	28th	58·9	1st
24	Pendra	2,040	27·871	−·020	29·858	27·991	6th	27·746	27th	73·7	58·2	88·7	+1·2	62·3	+0·2	75·5	+0·7	26·4	96·7	28th	56·0	23rd

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

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st Mar. 1920.	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.
8	1	4	6	2	3	4	2	1	S 60° E	N 7° W	5·7	6·3	−0·6	20	−12	48	+10	·398	+·081	2·2	+0·4	0	−0·2	0	0·09	−0·09	0·03	0·41	− 0·38	0	Deesa.
7	4	0	0	0	0		20	0	N 79° W	N 60° W	5·4	6·4	−1·0	66	+ 1	8[illegible]	+2[illegible]?	·711	+·212?	1·5	−0·4	0	−0·2	0·06	0·13	−0·07	0·12	0·39	− 0·27	0·06	Bhuj.
0	0	1	1	0	0	8	19	2	S 82° W		7·3			79		77	+ 8	·685	+·128	1·7	+0·4	0	−0·3	0	0·19	−0·19	0	0·40	− 0·40	0	Jamnagar.
2	4	1	1	0	2	5	7	9	N 70° W		9·5			53		81	+ 6	·734	+·073	1·5	−0·7	0	−0·5	0·03	0·27	−0·24	0·54	0·75	− 0·21	0·03	Dwarka.
0	5	0	1	0	1	11	9	4	S 87° W	N 25° W	6·6	5·6	+1·0	62	+ 8	61	− 1	·505	+·006	4·3	+2·9?	0	−0·1	0	0·08	−0·08	0·14	0·27	− 0·13	0	Rajkot.
3	11	1	0	1	0	0	6	9	N 32° W	N 13° W	7·4	5·6	+1·8	66	+ 1	74	+10	·630	+·110	1·5	0	0	−0·2	0	0·08	−0·08	0·74	0·24	+ 0·50	0	Veraval.
0	2	0	0	0	2	4	15	8	N 83° W	N 85° W	4·4	6·3	−1·9	76	+11	52	0	·461	+·025	1·7	+0·3	0	−0·3	0	0·13	−0·13	3·20	0·34	+ 2·86	0	Bhavnagar Para
6	4	3	2	4	5	4	1	2	S 29° E	N 46° W	3·3	4·5	−1·2	13	−23	67	+ 6	·595	+·054	2·1	+1·0	0	−0·1	0	0·02	−0·02	3·89	0·19	+ 3·70	0	Surat.
5	3	2	2	0	2	5	2	10	N 57° W	N 1° E	3·8	3·4	+0·4	37	+ 3	90	+17	·516	+·142	0·9	−0·9	0	−0·3	0	0·09	−0·09	0	0·24	− 0·24	0	Ahmadabad.
2	4	8	10	4	1		1	1	N 69° E	N 40° E	5·9	8·0	−2·1	59	+ 5	77	+ 3	·724	+·032	1·9	+0·1	0	−0·1	0	0·24	−0·04	1·32	0·22	+ 1·10	0	Bombay.
5	8	10	2	2	1	1	1	1	N 33° E	N 22° E	7·5	6·1	+1·4	49	+27	65	− 4	·650	−·016	0·7	−0·5	0	−0·1	0	0·04	−0·04	0·06	0·25	− 0·19	0	Ratnagiri.
										N 72° E		6·6				80	+ 1	·812	+·024	3·6	+[illegible]	0	0	0	0·01	−0·01	2·44	0·25	+ 2·19	0	Marmagao.
31	0	0	0	0	0	0	0	0	Calm.	N 43° E	2·2	3·4	−1·2			87	+ 5	·765	+·044	2·1	+0·7	0	0	0	0	0	0·59	0·31	+ 0·28	0	Karwar.
3	1	0	0	0	2	14	10	1	S 64° W	N 66° W	5·1	5·6	−0·5	76	+11	35	− 7	·315	−·058	1·1	−0·3	0	−0·3	0	0·07	−0·07	1·35	0·49	+ 0·86	0	Malegaon.
14	4	1	0	1	1	0	0	10	N 29° W	N 1° W	4·7	6·6	−1·9	40	−10	31	−15?	·259	−·157?	0·2	−0·6	0	−0·3	0	0·18	−0·18	2·42	0·93	+ 1·49	0	Ahmadnagar.
13	0	0	0	0	1	1	10	6	N 80° W	S 87° W	6·5	6·2	+0·3	49	+16	46	+ 5	·352	+·025	2·5	+1·4	0	−0·2	0	0·04	−0·04	0·25	0·31	− 0·06	0	Poona.
3	7	1	3	4	1	1	0	11	N 10° W	N 14° E	5·8	5·8	0	37	+15	29	− 4	·284	−·042	0·7	−0·6	0	−0·4	0	0·21	−0·21	0·54	0·91	− 0·37	0	Sholapur.
7	9	3	0	1	2	2	1	6	N 19° W	84° W		3·6		40	0	49	− 1	·496	+·006	0	−1·1	0	−0·9	0	0·29	−0·29	0·59	0·70	− 0·11	0	Bijapur.
22	2	1	0	0	1	1	1	3	N 45° W	N 8° E	3·5	8·2	−4·7	13	+ 2	52	+ 6	·409	+·021	0·9	−0·2	0	−0·7	0	0·30	−0·30	0·47	0·86	− 0·39	0	Belgaum.
																															XI.—Central India.
17	0	1	1	1	0	4	7	0	S 69° W	S 34° E	3·7	5·7	−2·0	23	− 2	47	+ 9	·389	+·088	2·1	+0·4	1	+0·7	0·19	0·08	+0·11	0·45	0·68	− 0·23	0·19	Neemuch.
10	1	4	0	1	2	0	9	4	N 64° W	N 7° W	3·6	2·5	+1·1	30	+ 1	46	+ 6	·428	+·102	1·9	+0·3	0	−0·1	0·09	0·06	+0·03	4·26	0·59	+3·67	0·05	Indore.
6	0	3	0	6	2	5	2	7	S 56° W	S 80° W	2·1	1·8	+0·3	17	−26	44	− 5	·317	−·034	3·9	+1·5	0	−0·8	0	0·32	−0·32	0·34	1·92	−1·58	0	Nowgong.
10	2	0	5	1	3	7	2	1	S 19° W	N 54° W	2·5	3·9	−1·4	20	−37	54	+13	·435	+·125	2·4	+0·2	0	−1·2	0·19	0·52	−0·33	0·29	2·53	−2·24	0·09	Sutna.
																															XII.—Central Provinces.
0	0	1	5	3	0	1	11	10	N 66° W		5·3	5·4	−0·1	39		31		·396		1·8		0	−0·6	0	0·29	−0·29	0	1·39	− 1·39	0	Buldana.
3	0	3	4	1	3	3	8	6	N 86° W	N 45° W	4·8	3·5	+1·3	23	+12	30	− 3	·286	−·012	1·2	−0·3	0	−0·8	0	0·40	−0·40	1·53	1·65	− 0·13	0	Akola.
1	0	5	3	4	1	7	8	2	S 53° W	N 72° E	5·4	3·5	+1·9	23	+ 1	29	−10	·270	−·096	1·6	+0·2	1	+0·2	0·22	0·34	−0·12	1·67	1·58	+ 0·09	0·17	Amraoti.
2	2	3	2	1	1	6	10	4	N 85° W	N 40° W	4·6	3·7	+0·9	40	+11	44	+10	·375	+·090	2·0	+0·8	0	−0·4	0·04	0·16	−0·12	3·91	0·80	+ 3·11	0·04	Khandwa.
7	0	3	0	0	0	0	0	1	N 37° E	N 63° E	1·8	1·9	−0·1	10	−15	38	− 6	·306	− 046	1·9	+0·4	0	−0·5	0	0·28	−0·28	1.68	1·34	+ 0·34	0	Hoshangabad.
5	1	2	1	5	4	5	4	4	S 37° W	S 69° E	4·2	3·1	+1·1	23	+ 5	28	− 8	·226	−·063	2·5	+1·1	0	−0·9	0	0·39	−0·39	0·48	1·84	− 1·36	0	Saugor.
3	3	2	2	11	3	4	3	1	S 34° E	S 23° E	2·1	2·0	+0·1	33	+ 4	42	− 5	·383	−·011	1·2	−0·4	2	+0·5	0·26	0·59	−0·33	0·51	2·37	− 1·86	0·16	Jubbulpore.
10	7	4	1	0	3	3	2	1	N 14° E	N 37° E	3·1	2·3	+0·8	17	−10	36	− 7	·289	−·058	1·3	−0·4	2	+0·1	1·74	0·67	+1·07	4·10	2·61	+ 1·49	1·37	Seoni.
6	4	5	6	2	1	0	4	2	N 34° E	N 14° E	4·2	3·6	+0·6	30	− 2	39	0	·359	+·006	1·6	−0·2	2	+0·7	0·77	0·53	+0·24	1·22	1·98	− 0·76	0·63	Nagpur.
7	3	0	0	1	4	4	0	2	S 46° W		4·2			13		39	− 2	·309	−·003	2·3	+0·3	2	−1·3	0·78	1·47	−0·69	0·86	4·27	− 3·41	0·38	Pendra.

Table

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

Number of sub-division.	Station.	Height of bar-dishern 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
	XII.—Central Provinces—*concld.*																					
	Raipur	970	28·915	−·040	29·840	29·048	6th	28·807	30th	77·0	64·0	95·0	−0·7	69·3	+1·1	82·2	+0·2	25·7	99·6	27th	63·2	24th
	Chanda	634	29·267	−·035	29·848	29·369	6th	29·167	30th	80·6	68·1	100·5	+0·9	68·7	+1·6	84·6	+1·3	31·8	104·5	29th	57·0	7th
	Jagdalpur	1,813	28·135		29·881	28·219	6th	28·061	30th	76·6	70·1	94·1		66·9		80·5		27·2	97·7	21st	62·1	16th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·029	−·026	29·858	28·129	6th	27·941	27th	77·8	57·8	97·3	+0·9	66·4	+0·8	81·9	+0·9	30·9	102·0	28th	56·8	9th
	Nizamabad	1,248	28·664	−·051?	29·846	28·751	6th	28·568	30th	82·1	69·2	102·5	+4·4	69·4	+1·1	85·9	+2·7	33·1	106·6	29th	57·3	7th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·415	−·020	29·846	28·508	6th	28·316	30th	80·0	66·5	101·7	+2·3	71·0	+0·2	86·4	+1·3	30·7	104·5	18th	60·8	9th
	Raichur	*1,311*	28·600	−·001	29·838	28·669	6th	28·486	30th	82·7	66·5	100·4	+1·8	75·1	+1·1	87·7	+1·5	25·3	103·6	30th	68·9	9th
	Hyderabad (Deccan)	1,719	28·214	−·005	29·860	28·296	6th	28·118	30th	78·1	69·1	97·3	+0·2	71·0	+1·0	84·2	+0·6	26·3	100·5	31st	64·1	9th
	Hanamkonda	877	29·044	−·016	29·869	29·132	6th	28·935	30th	78·5	71·2	98·2	+0·7	73·6	+1·7	85·9	+1·2	24·6	101·0	13th	69·2	1st
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·549	−·012	29·832	27·627	6th	27·468	30th	79·1	64·8	96·1	+1·4	71·4	+1·2	83·7	+1·3	24·7	98·8	31st	66·6	2nd
	Hassan	3,149	26·863	0	29·868	26·932	6th	26·793	30th	72·6	66·5	92·6	+1·4	64·5	+2·4	78·5	+1·9	28·1	95·0	31st	57·4	1st
	Bangalore	3,021	26·981	−·011	29·857	27·050	6th	26·907	30th	74·1	65·1	92·7	+1·7	65·9	+1·2	79·3	+1·5	26·8	95·8	31st	57·6	1st
	Mysore	2,518	27·452	−·019	29·854	27·528	6th	27·377	30th	76·0	68·3	94·4	+0·7	68·8	+1·5	81·6	+1·1	25·6	97·3	30th & 31st.	60·8	1st
	XV.—Madras.																					
30	Mangalore	72	29·870	−·027	29·873	29·955	6th	29·791	30th	82·4	76·4	90·8	+1·9	76·5	+2·4	83·7	+2·1	14·3	93·9	28th	72·3	6th
	Calicut	27	29·905	−·025	29·861	29·996	6th	29·817	30th	81·9	77·2	89·1	−1·0	77·3	+1·4	83·2	+0·2	11·8	90·6	26th	72·5	1st
	Cochin	9	29·933	−·015	29·870	30·014	6th	29·839	30th	83·	77·0	92·4	+1·0	78·9	+1·7	85·7	+1·3	13·5	94·3	23rd	73·5	1st
	Trivandrum	198	29·740	−·008	29·869	29·824	6th	29·660	30th	80·3	75·6	88·6	+1·3	77·4	+0·9	83·0	+1·1	11·2	90·7	31st	73·7	1st
31	Pamban	37	29·902	−·022	29·867	29·972	6th	29·816	30th	83·0	76·7	88·8	−0·7	78·5	+2·5	83·6	+0·9	10·3	90·7	31st	76·0	1st
	Madura	447	29·510	−·007	29·869	29·576	6th	29·409	30th	81·8	75·7	96·2	−0·3	75·8	+2·9	86·0	+1·3	20·4	99·4	31st	71·0	20th
	Pudukkottai	318	29·650	−·010	29·900	29·709	6th	29·564	30th	81·1	74·7	96·3	+0·6	75·1	+2·2	85·7	+1·4	21·2	98·6	8th	70·6	19th
	Negapatam	31	29·924	−·008	29·884	29·989	6th	29·840	30th	82·5	75·8	89·5	+0·7	78·2	+2·3	83·9	+1·5	11·3	92·1	29th	73·5	19th
	Trichinopoly	255	29·703	−·011	29·891	29·758	6th	29·597	30th	85·5	76·1	98·0	+0·3	74·4	+1·7	86·2	+1·0	23·6	100·9	31st	69·1	18th
	Coimbatore	1,341	28·616	−·003	29·891	28·671	6th	28·515	30th	74·6	71·9	97·0	+0·8	71·9	+2·1	84·5	+1·5	25·1	99·7	31st	63·3	1st
	Salem	913	29·044	−·001	29·895	29·100	1st	28·946	30th	78·4	72·1	98·0	−0·7	72·3	+1·4	85·2	+0·3	25·7	100·3	13th & 31st.	62·4	1st
	Cuddalore	37	29·926	−·002	29·893	29·985	6th	29·829	30th	80·3	76·4	88·4	−0·9	74·1	+1·9	81·3	+0·5	14·3	90·	30th	70·0	19th
	Vellore	707	29·241	−·019	29·892	29·293	19th	29·151	30th	76·8	72·3	95·2	+0·9	71·0	+1·3	83·1	+1·1	24·2	·8	31st	63·0	1st
	Madras	22	29·930	−·016	29·884	29·994	6th	29·833	30th	81·1	76·4	89·9	+0·1	78·7	+1·5	81·8	+0·8	16·2	92·2	31st	69·6	21st
32	Cuddapah	428	29·492	−·016	29·856	29·577	6th	29·382	30th	83·4	72·9	101·6	−0·3	76·4	+1·6	89·0	+0·7	25·2	105·0	31st	72·3	1st

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

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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.*
19	0	0	3	0	2	3	3	1	S 40° W	N 59° W	3·7	3·6	+0·1	13	+ 2	46	+ 4	·418	+ ·049	2·9	+1·0	2	+0·3	1·13	0·67	+0·46	1·31	1·90	−0·59	0·72	Raipur.
0	0	1	4	10	4	3	5	4	S 13° E	N 46° E	3·4	2·2	+1·2	33	+ 1	49	+ 5	·521	+ ·101	1·4	0	0	−1·3	0·08	0·98	−0·90	0·11	2·18	−2·07	0·08	Chanda.
16	0	2	0	1	2	5	5	0	S 53° W		2·9			27		72		·666		0·8		1	−0·2	0·25	0·47	−0·22	1·23	1·83	−0·60	0·25	Jagdalpur.
																															XIII.—Hyderabad.
8	2	5	4	3	0	2	5	2	N 29° E		6·9			13		26	− 6	·235	− ·067	0·9	0	0	−0·6	0	0·28	−0·28	2·65	0·19	+1·66	0	Aurangabad.
8	4	1	2	1	4	2	6	3	N 83° W		2·7			20		51	0	·567	+ ·046	0·8	−0·5	0	−1·0	0	0·54	−0·54	1·09	1·33	−0·24	0	Nizamabad.
2	5	7	3	3	5	3	2	1	N 75° E	N 79° E	5·4	5·8	−0·4	17	− 4	47	+ 2	·488	+ ·024	0·1	−0·8	0	−0·8	0	0·36	−0·36	0·02	0·89	−0·87	0	Gulbarga.
0	1	2	1	2	8	8	6	3	S 43° W	S 3° W	5·2	5·3	−0·1	49	+21	40	− 7	·456	− ·034	1·1	−0·2	0	−0·5	0	0·25	−0·25	0·57	0·75	−0·18	0	Raichur.
12	0	0	5	5	1	3	3	2	S 21° E	S 47° E	3·1	3·1	0	20	+ 8	63	+ 8	·597	+ ·093	0·9	−0·5	0	−1·6	0	0·66	−0·66	1·67	1·31	+0·36	0	Hyderabad (Deccan).
11	0	0	0	14	6	0	0	0	S 32° E		4·6			62		69	+ 6	·690	+ ·095	3·2	+1·2	1	+0·3	0·19	0·28	−0·09	0·38	1·18	−0·80	0·19	Hanamkonda.
																															XIV.—Mysore.
14	0	0	0	1	2	5	7	2	S 67° W	S 56° W	2·9	4·7	−1·8	40	+ 3	45	− 5	·440	− ·041	0·9	−0·1	0	−0·6	0	0·24	−0·24	0·62	0·81	−0·19	0	Chitaldrug.
12	0	4	7	4	1	0	3	0	S 84° E	S 37° E	3·0	2·2	+0·8	32	+ 9	73	+ 8	·581	+ ·049	3·7	+1·7	0	−0·5	0	0·25	−0·25	0·72	1·21	−0·49	0	Hassan.
1	1	0	5	7	8	6	3	1	S 7° E	S 12° E	5·3	3·6	+1·7	53	+ 3	63	− 1	·529	+ ·004	1·9	+0·5	1	+0·1	0·18	0·55	−0·37	1·90	1·42	+0·48	0·17	Bangalore.
13	0	0	2	1	4	8	2	1	S 81° W	S 39° W	3·7	5·8	−2·1	40	+ 2	66	− 3	·595	+ ·008	2·3	−0·3	1	+0·5	0·45	0·26	+0·19	1·08	0·90	+0·18	0·45	Mysore.
																															XV.—Madras.
1	3	4	22	1	0	0	0	0	N 79° E	N 70° E	5·1	2·2	+2·9	82	+4	74	+ 1	·826	+ ·062	1·8	−0·3	0	−0·2	0	0·09	−0·09	1·35	0·68	+0·67	0	Mangalore.
15	1	7	1	3	0	1	0	3	N 45° E	N 42° E	6·1	7·7	−1·6	27	−20	80	+ 4	·869	+ ·054	1·9	0	0	−0·8	0	0·52	−0·52	3·49	2·21	+1·28	0	Calicut.
10	0	11	8	2	0	0	0	0	N 71° E	N 31° E	4·9	5·0	−0·1	59	−16	73	− 4	·834	+ ·001	2·6	+0·4	2	−0·7	0·73	2·01	−1·28	3·89	5·19	−1·30	0·43	Cochin.
14	2	15	0	0	0	0	0	0	N 41° E	N 24° E	3·1	4·0	−0·9	56	+ 9	80	+ 4	·821	+ ·037	5·5	+3·2	2	−0·5	1·39	1·62	−0·23	13·54	5·28	+8·26	0·87	Trivandrum.
6	0	11	13	0	1	0	0	0	N 72° E	S 89° E	4·4	5·4	−1·0	72	+ 3	74	− 3	·832	− ·021	2·4	−0·4	0	−1·1	0	0·48	−0·48	23·03	10·70	+12·33	0	Pamban.
5	6	9	5	0	1	1	1	3	N 31° E	N 20° E	3·6	2·8	+0·8	49	− 1	74	0	·807	+ ·023	5·5	+3·8	0	−0·7	0	0·47	−0·47	6·90	3·13	+3·77	0	Madura.
9	6	6	3	2	2	2	0	1	N 49° E		3·1			29		73	− 2	·775	+ ·018	4·7	+0·6	0	−0·9	0	0·27	−0·27	0	4·40	−4·40	0	Pudukkottai.
8	1	3	8	7	1	1	0	2	S 81° E	S 85° E	7·9	4·6	+3·3	48	+ 7	72	− 3	·800	− ·025	4·2	+0·2	0	−0·7	0	0·37	−0·37	25·25	14·50	+10·75	0	Negapatam.
4	6	12	3	1	1	1	1	2	N 37° E	N 31° E	2·1	2·8	−0·7	58	+31	74	+ 1	·817	+ ·069	3·8	+1·2	0	−0·6	0	0·43	−0·43	11·82	4·27	+7·35	0	Trichinopoly.
9	3	12	6	0	0	0	0	0	N 51° E	N 84° E	2·6	2·1	+0·5	62	+22	75	− 4	·711	− ·012	2·6	−1·0	0	−1·0	0	0·51	−0·51	3·71	2·60	+1·11	0	Coimbatore.
8	0	18	5	0	0	0	0	0	N 54° E	N 66° E	4·7	3·9	+0·8	72	+32	72	0	·793	− ·027	1·7	−0·2	0	−1·0	0	0·53	−0·53	3·11	2·12	+0·99	0	Salem.
14	0	0	0	0	0	9	2	6	S 86° W	N 86° W	5·3	1·8	+3·5	43	− 7	82	− 1	·852	+ ·005	4·2	+1·9	0	−0·3	0	0·19	−0·19	24·06	10·04	+14·02	0	Cuddalore.
20	0	0	0	0	1	0	1	0	S 45° W		2·6			5		80	+ 4	·735	+ ·056	1·4	−0·4	0	−0·3	0	0·35	−0·35	6·21	5·14	+1·07	0	Vellore.
20	0	0	0	0	5	6	0	0	S 25° W	S 26° W	2·9	4·5	−1·6	38	−21	80	+ 1	·842	+ ·027	2·1	−0·3	0	−0·3	0	0·16	−0·16	13·02	7·57	+5·45	0	Madras.
3	0	4	5	13	5	0	0	1	S 57° E	S 72° E				62	+ 5	59	+ 1	·672	+ ·013	1·3	+0·1	0	−0·2	0	0·19	−0·19	3·86	1·64	+2·22	0	Cuddapah.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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 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	28·445	−·016	29·839	28·520	6th	28·330	30th	83·3	69·8	101·5	+1·0	73·7	+1·5	87·6	+1·3	27·9	105·3	30th & 31st.	68·5	1st
	Kurnool	923	28·989	−·014	29·850	29·063	6th	28·855	30th	80·3	69·7	101·3	+0·4	75·1	+3·6?	88·2	+2·0?	26·1	104·9	31st	67·4	4th
38	Nellore	66	29·867	−·017	29·868	29·929	20th	29·753	30th	80·4	76·4	93·7	−1·6	74·4	+1·9	84·0	+0·1	19·3	98·7	31st	71·8	19th
	Masulipatam	15	29·937	−·015	29·887	30·014	6th	29·824	30th	81·8	77·0	90·9	−0·3	73·8	+1·4	82·3	+0·6	17·1	95·3	13th	67·7	22nd
	Cocanada	26	29·934	−·007	29·896	30·013	6th	29·825	30th	80·6	75·7	92·6	+0·6	74·3	+0·7	83·5	+0·7	18·3	98·0	13th	69·8	1st
	Vizagapatam	38	29·907	−·008	29·884	29·991	6th	29·799	30th	81·9	75·4	88·1	+1·1	77·6	+2·8	82·9	+1·9	10·5	94·1	15th	73·9	7th
	Calingapatam	19	29·924		29·880	30·038	6th	29·820	30th	81·7	75·8	92·0		75·6		83·8		16·4	95·0	12th & 13th.	70·8	6th, 2nd
	Gopalpur	56	29·859	−·016	29·855	30·034	6th	29·750	30th	79·8	75·6	87·8	+1·2	75·8	+2·8	81·8	+2·0	12·0	90·9	13th	67·3	
	Bay Stations.																					
1	P. V. Fraser	8	29·897		29·877	30·033	6th	29·795	30th	80·2	75·9											
	Port Blair	58	29·877	−·023	29·865	29·967	6th	29·810	23rd	81·9	76·9	89·0	−1·8	78·2	+1·8	83·6	+0·1	10·8	90·8	20th	74·3	16th
	Table Island	90	29·875	−·025	29·900	29·971	6th	29·794	30th	80·8	75·4	87·1	+0·2	77·3	+1·0	82·2	+0·6	9·8	89·5	28th & 29th.	71·2	30th
	Kashmir.																					
18	Muzaffarabad		27·614			27·712	4th	27·508	14th	52·4	48·3	67·9		46·2		57·0		21·7	80·0	30th	29·1	9th
	Srinagar	5,204	24·891	−·034	24·963	25·056	16th	24·585	8th	40·7	39·0	51·6	−4·2	36·8	−0·5	44·2	−2·3	14·8	62·1	31st	22·2	9th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·754	−·021	20·722	21·009	6th	20·444	9th	15·5		30·0	−8·6	6·8	+2·7	18·4	−0·5	23·2	38·1	26th	−12·6	22nd
	Leh	*11,562*	19·613	−·053	19·581	19·852	6th	19·366	8th	27·4		41·2	−3·1	22·2	+1·4	31·8	−0·9	19·0	49·6	18th	12·4	1st
	Skardu	*7,506*	22·848	−·038	22·815	23·122	6th	22·536	8th	34·9	33·8*	46·2	−3·8	31·7	−1·0	39·0	−2·4	14·5	54·2	27th	27·2	1st
	Gilgit	4,890	25·177	+·004	25·150	25·396	1st	24·920	18th	47·5	40·7†	59·9	−1·7	43·6	−2·4	51·3	−2·1	17·2	68·7	1st & 31st.	36·7	22nd
	Baluchistan.																					
15	Fort Sandeman	4,614	25·389		25·328	25·493	16th	25·176	8th	50·3	43·3	71·5		44·9		58·2		26·6	86·5	31st	35·4	20th
	Quetta	5,502	24·635	−·025	24·595	24·749	6th	24·473	9th	42·1	40·3‡	64·1	+0·4	38·5	−0·7	51·3	−0·1	25·6	81·7	25th	29·7	21st
	Chaman	4,311	25·680	−·025	25·642	25·836	20th	25·500	31st	51·5	45·8	66·7	+3·6	43·8	+0·5	55·2	+2·1	22·9	81·7	31st	31·4	28th
	Kalat	6,630	23·711		23·672	23·822	6th	23·580	13th	40·5	39·5§	61·0		35·31		48·2		25·7	79·2	25th	26·3	5th
	Dalbandin	2,772	27·142		27·105	27·324	20th	26·979	31st	54·1	47·5	77·5		48·8		63·2		28·7	95·5	25th	39·3	5th
	Pasni		29·911		29·871	30·048	16th	29·745	27th	68·7	64·6	88·5		56·8		72·6		31·7	98·5	27th	48·7	4th
	Panjgur	3,177	26·742		26·700	26·875	20th	26·639	31st	55·5	49·2	78·9		51·5		65·2		27·4	92·8	25th & 30th.	40·2	14th
	Seistan (*e*)		28·237			28·490	20th	27·990	31st	51·5	45·4	71·3		47·2		59·3		24·1	88·5	31st	38·8	30th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·409	−·035	24·385	24·555	16th	24·198	8th	46·6	39·6	61·0	+2·9	38·2	−0·2	49·6	+1·3	22·8	71·4	26th	30·3	5th
	Cherat	*4,956*	25·687	−·031	25·655	25·842	16th	25·448	8th	50·4	46·5†	58·9	−1·6	46·1	−0·8	52·5	−1·2	12·8	71·7	31st	38·0	8th
	Drosh (*e*)	4,500	25·070			25·200	6th, 16th & 28th.	24·880	8th & 14th.	44·8	38·4‡	57·9	−0·7	40·6	+1·2	49·3	+0·3	17·3	67·1	31st	29·0	8th
	Murree	8,181	23·922	−·042	23·892	24·075	16th	23·717	8th	45·5	40·7‖	51·6	−5·5	40·5	−1·6	46·1	−3·5	11·1	61·8	31st	29·0	8th & 9th.

N.B.—Elevations in italics indicate barometrical determinations.
(*e*) Aneroid.

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

* Mean of 11 days.
† " " 20 "
‡ " " 26 "
§ " " 18 "
‖ " " 29 "

B—*continued.*

stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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.*
12	1	0	0	2	2	4	6	4	S 78° W	S 45° W	3·0	3·4	−0·4	33	+22	50	+ 3	·568	+·076	0·7	−0·8	0	−0·6	0	0·22	−0·22	0·25	0·52	−0·27	0	Bellary.
26	0	1	0	1	1	2	1	0	S 23° W	E	1·9			7	− 4	58	+ 5	·589	+·043	0·2	−0·9	0	−0·6	0	0·28	−0·28	0·83	0·84	−0·01	0	Kurnool.
0	0	0	0	0	18	3	1	0	S 7° E	S 32° E	4·3	4·7	−0·4	86	+18	83	+ 2	·854	+·046	2·6	−0·2	0	−0·3	0	0·15	−0·15	14·23	4·86	+9·37	0	Nellore.
2	1	7	1	7	11	1	1	0	S 40° E	S 20° E	4·6	4·0	+0·6	46	+ 3	80	− 3	·864	0	2·7	−0·8	0	−0·4	0	0·29	−0·29	1·40	1·85	−0·45	0	Masulipatam.
22	0	0	1	2	2	1	1	2	S 15° W	N 52° W	4·7	4·7	0	7	−36	79	+ 2	·820	+·042	4·2	+1·4	0	−0·8	0	0·52	−0·52	0·34	1·98	−1·64	0	Cocanada.
1	1	1	1	1		3	16	7	N 80° W	S 88° W	8·4			69	− 6	73	0	·792	+·061	4·5	+1·6	1	+0·4	0·37	0·35	+0·02	1·76	2·64	−0·88	0·37	Vizagapatam.
2	2	0	0	0	2	12	11	2	S 72° W		6·8			71		75		·813		2·0		0	−0·6	0·06	0·52	−0·46	0·75	2·39	−1·64	0·06	Calingapatam.
0	4	1	0	0	6	16	2	2	S 53° W	S 89° W	11·3	10·1	+1·2	56	+14	82	+ 4	·883	+·093	1·3	+0·5	2	+0·9	1·11	0·57	+0·54	1·11	2·11	−1·00	0·84	Gopalpur.
																															Bay Stations.
1	1	0	0	1	5	18	5	2	S 45° W					71		81		·835		2·4		3	+1·5	1·61	1·03	+0·58		3·14		0·71	P. V. Fraser.
0	7	6	3	3	0	0	0	7	N 34° E	N 22° W	4·0	3·1	+0·9	56	+16	79	− 5	·857	+·002	5·3	+2·1	0	−0·9	0·12	0·71	−0·59	15·39	10·15	+5·24	0·09	Port Blair.
1	10	8	3	1	0	0	0	6	N 10° E		5·7			72		77	0	·810	+·016	2·3	−3·1?	0	−0·4	0	0·16	−0·16	0·76	3·47	−2·71	0	Table Island.
																															Kashmir.
22	0	2	1	0	0	6	0	0	S 34° W		2·1			13		74		·289		5·3		11	+3·5	9·83	4·05	+5·78		15·39		2·60	Muzaffarabad.
10	0	0	0	8	0	1	0	6	N 10° E	S 3° W	2·5	3·5	−1·0	13	+ 5	87	− 1	·220	−·010	8·6	+2·5	9	+1·0	7·54	3·55	+3·99	15·24	10·68	+4·56	2·76	Srinagar.
24	1	2	0	0	0	1	2	1	N 41° W		1·0			10																	Gulmarg.
																				7·5	+1·8	14	+3·7	8·49	3·61	+4·88	18·72	10·89	+7·83	1·90	Dras.
	0	4	2	2	1	0	0	0	N 86° E	S 63° W	1·8	1·5	+0·3	20	0					6·7	+0·4	1	−0·1	0·31	0·30	+0·01	1·49	1·17	+0·32	0·13	Leh.
6	0	2	0	0	2	7	12	1	S 70° W		4·2			56		79*	0	·168*	−·006	7·3	+0·7	3	+0·2	1·31	0·83	+0·48	3·72	2·98	+0·74	0·47	Skardu.
	0	0	0	0	0	6	0	2	S 68° W		0·5			23		55†	+ 7	·176†	+0·07	6·8	0	3	+1·6	0·64	0·43	+0·21	1·44	1·00	+0·44	0·28	Gilgit.
																															Baluchistan.
	0	0	0	0	2	2	2	0	S 45° W		4·0			13		55		·203		3·7		1	−3·7	0·39	1·78	−1·39	2·09	4·06	−1·97	0·21	Fort Sandeman.
	3	3	1	1	3	0	1	1	N 45° E	S 12° W	2·7	2·9	−0·2	10	− 1	69‡	+ 6	·203‡	−·010	4·5	+1·2	5	+0·1	1·61	1·90	−0·29	4·54	6·78	−2·24	0·73	Quetta.
12	0	0	2	10	6	1	0	0	S 31° E	S 31° E	2·5	7·2	−4·7	33	+ 2	66	+ 8	·249	+·034	5·1	+0·6	4	−0·5	2·03	1·58	+0·45	5·75	5·71	+0·04	1·05	Chaman.
10	1	1	0	0	4	5	0	2	S 43° W	S 22° W	5·4			17	−43	61§	− 3	·183§	−·015	4·1		5	+2·1	1·34	0·95	+0·39	4·42	4·47	−0·05	0·46	Kalat.
	0	7	3	1	0	1	2	0	N 54° E		4·3			20		61		·255		4·5		3	+1·3	1·09	0·37	+0·72	3·19	2·79	+0·39	0·50	Dalbandin.
8	4	1	1	0	0	1	4	13	N 48° W		4·3			53		80		·351		2·1		1	−0·2	0·32	0·47	−0·15	5·32	5·01	+0·31	0·33	Pasni.
6	2	12	7	0	0	1	0	1	N 59° E		4·8			56		62		·181		1·7		3		0·80			2·81			0·38	Panjgur.
0	2	2	1	0	0	2	1	17	N 41° W		7·5			59		61		·185		3·3		1		0·34			1·84			0·34	Sibi.
																															Hill stations, including Kashmir and Baluchistan.
1	0	0	0	0	0	0	0	0	Calm.		0·5					55	− 9	·170	−·034	3·1	−1·4	7	−1·9	2·31	4·43	−2·12	7·95	10·05	−2·10	0·68	Murree.
19	0	0	0	0	0	0	0	1	N 4° W	N 10° W	4·5	10·4	−5·9	68	+10	74†	+17	·273†	+·064	3·5	−0·7	6	0	6·79	4·24	+2·55	18·51	11·55	+6·96	2·81	Chakrata.
0	3	0	1	0	0	0	0	0	N 88° E		3·7			37		57†	−12	·162†	−·036	3·9	−0·8	7	+0·1	2·70	2·95	−0·25	6·02	6·01	+0·02	0·78	Dwala.
2	4	1	0	0	0	0	2	0	S 81° E	S 83° E	5·5	6·6	−1·1	20	− 2	60‖	+ 4	·185‖	+·008	5·4	+0·6	9	+1·9	7·65‖	4·54	+3·10	25·79	14·99	+1·48	1·99	Shillong.

[illegible] or plateau stations, the elevations of which exceed 2,500 feet.

* Mean of 11 days.
† " " 30 "
‡ " " 26 "
‖ " " 18 "
‖ " " 29 "

Table

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

Number of sub-division.	Station.	Height of barometer 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
	Hill stations excluding Kashmir and Baluchistan—*concld.*																					
	Simla	7,233	23·076	−·014	23·038	23·175	25th	22·954	8th	47·4	38·7	53·6	−1·9	41·5	−2·4	47·5	−2·1	12·1	60·4	25th	33·1	9th
	Chakrata	6,922	23·331	P	23·290	23·431	20th	23·223	9th	48·0	41·5	58·7	−2·2	41·3	−2·4	50·0	−2·3	17·4	65·3	14th & 27th.	33·0	15th
	Mukteswar	7,592	22·838	−·014	22·797	22·944	19th	22·733	23rd	45·3	38·4	57·0	−2·2	37·6	−5·3	47·3	−4·3	19·4	63·7	3rd	31·2	29th
	Darjiling	7,482	22·932	−·021	22·887	23·039	6th	22·757	11th	46·3	43·9	56·3	0	41·9	−0·2	49·1	−0·1	14·4	63·7	22nd	37·8	7th
	Shillong	4,920	25·145	+·010	30·007	25·254	6th	24·995	11th	58·0	51·4	68·3	−1·9	51·6	+0·9	59·9	−0·5	16·7	76·3	22nd	45·1	16th
	Cherrapunji	4,309	25·720	+·005	25·671	25·821	6th	25·593	11th	58·5	54·5	64·9	+2·2	53·4	−0·5	59·1	−1·3	11·5	73·0	22nd & 28th.	45·0	27th
	Netarhat	...	26·064		26·013	26·072	11th	26·047	29th	67·6	54·3	75·1		51·6		63·3		23·5	90·2	28th	41·3	23rd
	Maymyo	3,546	26·466	−·004	26·405	26·647	27th	26·362	30th	60·7	57·5	80·0	−0·5	53·1	+3·0	67·0	+1·3	27·8	85·8	28th	45·6	9th
	Pachmarhi	3,528	26·462	−·042	26·412	26·530	6th	26·360	8th	70·2	56·8	84·9	+0·6	61·1	+1·1	73·0	+0·9	33·8	91·0	26th & 27th.	52·1	7th
	Mount Abu	3,945	26·061	−·027	26·011	26·194	6th	25·894	8th	69·3	52·0	76·9	0	62·6	+1·4	69·8	+0·7	14·3	85·0	26th	50·8	14th
	Mercara	3,781	26·247	−·021	26·180	26·317	6th	26·183	23rd & 30th.	68·9	62·5	86·0	+1·4	61·3	−0·3	73·6	+0·5	24·7	89·0	26th & 28th.	58·2	2nd
	Ootacamund	7,327	23·098	+·013	23·054	23·154	9th	23·048	30th	61·0	50·9	71·5	+2·2	47·9	−0·1	59·7	+1·1	23·6	75·8	22nd	43·4	1st
	Kodaikanal	7,698	22·855	−·015	22·790	22·904	6th	22·805	27th	60·7	47·1	72·8	+4·3	49·8	−1·0	61·3	+1·7	23·0	74·6	7th	44·2	1st
	Extra India.																					
	Singapore (a)	10	29·858	−·087	29·789	29·959	7th	29·791	27th & 31st.	84·7		89·4	+0·7	74·4	+1·1	81·9	+0·9	15·0	93·0	10th	73·0	15th & 30th.
	Penang (e)	17	29·850	−·070	29·792	29·891	7th	29·811	31st	83·5		91·8	+0·3	72·8	−1·2	82·3	−0·5	19·0	94·0	20th	71·5	31st
	Trincomalee	99	29·850	−·003	29·878	29·931	6th	29·776	30th	78·3	75·4	91·5	+3·4	77·0	+1·0	84·3	+2·2	14·5	94·9	24th	74·0	18th
	Colombo	24	29·908	−·024	29·857	30·001	6th	29·832	30th	75·1	73·9	88·4	−1·3	74·3	−0·7	81·3	−1·0	14·1	98·0	27th	72·6	1st, 3rd, 7th.
	Hambantota	64	29·865		29·855	29·964	6th	29·795	28th	75·4	72·9	86·7		74·4		80·5		12·3	89·5	26th	69·8	7th
	Minicoy †	7	29·962	+·006		30·083	14th	29·890	27th													
	Amini Divi	13	29·933	−·028	29·874	30·018	6th	29·853	27th	84·4	77·0	92·1	+3·3	77·6	0	84·9	+1·7	14·5	94·0	8th & 24th.	72·5	1st
	Gyantse	13,110																				
	Phariong	14,400																				
	Gangtok	5,760	24·267*	−·202	24·321*	24·381	6th	24·099	11th	51·8	48·3	62·7	−3·6	48·1	+6·4	55·4	+1·4	14·6	69·9	22nd	44·0	9th
	Gartok (e)	15,100																				
	Kashgar (c)	4,255	25·522	−·089		25·980	11th	25·043	7th	39·3	36·2	43·1	−3·0	32·9	−3·0	42·5	−3·0	21·2	58·3	30th	21·8	1st
	Kabul (c)	...																				
	Meshed	3,104								41·3	40·06	59·5	+3·4	35·9	−0·4	47·7	+1·5	23·7	75·4	30th	27·0	26th
	Jask	13	29·926	−·047	29·892	30·071	21st	29·769	27th	70·7	66·2	83·8	+4·6	65·0	−1·6	74·4	+1·5	18·8	90·8	31st	59·4	12th
	Muscat	20	29·955	−·025	29·923	30·099	20th	29·785	28th	76·5	67·7	85·9	+7·5	73·9	+1·9	79·9	+4·7	12·0	97·7	28th	67·3	13th
	Bushire	14	29·967	−·021	29·948	30·135	2nd	29·804	20th	64·2	60·8	74·2	+1·8	63·0	+2·0	68·1	+2·4	13·2	90·8	28th	54·0	2nd
	Busrah	25																				
	Ispahan (c)	5,817	24·240	+·000		24·440	7th	24·050	14th	44·4	40·4	54·2	+3·5	40·3	+3·8	52·2	+3·7	23·9	73·4	29th	31·2	19th
	Teheran (c)	4,009	25·735	−·094		26·000	7th	25·500	14th & 15th.	50·4	43·9	61·5	+2·9	42·1	+3·5	51·8	+3·2	19·4	73·5	30th	33·0	20th
	Bushire	127	29·918	+·032	30·025	30·302	20th	29·568	14th	54·3	50·4	72·0	−0·9	53·0	+3·0	62·3	+1·1	19·4	79·4	21st	46·1	17th
	Aden	94	29·878	−·021	29·904	29·995	7th	29·765	20th	76·5	71·1	83·9	+0·3	76·1	+1·9	78·1	+0·5	9·8	87·0	4th	67·0	2nd & 3rd
	Zanzibar	73	29·911	+·002	29·910	29·997	7th	29·814	24th	82·0	77·2	87·2	+1·0	82·3	+0·9	84·0	+0·9	7·4	91·0	27th	75·8	17th

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

(a) 9 hrs. observations.

(c) Aneroid.

* Mean of 20 days.

† " 29 "

‡ " 27 "

§ " 25 "

Note.—The barometric readings are not reduced to sea-level in

B—*concluded.*

stations in India, etc., in March, 1920—*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 Dec. 1919 to 31st March 1920.	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.*
																46	+ 1	·147	+ ·002	4·9	+ 0·7	7	+ 2·0	3·60	2·69	+ 0·91	8·99	9·98	− 0·99	1·04	Simla.
1	1	21	6	1	0	0	1	0	N 53° E	N 13° E	9·2	5·2	+ 4·0	82	+ 43	60	+ 6	·197	+ ·022	5·0	+ 2·1	7	+ 2·1	2·68	3·09	− 0·41	9·81	13·40	− 3·59	0·79	Chakrata.
2	3	1	9	1	1	0	14	0	N 60° W		6·0			13		55	+ 9	·161	− ·002	5·6	+ 2·0	9	+ 4·8	3·20	2·24	+ 0·96	5·05	7·92	− 2·87	1·08	Mukteswar.
14	1	2	0	3	1	4	6	0	S 56° W	S 37° E	4·1	5·5	− 1·4	20	+ 9	84	+ 11	·261	+ ·014	7·1	+ 3·5	6	+ 2·3	2·14	1·83	+ 0·31	2·83	3·83	− 1·00	0·68	Darjiling.
10	0	0	0	0	7	13	1	0	S 32° W		4·0			62		64	+ 12	·304	+ ·045	4·9	+ 2·6	5	0	3·32	2·23	+ 1·09	4·66	4·23	+ 0·43	1·75	Shillong.
10	0	0	1	1	5	9	4	1	S 29° W		5·9			46		78	+ 8	·377	+ ·018	6·6	+ 2·9	15	+ 7·7	18·68	9·12	+ 9·56	20·50	13·18	+ 7·32	7·25	Cherrapunji.
0	0	2	1	0	2	13	8	5	S 72° W		4·7			61		40		·274		0·5		2		1·67						1·25	Netarhat.
25	0	0	0	0	0	3	3	0	S 68° W		1·6			17		78	+ 8	·412	− ·010	2·1	+ 0·5	0	− 1·1	0·04	0·57	− 0·53	1·37	1·49	− 0·12	0·03	Maymyo.
3	2	2	4	2	2	4	5	7	N 71° W	N 3° W	4·2	3·7	+ 0·5	23	+ 19	43	+ 7	·311	+ ·040	0·8	− 0·9	1	− 0·1	0·48	0·51	− 0·03	2·73	2·22	+ 0·51	0·40	Pachmarhi.
4	3	4	0	0	0	11	7	2	S 88° W	N 23° W	5·3	5·3	0	42	+ 14	28	− 8	·195	− ·037	1·9	− 0·2	0	− 0·5	0	0·19	− 0·19	0·23	0·92	− 0·69	0	Mount Abu.
19	4	3	2	1	1	0	0	1	N 39° E	N 22° E	2·2	2·7	− 0·5	23	+ 1	70	+ 1	·491	− ·004	1·7	− 1·5	1	− 0·6	0·18	0·65	− 0·47	0·49	1·77	− 1·28	0·18	Mercara.
4	1	1	12	11	2	0	0	0	S 68° E		3·4			69		51	+ 4	·272	+ ·034	3·1	+ 1·2	2	− 0·4	0·79	1·25	− 0·46	7·86	5·38	+ 2·48	0·62	Ootacamund.
0	11	15	4	1	0	0	0	0	N 37° E		9·2			82		86	− 11	·186	− ·013	2·0	+ 0·2	0	− 3·3	0·10	2·35	− 2·25	13·64	11·16	+ 2·48	0·08	Kodaikanal.
																															Extra India.
5	1	22	0	1	0	0	0	2	N 40° E					72						6·0	+ 1·5	9	+ 0·1	5·98	7·58	− 1·60	34·46	38·29	− 1·83	2·01	Singapore.
0	21	10	0	0	0	0	0	0	N 14° E					96						4·9	+ 4·4	8	+ 1·1	4·21	4·04	+ 0·17	9·72‖	17·88	− 8·16	1·46	Penang.
6	0	2	4	0	3	11	5	0	S 38° W	S 37° W	4·3	4·1	+ 0·2	37	+ 14	88	+ 3	·844	− ·028	6·2	+ 3·5	5	+ 2·8	1·33	1·49	− 0·16	24·86	23·27	+ 1·59	0·36	Trincomalee.
23	0	5	2	1	0	0	0	0	N 65° E	S 58° E	2·6	3·9	− 1·3	33	− 9	94	+ 15	·819	− ·032	5·5	+ 2·4	8	+ 2·3	6·60	4·30	+ 2·30	20·62	15·49	+ 5·13	1·83	Colombo.
2	22	7	0	0	0	0	0	0	N 10° E		6·5			92		88		·775		4·9		6		5·36	2·05	+ 3·31	15·70	12·44	+ 3·26	2·20	Hambantota.
9	15	2	0	0	0	0	0	3	N 3° W	N 20° W	2·1	3·0	− 1·8	66	+ 9					3·0	+ 0·2	1	− 0·6	1·40	0·97	+ 0·43	9·52	6·89	+ 2·63	1·40	Minicoy.
1	10	5	0	0	0	1	2	12	N 21° W		5·1			71		70	− 3	·827	− ·010	3·2	0	0	− 0·1	0	0·04	− 0·04	6·61	1·68	+ 4·93	0	Amini Divi.
																															Gyantse.
																															Pharijong.
27	1	1	1	0	1	0	0	0	N 69° E		1·3			6		82	+ 8	·311	+ ·002	6·9	+ 4·7	14	+ 5·7	6·48	4·99	+ 1·49		9·73		1·68	Gangtok.
																															Gartok.
22	2	3	0	0	0	0	1	3	N 9° W	N 1° W	1·5	1·8	− 0·3	19	+ 11	66*	+ 9	·166*	+ ·013	5·5	+ 0·7	2	+ 1·3	0·83	0·33	+ 0·50		0·81		0·58	Kashgar.
										N 80° W															3·90			6·97			Kabul.
30	0	0	0	0	1	0	0	0	S		2·0			3		79†	+ 1	·228†	+ ·004	5·4	+ 0·1	4	− 1·1	1·47	2·23	− 0·76	7·89	4·57	+ 3·32	0·65	Meshed.
2	4	5	5	0	0	0	3	12	N 10° W	N 23° E	7·5	8·0	− 0·5	53	+ 17	78	+ 9	·590	+ ·129	2·3	− 0·2	1	− 0·6	0·44	0·72	− 0·28	6·97	3·66	+ 3·31	0·41	Jask.
14	1	0	0	0	0	0	0	16	N 43° W	N 72° W	3·0	3·4	− 0·4	53	+ 23	62	− 6	·562	− ·021	1·7	− 0·6	0	− 1·7	0·08	0·65	− 0·62	0·82	3·22	− 2·40	0·02	Muscat.
2	6	3	1	0	0	0	3	16	N 30° W	N 41° E	7·5	6·2	+ 1·3	72	+ 32	79	+ 1	·487	+ ·058	5·1	+ 1·2	0	− 2·2	0	1·03	− 1·03	10·91	8·66	+ 2·25	0	Bushire.
																									1·09			4·46			Busrah.
24	0	0	0	0	1	1	4	1	S 79° W	S 82° W	2·6	4·6	− 2·0	16	− 28	70‡	+ 5	·211‡	+ ·043	2·7	− 0·7	2	− 1·0	0·25	1·05	− 0·80	4·20	2·94	+ 1·26	0·15	Ispahan.
22	1	2	1	1	1	2	0	0	S 63° E	N 14° E	3·8§	2·8	+ 1·0	7	− 15	59	− 11	·217	+ ·028	4·0	0	5	− 0·4	1·55	1·91	− 0·36	7·66	5·81	+ 1·85	0·62	Tehran.
5	11	1	2	1	1	3	1	6	N 17° W	N 11° W	4·6	2·9	+ 1·7	43	+ 19	75	+ 11	·318	+ ·035	4·4	+ 1·7	4	+ 0·5	2·58	1·36	+ 1·22	5·31	4·99	+ 0·32	1·36	Baghdad.
12	2	16	1	0	0	0	0	0	N 43° E	N 82° E	10·5	11·5	− 1·0	56	− 23	76	− 1	·693	− ·040	5·3	+ 0·4	0	− 0·7	0	0·54	− 0·54	0·10	1·22	− 1·12	0	Aden.
4	5	8	1	0	5	5	2	1	N 8° E	S 27° E	4·7	3·9	+ 0·8	10	− 13	78	− 4	·862	− ·032	6·9	+ 0·9	2	− 7·0	1·19	6·50	− 5·31	5·96	17·28	− 11·32	0·89	Zanzibar.

of hill or plateau stations, the elevations of which exceed 5,200 feet.

* Mean of 22 days.
† " " 24 "
‡ " " 30 "
§ " " 29 "

‖ Rainfall for February, wanting.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in March, 1920.

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: 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
	II.—Assam.																								
	Bishnath	65·2	62·4	78·4	−3·6	45·7	−9·5	62·1	−6·5	32·7	87·1	20th	39·7	5th & 9th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	67·8	64·3	91·9	+8·6	57·8	+0·8	74·9	+4·7	34·1	95·4	15th	45·6	10th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	65·5	62·7	83·9	−3·9	52·0	−5·4	67·9	−4·7	31·9	90·5	13th	50·1	1st & 10th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	62·6	60·6	73·8	−0·2	59·9	+3·4	66·9	+1·6	13·9	85·8	26th	57·4	10th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	63·3	61·4	74·5	−3·8	60·1	+2·7	67·3	−0·5	14·4	87·0	26th	55·6	2nd	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	65·0	63·7	77·9	−2·4	58·4	...	68·1	...	19·5	86·1	12th	52·6	2nd	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	68·9	66·2	81·4	−4·3	64·4	+4·2	72·9	−0·1	17·0	90·8	22nd	58·2	8th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	65·0	63·0	77·0	−3·3	61·0	+2·3	69·0	−0·5	16·0	84·9	20th	56·3	8th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	67·6	64·3	82·7	...	59·9	...	71·3	...	22·8	89·9	22nd	51·0	19th	...	...	...	...	...	...	...	...	...	...	...
	Mess	60·3	63·3	83·9	+4·1	59·7	+4·2	71·8	+0·2	24·1	88·5	[illegible]	[illegible]	[illegible]	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	69·8	61·0	79·9	+1·9	56·4	+1·2	68·1	−0·3	23·5	85·1	1st, 20th	51·3	31st	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	71·6	66·2	91·0	+2·9	60·8	−3·1	75·9	−0·1	30·2	93·2	31st & 24th.	58·9	1st & 5th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	74·7	70·5	87·1	−2·6	62·0	+4·9	76·5	+1·1	21·1	98·1	27th	60·4	25th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	73·3	69·8	87·7	−3·9	65·8	+4·1	76·7	+0·1	21·9	97·5	22nd	58·0	7th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	63·6	62·5	80·1	−5·6	59·2	+6·1	69·7	+0·3	20·9	85·9	21st & 26th.	51·8	24th & 31st.	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	70·4	65·9	81·9	−1·8	59·0	+3·9	70·5	+1·1	22·9	88·1	21st	52·5	30th & 31st.	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	69·8	63·6	83·3	−0·3	57·4	−1·8	70·3	−1·1	25·9	88·1	24th, 28th & 31st.	50·0	27th & 29th.	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
6	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.

and fifth class stations in India, etc., in March, 1920.

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 1919 to 31st March 1920.	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.
...	...	...	...	...	85	− 7	·526	+0·06	...	...	14	+9·1	8·50	2·39	+6·11	14·50	5·29	+9·21	2·05	Bishnath.
...	...	...	...	...	83	+ 5	·556	+0·69	...	...	11	+6·4	4·37	1·97	+2·40	8·78	4·27	+4·51	0·77	Borjuli.
...	...	...	...	...	86	− 1	·532	−0·54	...	...	13	+8·1	9·05	3·97	+5·08	12·96	7·57	+5·39	1·50	Chandkhira.
...	...	...	...	...	89	− 5	·504	−0·20	...	...	19	+8·7	11·04	5·55	+5·49	15·30	10·52	+4·78	1·89	Doom Dooma.
...	...	...	...	...	87	− 4	·519	+0·11	...	...	20	+10·6	13·08	4·59	+8·49	17·30	8·99	+8·31	2·25	Dikom.
...	...	...	...	...	93	+ 6	·572	+0·52	...	...	14	+7·7	4·25	2·63	+1·62	6·28	5·91	+0·37	0·68	Golaghat.
...	...	...	...	...	86	− 1	·608	+0·71	...	...	18	+11·2	11·89	5·57	+6·32	14·14	9·46	+4·68	2·10	Hailakandi.
...	...	...	...	...	90	+ 4	·549	+0·32	...	...	15	+8·2	7·38	3·06	+4·32	10·65	6·57	+3·48	1·28	Jorehat.
...	...	...	...	...	84	...	·559	...	...	...	11	+5·6	3·70	2·31	+1·39	...	4·28		0·83	Lumding.
...	...	...	...	...	68	− 9	·509	−0·30	...	...	17	+12·7	5·61	2·24	+3·37	6·73	4·85	+1·88	0·90	Mesa.
...	...	...	...	...	91	+10	·513	+0·98	...	...	14	+9·0	9·82	2·68	+7·14	11·57	4·93	+6·64	1·59	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	10	+6·3	10·20	2·94	+7·26	13·52	4·65	+8·87	2·00	Comilla.
...	...	...	...	...	74	− 5	·569	−0·80	...	...	10	+5·6	9·82	3·66	+6·16	11·58	5·77	+5·81	3·95	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	9	+6·0	12·23	2·07	+10·16	14·71	3·98	+10·73	3·90	Faridpur.
...	...	...	...	...	81	+ 5	·701	+0·88	...	...	11	+7·3	7·31	2·34	+4·97	11·78	4·21	+7·57	2·75	Goalundo.
...	...	...	...	...	84	+ 9	·688	+0·98	...	...	9	+6·2	4·85	1·36	+3·49	7·43	2·79	+4·64	1·23	Pabna.
...	...	...	...	...	...	...	...	...	...	...	9	+6·9	3·21	1·30	+1·91	3·96	2·59	+1·37	0·85	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	7	+5·0	4·59	1·21	+3·38	5·55	2·24	+3·31	1·20	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	3	+1·6	1·53	0·76	+0·77	2·90	2·33	+0·57	0·56	Malda.
...	...	...	...	...	...	...	...	...	...	...	3	+1·0	1·28	1·26	+0·02	2·04	2·33	−0·29	0·61	Rangpur.
...	...	...	...	...	93	+ 5	·551	+0·75	...	...	13	+9·3	6·45	2·13	+4·32	6·68	3·91	+2·77	1·46	Dam Dim.
...	...	...	...	...	77	+ 3	·583	+0·46	...	...	14	+10·5	8·20	1·99	+6·21	8·60	4·16	+4·44	2·02	Kalchini.
...	...	...	...	...	71	− 1	·505	+0·51	...	...	14	+9·8	5·65	2·29	+3·36	6·29	4·65	+1·64	1·54	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	6	+3·0	2·46	2·26	+0·20	3·20	3·53	−0·33	1·15	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	9	+6·6	9·79	1·66	+8·13	11·04	3·54	+7·50	2·84	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	5	+2·7	5·64	1·21	+4·43	7·04	2·85	+4·19	2·25	Bankura.
...	...	...	...	...	...	...	...	...	...	...	7	+4·9	6·56	1·13	+5·43	7·07	2·70	+4·37	1·73	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	3	+0·9	2·62	1·05	+1·57	3·59	3·15	+0·44	1·22	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	5	+3·6	2·18	0·58	+1·60	3·05	1·96	+1·07	1·05	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	2	+0·8	0·67	0·51	+0·16	1·60	1·69	−0·09	0·42	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	1	0	0·26	0·56	−0·30	0·61	1·81	−1·20	0·19	Motihari.
...	...	...	...	...	...	...	...	...	...	...	5	+3·9	1·40	0·38	+1·02	2·29	1·72	+0·57	0·61	Chapra.
...	...	...	...	...	...	...	...	...	...	...	4	+2·8	0·77	0·51	+0·26	2·44	2·09	+0·35	0·23	Arrah.
...	...	...	...	...	...	...	...	...	...	...	3	+1·8	1·02	0·51	+0·51	1·71	2·16	−0·45	0·62	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	71·2	59·2	91·0	...	61·9	...	76·5	...	29·1	96·0	27th	53·7	7th	25	1	3	0	0	1	1	0	0	N 45° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	80·7	74·5	100·5	...	72·2	...	86·3	...	28·3	106·1	31st	64·5	1st	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	80·8	75·2	94·8	...	74·0	...	84·4	...	20·8	99·2	13th	71·0	1st & 14th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	71·0	63·0	89·9	...	64·6	...	77·2	...	25·3	94·0	21st	59·8	6th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car-Nicobor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
19	Jammu	63·5	54·5	76·2	...	57·5	...	66·8	...	18·7	86·4	26th	51·3	22nd	4	15	7	4	0	0	0	0	1	N 21° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	28·4	...	39·7	...	9·9	...	24·8	..	29·8	49·1	16th	—2·3	1st	6	0	0	4	12	4	3	0	2	S 35° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	66·4	60·3	81·6	—1·6	60·2	—0·8	70·9	—1·2	21·4	89·3	21st	53·3	27th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	59·8	58·5	65·8	—1·1	51·8	—1·8	58·5	—1·5	14·5	71·8	26th	43·9	30th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	49·5	+0·8	31·5	+0·4	40·5	+0·6	18·0	58·1	1st	25·2	22nd	9	0	1	7	4	5	5	0	0	S 33° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	65·0	—0·1	32·8	—3·4	48·9	—1·7	32·2	80·7	25th	28·2	31st	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in March, 1920—*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. 1919 to 31st March 1920.	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.
...	...	...	...	...	...	...	...	...	...	...	3	+1·4	1·44	0·64	+0·80	2·90	3·27	− 0·37	0·75	Meerut.
...	...	...	...	...	...	...	...	...	...	...	6	+3·4	1·56	1·26	+0·30	5·05	6·91	− 1·86	0·35	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0		0			1·62			0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·12	−0·12	0·21	0·51	− 0·30	0	Udaipur.
																				XII.—Central Provinces.
2·4	...	...	3	...	47	...	·358	...	2·0	...	2	−0·3	1·61	0·77	+0·84	6·32	2·66	+ 3·66	1·40	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·29	−0·29	0·50	0·80	− 0·30	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	1	−0·8	0·24	0·90	−0·66	9·50	7·21	+ 2·29	0·15	Tinnevelly.
...	...	...	...	...	74	...	·780	...	0·9	...	0	−0·3	0	0·18	−0·18	1·42	0·50	+ 0·92	0	Anantapur.
...	...	...	...	...	76	...	·801	...	...	...	0	−1·0	0	1·64	−1·64	3·09	2·09	+ 1·00	0	Guntur.
...	...	...	...	...	64	...	·483	...	...	...	0	...	0	...	...	0·69	...	...	0	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	0	−2·3	0	1·32	−1·32	14·88	14·59	+ 0·29	0	Car Nicobar.
																				Kashmir.
...	...	...	73	...	54	...	·315	...	4·4	...	7	+2·2	3·31	3·22	+0·09	9·78	10·36	− 0·58	0·96	Jammu.
...	...	...	...	...	...	...	...	...	...	...	18	+3·6	23·39	14·00	+9·39	43·97	40·95	+ 3·02	4·12	Sonamarg.
...	...	...	52	...	...	...	...	...	6·9	...	6	+4·1	2·24	0·95	+1·29	4·28	5·11	− 0·83	0·79	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	−1·8	0·27	1·50	−1·23	2·11	4·89	− 2·78	0·23	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	70	+15	·448	+·055	...	...	10	+6·5	4·13	2·35	+1·78	4·36	4·53	− 0·17	1·26	Panighatta.
...	...	...	...	...	92	+31	·475	+·185	...	...	9	+5·2	3·72	2·82	+0·90	4·73	5·46	− 0·73	1·27	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	19	+7·3	12·90	7·15	+5·75	18·06	14·42	+ 3·64	1·30	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	15	+5·0	11·64	5·93	+5·71	15·38	10·01	+ 5·37	2·00	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	6·32	...	...	14·52	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	4	...	2·10	...	...	...	...	...	0·70	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	10	+5·6	3·71	2·29	+1·42	10·37	9·37	+ 1·00	1·12	Mussooree.
...	...	...	42	...	...	...	...	...	4·9	+0·1	9	+2·9	4·27	3·15	+1·12	8·29	8·34	− 0·05	1·17	Poo.
...	...	...	...	...	...	...	...	...	...	...	12	+4·7	4·79	3·97	+0·82	...	10·76	...	1·04	Kailang.
...	...	...	...	...	...	...	...	...	2·6	...	3	−1·7	1·41	2·06	−0·75	5·56	7·06	− 1·50	0·72	Pishin.

Table

Abstract of observations taken at 8 hrs. at 61 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		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.	Calm.	N.	N. E.	E.	S. E.	S.	S. W.	W.	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.																								
	Chumbi	29·9	35·4*	50·4	...	25·9	...	38·1	...	24·5	57·2	11th	16·2	2nd & 7th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	67·4	58·8	77·1	...	58·0	...	67·5	...	19·1	90·5	29th	49·0	17th	0	18	4	0	0	8	0	0	0	†N 13° E	...

* Mean of 5 days.
† 1 Wind variable.

C—*concluded.*

fifth class stations in India, etc., in March, 1920—*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 1919 to 31st March 1920.	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.
...	...	...	...	...	94*	...	·200*	...	4·8	...	6	+1·0	15·70	2·25	+13·45	...	4·11	...	5·55	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	5	−3·3	2·77	5·90	−3·13	12·64	21·42	−8·78	1·53	Pemba.
...	...	...	43	...	63	...	·386	...	...	...	2	...	0·76	...	...	...	...	...	0·45	Abadan.

SGPI—21—470DGOb—2-12-22—335.

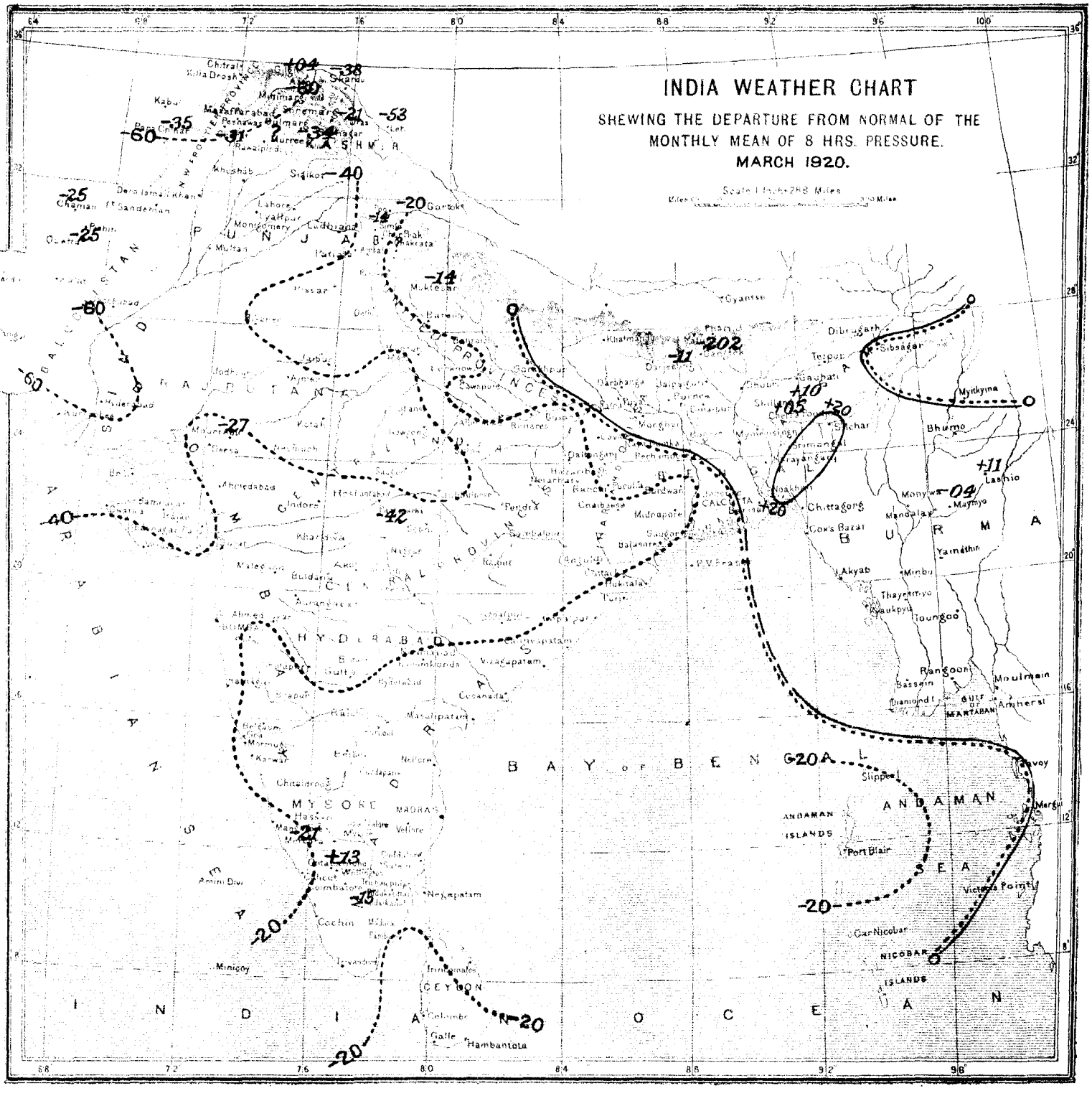
* Mean of 5 days.

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.

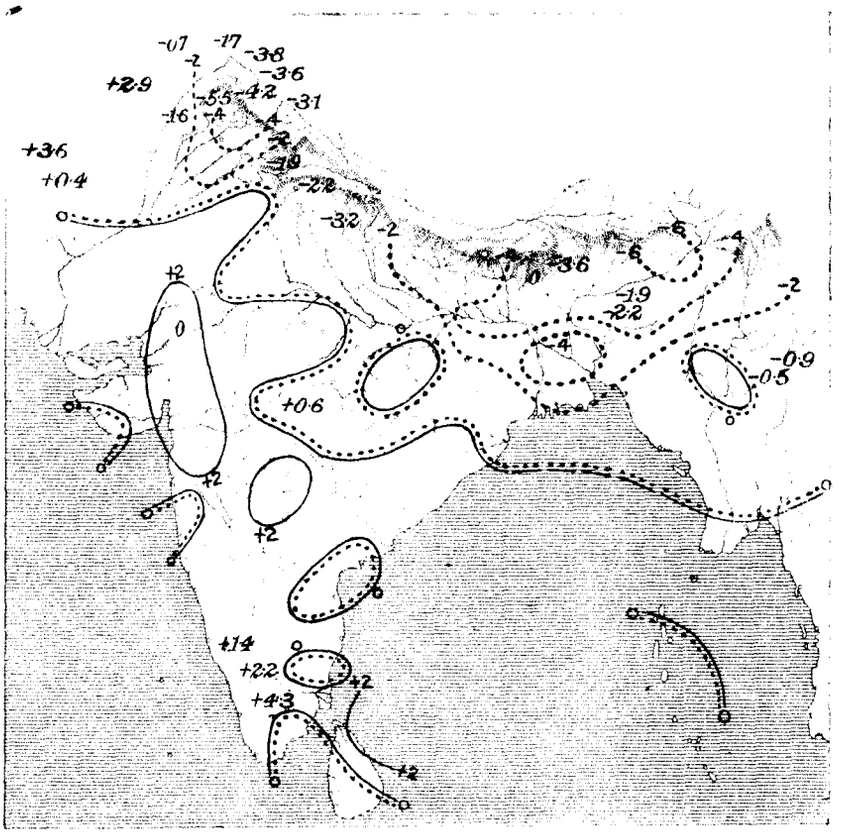


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

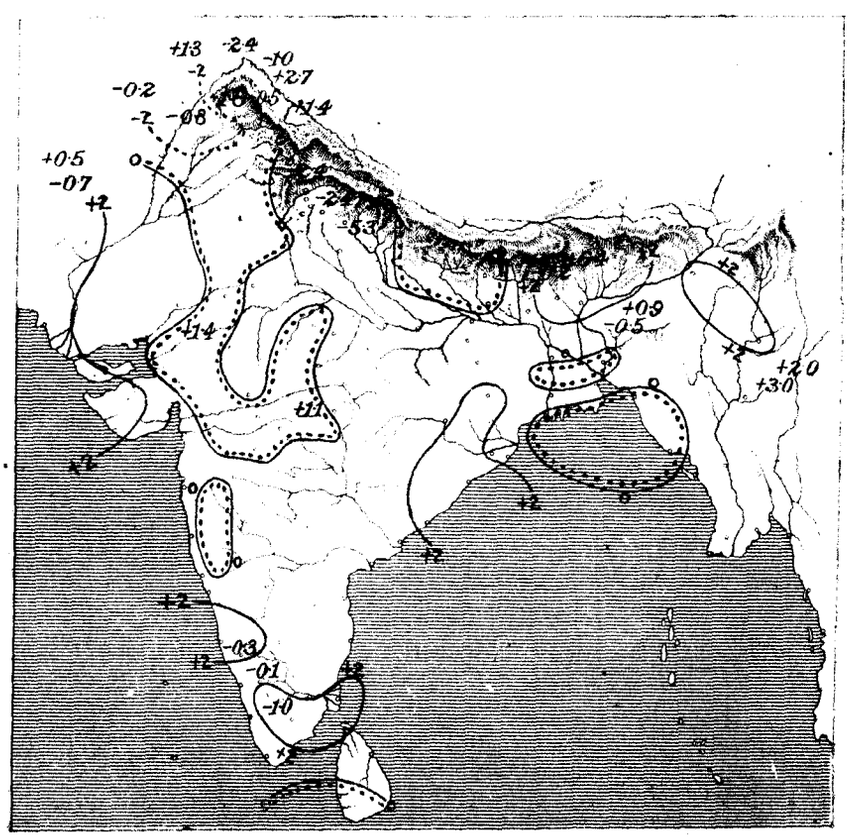


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

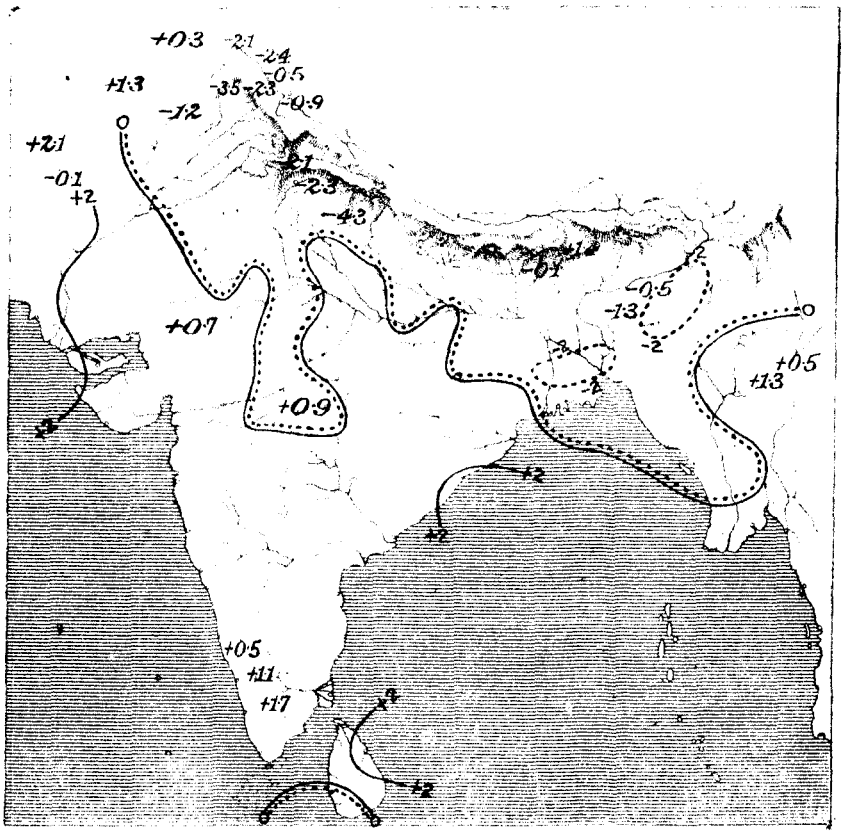


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

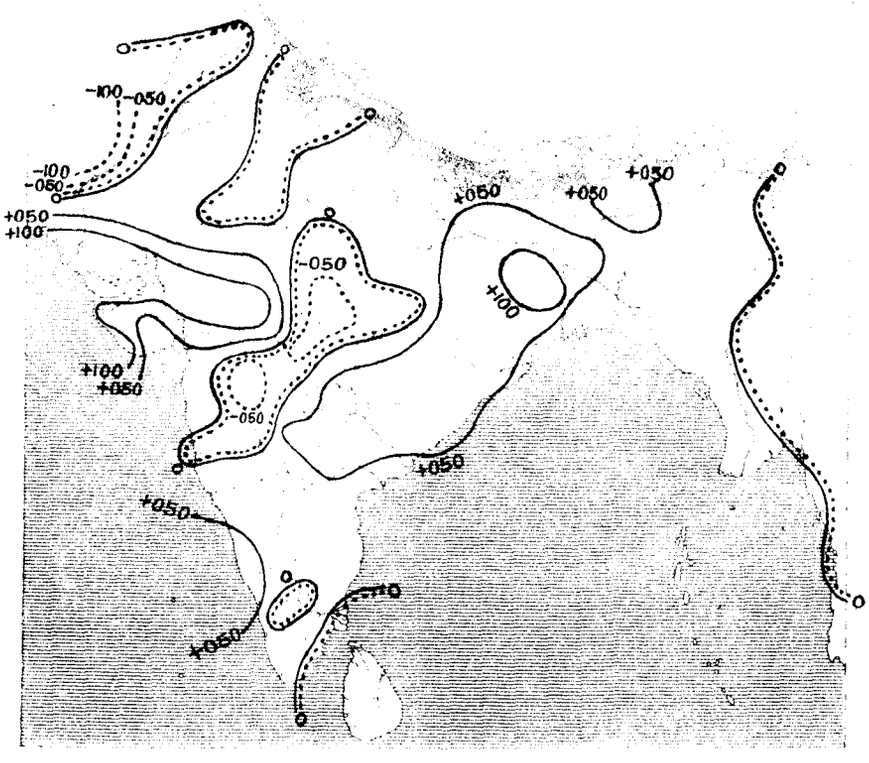


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

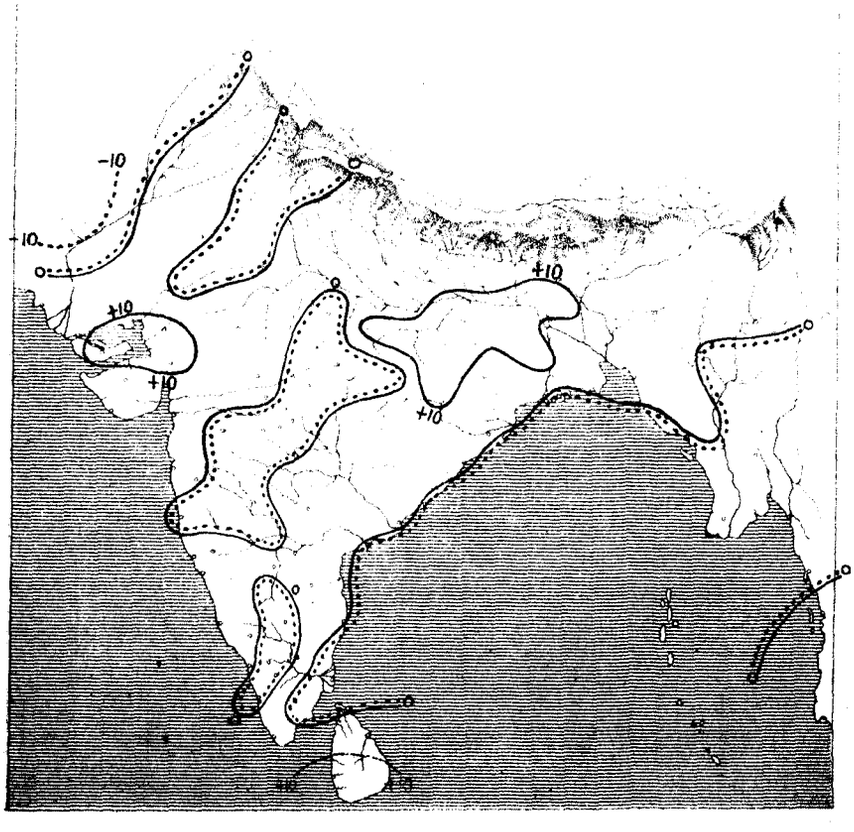


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

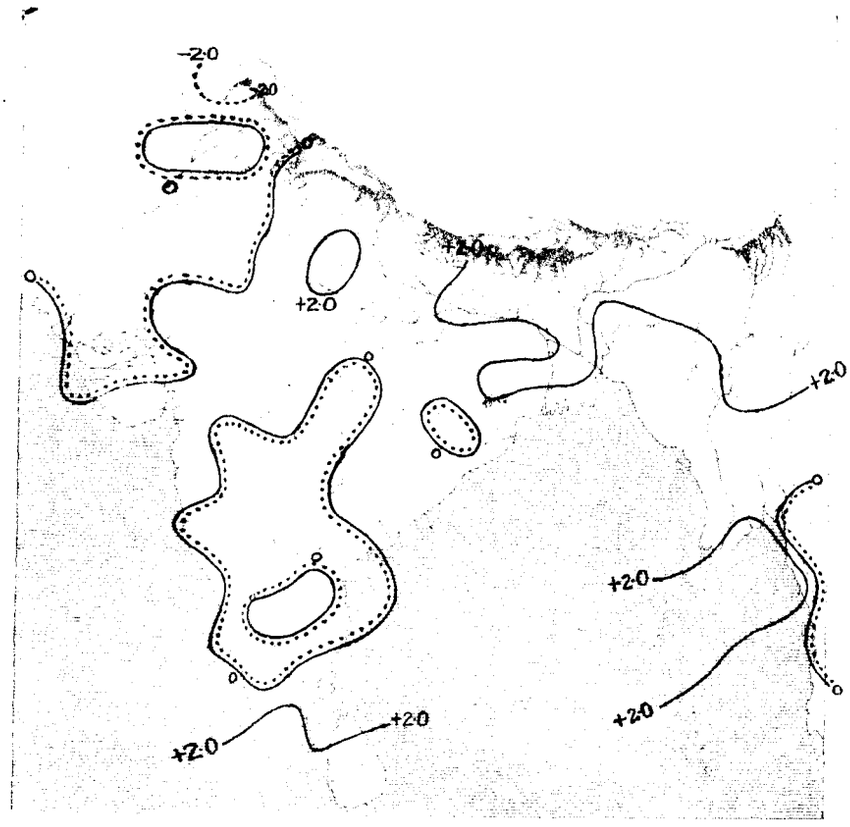
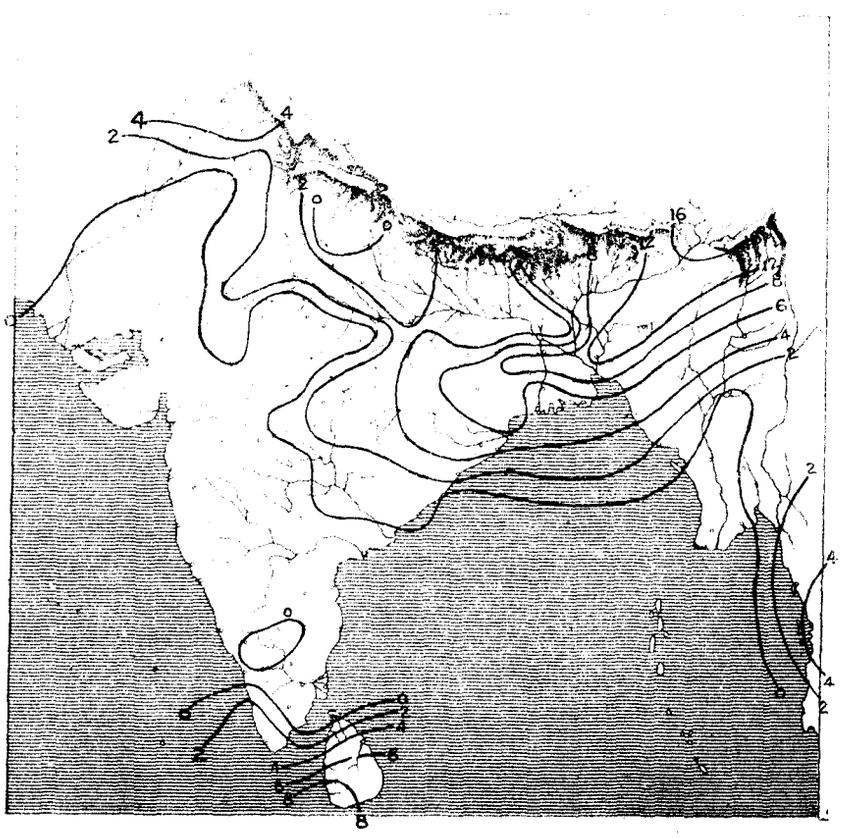
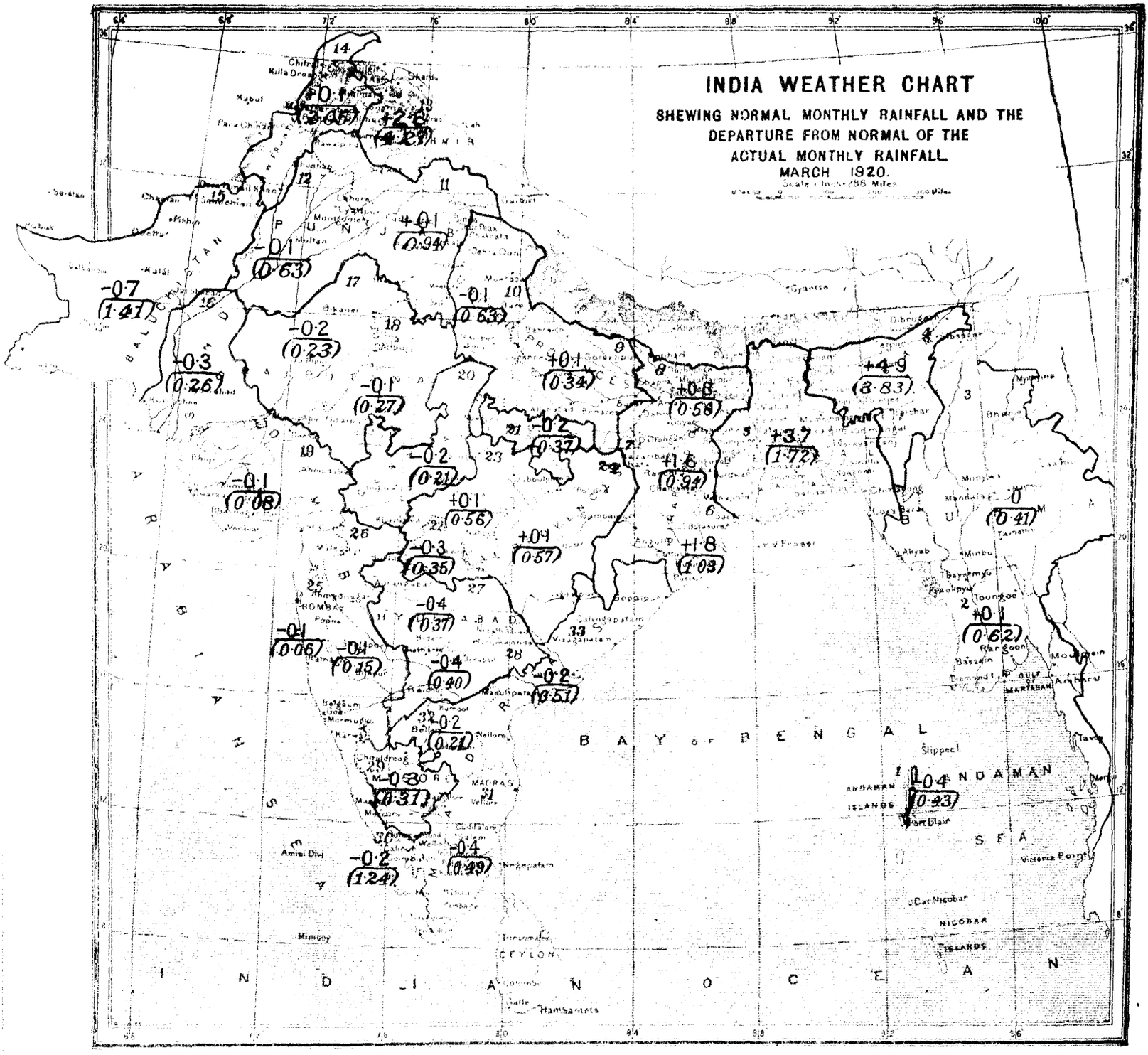


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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, APRIL, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of April, 1920, is based on observations taken daily at 8 hrs. at 211 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and such 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.

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. Six disturbances of the winter type entered north-west India, but the associated rainfall was confined mainly to the hills around the Punjab. Rainfall associated with local thunderstorms occurred fairly frequently in Assam, the Central Provinces East and the Peninsula, but over the rest of the country thunderstorms were much less frequent than usual. Towards the end of the month weather was disturbed in the south of the Arabian Sea and of the Bay of Bengal.

The month was abnormally dry over the greater part of northern and central India. The Peninsula fared better, an excess being recorded in the Konkan and south Madras, and about the normal amount generally elsewhere. Rainfall was in considerable defect in the equatorial regions of the Indian Ocean. In Persia it was normal or in excess in the north, and entirely absent in the south.

Cloud proportion was much higher than usual in the Peninsula, Orissa, south-west Bengal, the central Punjab and Kashmir; it was on the other hand in moderate to large defect in the tract of country extending from Gujarat and Sind to Bihar. Both absolute and relative humidities were above normal in the Central Provinces East. Over the rest of the country they were normal or in defect; the deficiency was most marked in the United Provinces, Rajputana and the Bombay Deccan. Temperature was below normal in Rajputana, the west Punjab, Kashmir, the North-West Frontier Province and Baluchistan.

Barometric pressure averaged over the plains of India was ·018″ above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—No observations were possible on one day and the prominence record was incomplete on three other days.

Sunspots.—11 new groups were recorded. The mean daily number was 1·4 and the average life of a spot was 3·9 days, the corresponding figures for the previous month being 2·9 and 6·9 respectively. There were four days on which no spots were visible. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	3	2	8·4°	3° & 14°
South	4	1	6·4°	2° & 13°
Equator	1	...	...	...

The large group of spots referred to in the last month's report again returned and was visible from the 11th to 23rd. The meridian passage on the 17th was marked by a "Great" magnetic disturbance.

Prominences.—48 prominences, a minute or more in height, and 8 metallic prominences were recorded. The greatest height recorded was only 130″ on the 27th.

Magnetic Disturbances.—"Great" disturbances were recorded from the 4th to 6th, on the 15th, from 17th to 18th and on the 20th. "Moderate" disturbances were registered on 14 other days.

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	18·0	1	2·7
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
Apl. 2nd	e P	1 42	...	...	...	...	...	Widening of line.
	F	2 01 48	...	...	...	...	...	
6th	e P	19 48 30	...	...	...	...	...	Widening of line.
	F	19 50 30	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of April 1920, the traces showed 11 calm days, 18 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 1st, 12th, 13th, 25th 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	C	9	S	17	S	25	C
2	C	10	C	18	S	26	S
3	C	11	C	19	S	27	C
4	S	12	C	20	S	28	C
5	S	13	C	21	S	29	C
6	S	14	S	22	S	30	S
7	S	15	M	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° 21′ 33″.
Horizontal force	0·36901 C. G. S. unit.
Vertical force	0·17130 C. G. S. unit.
Inclination	24° 54′·1.
Horizontal force range	0·00056 C. G. S. unit.
Horizontal force summed range	0·00358 C. G. S. unit.
Declination range	4′·2.
Declination summed range	16′·8.

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

Seismic records.

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

Apparatus.—Omori-Ewing Horizontal Pendulum (E.-W.).

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.

No disturbance was recorded during the month of April 1920.

T. K. CHIN MAYANANDAM,

Director,

Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

No seismic disturbance was recorded at the Calcutta (Alipore) Observatory during the month of April 1920.

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 5.

	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.
1920.		h. m. s.						
April 2nd	e P	15 40 42	...	...	...	...	...	
	F	15 48 36	...	...	...	...	...	Slight tremors.
„ 16th	e P	23 09 36	...	...	...	...	...	
	F	23 35 42	...	...	...	...	...	Slight tremors.
„ 19th	e P	21 28 30	...	...	...	...	...	
	F	21 29 06	...	...	...	...	...	Very slight local shock.
„ 19th	P	22 07 30	...	...	...	...	...	
	M	22 21 12	...	36	...	...	...	
	F	22 31 30	...	...	...	...	...	Tremors.

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

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	Remarks.
		h. m	Sec.			
Drosh . .	April 7th	18 00	3	6	2	
Mukteswar .	„ 11th	15 53	10 to 15	6	1	

S. SITARAMAYYA,

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 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	—·021	+·034	+·011
Actual mean wind direction . .	S 61° E	S 27° W	S 38° E
Normal mean wind direction . .	S 71° E	S 15° W	N 8° E
Actual mean wind velocity (miles per diem).	221	120	116
Normal mean wind velocity (miles per diem).	178	125	82
Rainfall departure from normal in inches.	—0·43	—5·26	—6·57

Depressions and cyclonic storms.

8. Six disturbances of the winter type affected the weather in north-west India during the month. The first gave between the 1st and 5th fairly widespread rain in Baluchistan and the North-West Frontier Province, with rain and snow on the western Himalayas and local rain in the sub-montane Punjab. The next three, 9th to 11th, 13th to 17th and 18th to 20th, caused precipitation only in the extreme north. The precipitation associated with the fifth occurred in Baluchistan, the North-West Frontier Province and Kashmir between the 22nd and 24th. The last disturbance caused between the 25th and 30th local rain in the North-West Frontier Province and Kashmir, with a few scattered falls in the Punjab and north-west Rajputana.

A tornado that passed over Manikganj in Bengal on the 23rd is reported to have caused the death of 93 persons.

A temporary advance of the monsoon occurred in the Indian Ocean towards the end of the month and resulted in the formation of a depression in the south of the Bay to the west of the Nicobar Islands. The depression moved slowly in a north-westerly direction, and developing into a storm of slight intensity lay about 300 miles to the west of Port Blair on the morning of the 30th. Thence moving very slowly in a north-northwesterly and then in a northerly direction it was situated in about lat. 14½° N and long. 88° E on the morning of the 3rd May. Its rate of motion increased thereafter, and it moved rapidly towards the Arakan coast. At 8 hours of the 5th May it was off Kyaukpyu, and broke up in the hills on that coast in the course of the day. Widespread and locally heavy rain fell in Burma between the 3rd and 5th May. Moderate to high seas and winds up to force 8 were experienced by vessels in the southern and eastern quadrant of the storm ; but, judging from the logs of the few vessels that were in the neighbourhood of the centre, it does not appear that winds were of greater violence near the centre.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
Burma	+·004
Assam	+·028
Bengal	+·020
Bihar and Orissa	+·019
United Provinces	+·024
Punjab	+·031
North-West Frontier Province	+·037
Sind	+·033
Rajputana	+·030
Bombay	+·007
Central India	+·015
Central Provinces	+·017
Hyderabad	+·016
Mysore	+·004
Madras	+·009

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 9.

HILL STATION.	Departure from normal pressure, A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference. B—A.
Quetta . . .	+·011	Jacobabad . .	+·049	+·038
Leh . . .	—·008	Lahore . .	+·026	+·034
Murree . . .	—·003	Peshawar . .	+·032	+·035
Simla . . .	+·020	Ludhiana . .	+·027	+·007
Mukteswar . .	+·024	Bareilly . .	+·019	—·005
Darjiling . .	—·002	Dhubri . .	+·027	+·029
Mount Abu . .	+·014	Deesa . .	+·013	—·001
Pachmarhi . .	+·006	Khandwa . .	+·013	+·007
Kodaikanal . .	—·009	Madura . .	+·011	+·020

Temperature.

10. Table 10 gives the actual temperature and its departure from normal in the 33 sub-divisions, while table 11 gives only the departures from normal in the 15 chief political divisions.

TABLE 10.

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	90·4	79·1	84·8	11·3	−0·5	−0·1	−0·4
2. Lower Burma	94·0	75·9	84·9	18·1	+0·5	−0·4	+0·9
3. Upper Burma	97·5	71·4	84·4	26·0	+0·5	−0·5	+1·0
4. Assam	84·0	66·4	75·2	17·6	−1·0	−1·3	+0·3
5. Bengal	91·9	73·3	82·6	18·6	−1·9	−0·5	−1·4
6. Orissa	97·1	75·9	86·5	21·2	−1·1	−0·4	−0·7
7. Chota Nagpur	100·7	72·9	86·8	27·9	+0·3	−0·1	+0·4
8. Bihar	99·2	71·9	85·6	27·3	+0·1	−0·8	+0·9
9. United Provinces, East	101·9	69·9	85·9	32·0	+0·6	−1·4	+2·0
10. Do. do., West	100·6	69·1	84·9	31·6	+0·7	−1·1	+1·8
11. Punjab, East and North	92·9	64·6	78·8	28·4	−1·6	−1·0	−0·6
12. Do., South-west	92·1	63·8	78·0	28·3	−4·5	−2·3	−2·2
13. Kashmir	53·7	35·6	44·6	18·1	−6·1	−2·5	−3·6
14. North-West Frontier Province	85·9	59·9	72·9	26·0	−3·5	−2·9	−0·6
15. Baluchistan	80·0	51·1	65·6	28·9	−1·8	−3·3	+1·5
16. Sind	96·5	70·8	83·6	25·7	+0·8	−1·1	+1·9
17. Rajputana, West	99·7	69·9	84·7	29·8	?	?	?
18. Do., East	99·1	70·5	84·8	28·5	−1·1	−2·4	+1·3
19. Gujarat	97·7	71·7	84·7	26·0	+0·2	−0·9	+1·1
20. Central India, West	99·7	68·7	84·3	31·0	−0·1	−1·7	+1·6
21. Do. do., East	100·8	70·1	85·5	30·7	−0·7	−1·3	+0·6
22. Berar	103·0	76·5	89·8	26·5	−0·4	+0·7	−1·1
23. Central Provinces, West	101·5	72·4	87·0	29·1	−1·2	−0·7	−0·5
24. Do. do., East	99·7	73·8	86·7	25·9	−1·8	−0·3	−1·5
25. Konkan	89·4	77·2	83·3	12·2	+0·1	−0·7	+0·8
26. Bombay Deccan	100·5	71·1	85·9	29·4	−0·3	−0·1	−0·2
27. Hyderabad, North	103·2	75·5	89·3	27·7	+0·4	+0·7	−0·3
28. Do., South	101·8	77·8	89·8	24·0	−0·4	+0·6	−1·0
29. Mysore	93·8	70·3	82·1	23·5	−0·3	+0·7	−1·0
30. Malabar	90·4	77·9	84·2	12·4	−0·1	−0·3	+0·2
31. Madras, South-east	95·2	77·7	86·4	17·6	−1·4	+0·5	−1·9
32. Do., Deccan	103·7	79·7	91·7	23·9	−0·7	+0·9	−1·6
33. Do., Coast, North	93·2	77·9	85·6	15·3	−0·7	−0·6	−0·1

TABLE 11.

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Burma	+0·5	—0·4	0
Assam	—1·0	—1·3	—1·0
Bengal	—1·9	—0·5	—1·2
Bihar and Orissa	—0·2	—0·5	—0·4
United Provinces	+0·6	—1·3	—0·3
Punjab	—2·2	—1·3	—1·7
North-West Frontier Province	—3·5	—2·9	—3·2
Sind	+0·8	—1·1	—0·2
Rajputana	—1·1	—2·4	—1·8
Bombay	0	—0·6	—0·3
Central India	—0·5	—1.5	—0·9
Central Provinces	—1·1	—0·2	—0·7
Hyderabad	—0·1	+0·7	+0·2
Mysore	—0·3	+0·7	+0·2
Madras	—0·9	+0·2	—0·4

Surface and upper air winds.

11. *Surface.*—Wind directions were more easterly than usual on the Malabar coast, and generally more westerly in the Punjab.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 12.

Division.	Hourly wind velocity in miles.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	4·0	+0·1	52	— 1
Assam	4·0	+0·2	53	+ 6
Bengal	3·8	—0·6	60	— 1
Bihar and Orissa	4·3	—0·2	53	+ 6
United Provinces	2·3	—0·3	29	+12
Punjab	3·5	+0·7	31	+ 9
North-West Frontier Province.	1·6	—0·7	27	+ 5
Sind	4·5	—2·4	30	—18
Rajputana	4·2	—0·2	32	+ 2
Bombay	5·1	—1·4	38	— 4
Central India	2·9	—1·3	30	— 7
Central Provinces	3·8	0	24	— 5
Hyderabad	5·1	—0·2	28	+ 5
Mysore	3·9	—0·3	54	+ 4
Madras	4·2	—0·5	45	+ 2

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab and Calcutta during the month are given in the following table :—

TABLE 13.

Height above sea, kms.	Agra. Height above sea 0·17 km.				Simla. Height above sea 2·13 kms.				Lahore. Height above sea 0·21 km.				Bangalore. Height above sea 0·92 km.				Akyab. Height above sea 0·01 km.				Calcutta. Height above sea 0·01 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	39	2·8	1·9	276	28	2·4	0·4	66	30	1·2	0·8	3	24	2·5	0·3	177	27	0·3	0·2	287	29	3·5	3·3	204
0·5	39	8·4	5·3	329	...	...	...	...	30	7·0	4·4	357	...	...	...	...	27	3·2	2·3	320	26	5·8	5·2	215
1·0	39	7·7	5·7	319	...	...	...	...	30	6·3	1·7	351	24	2·7	0·9	205	27	4·4	3·6	317	26	5·1	4·2	239
1·5	38	7·1	5·9	298	...	...	...	...	30	6·5	2·3	304	27	3·3	0·8	156	27	5·7	4·9	309	19	6·7	5·4	266
2·0	37	7·6	6·8	284	...	...	...	...	30	6·9	3·0	286	24	4·7	2·9	71	27	6·0	5·1	306	12	7·8	7·0	270
2·5	35	9·0	8·2	279	27	5·6	0·9	13	29	7·6	4·6	285	24	7·1	6·3	69	23	6·0	5·0	309	7	6·8	6·3	287
3·0	35	10·4	9.1	273	27	5·3	0·6	152	29	8·1	5·3	281	24	8·3	7·9	65	23	6·6	5·3	315	4	6·7	6·5	277
3·5	33	11·1	9·9	268	27	5·7	1·2	244	28	8·5	6·5	279	22	8·9	7·9	65	20	7·4	6·1	310	2	6·3	6·2	288
4·0	30	12·3	11·1	265	27	7·2	3·3	269	28	9·9	8·4	268	22	8·5	7·1	62	20	7·3	6·4	304	1	11·0	11·0	290
4·5	26	13·1	12·1	268	24	8·2	5·0	266	28	11·5	10·1	263	18	7·3	5·1	68	20	8·6	7·7	297	1	14·0	14·0	285
5·0	26	12·7	12·4	267	24	9·9	7·1	268	27	12·7	11·3	259	17	5·6	2·4	99	20	8·9	8·2	290	...	...	...	...
5·5	26	14·9	14·5	267	19	11·3	9·5	260	25	13·7	12·0	261	17	4·6	1·3	116	4	9·4	9·2	299	..	...	...	...
6·0	23	15·5	14·8	269	18	12·6	11·2	259	21	14·6	13·1	264	15	4·2	0·7	103	2	12·0	11·9	289	...	...	...	...
6·5	21	17·1	16·3	268	16	15·4	13·8	266	20	16·1	15·1	267	14	4·	2·0	104	...	...	...	...	...	...	...	...
7·0	17	18·4	17·8	271	12	18·9	12·5	265	19	18·0	17·2	268	14	5·2	2·0	110	...	...	...	...	...	...	...	...
7·5	13	21·7	21·0	273	11	15·7	14·9	262	14	19·0	18·3	277	14	5·0	1·9	119	...	...	...	...	...	...	...	...
8·0	12	23·5	22·6	274	11	18·6	17·6	263	14	21·1	20·4	278	12	5·0	2·0	143	...	...	...	...	...	...	...	...
8·5	10	24·7	24·0	280	7	21·1	20·0	263	12	21·1	20·0	277	10	4·7	2·1	179	...	...	...	...	...	...	...	...
9·0	9	26·3	25·3	279	7	23·4	21·9	261	10	23·7	22·9	273	10	5·1	2·1	215	...	...	...	...	...	...	...	...
9·5	4	32·6	31·7	271	5	22·8	21·3	271	6	24·2	23·5	275	10	5·2	2·1	199	...	...	...	...	...	...	...	...
10·0	3	31·8	30·9	276	5	26·9	24·6	272	5	28·3	27·7	270	9	4·5	2·2	224	...	...	...	...	...	...	...	...
10·5	1	18·5	18·5	290	1	28·5	28·5	275	3	29·2	28·0	267	9	5·0	2·9	229	...	...	...	...	...	...	...	...
11·0	1	22·5	22·5	290	1	33·0	33·0	275	...	...	...	...	8	6·2	3·7	229	...	...	...	...	...	...	...	...
11·5	...	...	...	...	...	...	...	...	...	...	...	...	8	6·9	4·8	221	...	...	...	...	...	...	...	...
12·0	...	...	...	...	...	...	...	...	...	...	...	...	6	7.7	6	213	...	...	...	...	...	...	...	...
12·5	...	...	...	...	...	...	...	...	...	...	...	...	6	7·1	5·7	2·07	...	...	...	...	...	...	...	...
13·0	...	...	...	...	...	...	...	...	.	...	...	...	3	8·3	6·5	206	...	...	...	...	...	...	...	...
13·5	...	...	...	...	...	...	...	...	...	...	...	...	2	7·5	7·1	213	...	...	...	...	...	...	...	...
14·0	...	...	...	...	...	...	...	...	...	...	...	...	2	6·5	5·1	217	...	...	...	...	...	...	...	...

N = Number of flights.
V = Velocity of wind, regardless of direction, metre per Sec.
v = Velocity of Resultant Wind, taking account of direction, metre per Sec.
L = Direction of Resultant Wind; North Wind = 0° or 360°, East Wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours 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 . .	71	— 4	·744	—·043	3·6	+0·2
Assam . . .	86	+ 1	·667	—·016	5·0	—0·2
Bengal . .	80	+ 3	·802	—·002	4·6	+0·2
Bihar and Orissa .	53	— 2	·586	—·030	2·7	+0·3
United Provinces .	32	—10	·348	—·104	0·8	—0·8
Punjab . .	4[illegible]	— 5	·340	—·064	2·3	—0·1
North-West Frontier Province.	62	+ 3	·409	—·063	2·5	—0·6
Sind . . .	50	— 6	·500	—·072	0·7	—1·3
Rajputana . .	25	— 8	·260	—·103	1·0	—0·9
Bombay . .	55	— 2	·583	—·041	2·4	+0·3
Central India .	32	— 3	·369	—·033	1·3	—0·5
Central Provinces .	35	— 2	·401	—·022	2·2	+0·3
Hyderabad . .	48	— 4	·560	—·043	2·9	+0·7
Mysore . .	70	+ 1	·633	—·009	5·3	+1·8
Madras . .	74	+ 1	·844	—·007	4·7	+1·0

Rainfall.

13. The total rainfall of the month was above normal in the Konkan, Malabar and Madras South-east, and within 10 per cent. of the normal in Kashmir, the Central Provinces East, the Bombay Deccan, Hyderabad North, Mysore and the Madras Coast North. Over the rest of the country it was generally in moderate to large defect. There was hardly any rain in the United Provinces, Rajputana East, Gujarat and Central India.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	0·7	2·3	0·17	1·40	— 1·23	— 88
2. Lower Burma	1·0	2·2	0·58	1·64	— 1·06	— 65
3. Upper Burma	0·7	2·3	0·27	1·24	— 0·97	— 78
4. Assam	13·0	12·1	7·50	9·36	— 1·86	— 20
5. Bengal	3·0	4·5	2·06	3·22	— 1·16	— 36
6. Orissa	1·9	2·6	0·97	1·54	— 0·57	— 37
7. Chota Nagpur	0·9	1·6	0·29	0·76	— 0·47	— 62
8. Bihar	0·3	1·3	0·17	0·67	— 0·50	— 75

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
9. United Provinces, East	0·1	0·5	0·02	0·20	− 0·18	− 90
10. Do. do., West	0·1	0·7	0·02	0·29	− 0·27	− 93
11. Punjab, East and North	0·3	1·2	0·08	0·53	− 0·45	− 85
12. Do., South-west	0·6	1·2	0·14	0·51	− 0·37	− 73
13. Kashmir	5·7	5·4	3·06	3·38	− 0·32	− 9
14. North-West Frontier Province	2·8	3·5	0·94	1·68	− 0·74	− 44
15. Baluchistan	1·6	1·8	0·53	0·76	− 0·23	− 30
16. Sind	0·3	0·3	0·05	0·11	− 0·06	− 55
17. Rajputana, West	0·1	0·4	0·04	0·17	− 0·13	− 76
18. Do., East	0	0·5	0·01	0·18	− 0·17	− 94
19. Gujarat	0	0·1	0·01	0·03	− 0·02	− 67
20. Central India, West	0	0·4	0·01	0·19	− 0·18	− 95
21. Do. do., East	0	0·6	0·01	0·30	− 0·29	− 97
22. Berar	0·3	0·7	0·08	0·25	− 0·17	− 68
23. Central Provinces, West	0·5	0·8	0·20	0·33	− 0·13	− 39
24. Do. do., East	2·3	1·8	0·90	0·90	0	0
25. Konkan	1·0	0·7	0·58	0·38	+ 0·20	+ 53
26. Bombay Deccan	1·3	1·4	0·65	0·67	− 0·02	− 3
27. Hyderabad, North	1·7	1·7	0·84	0·79	+ 0·05	+ 6
28. Do., South	1·1	1·2	0·36	0·48	− 0·12	− 25
29. Mysore	2·9	2·8	1·54	1·50	+ 0·04	+ 3
30. Malabar	9·8	5·7	7·09	4·03	+ 3·06	+ 76
31. Madras, South-east	3·5	2·1	2·23	1·37	+ 0·86	+ 63
32. Do., Deccan	0·5	1·3	0·22	0·65	− 0·43	− 66
33. Do., Coast, North	1·2	1·6	0·93	0·97	− 0·04	− 4

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·39	1·40	—1·01	—72
Assam	7·50	9·36	—1·86	—20
Bengal	2·06	3·22	—1·16	—36
Bihar and Orissa	0·39	0·90	—0·51	—57
United Provinces	0·02	0·25	—0·23	—92
Punjab	0·09	0·52	—0·43	—83
North-West Frontier Province	0·94	1·68	—0·74	—44
Sind	0·05	0·11	—0·06	—55
Rajputana	0·02	0·18	—0·16	—89
Bombay	0·43	0·41	+0·02	+5
Central India	0·01	0·23	—0·22	—96
Central Provinces	0·47	0·56	—0·09	—16
Hyderabad	0·59	0·63	—0·04	—6
Mysore	1·54	1·50	+0·04	+3
Madras	2·78	1·79	+0·99	+55
Mean of India	0·90	1·19	—0·29	—24

Snowfall.

I.—The North-West Frontier Province.

14. *Kohat.*—No snow fell in the district.

II.—Kashmir.

(*a*) *Srinagar.*—There was no fresh snow in the valley proper, but falls were occasionally observed on the surrounding mountains.

(*b*) *Skardu.*—Snow fell on 13 days on the surrounding mountains to a total depth of over 10 feet. This is above the average. The accumulations at the end of the month were 5 or 6 feet on the higher mountains and 3 or 4 feet on the lower.

(*c*) *Dras.*—Snow fell on 19 days, the total amount being 11 feet.

(*d*) *Kargil.*—About 3 feet fell during the month at the station and about 5 feet on the neighbouring mountains. The falls occurred on 11 days.

III.—The Punjab.

Kilba (*Simla Hills*).—Snow fell on 13 days, and on 7 occasions reached down to 9,000 feet.

IV.—The United Provinces.

Almora.—Reports from Patwaris were as follows :—

Table 17.

Locality.	Actual falls during month.		
	Depth.		Distance below perpetual snowline.
	Feet.	Inches.	
Malla Danpur	1	0	3 or 4 miles.
Malla Johar	1	6	3 miles.
Malla Darma	1	9	1½ miles.
Chaudas	1	1	½ mile.

Table 18.

Name of pass or peak.	Accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	12	26½
Binkaru "	5	17½
Kaphini peak	1	2½
Kuntela "	1	2½
Milamdhura	1½	4½
Bagdwar	½	...
Pindari peak	1	2½

V.—The Eastern Himalayas.

(*a*) *Yatung.*—Had about 6 inches of snow.

(*b*) *Sadiya Frontier Tract.*—On the 25th of the month there was light snow lying on the Pamlon and the Phankan passes (9,000 feet) and down to 9,000 feet on the Sita and the Dapha passes. The snowfall of the whole winter season was much heavier than usual.

Summary.

15. The month's fall was above the average in Kashmir and the Eastern Himalayas and below it in the Almora hills.

S. Sitaramayya,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in April, 1920.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 13

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. Mean of 10 hrs.	Pressure. Mean of 16 hrs.	Pressure. Mean daily range.	Pressure. Mean of daily mean pressures.	Pressure. Departure from normal.	Pressure. Mean reduced to sea-level and to gravity at 45° Lat.	Temperature of air. Mean maximum.	Temperature of air. Mean minimum.	Temperature of air. Mean daily range.	Temperature of air. Highest maximum.	Temperature of air. Lowest minimum.	Temperature of air. Absolute range.	Temperature of air. Mean 10 hrs.	Temperature of air. Mean 16 hrs.	Temperature of air. Mean of daily means.	Temperature of air. Departure from normal.	Temperature, Wet-bulb. Mean minimum.	Temperature, Wet-bulb. Mean 10 hrs.	Temperature, Wet-bulb. Mean 16 hrs.	Temperature, Wet-bulb. 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	29·828	29·704	·124	29·765	+·014	29·733	94·6	76·7	17·9	103·4	69·4	34·0	87·9	91·6	85·0	0	72·5	78·7	79·0	76·8
	VI.—Punjab.																					
31	Lahore	702	29·113	29·021	·092	29·061	+·026	29·725	92·5	63·8	28·7	101·7	52·3	49·4	83·0	90·9	77·7	−3·2	55·7	64·8	66·7	62·4
	IX.—Rajputana.																					
38	Jaipur	1,431	28·440	28·328	·112	28·378	+·031	29·713	99·1	67·8	31·3	105·8	57·3	48·5	90·7	97·7	83·2	−3·0	54·1	62·8	64·7	60·5
	X.—Bombay.																					
25	Bombay	37	29·877	29·757	·120	29·816	+·004	29·793	89·5	77·7	11·8	92·0	72·8	19·2	83·8	85·9	82·6	+0·5	71·7	76·6	76·9	75·1
	XIV.—Mysore.																					
39	Bangalore	3,021	26·958	26·829	·129	26·899	+·021	29·681	93·0	69·4	23·6	96·5	65·0	31·5	82·9	90·1	79·9	0	64·6	69·6	67·7	67·3
	XV.—Madras.																					
30	Trivandrum	198	29·722	29·611	·111	29·671	+·017	29·797	87·1	77·3	9·8	89·8	74·6	15·2	83·4	84·0	81·2	−0·7		77·9	78·4	
41	Pudukkottai	318	29·602	29·453	·149	29·527		29·771	97·5	78·3	19·2	103·2	70·9	32·3	88·0	92·8	87·9			76·5	76·4	
	Madras	22	29·884	29·766	·118	29·832	+·007	29·785	93·0	77·7	15·3	97·8	74·3	23·5	90·0	88·7	84·3	+0·2	75·8	78·7	79·2	77·9
	Kashmir.																					
13	Srinagar	5,204	24·924	24·841	·083	24·883	−·004	24·853	59·6	44·0	15·6	70·2	35·0	35·2	52·4	58·0	51·8	−3·9	43·3	49·5	52·6	48·5
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·648	25·589	·059	25·617	+·068	25·570	85·9	50·8	35·3	92·2	42·7	49·5	75·3	82·0	68·8	+1·7	46·8	59·6	59·5	55·3
	Kodaikanal	7,688	22·856	22·790	·066	22·823		22·758	70·0	52·0	18·0	74·7	48·7	26·0	66·4	62·3	61·0		47·7	55·9	57·1	53·6
	Extra India.																					
	Seychelles	15	29·965	29·868	·097	29·917	+·011*	29·920	86·2	79·7	6·5	87·2	77·4	9·8	83·4	84·9	81·8	+2·2*	73·5	76·6	77·1	75·7
	Mauritius	181				29·803	−·021	29·871	80·2	69·4	10·8	83·8	58·3	25·5			74·1	−1·3				

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 2,000 feet.

A.

stations in India, etc., in April, 1920.

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.	
·747	·863	·826	·844	+·047	81	65	56	72	+ 2	3·3	3·1	3·2	+0·6	0	1	0	0	2	17	33	5	2	S 36° W	S 30° W	82	69	118	123	0·04	0·02	Calcutta	5
																															VI.—Punjab.	
·341	·374	·334	·367	−·028	59	34	24	41	0	2·7	3·5	3·1	+0·2	4	4	10	0	7	1	3	4	27	N 31° W	N 15° W	43	28	60	56	0·04	0·03	Lahore	11
																															IX.—Rajputana.	
·258	·228	·204	·243	−·090	37	15	11	23	− 7	1·1	2·2	1·7	−0·8	0	5	2	2	2	8	19	15	7	S 68° W	N 57° W	52	50	83	88	0	0	Jaipur	18
																															X.—Bombay.	
·694	·816	·803	·796	−·045	73	70	65	72	− 5	1·3	0·6	0·9	−0·7	0	1	0	2	0	3	3	21	30	N 68° W	N 60° W	77	56	145	185	0	0	Bombay	25
																															XIV.—Mysore.	
·551	·570	·419	·533	−·022	77	51	30	55	0	5·7	6·2	5·9		7	2	7	11	9	7	5	8	4	S 46° E	S 27° W	18	38	215	84	0·96	0·42	Bangalore	29
																															XV.—Madras.	
	·879	·895				78	77			8·6	9·0	8·8	+4·0	12	2	8	0	0	1	14	9	14	N 74° W	N 69° W	40	65	69	103	7·33	1·22	Trivandrum	30
	·753	·686				57	45			5·2	6·4	5·8		13	0	6	13	12	11	4	1	0	S 50° E		47		75		1·69	1·45	Pudukkottai	31
·864	·828	·870	·876	−·024	91	59	65	75	− 3	4·7	3·6	4·1	+0·6	0	0	0	3	34	13	10	0	0	S 24° E	S 36° E	81	83	71	133	0·06	0·06	Madras.	
																															Kashmir.	
·273	·323	·339	·312	−·018	74	82	71	82	+ 4	7·0	7·0	7·0	+2·0	6	8	4	0	2	4	2	7	27	N 45° W	N 18° W	55	19	64	84	4·21	0·57	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·277	·331	·253	·280	−·080	75	38	23	45	−13	2·2	4·9	3·5	−0·5	0	0	0	30	0	0	0	30	0	(a)	N 87° W	(a)	42	10	26	0·23	0·09	Kathmandu.	
·289	·342	·412	·348		75	53	75	68		4·7	7·3	6·0		0	19	13	8	14	3	0	1	2	N 56° E		50		188		6·35	1·40	Kodaikanal.	
																															Extra India.	
·742	·823	·825	·822	−·041	74	72	69	75	− 5	5·5	6·0	5·7	+0·6*	4	4	5	3	15	14	0	1	14	S 28° E	N 8° E	17	9	116	82	0·78	0·38	Seychelles.	
			·669	−·022				78	− 2			7·1	+2·0										S 61° E	S 71° E			161	130	4·60	2·80	Mauritius.	

* Departure from old normal. (a) Indeterminate.

Table B.—Abstract of observations taken at 8 hrs. at 211 stations in India, etc., in April, 1920.

(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 2,500 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	+·004	95·4	+0·5	74·0	−0·4	84·7	0	21·4	+0·1	− 1	71	− 4	·744	−·043	3·6	+0·2	0·39	1·40	−1·01
Assam	+·028	84·0	−1·0	66·4	−1·3	75·2	−1·0	17·6	+0·2	+ 6	86	+ 1	·667	−·016	5·0	−0·2	7·50	9·36	−1·86
Bengal	+·020	91·9	−1·9	73·3	−0·5	82·6	−1·2	18·6	−0·6	− 1	80	+ 3	·802	−·002	4·6	+0·2	2·06	3·22	−1·16
Bihar and Orissa	+019	98·9	−0·2	73·4	−0·5	86·2	−0·4	25·5	−0·2	+ 6	56	+ 2	·586	−·030	2·7	+0·3	0·39	0·90	−0·51
United Provinces of Agra and Oudh	+·024	101·3	+0·6	69·5	−1·3	85·4	−0·3	31·8	−0·3	+12	32	−10	·348	−·104	0·8	−0·8	0·02	0·25	−0·23
Punjab	+·031	92·7	−2·2	64·3	−1·3	78·5	−1·7	28·4	+0·7	+ 9	41	− 5	·340	−·064	2·3	−0·1	0·09	0·52	−0·43
North-West Frontier Province	+·037	85·9	−3·5	59·9	−2·9	72·9	−3·2	26·0	−0·7	+ 5	62	+ 3	·409	−·063	2·5	−0·6	0·94	1·68	−0·74
Sind	+·033	96·5	+0·8	70·8	−1·1	83·6	−0·2	25·7	−2·4	−18	50	− 6	·500	−·072	0·7	−1·3	0·05	0·11	−0·06
Rajputana	+·030	99.3	−1·1	70·3	−2·4	84·8	−1·8	29·0	−0·2	+ 2	25	− 8	·260	−·103	1·0	−0·9	0·02	0·18	−0·16
Bombay	+·007	96·9	0	72·7	−0·6	84·8	−0·3	24·2	−1·4	− 4	55	− 2	·583	−·041	2·4	+0·3	0·43	0·41	+0·02
Central India	+·015	100·3	−0·5	69·5	−1·5	84·9	−0·9	30·8	−1·3	− 7	33	− 3	·369	−·033	1·3	−0·5	0·01	0·23	−0·22
Central Provinces	+·017	101·3	−1·1	73·8	−0·2	87·6	−0·7	27·5	0	− 5	35	− 2	·401	−·022	2·2	+0·3	0·47	0·56	−0·09
Hyderabad	+·016	102·3	−0·1	77·0	+0·7	89·7	+0·2	25·3	−0·2	+ 5	48	− 4	·560	−·043	2·9	+0·7	0·59	0·68	−0·08
Mysore	+·004	93·8	−0·2	70·3	+0·7	82·1	+0·2	23·5	−0·3	+ 4	70	+ 1	·633	−·009	5·3	+1·3	1·54	1·50	+0·04
Madras	+·009	95·0	−0·9	78·1	+0·2	86·5	−0·4	16·9	−0·5	+ 2	74	+ 1	·844	−·007	4·7	+1·0	2·78	1·79	+0·99

Table

(2) Abstract of observations taken at 8 hrs. at 211

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	29·773		29·849	29·817	14th	29·721	30th	83·1	77·4	91·6		77·3		84·4		14·3	99·0	24th	74·3	13th
	Mergui	66	29·857	0	29·853	29·907	13th	29·800	26th & 30th.	81·8	78·1	91·6	+2·7	75·7	+1·5	85·1	+2·1	18·9	96·6	15th	72·6	13th
	Tavoy	19	29·905	−·012	29·856	29·954	14th	29·837	30th	81·7	76·4	96·6	+2·8	75·1	+0·6	85·9	+1·7	21·5	99·8	22nd	71·2	8th
	Moulmein	77	29·846	+·006	29·861	29·901	14th	29·779	30th	82·3	76·3	95·0	+0·5	76·5	−0·1	85·7	+0·2	18·5	98·9	22nd	72·7	22nd
	Rangoon	18	29·894	+·007	29·849	29·956	14th	29·837	30th	80·1	75·8	96·8	−1·4	75·3	−1·0	86·1	−1·2	21·5	99·2	5th	72·5	2nd
	Bassein	27	29·888	+·009	29·851	29·947	14th	29·820	30th	83·5	77·0	97·1	+1·0	74·6	−1·3	85·9	−0·1	22·5	100·2	5th & 30th.	71·2	19th
	Diamond Island	41	29·867	−·006	29·842	29·927	14th	29·795	30th	83·8	76·7	87·6	−0·8	79·6	+0·8	83·6	0	8·0	91·7	30th	77·2	17th
	Toungoo	164	29·735	+·011	29·835	29·808	14th	29·667	28th	84·0	76·6	100·7	+0·2	75·1	−1·0	87·9	−0·4	25·6	104·5	21st	68·7	1st
	Kyaukpyu	18	29·871		29·829	29·949	1st	29·795	30th	82·2	77·3	89·0		76·5		82·7		12·5	93·9	26th	72·9	1st
	Akyab	20	29·874	−·002	29·825	29·944	1st	29·798	30th	81·5	76·1	90·9	−0·7	73·1	−2·7	82·0	−1·7	17·8	93·0	25th & 29th.	67·6	1st
3	Minbu	*165*	29·694	−·001	29·801	29·781	1st	29·626	26th & 30th.	84·2	74·6	103·3	+0·3	77·8	+0·6	90·5	+0·5	25·5	109·4	30th	72·3	4th
	Yamethin	644	29·227	+·012	29·815	29·292	1st	29·158	26th	83·2	73·2	101·1	−0·2	76·7	+0·4	88·9	+0·1	24·4	105·9	20th & 22nd.	66·6	2nd
	Mandalay	250	29·608	+·007	29·803	29·702	1st	29·524	29th	86·0	70·8	104·6	+2·4	77·7	−0·1	91·2	+1·1	26·9	109·1	30th	68·9	2nd
	Monywa	*280*	29·597	+·012	29·825	29·709	1st	29·499	27th	82·9	68·0	103·5	+2·5	75·7	+0·5	89·6	+1·5	27·8	109·8	30th	68·7	2nd
	Lashio	*2,820*	27·108	+·008	27·054	27·169	1st	27·035	29th	68·7	61·0	89·3	−0·5	60·5	−2·2	74·9	−1·3	28·8	91·0	22nd & 23rd.	54·9	4th
	Bhamo	*361*	29·494	+·013	29·815	29·621	1st	29·392	27th	71·6	70·1	92·4	−0·4	66·1	−0·9	79·2	−0·7	26·3	97·7	24th	57·5	2nd
	Myitkyina	463	29·391	+·001	29·822	29·504	1st	29·290	27th & 29th.	70·0	64·7	88·0	−0·7	65·5	−1·7	76·7	−1·2	22·5	94·8	25th	57·0	1st
	II.—Assam.																					
4	Dibrugarh	353	29·547	+·022	29·870	29·654	14th	29·342	29th	68·8	67·9	79·6	+0·1	64·6	−0·7	72·1	−0·3	15·0	86·3	26th & 30th.	54·3	1st
	Sibsagar	332	29·564	+·019	29·865	29·682	14th	29·379	29th	67·6	66·1	79·1	−2·6	64·7	−1·5	71·9	−2·1	14·4	87·4	30th	55·2	1st
	Tezpur	252	29·646	+·036	29·863	29·764	1st	29·447	29th	69·6	66·6	82·1	−1·7	66·0	−1·3	74·0	−1·5	16·1	90·2	30th	57·5	1st
	Gauhati	196	29·697	+·032	29·854	29·801	14th	29·533	29th	72·2	68·6	84·7	−2·0	66·6	−0·7	75·7	−1·3	18·1	93·4	30th	59·3	1st
	Dhubri	115	29·749	+·027	29·820	29·857	1st & 14th	29·598	29th	72·8	69·1	83·8	−4·4?	69·0	−1·0	76·4	−2·7?	14·8	91·7	29th	63·3	1st
	Silchar	104	29·812	+·032	29·870	29·895	14th	29·708	26th & 27th.	74·9	70·7	87·5	−0·6	67·2	−1·8	77·4	−1·2	20·3	92·2	22nd	61·2	1st
	Sylhet	66	29·830		29·846	29·893	14th	29·718	27th	76·3	72·4	91·4	+0·6	66·7	−2·1	79·1	−0·7	24·7	96·5	22nd	60·4	3rd
	III.—Bengal.																					
5	Cox's Bazar	36	29·865		29·846	29·910	13th	29·777	27th	79·6	76·1	88·3		71·7		80·0		16·6	91·2	25th	66·1	3rd
	Chittagong	87	29·804	+·014	29·837	29·884	14th	29·714	27th	77·8	75·0	89·0	+0·1	72·3	−1·1	80·8	−0·5	16·7	92·4	22nd & 25th.	65·4	3rd
	Noakhali	43	29·846	+·030	29·836	29·926	14th	29·751	27th	80·2	76·3	88·2	−0·7	75·0	+1·3	81·6	+0·3	13·2	90·8	23rd	65·8	3rd
	Barisal	12	29·858	+·025	29·818	29·935	14th	29·757	27th	80·3	76·8	89·8	−2·0	74·5	−0·4	82·2	−1·2	15·3	93·0	16th & 22nd.	68·8	10th
	Narayanganj	26	29·837	+·019	29·812	29·922	14th	29·726	27th	79·6	75·2	89·7	−2·9	73·2	−1·1	81·4	−2·0	16·5	93·9	30th	66·4	3rd
	Mymensingh	63	29·805	+·022	29·820	29·891	14th	29·685	27th	75·8	71·8	89·0	−1·7	71·0	−0·9	80·0	−1·3	18·0	94·3	30th	64·1	3rd
	Bogra	75	29·789	+·022	29·796	29·867	1st	29·653	27th	77·6	73·5	94·2	−1·5	71·0	−0·8	82·6	−1·1	23·2	101·0	29th	64·9	3rd
	Dinajpur	123	29·707	+·017	29·786	29·819	1st	29·569	29th	75·7	69·8	93·8	−0·8	68·5	−1·4	81·2	−1·1	25·3	103·3	30th	61·0	7th
	Jalpaiguri	283	29·584	+·026	29·826	29·691	14th	29·457	29th	74·5	69·5	88·8	−0·7	67·8	−0·4	78·3	−0·5	21·0	96·7	30th	61·5	1st

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

B.

stations in India, etc., in April, 1920.

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 normal.	Wind steadiness. Actual percentage.	Departure 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. 1919 to 30th April, 1920.	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	3	12	7	0	0	0	0	1	N 50° E		5·1			62		76		·865		6·6		5	+ 0·2	2·62	2·51	+ 0·11	5·45	6·19	− 0·74	1·26	Victoria Point.
16	0	0	4	7	3	0	0	0	S 48° E	N 8° W	3·6	1·7	+1·9	40	−17	84	+ 2	·913	+·025	1·6	−1·9	5	− 1·1	2·40	5·47	− 3·07	9·36	11·85	− 2·49	0·65	Mergui.
26	2	2	0	0	0	0	0	0	N 23° E	N 27° W	1·3	1·2	+0·1	10	+ 6	78	− 6	·835	−·040	3·6	+1·7	1	− 3·1	0·30	2·97	− 2·67	2·43	5·43	− 3·00	0·30	Tavoy.
2	0	3	11	8	4	2	0	0	S 63° E	S 24° E	3·8	2·8	+1·0	62	+17	75	− 3	·824	−·037	1·6	−2·2?	1	− 3·0	0·12	2·94	− 2·82	2·66	4·02	− 1·36	0·12	Moulmein.
3	2	1	0	0	4	11	4	5	S 70° W	S 61° W	4·8	4·1	+0·7	53	−17	81	+ 1	·832	−·011	3·3	+0·2	0	− 1·8	0	1·50	− 1·50	0·85	2·68	− 1·83	0	Rangoon.
2	1	1	0	0	0	0	2	24	N 44° W	N 55° W	3·2	4·5	−1·3	86	+19	74	− 5	·817	−·024	5·0	+2·0	0	− 1·6	0	1·19	− 1·19	0·40	2·18	− 1·78	0	Bassein.
0	4	1	1	0	0	0	10	14	N 51° W	N 47° W	9·8	6·2	+3·6	76	+13	71	− 4	·816	−·042	4·9	+1·3	0	− 1·0	0	0·96	− 0·96	1·43	2·38	− 0·95	0	Diamond Island.
2	1	1	1	9	4	2	0	0	S 18° E	S 28° E	3·1	3·4	−0·3	69	− 5	70	− 3	·814	−·040	2·2	−0·8	2	− 0·7	0·91	1·97	− 1·06	3·09	3·16	− 0·07	0·72	Toungoo.
27	0	0	0	0	0	0	0	3	N 45° W		1·7			10		79		·870		4·9		0	− 2·1	0·05	1·72	− 1·67	5·20	2·82	+ 2·38	0·05	Kyaukpyu.
2	7	13	3	4	0	0	0	1	N 45° E	N 43° E	3·7	2·8	+0·9	66	+19	77	− 4	·830	−·052	2·8	−1·4	1	− 0·8	0·19	1·99	− 1·80	2·67	3·41	− 0·74	0·16	Akyab.
2	2	0	1	17	1	0	0	7	S 53° E	S 45° E	3·3	7·1	−3·8	33	−15	63	+ 1	·735	+·057	3·0	+1·2	0	− 1·2	0	0·87	− 0·87	1·81	1·85	− 0·04	0	Minbu.
										S 28° E		5·0				60	− 5	·688	−·051	0·9	−0·6	2	− 0·4	1·22	1·50	− 0·28	4·24	2·73	+ 1·51	1·00	Yamethin.
										S 3° W		4·6				45	−11	·553	−·123	3·6	+1·7	0	− 2·4	0	1·24	− 1·24	1·34	1·93	− 0·59	0	Mandalay.
5	12	2	0	1	1	0	0	9	N 14° W		1·6			62		46	−13	·525	−·126	2·4	+0·5	0	− 1·8	0·02	0·90	− 0·88	0·58	1·76	− 1·18	0·01	Monywa.
26	1	1	1	1	0	0	0	0	N 67° E		2·1			7		63	− 6	·441	−·072	3·2	−1·7	5	+ 0·7	1·20	2·10	− 0·90	3·31	4·27	− 0·96	0·31	Lashio.
29	1	0	0	0	0	0	0	0	N	N 14° W	1·5	3·1	−1·6		−30	92	+16?	·718	+·089?	7·6	+3·7?	2	− 2·7	0·50	1·85	− 1·35	4·36	4·18	+ 0·18	0·28	Bhamo.
22	1	5	2	0	0	0	0	0	N 51° E		4·9			27		75	− 1	·543	−·069	4·7	−0·2	4	− 1·4	0·53	2·00	− 1·17	4·64	4·72	− 0·08	0·31	Myitkyina.
																															II.—Assam.
14	0	1	8	7	0	0	0	0	S 73° E		4·2			49		96	+ 7	·675	+·042	7·0	+0·5	13	− 1·9	4·29	11·07	− 6·78	22·34	19·59	+ 2·75	0·80	Dibrugarh.
6	6	11	3	0	1	1	0	2	N 33° E	N 48° E	1·7	2·4	−0·7	53	0	92	+ 1	·623	−·048	7·4	+0·2	15	+ 0·5	7·78	10·34	− 2·56	18·37	18·95	− 0·58	1·12	Sibsagar.
7	0	11	12	0	0	0	0	0	N 69° E		3·9			69		85	+ 1	·615	−·025	4·9	−0·7	7	− 6·3	4·26	6·93	− 2·67	12·98	10·96	+ 2·02	1·27	Tezpur.
4	0	0	23	2	0	1	0	0	S 85° E		1·0			79		83	+ 1	·652	−·005	3·5	−2·4?	14	+ 1·7	6·07	7·05	− 0·98	14·88	11·27	+ 3·61	1·32	Gauhati.
1	0	13	15	1	0	0	0	0	N 71° E	N 72° E	7·9	6·4	+1·5	86	+23	82	+ 3	·663	−·016	5·5	+0·6	10	+ 2·0	8·09	4·90	+ 3·19	11·39	7·95	+ 3·44	2·26	Dhubri.
23	0	2	4	1	0	0	0	0	N 83° E	N 82° E	2·2	2·5	−0·3	20	− 5	81	− 2	·696	−·025	4·2	−1·5	17	+ 2·5	8·21	14·73	− 6·52	24·07	25·20	− 2·18	1·67	Silchar.
																82	− 4	·746	−·026	2·8		12	− 0·1	11·90	11·59	+ 0·31	25·82	18·10	+ 7·72	2·60	Srimangal.
																															III.—Bengal.
10	0	2	6	9	3	0	0	0	S 59° E		3·1			53		85		·856		3·5		2	− 2·6	2·48	4·44	− 1·96	8·03	7·35	+ 0·68	1·95	Cox's Bazar.
8	0	3	7	9	2	0	0	0	S 65° E	S 47° E	2·8	5·0	−2·2	53	− 4	87	+ 7	·832	+·005	4·7	+0·2	4	− 1·4	2·46	5·08	− 2·62	8·08	9·89	− 1·81	1·25	Chittagong.
5	0	0	2	11	7	2	2	0	S 24° E		2·5			60		83	+ 2	·856	−·002	3·7	−0·1	3	− 3·0	5·32	6·05	− 0·73	13·58	10·58	+ 3·00	2·58	Noakhali.
9	0	0	0	5	8	8	0	0	S 7° W	S 8° W	2·9	4·2	−1·3	56	+ 1	85	+ 3	·875	−·019	5·1	+0·5	5	− 0·3	3·05	4·33	− 1·28	10·08	8·61	+ 1·47	0·97	Barisal.
3	0	0	3	5	14	4	1	0	S 8° E	S 10° E	4·3	5·3	−1·0	66	+ 9	81	− 2	·821	−·024	5·2	−0·8	7	+ 0·3	6·14	5·22	+ 0·92	18·99	9·79	+ 9·20	2·42	Narayanganj.
11	0	3	14	2	0	0	0	0	N 88° E	S 63° E	2·5	3·1	−0·6	56	−14	81	0	·730	−·035	6·3	+0·5	6	− 1·2	5·09	5·90	− 0·81	10·98	9·58	+ 1·40	1·97	Mymensingh.
7	0	0	18	0	1	3	1	0	S 78° E	S 63° E	1·8	3·4	−1·6	49	−10	82	+ 5	·778	+·034	5·9	+2·3?	3	− 0·7	1·52	2·30	− 0·78	4·95	4·92	+ 0·03	0·66	Bogra.
2	0	10	14	1	0	1	2	0	N 73° E	N 86° E	4·1	4·1	0	66	+16	73	+ 1	·659	−·000	3·6	−0·6	2	− 1·1	1·69	2·11	− 0·42	4·22	3·96	+ 0·26	0·95	Dinajpur.
1	0	8	12	7	2	0	0	0	S 87° E	N 88° E	1·7			76	+ 9	77	+ 2	·658	−·001	2·7	−0·4	2	− 3·6	1·92	3·71	− 1·79	3·86	6·40	− 2·54	0·93	Jalpaiguri.

Table

(2) Abstract of observations taken at 8 hrs. at 211

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
	III.—Bengal—*concld.*																					
	Saugor Island	10	29·835	+·016	29·790	29·932	14th	29·718	27th	82·6	78·0	87·6	−2·9	78·9	−0·8	83·2	−1·9	8·7	94·3	20th	71·1	4th
	Midnapore	149	29·677	+·010	29·775	29·782	14th	29·559	27th	80·9	74·8	96·7	−4·3	75·4	−0·6	86·1	−2·5	21·3	105·1	20th	69·7	12th
	Calcutta	21	29·812	+·009	29·780	29·914	14th	29·691	27th	81·4	77·2	94·2	−1·4	76·7	+1·0	85·5	−0·2	17·5	103·3	20th	69·3	12th
	Jessore	30	29·815	+·020	29·791	29·918	14th	29·697	27th	80·3	75·8	94·0	−2·7	74·7	−0·2	84·3	−1·5	19·3	101·5	30th	66·1	12th
	Burdwan	99	29·703	−·010P	29·750	29·806	14th	29·560	27th	78·8	74·3	96·8	−3·4	74·6	−0·8	85·7	−2·1	22·2	105·2	30th	67·8	12th
	Berhampore	67	29·766	+·024	29·782	29·869	14th	29·637	27th	80·5	74·4	97·8	−1·7	74·0	−0·3	85·9	−1·0	23·8	106·6	29th	65·1	14th
	IV.—Bihar and Orissa.																					
5	Balasore	50	29·779	+·005	29·775	29·872	14th	29·652	26th	80·4	75·9	95·3	−1·6	75·4	−0·5	85·2	−1·1	19·9	103·0	18th & 26th.	69·5	27th
	Hukitala (False Point)	29	29·836	+·019	29·806	29·928	14th	29·729	26th													
	Cuttack	80	29·781	+·027	29·802	29·872	10th	29·661	26th	82·0	77·3	99·6	−2·0	77·9	+0·1	88·7	−0·9	21·7	109·5	30th	70·4	10th
	Puri	24	29·858	+·026	29·823	29·951	9th	29·742	27th	82·3	78·7	88·0	+0·1	79·7	+1·1	83·8	+0·6	8·3	89·9	12th	72·8	10th
	Angul	455	29·393	+·023	29·794	29·525	10th	29·271	26th	81·3	73·6	100·9	−0·1	72·7	−1·4	86·8	−0·7	28·2	109·6	26th	61·4	15th
	Sambalpur	486	29·349	+·007	29·782	29·452	10th	29·232	26th	83·5	70·8	101·7	−1·9	74·0	−1·4	87·8	−1·7	27·7	110·6	27th	65·7	1st
7	Chaibasa	733	29·085	+·011	29·769	29·184	14th	28·973	25th	81·3	69·5	101·9	−0·8	74·4	−1·0	88·1	−0·9	27·5	110·1	26th	63·0	1st
	Ranchi	2,133	27·713	+·011	29·742P	27·804	14th	27·609	25th	80·8	63·2	95·9	−0·4	72·4	+0·5	84·1	+0·1	23·5	103·6	26th	63·1	1st
	Purulia	816	29·010	+·028	29·772	29·118	14th	28·896	25th	82·7*	70·2*	102·1	+0·3	75·3	+0·9	88·7	+0·6	26·8	110·0	25th	65·3	1st
	Daltonganj	730	29·085	+·013	29·770	29·197	9th	28·961	26th	79·7	65·3	103·1	+2·2	69·5	−0·8	86·3	+0·7	33·6	111·1	26th	60·4	14th
8	Purnea	121	29·701	+·016	29·779	29·826	14th	29·570	29th	77·4	68·9	96·6	−0·2	68·1	−1·7	82·4	−0·9	28·5	104·3	30th	58·0	11th
	Monghyr	155	29·655		29·763	29·760	14th	29·531	27th	79·1	68·6	98·3		71·3		84·8		27·0	105·2	21st	61·9	1st
	Darbhanga	165	29·660	+·029	29·782	29·766	14th	29·526	27th	78·9	67·2	98·2	+2·1	69·3	−1·9	83·7	+0·1	28·9	106·0	29th	59·9	13th
	Pusa	188	29·625		29·769	29·734	8th	29·489	27th	79·7	67·8	100·5		68·6		84·5		31·9	108·6	29th	59·6	1st
	Patna	183	29·633	+·028	29·771	29·729	14th	29·513	27th	81·7	66·5	97·6	−2·2	72·7	−0·7	85·2	−1·5	24·9	105·3	29th	64·4	1st
	Buxar	239	29·552	+·009	29·749P	29·651	14th	29·434	27th	79·3	63·6	101·3	+1·2	72·4	−1·2	86·8	0	28·9	109·3	25th	64·0	13th
	Gaya	372	29·443	+·029	29·767	29·551	14th	29·321	26th	84·6	65·6	101·9	−0·8	76·1	+1·0	89·0	+0·1	25·8	109·9	25th	68·8	14th
	Naya Dumka	489	29·325	+·017	29·764	29·430	14th	29·212	26th	83·9	69·7	100·5	+0·6	73·7	−0·4	87·1	+0·1	26·8	108·2	21st	64·6	14th
	V.—United Provinces of Agra and Oudh.																					
	Gorakhpur	257	29·553	+·024	29·769	29·649	4th	29·426	27th	79·7	64·7	100·3	+0·4	69·8	−2·1	85·1	−0·9	30·5	107·9	29th	61·1	14th
	Benares	267	29·545	+·025	29·764	29·654	6th	29·434	26th	84·8	65·7	102·5	0	69·9	−1·7	86·2	−0·9	32·6	111·6	25th	60·8	10th
	Allahabad	369	29·516	+·026	29·779	29·638	13th	29·410	25th	84·1	63·8	103·8	+0·6	71·4	−0·8	87·6	−0·1	32·4	112·4	25th	60·3	7th
	Cawnpore	416	29·398	+·023	29·772	29·519	6th	29·281	24th	80·9	63·2	101·4	+0·5	71·3	−0·7	86·4	−0·1	30·1	109·8	25th	62·9	9th & 12th,
	Lucknow	368	29·432	+·021	29·756	29·526	6th	29·314	27th	83·1	64·7	103·0	+1·2	69·1	−1·6	86·0	−0·2	33·9	113·5	25th	59·0	13th
	Bahraich	407	29·380	+·016	29·751	29·480	1st	29·224	26th	78·9	63·5	100·2	+1·1	67·7	−1·6	83·9	−0·2	32·5	107·9	25th	56·8	7th
10	Jhansi	824	29·012	+·015	29·783	29·121	6th	28·911	24th	83·5	63·3	103·0	−0·2	72·1	−4·8P	87·5	−2·5P	30·9	109·9	24th	61·1	7th
	Agra	556	29·258	+·019	29·771	29·360	6th	29·129	24th	84·8	63·5	101·2	0	71·4	−2·0	86·3	−1·0	29·8	110·4	24th	62·7	6th
	Mainpuri	516	29·289	+·021	29·764	29·405	6th	29·161	24th	81·6	61·5	102·5	+1·4	68·8	−0·8	85·7	+0·3	33·7	111·0	25th	59·1	8th & 12th,
	Bareilly	568	29·218	+·019	29·750	29·378	6th	29·080	30th	79·1	63·8	99·9	+1·4	68·9	+0·1	84·4	+0·7	31·0	109·2	25th	61·2	8th
	Roorkee	899	28·690	+·022	29·761	28·968	6th	28·758	30th	77·3	60·0	98·6	−0·2	65·2	−1·5	80·4	−0·9	32·4	105·5	24th	52·2	8th

* Mean of 29 days.

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

B—*continued.*

stations in India, etc., in April, 1920—*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. 1919 to 30th April 1920.	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.*
0	2	0	0	0	10	16	1	1	S 35° W	S 18° W	11·6	8·5	+3·1	76	−1	81	0	·897	−·028	5·4	−0·1	1	−1·1	0·32	1·19	−0·87	8·08	4·39	+3·69	0·20	Saugor Island.
1	1	1	0	3	21	2	0	0	S 2° E		3·4			77		74	+ 5	·780	+·018	4·6	+2·9?	5	+1·6	1·46	1·95	−0·49	7·79	5·43	+2·36	0·37	Midnapore.
0	0	0	0	2	8	20	1	1	S 35° W	S 25° W	4·9	5·1	−0·2	82	+12	82	+ 4	·882	+·028	4·8	+1·2	0	−3·3	0·04	1·80	−1·76	7·79	4·92	+2·87	0·02	Calcutta.
13	0	0	0	5	7	4	1	0	S 1° W	S 1° E	2·0	3·0	−1·0	44	− 8	81	0	·834	−·036	4·2	−0·5	1	−3·9	0·58	3·50	−2·92	9·54	7·57	+1·97	0·46	Jessore.
9	0	1	0	2	4	9	5	0	S 40° W	S 27° W	1·6	3·5	−1·9	46	−14	80	+ 8	·796	+·024	5·1	+1·5	1	−2·5	0·43	2·11	−1·68	11·68	5·47	+6·21	0·28	Burdwan.
4	0	1	2	7	10	6	0	0	S 5° E	S 2° E	3·2	3·5	−0·3	53	− 4	74	0	·771	+·010	4·5	+0·6	2	−0·7	0·76	1·45	−0·69	5·37	3·96	+1·41	0·47	Berhampore.
																															IV.—Bihar and Orissa.
3	0	0	0	0	15	12	0	0	S 10° W	S 29° W	4·1	6·3	−2·2	82	+27	81	+ 6	·833	−·002	4·1	+1·5	4	+0·3	2·23	2·07	+0·16	9·48	6·38	+3·10	1·06	Balasore.
0	1	0	0	1	12	14	0	2	S 28° W	S 38° W	11·8	10·1	+1·7	76	− 1					6·6	+1·2	0	−1·6	0·03	0·81	−0·78	3·93	4·05	−0·12	0·03	Hukitala (False Point).
6	0	0	0	0	1	16	6	1	S 58° W	S 39° W	2·9	3·7	−0·8	66	+ 6	80	+ 6	·876	+·040	4·4	+0·8	0	−1·8	0·04	1·16	−1·12	4·74	3·50	+1·24	0·62	Cuttack.
0	1	1	0	0	10	14	3	1	S 37° W		12·5			70		84	− 1	·934	+·022	2·9	−0·6	0	−1·3	0	0·66	−0·66	4·38	2·55	+1·83	0	Puri.
8	0	8	2	2	2	2	1	4	N 45° E		4·7			13		68	+ 1	·733	+·024	4·9	+2·6?	3	−0·2	0·92	1·58	−0·66	3·33	4·94	−1·61	0·45	Angul.
0	3	7	2	3	4	9	0	2	S 22° E	S 87° E	2·6	2·8	−0·2	10	0	52	+ 2	·582	−·014	2·6	+0·4	4	+2·5	1·04	0·65	+0·39	3·58	2·94	+0·64	0·35	Sambalpur.
17	0	0	1	0	5	7	0	0	S 23° W	S 62° W	2·7	1·9	+0·8	37	−22	55	− 6	·565	−·080	3·6	+1·9	3	+0·4	0·50	1·37	−0·87	4·38	4·89	−0·51	0·21	Chaibass.
2	0	0	0	1	2	8	16	1	S 70° W	S 51° W	3·4	5·4	−2·0	76	+28	36	− 6	·362	−·071	1·9	0	2	−0·6	0·34	0·97	−0·63	3·50	4·93	−1·43	0·13	Ranchi.
15	0	0	0	0	0	4	11	0	S 78° W		1·3			47		53*	− 1	·589*	+·031	2·3	+0·1	1	−1·6	0·23	1·10	−0·87	4·78	4·70	+0·08	0·19	Purulia.
23	1	0	3	0	0	1	0	2	N 27° E		3·3			7		44	− 2	·430	−·040	1·1	−0·6	0	−1·0	0	0·45	−0·45	3·06	3·40	−0·34	0	Daltonganj.
0	1	6	19	0	0	2	2	0	N 79° E	N 68° E	4·0	3·4	+0·6	66	+ 6	64	− 4	·599	−·049	3·3	+0·9	0	−1·9	0·04	1·20	−1·16	3·03	2·96	+0·07	0·02	Purnea.
5	0	1	7	11	0	5	1	0	S 45° E		7·3			50		58		·567		1·2		0	−1·2	0	0·84	−0·84	1·52	3·14	−1·62	0	Monghyr.
13	0	0	17	0	0	0	0	0	E	S 67° E	4·1	4·2	−0·1	57	+ 4	53	−12	·523	−·108	0·6	−0·8	0	−1·5	0	0·71	−0·71	2·36	2·37	−0·01	0	Darbhanga.
1	4	6	11	1	1	4	2	0	N 70° E		4·0			40		52		·526		0·5		3	+1·3	0	0·93	−0·93	2·83	2·65	+0·18	0	Pusa.
5	0	0	14	1	0	1	9	0	S 75° E	S 81° E	4·9	3·6	+1·3	17	− 3	43	− 8	·453	−·091	1·0	−0·5	0	−0·6	0·04	0·32	−0·28	1·81	2·20	−0·39	0·04	Patna.
2	0	1	6	4	1	9	6	1	S 18° W		4·4			30		40	− 2	·391	−·056	1·6	0	0	−0·4	0·06	0·17	−0·11	1·61	2·17	−0·56	0·06	Buxar.
3	2	2	1	3	3	13	3	0	S 35° W	S 24° W	2·6	3·5	−0·9	46	+13	33	−18?	·387	−·206?	0·9	−1·1	0	−0·5	0	0·22	−0·22	1·84	2·37	−0·53	0	Gaya.
29	0	0	1	0	0	0	0	0	E		1·9			3		47	− 5	·552	−·025	2·6	+0·8	1	−1·0	0·36	0·94	−0·58	4·33	3·33	+1·00	0·33	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
11	0	0	9	0	0	1	9	0	S 45° W	N 57° E	3·0	2·6	+0·4	3	− 8	42	−11	·421	−·127	0·2	−1·6	0	−0·8	0	0·42	−0·42	1·17	2·30	−1·13	0	Gorakhpur.
4	0	1	2	6	0	6	9	2	S 51° W	S 53° W	2·5	2·6	−0·1	33	+11	32	−15	·381	−·120	1·4	−0·2	0	−0·4	0	0·18	−0·18	1·31	2·13	−0·82	0	Benares.
7	0	0	3	1	2	3	13	1	S 72° W	N 86° W	2·6	3·9	−1·3	43	+21	29	− 7	·329	−·080	0·7	−1·2	0	−0·5	0	0·16	−0·16	1·04	2·04	−1·00	0	Allahabad.
6	3	1	0	1	2	4	5	8	N 73° W	S 79° W	2·3	3·0	−0·7	43	+24	33	− 7	·349	−·085	0·3	−0·6	0	−0·5	0	0·22	−0·22	1·46	1·98	−0·52	0	Cawnpore.
14	0	3	1	1	0	5	1	5	N 71° W	N 81° W	1·5	2·9	−1·4	13	− 7	33	− 6	·377	−·042?	0·4	−1·5	0	−0·6	0	0·28	−0·28	1·02	2·41	−1·39	0	Lucknow.
7	1	0	10	1	0	0	1	10	N 20° E	N 55° E	2·5	3·0	−0·5	27	+21	39	−12	·389	−·149	0·7	−0·8	1	+0·3	0·20	0·34	−0·14	1·39	3·23	−1·84	0·20	Bahraich.
7	4	0	0	0	1	7	4	7	N 78° W	S 87° W	3·6	2·6	+1·0	46	+16	28	− 7	·320	−·116	0·4	−0·6	0	−0·6	0	0·16	−0·16	0·76	1·82	−1·06	0	Jhansi.
9	1	1	1	1	2	4	7	4	S 84° W	S 89° W	2·7	3·7	−1·0	33	− 4	25	−11	·297	−·095	1·0	−0·5	0	−0·8	0	0·23	−0·23	1·98	1·91	+0·07	0	Agra.
3	6	2	1	1	2	3	3	9	N 43° W	S 74° W	1·9	1·8	+0·1	40	+26	26	−15	·280	−·124	1·0	−1·2	0	−0·7	0	0·39	−0·39	1·54	2·49	−0·95	0	Mainpuri.
10	2	1	0	1	0	2	8	8	N 62° W	N 20° W	2·4	2·7	−0·3	43	+35	39	− 8	·393	−·058	2·3	+0·4	0	−0·7	0	0·31	−0·31	1·98	3·37	−1·39	0	Bareilly.
18	0	0	0	5	0	0	0	7	N 45° W	S 60° E	3·0	2·4	+0·6	3	− 4	31	−11	·290	−·084	0·8	−0·9	0	−1·1	0	0·47	−0·47	2·32	5·16	−2·84	0	Roorkee.

Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

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
	VI.—Punjab.																					
11	Delhi	718	29·093	+·028	29·781	29·217	6th	28·994	24th	77·4	60·1	96·4	−2·2	71·8	−1·2	84·1	−1·7	24·6	106·0	24th	63·8	6th
	Hissar	725	29·100	+·046	29·793	29·248	6th	28·988	27th	78·7	62·1	98·5	−1·1	64·8	−3·0	81·5	−2·1	33·5	108·5	21th	54·2	12th
	Patiala *	*818*	28·949	−·015?	29·739?	29·091	6th	28·851	30th	77·4	63·1	94·2	0	65·9	−0·7	80·1	−0·3	28·3	103·4	24th	56·8	9th
	Ambala	892	28·892	+·014	29·756	29·019	6th	28·780	30th	78·2	59·3	97·2	+1·9	67·3	+1·8	82·3	+1·9	30·0	105·6	23rd & 24th.	57·4	7th
	Ludhiana	812	29·984	+·027	29·776	29·144	6th	28·879	30th	73·9	58·6	95·4	−0·6	65·4	−1·4	80·4	−1·0	30·0	103·5	23rd	53·4	7th
	Lahore	702	29·098	+·026	29·784	29·262	6th	28·972	30th	72·9	61·1	92·2	−4·3	63·9	−0·6	78·0	−2·5	28·3	101·7	30th	52·3	6th
	Sialkot	830	28·969	+·024	29·789	29·131	6th	28·839	20th	70·2	60·5	87·4	−6·6	60·1	−5·8?	73·8	−6·2?	27·3	98·5	30th	48·6	6th
	Rawalpindi	1,674	28·169	+·035	29·839	28·300	6th	28·070	4th	68·4	57·9	82·3	−4·6	57·3	−2·1	69·8	−3·3	25·0	93·9	30th	48·0	6th & 8th.
12	Khushab	612	29·221	+·043	29·812	29·380	5th	29·092	30th	76·5	59·9	91·5	−1·9?	64·1	−2·9	77·8	−2·4?	27·4	102·2	30th	52·2	6th
	Lyallpur	605	29·209		29·795	29·368	6th	29·089	30th	72·8	59·6	90·9		60·4		75·7		30·5	100·7	23rd	49·1	5th
	Montgomery	558	29·258	+·036	29·793	29·410	6th	29·156	30th	75·6	60·0	92·6	−4·6	63·6	−3·3	78·1	−3·9	29·0	101·5	23rd	52·3	5th
	Multan	426	29·397	+·031	29·796	29·558	5th	29·293	19th	74·0	62·3	93·6	−4·3	67·1	−1·3	80·4	−2·8	26·5	101·8	23rd	56·6	5th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·761	+·032	29·894	28·892	6th	28·615	30th	61·7†	56·5†	81·5†	−4·0†	55·7†	−4·6†	68·6†	−4·3	25·8	92·4	30th	47·5	th
	D.I. Khan	590	29·271	+·042	29·845	29·440	5th	29·128	30th	73·1	62·4	90·3	−3·0	64·1	−1·1	77·2	−2·1	26·2	98·4	30th	51·9	6th
	VIII.—Sind.																					
16	Jacobabad	186	29·652	+·049	29·798	29·819	5th	29·536	3rd	82·4	63·7	101·7	+2·1	68·8	−0·9	85·3	+0·6	32·9	112·9	15th	54·2	6th
	Hyderabad	96	29·738	+·019	29·789	29·892	7th	29·629	23rd	78·8	65·6	100·8	−1·2	70·1	−2·0	85·4	−1·6	30·7	108·2	20th	57·9	5th
	Karachi	13	29·868	+·032	29·832	29·991	6th	29·781	27th	78·6	72·0	86·9	+1·6	73·5	−0·5	80·2	+0·5	13·4	96·5	28th	65·6	5th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·059	+·046	29·798	29·223	6th	28·950	30th	79·0	62·5	98·8	−1·4	69·1	−5·8?	84·0	−2·6?	29·7	109·0	23rd	57·9	6th
	Jodhpur	780	29·064	+·077?	29·803	29·197	5th	28·971	30th	80·8	58·4	100·5	−6·0?	70·6	−2·0	85·5	−4·0?	29·9	107·7	23rd	59·6	9th
18	Jaipur	1,431	28·422	+·025	28·798	28·546	6th	28·325	24th	81·5	59·5	99·0	−1·2	67·8	−2·8	83·4	−2·0	31·2	105·8	23rd	57·3	11th
	Ajmer	1,611	28·233	−·002?	29·795	28·340	6th	28·154	22rd	76·3	59·3	96·5	−1·9	68·9	−2·9	82·7	−2·4	27·6	104·8	23rd	57·4	9th
	Kotah	832	29·002	+·018	29·781	29·134	6th	28·910	27th	86·6	61·6	101·7	−0·2	74·9	−1·6	88·3	−0·9	26·8	109·6	24th	65·2	9th
	X.—Bombay.																					
20	Deesa	466	29·397	+·013	29·818	29·506	5th	29·332	27th	80·6	63·8	104·7	+0·9	69·1	−2·4	86·9	−0·7	35·6	111·0	22nd	58·8	6th
	Bhuj	334	29·544	+·022	29·829	29·652	5th	29·476	27th	81·6	72·9	99·6	−0·8	69·3	−2·2	84·4	−1·5	30·3	105·6	20th	61·5	6th
	Jamnagar	61	29·837	+·014	29·844	29·948	5th	29·780	27th	80·3	73·7	95·6	+0·3	69·4	−1·2	82·5	−0·5	26·2	102·9	29th	62·2	19th
	Dwarka	37	29·869	+·009	29·852	29·960	5th	29·799	27th	80·2	74·3	86·1	+1·3	77·5	+1·5	81·8	+1·4	8·6	88·3	25th & 29th.	74·0	6th
	Rajkot	429	29·446	0	29·826	29·541	5th	29·365	27th	79·7	68·0	101·4	−0·8	70·0	+0·9?	85·7	+0·1	31·4	105·8	20th & 30th.	58·7	7th
	Veraval	*18*	29·833	+·015	29·844	29·977	5th	29·817	26th	77·7	71·4	85·7	−0·7	71·9	−0·4	78·8	−0·5	13·8	97·3	9th	64·1	8th
	Bhavnagar Para	55	29·823	−·001	29·824	29·915	4th	29·753	25th	81·9	66·2	101·5	−0·4	71·7	−2·9?	86·6	−1·7?	29·8	108·6	22nd & 23rd.	62·0	6th
	Surat	39	29·851	+·002	29·833	29·953	4th	29·779	26th	82·8	78·1	99·1	−0·7	72·5	−0·6	85·8	−0·7	26·6	105·2	22nd	64·9	8th
	Ahmadabad	163	29·721	+·016	29·833	29·810	5th	29·658	25th	83·5	67·0	105·7	+1·1	73·7	−1·2	89·7	−0·1	32·0	110·9	20th	65·2	6th
25	Bombay	37	29·869	+·004	29·847	29·949	4th	29·800	30th	80·9	75·6	89·5	+0·9	77·7	+0·2	83·6	+0·5	11·8	92·0	22nd	73·3	12th
	Ratnagiri	207	29·686	−·003	29·832	29·750	14th	29·619	30th	82·0	74·8	89·0	−0·7	77·4	+0·3	83·2	−0·2	11·6	90·9	24th & 28th.	71·7	11th
	Marmagao	*60*	29·845	0	29·839	29·904	4th	29·774	27th	82·7	77·2	88·6	−0·8	77·5	−1·7	83·1	−1·2	11·1	92·5	20th	73·0	20th
	Karwar	44	29·862	+·006	29·843	29·912	4th	29·789	27th	79·9	75·3	90·5	+1·0	76·1	−1·4	83·3	−0·2	14·4	92·7	6th	71·5	6th

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

Mean of 29 days.
" " 28 "

B—*continued.*

in India, etc., in April, 1920—*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 1919 to 30th April 1920.	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.
8	2	2	0	0	3	1	8	6	N 71° W	N 77° W	2·1	2·8	−0·7	40	+ 3	31	− 8	·291	−·089	0·5	−1·5	0	−0·9	0·02	0·42	−0·40	2·28	3·26	−0·98	0·02	Delhi.
1	6	2	0	4	8	3	2	4	S 45° W	N 28° W	5·0	3·9	+1·1	13	+11	34	− 8	·341	−·065	1·1	−1·1	0	−0·7	0	0·34	−0·34	1·76	2·19	−0·43	0	Hissar.
2	5	4	1	5	1	0	3	8	N 6° W		5·3*			31		43	− 4	·403	−·042	2·2	0	0	−1·3	0	0·48	−0·48	6·87	4·89	+1·98	0	Patiala.
2	12	1	2	6	1	0	1	5	N 12° E	N 18° W	5·1	2·3	+2·8	37	+28	27	−24†	·256	−·184†	2·8	+0·9	0	−1·7	0·01	0·50	−0·49	4·26	5·56	−1·30	0·01	Ambala.
22	4	2	0	0	1	0	0	1	N 8° E	N 27° E	2·0	1·8	+0·2	17	+10	35	−11	·292	−·126	1·5	−0·9	0	−1·4	0	0·80	−0·80	3·39	5·77	−2·38	0	Ludhiana.
7	4	6	2	2	0	0	3	6	N 2° E	N 31° E	2·5	2·3	+0·2	37	+17	48	− 2	·383	−·049	2·9	+0·3	0	−1·5	0·04	0·52	−0·48	3·33	3·85	−0·52	0·03	Lahore.
4	8	6	1	0	0	2	2	7	N 11° W	N 20° E	2·6	2·0	+0·6	53	+20	55	+ 4†	·400	−·036	3·2	+1·2	1	−1·1	0·31	0·92	−0·61	6·91	7·01	−0·10	0·24	Sialkot.
9	3	1	1	2	0	3	9	2	N 8° W	N 30° W	3·8	2·3	+1·5	30	+ 1	52	− 4	·351	−·057	1·6	−1·8	2	−1·9	0·76	1·90	−1·14	9·76	10·17	−0·41	0·44	Rawalpindi.
6	5	6	5	1	2	3	1	1	N 50° E	N 37° E	5·7	4·9	+0·8	27	−10	34	− 9	·303	−·090	3·4	+1·2	2	−0·3	0·29	1·05	−0·76	4·31	4·45	−0·14	0·16	Khushab.
7	0	7	3	2	0	1	3	7	N 5° E		2·4			27		42		·338		3·5		0	−1·6	0·05	0·64	−0·59	2·41	2·83	−0·42	0·05	Lyallpur.
0	3	6	4	3	2	0	1	6	N 23° E	N 83° E	4·7	4·6	+0·1	43	+17	36	− 1	·313	−·054	2·4	+0·2	0	−0·9	0·07	0·31	−0·24	1·75	2·27	−0·52	0·06	Montgomery.
8	1	2	0	4	2	4	0	9	N 77° W	N 51° E	1·6	1·6	0	17	− 6	49	+ 2	·412	−·031	2·7	+0·9	0	−0·8	0·15	0·23	−0·08	2·13	1·70	+0·43	0·08	Multan.
																															VII. North-West Frontier Province.
27	0	1	0	0	2	0	0	0	S 30° E	S 54° W	0·9	2·9	−2·0	3	− 7	72	+11	·397	−·055	2·0	−1·7	2	−2·1	1·26	1·90	−0·64	13·13	7·62	+5·51	0·66	Peshawar.
9	0	10	0	0	0	0	0	11	N 3° W	N 5° E	2·4	1·8	+0·6	49	+16	52	− 4	·420	−·070	3·0	+0·5	1	−0·7	0·25	0·77	−0·52	1·56	3·28	−1·72	0·23	D. I Khan.
																															VIII.—Sind.
20	0	2	0	5	0	1	0	2	S 63° E	N 88° E	0·7	3·1	−2·4	10	−17	31	−10	·312	−·103	0·5	−1·5	0	−0·5	0	0·15	−0·15	0·78	1·16	−0·38	0	Jacobabad.
10	8	0	0	0	3	7	1	1	N 83° W	S 48° W	3·7	7·9	−4·2	23	−24	48	+ 1	·456	−·048	0	−1·5	0	−0·1	0	0·04	−0·04	0·48	0·89	−0·41	0	Hyderabad.
2	3	1	1	0	0	5	13	5	N 78° W	N 89° W	8·9	9·6	−0·7	59	− 2	71	− 8	·703	−·065	1·6	−0·8	0	−0·2	0	0·18	−0·18	0·45	1·62	−1·17	0	Karachi.
																															IX.—Rajputana.
2	0	1	5	8	6	3	2	3	S 25° E	S 51° W	5·2	4·3	+0·9	40	+18	35	− 3	·355	−·064	1·2	−0·8	1	+0·6	0·90	0·16	+0·74	0·97	1·31	−0·34	0·90	Bikaner.
10	0	9	2	0	0	6	2	1	N 27° E		3·4			10		18	−11	·194	−·113	0·9	−1·1	0	−0·4	0	0·12	−0·12	0·30	0·70	−0·40	0	Jodhpur.
6	8	2	2	1	0	2	3	6	N 21° W	N 34° W	3·5	3·7	−0·2	40	+ 6	22	−11	·235	−·129	1·2	−1·1	0	−0·5	0	0·17	−0·17	2·39	1·56	+0·83	0	Jaipur.
19	1	3	0	0	0	3	4	0	N 76° W	W	2·9	4·2	−1·3	43	−18	34	− 5	·300	−·116	0·5	−1·4	0	−0·4	0	0·17	−0·17	1·54	1·34	+0·20	0	Ajmer.
14	3	3	1	3	0	1	3	2	N 1° E		2·5			12		17	− 8	·218	−·092	1·0	−0·2	1	+0·4	0·11	0·33	−0·22	1·35	1·38	−0·03	0·11	Kotah.
																															X.—Bombay.
1	3	5	6	1	2	2	8	2	N 9° W	N 88° W	5·4	6·6	−1·2	13	−17	36	− 5	·385	−·072	1·2	−0·1	0	−0·1	0	0·03	−0·03	0·03	0·44	−0·41	0	Deesa.
7	1	0	0	0	0	0	22	0	N 87° W	N 75° W	5·3	8·5	−3·2	72	− 5	65	+ 6	·690	+·054	0·2	−1·1	0	−0·1	0	0·08	−0·08	0·12	0·47	−0·35	0	Bhuj.
0	1	1	2	0	0	2	16	8	N 74° W		7·3			71		72	+ 4	·749	+·041	0·3	−0·8	0	−0·1	0	0·05	−0·05	0	0·45	−0·45	0	Jamnagar.
0	3	0	0	0	0	4	15	8	N 76° W		9·5			79		75	− 5	·777	−·045	1·1	−1·0	0	−0·1	0	0·07	−0·07	0·54	0·82	−0·28	0	Dwarka.
0	3	1	0	0	0	4	17	5	N 79° W	N 66° W	7·4	7·6	−0·2	76	+ 3	54	− 1	·540	−·117	3·3	+2·1†	0	−0·1	0	0·03	−0·03	0·14	0·30	−0·16	0	Rajkot.
2	9	0	0	0	0	0	9	10	N 45° W	N 47° W	8·3	6·1	+2·2	72	+ 9	73	− 1	·697	−·032	1·0	−1·3	0	0	0	0	0	0·74	0·24	+0·50	0	Veraval.
0	2	2	0	0	0	3	9	14	N 60° W	S 66° W	4·4	7·7	−3·3	75	+ 8	40	−16†	·443	−·167†	1·1	−0·4	0	−0·2	0	0·10	−0·10	3·20	0·44	+2·76	0	Bhavnagar Para.
8	6	2	0	3	6	2	1	2	S 23° E	S 61° W	2·6	5·4	−2·8	7	−33	62	− 2	·699	−·025	1·2	−0·3	0	−0·1	0	0·04	−0·04	3·89	0·23	+3·66	0	Surat.
11	0	4	0	2	0	0	1	12	N 28° W	N 45° W	2·5	3·4	−0·9	37	− 4	40	− 7	·451	−·088	0·3	−1·3	0	−0·1	0	0·04	−0·04	0	0·28	−0·28	0	Ahmedabad.
0	4	6	5	3	4	2	1	5	N 53° E	N 33° E	6·0	7·7	−1·7	20	+10	77	+ 2	·814	−·003	2·5	−0·6	0	−0·1	0	0·05	−0·05	1·32	0·27	+1·05	0	Bombay.
5	2	2	0	1	1	4	1	7	N 32° W	N 81° W	7·6	6·1	+1·5	43	+23	69	− 1	·759	−·028	3·8	+1·3	0	−0·3	0	0·09	−0·09	0·06	0·34	−0·28	0	Ratnagiri.
4	5	1	3	1	1	1	4	1	N 14° W	N 5° W	9·6†	6·2	+3·4	13	+ 9	77	+ 2	·861	−·005	5·5	+1·8	5	+4·1	3·59	0·74	+2·85	6·03	0·99	+5·04	1·31	Marmagao.
28	2	0	0	0	0	0	0	0	N	N 9° W	2·6	3·5	−0·9	7	−36	80	+ 2	·816	−·005	4·0	+1·2	3	+2·0	2·63	0·51	+2·12	3·22	0·82	+2·40	1·82	Karwar.

* Mean of 28 days.

† „ „ 21 „

Table

(2) Abstract of observations taken at 8 hrs. at 211 station

Number of sub-division.	Station.	Height of bar-distern 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 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	28·446	+·006	29·799	28·523	14th	28·379	30th	84·9	65·8	104·3	+1·1	70·1	−1·2	87·2	−0·1	34·2	109·1	24th & 26th.	57·6	5th
	Ahmadnagar	2,154	27·753	+·002	29·789	27·803	14th	27·688	30th	82·1	61·6	100·5	+0·8	69·1	−0·6	84·8	+0·1	31·4	105·6	26th	59·3	10th
	Poona	1,846	28·077	+·024?	29·845	28·116	4th & 14th.	28·016	30th	79·5	63·4	99·8	−1·6	67·6	−1·6	83·7	−1·6	32·2	104·0	23rd, 24th & 26th.	58·0	11th
	Sholapur	1,590	28·228	+·004	29·781	28·356	4th	28·215	25th	85·7	62·2	103·0	−1·4	76·0	+0·7	89·6	−0·3	27·0	106·2	26th	67·9	11th & 12th.
	Bijapur	*1,948*	27·947	+·009	29·785	28·014	4th	27·875	30th	83·5	68·1	100·4	−0·3	76·0	+1·5	88·2	+0·6	24·4	103·4	27th	69·1	11th
	Belgaum	2,562	27·381	+·012	29·633	27·428	4th	27·330	26th & 30th.	76·0	65·1	95·7	−0·2	68·4	+1·3	82·1	+0·6	27·3	99·5	1st	64·4	3rd & 10th.
	XI.—Central India.																					
20	Neemuch	1,626	28·237	+·007	29·779	28·340	13th	28·159	27th	84·9	65·6	99·2	−0·6	69·2	−1·8	84·2	−1·2	30·0	106·0	23rd	58·6	6th
	Indore	1,823	28·058	+·015	29·789	28·143	14th	27·973	27th	84·2	65·8	100·3	+0·3	68·3	−1·5	84·3	−0·6	32·0	105·6	24th	59·1	6th & 10th.
21	Nowgong	754	29·068	+·015	29·778	29·184	6th	28·963	24th	80·4	60·6	101·5	−0·7	68·5	−2·7	85·0	−1·7	33·0	109·0	25th	59·3	9th
	Sutna	1,041	28·763	+·023	29·769	28·898	13th	28·681	24th	83·7	65·6	100·1	−0·8	71·8	+0·1	86·0	−0·3	28·3	107·3	25th	62·8	15th
	XII.—Central Provinces.																					
22	Buldana	2,134								84·3	63·1	99·2	−0·6	76·5	+0·1	87·9	−0·3	22·7	104·4	26th	70·4	3rd & 5th.
	Akola	925	28·938	+·019	29·796	29·016	14th	28·859	26th	86·9	64·2	105·9	+0·2	75·6	+0·9	90·8	+0·5	30·3	110.6	29th	65·4	11th
	Amraoti	1,215	28·638	+·011	29·777	28·728	14th	28·555	30th	87·3	63·9	103·9	−0·9	77·4	+1·2	90·7	+0·1	26·5	109·2	24th	68·9	10th
23	Khandwa	1,044	28·815	+·013	29·795	28·904	14th	28·751	30th	85·7	64·4*	104·5	0	73·3	−1·8	88·9	−0·9	31·2	109·2	23rd	65·5	11th
	Hoshangabad	1,006	28·849	+·020	29·795	28·948	13th	28·763	27th	83·7	64·7	103·2	−1·0	71·6	−1·9	87·5	−1·5	31·6	109·5	25th	64·0	12th
	Saugor	1,807	28·014	−·024?	29·732?	28·118	13th	27·920	26th	83·3	57·8	100·2	−0·3	73·5	+0·4	86·8	+0·1	26·7	107·0	24th	66·0	10th
	Jubbulpore	1,327	28·494	−·001	29·754	28·596	14th	28·398	26th	82·7	63·9	100·5	−0·8	71·0	+0·8	85·8	0	29·5	106·9	26th	62·7	10th
	Seoni	2,033	27·850	+·027	29·785	27·947	14th	27·753	26th	82·8	62·3	97·9	−2·6	70·7	−0·2	84·3	−1·4	27·2	104·0	25th	58·3	10th
	Nagpur	1,017	28·846	+·032	29·798	28·912	14th	28·754	26th	85·9	67.5	102·8	−2·4	74·5	−1·5	88·6	−1·9	28·3	109·4	24th	65·9	1st
24	Pendra	2,040	27·835	+·030	29·789	27·928	14th	27·725	25th	81·8	62·6	96·1	−0·1	70·2	−1·1	83·2	−0·6	25·9	103·7	4 days	56·9	10th
	Raipur	970	28·867	+·009	29·775	28·967	14th	28·768	26th	83·5	71·4	100·8	−2·6	75·5	−1·0	88·1	−1·8	25·3	108·9	27th	66·2	10th
	Chanda	*634*	29·218	+·009	29·789	29·314	14th	29·116	30th	87·5	74·5	102·6	−2·6	77·4	+1·2	90·5	−0·7	26·2	110·5	27th	69·4	11th
	Jagdalpur	1,813	28·107		29·831	28·178	15th	27·994	30th	81·6	73·0	98·2		72·1		85·1		26·1	102·2	30th	66·1	11th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·994	+·007	29·792	28·054	14th	27·921	30th	84·8	60·5	100·8	−1·5	73·9	+0·9	87·4	−0·3	26·9	106·1	26th	63·0	11th
	Nizamabad	1,248	28·617		29·781	28·692	14th	28·525	30th	88·1	70·4	105·6	+2·3	77·0	+0·5	91·3	+1·4	28·6	111·7	27th	66·8	20th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·371	+·005	29·788	28·457	15th	28·291	30th	84·6	71·0	104·0	+0·6	77·2	+0·9	90·6	+0·7	26·8	107·0	26th & 27th.	68·2	11th
	Raichur	*1,311*	28·568	+·025	29·794	28·640	15th	28·485	30th	86·5	72·6	102·6	+0·2	80·0	+1·0	91·3	+0·6	22·6	106·1	27th	74·8	27th
	Hyderabad (Deccan)	1,719	28·182	+·029	29·810	28·278	19th	28·071	30th	82.3	72·4	99·2	−2·1	76·2	0	87·7	−1·1	23·0	104.0	27th	66·5	19th
	Hanamkonda	877	29·001	+·023	29·817	29·111	19th	28·871	30th	82·7	73·7	101·4	−0·4	77.7	+0·6	89·6	+0·1	23·7	109·2	18th	73·5	20th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·514	+·001	29·789	27·574	15th	27·448	30th	79·4	68·7	97·0	+0·2	73·7	+1·2	85·3	+0·7	23·3	100·9	1st	68·8	10th
	Hassan	3,142	26·826	+·016	29·817	26·880	4th	26·780	27th	74·7	69·3	91·8	−0·2	68·0	+1·5	79·9	+0·7	23·8	97·4	1st	65·1	10th
	Bangalore	3,021	26·854	+·006	29·815	27·009	4th	26·785	30th	76·0	69·3	93·3	0	69·2	−0·1	81·3	−0·1	24·1	96·8	1st	65·0	12th
	Mysore	2,518	27·420	−·006	29·814	27·476	4th	27·382	26th	77·0	70·6	93·2	−1·8	70·5	+0·4	81·9	−0·5	22.7	97·2	7th	62·8	12th

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

* Mean of 26 days.

B—*continued.*

in India, etc., in April, 1920—*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 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. 1919 to 30th Apl. 1920.	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.*
4	1	0	0	1	0	14	2	8	S 77° W	N 69° W	6·6	6·9	−0·3	56	− 7	33	− 9	·405	−·092	1·9	+0·2	0	−0·4	0·01	0·12	−0·11	1·36	0·61	+ 0·75	0·01	Malegaon.
12	4	1	0	0	1	0	1	11	N 35° W	N 1° E	4·6	7·7	−3·1	46	− 2	27	−20?	·298	−·229?	1·7	+0·4	2	+0·9	0·78	0·32	+0·46	3·20	1·25	+ 1·95	0·36	Ahmadnagar.
9	0	1	0	1	1	2	9	7	N 80° W	N 83° W	6·6	7·7	−1·1	46	−11	39	− 2	·396	−·016	4·6	+3·1	3	+1·6	1·09	0·62	+0·47	1·34	0·93	+ 0·41	0·58	Poona.
3	2	3	0	3	2	0	1	16	N 36° W	N 45° W	6·6	6·4	+0·2	46	+23	25	−12	·308	−·129	3·4	+1·3	0	−1·0	0	0·47	−0·47	0·54	1·38	− 0·84	0	Sholapur.
3	12	2	2	1	3	1	2	4	N 7° W	N 82° W	3·0	4·1	−1·1	40	−18	43	−11	·497	−·101	2·4	+0·7	1	−1·1	0·33	0·78	−0·45	0·92	1·48	− 0·56	0·33	Bijapur.
26	2	0	0	0	0	0	1	1	N 33° W	S 83° W	3·4	9·6	−6·2	13	−15	56	− 2	·491	−·036	5·3	+3·1	6	+2·6	3·22	1·62	+1·60	3·69	2·48	+ 1·21	0·95	Belgaum.
																															XI.—Central India.
17	0	0	6	0	0	0	7	0	W	N 51° W	3·9	6·4	−2·5	3	−19	34	− 3	·394	−·024	1·3	−0·1	0	−0·3	0	0·12	−0·12	0·45	0·80	− 0·35	0	Neemuch.
7	3	7	1	1	1	0	3	7	N 6° W	N 45° W	3·9	3·2	+0·7	37	−13	35	− 4	·409	−·045	0·9	−0·8	0	−0·4	0·09	0·15	−0·06	4·35	0·74	+ 3·61	0·09	Indore.
10	3	0	0	0	1	5	6	5	N 81° W	S 75° W	1·7	2·3	−0·6	43	+ 6	26	−11	·263	−·142	2·1	0	0	−0·3	0·03	0·19	−0·16	0·37	2·11	− 1·74	0·03	Nowgong.
11	1	1	0	1	4	8	3	1	S 45° W	N 55° W	2·0	4·9	−2·9	37	− 3	36	+ 8	·408	+·081	1·1	−1·1	0	−0·4	0	0·21	−0·21	0·29	2·74	− 2·45	0	Sutna.
																															XII.—Central Provinces.
1	0	0	1	0	0	2	13	13	N 71 W		5·2	6·6	−1·4	30		27		·316		2·5		0	−0·6	0·04	0·23	−0·19	4·19	1·62	+ 2·57	0·03	Buldana.
2	2	1	2	2	3	1	9	8	N 74° W	N 67° W	4·2	4·3	−0·1	37	−16	24	− 6	·299	−·077	2·8	+0·9	0	−0·6	0·03	0·17	−0·14	1·55	1·82	− 0·27	0·03	Akola.
0	1	0	6	5	2	5	8	3	S 35° W	S 69° W	5·1	3·9	+1·2	23	− 7	24	−11	·295	−·133	2·0	+0·1	0	−0·7	0·02	0·25	−0·23	1·69	1·83	− 0·14	0·01	Amraoti.
1	3	4	2	0	0	4	11	5	N 63° W	N 68° W	4·5	4·7	−0·2	46	−17	26*	− 3	·320*	−·032	2·1	+0·6	0	−0·3	0	0·11	−0·11	3·91	0·91	+ 3·00	0	Khandwa.
24	0	5	0	0	0	1	0	0	N 45° E	S 48° W	0·9	2·2	−1·3	13	− 4	32	− 5	·368	−·066	2·2	+0·6	0	−0·3	0	0·14	−0·14	1·68	1·48	+ 0·20	0	Hoshangabad.
1	3	5	3	5	1	3	7	2	N 23° W	S 53° W	4·7	3·4	+1·3	4	−13	14	−16	·164	−·177	1·4	−0·1	0	−0·4	0	0·16	−0·16	0·48	2·00	− 1·52	0	Saugor.
5	2	2	1	8	7	1	3	1	S 21° E	S 18° W	2·1	2·4	−0·3	33	0	32	− 3	·359	−·023	0·9	−0·7	1	+0·3	0·24	0·27	−0·03	0·75	2·64	− 1·89	0·24	Jubbulpore.
7	4	3	1	1	6	2	4	2	S 79° W	S 86° W	3·6	2·8	+0·8	10	+ 1	30	− 6	·314	−·090	1·5	−0·6	1	−0·4	0·24	0·50	−0·26	4·34	3·11	+ 1·23	0·19	Seoni.
3	2	2	5	3	3	2	7	3	S 63° W	N 83° W	4·0	4·4	−0·4	7	− 1	36	+ 1	·430	−·003	1·9	−0·4	1	−0·4	0·50	0·61	−0·11	1·72	2·59	− 0·87	0·40	Nagpur.
15	2	0	0	4	4	2	0	3	S 10° W		4·3			13		32	+ 2	·330	+·021	3·0	+1·0	2	−0·4	1·05	1·06	−0·01	1·91	5·33	− 3·42	0·70	Pendra.
21	1	0	0	0	2	4	2	0	S 51° W	S 56° W	3·8	4·6	−0·8	23	−14	54	+17	·610	+·163	4·8	+2·7?	3	+1·5	0·64	0·68	−0·04	1·95	2·58	− 0·63	0·35	Raipur.
1	1	1	6	8	4	6	2	1	S 26° E	S 52° E	3·4	2·6	+0·8	40	+21	54	+13	·685	+·171	3·3	+1·2	3	+1·3	1·35	0·69	+0·66	1·46	2·87	− 1·41	1·03	Chanda.
4	1	0	0	1	15	7	2	0	S 18° W		3·2			69		67		·718		0·3		5	+1·0	2·56	1·92	+0·64	3·79	3·75	+ 0·04	1·12	Jagdalpur.
																															XIII.—Hyderabad.
6	6	2	1	2	1	2	6	4	N 45° W		6·7			27		19	−10	·230	−·123	1·8	+0·6	0	−0·6	0·02	0·26	−0·24	2·67	1·25	+ 1·42	0·01	Aurangabad.
2	3	0	2	5	6	6	4	2	S 24° W		3·0			33		40	−11	·517	−·129	3·2	+0·9	1	−0·8	0·23	0·86	−0·63	1·32	2·19	− 0·87	0·12	Nizamabad.
																															Bidar.
0	4	4	3	3	4	7	4	1	S 27° W	N 78° W	6·2	6·6	−0·4	13	+ 6	50	0	·587	− 014	1·7	−0·1	0	−2·3	0·11	0·96	−0·85	0·13	1·85	− 1·72	0·06	Gulbarga.
0	1	1	0	8	3	12	2	3	S 25° W	S 58° W	5·8	6·2	−0·4	46	+ 4	50	− 1	·632	+·015	3·0	+0·7	0	−1·4	0·05	0·81	−0·76	0·62	1·56	− 0·94	0·03	Raichur.
61	0	0	3	5	2	3	0	2	S 26° E	S 72° W	3·4	3·3	+0·1	23	+ 4	62	+10?	·673	+·079?	3·5	+1·3	4	+2·3	1·12	0·96	+0·16	2·79	2·27	+0·52	0·50	Hyderabad (Deccan).
0	0	0	1	16	12	1	0	0	S 26° E		4·8			89		64	+ 2	·706	+·017	3·9	+0·9	1	−0·9	0·15	0·99	−0·84	0·53	2·17	− 1·64	0·13	Hanamkonda.
																															XIV.—Mysore.
3	1	0	0	1	1	7	12	5	S 84° W	S 70° W	3·5	4·9	−1·4	66	+ 3	58	− 3	·570	−·046	4·0	+1·5	0	−2·1	0·09	1·02	−0·93	0·71	1·83	− 1·12	0·08	Chitaldrug.
9	1	0	1	0	0	5	9	5	N 86° W	S 82° W	3·9	2·5	+1·4	50	+21	77	+ 7	·658	+·038	5·6	+1·8	6	+2·0	2·16	2·12	+0·04	2·88	3·33	− 0·45	0·59	Hassan.
6	0	0	1	3	6	5	8	0	S 32° W	S 41° W	4·7*	3·5	+1·2	56	+ 2	71	0	·631	−·014	5·8	+2·9	2	−0·2	0·96	1·56	−0·40	2·86	2·78	+ 0·08	0·42	Bangalore.
7	1	0	2	2	4	7	7	0	S 43° W	S 68° W	3·5	5·8	−2·3	43	− 9	73	− 1	·671	−·012	5·6	+0·9	5	+0·5	3·98	2·43	+1·55	5·06	3·33	+ 1·73	2·25	Mysore.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

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
	XV.—Madras.																					
30	Mangalore	72	29·835	−·011	29·838	29·882	4th	29·748	27th	83·7	76·9	92·3	+0·6	78·3	+0·1	85·3	+0·3	14·0	93·7	17th & 22nd.	73·0	27th
	Calicut	27	29·876	−·003	29·832	29·919	4th	29·775	27th	82·7	78·2	90·5	−0·5	78·4	+0·4	84·5	−0·1	12·1	92·0	7th & 9th	74·0	18th
	Cochin	9	29·901	+·001	29·838	29·937	9th	29·821	27th	83·6	77·5	91·4	−0·2	77·9	−0·5	84·7	−0·3	13·5	93·8	1st & 2nd	74·3	17th
	Trivandrum	198	29·711	+·011	29·839	29·750	4th	29·637	27th	79·9	76·8	87·3	−0·3	77·2	−1·0	82·2	−0·7	10·1	91·2	1st	74·5	17th & 20th.
31	Pamban	37	29·860	+·001	29·824	29·928	5th	29·779	30th	84·0	78·6	90·6	−0·9	80·7	+1·6	85·6	+0·3	9·9	93·5	29th	78·5	3rd
	Madura	447	29·459	+·011	29·636	29·507	4th	29·363	30th	83·2	77·3	97·0	−2·0	78·0	+1·3	87·5	−0·3	19·0	100·8	9th	74·0	20th
	Pudukkottai	318	29·595	+·015	29·843	29·654	4th	29·484	30th	83·9	77·2	97·4	−1·9	78·3	+0·7	87·9	−0·6	19·1	103·2	10th	70·9	19th
	Negapatam	31	29·872	+·008	29·832	29·929	4th	29·754	30th	84·3	78·3	91·2	−1·5	79·7	+0·4	85·4	−0·5	11·5	93·1	25th	75·2	20th
	Trichinopoly	255	29·646	+·003	29·832	29·706	15th	29·551	30th	84·6	77·6	99·7	−1·4	78·0	+0·3	88·8	−0·5	21·7	102·7	7th	73·0	19th
	Coimbatore	1,341	28·571	+·013	29·836	28·629	4th	28·498	27th	79·7	74·0	95·4	−1·8	74·0	+0·5	84·7	−0·7	21·4	99·9	1st & 7th	69·9	19th
	Salem	913	28·995	+·014	28·837	29·052	14th	28·904	30th	81·3	74·8	98·3	−2·5	76·1	−0·1	87·2	−1·3	22·2	102·0	7th	72·1	19th & 26th.
	Cuddalore	37	29·868	+·010	29·835	29·929	15th	29·727	30th	83·8	78·1	91·5	−1·5	78·1	+0·8	84·8	−0·3	13·4	95·8	1st	75·2	11th & 15th.
	Vellore	707	29·192	+·008	29·833	29·249	14th	29·065	30th	81·9	76·1	97·8	−0·8	76·0	−0·5	86·9	−0·7	21·8	102·2	27th	72·2	11th
	Madras	22	29·878	+·006	29·832	29·942	14th	29·736	30th	84·9	78·4	92·9	−0·2	77·7	+0·3	85·3	+0·1	15·2	97·9	25th	74·3	15th
32	Cuddapah	428	29·447	+·008	29·867	29·513	14th	29·342	30th	87·0	75·5	102·9	−1·6	80·0	−0·7	91·9	−1·1	23·9	106·8	30th	75·7	11th
	Bellary	1,475	29·404	+·002	29·783	29·462	14th	29·334	30th	85·9	73·0	103·5	−0·1	78·5	+1·3	91·0	+0·6	25·0	106·1	1st & 28th	73·2	3rd
	Kurnool	923	28·951	+·014	29·800	29·022	14th	28·857	30th	86·0	74·4	103·6	−0·4	80·4	+1·9	92·0	+0·7	23·2	106·4	24th & 26th.	74·9	17th
33	Nellore	86	29·8[illegible]0	+·014	29·821	29·885	14th	29·683	30th	83·7	78·9	96·9	−3·5	77·3	−0·1	87·1	−1·8	19·6	100·4	25th	75·2	15th
	Masulipatam	15	29·890	+·018	29·840	29·961	14th & 15th.	29·782	30th	84·1	78·0	92·8	−2·0	76·1	−1·6	84·4	−1·8	16·7	98·1	30th	67·4	12th
	Cocanada	26	29·883	+·020	29·846	29·950	14th	29·766	30th	83·7	78·6	95·6	−0·4	77·7	−0·8	86·6	−0·6	17·9	100·0	27th & 30th.	73·9	12th
	Vizagapatam	38	29·854	+·020	29·830	29·929	14th	29·726	30th	84·9	77·2	90·8	+2·0	80·3	−1·4	85·6	+0·3	10·5	93·6	21st	75·7	12th
	Calingapatam	19	29·865		29·831	29·942	14th	29·739	30th	84·6	80·6	94·8		78·4		86·6		16·4	99·1	12th	71·3	16th
	Gopalpur	56	29·803	+·021	29·799	29·892	9th	29·687	26th	82·1*	77·6*	88·3*	+0·4	77·8*	+0·7	83·1*	+0·5	10·5	90·9	13th	75·3	13th
	Bay Stations.																					
1	P. V. Fraser	8	29·830		29·810	29·904	14th	29·728	26th	82·7	79·0											
	Port Blair	58	29·830	−·028	29·818	29·889	14th	29·714	30th	83·2	77·8	91·7	−0·6	78·4	−0·4	85·1	−0·5	13·3	94·6	27th	72·3	9th
	Table Island	90	29·827	−·003	29·851	29·899	14th	29·711	30th	82·8	76·7	89·1	−0·5	79·7	+0·3	84·5	−0·1	9·4	92·0	29th	77·3	3rd
	Kashmir.																					
13	Muzaffarabad		27·377			27·685	22nd	27·177	30th	60·0	53·5	76·1		50·8		63·5		25·3	89·8	22nd	42·7	12th
	Srinagar	5,204	24·915	+·017	24·886	25·019	28th	24·707	4th	49·3	47·1	59·4	−7·2	43·8	−1·2	51·6	−4·2	15·6	70·3	30th	35·0	5th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·816	+·012	20·784	20·962	22nd	20·600	4th	26·3	34·6†	35·9	−7·9	18·2	−1·6	27·0	−4·7	17·7	42·0	16th	3·4	2nd
	Leh	*11,503*	19·698	−·008	19·666	19·842	29th	19·526	11th	37·6	34·0†	51·6	−3·9	29·2	−1·0	40·5	−2·5	22·3	58·9	30th	23·9	13th
	Skardu	*7,503*	22·884	+·004	22·854	23·123	21st	22·660	4th	43·5	38·0	54·6	−6·9	38·8	−3·4	46·7	−5·1	15·8	67·0	30t	31·4	21st
	Gilgit	4,890	25·191	+·057	25·164	25·492	21st	24·878	4th	58·8	47·6	66·8	−4·7	47·7	−5·1	57·3	−4·9	19·1	81·7	30th	39·2	5th & 21st.

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 20 days.
† " " 6 "
‡ " " 11 "

B—*continued.*

in India, etc., in April, 1920—*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. 1919 to 30th April 1920.	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	10	1	17	0	0	0	0	2	N 53° E	N 60° E	4·6	2·3	+2·3	66	+36	72	+ 3	·831	+·020	4·9	+0·6	3	+ 0·9	4·45	1·32	+ 3·13	5·80	2·00	+3·80	2·64	Mangalore.
16	2	2	6	2	1	0	0	1	N 78° E	N 13° E	4·9	7·5	−2·6	27	− 6	81	+ 4	·902	+·030	6·5	+2·0	6	+ 1·7	4·72	3·54	+ 1·18	8·21	5·75	+ 2·46	1·30	Calicut.
14	0	6	9	0	0	0	1	0	N 71° E	N 27° E	3·3	4·4	−1·1	43	−17	75	− 2	·861	−·024	4·1	−0·3	9	+ 2·5	6·29	4·96	+ 1·33	10·13	10·15	+ 0·03	1·84	Cochin.
15	3	9	0	0	0	0	0	3	N 20° E	N 4° E	2·3	4·3	−1·5	40	−12	88	+ 7	·876	+·018	7·9	+3·5	14	+ 7·2	7·33	4·58	+ 2·75	20·87	9·86	+11·01	1·22	Trivandrum.
4	1	4	7	8	0	7	0	1	S 61° E	S 38° E	4·1	5·3	−1·2	30	−16	78	0	·904	−·023	3·2	0	7	+ 3·7	2·64	1·76	+ 0·88	25·67	12·46	+13·21	0·55	Pamban.
9	3	3	4	3	0	0	4	4	N 14° E	N 41° E	2·9	2·3	+0·6	20	− 6	76	+ 5	·858	+·018	7·5	+4·0P	5	+ 2·0	2·62	2·14	+ 0·48	9·52	5·27	+ 4·25	1·05	Madura.
14	1	4	0	0	3	3	5	0	S 76° W		3·1			13		73	− 2	·839	−·023	5·6	+0·7	3	+ 0·6	1·69	1·69	0	1·69	6·09	− 4·40	1·45	Pudukkottai.
5	0	1	3	6	2	7	5	1	S 15° W	S 6° E	6·7	5·0	+1·7	33	+ 3	76	+ 2	·886	− 017	4·5	+0·2	2	+ 1·0	1·12	0·61	+ 0·51	26·37	15·11	+11·26	0·90	Negapatam.
4	3	7	2	1	4	1	7	1	N 14° W	S 34° W	2·2	3·9	−1·7	10	− 7	72	+ 3	·848	+·031	5·0	+1·2	2	+ 0·2	2·64	1·78	+ 0·86	14·26	6·05	+ 8·21	2·30	Trichinopoly.
18	2	7	2	0	1	0	0	0	N 49° E	S 1° W	2·3	2·2	+0·1	30	+15	74	− 7	·759	−·059	3·7	−0·4	5	+ 2·2	2·14	1·51	+ 0·63	5·85	4·11	+ 1·74	0·80	Coimbatore.
9	0	8	3	0	0	6	3	1	N 18° E	S 67° E	3·7	3·4	+0·3	7	− 6	73	0	·773	−·066	5·0	+1·4	6	+ 2·5	1·96	1·91	+ 0·05	5·07	4·03	+ 1·04	0·65	Salem.
18	0	0	0	3	2	6	0	1	S 20° W	S 39° W	4·9	2·0	+2·9	27	−25	77	− 1	·882	−·057	5·4	+1·7	0	− 1·0	0·13	0·62	− 0·49	24·19	10·66	+13·53	0·68	Cuddalore.
27	0	0	0	1	1	0	1	0	S 16° W		3·0			34		76	+ 3	·819	+·004	3·0	+0·4	1	− 0·6	0·23	1·23	− 1·00	6·44	6·37	+ 0·07	0·23	Vellore.
15	0	0	0	0	3	12	0	0	S 36° W	S 10° W	3·1	5·5	−2·4	46	−27	74	− 1	·878	−·024	4·7	+0·4	0	− 0·8	0·06	0·60	− 0·54	13·08	8·17	+ 4·91	0·06	Madras.
2	0	1	4	14	5	1	3	0	S 36° E	S 41° E				62	+25	57	+ 1	·733	−·015	4·4	+1·7	0	− 0·9	0	0·50	− 0·50	3·86	2·14	+ 1·72	0	Cuddapah.
10	2	1	0	0	2	2	5	7	N 64° W	N 69° W	3·7	3·9	−0·2	40	+10	53	+ 3	·651	+·058	4·5	+1·6	0	− 1·9	0	0·83	− 0·83	0·25	1·35	− 1·10	0	Bellary.
17	0	0	0	3	2	4	4	0	S 35° W	S 10° E	1·8			30	+23	56	+ 1	·696	+·023	1·0	−1·3P	0	− 1·7	0	0·63	− 0·63	0·83	1·47	− 0·64	0	Kurnool.
2	0	0	0	8	19	1	0	0	S 11° E	S 29° E	4·3	6·0	−1·7	86	+19	80	+ 6	·820	+·038	5·2	+1·0	0	− 0·5	0·04	0·42	− 0·38	14·27	5·28	+ 8·99	0·04	Nellore.
1	0	0	0	2	19	7	0	0	S 6° W	S 1° E	5·3	5·6	−0·3	86	+19	75	− 6	·872	−·116	5·8	+1·1	3	+ 2·2	1·70	0·60	+ 1·10	3·10	2·45	+ 0·65	1·15	Masulipatam.
12	1	0	0	0	1	5	6	5	W	S 66° W	5·1	5·5	−0·4	43	− 4	79	+ 3	·907	+·009	5·7	+1·4	1	0	0·19	0·61	− 0·42	0·53	2·59	− 2·06	0·10	Cocanada.
0	1	0	1	0	0	3	22	3	N 88° W	S 75° W	9·3			82	+ 9	69	− 2	·831	+·018	5·5	+1·2	0	− 1·9	0·05	0·85	− 0·80	1·81	3·49	− 1·68	0·05	Vizagapatam.
0	1	0	0	0	4	13	9	3	S 63° W		7·8			73		83		·994		2·5		1	− 1·7	0·12	1·67	− 1·55	0·87	4·06	− 3·19	0·12	Calingapatam.
2	2	0	0	1	11	14	0	0	S 25° W	S 35° W	10·1	13·1	−3·0	69	+ 2	81*	− 1	·887*	+·014	2·5	+1·3	0	− 1·6	0·03	0·85	− 0·82	1·14	2·96	− 1·82	0·03	Gopalpur.
																															Bay Stations.
0	1	0	0	0	2	25	2	0	S 46° W					93		84		·938		3·7		0	− 1·6	0	0·76	− 0·76	4·81	3·90	+ 0·91	0	P. V. Fraser.
6	4	6	1	1	1	0	0	11	N 7° W	N 82° W	4·2	3·5	+0·7	46	+16	78	− 5	·881	−·054	4·9	+0·5	2	− 2·1	0·51	2·73	− 2·22	15·90	12·88	+ 3·02	0·35	Port Blair.
3	10	0	1	1	0	0	5	10	N 32° W		5·7			62		75	0	·840	−·020	2·9	−2·1	0	− 1·3	0	0·72	− 0·72	0·76	4·19	− 3·43	0	Table Island.
																															Kashmir
32	0	1	2	2	0	13	0	0	S 27° W		2·1			37		65		·333		5·7		7	− 2·0	7·83	4·91	+ 2·92	29·88	20·30	+ 9·58	5·02	Muzaffarabad.
4	4	1	0	7	3	2	2	7	N 83° W	S 23° E	3·3	3·5	−0·2	9	− 2	85	0	·300	−·022	7·2	+2·1	12	+ 4·3	4·21	3·80	+ 0·41	19·45	14·48	+ 4·97	0·57	Srinagar.
																															Gulmarg.
25	1	1	1	0	0	0	0	2	N 6° E		0·8			10		99†	+11	·199†	+.052	7·6	+2·5	17	+ 8·4	11·05	3·86	+ 7·19	29·77	14·75	+15·02	2·20	Dras.
23	0	1	0	0	6	0	0	0	S 8° E	S 66° W	2·6	2·3	+0·3	17	−11	50‡	+ 1	·129‡	+.018	6·3	+0·6	1	+ 0·1	0·13	0·25	− 0.12	1·62	1·42	+ 0·20	0·10	Leh.
6	0	1	4	0	5	6	7	1	S 42° W		4·9			33		62	+ 2	·174	−·043	6·8	+1·2	8	+5·1	2·39	1·25	+ 1·14	6·11	4·23	+ 1·88	0·54	Skardu.
9	0	0	0	0	0	0	0	1	N 45° W		0·6			3		61	+10	·255	+·011	7·2	+1·1	5	+ 2·1	1·01	1·06	− 0·05	2·45	2·06	+ 0·39	0·20	Gilgit.

* Mean of 29 days.
† " " 6 "
‡ " " 11 "

Table

(2) Abstract of observations taken at 8 hrs. at 211 stations

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
	Baluchistan.																					
15	Fort Sandeman	4,614	25·381		25·350	25·468	6th	25·203	3rd	59·6	49·0	78·2		52·4		65·3		25·8	89·3	22nd	37·8	4th
	Quetta	5,502	24·648	+·011	24·608	24·731	28th	24·432	3rd	52·5	45·0*	71·8	−2·1	43·5	−2·3	57·7	−2·2	28·3	81·3	22nd	29·7	5th
	Chaman	4,311	25·680	−·007	25·642	25·790	5th	25·491	2nd	60·7	51·6	75·3	−1·5	50·0	−4·2	62·9	−2·9	25·8	87·7	22nd	31·2	4th
	Kalat	6,630	23·728		23·190	23·799	18th	23·531	3rd	46·6	42·2†	68·9	−5·3	39·2		54·0		29·7	81·0	22nd	27·4	6th
	Dalbandin	2,772	27·132		27·095	27·280	5th	26·923	2nd	62·5	51·3	86·9		54·9		70·9		32·0	100·0	22nd	41·2	5th
	Pasni		29·875		29·835	30·027	5th	29·780	23rd	73·3	68·4	92·7		59·1		75·9		33·6	100·8	19th	50·3	5th
	Panjgur	3,177	26·733		26·691	26·850	5th	26·587	2nd	63·1	52·3	86·4		57·0		71·7		29·4	95·6	22nd	41·8	5th
	Seistan (c)		28·193			28·390	4th & 5th.	27·900	2nd	58·8	50·4	79·5		52·8		66·1		26·7	93·0	23rd	30·1	4th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·432	+·014	24·408	24·530	19th	24·265	4th	53·9	45·0	65·2	−2·4	42·6	−4·1	53·9	−3·3	22·6	73·6	22nd	34·1	4th & 10th.
	Cherat	*4,256*	25·695	+·020	25·663	25·801	28th	25·546	4th	57·6	47·8	68·1	−4·6	52·3	−3·6	60·2	−4·1	15·8	80·2	30th	41·6	4th
	Drosh (c)	4,500	25·099			25·225	28th	24·900	4th	48·4	43·6	61·0	−8·7	44·5	−4·3	52·7	−6·5	16·5	73·1	30th	34·0	21st
	Murree	5,181	23·953	−·003	23·921	24·053	14th	23·783	4th	53·7	45·4	61·1	−5·9	47·8	−3·1	54·5	−4·5	13·3	73·7	30th	36·6	11th
	Simla	7,232	23·116	+·020	23·078	23·184	14th	22·995	11th	56·1	43·6	64·5	−0·7	50·7	−0·7	57·6	−0·7	13·8	72·7	30th	41·2	3rd
	Chakrata	6,922	23·365		23·325	23·433	15th	23·276	11th	60·5	47·4	72·0	+2·7	51·3	−0·3	61·7	+1·2	20·7	80·7	23rd	40·9	11th
	Mukteswar	7,592	22·874	+·024	22·833	22·923	15th & 16th.	22·804	30th	57·9	44·3	69·5	+0·2	48·7	−1·7	59·1	−0·7	20·8	79·5	30th	40·8	12th
	Darjiling	7,432	22·950	−·002	22·905	23·006	15th	22·884	27th	54·1	49·4	64·1	+1·6	48·2	−0·3	56·1	+0·7	15·9	70·4	30th	42·2	1st
	Shillong	4,920	25·129	+·024	25·081	25·205	14th	25·040	27th	65·2	56·3	73·4	−0·4	55·9	−0·7	64·7	−0·5	17·5	77·9	20th	45·9	1st
	Cherrapunji	4,309	25·702	+·027	25·653	25·771	14th	25·625	27th	64·0	59·5	70·4	−0·1	57·1	−1·4	63·7	−0·7	13·3	75·8	22nd	50·7	1st
	Netarhat		26·034‡		25·983‡	26·045	1st & 2nd.	26·018	7th	78·6	62·1	90·2		63·2		76·7		27·0	98·8	26th	56·3	9th
	Maymyo	3,546	26·428	+·003	26·373	26·480	14th	26·367	26th & 27th	70·1	62·6	85·2	+0·9	58·9	−0·5	72·1	+0·2	26·3	89·8	24th	49·1	2nd
	Pachmarhi	3,528	26·453	+·006	26·401	26·533	14th	26·389	30th	78·7	60·8	92·6	+0·5	69·1	−0·3	80·9	+0·1	23·5	100·0	24th	60·1	12th
	Mount Abu	3,945	26·060	+·014	26·010	26·136	13th	25·997	27th	75·3	54·8	83·4	−1·4	67·8	−0·9	75·6	−1·1	15·6	89·0	19th	55·6	4th
	Mercara	3,781	26·222	−·012	26·155	26·267	4th	26·161	27th	69·8	66·0	82·9	−1·1	62·8	−1·1	72·9	−1·1	20·5	87·8	1st	59·6	27th
	Ootacamund	*7,327*	23·082	+·012	23·018	23·122	4th	23·034	27th	62·1	53·7	71·1	0	51·0	−0·9	61·0	−0·5	20·1	75·8	2nd	45·7	8th
	Kodaikanal	7,688	22·843	−·009	22·778	22·874	4th	22·804	27th	60·3	52·3	69·9	+0·6	52·0	−1·7	60·9	−0·5	17·9	75·3	1st	48·7	3rd
	Extra India.																					
	Singapore (a)	10	29·835	−·085	29·766	29·891	5th, 9th & 13th.	29·761	26th	84·5		88·9	+0·3	75·1	+0·5	82·0	+0·4	13·8	93·0	8th	74·0	6 days.
	Penang (a)	17	29·829	−·086	29·771	29·870	2nd, 6th & 12th.	29·740	5th	83·4		91·1	+0·1	73·2	−1·2	82·1	−0·5	17·9	93·0	3rd, 5th & 15th.	71·0	5th
	Trincomalee	99	29·810	+·020	29·838	29·857	4th & 6th.	29·695	30th	78·2	75·6	92·2	+0·7	76·5	−1·2	84·4	−0·3	15·7	96·9	10th	74·0	10th
	Colombo	24	29·883	−·007	29·833	29·924	6th	29·818	27th	76·1	74·7	87·7	−1·6	74·7	−1·5	81·2	−1·5	13·0	91·5	18th	71·4	30th
	Hambantota	64	29·839		29·829	29·882	6th & 10th.	29·768	27th	76·0	73·7	86·7		74·7		80·7		12·0	89·2	8th	72·4	30th
	Minicoy	7	29·922			29·973	17th	29·843	26th													
	Amini Divi	*13*	29·898	−·001	29·839	29·953	4th	29·815	27th	85·5	77·8	93·0	+2·1	78·8	−1·1	85·9	+0·5	14·2	95·4	6th	74·3	22nd
	Gyantse	13,116																				
	Phari jong	14,400																				
	Gangtok	5,760	24·267	−·183	24·222	24·242	15th	24·135	27th	57·8	52·9	70·0	−0·4	53·5	+6·4	61·7	+3·0	16·5	75·6	30th	42·8	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 2,200 feet.

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

* Mean of 29 days.
† " " 26 "
‡ " " 22 "

B—*continued.*

in India, etc., in April, 1920—*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. 1919 to 30th April 1920.	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.
10	1	1	0	0	7	6	4	1	S 43° W		5·2			40		48		·229		2·6		6	+3·1	1·33	1·16	+0·17	3·42	5·22	−1·80	0·38	Fort Sandeman.
22	1	1	1	1	2	1	0	1	S 45° E	S 45° W	2·9	2·6	+0·3	3	−4	52*	+1	·211*	−·055	3·2	+0·8	4	+1·0	0·80	1·06	−0·26	5·34	7·84	−2·50	0·24	Quetta.
10	0	0	2	11	5	2	0	0	S 31° E	S 2° W	4·7	5·9	−1·2	53	+10	54	+4	·284	−·021	3·1	+0·3	4	+2·2	0·94	0·69	+0·25	6·69	6·40	+0·29	0·27	Chaman.
25	1	0	0	1	0	1	0	2	N 52° W	S 35° W	5·6			3	−47	60	+11	·211	−·020	3·1		0	−1·6	0	0·56	−0·56	4·42	5·03	−0·61	0	Kalat.
22	1	3	1	1	0	1	1	0	N 51° E		5·2			10		43		·248		3·1		0	−0·8	0	0·43	−0·43	3·18	3·22	−0·04	0	Dalbandin.
10	1	1	0	0	0	0	5	13	N 51° W		5·2			56		77		·638		0·9		0	−0·6	0	0·52	−0·52	5·32	5·53	−0·21	0	Pasni.
7	4	12	5	0	0	1	0	1	N 44° E		5·8			56		46		·272		0·8		0		0			2·81			0	Panjgur.
7	2	0	1	0	0	0	0	20	N 39° W		9·3			66		54		·269		2·3		0		0			1·84			0	Seistan.
																															Hill stations excluding Kashmir and Baluchistan.
30	0	0	0	0	0	0	0	0	Calm		0·7					50	−5	·207	−·041	3·1	−0·4	11	+1·8	5·50	4·45	+1·05	13·45	14·50	−1·05	1·50	Parachinar.
11	18	0	0	0	0	0	0	1	N 2° W	N 11° W	6·2	9·6	−3·4	62	+10	48	−2	·225	−·042	1·8	−1·3	3	−2·3	1·06	2·80	−1·74	19·57	14·35	+5·22	0·68	Cherat.
21	0	2	5	2	0	0	0	0	E		2·7			26		69	+5	·231	−·037	5·0	+1·5	11	+2·5	6·13	4·33	+1·80	12·16	10·34	+1·82	1·90	Drosh.
11	1	0	6	6	2	2	0	2	S 55° E	N 68° E	5·3	6·8	−1·5	27	+7	54	+6	·220	−·001	5·0	+1·1	5	−1·9	2·06	4·06	−2·00	17·82	18·40	−0·58	0·45	Murree.
																35	−5	·155	−·033	3·7	+0·4	1	−2·6	0·47	1·75	−1·28	9·46	11·73	−2·27	0·38	Simla.
0	2	15	12	1	0	0	0	0	N 63° E	N 17° E	8·6	5·5	+3·1	82	+44	37	−9	·192	−·018	2·1	−0·6	1	−3·0	0·39	1·69	−1·30	10·20	15·09	−4·89	0·27	Chakrata.
10	1	1	6	0	0	0	11	1	N 64° W		4·5			17		32	−8	·151	−·032	2·5	−0·3	1	−2·6	0·25	1·45	−1·20	5·30	9·37	−4·07	0·15	Mukteswar.
19	0	0	2	1	0	5	1	2	S 49° W	S 28° E	4·1	6·3	−2·2	13	+5	71	−7	·302	−·034	5·2	+0·4	6	−1·3	2·36	3·80	−1·44	5·19	7·63	−2·44	1·00	Darjiling.
10	0	0	0	0	9	10	1	0	S 27° W		4·7			59		57	−4	·357	−·011	3·4	0	9	−1·2	7·87	5·13	+2·74	12·53	9·26	+3·17	2·68	Shillong.
11	0	1	0	2	4	10	1	1	S 31° W		6·3			43		77	−8	·459	−·036	6·6	−0·2	16	−2·2	19·57	31·68	−12·11	40·07	44·86	−4·79	4·40	Cherrapunji.
0	2	2	2	2	3	11	6	2	S 55° W		3·6			40		38		·374		0·3		0		0			2·17			0	Netarhat.
13	0	0	0	0	0	8	4	0	S 59° W		1·2			40		66	−3	·479	−·066	2·5	+0·2	1	−2·3	0·64	2·34	−1·70	2·01	3·83	−1·82	0·51	Maymyo.
2	1	2	2	4	1	5	7	6	S 86° W	N 88° W	3·9	4·4	−0·5	30	+3	34	+4	·331	+·033	1·4	−0·4	1	+0·3	0·40	0·31	+0·09	3·13	2·53	+0·60	0·40	Pachmarhi.
4	4	5	1	2	0	6	4	6	N 59° W	N 63° W	4·3	6·4	−2·1	30	−13	23	−7	·199	−·062	1·0	−0·3	0	−0·4	0	0·13	−0·13	0·23	1·05	−0·82	0	Mount Abu.
18	2	3	1	0	0	0	3	3	N 18° W	N 21° W	2·0	2·9	−0·9	20	−20	81	+2	·596	+·007	5·7	+1·2	7	+1·9	4·86	2·64	+2·22	5·35	4·41	+0·94	2·31	Mercara.
5	0	2	5	12	4	0	1	1	S 52° E		3·0			56		59	+5	·330	+·023	6·6	+3·3	10	+3·7	4·59	2·60	+1·99	12·45	7·98	+4·47	1·27	Ootacamund.
0	10	9	7	3	1	0	0	0	N 49° E		7·8			62		61	+2	·313	+·001	5·3	+2·2	10	+2·6	6·35	4·51	+1·84	19·99	15·67	+4·32	1·40	Kodaikanal.
																															Extra India.
13	0	9	0	0	0	5	1	2	N 6° E					14						6·8	+2·0	8	−3·4	3·07	8·63	−5·56	39·53	46·92	−7·39	0·80	Singapore.
0	5	20	0	5	0	0	0	0	N 49° E					76						5·2	+4·2	13	+2·7	6·89	7·03	−0·14	16·61†	24·91	−8·30	1·34	Penang.
4	1	0	0	1	1	16	6	1	S 57° W	S 39° W	4·0	5·0	−1·0	66	−2	88	+4	·851	−·071	7·5	+4·9P	6	+3·0	4·57	1·92	+2·65	25·43	25·19	+4·24	2·93	Trincomalee.
	0	1	3	0	1	0	0	0	S 85° E	S 12° E	2·4	4·6	−2·2	12	−40	93	+10	·838	−·068	6·8	+1·9	19	+8·4	14·72	9·71	+5·01	35·24	25·20	+10·14	5·55	Colombo.
3	12	3	0	0	0	1	2	9	N 19° W		4·1			69		89		·729		6·8		11		4·38	3·26	+1·12	20·08	15·70	+4·38	0·90	Hambantota.
3	7	7	3	1	0	1	1	7	N 8° E	N 59° W	2·5	5·4	−2·9	50	−5					4·9	+0·8	5	+1·1	1·95	2·93	−0·98	11·47	9·62	+1·65	0·86	Minicoy.
1	9	4	0	2	2	1	2	9	N 20° W		4·8			50		70	−3	·349	−·047	4·8	+0·1	6	+4·3	3·08	1·68	+1·40	9·69	3·26	+6·23	0·90	Amini Divi.
																															Gyantse.
																															Phari Jong.
0	0	0	1	0	0	0	0		S 45° E		1·3			4		74	−1	·354	−·031	4·0	+1·3	18	+2·8	8·91	11·84	−2·93		21·57		1·18	Gangtok.*

* Mean of 29 days.
† Rainfall for February wanting.

Table

(2) Abstract of observations taken at 8 hrs. at 211

Number of sub-division.	Station.	Height of barometer 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.*																					
	Gartok (e)	15,100																				
	Kashgar (e)	4,255	25·493	—·057		25·710	2nd	25·330	1st	54·1	47·5	68·0	—2·5	49·5	—0·4	57·8	—1·5	20·5	81·3	23rd & 25th	38·8	6th
	Kabul (e)	...																				
	Meshed	3,104								45·2	41·7	63·0	—5·2	39·7	—7·2	51·4	—6·2	23·3	80·9	22nd	31·9	26th
	Jask	13	29·876	+·006	29·842	30·039	5th	29·763	23rd	76·0	69·9	88·0	+1·5	69·2	—4·0	78·6	—1·3	18·8	93·5	11th	60·0	4th
	Muscat	20	29·904	+·034	29·872	30·064	5th	29·795	21st	81·6	72·3	90·5	+4·0	78·4	—1·3	84·4	—1·3	12·1	99·1	23rd	71·7	7th
	Bushire	14	29·899	+·003	29·874	30·049	6th	29·708	12th	74·3	67·4	81·6	+0·4	67·8	+0·7	74·7	+0·5	13·8	101·2	18th	55·1	4th
	Ispahan (e)	*5,817*	24·278	—·092		24·460	9th	24·110	2nd	51·8	45·9	69·8	—2·2	45·9	+0·1	57·9	—1·1	23·9	81·4	18th	35·2	4th
	Tehran (e)	*4,009*	25·740	—·170		25·900	9th	25·600	21st, 22nd, & 28th.	56·8	48·8	68·2	—3·2	48·2	+0·2	58·2	—1·5	19·9	79·5	11th	32·0	3rd
	Baghdad	125	29·774	—·033	29·879	29·961	1st	29·552	12th	64·1	55·3	84·7	+1·9	59·8	+1·7	72·4	+1·8	24·9	95·5	11th	48·6	20th
	Aden *	94	29·842	—·002	29·868	29·920	7th & 9th.	29·757	22nd	80·1	74·5	87·8	—0·9	78·1	+0·4	82·9	—0·3	9·7	94·6	28th	72·3	11th
	Zanzibar	72	29·970	+·034	29·968	30·055	28th	29·896	3rd	80·0	76·2	85·1	+0·7	77·2	—0·1	81·1	+0·3	7·9	87·8	13th	73·8	19th

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.
(e) Annexed.

* Mean of 10 days.

B—*concluded.*

stations in India, etc., in April, 1920—*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 1919, to 30th April 1922.	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 In —*concld.*
																															Gartok.
19	2	4	0	0	1	0	1	3	N 3° W	N 21° W	2·3	3·4	−1·1	20	+ 8	61	+14	·261	+·048	6·9	+2·5	0	−1·0	0	0·26	−0·26	1·03	1·07	−0·04	0	Kashgar.
										N 89° W															3·67			10·64			Kabul.
29	0	0	0	1	0	0	0	0	S 45° E		1·9			3		73	+ 5	·224	−·088	5·4	+0·9	7	+2·0	2·82	1·90	+0·92	10·71	6·47	+4·24	0·72	Meshed.
3	5	2	10	0	0	0	4	6	N 17° E	N 45° W	7·1	7·2	−0·1	37	+22	73	+ 5	·656	−·017	0·8	−0·7	0	−0·3	0	0·08	−0·08	6·97	3·74	+3·23	0	Jask.
14	1	0	0	3	0	0	0	12	N 41° W	N 51° W	2·6	3·1	−0·5	30	0	62	+ 3	·676	+·020	1·5	+0·4	0	−0·7	0	0·30	−0·30	0·82	3·52	−2·70	0	Muscat.
2	6	8	1	1	2	0	2	8	N 1° W	N 1° E	7·2	6·6	+0·6	46	+ 9	68	+ 2	·587	+·042	2·5	−0·7	0	−1·1	0	0·48	−0·48	10·91	9·14	+1·77	0	Bushire.
26	0	0	0	0	0	2	1	1	S 76° W	N 83° W	1·9	4·7	−2·8	10	−27	64	+ 3	·254	−·025	1·6	−1·1	2	−0·5	0·43	0·59	−0·16	4·63	2·53	+1·10	0·18	Ispahan.
19	1	1	1	2	3	1	0	2	S 22° E	S 63° W	3·7	3·2	+0·5	6	− 9	53	− 4	·582	+·313	4·4	+1·3	3	−0·5	2·14	1·37	+0·77	9·80	7·18	+2·62	1·04	Tehran.
10	3	1	6	0	0	3	2	5	N 10° W	N 2° W	4·6	3·1	+1·5	17	−16	55	− 5	·330	−·062	4·2	+2·1	0	−2·0	0·07	0·81	−0·74	5·38	5·80	−0·42	0·07	Baghdad.
6	3	17	2	0	0	0	0	1	N 40° E	N 80° E	11·3	11·2	+0·1	66	− 8	74	0	·773	−·030	5·1	+1·5	0	−0·3	0	0·21	−0·21	0·10	1·43	−1·33	0	Aden.
5	0	0	0	0	11	13	1	0	S 27° W	S 15° W	5·0	5·2	−0·2	72	−11	83	− 4	·851	−·017	7·6	+0·7	11	−3·8	8·47	13·73	−5·26	14·43	31·01	−16·58	1·64	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in April, 1920.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of subdivision.	Station.	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.	Wind direction. 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
	II.—Assam.																								
4	Bishnath	66·6	64·1	81·3	−1·8	47·8	−14·9	64·5	−8·3	33·5	88·1	27th	39·1	1st	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	72·3	68·5	95·7	+9·7	64·6	+0·1	90·1	+4·9	31·1	96·2	27th	62·6	1st	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	70·1	68·3	90·0	+1·0	58·9	−7·4	74·5	−3·2	31·1	110·4	27th	50·9	1st 2nd & 3rd.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	66·5	64·2	80·5	+1·6	62·3	+0·2	71·4	+0·9	18·2	90·5	30th	53·2	14th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	68·1	65·5	81·0	+0·8	62·8	−1·2	71·9	−0·2	18·2	90·0	26th	51·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	68·3	67·5	81·3	−0·8	61·7	...	71·5	...	19·6	91·9	30th.	53·2	1st	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	74·4	70·5	87·7	+0·4	68·0	+0·3	77·9	+0·3	19·7	91·6	22nd	62·2	1st	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	69·0	66·3	80·9	−0·9	63·8	−1·9	72·3	−1·4	17·1	89·3	30th	54·3	1st	...	...	...	...	...	...	...	...	...	...	...
	Lumding	72·2	67·9	86·7	...	62·5	...	74·6	...	24·2	93·9	29th	41·9	17th	...	...	...	...	...	...	...	...	...	...	...
	Messa	77·9	71·2	87·7	−2·1	63·5	−0·7	75·6	−1·4	24·2	91·1	10th	54·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	66·7	66·1	83·2	−0·3	60·1	−3·5	71·7	−1·9	23·1	88·7	30th	49·7	2nd	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	77·4	73·2	91·1	−0·3	62·6	−7·8	76·9	−2·1	28·5	92·6	4 days	58·9	3rd	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	83·1	76·3	92·5	−2·5	72·1	+0·4	82·3	−1·1	20·4	100·9	17th	64·2	12th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	80·3	76·4	96·4	−0·8	72·3	+1·7	84·3	+0·5	24·1	193·6	30th	63·6	12th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	68·3	67·7	86·6	−2·7	64·2	0	75·4	−1·3	22·4	90·9	30th	52·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	77·1	70·5	85·9	−1·3	63·4	−2·1	74·7	−1·7	22·5	92·1	30th	56·0	1st	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	76·5	68·5	83·8	−3·9	61·5	−4·8	72·7	−4·3	22·3	90·1	30th	51·0	3rd	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.

and fifth class stations in India, etc., in April, 1920.

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 1919 to 30th April 1920.	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	−4	·567	−·085	..	...	11	−2·4	9·56	7·46	+2·10	24·06	12·75	+11·31	2·55	Bishnath.
...	...	...	...	...	81	−5	·644	−·028	...	...	13	+1·6	3·91	6·32	−2·41	12·69	10·59	+2·10	0·70	Borjuli.
...	...	...	...	...	88	+ 2	·650	−·092	...	...	14	+1·7	9·42	10·98	−1·56	22·38	18·55	+3·83	2·64	Chandkhira.
...	...	...	...	...	88	− 4	·571	−·051	...	...	15	+0·1	5·55	10·68	−5·13	20·85	21·20	−0·35	0·78	Doom Dooma.
...	...	...	...	...	86	− 4	·595	−·025	...	...	14	−0·3	6·75	10·77	−4·02	24·05	19·76	+4·29	1·20	Dikom.
...	...	...	...	...	95	+ 6	·662	−·003	...	...	12	−1·7	6·78	7·07	−0·29	13·06	12·98	+0·08	1·20	Golaghat.
...	...	...	...	...	82	− 6	·694	+·003	...	...	16	+1·4	9·56	14·57	−5·01	23·70	24·03	−0·33	2·14	Hailakandi.
...	...	...	...	...	86	− 1	·611	−·033	...	...	18	+2·9	9·89	9·37	+0·52	19·94	15·94	+4·00	1·88	Jorehat.
...	...	...	...	...	80	...	·624	...	...	...	9	+0·1	3·56	4·10	−0·54	9·60	8·38	+1·22	1·02	Lumding.
...	...	...	...	...	70	− 9	·673	0	...	...	12	−0·2	7·10	6·11	+0·99	13·83	10·96	+2·87	3·53	Messa.
...	...	...	...	...	96	+10	·634	+·062	...	...	14	+1·8	7·71	7·81	−0·10	19·28	12·74	+6·54	1·23	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	4	−3·3	6·74	6·49	+0·25	20·26	11·14	+9·12	2·80	Comilla.
...	...	...	...	...	80	0	·764	+·018	...	...	5	−3·6	5·80	7·39	−1·59	17·38	13·16	+4·22	2·18	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	6	0	2·60	4·58	−1·98	17·31	8·56	+8·75	1·00	Faridpur.
...	...	...	...	...	72	− 5	·819	+·020	...	...	5	−1·1	4·76	4·07	+0·69	16·54	8·28	+8·26	1·94	Goalundo.
...	...	...	...	...	83	+ 4	·864	+·057	...	...	3	−1·5	0·85	2·92	−2·07	8·28	5·71	+2·57	0·37	Pabna.
...	...	...	...	...	...	...	...	...	...	...	3	−2·0	2·13	3·40	−1·27	6·09	5·99	+0·10	1·07	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	−2·8	0·01	1·85	−1·84	5·56	4·09	+1·47	0·01	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	1	−1·1	0·11	1.03	−0·92	3·01	3·36	−0·35	0·11	Malda.
...	...	...	...	...	...	...	...	...	...	...	5	+0·5	4·05	3·12	+0·93	6·09	5·45	+0·64	1·54	Rangpur.
...	...	...	...	...	97	+11	·670	−·035	...	...	4	−3·1	1·48	4·94	−3·46	8·16	8·85	−0·69	0·65	Dam Dim.
...	...	...	...	...	70	− 8	·666	−·079	...	...	10	+0·4	6·44	6·39	+0·05	15·04	10·55	+4·49	2·87	Kalchini.
...	...	...	...	...	65	− 8	·597	−·012	...	...	5	−4·1	2·34	6·25	−3·91	8·63	10·90	−2·27	0·61	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	6	−1·3	3·10	5·17	−2·07	6·30	8·70	−2·40	0·95	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	2	−1·9	0·53	2·30	−1·77	11·57	5·84	+5·73	0·36	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	1	−1·9	0·35	1·33	−0·98	7·39	4·18	+3·21	0·35	Bankura.
...	...	...	...	...	...	...	...	...	...	...	3	+0·3	1·18	1·42	−0·24	8·25	4·12	+4·13	0·50	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	1	−0·5	0·13	0·51	−0·38	3·72	3·66	+0·06	0·13	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−1·6	0	76	−0·76	3·03	2·72	+0·31	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−1·1	0	0·49	−0·49	1·60	2·18	−0·58	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−1·2	0	0·82	−0·82	0·61	2·63	−2·02	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−0·7	0	0·34	−0·34	2·29	2·06	+0·23	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−0·6	0	0·29	−0·29	2·44	2·38	+0·06	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	1	+0·4	0·25	0·24	+0·01	1·96	2·40	−0·44	0·21	Dehri.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	82·0	63·3	98·1	...	70·0	...	84·0	...	28·1	104·9	24th	59·9	10th	23	2	2	0	0	0	0	0	3	N 8° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	84·8	76·3	102·5	...	78·5	...	90·5	...	24·0	104·6	28th	71·1	17th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	83·1	77·9	97·9	...	76·9	...	87·4	...	21·0	103·1	25th	68·0	10th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	75·2	65·7	92·6	...	68·3	...	80·4	...	24·3	96·2	23rd & 24th.	62·8	11th	...	...	...	...	...	...	...	...	...	...	...
	Bay Stations.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	74·8	58·8	88·4	...	67·0	...	77·7	...	21·4	100·0	30th	56·7	5th	7	9	9	3	0	0	1	0	1	N 28° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	38·2	35·7*	48·5	...	20·2	...	34·4	...	28·2	60·1	29th	11·6	1st	11	0	0	0	5	4	9	1	0	S 16° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	72·2	64·1	87·7	+0·1	65·9	−0·9	76·8	−0·4	21·8	94·5	30th	55·5	13th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	64·3	60·2	69·4	−2·0	55·2	−2·6	62·3	−4·3	14·2	77·3	28th	49·7	4th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	56·1	−2·8	37·0	−1·8	46·6	−2·3	19·1	77·3	23rd	29·8	12th	12	0	0	8	3	2	3	2	0	S 45° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lishin	...	...	73·2	−2·5	38·2	−5·1	55·8	−3·8	35·0	84·4	22nd	22·4	5th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.

C—*continued.*

and fifth class stations in India, etc., in April, 1920—*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 1919 to 30th April 1920.	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	−0·8	0	0·32	−0·32	2·90	3·59	−0·69	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	−1·7	0·01	0·71	−0·70	5·06	7·62	−2·56	0·01	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	...	...	0	...	...	1·62	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0	0·18	−0·18	0·21	0·69	−0·48	0	Udaipur.
																				XII.—Central Provinces.
0·9	...	...	16	...	33	...	·353	...	2·1	...	0	−1·9	0·07	0·63	−0·56	6·39	3·29	+3·10	0·04	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	1	+0·2	0·18	0·35	−0·17	0·68	1·15	−0·47	0·18	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	12	+8·1	7·89	2·53	+5·36	17·39	9·74	+7·65	2·17	Tinnevelly.
...	...	...	...	...	67	...	·807	...	4·1	...	1	+0·2	0·31	0·37	−0·06	1·73	0·87	+0·86	0·26	Anantapur.
...	...	...	...	...	78	...	·886	...	...	...	2	+0·3	0·86	0·60	+0·26	3·95	2·69	+1·26	0·70	Guntur.
...	...	...	...	...	60	...	·518	...	...	...	5	...	2·24	...	...	2·93	...	...	1·18	Koraput.
																				Bay Stations.
...	...	...	...	...	...	...	...	...	...	...	6	+0·7	2·09	3·35	−1·26	16·97	17·94	−0·97	0·67	Car Nicobar.
																				Kashmir.
...	...	...	57	...	36	...	·300	...	4·5	...	0	−3·8	0	1·58	−1·58	9·78	11·94	−2·16	0	Jammu.
...	...	...	...	...	...	...	...	...	...	...	20	+6·9	17·71	10·14	+7·57	61·68	51·09	+10·59	2·85	Sonamarg.
...	...	...	50	...	69*	...	·167*	...	7·3	...	11	+7·3	3·80	1·94	+1·86	8·08	7·05	+1·03	0·85	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	4	+2·5	2·32	0·51	+1·81	4·43	5·40	−0·97	1·24	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	63	+2	·495	−·051	...	...	3	−3·1	2·03	3·96	−1·93	6·39	8·49	−2·10	0·76	Panighatta.
...	...	...	...	...	79	+6	·480	+·055	...	...	4	−3·3	3·68	4·29	−0·61	8·41	9·75	−1·34	2·22	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	16	−3·3	9·92	11·65	−1·73	27·28	26·07	+1·91	1·40	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	7	−7·0	2·84	7·36	−4·52	18·22	17·37	+0·85	1·00	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	9·95	...	...	24·47	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	2	...	1·33	...	...	8·61	...	...	1·21	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	2	−0·3	0·32	1·15	−0·83	10·69	10·52	+0·17	0·20	Mussoorie.
...	...	...	27	...	...	...	...	...	4·9	+1·1	9	+4·6	3·62	2·18	+1·44	11·91	10·52	+1·39	0·98	Poo.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	3·25	...	...	14·01	...	...	Kailang.
...	...	...	...	...	...	...	...	...	2·2	...	3	+0·9	0·57	0·83	−0·26	6·13	7·89	−1·76	0·24	Pishin.

* Mean of 20 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
	Extra India.																								
	Chumbi	39·3	39·0*	57·3	...	32·5	...	44·9	...	24·8	63·0	10th	22·4	9th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	80·7	63·2	92·2	...	66·3	...	79·3	...	25·9	101·0	16th	51·5	2nd	0	17	0	1	1	8	2	1	0	N 6° W	...

* Mean of 27 days.

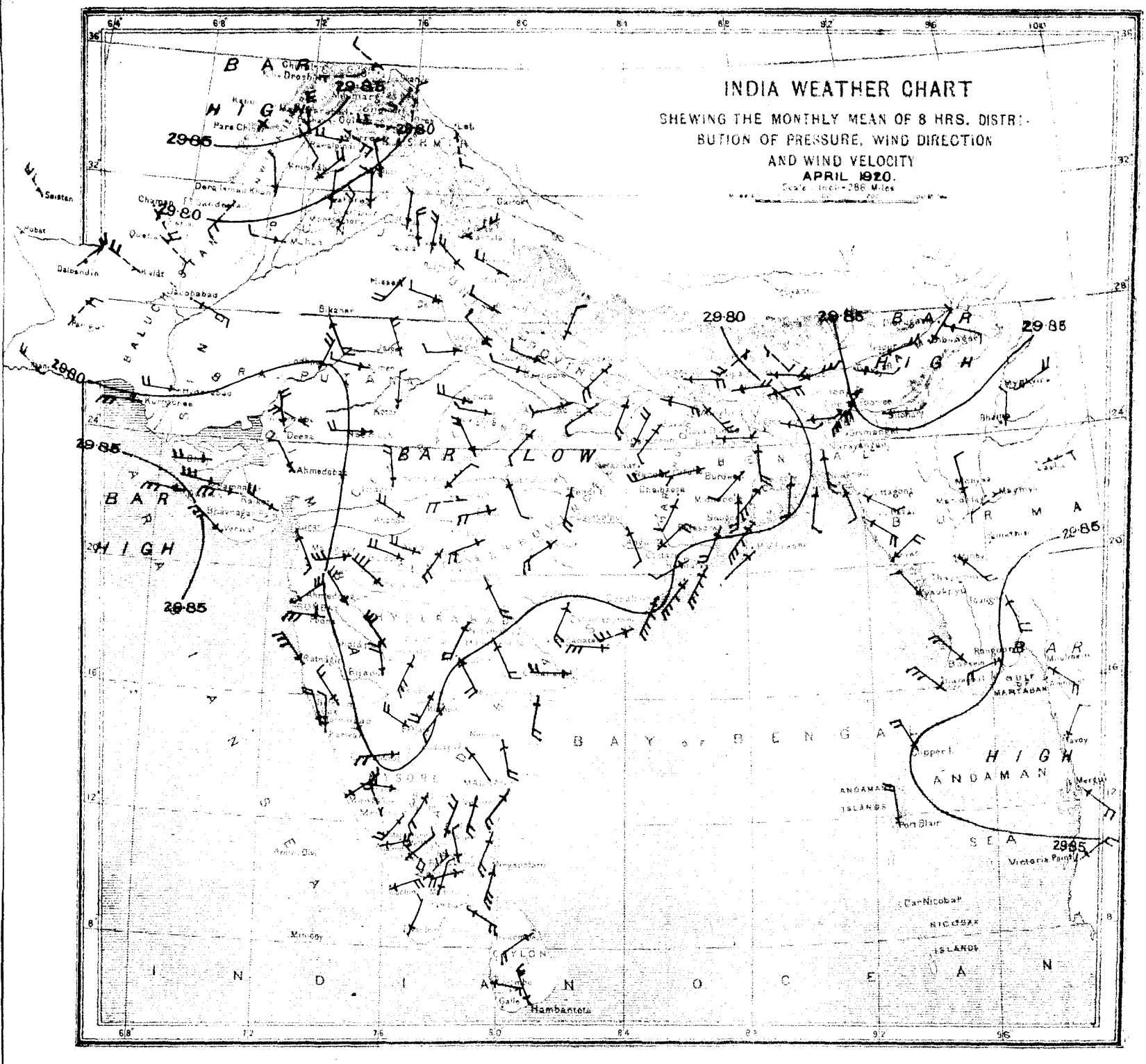
C—*concluded.*

and fifth class stations in India, etc., in April, 1920—*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. 1919 to 30th April 1920.	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.
...	...	...	...	...	·91*	...	·230*	...	3·9	...	3	−7·3	1·68	3·58	−1·90	19·23	7·69	+ 1·54	1·00	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	16	−3·2	23·41	22·93	+0·48	36·05	44·35	−8·30	7·75	Pemba.
...	...	...	23	...	·38	...	·341	...	...	...	1	...	0·90	...	...	6·95	...	...	0·85	Abadan.

SGPI-21-IV-5-(10)-11-12-22-325.

* Mean of 27 days.

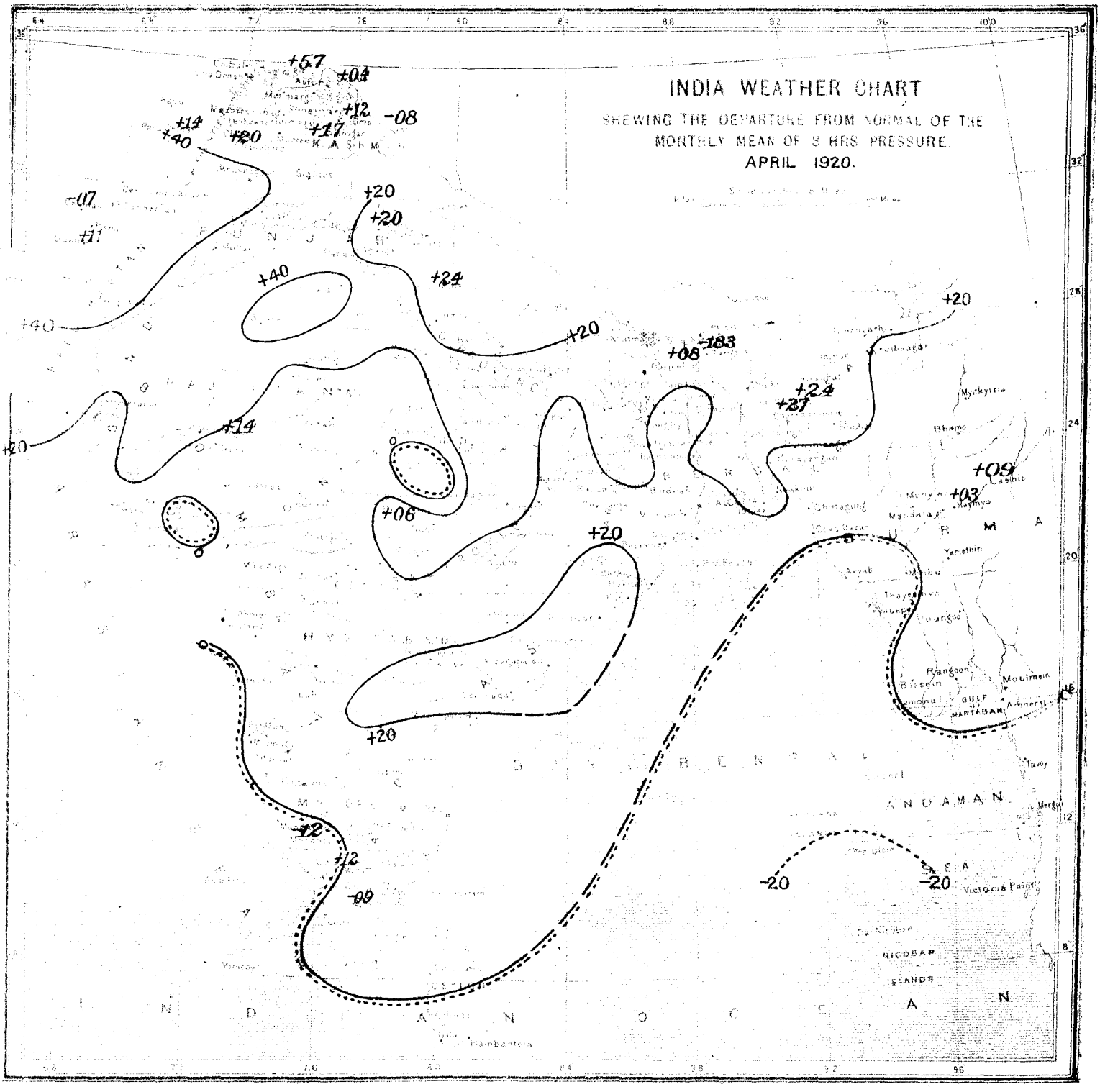


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

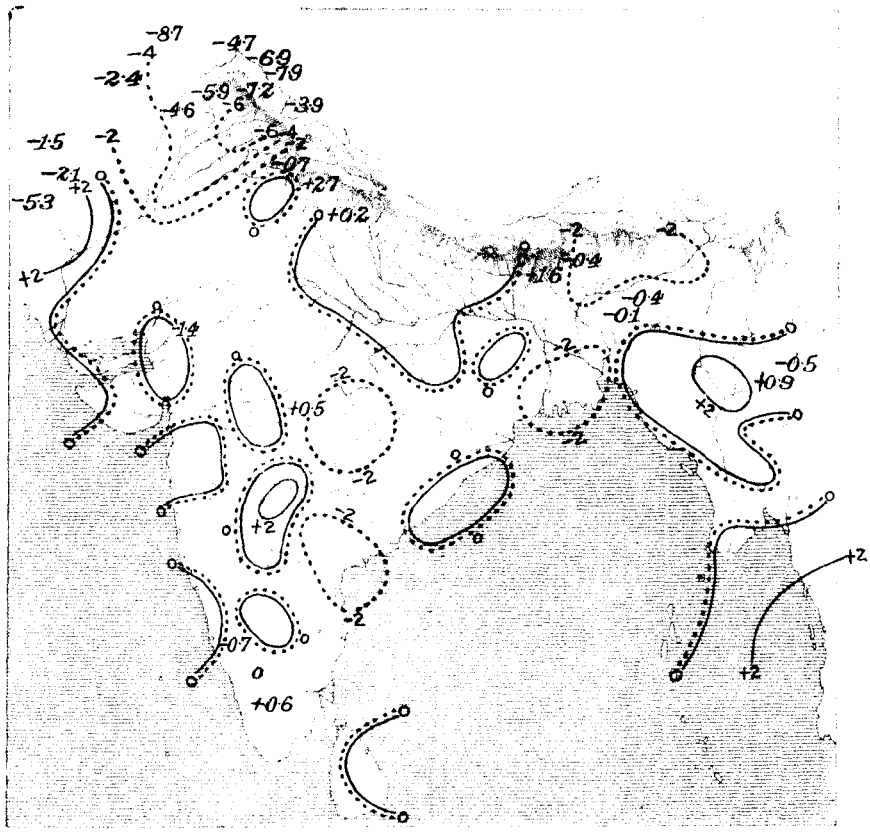


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

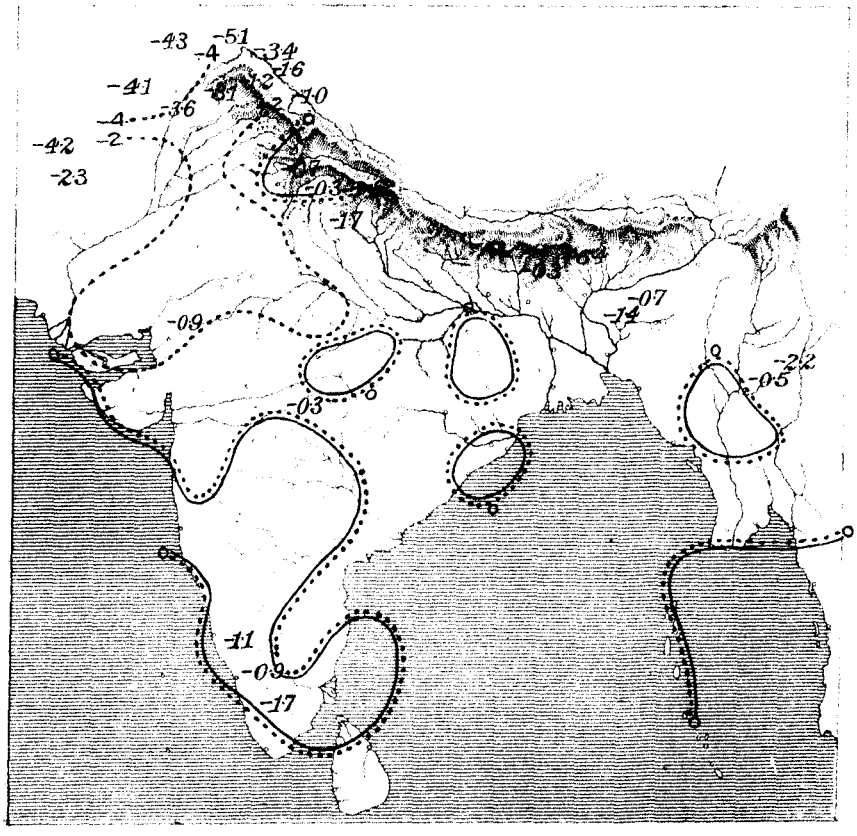


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE

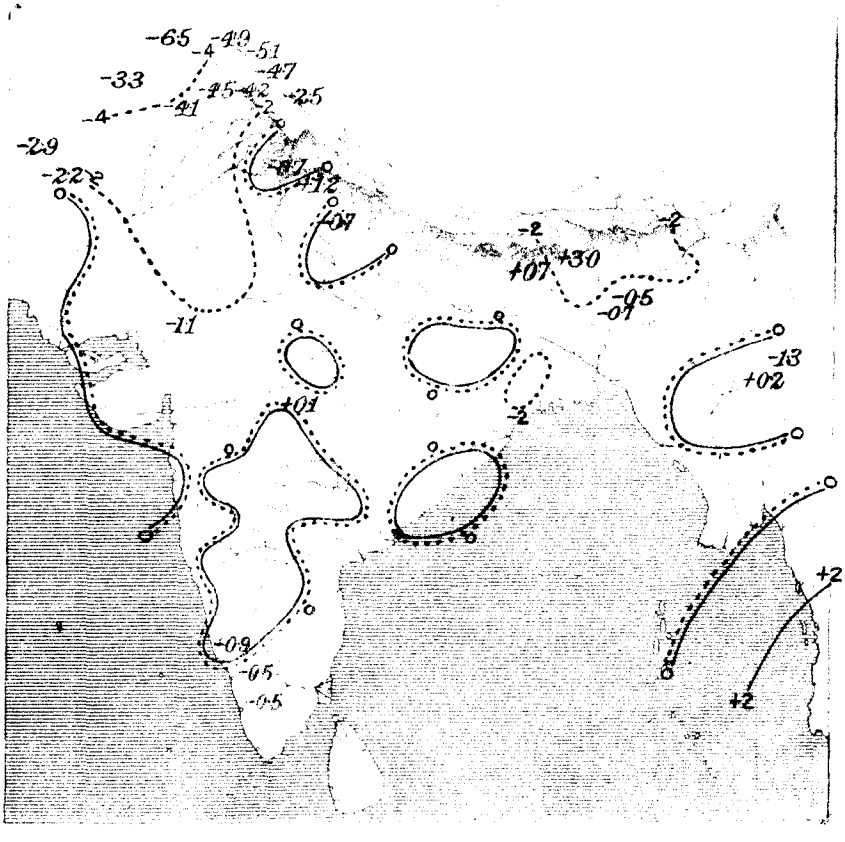


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

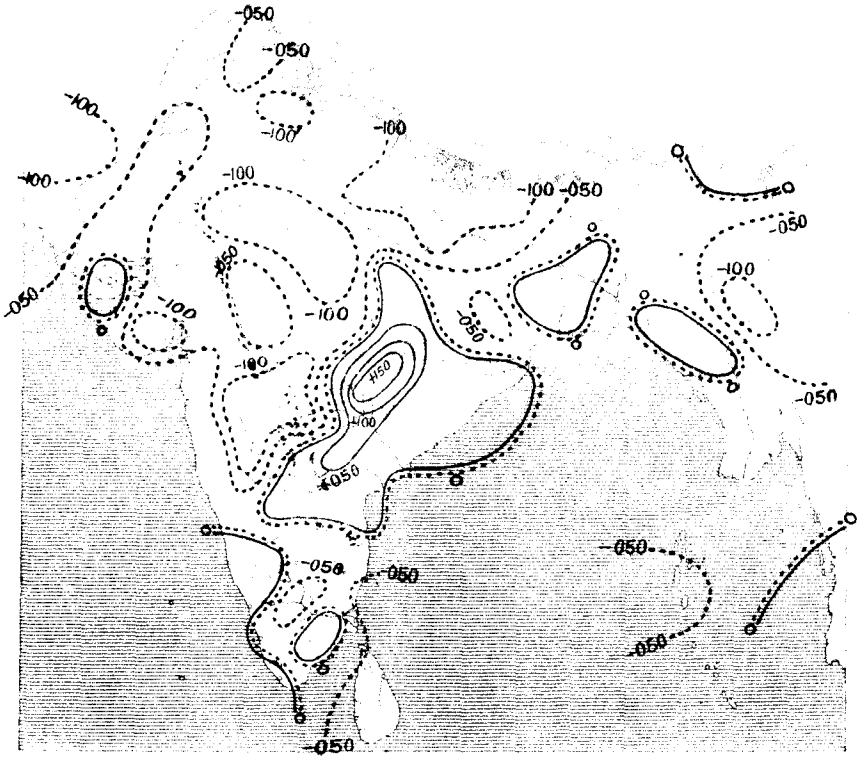


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

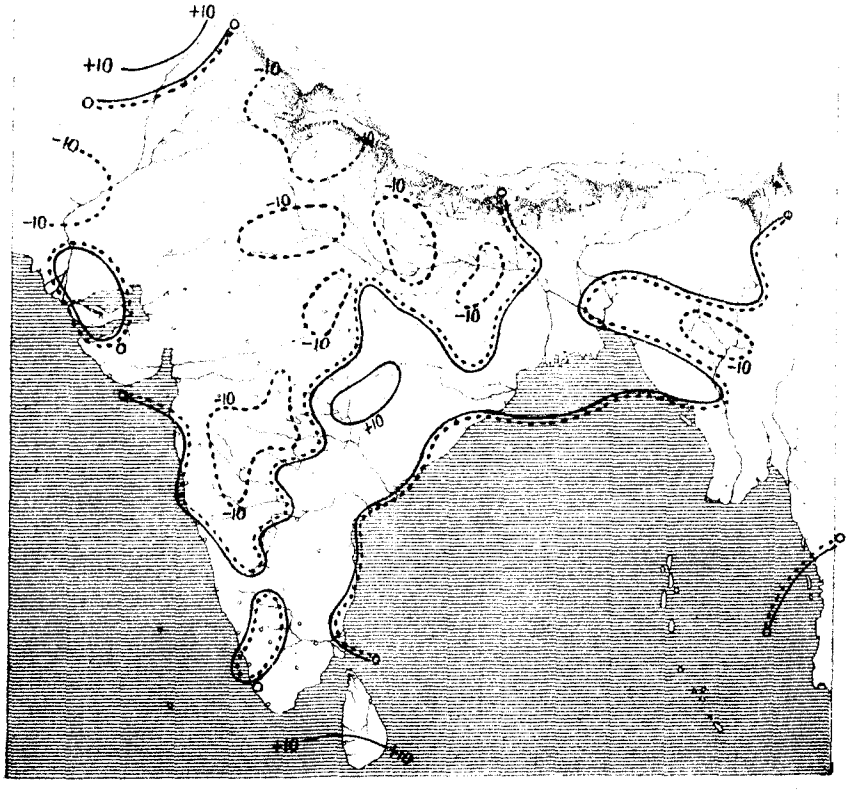


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

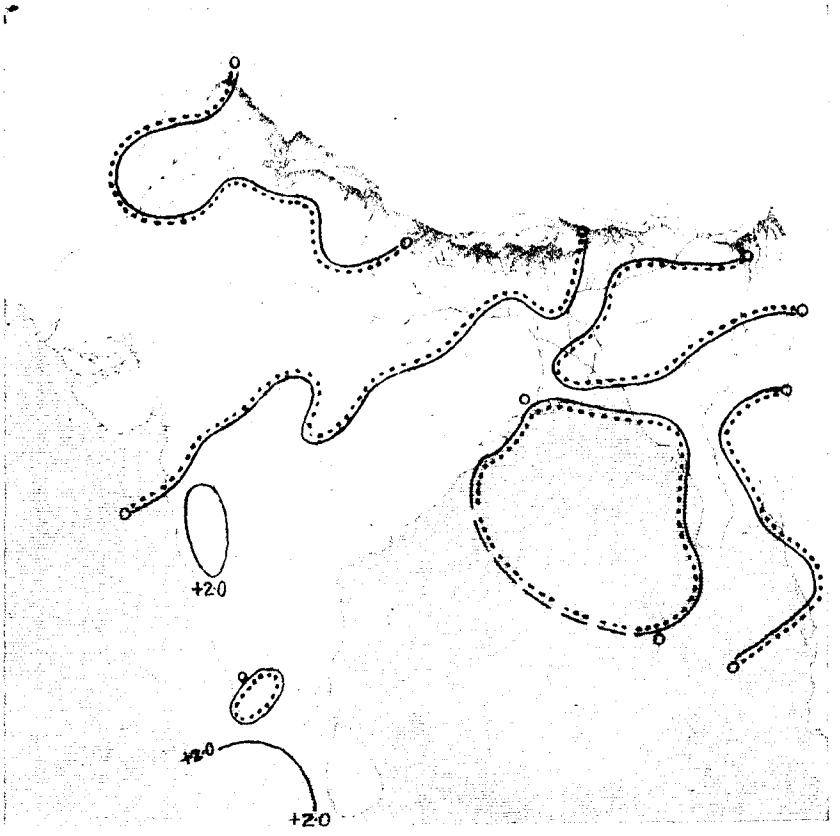
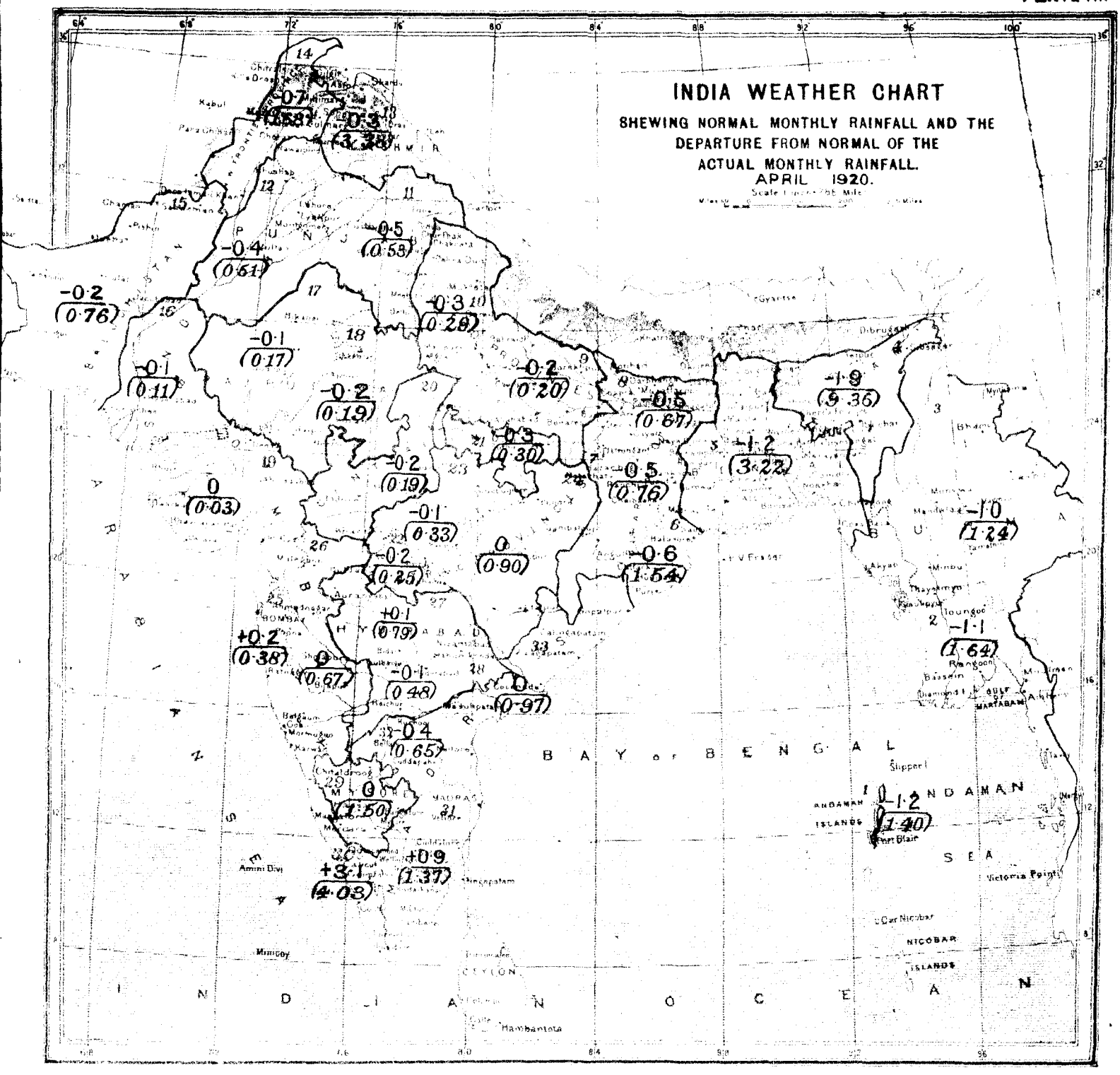


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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, 1920.

INTRODUCTION

THIS review of the weather in India during the month of May, 1920, is based on observations taken daily at 8 hrs. at 212 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and 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.

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. Four disturbances of the winter type passed into India from the west during the month, and, in addition to giving the rain and snow in the hills around the Punjab, caused numerous dust-storms and thunder-storms with unusually heavy rain in the plains of north-west India. Rainfall associated with one of them was widespread between the 22nd and 26th over northern and central India. Passing eastwards they helped to increase the rainfall in north-east India, where, however, the month was on the whole less rainy than usual. In the Peninsula rainfall was limited to scattered falls during the first three weeks, but was more or less widespread during the rest of the month. The cyclonic storm of slight intensity, which was in the centre of the Bay at the beginning of the month, moved towards the Arakan coast and disappeared on the 5th after giving widespread and locally heavy rain in Burma. Towards the close of the month there was a feeble short-lived advance of the monsoon at Colombo.

The total rainfall of the month was considerably above normal in Central India and the greater part of north-west India; over the remainder of the country with the exception of Upper Burma, the Central Provinces proper, Hyderabad South and the Madras Coast North, it was in slight to moderate defect.

In Persia weather was exceptionally wet at the northern stations. The islands in the Indian Ocean had also a decided excess of rainfall.

The distribution of cloud agreed generally with that of rainfall; cloud proportion was in excess in north-west India, the United Provinces West, the Central Provinces and the Madras Coast North, and in marked defect in Assam, Bengal, Mysore and the Madras Deccan. The quantity of vapour in the air was below normal over most of the country. The deficiency was most marked in upper Sind, Rajputana, United Provinces East, Bihar, Chota Nagpur and Hyderabad North; relative humidity was also distinctly low in these areas.

Two cold waves associated as usual with high pressures, following in the wake of the 2nd and 3rd western disturbances, affected the weather in northern India during the month. The first appeared in north-west India on the 12th and spreading eastwards to the United and Central Provinces lasted till the 18th. The second appeared on the 23rd and persisted till the end of the month, giving exceptionally low temperatures and high pressures from the western frontier to Bihar and Orissa. In this tract of country both maximum and minimum temperatures were on the mean of the month below normal.

Averaged over the plains of India as a whole barometric pressure was ·016″ above normal. The excess was most marked in north-west India; but the high pressure was mostly confined to the lower layers of the atmosphere with the result that the vertical gradient was much steeper than usual.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculae on all days during the month, but prominences could not be photographed on 2 days.

Sunspots.—Eighteen new groups were recorded. The mean daily number was 2·7 and the average life of a spot was 5·2 days as against 1·4 and 3·9 days respectively in April. The sun was free from spots on one day. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	0°—10°	11°—20°	21°—30°	Mean latitude.	Extreme latitudes.
North . . .	5	6	1	12°·0	5° & 23°
South . . .	4	2	...	9°·0	4° & 17°

The recurrent group referred to in the reports for the previous months again returned during the month, but was very much reduced in size and disappeared before crossing the west limb. Its meridian passage on the 14th was again marked by a "Great" magnetic disturbance.

Prominences.—Fifty prominences reaching to a height of one minute or more, and 11 metallic prominences were recorded. The greatest height recorded was 210″ on the 20th.

Magnetic Disturbances.—"Great" disturbances were recorded from 1st to 2nd, on the 9th, from 13th to 14th and 27th to 28th, all of which were probably due to sunspots near the central meridian. "Moderate" disturbances were registered on 11 other days.

T. ROYDS,
Acting 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	G	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·2	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.)	Remarks.
1920.		h. m. s.						
May 2nd	e P	8 38 42	...		...	...	...	
	e L	8 41 48	...	.	...	...	...	
	M	8 43 48	...	...	100	...	...	
	F	9 11 00	...	...	...	...	...	
„ 2nd	e P	14 57 12	...	...	...	...	...	
	e L	15 00 12	...		...	...	...	
	M	15 02 48	...	...	80	..	...	
	F	15 28 00	...	...	...	...	...	
„ 7th	e P	5 42 18	...	...	...	...	...	
	e L	6 11 30	...	...	...	...	...	
	M	6 14 42	...	...	340	...	...	
	F	6 55 00	..	..	...	..	...	
„ 7th and 8th.	e P	21 53 54	...	..	...	...	...	
	e L	22 19 42	...	...	...	...	...	
	M	22 23 24	...	...	200	...	...	
	F	0 10 00	...	...	...	...	...	
„ 10th	e P	18 58 42	...	...	...	...	...	
	e L	19 21 48	...	...	...	...	...	
	M	19 23 00	...	...	80	...	...	
	F	19 56 06	...	...	...	...	...	
„ 13th	e P	2 08 00	...	...	...	...	...	
	e L	2 31 30	...	...	...	...	...	
	M	2 34 06	...	...	80	...	...	
	F	3 12 06	...	...	...	...	...	
„ 19th	e P	13 10 00	...	...	...	...	...	Widening of line.
	F	13 24 24	...	...	...	...	...	
„ 20th	e P	8 15 06	...	...	...	...	...	
	e L	8 27 24	...	...	...	...	...	
	M	8 30 00	...	...	100	...	...	
	F	8 52 36	...	...	...	...	...	
„ 27th	e P	6 03 18	...	...	...	...	...	Widening of line.
	F	6 08 12	...	...	...	...	...	

A. A. NARAYANA AIYAR,
Acting Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of May 1920, the traces showed 12 calm days, 18 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 6th, 11th, 12th, 23rd and 24th.

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	C	26	S
3	S	11	C	19	C	27	S
4	S	12	C	20	S	28	S
5	C	13	M	21	S	29	S
6	C	14	S	22	S	30	S
7	C	15	S	23	C	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 declination for the month, are as follows :—

Easterly declination . .	0° 21′ 3″
Horizontal force . . .	0·36919 C. G. S. unit.
Vertical force . . .	0·17144 „ „
Inclination	24° 54′·5.
Horizontal force range . .	0·00047.
Horizontal force summed range	0·00321.
Declination range . . .	4′·8.
Declination summed range .	20′·6.

NOTE.—Summed range means sum without regard to sign of 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 (E.-W.).

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.
1920.		h. m. s.						
May 2nd	P	8 37 3	...	...	...	...	...	
	M	8 40 26	...	...	90	...	...	
„ 2nd	P	14 55 56	...	...	...	...	...	
	M	14 59 13	...	...	120	...	...	
„ 7th	P	5 50 4	...	...	...	...	...	
	M	6 10 57	...	...	75	...	...	
„ 7th	P	21 44 23	...	...	...	...	...	
	M		...	...	...	...	...	Maximum cannot be determined as the movements are very small.
„ 13th	P	2 0 17	...	...	...	...	...	
	M	...	...	...	...	...	...	Ditto.

SHAMSHAD ALI,
for *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.
1920.		h. m. s.						
May 1st	P	23 23 48	2	...	...	...	...	
	F	23 41 6	...	...	...	...	...	
„ 2nd	P	8 31 18	3	...	...	...	...	
	L	8 33 54	7	...	...	...	...	
	F	9 12 0	...	...	...	...	...	
„ 2nd	P	14 49 42	3	...	...	...	...	
	L	14 52 42	7	...	...	...	...	
	F	15 35 6	...	...	...	...	...	
„ 6th	P	18 50 18	2	...	...	...	...	
	F	?	...	...	...	...	...	
„ 7th	P	5 48 54	3	...	...	...	...	
	S	5 54 6	3	...	...	...	...	
	L	5 58 30	13	...	...	...	...	
	F	6 18 6	...	...	...	...	...	
1920.		h. m. s.						
May 7th	P	21 52 36	2	...	...	...	...	
	F	22 45 30	...	...	...	...	...	
„ 10th	P	19 4 54	?	...	...	...	...	
	F	19 28 54	...	...	...	...	...	
„ 20th	P	7 38 30	3	...	...	...	...	
	F	8 25 42	...	...	...	...	...	
„ 21st	P	8 41 30	2	...	...	...	...	
	F	8 59 0	...	...	...	...	...	
„ 27th	P	5 54 42	2	...	...	...	...	
	L	5 59 42	4	...	...	...	...	
	F	6 31 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	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.
1920.		h. m. s.						
May 1st	e P	23 17 48	...	...	...	...	...	
	F	23 24 18	...	...	...	...	...	Slight local shock.
„ 2nd	e	8 33 18	...	...	...	...	...	
	L	8 35 18	18	...	...	...	...	
	M	8 35 30	...	357	...	...	...	
	F	8 58 00	...	...	...	...	...	
„ 2nd	e	14 52 18	...	...	..	...	...	
	L	14 53 54	...	...	...	...	...	
	M	14 54 42	...	679	...	...	...	Pendulum striking against stop on one side.
	F	15 14 54	...	...	...	...	...	
„ 6th	P	18 43 54	...	...	...	...	...	
	F	18 44 06	...	...	..	...	...	Very slight local shock.
„ 6th	P	18 45 12	...	...	...	...	...	Felt at Nowshera, Drosh and Srinagar.
	F	18 50 00	...	...	...	..	...	Very slight local shock.
„ 7th	e P	5 49 48	...	...	...	...	...	
	e L	5 57 06	...	...	...	...	...	
	M	6 10 18	...	143	...	...	...	
	F	7 03 12	...	...	...	...	...	
May 7th	e	21 53 54	...	...	...	...	...	
	M	22 21 54	...	107	...	...	...	
	F	23 40 06	...	...	...	...	...	
„ 13th	e	2 09 18	...	...	...	...	...	An earthquake had occurred in Mesopotamia at midnight of the 12th-13th.
	L	2 24 42	...	...	...	...	...	
	M	2 31 42	...	...	...	...	...	
	F	3 27 12	...	...	...	...	...	
„ 19th	...	.....	...	...	...	...	...	Tremors between 3 hrs. 40 mins. and 4 hrs. 10 mins. Time marker not working.

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.
	1920.	h. m.	Sec.			
Nowshera (Peshawar District).	May 6th	18 40	60	7	1	
Drosh . .	„ 6th	18 41	60	9	4	Damaged several houses.
Srinagar (Kashmir)	„ 6th	18 52	10	8	2	

S. SITARAMAYYA,
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.	+·015	—·005	—·013
Actual mean wind direction . .	S 70° E	S 19° W	S 43° E
Normal mean wind direction . .	S 63° E	S 7° W	S 43° E
Actual mean wind velocity (miles per diem).	173	130	167
Normal mean wind velocity (miles per diem).	178	142	120
Rainfall departure from normal in inches	+1·00	+4·12	+0·59

Depressions and cyclonic storms.

8. Four disturbances from the west passed into north-west India during the month. The first caused rain only in Kashmir; the second gave rain between the 8th and 10th in Kashmir, the east Punjab plains and neighbouring hills, as well as in north-east India. A heavy thunder-storm which passed over Delhi on the 9th is reported to have caused some damage to property and the death of two persons. The third entered north-west India on the 19th, and in conjunction with a pressure distribution favouring an inflow of moist winds from the Indian seas, caused between the 22nd and 26th widespread rain in northern and central India. During the thunder-storms that occurred at Baroda in this period several houses with corrugated iron roofs were unroofed and many mud houses blown down. The fourth disturbance caused between the 29th and 31st nearly general rain in north Baluchistan and Sind, and local rain in Gujarat. Two cold waves affected northern India in the rear of the second and third disturbances, and occasioned very low temperatures, especially in north-west India.

An account of the storm that was in the centre of the Bay at the beginning of the month and disappeared on the Arakan coast on the 5th after causing widespread rain in Burma between the 3rd and 5th will be found in the Monthly Weather Review for April.

Pressure.

9. The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·014
Assam	—·010
Bengal	—·003
Bihar and Orissa	+·016
United Provinces	+·033
Punjab	+·046
North-West Frontier Province	+·042
Sind	+·040
Rajputana	+·032
Bombay	+·009
Central India	+·024
Central Provinces	+·022
Hyderabad	+·012
Mysore	+·009
Madras	+·006

The following table gives a comparison of the departure from normal of mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	0	Jacobabad	+·065	+·065
Leh	—·072	Lahore	+·045	+·117
Murree	—·016	Peshawar	+·033	+·049
Simla	—·017	Ludhiana	+·044	+·061
Mukteswar	—·026	Bareilly	+·023	+·049
Darjiling	—·032	Dhubri	—·008	+·024
Mount Abu	+·016	Deesa	+·015	—·001
Pachmarhi	—·004	Khandwa	+·017	+·021
Kodaikanal	+·003	Madura	+·011	+·008

Temperature.

10. Owing to the two spells of low temperatures that prevailed over northern India, the mean temperature of the month was slightly to moderately below normal in the United Provinces and most of north-west India and of the central parts of the country. The deficiency was equally marked both in the maximum and the minimum temperatures. Remarkably low maximum temperatures were recorded during the second cold wave. The maximum at the following stations in the Punjab and the west of the United Provinces fell to or below the normal minimum for the period.

TABLE 11.

Station.	Date.	Maximum temperature.		Minimum temperature.	
		Actual.	Departure from normal.	Actual.	Departure from normal.
		°	°	°	°
Mainpuri . .	26th	79·2	—31·1	67·1	—16·4
Delhi . . .	27th	81·7	—24·3	66·0	—16·4
Hissar . . .	27th	80·7	—27·8	64·2	—16·4
Khushab . .	28th	75·2	—32·7	59·2	—20·8

Table 12 gives the actual temperature and its departure from normal in the 33 sub-divisions, while table 13 gives only the departures from normal in the 15 chief political divisions.

TABLE 12.

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	88·1	79·0	83·5	9·1	—0·9	—0·1	—0·8
2. Lower Burma	90·1	77·0	83·5	13·1	+0·1	+0·2	—0·1
3. Upper Burma	94·9	74·1	84·5	20·7	—0·6	—0·8	+0·2
4. Assam	86·5	70·6	78·6	15·9	—0·6	—1·2	+0·6
5. Bengal	93·2	75·6	84·4	17·6	+0·8	—0·4	+1·2
6. Orissa	99·2	78·5	88·8	20·6	—0·7	—1·3	+0·6
7. Chota Nagpur	101·6	75·3	88·5	26·3	—1·4	—2·1	+0·7
8. Bihar	100·0	75·6	87·8	24·4	+1·2	—1·1	+2·3
9. United Provinces, East	101·7	74·9	88·3	26·9	—2·7	—3·3	+0·6
10. Do. do., West	101·1	73·3	87·2	27·7	—4·5	—5·7	+1·2
11. Punjab, East and North	96·5	68·4	82·5	28·1	—7·3	—6·8	—0·5
12. Do., South-west	97·8	69·3	83·5	28·4	—8·2	—7·6	—0·6
13. Kashmir	66·1	43·1	54·7	22·9	—9·0	—5·8	—3·2
14. North-West Frontier Province	96·3	67·5	81·9	28·8	—4·7	—4·8	+0·1
15. Baluchistan	87·1	58·4	72·8	28·7	—5·4	—5·5	+0·1
16. Sind	100·8	77·4	89·1	23·3	—1·9	—0·8	—1·1
17. Rajputana, West	101·4	74·5	87·9	26·9	—5·5	—7·1	+1·6
18. Do., East	100·3	74·2	87·3	26·1	—6·1	—7·1	+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.
	°	°	°	°	°	°	°
19. Gujarat	97·9	77·1	87·5	20·8	—1·7	—0·7	—1·0
20. Central India, West	99·0	71·3	85·0	27·7	—4·3	—5·5	+1·2
21. Do. do., East	101·3	74·7	88·1	26·5	—5·1	—5·1	0
22. Berar	105·7	78·0	91·9	27·7	—2·3	—2·7	+0·4
23. Central Provinces, West	102·1	75·6	88·9	26·5	—4·2	—4·1	—0·1
24. Do. do., East	103·9	76·8	90·4	27·1	—2·5	—3·1	+0·6
25. Konkan	90·5	80·4	85·5	10·1	+0·2	+0·1	+0·1
26. Bombay Deccan	100·1	71·7	85·9	28·4	—0·6	—1·3	+0·7
27. Hyderabad, North	104·9	76·9	90·9	28·0	—0·3	—1·3	+1·0
28. Do., South	104·5	79·1	91·9	25·5	+0·3	—1·1	+1·4
29. Mysore	93·0	69·0	80·9	24·1	+1·5	—0·3	+1·8
30. Malabar	90·1	78·9	84·5	11·1	+0·5	+0·9	—0·4
31. Madras, South-east	98·5	79·3	88·9	19·3	+0·5	+0·7	—0·2
32. Do., Deccan	104·8	80·6	92·7	24·2	+0·2	0	+0·2
33. Do. Coast, North	96·1	80·5	88·3	15·6	—0·4	—0·3	—0·1

TABLE 13.

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

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	—1·9	—0·8	—1·4
Rajputana	—5·9	—7·1	—6·5
Bombay	—0·9	—0·7	—0·8
Central India	—4·7	—5·3	—5·1
Central Provinces	—3·5	—3·6	—3·5
Hyderabad	+0·1	—1·2	—0·5
Mysore	+1·5	—0·3	+0·5
Madras	+0·3	+0·4	+0·4

Surface and upper winds.

11. *Surface.*—The easterly component in the wind direction was weaker than usual at the head of the Bay. In the east of the Bay winds were more easterly than usual.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 14.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	4·2	+0·4		+ 6
Assam	3·6	+0·4	35	+ 2
Bengal	3·9	—0·3	52	— 7
Bihar and Orissa	4·4	—0·3	4	—12
United Provinces	2·8	—0·3	24	+ 1
Punjab	3·3	+0·2	24	+ 5
North-West Frontier Province	1·9	—0·7	22	+ 4
Sind	5·8	—3·0	43	—15
Rajputana	6·1	—0·4	37	—27
Bombay	6·7	—1·9	62	— 7
Central India	4·4	—1·1	44	—17
Central Provinces	5·3	+0·1	43	—13
Hyderabad		—0·2	71	+ 8
Mysore	6·3	+0·9	85	+ 5
Madras	5·6	0	64	+ 7

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab and Calcutta during the month are given in the following table :—

TABLE 15.

Height above sea, kms.	Agra. Height above sea= 0·17 km.				Simla. Height above sea= 2·13 kms.				Lahore. Height above sea= 0·21 km.				Bangalore. Height above sea= 0·92 km.				Akyab. Height above sea= 0·01 km.				Calcutta. Height above sea= 0·01 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	33	1·5	0·9	279	30	1·9	0·5	27	25	0·7	0·2	39	26	4·4	4·1	276	24	1·6	0·5	223	23	2·6	1·5	200
0·5	33	7·8	3·4	297	...	...	...	...	25	6·8	1·9	57	...	...	...	...	24	4·8	1·4	230	23	4·9	3·2	218
1·0	32	7·9	4·7	291	...	...	...	...	25	5·9	2·0	43	26	4·6	4·2	287	24	4·8	1·7	256	22	4·2	2·7	236
1·5	31	7·7	5·4	290	...	...	...	...	25	5·4	1·7	351	30	5·5	4·9	310	18	4·6	2·6	290	16	4·0	2·3	256
2·0	31	8·9	7·3	282	...	...	...	...	24	5·8	2·6	335	30	5·2	3·8	340	17	4·7	3·2	306	16	5·0	3·7	269
2·5	30	9·8	7·9	283	28	6·4	1·6	333	24	6·6	3·4	315	26	5·3	3·4	12	15	4·9	3·7	320	11	5·6	4·6	288
3·0	30	11·0	8·7	283	29	6·3	2·3	305	24	7·4	4·8	301	23	5·1	3·9	51	14	5·4	4·4	333	9	7·4	6·0	283
3·5	26	11·4	9·0	281	28	7·0	1·8	286	24	7·9	5·4	297	22	5·0	4·2	63	12	6·5	5·8	342	7	8·9	7·7	294
4·0	23	11·6	9·2	287	26	7·7	1·9	278	24	8·7	6·5	293	21	5·1	3·6	65	11	6·4	5·9	341	5	10·0	9·2	300
4·5	16	12·8	10·7	288	19	7·0	3·2	287	23	9·9	8·4	291	19	4·5	2·2	61	10	6·9	5·7	336	3	9·2	8·5	291
5·0	12	13·9	12·0	279	18	7·9	5·3	292	23	11·6	9·9	291	17	3·7	1·8	66	10	8·3	6·4	337	2	12·3	10·5	291
5·5	10	14·1	11·3	282	15	9·2	6·8	287	23	12·9	11·3	289	16	4·5	1·5	56	2	10·2	8·7	305	...	...	...	...
6·0	7	15·4	10·7	303	15	9·8	6·8	278	23	14·6	13·1	284	16	5·0	2·1	26	1	5·0	5·0	355	...	...	...	...
6·5	5	14·5	9·5	289	15	11·1	8·2	271	23	15·7	14·9	283	16	5·9	3·3	29	1	7·0	7·0	40	...	...	...	...

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.			
	N		v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
7·0		15·3	10·8	292	13	12·9	9·6	272	21	17·0	16·3	285	16	6·3	3·6	14	1	7·5	7·5	10	...	...	...	...
7·5	4	17·0	12·9	302	12	14·8	12·3	273	18	19·3	18·2	288	16	7·3	5·0	10	1	8·0	6·0	5	...	...	...	...
8·0	4	20·0	16·6	297	9	16·5	13·4	272	16	23·5	22·6	288	16	6·8	4·5	7	1	6·5	6·5	35	...	...	...	...
8·5	3	14·3	10·8	284	8	19·4	15·9	272	13	26·3	25·7	288	14	5·3	3·4	351	...	...	...	...	...	...	...	...
9·0	2	7·7	7·1	201	6	23·0	22·2	278	11	26·2	25·3	293	12	4·9	3·1	358	...	...	...	...	...	...	...	...
9·5	2	5·3	4·9	187	4	21·0	20·2	267	7	23·9	22·3	290	10	4·7	1·6	309	...	...	...	...	...	...	...	...
10·0	2	8·3	7·7	222	3	16·8	16·3	246	6	25·7	24·3	286	10	5·3	3·4	298	...	...	...	...	...	...	...	...
10·5	2	10·0	9·3	236	3	19·7	19·6	242	4	25·6	24·4	279	9	5·4	2·8	266	...	...	...	...	...	...	...	...
11·0	2	14·0	12·7	245	2	18·0	17·9	255	4	28·5	27·7	277	8	6·1	4·0	260	...	...	...	...	...	...	...	...
11·5	2	13·5	11·5	261	2	22·3	22·3	260	2	24·7	24·3	269	8	6·6	3·9	247	...	...	...	...	...	...	...	...
12·0	2	15·0	13·0	263	2	24·3	24·3	265	2	25·0	24·3	265	6	5·3	1·9	288	...	...	...	...	...	...	...	...
12·5	1	14·0	14·0	275	1	28·0	28·0	270	2	28·5	28·2	261	5	4·9	1·0	286	...	...	...	...	...	...	...	...
13·0	1	17·5	17·5	275	1	24·0	24·0	270	2	31·7	31·7	260	5	5·3	2·8	267	...	...	...	...	...	...	...	...
13·5	...	...	...	...	1	21·5	21·5	265	2	34·0	33·7	255	3	6·2	2·4	166	...	...	...	...	...	...	...	...
14·0	...	...	...	...	1	18·5	18·5	275	...	...	...	...	2	3·5	1·7	277	...	...	...	...	...	...	...	...
14·5	...	...	...	...	...	...	...	-	...	...	...	...	2	3·0	1·2	254	...	...	...	...	...	...	...	...
15·0	...	...	...	...	...	...	...	...	...	...	...	...	2	2·7	1·7	296	...	...	...	...	...	...	...	...
15·5	...	...	...	...	...	...	...	...	...	...	...	...	1	3·5	3·5	260	...	...	...	...	...	...	...	...

N = Number of flights.
V = Velocity of wind, regardless of direction, metre per sec.
v = Velocity of Resultant Wind; taking account of direction, metre per sec.
L = Direction of Resultant Wind, North wind = 0° or 360°, East wind = 90°.

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 16.

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 . . .	79	—2	·835	—·028	6·0	0
Assam . . .	85	—2	·772	—·033	5·0	—1·3
Bengal . . .	78	—3	·849	—·046	4·1	—0·8
Bihar and Orissa .	59	—4	·678	—·077	3·0	+0·2
United Provinces .	41	—5	·480	—·126	1·7	+0·2
Punjab. . .	40	+1	·393	—·094	2·1	+0·5
North-West Frontier Province.	49	+3	·429	—·115	1·7	+0·1
Sind . . .	55	—4	·644	—·083	1·4	—0·2
Rajputana . .	36	—3	·384	—·147	1·9	+0·9
Bombay . .	66	+1	·737	—·030	3·2	+0·3
Central India .	43	+2	·496	—·048	1·5	—0·1
Central Provinces .	36	—1	·439	—·083	2·3	+0·6
Hyderabad . .	46	—3	·566	—·017	2·6	—0·1
Mysore . .	70	—4	·613	—·053	4·2	—0·9
Madras. . .	69	—1	·841	—·025	4·4	—0·2

Rainfall.

13. The total rainfall of the month was largely above normal in the Punjab South-west, Baluchistan, Sind, Rajputana East, Gujarat and Central India East, and in slight to moderate excess in the United Provinces West, the Punjab East and North, Kashmir, Central India West, Hyderabad South and the Madras Coast North. Nearly the normal amount fell in Upper Burma, the North-West Frontier Province, Rajputana West and the Central Provinces proper. Over the rest of the country rainfall was in slight to moderate defect.

TABLE 17.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal
			"	"	"	
1. Bay Islands	8·3	10·3	5·72	8·97	—3·25	— 3
2. Lower Burma	10·4	13·2	8·77	12·96	—4·19	— 32
3. Upper Burma	5·5	8·0	5·39	5·83	—0·44	— 8
4. Assam	12·4	14·6	10·56	13·56	—3·00	— 22
5. Bengal	5·5	9·2	5·11	8·09	—2·98	— 37
6. Orissa	3·5	4·8	2·19	3·06	—0·87	— 28
7. Chota Nagpur	3·1	3·5	1·59	1·99	—0·40	— 20
8. Bihar	1·9	3·4	1·13	2·39	—1·26	— 53
9. United Provinces, East	1·1	1·4	0·57	0·67	—0·10	— 15
10. Do., West	2·1	1·4	0·93	0·65	+0·28	+ 43
11. Punjab, East and North	2·3	1·3	0·96	0·60	+0·36	+ 60
12. Do., South-west	2·6	0·8	0·97	0·36	+0·61	+169
13. Kashmir	5·1	3·8	2·51	2·06	+0·45	+ 22
14. North-West Frontier Province	2·1	1·6	0·78	0·77	+0·01	+ 1
15. Baluchistan	0·9	0·4	0·54	0·16	+0·38	+237
16. Sind	1·6	0·2	0·61	0·10	+0·51	+510
17. Rajputana, West	3·7	0·6	2·05	0·27	+1·78	+ 7
18. Do., East	2·5	1·0	1·24	0·41	+0·83	+202
19. Gujarat	3·2	0·3	1·77	0·17	+1·60	+941
20. Central India, West	1·5	0·8	0·47	0·31	+0·16	+ 52
21. Do., East	2·2	0·7	1·10	0·27	+0·83	+307
22. Berar	0·5	0·9	0·13	0·42	—0·29	— 69
23. Central Provinces, West	1·1	1·0	0·36	0·39	—0·03	— 8
24. Do., East	1·5	1·3	0·57	0·60	—0·03	— 5
25. Konkan	0·6	1·6	0·23	1·30	—1·07	— 82
26. Bombay Deccan	1·0	2·2	0·59	1·25	—0·66	— 53
27. Hyderabad, North	1·4	1·4	0·33	0·63	—0·30	— 48
28. Do., South	2·5	1·9	1·67	0·89	+0·78	+ 88
29. Mysore	3·5	5·6	2·16	3·57	—1·41	— 39
30. Malabar	4·5	8·5	3·05	7·04	—3·99	— 57
31. Madras, South-east	3·0	3·7	2·12	2·51	—0·39	— 16
32. Do., Deccan	1·9	2·8	1·02	1·60	—0·58	— 36
33. Do., Coast, North	3·6	3·1	2·38	2·01	+0·37	+ 18

TABLE 18.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	6·73	8·65	—1·92	—22
Assam	10·56	13·56	—3·00	—22
Bengal	5·11	8·09	—2·98	—37
Bihar and Orissa	1·49	2·46	—0·97	—39
United Provinces	0·77	0·66	+0·11	+17
Punjab	0·97	0·54	+0·43	+80
North-West Frontier Province	0·78	0·77	+0·01	+ 1
Sind	0·61	0·10	+0·51	+510
Rajputana	1·48	0·37	+1·11	+300
Bombay	0·91	0·90	+0·01	+ 1
Central India	0·86	0·28	+0·58	+207
Central Provinces	0·39	0·49	—0·10	— 20
Hyderabad	0·96	0·75	+0·21	+ 28
Mysore	2·16	3·57	—1·41	— 39
Madras	2·27	3·40	—1·13	— 33
Mean of India	2·33	2·82	—0·49	— 17

Snowfall.

I.—THE NORTH-WEST FRONTIER PROVINCE.

14. (*a*) *Miranshah* (*Tochi Valley*).—Some unusually late falls of snow occurred in the upper Tochi hills and Shawal, and temperature was much below normal throughout May.

(*b*) *Parachinar* (*Kurram*).—There was no snowfall, but temperature was low.

(*c*) *Kohat*.—No snow fell.

(*d*) *Drosh*.—No snow fell.

(*e*) *Khyber Agency*.—Unprecedentedly heavy snow was reported in Afghanistan for the time of the year, resulting in the temperature of the Khyber Agency being several degrees below normal.

(*f*) *Malakand*.—About an inch and a half of snow fell on the high hills of the Lowarai range on three days. Weather was exceptionally cool throughout the agency.

(*g*) *Abbottabad* (*Hazara*).—Between one inch and two feet of snow fell in the Kagan valley at altitudes of 11,000 to 17,000 feet. Weather was cool.

II.—KASHMIR.

(*a*) *Srinagar*.—Fresh snow was visible on the surrounding mountains on the 9th, 11th and 23rd. Weather was unusually cold due to heavy snow accumulations on mountains.

(*b*) *Sonamarg*.—Had 4½ feet of snow during the month.

(*c*) *Skardu*.—Snow fell on the surrounding mountains on 7 days, the total amount being roughly 2 feet on the higher ranges and 1 foot on the lower. The accumulations at the end of the month were about 6 feet on the higher mountains, 3 or 4 feet on the lower and about a foot on the low hills. The month's fall was above the average.

(*d*) *Dras*.—Snow fell on 9 days to a total depth of nearly 3 feet.

(*e*) *Kargil*.—3½ inches fell on the ground and 8 inches on the mountains on the 11th-12th.

(*f*) *Leh*.—The snowline was at about 13,000 feet and the passes to the northern regions remained closed for traffic even at the end of May.

III.—THE PUNJAB.

(*a*) *Chamba*.—Snow fell as low down as 8,000 feet on the 10th, 11th and 12th, and during the rest of the month there were occasional local falls above 12,000 feet. The accumulations were unusually heavy for the time of year; and none of the passes into Pangi had been crossed by the 22nd May, when the report was sent.

(*b*) *Kulu* (*Kangra*).—Snow fell intermittently during the fourth week of the month as low down as 8,000 or 9,000 feet. The accumulations on the 27th were, everywhere in the Kulu hills, much greater than usual, and the weather was very cold.

(*c*) *Kilba* (*Simla Hills*).—Snow fell down to 8,500 feet and at 9,000 feet accumulated to a depth of 3 inches. Snowfall at these heights so late in the season is considered very unusual. Only once before this snow is reported to have fallen after 15th May, when it is said to have descended to 6,000 feet. 18 inches of snow fell at 9,000 feet about

the 22nd May at Chini. The accumulations on the passes on the 25th of the month were as follows :—

TABLE 19.

Charang-Chitkul . .	15 feet	(not opened till the date of the report).
Rupan	10 „	„
Brua	10 „	„
Shatul	12 „	„
Harang	5 „	„

IV.—THE UNITED PROVINCES.

(a) *Garhwal.*—Snow fell about 3 feet deep on the higher northern hills, and reached down to 10,000 feet. Weather was cold.

(b) *Almora.*—Reports from Patwaris were as follows :—

Actual falls during the month.

TABLE 20.

Locality.	Depth.	Descent below perpetual snowline.
	Feet.	
Malla Danpur	3	3 or 4 miles.
Malla Johar	2½	5 miles.
Malla Darma	2½	4 „
Byans	3½	5 „
Chaudas	2¼	¼ mile.

TABLE 21.

Accumulations.

Name of pass or peak.	Depth of accumulation on the 16th May, 1920.
	Feet.
Nuwe pass	14
Lampia „	15
Lipulekh „	13
Binkaru „	7
Pindari peak	3
Kaphini „	3
Kuntela „	3
Pawalidwar	3
Milamdhura	1
Bagdwar	½

V.—THE EASTERN HIMALAYAS.

Yatung.—There was light snow during the month mixed with rain.

Summary.

15. Over practically the whole mountain area bordering northern India the month's fall as well as the accumulations about the end of the month were much above normal.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in May 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·725	29·611	·114	29·670	+·009	29·637	96·8	77·7	19·1	103·9	70·2	33·7	90·4	92·9	87·0	+1·3	74·2	79·7	78·0	77·3
	VI.—Punjab.																					
11	Lahore . .	702	29·001	28·914	·087	28·952	+·047	29·605	97·1	68·0	29·1	106·9	60·3	46·6	88·3	95·6	82·3	−6·6	59·6	68·2	69·8	65·9
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·340	28·240	·100	28·285	+·041	29·616	99·3	70·2	29·1	109·4	60·2	49·2	90·4	97·3	83·9	−7·7	58·9	65·3	66·3	63·5
	X.—Bombay.																					
25	Bombay . .	37	29·849	29·753	·096	29·800	+·023	29·777	91·5	80·9	10·6	92·8	79·0	13·8	86·4	88·0	85·1	+0·5	74·4	78·1	78·9	77·1
	XIV—Mysore.																					
29	Bangalore . .	3,021	26·926	26·807	·119	26·874	+·031	29·654	94·2	69·2	25·0	98·8	65·1	33·7	83·1	90·0	80·0	+1·5	65·3	69·8	69·1	68·0
	XV.—Madras.																					
30	Trivandrum . .	198	29·708	29·612	·096	29·665	+·020	29·791	87·1	78·1	9·0	89·5	74·9	14·6	84·4	85·6	81·5	+0·2		77·7	78·4	
31	Pudukkottai .	318	29·541	29·396	·145	29·469		29·708	100·7	79·1	21·6	107·2	70·1	37·1	91·1	97·8	89·9			76·3	77·2	
	Madras . .	22	29·780	29·675	·105	29·736	+·003	29·689	99·4	80·9	18·5	108·7	74·2	34·5	94·0	90·0	89·01	+0·3	76·2	79·5	79·8	78·
	Kashmir.																					
13	Srinagar . .	5,204	24·838	24·778	·060	24·808	−·006	24·779	68·8	46·7	22·1	79·5	37·3	42·2	60·2	66·5	57·7	−6·2	45·4	53·4	54·9	51·
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·583	25·528	·055	25·551	+·058	25·506	85·7	56·8	28·9	94·2	49·8	44·4	76·3	80·4	71·4	+0·6	53·7	62·5	63·1	59
	Kodaikanal . .	7,688	22·850	22·791	·059	22·821		22·756	70·0	54·5	15·5	75·5	50·2	25·3	66·7	62·8	52·2		50·1	57·5	57·9	55
	Extra India.																					
	Seychelles . .	15	29·967	29·889	·078	29·928	−·013†	29·929	84·4	79·2	5·2	85·9	76·2	9·7	82·4	83·3	80·4	+0·9‡	73·8	76·9	77·4	7
	Mauritius . .	181				29·909	+·015	29·978	78·3	66·0	12·3	79·9	61·5	18·4			71·4	−0·7				

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.

A.

at 13 stations in India, etc., in May, 1920.

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.	
·802	·868	·760	·819	−·064	84	61	51	68	−7	2·7	4·8	3·7	−0·6	1	0	1	3	7	12	29	4	5	S 30° W	S 9° W	61	67	118	123	2·61	0·89	Calcutta.	5
																															VI.—Punjab.	
·403	·424	·385	·415	−·039	59	34	25	40	+4	1·6	2·3	1·9	−0·3	8	7	18	2	7	2	1	6	11	N 15° E	N 12° E	32	18	50	56	0·65	0·30	Lahore.	11
																															IX.—Rajputana.	
·365	·317	·266	·323	−·125	49	24	17	32	−3	2·7	3·6	3·1	+0·8	2	3	0	3	3	7	14	20	10	S 75° W	N 72° W	53	48	91	110	1·13	0·56	Jaipur.	18
																															X.—Bombay.	
·759	·841	·869	·836	−·053	72	67	66	71	−5	2·8	1·8	2·3	−0·3	0	0	0	1	0	2	9	36	14	N 88° W	N 83° W	82	71	141	177	0	0	Bombay.	25
																															XIV.—Mysore.	
·574	·573	·467	·554	−·051	81	51	35	58	−5	4·0	6·2	5·1		1	7	1	2	1	1	3	24	22	N 63° W	S 81° W	69	66	150	110	2·39	1·40	Bangalore.	29
																															XV.—Madras.	
	·859	·873				73	72			6·7	5·6	6·1	0	0	3	0	0	0	0	1	27	31	N 64° W	N 63° W	89	78	128	124	1·67	0·66	Trivandrum.	30
	·700	·658				9	39			2·6	4·8	3·7		20	3	0	1	3	11	6	8	10	S 66° W		29		77		4·03	2·47	Pudukkottai.	31
·839	·805	·880	·856	−·040	80	52	63	67	−3	3·3	3·9	3·6	−0·1	0	1	1	5	25	9	8	11	2	S 10° E	S 9° E	99	66	98	159	1·25	0·84	Madras.	
																															Kashmir.	
·291	·336	·301	·310	−·132	90	65	49	68	−10	5·0	6·0	5·5	+1·5	11	7	6	1	10	4	1	7	15	N 30° W	N 30° E	19	6	59	75	2·75	1·26	Srinagar.	13
																																31
																															Hill stations, excluding Kashmir and Baluchistan.	+0·51
·377	·409	·383	·384	−·106	81	46	39	55	−13	4·5	6·1	5·3	+0·1	0	3	0	31	0	0	0	28	0	N 45° E	S 89° W	6	39	17	31	2·31	0·53	Katmandu.	+1·11
																																+·01
·317	·380	·429	·375		75	59	76	70		5·1	7·6	6·3		1	19	18	5	8	4	0	2	5	N 35° E		50		152		3·68	1·59	Kodaikanal.	+0·58
																																−0·10
																															Extra India.	+0·21
·765	·852	·864	·840	−·006	77	77	75	78	−2	6·1	6·5	6·3	+1·2†	3	1	0	0	51	4	0	0	3	S 43° E	S 43° E	81	59	167	120	6·66	1·32	Seychelles.	−1·41
																																−1·13
			·630	+·009				81	+3			5·2	+0·6										S 70° E	S 63° E			126	130	4·55	2·05	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in May, 1920.

(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 2,500 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	−·014	92·1	−0·2	75·8	−0·3	83·9	−0·3	16·2	+0·4	+ 6	79	− 2	·835	−·028	6·0	0	6·73	8·65	−1·92
Assam	−·010	86·5	−0·6	70·6	−1·2	78·6	−0·9	15·9	+0·4	+ 2	85	− 2	·772	−·033	5·0	−1·3	10·56	13·56	−3·00
Bengal	−·003	93·2	+0·8	75·6	−0·4	84·4	+0·2	17·6	−0·3	− 7	78	− 3	·849	−·046	4·1	−0·8	5·11	8·09	−2·98
Bihar and Orissa	+·016	100·1	−0·3	76·4	−1·5	88·3	−0·9	23·7	−0·3	−12	59	− 4	·678	−·077	3·0	+0·2	1·49	2·46	−0·97
United Provinces of Agra and Oudh	+·033	101·4	−3·5	74·2	−4·4	87·8	−4·0	27·3	−0·3	+ 1	41	− 5	·480	−·126	1·7	+0·2	0·77	0·66	+0·11
Punjab	+·046	97·0	−7·5	68·7	−7·0	82·9	−7·3	28·2	+0·2	+ 5	40	+ 1	·393	−·094	2·1	+0·5	0·97	0·54	+0·43
North-West Frontier Province	+·042	96·3	−4·7	67·5	−4·8	81·9	−4·7	28·8	−0·7	+ 4	49	+ 3	·429	−·115	1·7	+0·1	0·78	0·77	+0·01
Sind	+·040	100·8	−1·9	77·4	−0·8	89·1	−1·4	23·3	−3·0	−15	55	− 4	·644	−·083	1·4	−0·2	0·61	0·10	+0·51
Rajputana	+·032	100·7	−5·9	74·3	−7·1	87·5	−6·5	26·4	−0·4	−27	36	− 3	·384	−·147	1·9	+0·9	1·48	0·37	+1·11
Bombay	+·009	97·1	−0·9	76·1	−0·7	86·6	0·2	2 ·0	−1·9	− 7	66	+ 1	·737	−·030	3·2	+0·3	0·91	0·90	+0·01
Central India	+·024	100·1	−4·7	73·0	−5·3	86·6	−5·1	27·1	−1·1	−17	43	+ 2	·496	−·048	1·5	−0·1	0·86	0·28	+0·58
Central Provinces	+·022	103·3	−3·5	76·4	−3·6	89·8	−3·5	26·9	+0·1	−13	36	− 1	·439	−·083	2·3	+0·6	0·39	0·49	−0·10
Hyderabad	+·012	104·6	+0·1	78·3	−1·2	91·5	−0·5	26·3	−0·2	+ 8	46	− 3	·566	−·017	2·6	−0·1	0·96	0·75	+0·21
Mysore	+·009	93·0	+1·5	69·0	−0·3	80·9	+0·5	24·1	+0·9	+ 5	70	− 4	·613	−·053	4·2	−0·9	2·16	3·57	−1·41
Madras	+·006	97·2	+0·3	79·7	+0·4	88·4	+0·4	17·5	0	+ 7	69	− 1	·841	−·025	4·4	−0·2	2·27	3·40	−1·13

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·756		29·833	29·842	8th	29·700	5th	81·5	77·1	87·0		76·7		81·8		10·3	92·8	1st	73·4	14th
	Mergui	66	29·816	−·003	29·812	29·880	9th	29·745	5th	80·7	78·1	89·0	0	75·6	+1·3	82·3	+0·7	13·4	93·3	1st	74·0	27th
	Tavoy	19	29·854	−·017	29·805	29·938	9th	29·757	5th	80·7	77·9	89·4	+0·9	76·0	+0·6	82·7	+0·7	13·4	97·7	1st	72·8	22nd
	Moulmein	94	29·778	−·005	29·793	29·872	9th	29·674	5th	79·3	76·3	88·6	−0·6	75·7	−0·1	82·2	−0·3	12·9	96·0	1st	73·3	30th
	Rangoon	18	29·819	−·005	29·775	29·930	9th	29·673	5th	81·8	77·8	91·5	−0·2	77·2	−0·1	84·4	−0·1	14·3	96·7	1st	71·2	6th
	Bassein	27	29·810	−·001	29·773	29·912	9th	29·635	5th	83·3	79·2	92·4	+0·8	76·2	−1·1	84·3	−0·1	16·2	102·2	1st	64·9	31st
	Diamond Island	41	29·782	−·016	29·758	29·892	9th	29·621	4th	85·4	78·7	89·3	+0·8	81·3	+2·4	85·3	+1·6	8·0	91·6	1st	73·8	18th
	Toungoo	164	29·670	+·002	29·771	29·773	9th	29·509	5th	82·4	78·0	93·5	−2·3?	75·7	−0·9	84·6	−1·6?	17·8	101·3	1st & 2nd	70·2	6th
	Kyaukpyu	18	29·775		29·732	29·873	9th	29·497	5th	83·1	78·0	90·1		79·3		84·7		10·8	95·5	3rd	74·6	6th & 11th.
	Akyab	20	29·767	−·023	29·727	29·854	9th	29·518	5th	82·7	77·9	90·1	−0·7	76·2	−1·9	83·1	−1·3	13·9	95·4	3rd	66·2	10th
3	Minbu	*165*	29·610	−·022	29·717	29·711	9th	29·414	5th	83·1	75·9	98·6	−0·1	78·0	−2·6	88·3	−0·3	20·6	107·1	2nd	56·7	6th
	Yamethin	644	29·149	−·012	29·739	29·251	9th	28·936	5th	82·1	76·1	96·0	−0·6	76·3	−0·3	86·1	−0·5	19·7	103·4	2nd	69·4	6th
	Mandalay	250	29·531	−·015	29·726	29·590	9th	29·375	5th	85·2	75·6	97·7	−1·9	77·9	−1·2	87·8	−1·5	19·8	107·5	2nd & 3rd.	69·2	5th
	Monywa	*280*	29·510	−·010	29·736	29·567	9th	29·391	5th	84·5	75·3	99·9	−0·2	78·3	−0·5	89·1	−0·3	21·6	108·6	1st	68·7	5th
	Lashio	*2,830*	27·027	−·021	26·973	27·085	15th	26·917	5th	73·4	67·9	86·1	−1·5	65·9	−0·9	76·0	−1·2	20·2	92·7	18th	61·4	12th
	Bhamo	*361*	29·401	−·013	29·716	29·463	13th	29·304	5th	77·5	74·9	94·0	+0·3	72·2	−0·1	83·1	+0·1	21·8	100·8	31st	65·1	12th
	Myitkyina	458	29·285	−·035	29·709	29·370	14th	29·193	5th & 7th.	74·5	69·5	91·7	−0·2	70·4	−2·1	81·0	−1·1	21·3	99·4	30th	65·0	10th
	II.—Assam.																					
4	Dibrugarh	353	29·433	−·022	29·751	29·561	21st	29·242	5th	74·5	73·4	83·8	−0·6	69·5	−1·0	76·7	−0·8	14·3	92·3	30th	64·5	3rd
	Sibsagar	333	29·447	−·022	29·743	29·563	21st	29·263	7th	73·7	71·7	88·1	−2·4?	71·2	−0·3	77·2	−1·3?	11·9	91·9	31st	65·8	3rd
	Tezpur	252	29·541	−·004	29·753	29·649	21st	29·354	7th	75·1	71·5	85·8	−0·8	70·3	−1·9	78·1	−1·3	15·5	94·0	31st	65·8	11th
	Gauhati	196	29·596	−·009	29·749	29·698	22nd	29·405	7th	77·3	73·0	87·5	−0·3	70·9	−1·0	79·2	−0·7	16·6	95·5	31st	65·7	21st
	Dhubri	115	29·647	−·008	29·717	29·765	22nd	29·447	7th	76·1	72·6	85·2	−1·1	72·3	−0·6	78·8	−0·9	12·9	94·8	31st	66·6	11th
	Silchar	104	29·705	+·005	29·761	29·789	21st	29·504	5th	77·8	73·9	88·5	−0·3	71·1	−1·5	79·7	−0·9	17·4	95·7	31st	64·5	14th
	Srimangal	66	29·724		29·740	29·806	14th & 17th.	29·521	7th	79·7	75·0	91·5	+0·2	68·9	−3·3?	80·2	−1·5?	22·6	99·5	31st	63·3	21st
	III.—Bengal.																					
5	Cox's Bazar	36	29·754		29·735	29·851	21st	29·513	5th	81·4	77·6	88·8		74·4		81·6		14·4	92·5	3rd & 4th	65·7	11th
	Chittagong	87	29·696	−·007	29·729	29·796	11th	29·468	5th	80·3	76·7	90·1	+1·3	74·4	−1·0	82·3	+0·1	15·7	94·7	31st	66·2	11th
	Noakhali	43	29·743	+·010	29·733	29·857	11th	29·558	5th	82·0	77·8	89·3	0	77·0	+1·3	83·1	+0·7	12·3	95·8	31st	67·2	11th
	Barisal	12	29·757	+·007	29·716	29·898	11th	29·577	6th	83·0	78·8	91·7	0	76·8	+0·1	84·2	+0·1	14·9	96·6	31st	67·6	11th & 19th.
	Narayanganj	26	29·732	−·007	29·707	29·825	16th	29·516	6th	82·3	77·1	90·7	−0·4	75·8	0	83·2	−0·2	14·9	96·1	31st	66·6	11th

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

B.

stations in India, etc., in May, 1920—*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 May 1920.	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
																															I.—Burma.
6	0	3	4	4	3	5	5	1	S 3° W		5·6			20		81		·865		8·4		17	−1·8	18·40	16·36	+2·04	18·40	16·36	+ 2·04	4·00	Victoria Point.
8	0	2	6	7	6	2	0	0	S 45° E	S 81° W	3·7	1·4	+2·3	49	+26	88	0	·924	+·017	5·4	+0·1	12	−5·6	6·76	17·49	−10·73	6·76	17·49	−10·73	1·38	Mergui.
18	0	1	0	5	6	1	0	0	S 21° E	S 61° W	2·0	1·2	+0·8	30	+21	88	0	·904	+·012	7·4	+2·1	19	+0·5	14·86	23·78	−8·92	14·86	23·78	− 8·92	3·15	Tavoy.
11	0	6	10	2	1	0	1	0	N 83° E	S 47° E	2·8	2·5	+0·3	49	+13	87	0	·867	−·016	7·6	+0·3	20	+2·2	12·98	20·69	−7·71	12·98	20·69	− 7·71	2·40	Moulmein.
1	0	2	2	2	6	10	5	3	S 40° W	S 39° W	4·3	3·4	+0·9	46	− 8	84	− 2	·909	−·004	7·4	+0·6	9	−4·7	14·52	12·21	+2·31	14·52	12·21	+ 2·31	4·19	Rangoon.
13	1	0	3	1	3	1	3	6	N 79° W	S 51° W	3·5	3·5	0	13	−16	83	− 2	·946	+·015	5·5	0	9	−2·4	7·12	9·97	−2·85	7·12	9·97	− 2·85	1·86	Bassein.
1	0	0	0	2	2	4	13	9	N 90° W	S 64° W	8·7	5·7	+3·0	67	+27	73	− 6	·887	−·026	6·0	−0·6	8	−2·8	4·81	10·78	−5·97	4·81	10·78	− 5·97	1·08	Diamond Island.
4	0	0	0	13	13	1	0	0	S 20° E	S 28° E	3·3	3·4	−0·1	82	+14	82	+ 1	·882	−·045	6·3	−0·2	11	+0·7	6·39	7·44	−1·05	6·39	7·44	− 1·05	1·03	Toungoo.
22	0	1	4	0	0	0	2	2	N 32° E		1·8			7		80		·892		6·4		7	−5·5	10·16	15·03	−4·87	10·16	15·03	− 4·87	4·66	Kyaukpyu.
1	4	7	4	5	2	2	0	6	N 47° E	N 81° E	3·9	2·6	+1·3	30	−20	80	− 4	·889	−·067	5·2	−0·9	9	−1·6	8·98	13·21	−4·23	8·98	13·21	− 4·23	5·56	Akyab.
1	1	0	1	22	2	1	0	3	S 42° E	S 38° E	3·9	7·5	−3·6	69	− 5	71	− 1	·796	−·025	4·6	+0·3	5	−2·0	8·42	5·36	+3·06	8·42	5·36	+ 3·06	4·50	Minbu.
										S 28° E		5·9				76	+ 1	·821	−·003	3·6	−0·6	4	−4·7	5·70	5·93	−0·23	5·70	5·93	−0·23	2·57	Yamethin.
										S 4° E		5·4				64	− 5	·752	−·070	5·1	+1·2	6	−1·9	10·35	5·85	+4·50	10·35	5·85	+4·50	4·17	Mandalay.
5	2	1	3	11	8	0	0	1	S 41° E		2·4			53		65	− 4	·755	−·042	5·5	+1·1	6	−1·0	2·45	5·43	−2·98	2·45	5·43	−2·98	0·68	Monywa.
16	0	0	2	1	2	5	4	1	S 45° W		2·6			27		75	− 6	·604	−·053	4·5	−2·1	9	−2·9	5·84	6·69	−0·85	5·84	6·69	−0·85	1·33	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 53° W	1·7	2·3	−0·6			88	+ 8?	·835	+·058?	7·6	+2·0?	8	−2·2	3·86	6·29	−2·43	3·86	6·29	−2·43	1·36	Bhamo.
24	2	3	2	0	0	0	0	0	N 45° E		2·9			20		78	0	·665	−·084	5·3	−0·9	6	−3·4	2·26	6·47	−4·21	2·26	6·47	−4·21	0·68	Myitkyina.
																															II.—Assam.
7	0	1	4	5	0	0	0	0	S 71° E		0·4			27		95	+ 6	·813	+·048	6·4	−0·1	15	−0·4	8·82	10·89	−2·07	8·82	10·89	− 2·07	1·47	Dibrugarh.
10	5	8	2	2	3	1	0	0	N 56° E	N 60° E	1·3	2·1	−0·8	30	− 3	90	− 1	·752	−·059	6·8	−1·1	14	−1·8	11·46	12·11	−0·65	11·46	12·11	− 0·65	1·90	Sibsagar.
9	0	9	11	1	0	1	0	0	N 74° E		3·0			56		83	− 4	·728	−·050	5·0	−1·2	15	−0·4	6·97	9·18	−2·21	6·97	9·18	− 2·21	0·86	Tezpur.
2	0	5	14	2	0	0	0	0	N 85° E		1·3			62		81	− 5	·758	−·031	3·9	−2·7	11	−3·2	6·73	10·06	−3·33	6·73	10·06	− 3·33	1·26	Gauhati.
2	0	10	12	4	2	1	0	0	N 86° E	N 67° E	7·1	5·2	+1·9	69	+15	84	− 3	·759	−·042	5·4	−0·8	10	−5·5	12·74	15·28	−2·54	12·74	15·28	− 2·54	2·86	Dhubri.
7	0	2	1	0	1	0	0	0	N 80° E	N 84° E	2·3	2·3	0	8	− 5	83	− 2	·785	−·044	4·5	−2·0	14	−2·4	12·86	16·22	−3·36	12·86	16·22	− 3·36	2·60	Silchar.
																80	− 5	·811	−·050	2·8		14	−1·3	18·50	16·89	+1·61	18·50	16·89	+ 1·61	5·20	Srimangal.
																															III.—Bengal.
	1	2	4	11	4	0	0	0	S 54° E		3·7			53		84		·898		4·7		11	−0·6	9·31	13·24	−3·93	9·31	13·24	− 3·93	3·92	Cox's Bazar.
10	0	5	3	7	4	1	1	0	S 58° E	S 50° E	3·7	4·7	−1·0	40	−25	84	+ 3	·876	−·014	4·8	−0·6	8	−3·1	7·35	9·93	−2·58	7·35	9·93	− 2·58	2·84	Chittagong.
4	0	3	3	12	2	5	2	0	S 34° E		3·8			48		82	− 1	·898	−·020	4·3	0	7	−4·0	8·77	11·97	−3·20	8·77	11·97	− 3·20	2·76	Noakhali.
8	0	1	2	4	6	7	2	1	S 9° W	S 9° E	3·3	3·7	−0·4	40	−10	82	0	·927	−·031	3·5	−1·9	6	−4·0	6·89	9·39	−2·50	6·89	9·39	− 2·50	3·53	Barisal.
	1	1	5	6	7	3	2	2	S 24° E	S 28° E	4·1*	4·9	−0·8	37	−17	78	− 6	·867	−·053	4·1	−1·9	7	−4·3	9·91	9·61	+0·30	9·91	9·61	+ 0·30	3·80	Narayanganj.

* Mean of 30 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

Number of sub-division.	Station.	Height of barometer 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 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	29·698	−·011	29·713	29·783	16th	29·489	7th	80·2	75·3	89·7	+0·8	74·3	+0·2	82·0	+0·5	15·4	96·1	31st	67·1	11th
	Bogra	75	29·669	−·011	29·695	29·781	22nd	29·449	7th	80·8	76·4	93·1	+0·7	73·4	−0·8	83·2	−0·1	19·7	106·4	9th	63·0	22nd
	Dinajpur	123	29·612	−·011	29·690	29·728	22nd	29·393	6th	79·1	73·5	93·1	+1·2	72·8	−0·9	82·9	+0·1	20·3	102·3	31st	67·0	11th
	Jalpaiguri	283	29·486	+·003	29·728	29·589	21st	29·297	7th	76·7	72·4	90·2	+1·3	70·9	−1·5	80·6	−0·1	19·3	97·4	30th & 31st.	65·1	11th
	Saugor Island	10	29·729	+·005	29·684	29·825	16th	29·553	6th	85·5	79·8	90·1	−1·7	79·8	−1·1	84·9	−1·4	10·3	94·2	31st	71·5	22nd
	Midnapore	149	29·574	+·003	29·670	29·698	17th	29·365	6th	85·3	76·3	100·4	+0·5	77·9	−0·4	89·2	+0·1	22·5	112·4	7th	73·1	17th
	Calcutta	21	29·713	+·002	29·681	29·853	15th	29·503	6th	83·7	78·2	93·6	+2·1	78·0	+0·5	87·3	+1·3	18·6	103·9	8th	70·2	14th
	Jessore	30	29·709	−·002	29·686	29·820	16th & 17th.	29·493	6th	83·0	77·6	96·4	+1·9	76·1	−0·5	88·3	+0·7	20·3	102·9	31st	66·5	11th
	Burdwan	99	29·603	−·020	29·649	29·740	15th	29·362	6 h	81·1	75·4	98·7	+0·9	76·1	−1·4	87·4	−0·3	22·6	109·4	7th	68·0	15th
	Berhampore	67	29·665	+·003	29·681	29·799	15th	29·419	6th	83·7	76·2	98·9	+2·3	76·3	−0·1	87·6	+1·1	22·6	108·6	7th & 9th.	65·7	11th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·675	0	29·670	29·804	16th	29·474	6th	82·6	77·8	96·4	−0·8	76·7	−1·9	86·5	−1·3	19·7	108·2	7th	71·4	25th
	Hukitala (False Point)	29	29·730	+·020	29·700	29·848	18th	29·558	7th													
	Cuttack	80	29·669	+·019	29·689	29·797	18th	29·505	7th	84·9	79·4	101·2	−0·3	79·0	−1·0	90·1	−0·7	22·2	109·7	8th	72·4	16th & 22nd.
	Puri	24	29·741	+·024	29·706	29·863	18th	29·568	7th	84·9	80·9	90·2	+0·3	81·6	+0·7	85·9	+0·5	8·6	92·5	24th	73·9	13th
	Angul	455	29·282	+·017	29·677	29·426	15th	29·098	7th	84·9	76·9	103·3	−1·1	78·0	−0·5	90·6	−0·8	25·3	111·8	7th	71·4	19th
	Sambalpur	486	29·236	+·006	29·663	29·372	15th	29·084	7th	87·8	74·3	104·8	−1·8	77·4	−3·8	91·1	−2·8	27·4	112·2	7th & 10th.	71·7	8th
7	Chaibasa	733	28·983	+·010	29·660	29·119	15th	28·769	6th	83·8	73·8	102·9	−1·0	77·5	−0·4	90·2	−0·7	25·4	112·1	7th	70·7	17th & 18th.
	Ranchi	2,128	27·620	+·013	29·632	27·760	15th	27·415	6th	82·7	66·2	96·7	−2·5	73·6	−1·9	85·1	−2·2	23·1	105·5	7th	66·8	18th
	Purulia	816	28·907	+·014	29·664	29·046	15th	28·708	6th	84·6*	72·5†	102·9	+0·8	76·5	−0·8	89·7	0	26·4	113·7	7th	70·7	17th
	Daltonganj	730	28·989	+·025	29·664	29·144	15th	28·783	6th	81·5	66·9	104·0	−2·9	73·8	−5·4	88·9	−4·1	30·2	112·1	7th	65·4	4th
8	Purnea	124	29·603	−·010	29·682	29·740	15th	29·386	6th	80·6	73·7	97·4	+2·4	73·1	−1·1	85·2	+0·7	24·3	107·1	9th	67·0	10th
	Monghyr	155	29·558		29·665	29·722	15th	29·337	6th	83·1	72·7	100·5		75·6		89·1		24·9	107·4	9th	67·9	11th
	Darbhanga	165	29·563	+·012	29·682	29·735	15th	29·341	6th	82·4	71·6	99·3	+3·5	74·4	−1·6	86·9	+0·9	24·9	106·4	9th	68·5	11th
	Pusa	188	29·527		29·668	29·669	15th	29·306	6th	84·0	72·4	101·7		74·1		87·9		27·6	110·3	9th	66·5	19th
	Patna	183	29·541	+·029	29·678	29·685	15th	29·328	7th	85·2	72·3	99·4	−0·8	76·7	−1·0	88·0	−0·9	22·7	106·8	9th	69·9	11th
	Buxar	239	29·469	+·026	29·663	29·621	15th	29·239	6th	83·0	68·9	97·6	−5·4†	75·9	−3·3	86·7	−4·3†	21·7	106·3	21st	68·9	11th
	Gaya	372	29·340	+·030	29·661	29·493	15th	29·109	6th	86·5	68·5	103·3	−1·4	79·0	−0·7	91·1	−1·1	24·3	112·0	7th	74·2	16th
	Naya Dumka	489	29·232	+·010	29·668	29·373	15th	28·993	6th	85·6	73·8	100·9	+2·1	76·2	−0·9	88·5	+0·6	24·7	110·8	9th	65·6	11th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·458	+·021	29·672	29·635	15th	29·234	6th	83·5	69·5	101·2	+0·3	74·3*	−2·6	87·7*	−1·1	26·9	108·1	7th	66·3	16th
	Benares	267	29·451	+·038	29·668	29·630	15th	29·222	6th	86·7	69·3	102·2	−3·1	75·3	−3·5	88·7	−3·3	26·9	111·2	7th	67·1	4th
	Allahabad	309	29·427	+·059	29·688	29·581	15th	29·192	6th	86·7	69·0	103·8	−3·1	76·7	−2·9	90·2	−3·0	27·1	112·3	10th	68·8	17th & 26th.
	Cawnpore	416	29·309	+·055	29·678	29·454	17th	29·101	6th	84·6	69·2	101·4	−4·4	75·8	−3·3	88·6	−3·9	25·6	111·2	10th	66·1	26th

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

* Mean of 30 days.
† „ „ 26 „

—*continued.*

tations in India, etc., in May, 1920—*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 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 1920.	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.*
0	4	10	7	2	0	0	0		S 77° E	S 81° E	2·4	3·0	−0·6	59	− 9	79	− 5	·818	−·021	6·1	−0·1	12	−1·7	10·88	13·41	−2·53	10·88	13·41	−2·53	3·01	Mymensingh.
0	1	10	0	4	1	0	0		S 68° E	S 72° E	1·5	3·2	−1·7	37	−23	81	0	·850	+·019	4·3	0	6	−4·3	5·49	8·80	−3·31	5·49	8·80	−3·31	2·24	Bogra.
0	5	18	4	1	0	1	0		S 89° E	N 88° E	4·1	3·4	+0·7	75	+ 3	76	− 3	·754	−·045	3·1	−2·8?	5	−4·2	3·69	7·87	−4·18	3·69	7·87	−4·18	1·42	Dinajpur.
2	5	8	4	2	0	0	0		N 87° E	N 88° E	1·9			46	+14	80	− 3	·743	−·047	3·6	−0·7	11	−1·7	4·02	11·31	−7·29	4·02	11·31	−7·29	0·75	Jalpaiguri.
2	0	1	1	10	16	1	0		S 28° W	S 5° W	10·9	7·9	+3·0	76	+ 1	77	− 4	·940	−·060	4·9	−1·3	5	−0·9	3·83	4·52	−0·69	3·83	4·52	−0·69	1·34	Saugor Island.
2	1	2	5	11	2	2	2		S 5° E		4·0			39		65	− 9	·786	−·099	3·3	+1·0	3	−4·4	4·05	5·29	−1·24	4·05	5·29	−1·24	2·94	Midnapore.
0	2	2	3	7	13	3	0		S 21° W	S 6° W	4·9	5·1	−0·2	62	− 6	78	− 1	·801	−·046	4·0	−0·7	6	−1·3	2·61	5·79	−3·18	2·61	5·79	−3·18	0·89	Calcutta.
0	0	0	1	10	6	0	0		S 13° W	S 16° E	2·1	3·4	−1·3	49	− 5	80	− 3	·879	−·073	4·2	−1·3	4	−5·7	3·87	8·40	−4·53	3·87	8·40	−4·53	2·27	Jessore.
2	1	2	3	3	11	2	3		S 41° W	S 11° W	2·1	3·4	−1·3	33	−21	76	− 1	·805	−·083	2·9	−2·3	3	−4·3	3·35	6·37	−3·02	3·35	6·37	−3·02	1·90	Burdwan.
0	1	3	3	13	5	1	0		S 4° E	S 37° E	3·8	3·7	+0·1	59	+ 9	70	−11	·805	−·075	4·1	−1·2	4	−3·6	4·71	5·55	−0·84	4·71	5·55	−0·84	2·27	Berhampore.
																															IV.—Bihar and Orissa.
0	0	0	0	10	12	0	1		S 28° W	S 29° W	3·9	6·4	−2·5	66	− 9	80	+ 5	·888	−·034	4·2	+0·9	5	−1·3	3·96	4·85	−0·89	3·96	4·85	−0·89	2·12	Balasore.
0	1	0	5	6	12	2	3		S 29° W	S 27° W	11·1	10·0	+1·1	56	−19					4·7	−1·4	6	+1·7	4·05	4·42	−0·37	4·05	4·42	−0·37	1·45	Hukitala (False Point).
0	0	2	1	0	14	8	1		S 58° W	S 46° W	3·1	3·7	−0·6	62	+22	77	+ 4	·927	+·016	3·9	−0·6	6	+0·3	2·22	4·08	−1·86	2·22	4·08	−1·86	0·83	Cuttack.
0	1	1	1	7	14	3	0		S 33° W		13·6			65		83	− 2	·997	−·015	5·0	+0·7	3	−0·2	1·42	2·76	−1·34	1·42	2·76	−1·34	0·79	Puri.
1	5	3	2	2	0	0	2		N 67° E		4·9			23		68	+ 1	·822	−·003	3·4	+1·4	4	−0·7	0·98	2·07	−1·09	0·98	2·07	−1·09	0·49	Angul.
1	9	0	2	2	10	3	4		S 87° W	S 7° E	2·8	3·1	−0·3	16	−26	51	+ 1	·651	−·055	2·7	−0·2	1	−1·5	0·62	1·32	−0·70	0·62	1·32	−0·70	0·45	Sambalpur.
0	0	0	0	1	13	0	1		S 46° W	S 58° W	2·4	2·0	+0·4	46	− 1	62	− 2	·703	−·046	3·6	+1·3	6	+0·5	3·14	3·26	−0·12	3·14	3·26	−0·12	0·81	Chaibassa.
1	0	0	2	3	5	9	6		S 80° W	S 43° W	3·9	5·7	−1·8	49	+ 2	42	− 9	·443	−·137	3·4	+1·1	4	−0·7	1·71	2·33	−0·62	1·71	2·33	−0·62	0·62	Ranchi.
0	2	0	6	1	5	4	1		S 23° W		1·5			26		50*	− 7	·654*	−·092	2·9	+0·5	4	−1·3	1·15	2·96	−1·81	1·15	2·96	−1·81	0·46	Purulia.
1	0	2	3	0	1	1	2		S 67° W		4·0			6		44	− 4	·469	−·145	1·4	−0·1	1	−0·3	0·52	0·57	−0·05	0·52	0·57	−0·05	0·31	Daltonganj.
1	2	19	3	1	1	0	3		N 88° E	N 82° E	3·7	3·3	+0·4	66	− 9	71	− 6	·740	−·071	4·2	+0·5	5	−0·7	3·08	4·45	−1·37	3·08	4·45	−1·37	1·[illegible]2	Purnea.
0	1	10	5	1	2	3	1		S 61° E		2·5			32		61		·668		2·1		2	−1·4	2·16	1·85	+0·31	2·16	1·85	+0·31	1·37	Monghyr.
0	0	14	2	0	0	1	0		S 84° E	S 79° E	4·7	4·5	+0·2	46	−30	58	−14	·633	−·162	2·4	+0·1	2	−2·1	0·57	2·93	−2·36	0·57	2·93	−2·36	0·34	Darbhanga.
3	1	16	1	0	0	4	6		N 52° E		4·0			36		56		·637		2·3		1	−2·3	0·40	1·92	−1·52	0·40	1·92	−1·52	0·33	Pusa.
1	1	17	0	0	1	10	1		N 75° E	N 87° E	4·6	4·2	+0·4	23	−45	53	−11	·624	−·128	2·1	+0·1	0	−3·0	0·03	1·65	−1·62	0·03	1·65	−1·62	0·03	Patna.
1	2	9	2	1	5	8	3		S 63° W		4·7			6		47	− 5	·519	−·117	2·2	+0·4	3	+1·5	1·14	0·68	+0·46	1·14	0·68	+0·46	0·80	Buxar.
2	5	2	1	1	8	8	1		S 82° W	S 78° W	3·2	3·9	−0·7	27	− 1	39	−19?	·465	−·307?	1·1	+1·4	2	+0·2	0·54	1·07	−0·53	0·54	1·07	−0·53	0·41	Gaya.
0	0	0	1	2	0	0	1		S		2·0			6		57	−10	·679	−·087	2·2	−0·8	5	0	4·44	3·48	+0·96	4·44	3·48	+0·96	2·05	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
0	22	0	0	0	0	5	0		N 34° E	N 76° E	3·3	2·6	+0·7	59	+16	47	−16	·536	−·192	0·7	−1·3	1	−1·8	0·64	1·50	−0·86	0·64	1·50	−0·86	0·44	Gorakhpur.
1	1	3	4	0	4	8	6		N 88° W	N 72° E	3·2	3·7	−0·5	27	+15	40	−12	·486	−·187	1·7	+0·1	1	−0·1	0·72	0·55	+0·17	0·72	0·55	+0·17	0·68	Benares.
1	4	6	1	0	2	11	2		N 54° W	N 2° E	3·5	5·0	−1·5	17	+ 8	39	− 3	·474	−·099	1·7	0	1	+0·1	0·34	0·31	+0·03	0·34	0·31	+0·03	0·31	Allahabad.
4	3	1	5	2	3	8	4		N 79° W	S 56° W	3·1	3·6	−0·5	20	+ 5	45	+ 6	·510	−·083	1·4	+0·2	2	+1·0	1·05	0·37	+0·68	1·05	0·37	+0·68	0·80	Cawnpore.

* Mean of 26 days.

Table

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

Number of sub-divisions.	Station.	Height of bar-eistern 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 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	29·336	+·027	29·657	29·471	17th	29·144	6th & 7th, 6th	86·7	66·6	102·3	−2·8	74·5	−3·1	88·4	−2·9	27·8	112·5	10th	67·0	26th
	Bahraich	407	29·294	+·017	29·657	29·414	16th	29·068	6th	83·0	66·0	99·6	−3·0	72·5	−4·5	86·1	−3·7	27·1	110·4	9th	66·3	16th & 18th,
10	Jhansi	824	28·912	+·024	29·685	29·058	18th	28·743	11th	85·1	71·4	102·6	−5·8	76·0	−8·4	89·3	−7·1	26·6	111·9	6th	67·6	26th
	Agra	556	29·157	+·033	29·663	29·317	17th	28·972	6th	87·7	68·1	102·0	−4·7	75·9	−5·6	89·1	−5·1	26·1	111·2	5th, 6th & 10th.	69·2	25th
	Mainpuri	516	29·191	+·035	29·660	29·355	17th	29·003	6th	84·5	67·6	102·3	−4·9	73·1	−5·6	87·7	−5·3	29·2	112·7	10th	66·6	28th
	Bareilly	568	29·125	+·023	29·649	29·311	16th	28·908	6th	84·3	70·7	100·8	−2·3	72·9	−3·5	86·8	−2·9	27·9	109·4	9th	65·5	18th
	Roorkee	899	28·804	+·032	29·663	28·979	16th	28·535	6th	81·2	63·6	97·6	−4·9	68·7	−5·5	83·2	−5·2	28·9	106·4	9th	63·4	18th
	VI.—Punjab.																					
11	Delhi	718	28·995	+·042	29·677	29·155	17th	28·801	6th	79·9	64·4	97·0	−7·5	74·3	−6·1	85·7	−6·8	22·7	107·5	9th	66·0	27th
	Hissar	725	28·985	+·056	29·622	29·133	17th	28·768	11th	81·6	66·7	99·4	7·4	69·1	−8·3	84·3	−7·9	30·3	109·1	9th	62·4	15th
	Patiala	*818*	28·855	+·002	29·635	29·033	17th	28·602	11th	81·1	66·1	96·7	−6·2	69·6	−6·9	83·1	−6·5	27·1	106·2	9th	61·7	14th
	Ambala	892	28·800	+·031	29·654	28·973	17th	28·583	6th	81·4	63·7	98·8	−5·3	70·1	−5·5	84·5	−5·4	28·7	110·3	5th & 10th.	58·4	26th
	Ludhiana	812	28·864	+·044	29·664	29·061	17th	28·662	6th	78·4	63·2	98·0	−6·2	69·6	−6·1	83·8	−6·1	28·4	107·7	5th	63·4	28th
	Lahore	702	29·990	+·048	29·664	29·156	17th	28·785	6th	79·2	65·2	97·4	−9·0	68·0	−5·4	83·7	−6·7	29·4	106·9	9th	60·3	15th
	Sialkot	830	28·862	+·041	29·668	29·051	24th	28·637	6th	77·9	64·2	96·6	9·6	66·4	−8·6	80·3	−9·1	27·2	102·7	8th	56·5	14th
	Rawalpindi	1,674	28·054	+·035	29·685	28·220	17th	27·860	12th	77·0	60·8	91·2	−6·8	61·1	−7·4	76·1	−7·1	30·1	102·9	22nd	43·0	13th
12	Khushab	612	29·100	+·060	29·681	29·290	17th	28·894	11th	82·5	63·8	97·4	−7·0	67·9	−9·0	82·6	−8·0	29·5	108·2	9th	58·2	13th
	Lyallpur	605	29·088		29·662	29·260	17th	28·865	11th	81·2	63·7	97·2		67·1		82·2		30·1	106·5	21st	58·0	15th
	Montgomery	556	29·136	+·056	29·662	29·308	17th	28·915	11th	81·8	65·3	97·4	−9·8	69·3	−8·7	83·3	−9·3	28·1	108·2	21st	61·8	13th
	Multan	426	29·265	+·046	29·655	29·424	17th	29·048	11th	81·5	67·3	99·1	−7·8	73·1	−5·0	86·1	−6·4	26·0	108·7	21st	59·4	26th
	VII.—North-West Frontier Province.																					
14	Peshawar*	1,113	28·627	+·033	29·728	28·800	17th	28·393	11th	72·5	61·9	94·6	−3·5	63·8	−6·1	79·2	−4·8	30·8	105·6	22nd	54·9	14th
	Dera Ismail Khan	590	29·139	+·051	29·699	29·300	17th	28·967	11th	82·1	67·1	97·9	−5·9	71·1	−3·5	84·5	−4·7	26·8	108·2	22nd	60·5	13th
	VIII.—Sind.																					
16	Jacobabad	186	29·531	+·065	29·673	29·669	17th	29·396	21st	88·9	67·3	106·6	−5·4	76·3	−2·0	91·5	−3·7	30·3	115·7	21st	64·8	15th
	Hyderabad	96	29·626	+·025	29·685	29·765	18th	29·526	22nd	85·3	72·9	105·4	−1·8	77·4	−0·8	91·4	−1·3	28·0	113·4	5th	69·9	30th
	Karachi	13	29·766	+·029	29·730	29·906	18th	29·658	5th	83·4	78·2	90·3	+1·5	78·6	+0·3	84·5	+0·9	11·7	107·6	10th	71·7	29th
	IX.—Rajputana.																					
17	Bikaner	*771*	28·956	+·057	29·686	29·115	30th	28·759	11th	83·5	67·0	101·8	−5·6	74·6	−8·3	88·2	−6·9	27·2	111·8	9th	64·9	27th
	Jodhpur	780	28·978	+·037	29·711	29·106	17th	28·813	5th	83·3	65·1	101·0	−5·5	74·4	−5·8	87·7	−5·7	26·6	110·6	8th	64·5	17th
18	Jaipur	1,481	29·329	+·020	29·699	29·468	17th	29·138	11th	82·1	63·2	99·6	−6·9	70·1	−8·2	84·9	−7·5	29·5	109·4	6th	60·2	17th
	Ajmer	1,611	29·158	+·014	29·695	29·286	18th	27·972	11th	80·7	63·6	98·1	−5·7	73·5	−6·5	85·8	−6·1	24·6	106·0	5th	63·4	17th
	Kotah	832	29·907	+·021	29·680	29·058	17th	28·751	11th	88·3	65·8	103·1	−5·9	79·0	−6·7	91·1	−6·3	24·1	111·2	6th	69·2	15th

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

* Mean of 30 days.

B—*continued.*

Stations in India, etc., in May, 1920—*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 1920.	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.*
11	1	7	1	2	0	3	0	6	N 8° E	N 72° E	2·0	2·9	−0·9	23	+10	38	− 8	·466	−·116	1·4	−0·4	3	+1·4	1·69	0·99	+0·70	1·69	0·99	+0·70	1·40	Lucknow.
4	2	1	7	5	1	1	5	5	N 63° E	S 72° E	3·3	3·6	−0·3	7	−39	38	−21	·426	−·297	1·1	−0·3	2	−0·8	2·97	1·65	+1·32	2·97	1·65	+1·32	1·80	Bahraich.
1	1	0	0	2	0	14	5	2	S 59° W	N 70° W	4·3	3·4	+0·9	56	+16	51	+13	·586	+·025	1·5	+0·4	2	+0·8	0·64	0·35	+0·29	0·64	0·35	+0·29	0·28	Jhansi.
7	3	2	1	2	2	5	6	3	S 87° W	S 49° W	3·5	4·5	−1·0	25	−14	34	− 4	·423	−·103	2·0	+0·8	2	+0·7	0·37	0·47	−0·10	0·37	0·47	−0·10	0·24	Agra.
4	1	1	4	4	2	5	5	5	S 55° W	N 84° W	2·2	2·0	+0·2	20	+ 5	40	− 1	·451	−·093	3·4	+1·4	4	+2·9	1·30	0·49	+0·81	1·30	0·49	+0·81	0·55	Mainpuri.
12	1	1	2	2	1	3	7	2	S 78° W	S 73° E	2·1	3·1	−1·0	20	+·7	49	0	·571	−·035?	3·0	+1·5	0	−1·7	0·06	0·75	−0·69	0·06	0·75	−0·69	0·06	Bareilly.
14	0	0	0	10	0	0	0	7	S 45° E	S 45° E	3·2	2·7	+0·5	10	−19	34	− 5	·355	−·116	1·3	0	2	+0·1	0·51	0·88	−0·37	0·51	0·88	−0·37	0·32	Roorkee.
																															VI.—Punjab.
6	1	3	1	6	2	1	6	5	S 84° W	S 73° W	3·5	3·2	+0·3	9	−16	43	+ 3	·403	−·091	2·2	+0·2	3	+1·2	0·55	0·62	−0·07	0·55	0·62	−0·07	0·32	Delhi.
1	2	1	2	7	2	7	6	2	S 26° W	S 39° W	5·4	4·5	+0·9	30	+ 5	44	+ 6	·457	−·047	1·8	−0·1	4	+2·6	1·15	0·55	+0·60	1·15	0·55	+0·60	0·63	Hissar.
7	4	3	0	8	0	0	8	1	N 45° W		6·4			3		44	0	·456	−·097	2·4	+1·2	2	+0·3	0·43	0·71	−0·28	0·43	0·71	−0·28	0·26	Patiala.
10	9	0	5	5	0	0	1	1	N 47° E	S 89° E	4·3	2·3	+2·0	30	+22	35	−10	·350	−·186	2·4	+1·3	2	+0·2	1·90	0·85	+1·05	1·90	0·85	+1·05	1·62	Ambala.
25	1	2	0	1	1	0	0	1	N 45° E	S 44° E	1·0	1·9	−0·9	3	−11	37	− 2	·346	−·141	1·7	+0·2	4	+2·4	0·94	0·66	+0·28	0·94	0·66	+0·28	0·38	Ludhiana.
6	4	6	5	3	1	1	1	4	N 43° E	N 22° E	2·1	2·3	−0·2	33	+11	45	+ 4	·439	−·065	1·7	+0·1	2	+0·6	0·65	0·72	−0·07	0·65	0·72	−0·07	0·60	Lahore.
4	6	7	5	2	0	1	1	5	N 27° E	N 41° E	3·2	2·3	+0·9	46	+ 7	46	+ 5	·420	−·092	1·9	+0·6	5	+2·8	2·99	1·08	+1·91	2·99	1·08	+1·91	1·76	Sialkot.
13	3	3	3	0	1	1	3	4	N 12° E	N 14° E	2·9	2·2	+0·7	20	+ 2	37	− 5	·333	−·119	1·0	−1·1	4	+1·3	1·22	1·30	−0·08	1·22	1·30	−0·08	0·61	Rawalpindi.
9	4	7	6	1	0	3	1	1	N 49° E	N 14° E	4·9	5·1	−0·2	33	+15	33	− 1	·347	−·095	2·3	+1·2	3	+1·5	0·66	0·71	−0·05	0·66	0·71	−0·05	0·85	Khushab.
3	1	5	6	3	2	4	3	4	N 82° E		2·6			10		36		·352		3·1		2	+0·9	0·35	0·35	0	0·35	0·35	0	0·17	Lyallpur.
3	4	3	2	3	2	8	2	4	S 79° W	S 48° E	4·3	5·5	−1·2	13	− 1	39	+ 8	·399	−·039	2·1	+1·1	3	+2·0	0·90	0·32	+0·58	0·90	0·32	+0·58	0·65	Montgomery.
12	6	3	1	3	0	2	0	4	N 8° E	S 12° E	1·8	1·9	−0·1	23	+16	47	+ 5	·482	−·068	2·5	+1·9	3	+2·3	1·63	0·29	+1·54	1·63	0·29	+1·54	1·38	Multan.
																															VII.—North-West Frontier Province.
24	1	0	1	0	2	0	0	2	N 45° W	N 50° W	1·3	3·4	−2·1	1	−10	54	+11	·391	−·096	1·5	−0·7	1	−1·1	0·27	0·88	−0·61	0·27	0·88	−0·61	0·17	Peshawar.
13	0	12	0	1	0	0	0	5	N 27° E	N 16° E	2·6	1·8	+0·8	43	+18	44	− 4	·466	−·134	1·8	+0·8	3	+2·1	1·88	0·39	+1·49	1·88	0·39	+1·49	1·12	Dera Ismail Khan.
																															VIII.—Sind.
18	0	1	2	6	0	1	0	3	S 63° E	S 53° E	1·2	3·4	−2·2	13	−16	30	−12	·388	−·244	0·4	−0·4	1	+0·7	0·38	0·13	+0·25	0·38	0·13	+0·25	0·38	Jacobabad.
6	2	0	1	1	2	13	4	2	S 58° W	S 45° W	6·2	10·6	−4·4	49	−41	55	+ 1	·647	−·023	0	−0·8	3	+2·7	0·87	0·15	+0·72	0·87	0·15	+0·72	0·44	Hyderabad.
0	0	2	2	0	0	9	15	3	S 82° W	S 56° W	9·9	12·3	−2·4	66	+12	79	− 1	·898	+·019	3·9	+0·7	1	+0·9	0·83	0·05	+0·78	0·83	0·05	+0·78	0·77	Karachi.
																															IX.—Rajputana.
2	0	0	7	1	4	7	6	4	S 43° W	S 36° W	7·1	5·8	+1·3	30	−35	43	− 1	·448	−·177	1·9	+0·8	3	+1·9	0·89	0·58	+0·31	0·89	0·58	+0·31	0·41	Bikaner.
5	2	0	1	2	2	13	5	1	S 51° W		4·5			53		37	− 5	·383	−·146	2·5	+1·4	5	+4·3	2·45	0·23	+2·22	2·45	0·23	+2·22	1·00	Jodhpur.
6	2	2	1	2	0	5	9	4	N 84° W	S 88° W	3·9	4·6	−0·7	37	−13	34	− 3	·345	−·152	2·5	+1·1	2	+0·6	1·13	0·52	+0·61	1·13	0·52	+0·61	0·56	Jaipur.
16	1	0	0	0	0	5	9	0	S 78° W	S 79° W	4·7	6·4	−1·7	43	−32	37	− 7	·379	−·188	1·0	−0·1	1	−0·4	0·58	0·53	+0·05	0·58	0·53	+0·05	0·50	Ajmer.
3	4	1	0	0	0	15	2	6	S 84° W		4·5			53		29	+ 1	·366	−·071	1·7	+1·1	1	−0·2	0·14	0·49	−0·35	0·14	0·49	−0·35	0·11	Kotah.

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. 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 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	29·830	+·015	29·748	29·459	18th	29·203	5th	82·4	71·9	103·9	—3·1	74·1	—3·3	89·0	—3·2	29·8	114·8	5th	64·1	28th
	Bhuj	334	29·458	+·015	29·739	29·607	18th	29·348	5th	85·8	79·7	100·6	—0·8	77·0	+0·5	88·8	—0·1	23·6	109·8	4th	73·1	27th
	Jamnagar	61	29·751	+·010	29·757	29·865	18th	29·654	5th	85·2	78·0	97·1	—0·8	76·6	—0·1	86·8	—0·5	20·5	104·7	11th	69·8	16th
	Dwarka	37	29·790	+·010	29·773	29·925	18th	29·686	5th	83·5	79·4	88·8	+1·1	81·2	+1·1	85·0	+1·1	7·6	90·5	25th	77·9	19th
	Rajkot	429	29·373	—·007	29·749	29·494	18th	29·263	5th	83·6	74·2	102·6	—2·8	76·6	+1·6	89·6	—0·6	26·0	110·2	5th	60·0	16th
	Veraval	*18*	29·833	+·017	29·794	29·937	18th	29·738	5th	81·9	79·3	85·6	—0·8	79·1	+0·7	82·4	—0·1	6·5	87·4	25th	74·3	16th 17th.
	Bhavnagar Para	55	29·766	—·002	29·766	29·888	18th	29·619	5th	84·1	74·5	102·2	—2·9	75·7	—2·5	89·0	—2·7	26·5	109·8	6th & 10th.	67·4	18th
	Surat	39	29·803	+·004	29·785	29·924	18th	29·703	5th	85·4	77·5	95·9	—1·8	77·8	—0·6	86·9	—1·2	18·1	107·3	4th	70·9	26th
	Ahmadabad	163	29·662	+·016	29·771	29·783	17th	29·553	5th	84·1	74·0	104·6	—3·0	76·1	—3·3	90·4	—3·1	28·5	114·9	5th	66·9	27th
25	Bombay	37	29·839	+·005	29·816	29·940	18th	29·763	2nd	83·7	77·2	91·4	+0·6	80·9	+0·2	86·2	+0·4	10·5	92·8	30th	79·0	1st
	Ratnagiri	207	29·671	+·008	29·816	29·749	18th	29·605	1st & 2nd.	84·5	76·0	90·1	—0·9	80·2	+0·5	85·2	—·2	9·9	91·5	26th	77·9	1st
	Marmagao	60	29·830	+·011	29·824	29·912	17th	29·759	4th	84·5	77·7	89·0	—0·8	80·4	—0·6	84·7	—0·7	8·6	91·3	12th	73·8	31st
	Karwar	44	29·845	+·011	29·823	29·926	17th	29·773	1st	82·7	76·9	91·7	+2·0	80·2	+0·5	85·8	+1·3	11·5	93·1	22nd, 24th & 29th.	75·0	25th
26	Malegaon	1,430	28·401	+·010	29·751	28·509	17th	28·276	5th	85·4	71·7	103·8	—0·7	73·2	—2·0	88·5	—1·3	30·6	109·5	6th	66·2	26th
	Ahmadnagar	2,154	27·707	+·002	29·742	27·806	17th	27·611	5th	82·1	66·8	101·5	+0·4	70·6	—1·2	86·1	—0·4	30·9	105·8	10th	65·3	15th
	Poona	1,846	28·049	+·033?	29·813	28·166	18th	27·973	1st & 5th.	79·4	69·3	98·4	—1·3	70·4	—1·4	84·4	—1·3	28·0	104·0	4th	67·4	1st 4th.
	Sholapur	1,590	28·246	+·004	29·748	28·330	15th & 17th.	28·161	2nd & 5th.	82·6	67·5	103·5	—1·3	75·9	—0·8	89·7	—1·1	27·6	108·1	10th	65·8	31st
	Bijapur	*1,948*	27·915	+·011	29·761	28·014	17th	27·834	5th	81·2	70·7	100·8	—0·5	73·4	—1·0	87·1	—0·7	27·4	105·9	10th	70·1	31st
	Belgaum	2,562	27·357	+·017	29·818	27·432	18th	27·298	2nd	73·3	68·0	93·2	+0·1	67·2	—0·9	80·2	—0·4	26·0	97·9	31st	64·8	18th
	XI.—Central India.																					
20	Neemuch	1,626	28·155	+·005	29·703	28·277	18th	28·026	5th	81·8	70·1	98·0	—5·8	71·9	—5·5	84·8	—5·7	26·1	108·1	5th	56·6	27th
	Indore	1,623	27·991	+·014	29·715	27·121	18th	26·865	5th	84·8	68·6	100·0	—2·9	70·6	—5·6	85·2	—4·3	29·4	106·7	6th	64·1	19th
21	Nowgong	754	28·979	+·036	29·679	29·119	18th	28·608	6th	84·7	66·3	101·6	—5·7	74·1	—5·8	88·0	—5·7	27·5	110·0	6th	66·0	26th
	Sutna	1,041	28·691	+·042	29·666	28·842	18th	28·459	6th	87·4	68·5	101·0	—4·6	75·4	—4·3	88·3	—4·5	25·6	108·3	6th & 10th.	68·8	26th
	XII.—Central Provinces.																					
22	Buldana	2,134								82·6	67·5	99·5	—2·0	75·7	—2·0	87·6	—2·0	23·8	104·4	6th	69·2	27th
	Akola	925	28·881	+·031	29·781	28·987	17th	28·745	5th	87·2	68·3	106·2	—1·9	77·7	—3·5	92·0	—2·7	28·5	111·3	6th	68·5	19th
	Amraoti	1,215	28·569	+·018	29·704	28·684	18th	28·441	5th	88·2	66·4	105·1	—3·7	78·3	—1·9	91·7	—2·3	26·8	111·1	6th	73·5	16th
23	Khandwa	1,044	28·752	+·017	29·729	28·871	18th	28·625	5th	86·3	69·7	104·6	—2·2	76·9	—4·3	90·7	—3·3	27·7	111·0	5th	70·6	3rd
	Hoshangabad	1,006	28·771	+·023	29·712	28·913	18th	28·647	5th	85·8	71·8	103·3	—4·1	75·1	—5·3	89·2	—4·7	28·2	109·9	6th	67·8	25th
	Saugor	1,807	27·936	—·017?	29·652	28·064	17th	27·809	5th	82·4	63·4	99·7	—5·3	74·8	—4·3	87·3	—4·8	24·9	108·2	6th	64·0	15th
	Jubbulpore	1,327	28·415	+·015	29·668	28·562	18th	28·263	5th	85·5	65·3	101·1	—4·6	74·9	—3·8	89·0	—4·2	26·2	107·3	9th	66·9	4th
	Seoni	2,033	27·761	+·025	29·679	27·879	18th	27·611	6th	85·2	63·9	98·7	—5·2	73·2	—3·5	86·0	—4·3	25·5	106·4	10th	64·5	4th
	Nagpur	1,017	28·756	+·037	29·696	28·885	15th	28·615	6th	90·1	69·1	105·5	—3·7	78·9	—3·1	92·2	—3·4	26·6	112·4	10th	71·3	27th
24	Pendra	2,040	27·745	+·035	29·671	27·876	18th	27·600	6th	84·9	63·7	96·7	—5·6	76·6*	—0·8?	88·6*	—3·2?	20·1	103·9	6th	71·7	3rd

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

* Mean of 15 days.

B—*continued.*

stations in India, etc., in May, 1920—*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, 1920.	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.
1	1	1	1	1	12	3	6	5	S 44° W	S 83° W	8·2	9·8	−1·6	46	−19	59	+ 2	·653	−·031	3·0	+1·0	7	+6·6	6·06	0·18	+5·88	6·06	0·18	+5·88	2·70	Deesa.
0	3	0	0	0	0	2	26	0	N 87° W	S 77° W	8·7	12·7	−4·0	89	+ 6	76	+10	·930	+ 120?	2·8	+1·6	0	−0·2	0·08	0·06	+0·02	0·08	0·06	+0·02	0·08	Bhuj.
0	0	0	0	0	1	11	13	6	S 80° W		10·2			82		71	+ 5	·857	+·050	2·8	+1·6	1	+0·9	0·25	0·02	+0·23	0·25	0·02	+0·23	0·25	Jamnagar.
0	1	0	0	0	3	11	14	2	S 70° W		11·7			77		83	+ 2	·947	+·022	2·5	+0·2	0	0	0·03	0·01	+0·02	0·03	0·01	+0·02	0·03	Dwarka.
0	1	0	0	1	3	13	9	5	S 69° W	N 89° W	10·7	10·5	+0·2	69	−13	63	− 5	·711	−·089	6·7	+5·2?	3	+2·7	3·53	0·16	+3·37	3·53	0·16	+3·37	1·70	Rajkot.
1	3	0	0	1	3	5	16	3	S 82° W	N 89° W	9·7	6·9	+2·8	69	− 7	85	+ 3	·929	+·025	3·3	0	2	+1·9	0·97	0·04	+0·93	0·97	0·04	+0·93	0·55	Veraval.
0	1	0	0	1	5	9	9	6	S 70° W	S 62° W	5·1	10·3	−5·2	65	−16	63	0	·726	−·053	2·5	+0·7	5	+4·7	3·22	0·12	+3·10	3·22	0·12	+3·10	1·15	Bhavnagar Para.
14	1	1	0	1	5	5	3	1	S 41° W	S 54° W	4·4	8·1	−3·7	30	−38	69	+ 2	·836	0	4·5	+1·6	0	−0·2	0·05	0·09	−0·04	0·05	0·09	−0·04	0·03	Surat.
7	0	0	0	1	2	13	1	7	S 64° W	S 81° W	3·4	5·1	−1·7	49	−14	61	+ 3	·710	−·023	2·0	−0·3	7	+6·8	4·22	0·11	+4·11	4·22	0·11	+4·11	0·97	Ahmadabad.
0	2	2	4	1	1	4	10	7	N 73° W	N 81° W	5·9	7·4	−1·5	43	− 4	73	− 1	·847	−·032	4·3	+0·3	0	− 0·7	0	0·64	−0·64	0	0·64	−0·64	0	Bombay.
2	6	2	0	1	0	2	3	15	N 39° W	N 48° W	8·2	7·1	+1·1	66	+ 9	65	− 4	·773	−·066	3·9	+0·4	0	−1·3	0	1·11	−1·11	0	1·11	−1·11	0	Ratnagiri.
0	8	0	1	0	0	1	9	12	N 48° W	N 28° W	12·5	8·0	+4·5	76	+14	73	− 3	·853	−·055	5·6	+0·8	2	−0·2	1·11	1·68	−0·57	1·11	1·68	−0·57	0·86	Marmagao.
14	17	0	0	0	0	0	0	0	N	N 30° W	3·3	4·2	−0·9	55	− 8	75	− 2	·848	−·010	3·6	−0·3	2	−1·1	0·41	2·61	−2·20	0·41	2·61	−2·20	0·20	Karwar.
4	1	0	1	1	0	13	6	5	S 73° W	N 79° W	7·6	9·7	−2·1	56	−24	50	+ 1	·603	−·013	1·4	−0·1	1	−0·1	0·97	0·79	+0·18	0·97	0·79	+0·18	0·97	Malegaon.
3	4	2	0	2	0	1	5	14	N 44° W	N 34° W	6·3	10·9	−4·6	59	− 9	43	−10	·466	−·143	0·3	−1·3	0	−1·3	0	0·79	−0·79	0	0·79	−0·79	0	Ahmadnagar.
1	1	0	0	0	1	2	13	13	N 72° W	N 80° W	10·2	11·2	−1·0	79	− 4	60	+ 6	·591	+·043?	2·6	+0·3	0	1·5	0	1·08	−1·08	0	1·08	−1·08	0	Poona.
0	1	1	0	0	0	0	1	28	N 43° W	N 55° W	9·0	8·2	+0·8	92	+16	44	− 1	·477	−·056	2·1	−0·8	1	−1·1	1·72	0·92	+0·80	1·72	0·92	+0·80	1·68	Sholapur.
1	9	1	0	0	0	1	9	10	N 45° W	N 81° W	4·8	6·1	−1·3	72	− 5	59	− 2	·622	−·038	2·1	−0·6	1	−1·6	0·18	1·20	−1·02	0·18	1·20	−1·02	0·18	Bijapur.
10	1	0	0	0	0	4	13	3	N 89° W	N 67° W	4·1	12·8	−8·7	58	+ 4	76	+ 7	·620	0	4·8	+1·1	2	−2·6	1·97	2·39	−0·42	1·97	2·39	−0·42	1·50	Belgaum.
																															XI.—Central India.
11	0	0	2	0	0	1	17	0	S 87° W	S 84° W	6·4	8·8	−2·4	53	−16	57	+ 8	·598	−·022	1·1	+0·2	8	+7·0	3·15	0·44	+2·71	3·15	0·44	+2·71	1·20	Neemuch.
3	6	1	0	0	1	0	13	7	N 58° W	N 71° W	6·1	4·6	+1·5	66	− 9	43	− 8	·497	−·132	0·3	−1·1	2	+0·9	0·87	0·48	+0·39	0·87	0·48	+0·39	0·60	Indore.
7	1	1	2	3	1	7	6	3	S 63° W	N 82° W	2·4	2·7	−0·3	30	−24	36	+ 1	·414	−·078	2·1	+0·6	2	+1·2	0·31	0·34	−0·03	0·31	0·34	−0·03	0·17	Nowgong.
5	2	0	2	5	3	5	4	5	S 50° W	N 73° W	2·8	5·9	−3·1	27	−17	38	+ 8	·475	+·040	1·7	−0·3	2	+0·8	0·75	0·46	+0·29	0·75	0·46	+0·29	0·56	Sutna.
																															XII.—Central Provinces.
0	0	2	1	0	0	0	12	16	N 58° W		8·1	8·9	−0·8	78		46		·490		2·6		0	−1·1	0·10	0·49	−0·39	0·10	0·49	−0·39	0·07	Buldana.
0	4	1	0	1	0	0	11	14	N 55° W	N 68° W	7·3	7·0	+0·3	76	−10	35	− 4	·438	−·094	2·7	+0·9	1	+0·2	0·19	0·36	−0·17	0·19	0·36	−0·17	0·14	Akola.
2	0	7	1	2	0	1	6	13	N 35° W	N 77° W	5·8	5·0	+0·8	46	−22	28	−12	·370	−·197	2·2	+0·4	0	−1·4	0·05	0·54	−0·49	0·05	0·54	−0·49	0·02	Amraoti.
0	4	2	2	2	2	1	9	9	N 56° W	N 70° W	7·7	7·5	+0·2	46	−40	43	0	·516	−·027	2·2	+1·0	0	−0·8	0·13	0·36	−0·23	0·13	0·36	−0·23	0·07	Khandwa.
11	0	3	0	3	0	11	0	3	S 45° W	S 66° W	2·3	3·0	−0·7	27	−35	49	+10	·601	+·059?	2·3	+1·1	3	+1·9	0·91	0·49	+0·42	0·91	0·49	+0·42	0·43	Hoshangabad.
1	1	1	2	3	0	2	16	5	N 84° W	S 86° W	5·3	3·9	+1·4	53	+ 3	31	− 2	·316	−·141	2·5	+1·1	2	+1·1	1·46	0·46	+1·00	1·46	0·46	+1·00	0·83	Saugor.
4	0	1	3	5	3	5	8	2	S 36° W	S 78° W	2·4	3·1	−0·7	33	−21	42	0	·374	−·072	1·3	0	0	−1·1	0	0·46	−0·46	0	0·46	−0·46	0	Jubbulpore.
3	8	6	2	0	2	1	4	5	N 9° W	N 39° W	4·4	3·4	+1·0	43	+ 5	29	− 4	·334	−·116	1·7	−0·2	2	+0·2	0·56	0·64	−0·08	0·56	0·64	−0·08	0·28	Seoni.
3	2	5	3	1	0	0	8	9	N 32° W	N 48° W	5·3	5·8	−0·5	43	− 4	32	0	·438	−·044	2·2	−0·1	2	+0·2	0·31	0·75	−0·44	0·31	0·75	−0·44	0·11	Nagpur.
18	2	0	0	0	1	1	3	6	N 60° W		4·2			30		30	− 1	·328	−·081	3·4	+1·5	2	+0·3	0·37	0·84	−0·47	0·37	0·84	−0·47	0·20	Pendra.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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
	XII.—Central Provinces —concld.																					
	Raipur	970	28·769	+·017	29·664	28·911	18th	28·615	5th	88·9	69·8	104·4	−2·8	78·5	−3·3	91·5	−3·1	25·9	112·0	10th	71·6	23rd
	Chanda	634	29·127	+·005	29·689	29·241	15th	29·001	5th	90·6	70·8	107·4	−2·3	79·1	−3·0	93·3	−2·7	28·3	113·1	9th	70·8	5th
	Jagdalpur	1,813	28·007		29·709	28·127	18th	27·889	5th	85·7	70·3	99·9		72·9		86·4		27·0	107·2	9th	65·1	5th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·950	+·007	29·748	28·056	17th	27·836	5th	83·7	66·2	101·8	−2·4	74·8	−0·4	88·3	−1·4	27·0	107·0	6th	71·0	26th & 27th.
	Nizamabad	1,248	28·549	−·016	29·705	28·657	17th	28·436	5th	89·0	69·0	108·0	+1·8	79·0	−2·2	93·5	−0·2	29·0	114·6	10th	70·5	4th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·320	−·001	29·731	28·407	17th	28·225	2nd	84·1	70·4	105·7	+1·0	77·3	−1·2	91·5	−0·1	28·4	111·0	10th	70·8	31st
	Raichur	*1,311*	28·525	+·022	29·750	28·611	16th	28·437	4th	86·0	74·9	104·0	+0·5	79·2	−0·2	91·7	+0·1	24·8	110·0	10th	72·9	24th
	Hyderabad (Deccan)	1,738	28·114	+·024	29·722	28·219	16th	28·015	2nd	86·4	72·5	102·8	−0·7	78·7	−1·7	90·8	−1·2	24·1	108·4	9th	70·2	24th
	Hanamkonda	877	28·901	+·008	29·702	29·033	16th & 17th.	28·736	7th	88·3	72·1	105·5	+0·5	81·0	−1·4	93·4	−0·5	24·5	112·5	9th	72·7	26th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·485	+·002	29·780	27·579	17th	27·403	2nd & 4th.	76·0	66·7	95·4	+1·1	70·7	−0·8	83·0	+0·1	24·7	99·8	10th	67·0	25th
	Hassan	3,149	26·811	+·019	29·811	26·885	17th	26·738	2nd	73·4	67·6	89·3	+0·6	66·6	−0·3	77·9	+0·1	22·7	95·4	10th	64·2	18th
	Bangalore	3,021	26·923	+·010	29·761	27·001	18th	26·841	2nd	75·8	68·7	94·1	+2·5	69·2	0	81·6	+1·3	24·9	98·8	10th	65·1	25th
	Mysore	2,518	27·406	+·004	29·799	27·483	17th	27·325	2nd	76·6	69·2	93·3	+1·6	69·4	−0·3	81·3	+0·7	23·9	99·0	10th	65·3	23rd
	XV.—Madras.																					
30	Mangalore	72	29·827	+·001	29·830	29·902	15th	29·754	1st	84·7	76·8	92·2	+0·4	79·8	+1·2	86·0	+0·8	12·4	93·8	9th	74·7	31st
	Calicut	27	29·868	+·010	29·824	29·950	15th	29·789	2nd	83·5	78·0	90·6	+0·4	79·4	+1·3	85·0	+0·9	11·2	96·7	17th	74·4	29th
	Cochin	9	29·993	+·008	29·830	29·963	15th	29·825	2nd	84·4	78·4	90·2	+0·5	78·6	+1·1	84·4	+0·8	11·6	91·8	28th	73·1	29th
	Trivandrum	193	29·701	+·012	29·829	29·772	17th	29·630	2nd	81·4	77·5	87·3	+0·9	76·0	−0·1	82·6	+0·4	9·3	89·6	26th	74·8	23rd
31	Pamban	37	29·807	+·001	29·771	29·890	18th	29·706	3rd	84·9	79·1	92·4	+1·0	81·1	−0·1	86·7	+0·5	11·3	93·7	14th	80·2	29th
	Madura	447	29·403	+·011	29·778	29·496	18th	29·310	2nd	85·3	75·6	99·7	−0·3	79·1	+1·5	89·4	+0·6	20·6	104·4	9th	63·8	29th
	Pudukkottai	318	29·532	+·007	29·777	29·616	18th	29·426	4th	85·7	76·0	100·8	−0·5	79·0	−0·2	89·9	−0·3	21·8	107·2	9th	71·3	27th
	Negapatam	31	29·807	+·010	29·767	29·889	18th	29·692	3rd	85·7	78·0	96·4	−1·2	80·7	+0·5	88·5	−0·3	15·7	103·4	7th	71·8	17th
	Trichinopoly	255	29·583	+·002	29·768	29·669	18th	29·480	4th	86·0	76·3	101·3	−0·4	79·1	+0·4	90·2	0	22·2	107·9	10th	72·7	27th
	Coimbatore	1,341	28·831	+·014	29·791	28·617	18th	28·448	2nd	80·5	74·1	95·3	+0·5	73·6	+0·1	84·5	+0·3	21·7	97·7	26th	68·1	29th
	Salem	913	28·947	+·018	29·787	29·017	16th	28·860	2nd	83·0	74·2	99·8	+0·3	76·9	+0·7	88·3	+0·5	22·9	105·0	10th	71·8	29th
	Cuddalore	37	29·783	+·004	29·750	29·880	18th	29·650	3rd	86·5	77·8	98·3	−0·4	81·0	+0·9	89·6	+0·3	17·3	105·7	5th	74·7	27th
	Vellore	767	29·114	−·006	29·745	29·206	18th	29·007	2nd	86·2	73·1	103·4	+3·6	80·3	+1·8	91·8	+2·7	23·1	109·4	10th	73·8	24th
	Madras	22	29·778	−·007	29·731	29·865	18th	29·642	4th	87·8	78·7	99·6	+1·1	81·5	+0·3	90·5	+0·7	18·1	108·7	7th	74·2	27th
32	Cuddapah	428	29·393	+·005	29·750	29·471	15th	29·291	2nd	89·6	75·3	106·3	0	83·4	0	94·9	0	22·9	110·0	6th, 10th & 11th.	71·0	24th

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

B—*continued.*

Stations in India, etc., in May, 1920—*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 May 1920.	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.*
28	1	0	1	1	1	3	3	3	S 83° W	S 76° W	3·8	5·8	−2·0	17	−26	38	+ 3	·500	−0·05	3·1	+0·3	2	−0·1	0·51	0·90	−0·39	0·51	0·90	−0·39	0·24	Raipur.
0	2	3	0	3	3	8	6	6	S 85° W	S 84° W	4·3	3·5	+0·8	40	+17	35	− 2	·497	−·058	3·2	+1·0	0	−1·5	0·02	0·62	−0·60	0·02	0·62	−0·60	0·02	Chanda.
4	3	1	1	0	8	9	2	3	S 46° W		2·8			43		47		·560		0·6		1	−3·7	0·90	2·39	−1·49	0·90	2·39	−1·49	0·84	Jagdalpur.
																															XIII.—Hyderabad.
0	7	2	0	0	0	1	12	9	N 52° W		11·0			72		39	− 2	·428	−·062	1·6	+0·3	0	−1·4	0	0·70	−0·70	0	0·70	−0·70	0	Aurangabad.
2	10	4	0	0	0	4	7	4	N 38° W		3·3			53		33	−16	·452	−·235P	3·5	+1·0	2	+1·0	0·42	0·31	+0·11	0·42	0·31	+0·11	0·17	Nizamabad.
																															Bidar.
0	7	3	0	0	0	1	9	11	N 43° W	N 44° W	8·7	9·1	−0·4	69	+ 8	50	− 6	·567	−·107	0·9	−1·8	3	+0·8	1·26	0·98	+0·28	1·26	0·98	+0·28	0·62	Gulbarga.
0	3	0	0	0	0	0	6	22	N 49° W	N 33° W	8·9	8·4	+0·5	89	+20	60	+ 7	·732	+·089	2·8	−0·1	2	+0·6	1·29	0·79	+0·50	1·29	0·79	+0·50	1·16	Raichur.
9	0	0	0	0	2	1	10	9	N 78° W	S 82° W	4·0	4·7	−0·7	56	− 4	50	+ 2	·623	+·039	3·5	+0·2	4	+2·1	3·16	0·88	+2·28	3·16	0·88	+2·28	1·72	Hyderabad (Deccan).
6	1	4	2	6	7	0	2	3	S 43° E		5·2			27		46	− 2	·593	−·033	3·3	0	1	−0·7	0·51	0·64	−0·13	0·51	0·64	−0·13	0·32	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	9	15	7	S 87° W	S 81° W	6·1	6·6	−0·5	86	+ 3	69	− 2	·611	−·057	3·9	−1·0	2	−2·4	3·70	2·98	+0·72	3·70	2·98	+0·72	3·10	Chitaldrug.
3	0	0	0	0	0	4	20	4	W	N 80° W	6·8	2·9	+3·9	83	+ 5	74	− 1	·610	−·037	3·6	−1·8	8	+1·1	2·35	4·82	−2·47	2·35	4·82	−2·47	0·43	Hassan.
0	0	0	0	0	0	3	25	3	W	S 75° W	6·3	4·6	+1·7	94	+11	69	− 6	·611	−·053	4·8	+0·5	4	−2·8	2·39	4·16	−1·77	2·39	4·16	−1·77	1·40	Bangalore.
3	0	0	0	0	2	11	14	1	S 68° W	S 74° W	5·7	7·4	−1·7	79	+ 3	68	− 8	·620	−·064	4·4	−1·5	4	−3·8	2·96	5·28	−2·32	2·96	5·28	−2·32	1·07	Mysore.
																															XV.—Madras.
0	10	2	0	0	0	0	1	9	N 50° E	N 18° E	5·8	2·8	+3·0	86	+61	68	− 5	·812	−·047	5·7	−0·5	1	−5·4	0·45	5·77	−5·32	0·45	5·77	−5·32	0·38	Mangalore.
12	11	0	1	0	0	0	0	7	N 15° W	N 15° W	6·9	8·2	−1·3	56	+16	77	− 2	·879	−·008	5·9	+0·4	2	−6·3	0·83	7·78	−6·95	0·83	7·78	−6·95	0·59	Calicut.
17	0	5	6	0	0	0	2	1	N 58° E	N 29° E	5·6	4·5	+1·1	27	−20	76	− 5	·889	−·007	4·7	−1·1	6	−6·2	3·16	11·58	−8·42	3·16	11·58	−8·42	1·08	Cochin.
2	7	0	0	0	0	0	0	22	N 34° W	N 16° W	5·4	5·2	+0·2	86	+18	83	+ 2	·886	+·017	5·4	−0·7	3	−7·0	1·67	8·54	−6·87	1·67	8·54	−6·87	0·66	Trivandrum.
0	0	0	0	0	13	17	0	1	S 27° W	S 22° W	10·2	8·5	+1·7	89	+16	77	− 2	·946	−·019	2·9	−0·2	0	−1·4	0	0·78	−0·78	0	0·78	−0·78	0	Pamban.
3	1	1	1	0	0	0	12	18	N 61° W	N 38° W	3·9	4·5	−0·6	69	+12	62	− 5	·756	−·061	6·7	+3·0P	6	+1·4	3·74	2·74	+1·00	3·74	2·74	+1·00	1·32	Madura.
14	2	0	0	0	2	1	5	7	N 70° W		3·2			39		63	− 6	·766	−·073	3·3	−2·0	3	−0·6	4·03	2·28	+1·75		2·28		2·47	Pudukkottai.
1	0	0	0	0	2	16	12	0	S 61° W	S 46° W	7·0	5·8	+1·2	83	+14	70	+ 2	·855	−·023	3·9	−0·2	1	−1·0	1·60	1·68	−0·08	1·60	1·68	−0·08	1·60	Negapatam.
0	0	0	0	0	1	12	18	0	S 71° W	S 76° W	4·7	4·5	+0·2	89	+14	64	− 2	·778	−·025	3·9	−0·2	3	−1·2	2·78	3·21	−0·43	2·78	3·21	−0·43	1·42	Trichinopoly.
16	0	0	1	0	3	9	2	0	S 38° W	S 22° W	4·0	3·3	+0·7	37	−31	72	− 9	·757	−·071	2·5	−1·8	3	−1·7	1·52	2·34	−0·82	1·52	2·34	−0·82	0·96	Coimbatore.
3	0	0	0	0	2	19	5	2	S 55° W	S 48° W	4·2	3·0	+1·2	79	+29	66	− 7	·731	−·113	3·6	−0·4	6	−1·7	1·64	4·78	−3·14	1·64	4·78	−3·14	0·45	Salem.
8	0	0	0	1	1	21	0	0	S 40° W	S 47° W	3·9	2·1	+1·8	69	+ 1	67	− 4	·838	−·074	5·1	+1·8P	0	−1·2	0	0·68	−0·68	0	0·68	−0·68	0	Cuddalore.
14	0	0	0	0	0	0	9	8	N 68° W		2·8			54		62	− 3	·774	−·021	2·4	−0·6	3	−0·7	0·92	2·31	−1·39	0·92	2·31	−1·39	0·40	Vellore.
3	1	0	0	0	13	11	3	0	S 29° W	S 41° W	4·0	6·6	−2·6	76	+ 4	65	0	·853	−·018	3·3	−0·7	3	+1·9	1·25	1·01	+0·24	1·25	1·01	+0·24	0·84	Madras.
2	2	1	0	0	0	7	15	4	N 89° W	N 89° W				72	+11	50	− 4	·689	−·070	4·2	+0·4	1	−1·8	0·81	1·61	−0·80	0·81	1·61	−0·80	0·78	Cuddapah.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	28·373	+·006	29·760	28·455	17th	28·290	4th	84·6	72·6	103·2	+0·7	77·2	−0·4	90·2	+0·1	26·0	107·3	3rd	70·2	23rd
	Kurnool	923	28·897	+·007	29·747	28·962	16th	28·795	3rd	85·0	75·8	104·9	−0·2	81·0	0	93·0	−0·1	23·9	112·0	10th	74·8	24th
33	Nellore	66	29·714	−·004	29·714	29·818	18th	29·596	4th	88·0	79·3	103·4	−1·8	80·6	−1·0	92·0	−1·4	22·8	109·8	9th & 11th.	71·1	27th
	Masulipatam	15	29·771	+·002	29·721	29·890	18th	29·635	4th	87·3	80·9	98·5	−1·4	80·3	−1·4	89·4	−1·4	18·2	111·9	5th	70·2	29th
	Cocanada	26	29·767	+·010	29·730	29·898	16th	29·628	5th	86·0	80·4	96·3	−3·6?	79·9	−2·4	83·1	−3·0?	16·4	104·5	16th	73·6	24th
	Waltair (Vizagapatam)	226	29·736	+·008	29·713	29·863	16th	29·600	4th	86·8	79·4	92·8	+0·9	82·0	+1·1	87·4	+1·0	10·8	98·0	17th	72·6	23rd
	Calingapatam	19	29·744		29·700	29·858	18th	29·584	3rd	85·7	80·1	94·7		80·1		87·4		14·6	100·2	16th	72·8	23rd
	Gopalpur	33	29·691	+·011	29·687	29·828	18th	29·535	5th	85·0	80·3	90·8	+0·8	8[illegible]·2	+0·1	85·5	+0·5	10·6	96·0	16th	74·0	18th
	Bay Stations.																					
1	P. V. Fraser	8	29·735		29·698	29·847	16th17th & 18th.	29·548	6th & 7th.	85·0	80·5											
	Port Blair	58	29·781	−·022	29·769	29·857	9th	29·628	4th	82·2	77·8	88·3	−0·4	77·5	−1·0	82·9	−0·7	10·8	91·4	14th & 15th.	72·5	1st
	Table Island		29·745	−·010	29·769	29·836	9th	29·546	4th	83·2	79·3	87·8	−1·3	80·5	+0·9	84·2	−0·2	7·3	91·5	13th	71·1	19th
	Kashmir.																					
13	Muzaffarabad		27·441			27·568	5th	27·302	4th	66·1	55·5	87·3		56·8		72·1		30·5	98·0	22nd & 25th.	49·3	12th & 13th.
	Srinagar	5,204	24·837	−·016	24·8[illegible]8	24·983	16th	24·600	11th	55·8	50·8	68·6	−7·1	46·7	−5·1	57·6	−6·1	21·9	79·6	22nd	37·3	13th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·795	−·027	20·763	20·958	3rd & 8th.	20·523	12th	33·4	35·4*	43·8	−16·8	23·9	−9·2	33·9	−12·9	19·9	59·7	31st	14·1	3rd
	Leh	*11,503*	19·676	−·072	19·644	19·799	8th	19·403	12th	42·9	34·6†	54·6	−9·0	32·1	−4·6	43·5	−6·8	22·5	65·7	31st	25·3	13th
	Skardu	7,505	22·816	−·049	22·786	22·948	3rd	22·585	11th	54·1	43·4	65·8	−5·5	46·0	−3·3	55·9	−4·4	19·8	76·1	31st	35·7	13th
	Gilgit	4,890	25·123	+·021	25·096	25·254	3rd	24·912	12th	63·0	54·8	76·4	−6·9	53·3	−7·0	64·9	−6·9	23·1	89·2	31st	42·7	12th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·314		25·283	25·417	17th	25·146	12th	68·1	52·4	85·3		58·6		71·9		26·7	94·1	21st	50·0	14th
	Quetta	5,502	24·602	0	24·563	24·688	18th	24·521	26th	59·9	49·1	79·0	−4·4	48·0	−3·9	63·5	−4·1	31·0	87·1	21st	37·1	14th
	Chaman	4,311	25·615	−·025	25·577	25·697	9th	25·514	26th	69·2	54·9	84·5	−6·4	56·8	−7·2	70·7	−6·8	27·7	93·8	21st	45·2	12th
	Kalat	6,630	23·698		23·660	23·774	18th	23·624	12th	56·5	46·7	75·2	−8·4	46·6		60·9		28·6	83·7	22nd	33·0	14th
	Dalbandin	2,772	27·059		27·023	27·173	9th	26·948	28th	72·7	56·3	84·4		63·3		78·3		32·1	102·8	21st & 22nd.	53·0	14th & 17th.
	Pasni		29·766		29·726	29·912	18th	29·668	21st	82·0	76·0	96·9		67·1		82·0		29·9	107·8	10th	60·9	1st
	Panjgur		26·668		26·626	26·757	9th	26·568	28th	72·3	56·7	92·7		65·1		78·9		27·6	101·0	22nd	59·0	16th
	Seistan(e)		28·089			28·290	9th	27·900	28th	70·4	59·7	89·2		62·8		75·9		26·4	97·7	22nd	42·1	9th
	Hill stations excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·375	0	24·351	24·507	17th	24·174	12th	62·3	50·4	73·1	−5·9	49·2	−6·5	61·1	−6·2	23·9	83·0	22nd	39·3	12th
	Cherat	*4,956*	25·619	+·012	25·587	25·769	17th	25·396	11th	67·2	52·0	77·8	−9·3	59·9	−7·2	68·9	−8·3	17·9	90·2	22nd	50·8	27th
	Drosh (c)		24·998			25·150	17th	24·750	11th	59·2	49·3	72·7	−9·0	53·2	−5·4	63·0	−7·2	19·5	86·1	22nd	27·0	12th
	Murree	6,181	23·914	−·016	23·881	24·061	17th	23·754	6th	59·2	48·2	68·2	−7·9	53·9	−10·6	61·1	−9·3	14·3	79·6	21st	41·4	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 of which exceed 3,200 feet.

(e) Aneroid.

* Mean of 13 days.
† „ „ 23 „

B—*continued.*

stations in India, etc., in May 1920—*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 1920 to 31st	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	0	0	0	2	13	14	N 66° W	N 74° W	6·5	6·2	+0·3	86	+21	55	+ 2	·650	+·028	3·2	−1·1	1	−2·3	1·68	1·95	−0·27	1·68	1·95	−0·27	1·68	Bellary.
9	0	1	0	0	0	3	11	7	N 79° W	N 84° W	2·7			56	+20	64	+ 8	·763	+·051	1·9	−1·5	2	−0·2	0·45	0·96	−0·51	0·45	0·96	−0·51	0·18	Kurnool.
10	1	0	0	4	5	2	4	5	S 52° W	S 69° W	2·2	6·4	−4·2	27	− 5	68	+ 5	·884	+·022	5·5	+0·7	3	+2·1	2·68	0·58	+2·10	2·68	0·58	+2·10	1·75	Nellore.
0	1	0	0	3	14	7	4	2	S 24° W	S 38° W	5·9	6·5	−0·6	69	+28	75	− 3	·966	−·099	5·8	+0·9	3	+1·1	1·33	1·18	+0·15	1·33	1·18	+0·15	0·98	Masulipatam.
12	1	2	0	3	1	4	5	3	S 78° W	S 56° W	5·5	5·9	−0·4	20	−34	78	+ 5	·963	+·005	6·5	+1·8	8	+5·7	4·64	1·23	+3·41	4·64	1·23	+3·41	1·78	Cocanada.
3	0	0	0	1	0	9	15	3	S 77° W	S 72° W	8·8			76	− 7	71	0	·907	+·014	6·2	+0·4	3	+0·1	1·30	2·10	−0·80	1·30	2·10	−0·80	0·69	Waltair (Vizagapatam.)
8	1	0	0	0	2	9	10	3	S 75° W		7·3			61		77		·954		3·8		5	+1·8	3·83	3·20	+0·63	3·83	3·20	+0·63	1·51	Calingapatam.
0	1	5	2	1	10	12	0	0	S 9° W	S 30° W	10·3	12·8	−2·5	40	−19	80	− 2	·972	+·004	3·4	+1·5	2	−1·1	0·94	1·90	−0·96	0·94	1·90	−0·96	0·65	Gopalpur.
																															Bay Stations.
3	0	0	1	1	5	20	1	0	S 33° W					78		81		·978		3·5		4	−0·1	2·60	2·33	+0·27	2·60	2·33	+0·27	1·58	P. V. Fraser.
3	0	0	0	0	5	6	2	15	N 86° W	S 73° W	8·0	5·4	+2·6	56	− 5	82	− 4	·895	−·058	5·7	−1·4	13	−3·0	9·34	15·84	−6·50	9·34	15·84	−6·50	1·77	Port Blair.
1	0	0	0	1	3	11	13	2	S 65° W		11·1			76		84	+ 4	·953	+·021	5·7	−1·5	8	−2·7	5·21	8·74	−3·53	5·21	8·74	−3·53	1·45	Table Island.
																															Kashmir.
22	0	0	0	1	0	8	0	0	S 40° W		1·7			26		51		·316		3·9		3	−1·0	1·50	2·57	−1·07	1·50	2·57	−1·07	0·78	Muzaffarabad.
8	1	2	3	3	5	4	0	5	S 3° E	S 49° E	2·9	3·1	−0·2	13	−23	73	−10	·319	−·117	4·9	+1·4	6	+0·4	2·75	2·44	+0·31	2·75	2·44	+0·31	1·26	Srinagar.
																															Gulmarg.
10	1	0	0	1	1	2	5	2	S 84° W		2·0			23		93*	+20	·226*	+·006	5·2	+1·4	6	+0·6	2·85	2·73	+0·12	2·85	2·73	+0·12	1·61	Dras.
19	0	1	0	0	10	0	1	0	S 2° W	S 44° W	2·3	2·3	0	30	−15	43†	+ 2	·121†	−·010	4·7	+0·1	1	+0·3	0·18	0·20	−0·02	0·18	0·20	−0·02	0·13	Leh.
3	0	6	4	1	2	5	7	3	N 89° W		6·6			12		42	−13	·173	−·087	5·0	+0·5	1	−1·5	0·17	1·20	−1·03	0·17	1·20	−1·03	0·11	Skardu.
7	0	0	0	0	1	2	0	1	S 51° W		0·9			10		60	+13	·342	+·028	5·3	+0·9	3	+0·7	0·62	0·80	−0·18	0·62	0·80	−0·18	0·14	Gilgit.
																															Baluchistan.
8	2	3	0	0	1	2	3	2	N 50° W		5·9			17		33		·214		1·4		3	+2·2	0·48	0·40	+0·08	0·48	0·40	+0·08	0·16	Fort Sandeman.
7	0	0	0	2	1	0	1	0	S 10° E	N 80° W	2·8	2·4	+0·4	8	+ 4	46	+ 2	·240	−·084	1·2	+0·2	2	+1·0	0·44	0·35	+0·09	0·44	0·35	+0·09	0·34	Quetta.
3	1	0	2	2	7	6	0	0	S 4° W	S 32° W	5·2	5·5	−0·3	40	− 6	38	+ 3	·274	−·053	2·1	+1·3	0	−0·3	0·08	0·09	−0·01	0·08	0·09	−0·01	0·08	Chaman.
4	1	0	2	0	0	0	1	3	N 19° W	S 34° W	6·4			10	−27	47	+ 3	·220	−·072	0·9		1	+0·3	0·21	0·22	−0·01	0·21	0·22	−0·01	0·21	Kalat.
6	1	6	1	2	2	8	4	1	S 50° W		6·5			17		32		·254		1·6		1	+1·0	0·24	0·02	+0·22	0·24	0·02	+0·22	0·24	Dalbandin.
2	2	0	4	1	0	0	12	10	N 60° W		6·5			53		76		·819		0·3		0	0	0·10	0	+0·10	0·10	0	+0·10	0·07	Pasni.
4	2	7	3	0	1	1	0	3	N 35° E		4·8			30		36		·281		0·5		0		0·12			0·12			0·09	Panjgur.
1	1	1	4	0	0	0	0	24	N 33° W		9·7			76		51		·387		0·8		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
1	0	0	0	0	0	0	0	0	Calm		0·7			(a)		44	− 2	·243	−·067	2·7	+0·3	4	−3·2	1·94	2·45	−0·51	1·94	2·45	−0·51	0·75	Parachinar.
8	0	0	0	0	0	0	0	0	N	N 6° W	3·1	8·8	−5·7	26	−21	34	− 3	·218	−·079	0·3	−1·6	2	−0·6	0·95	1·58	−0·63	0·95	1·58	−0·63	0·63	Cherat.
4	0	2	3	0	0	1	0	1	N 66° E		2·9			10		48	−12	·239	−·127	2·5	+0·2	1	−3·3	0·51	2·10	−0·59	0·51	2·10	−0·59	0·25	Drosh.
0	1	1	3	2	0	0	1	3	N 41° E	N 7° E	2·7	5·8	−3·1	10	− 5	46	+ 5	·224	−·045	2·7	+0·2	6	+1·0	2·56	2·87	−0·31	2·56	2·87	−0·31	1·24	Murree.

(a) Indeterminate.
* Mean of 13 days.
† „ „ 23 „

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. 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
	Hill stations, excluding Kashmir and Baluchistan—*concld.*																					
	Simla	7,232	23·056	−·017	23·018	23·151	18th	22·967	12th	57·9	46·2	65·5	−7·5	52·4	−5·9	59·0	−6·7	13·1	74·5	5th	42·3	17th
	Chakrata	7,072	23·279		23·239	23·365	18th	23·108	12th	62·0	49·4	72·0	−2·2	51·0	−5·8	61·5	−4·0	21·0	84·0	9th	44·5	17th
	Mukteswar	7,592	22·809	−·026	22·768	22·891	16th	22·672	7th	58·1	46·3	68·7	−6·3	48·2	−7·2	58·4	−6·7	20·5	80·7	9th	37·6	18th
	Darjiling	7,432	23·904	−·032	22·859	22·992	23rd	22·741	6th	56·4	53·1	66·4	+2·4	50·2	−1·9	58·3	+0·3	16·2	77·4	31st	42·4	21st
	Kalimpong		25·907		25·861	26·002	15th	25·717	6th	65·6	61·1	75·0		59·9		67·5		15·1	83·0	31st	53·5	21st
	Shillong	4,920	25·073	−·007	24·025	25·152	15th	24·883	7th	66·6	59·4	74·4	0	57·8	−1·0	66·1	−0·5	16·6	79·9	31st	52·1	22nd
	Cherrapunji	4,309	25·633	−·007	25·584	25·706	15th	25·450	7th	66·5	62·7	73·2	+0·9	59·8	−0·2	66·5	+0·3	13·4	77·9	31st	54·4	11th
	Netarhat									78·8	60·3	90·0		62·9		76·4		27·1	98·0	10th	52·8	24th
	Maymyo	3,546	26·349	−·031	26·294	26·405	9th & 15th.	26·174	5th	71·1	66·1	80·9	−1·8	63·7	−0·5	72·3	−1·1	17·2	88·2	1st	57·0	21st
	Pachmarhi	3,528	26·384	−·004	26·331	26·490	18th	26·293	5th	78·2	62·6	93·4	−2·2	70·4	−4·9	81·9	−3·5	23·0	100·0	9th	62·6	15th
	Mount Abu	3,945	26·006	+·016	25·956	26·125	18th	25·904	11th	74·1	58·9	83·8	−4·4	66·7	−4·5	75·3	−4·5	17·1	92·8	5th	54·2	27th
	Mercara	3,781	26·204	−·006	26·137	26·270	16th	26·140	2nd	68·1	65·2	80·4	0	62·9	−1·6	71·7	−0·8	17·5	83·4	24th	60·6	18th
	Ootacamund	7,327	23·071	+·021	23·007	23·128	18th	23·017	2nd	63·3	56·0	70·4	+0·5	51·8	−0·8	61·1	−0·1	18·6	75·5	13th	49·0	27th
	Kodaikanal	7,888	22·839	+·008	22·774	22·890	17th	22·779	2nd	61·9	55·2	70·1	+1·1	54·5	−0·4	62·3	+0·3	15·6	75·5	9th	50·2	27th
	Extra India.																					
	Singapore (*a*)	10	29·832	−·093	29·763	29·909	9th	29·770	25th	84·7		89·5	+0·8	75·8	+0·7	82·7	+0·7	13·7	92·0	8th & 18th	3·5	10th, & 1
	Penang (*a*)	17	29·817	−·093	29·759	29·879	14th	29·761	6th	83·2		90·0	−0·7	73·2	−1·5	81·6	−1·1	16·8	93·0	1st, 4th & 5th.	71·0	13th 14th
	Trincomalee	99	29·752	+·015	29·779	29·840	18th	29·600	3rd	79·9	75·2	93·9	+0·8	76·9	−1·8	85·4	−0·5	17·0	98·0	23rd	67·0	3rd
	Colombo	24	29·878	+·001	29·828	29·940	17th	29·791	2nd	80·1	77·1	87·7	−0·4	78·2	+0·1	82·9	−0·1	9·5	88·7	22nd	72·8	29th
	Hambantota	64	29·815		29·805	29·885	18th	29·712	3rd	79·6	76·5	87·4		78·2		82·8		9·2	91·6	6th & 7th.	72·6	2nd
	Minicoy	7	29·931			29·999	18th	29·839	1st													
	Amini Divi	13	29·894	+·008	29·835	29·967	15th	29·827	2nd	86·7	77·7	93·2	+2·4	81·3	+0·8	87·3	+1·6	11·9	96·4	29th	74·0	31st
	Gyantse	13,110																				
	Phariong	14,400																				
	Gangtok	5,667	24·211	−·210	24·166	24·298	15th	24·041	6th	60·3	56·2	71·4	−1·0	55·8	+5·3	63·6	+2·1	15·6	78·3	31st	50·5	11th
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·397	−·153		25·555	16th	25·245	5th	62·6	55·5	73·3	−7·7	53·3	−4·4	63·3	−6·1	20·0	90·3	31st	42·3	13th
	Kabul (*c*)																					
	Meshed	3,104								60·3	54·1	75·8	−2·5	49·7	−5·8	62·7	−4·1	26·1	88·4	29th	40·0	11th 13
	Jask	13	29·752	−·007	29·718	29·880	18th	29·632	28th	83·7	77·0	94·7	+2·5	77·0	−1·4	85·9	+0·5	17·7	100·5	10th	71·3	1st
	Muscat	20	29·790	+·037	29·758	29·887	9th	29·676	29th	90·1	77·8	97·1	+3·4	85·4	−0·3	91·3	+1·5	11·7	107·1	7th	79·8	1st
	Bushire	14	29·784	−·007	29·760	29·900	9th	29·657	26th	83·2	75·0	90·4	+1·3	76·9	+1·3	83·7	+1·3	13·5	96·1	6th	70·1	1st
	Ispahan (*c*)	5,817	24·277	−·103		24·440	10th	24·130	27th	62·1	52·4	80·2	−2·2	54·8	+1·2	67·5	−0·5	25·4	87·4	26th & 27th.	45·2	2nd
	Tehran (*c*)	4,002	25·706	−·175		25·860	10th	25·520	28th	67·3	55·7	79·9	−2·9	58·2	+0·8	69·0	−1·1	21·7	90·5	26th	48·0	5th
	Baghdad	125	29·658	−·069	29·759	29·832	9th	29·487	29th	75·3	60·9	95·5	+1·8	70·4	+2·1	82·9	+1·9	25·1	105·9	24th	58·5	1st
	Aden	94	29·762	+·003	29·808	29·866	10th	29·721	23rd	83·9	78·6	91·6	−1·2	81·5	+0·2	86·6	−0·5	10·1	90·0	26th	77·7	12th
	Zanzibar	72	30·000	−·005	29·998	30·052	4th	29·925	24th	75·7	74·7	82·6	+0·1	75·2	−0·4	78·9	−0·1	7·4	85·1	6th	71·0	18th

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.

B—*concluded.*

tations in India, etc., in May, 1920—*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 hours.	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 1920.	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.*
																42	— 2	·192	—·062	3·3	+0·8	9	+4·1	5·96	2·70	+3·26	5·96	2·70	+ 3·26	1·16	Simla.
4	3	8	10	3	1	2	0	0	N 75° E	N 21° E	7·9	5·7	+2·2	53	+43	42	— 6	·222	—·057	1·8	—0·2	6	+0·8	1·36	2·52	—1·16	1·36	2·52	— 1·16	0·39	Chakrata.
5	0	1	9	2	2	1	10	1	S 7° W			7·0		9		43	— 5	·195	—·077	3·3	+0·8	7	+1·6	4·31	2·16	+2·15	4·31	2·16	+ 2·15	1·81	Mukteswar.
15	1	2	0	1	0	6	5	1	S 76° W	S 59° W	4·1	5·0	—0·9	27	+16	82	— 6	·370	—·047	6·9	+0·1	13	—1·2	10·84	8·90	+1·94	10·84	8·90	+ 1·94	2·53	Darjiling.
																78		·492		2·8		?		?						?	Kalimpong.
20	0	0	0	0	4	6	1	0	S 32° W		3·6			33		66	— 6	·428	—·043	4·8	—0·5	14	—3·7	6·95	11·12	—4·17	6·95	11·12	— 4·17	0·96	Shillong.
14	0	0	0	1	3	8	5	0	S 47° W		4·9			46		81	— 5	·526	—·024	6·1	—0·6	17	—4·5	35·56	43·49	—7·93	35·56	43·49	— 7·93	14·50	Cherrapunji.
0	2	4	0	3	1	5	9	7	N 77° W		5·5			42		35		·315		1·5		5		3·55						1·35	Netarhat.
19	0	0	0	0	2	9	1	0	S 41° W		1·5			33		79	— 1	·592	—·049	5·0	+0·3	5	—7·4	8·73	10·16	—1·43	8·73	10·16	— 1·43	3·46	Maymyo.
2	3	1	1	3	0	4	10	7	N 75° W	N 81° W	5·6	5·5	+0·1	49	—14	43	+ 8	·392	0	1·1	—0·6	1	—0·3	0·15	0·52	—0·37	0·15	0·52	— 0·37	0·15	Pachmarhi.
2	5	1	0	3	2	11	1	6	S 80° W	S 72° W	5·9	7·9	—2·0	33	—35	43	+ 6	·330	—·011	2·0	+1·3	9	+7·9	6·81	0·68	+6·13	6·81	0·68	+ 6·13	3·10	Mount Abu.
1	1	1	0	0	0	0	13	15	N 61° W	N 45° W	3·5	3·9	—0·4	82	+17	85	— 1	·584	—·027	5·1	—1·2	4	—4·6	4·42	5·58	—1·16	4·42	5·58	— 1·16	2·10	Mercara.
4	1	3	10	6	2	1	3	1	S 34° W		2·4			13		65	+ 2	·373	+·008	5·4	+1·1	10	—2·4	4·66	6·96	—2·30	4·66	6·96	— 2·30	1·11	Ootacamund.
1	7	7	4	5	1	0	0	6	N 35° E		6·5			49		66	— 1	·370	+·016	4·3	+0·1	7	—4·0	3·68	6·01	—2·33	3·68	6·01	— 2·33	1·59	Kodaikanal.
																															Extra India.
7	0	3	1	8	3	7	0	2	S 9° E					30						7·0	+2·1	9	—0·1	3·74	6·14	—2·40	3·74	6·14	— 2·40	0·85	Singapore.
0	5	22	0	4	0	0	0	0	N 46° E					82						5·8	+4·4	13	+1·3	11·30	9·54	+1·76	11·30	9·54	+ 1·76	2·72	Penang.
1	0	0	0	0	0	29	1	0	S 47° W	S 45° W	7·4	8·8	—1·4	96	— 1	79	— 2	·812	—·103	5·1	+2·5	4	+0·7	2·84	2·33	+0·51	2·84	2·33	+ 0·51	1·04	Trincomalee.
11	0	0	0	3	1	13	3	0	S 40° W	S 45° W	4·0	6·7	—2·7	53	—25	87	+ 4	·886	—·044	6·0	—0·5	10	—3·1	8·74	10·92	—2·18	8·74	10·92	— 2·18	2·85	Colombo.
1	0	0	0	0	0	11	18	1	S 77° W		10·1			89		87		·869		3·0		3		3·08	3·21	—0·13	3·08	3·21	— 0·13	1·45	Hambantota.
0	6	1	0	0	0	1	5	18	N 43° W	N 69° W	3·5	7·4	—3·9	84	+ 8					3·8	—1·4	9	+ 0·4	8·00	5·78	+2·22	8·00	5·78	+ 2·22	2·62	Minicoy.
0	7	1	1	0	0	0	5	17	N 37° W		7·3			81		65	—11	·827	—·104	4·3	—1·5	1	— 3·0	0·21	2·96	—2·75	0·21	2·96	— 2·75	0·21	Amini Divi.
																									0·45			0·45			Gyantse.
																									2·05			2·05			Pharijong.
29	1	0	1	0	0	0	0	0	N 45° E		1·2			3		79	— 3	·412	—·062	4·3	+0·3	17	— 3·1	16·29	19·11	—2·82	16·29	19·11	— 2·82	6·95	Gangtok.
																															Gartok.
22	3	1	1	0	0	0	2	2	N 22° W	N 50° W	1·7	3·3	—1·6	19	+ 6	66	+22	·373	+·086	4·7	+1·6	4	+ 2·8	1·88	0·70	+1·18	1·88	0·70	+1·18	1·08	Kashgar.
										N 34° W															0·78			0·78			Kabul.
31	0	0	0	0	0	0	0	0	Calm		1·3			(a)		68	+ 8	·354	—·063	3·9	+1·3	8	+4·7	2·85	1·28	+1·57	2·85	1·28	+ 1·57	1·05	Meshed.
1	4	1	14	1	0	0	3	7	N 40° E	N 60° E	7·5	8·0	—0·5	37	+31	73	+ 5	·842	+·029	1·4	+0·9	0	0	0	0	0	0	0	0	0	Jask.
11	1	0	0	5	0	1	1	12	N 51° W	N 36° W	2·8	3·1	—0·3	27	—15	58	— 1	·789	—·019	0·9	+0·2	0	0	0	0	0	0	0	0	0	Muscat.
6	6	4	0	1	0	1	3	10	N 27° W	N 25° W	6·7	6·9	—0·2	53	— 2	68	+ 6	·762	+·084	3·6	+1·4	0	0	0	0·02	—3·02	0	0·02	—0·02	0	Bushire.
28	0	0	0	0	0	2	1	0	S 63° W	N 58° W	1·5	3·4	—1·9	6	—42	53	— 8	·299	—·102	1·1	—1·1	0	—0·8	0·01	0·23	—0·22	0·01	0·23	— 0·22	0·01	Ispahan.
26	1	1	0	0	1	2	0	0	S 45° W	S 46° W	3·9	2·6	+1·3	3	—13	48	+ 1	·314	—·022	3·1	+0·6	2	—0·1	0·68	0·48	+0·20	0·68	0·48	+ 0·20	0·31	Tehran.
7	2	4	2	2	2	1	5	6	N 37° W	N 1° E	4·8	2·9	+1·9	23	—22	40	—12	·349	—·133	3·7	+2·1	0	—0·7	0·09	0·21	—0·12	0·09	0·21	—0·12	0	Baghdad.
11	4	14	1	1	0	0	0	0	N 41° E	S 87° E	8·7	8·2	+0·5	56	+17	78	+ 4	·906	—·009	4·8	+1·5	0	—0·3	0	0·12	—0·12	0	0·12	—0·12	0	Aden.
1	0	0	0	1	16	13	0	0	S 19° W	S 7° W	5·4	5·9	—0·5	90	+ 3	87	+ 1	·816	+·002	7·1	+0·4	16	+4·1	15·09	10·97	+4·12	15·09	10·97	+4·12	5·24	Zanzibar.

(a) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in May 1920.

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	75·0	72·0	86·5	−0·3	54·2	−13·1	70·3	−6·7	32·3	94·7	31st	47·9	22nd	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	77·1	72·6	97·5	+9·6	66·1	−3·8	81·8	+2·9	31·4	99·2	15th & 31st.	65·6	10th, 21st & 29th.	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	74·5	69·8	88·8	−0·9	60·9	−8·3	74·9	−4·6	27·9	90·5	6th	51·0	3rd	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	73·9	70·5	86·6	+0·3	68·2	+0·1	77·4	+0·2	18·4	95·1	31st	62·4	3rd	...	...	...	...	...	...	...	...	...	...	...
	Dikom	74·7	71·2	86·1	−0·1	68·7	−1·3	77·4	−0·7	17·4	95·2	30th	63·6	3rd	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	75·1	73·2	84·9	−0·9	66·4	...	75·7	...	18·5	94·9	31st	62·2	3rd & 11th.	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	77·4	73·8	88·6	−1·5	71·6	−0·3	80·1	−0·9	17·0	96·8	31st	65·6	11th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	75·5	71·2	84·8	−1·4	68·9	−2·2	76·9	−1·8	15·9	93·9	31st	62·3	12th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	79·1	73.2	90·7	...	68·1	...	79·4	...	22·6	98·9	31st	60·0	19th	...	...	...	...	...	...	...	...	...	...	...
	Messa	81·1	74·9	89·9	−1·7	69·4	+0·7	79·7	−0·5	20·5	96·7	31st	64·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	70·8	69·9	85·9	+0·9	64·5	−4·3	75·2	−1·7	21·4	93·1	31st	59·1	19th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	83·8	79·7	94·8	+3·9	73·1	−0·6	83·9	+1·7	21·7	97·8	31st	69·9	1st	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	86·6	79·0	94·1	+1·5	74·7	+1·3	84·4	+1·4	19·4	100·5	8th & 9th.	64·8	11th & 21st.	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·8	79·0	96·2	+0·5	75·1	+1·8	85·7	+1·1	21·1	104·2	8th	64·1	11th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	71·7	70·6	89·0	−1·5	67·4	−2·5	78·2	−2·0	21·6	98·1	31st	61·3	22nd	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	79·2	72·7	88·1	−0·7	67·5	−2·6	77·8	−1·7	20·6	94·6	31st	59·0	20th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	79·8	71·9	87·7	−0·6	67·1	−3·1	77·4	−1·9	20·6	93·6	31st	60·0	23rd	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	84·4	73·5	101·9	...	75·1	...	88·5	...	26·8	112·2	7th	65·8	11th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C,

and fifth class stations in India, etc., in May 1920.

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 1920.	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.
...	...	...	...	...	86	− 6	·750	−·051	...	...	19	+4·1	11·51	9·83	+1·68	11·51	9·83	+1·68	2·10	Bishnath.
...	...	...	...	...	80	− 7	·742	−·056	...	...	14	−0·6	6·46	9·72	−3·26	6·46	9·72	−3·26	1·22	Borjuli.
...	...	...	...	...	80	− 4	·706	−·093	...	...	14	−2·8	16·83	16·85	−0·02	16·83	16·85	−0·02	3·30	Chandkhira.
...	...	...	...	...	85	− 7	·706	−·076	...	...	16	+3·4	12·61	8·78	+3·83	12·61	8·78	+3·83	1·94	Doom Dooma.
...	...	...	...	...	84	− 3	·719	−·034	...	...	14	−0·5	11·22	10·86	+0·36	11·22	10·86	+0·36	1·40	Dikom.
...	...	...	...	...	91	+ 1	·791	−·008	...	...	9	−4·8	6·56	9·00	−2·44	6·56	9·00	−2·44	1·97	Golaghat.
...	...	...	...	...	84	− 3	·689	−·108	...	...	16	−0·2	20·74	16·69	+4·05	20·74	16·69	+4·05	5·27	Hailakandi.
...	...	...	...	...	81	− 5	·710	−·071	...	...	9	−5·7	8·88	10·94	−2.06	8·88	10·94	−2·06	2·69	Jorehat.
...	...	...	...	...	71	...	·691	...	...	...	5	−4·9	1·40	5·55	−4·15	1·40	5·55	−4·15	0·31	Lumding.
...	...	...	...	...	74	− 7	·786	−·017	...	...	13	−1·6	7·40	8·49	−1·09	7·40	8·49	−1·09	1·45	Messa.
...	...	...	...	...	95	+ 4	·730	+·019	...	...	17	+2·6	9·35	11·09	−1·74	9·35	11·09	−1·74	1·66	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	6	−6·2	7·69	12·56	−4·87	7·69	12·56	−4·87	5·30	Comilla.
...	...	...	...	...	83	+ 1	·960	+·085	...	...	7	−6·3	8·39	14·72	−6·33	8·39	14·72	−6·33	3·08	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	9	−2·2	11·50	9·13	+2·37	11·50	9·13	+2·37	3·95	Faridpur.
...	...	...	...	...	70	− 9	·887	+·001	...	...	7	−3·5	9·75	8·50	+1·25	9·75	8·50	+1·25	7·48	Goalundo.
...	...	...	...	...	84	+ 2	·942	+·056	...	...	6	−3·7	7·72	7·65	+0·07	7·72	7·65	+0·07	2·91	Pabna.
...	...	...	...	...	...	...	...	...	...	...	9	−1·7	5·90	8·41	−2·51	5·90	8·41	−2·51	2·20	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	3	−4·7	2·42	5·73	−3·31	2·42	5·73	−3·31	1·59	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	4	−1·9	2·13	4·53	−2·40	2·13	4·53	−2·40	1·35	Malda.
...	...	...	...	...	...	...	...	...	...	...	8	−4·3	5·29	11·47	−6·18	5·29	11·47	−6·18	1·22	Rangpur.
...	...	...	...	...	94	+ 5	·733	−·079	...	...	10	−5·4	4·09	15·51	−11·42	4·09	15·51	−11·42	0·70	Dam Dim.
...	...	...	...	...	72	−10	·724	−·123	...	...	16	+0·8	7·58	14·92	−7·34	7·58	14·92	−7·34	2·53	Kalchini.
...	...	...	...	...	67	−16	·675	−·094	...	...	11	−5·4	5·78	14·60	−8·82	5·78	14·60	−8·82	1-12	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	16	+1·3	15·46	16·22	−0·76	15·43	16·22	−0·76	2·95	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	4	−4·3	4·68	7·14	−2·46	4·68	7·14	−2·46	3·60	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	4	−2·0	1·23	4·46	− 3·23	1·23	4·46	−3·23	0·65	Bankura.
...	...	...	...	...	59	...	·683	...	3·7	...	3	−2·4	1·10	4·07	− 2·97	1·10	4·07	−2·97	0·76	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	4	+0·1	2·24	2·21	+ 0·03	2·24	2·21	+0·03	1·27	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	1	−3·2	2·18	3·24	− 1·06	2·18	3·24	−1·06	2·05	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	1	−2·6	0·18	2·50	− 2·32	0·18	2·50	−2·32	0·17	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	4	−0·2	1·81	2·87	− 1·06	1·81	2·87	−1·06	1·04	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−1·9	0·08	1·53	− 1·45	0·08	1·53	−1·45	0·08	Chapra.
...	...	...	...	...	...	...	...	...	...	...	1	−1·1	0·14	1·48	− 1·34	0·14	1·48	−1·34	0·14	Arrah.
...	...	...	...	...	...	...	...	...	...	...	1	−0·3	0·34	0·77	− 0·43	0·34	0·77	−0·43	0·19	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	84·7	68·1	99·2	...	73·1	...	86·1	...	26·1	104·8	6th	62·0	23rd	19	2	2	0	1	0	0	2	5	N 27° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	82·6	77·3	103·1	...	77·5	...	90·3	...	25·6	107·6	10th	70·4	26th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	87·0	79·0	103·8	...	79·8	...	91·8	...	24·0	115·4	8th	68·2	18th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	78·2	67·7	94·8	...	70·6	...	82·7	...	24·2	101·0	8th, 9th and 15th	64·0	5th	...	...	...	...	...	...	...	...	...	...	
	Bay Stations.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	80·3	62·5	93·4	...	71·8	...	82·6	...	21·6	102·1	9th	62·2	28th	5	16	7	1	0	1	0	0	1	N 13° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	47·5	38·5*	63·1	...	29·7	...	46·4	...	33·4	75·2	31st	21·1	13th	2	0	0	0	6	2	11	0	10	S 58° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	74·1	67·8	88·9	+1·0	68·0	−2·1	78·5	−0·5	20·9	96·1	1st	59·5	21st	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	67·4	63·2	72·7	0	56·3	−4·4	64·5	−2·2	16·4	82·5	30th	43·9	11th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	61·3‡	−6·9	40·9†	−5·8	51·0‡	−6·3	20·4	71·9	9th	32·7	15th	9	1	1	7	4	6	2	0	1	S 45° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin†	...	...	80·0	−8·4	44·6	−6·3	62·3	−7·8	35·4	86·8	22nd	32·2	14th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.
† Mean of 30 days.
‡ Mean of 26 days.

C—*continued.*

and fifth class stations in India, etc., in May 1920—*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 1920.	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.
...	...	...	...	...	...	...	...	...	...	...	3	+1·5	1·23	0·59	+ 0·64	1·23	0·59	+0·64	0·74	Meerut.
...	...	...	...	...	...	...	...	...	...	...	2	−1·4	1·86	1·42	+ 0·44	1·86	1·42	+0·44	1·56	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·75	...	...	0·75	...	...	0·75	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	6	+4·4	4·21	0·73	+ 3·48	4·21	0·73	+3·48	1·63	Udaipur.
																				XII.—Central Provinces.
1·3	...	...	33	...	43	...	·493	...	2·1	...	2	+0·7	1·28	0·46	+ 0·82	1·28	0·46	+0·82	0·80	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−1·1	0	0·50	− 0·50	0	0·50	−0·50	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	−0·6	0·79	1·42	− 0·63	0·79	1·42	−0·63	0·39	Tinnevelly.
...	...	...	...	...	78	...	·872	...	3·5	...	3	−1·4	2·50	2·22	+ 0·28	2·50	2·22	+0·28	1·00	Anantapur.
...	...	...	...	...	71	...	·891	...	0	...	5	+2·7	5·13	1·49	+ 3·64	5·13	1·49	+3·64	1·89	Guntur.
...	...	...	...	...	58	...	·558	...	...	...	1	...	0·48	...	...	0·48	...	...	0·48	Koraput.
																				Bay Stations.
...	...	...	...	...	...	...	...	...	...	...	10	−4·9	5·14	13·08	− 7·94	5·14	13·08	−7·94	1·55	Car Nicobar.
																				Kashmir.
...	...	...	71	...	36	...	·348	...	2·7	...	5	+3·2	2·31	0·55	+ 1·76	2·31	0·55	+1·76	0·88	Jammu.
...	...	...	...	...	...	...	...	...	...	...	13	+4·2	7·24	5·06	+ 2·18	7·24	5·06	+2·18	2·83	Sonamarg.
...	...	...	42	...	40*	...	132*	...	4·4	...	2	−0·1	0·71	1·09	− 0·38	0·71	1·09	−0·38	0·29	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	2	+1·5	1·20	0·19	+ 1·01	1·20	0·19	+1·01	0·96	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	72	−1	·598	−·108	...	...	11	−2·3	6·61	11·43	−4·82	6·61	11·43	−4·82	1·66	Panighatta.
...	...	...	...	...	80	+1	·532	+·021	...	...	7	−8·2	3·18	11·53	−8·35	3·18	11·53	−8·35	1·22	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	19	−5·2	14·90	18·98	−4·08	14·90	18·98	−4·08	1·50	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	15	+2·0	7·71	5·84	+1·87	7·71	5·84	+1·87	1·25	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	19·09	..	...	19·09	...	...	Bingim.
...	...	...	...	...	...	...	...	...	...	...	5	...	3·76	...	...	3·76	...	...	1·45	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	4	−0·2	1·50	2·31	−0·81	1·50	2·31	−0·81	0·82	Mussooree.
...	...	...	36	...	...	...	...	...	3·3	+0·3	4	+1·8	3·29	0·91	+2·38	3·29	0·91	+2·38	1·47	Poo.
...	...	...	...	...	...	...	...	...	...	...	5	−0·6	2·93	2·43	+0·50	2·93	2·43	+0·50	1·35	Kailang.
...	...	...	...	...	...	...	...	...	0·9	...	0	−0·5	0·01	0·16	−0·15	0·01	0·16	−0·15	0·01	Pishin.

* Mean of 29 days.

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 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.																								
	Chumbi	54·7	53·6	63·8	...	47·4	...	55·6	...	16·4	72·0	27th	30·2	1st	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	88·2	67·8	103·0	...	75·1	...	89·1	...	27·9	114·0	25th	66·0	1st	0	17	1	0	1	9	0	1	0	N. 8° E.*	...

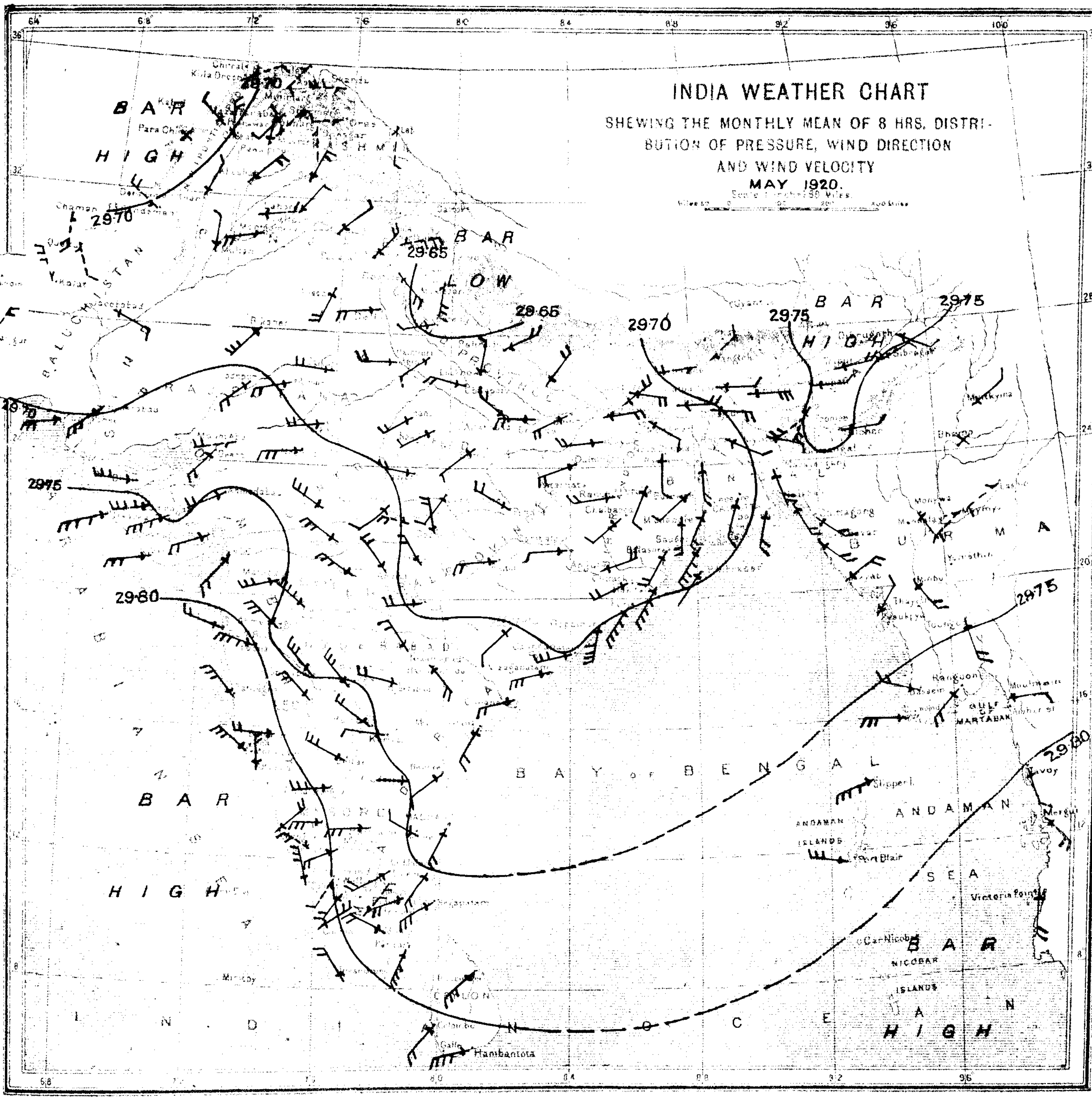
* 2 winds variable.

C—*concluded.*

nd fifth class stations in India, etc., in May 1920—*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 1920.	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.
...	...	...	...	...	94	...	·404	...	4·3	...	13	+1·1	4·65	4·24	+0·41	4·65	4·24	+0·41	0·90	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	15	−4·1	19·58	17·26	+2·32	19·58	17·26	+2·32	7·07	Pemba.
...	...	...	26	...	36	...	·408	...	...	...	0	...	0	...	...	0	...	...	0	Abadan.

SGPI-21-IV-5-(11)—13-12-23—325.

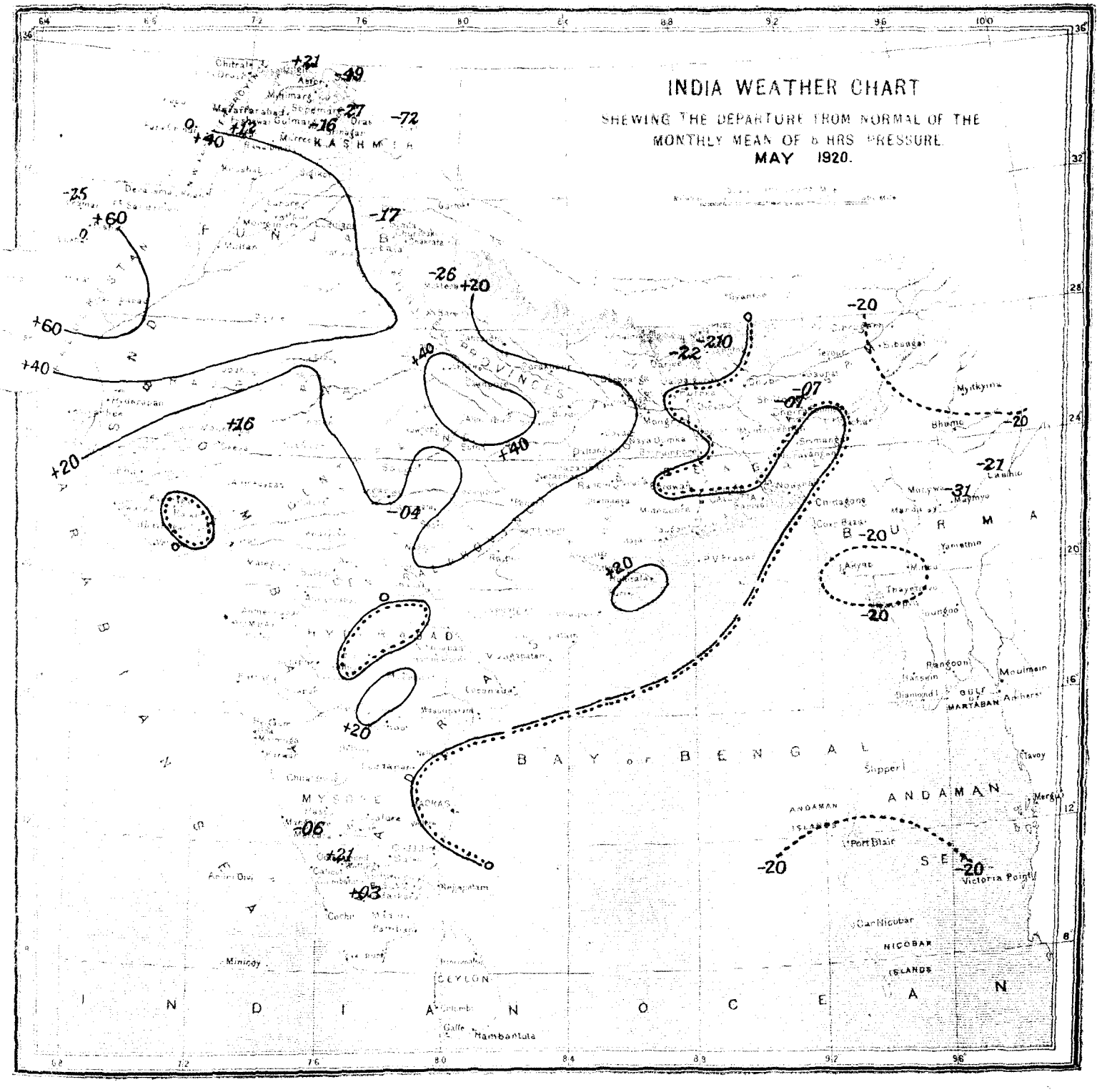


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

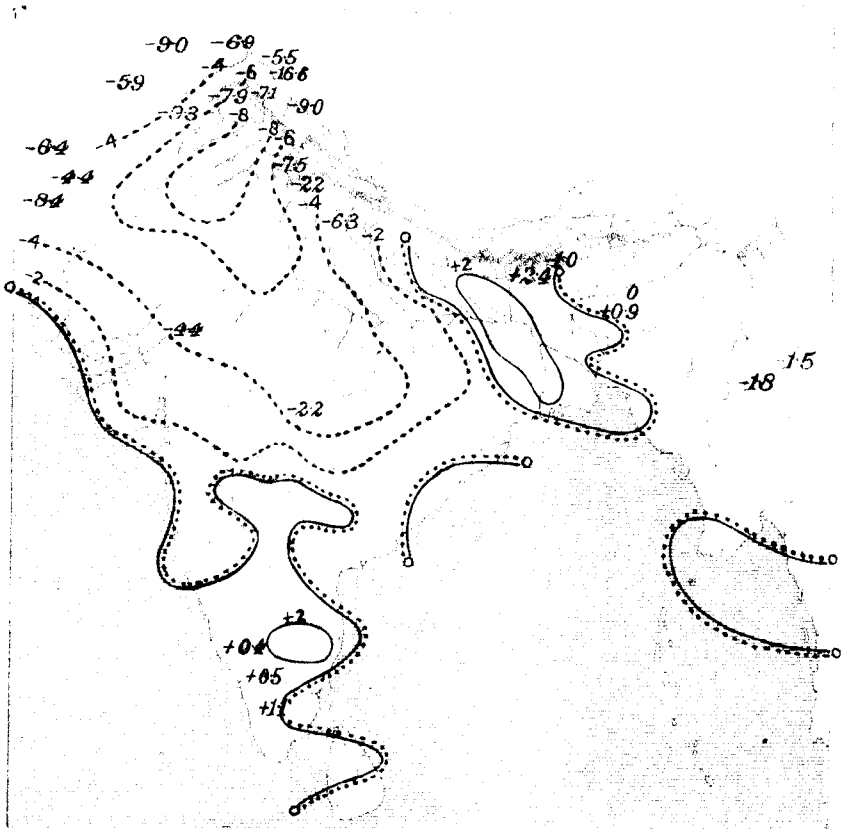


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

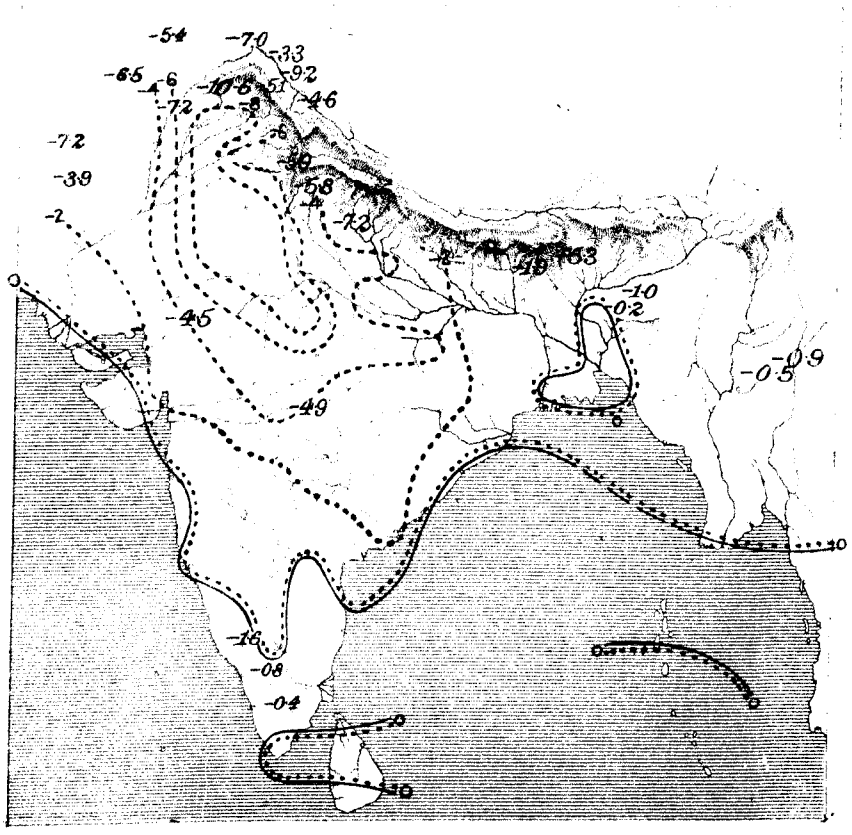


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

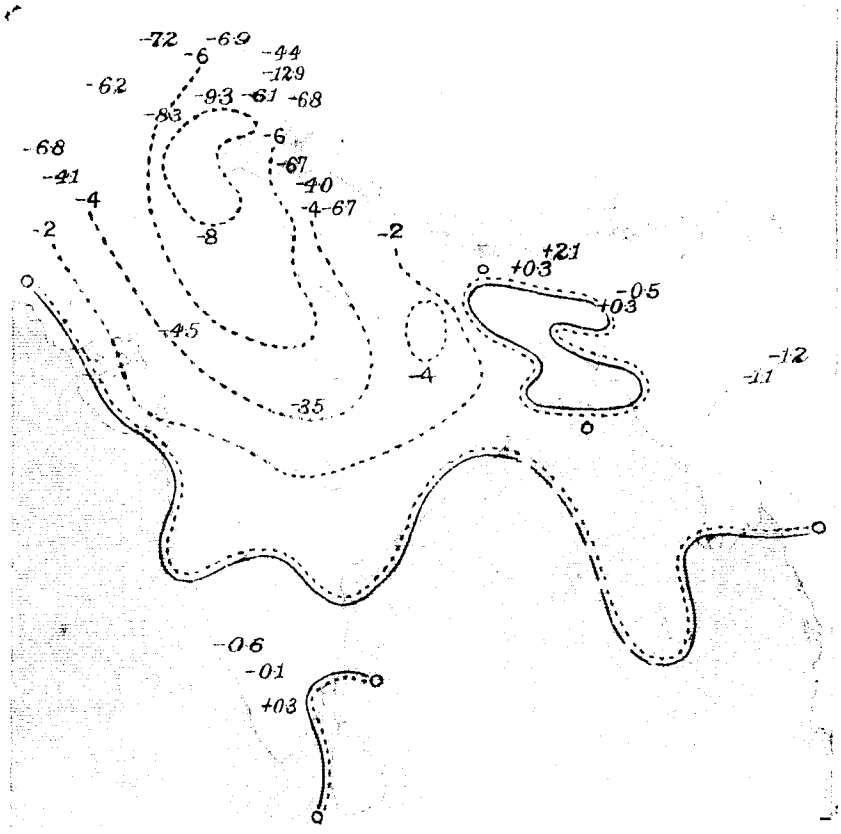


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

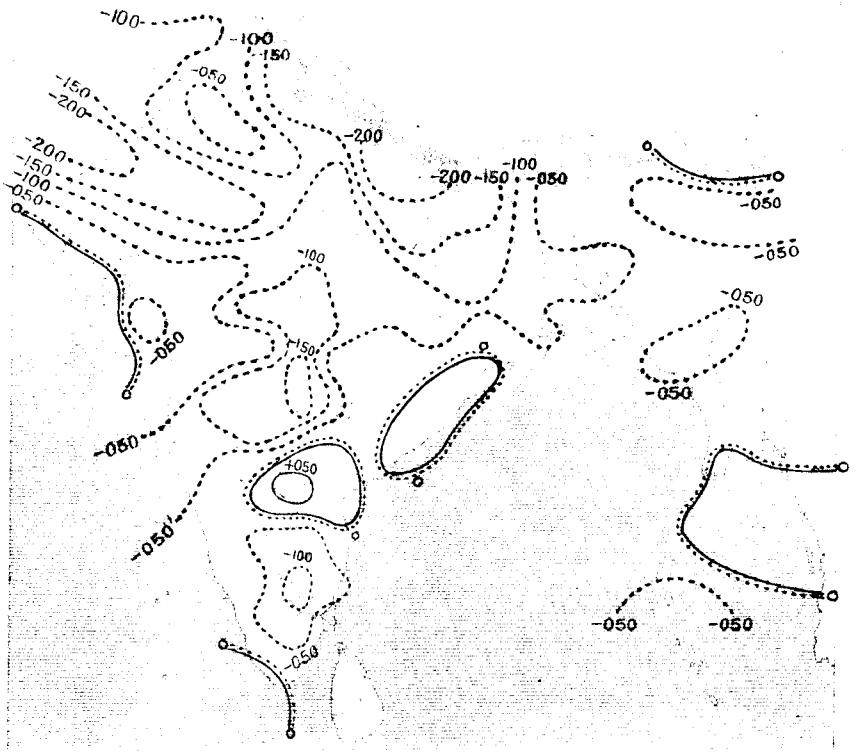


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

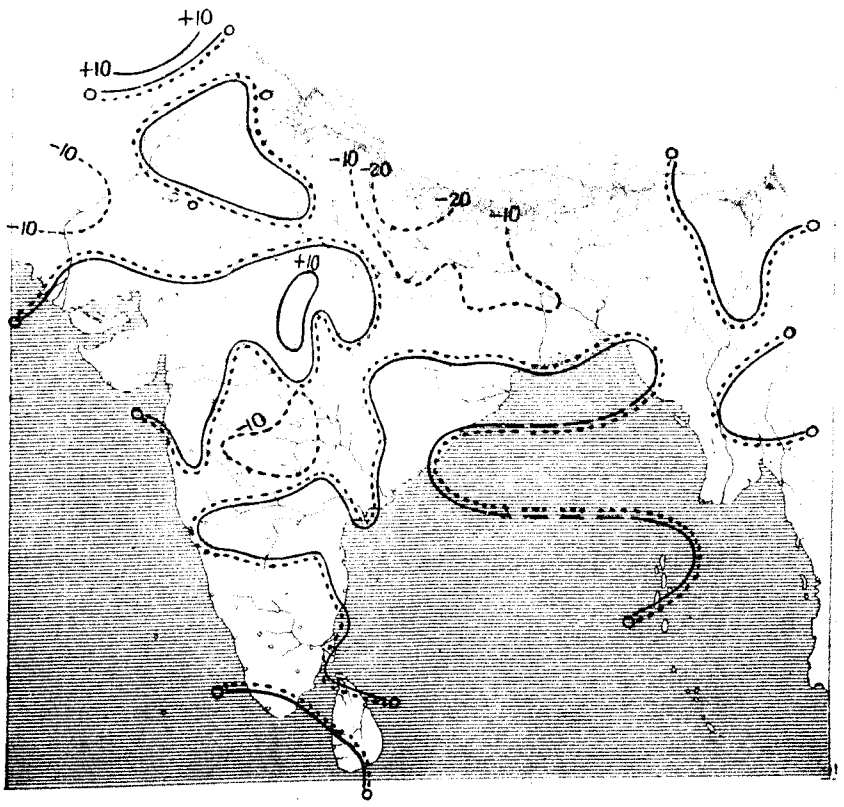


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

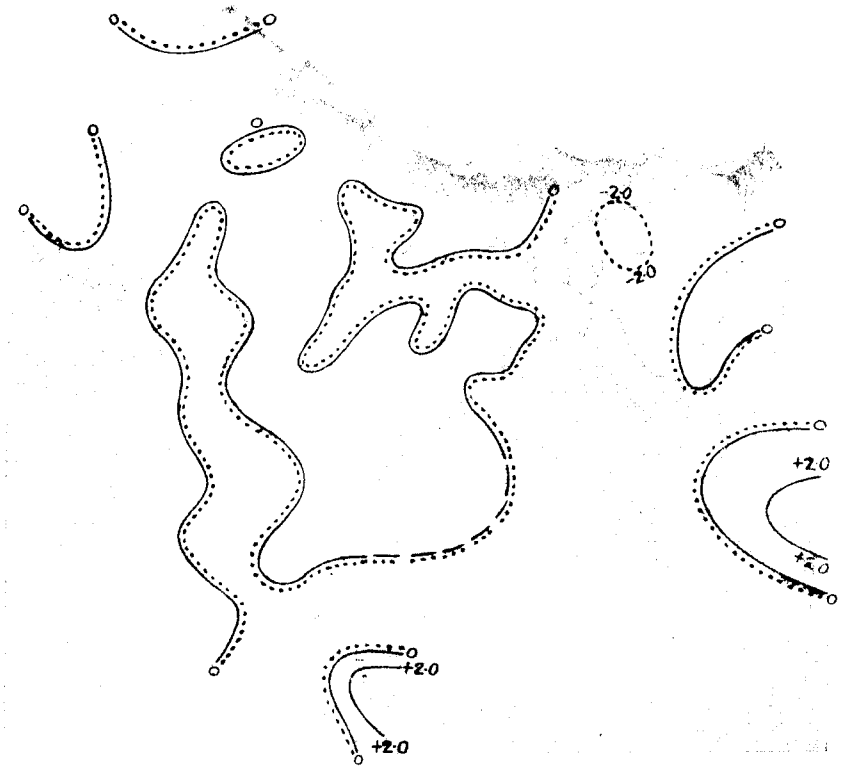
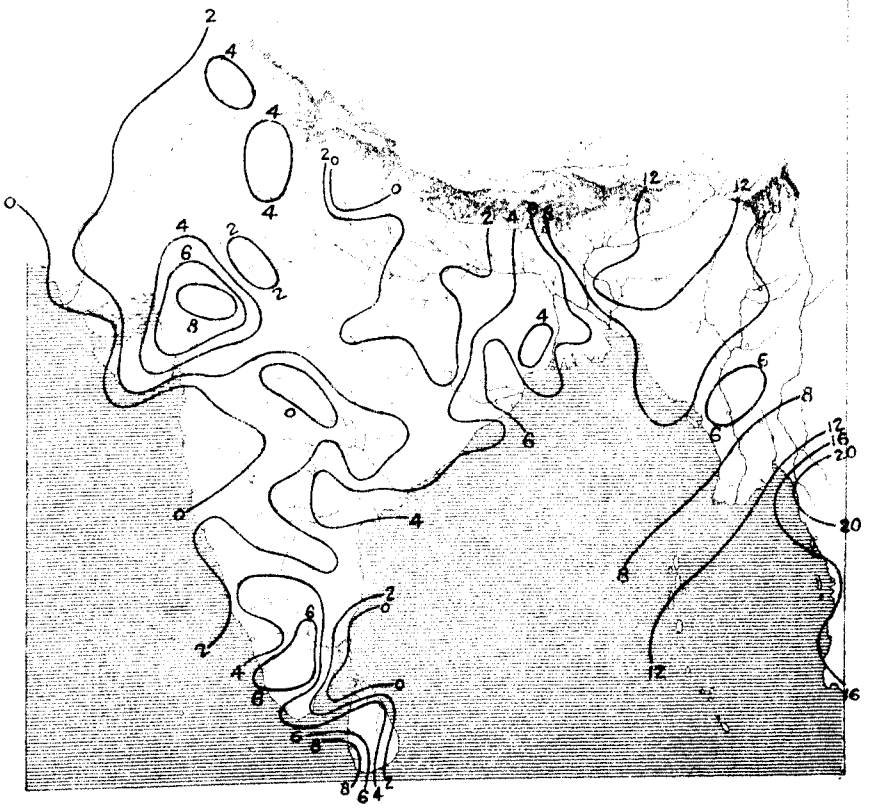
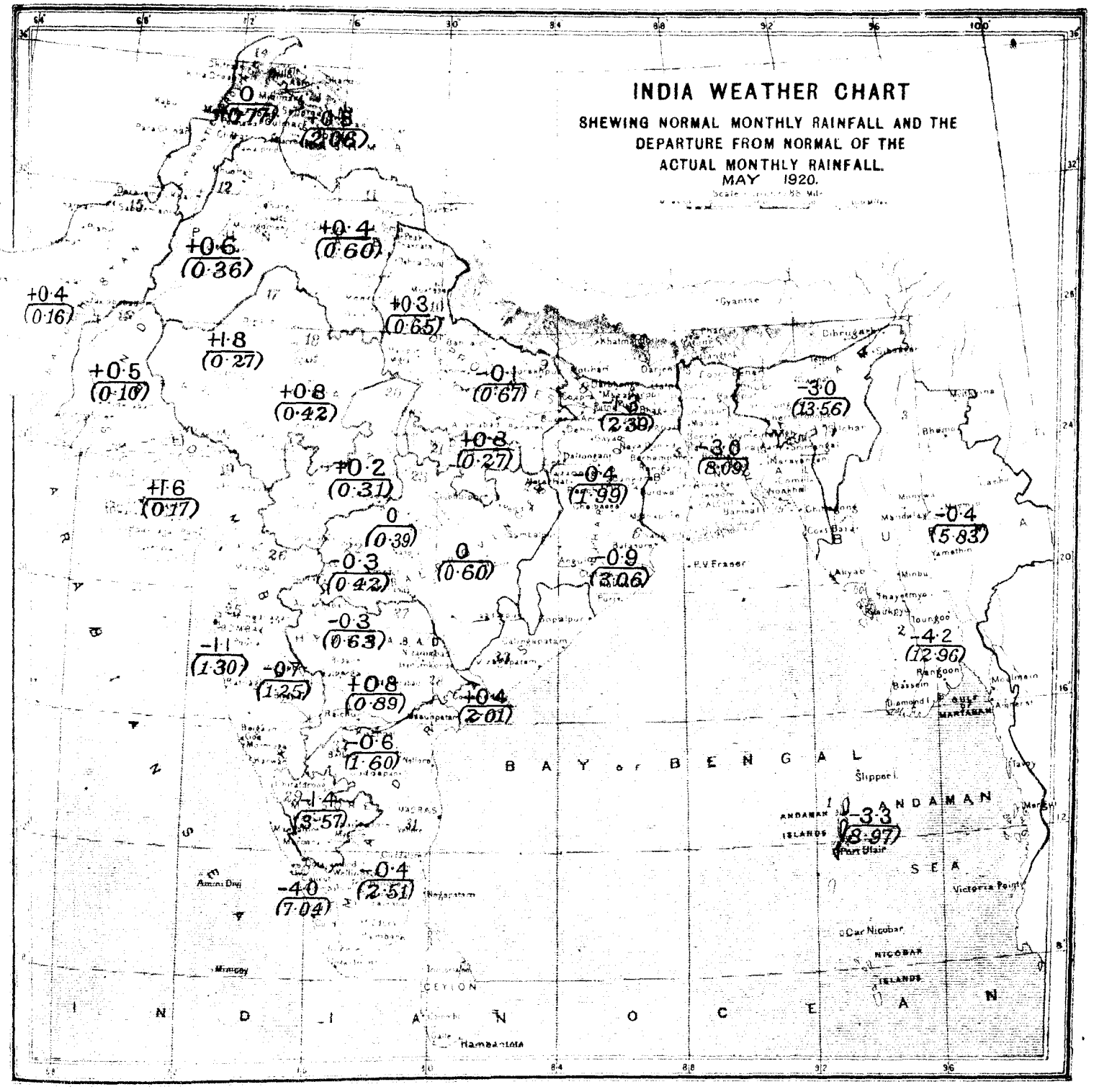


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.
(BASED ON THE RETURNS OF TABLE B.)





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

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA

CALCUTTA, JUNE, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of June, 1920, is based on observations taken daily at 8 hrs. at 213 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 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.

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.

1. The monsoon arrived on the Malabar coast on the 2nd and reached Marmagao on the 3rd; but its further advance along the west coast was checked by the development of a storm in the usual area of squally weather in front of it in the Arabian Sea. The storm had probably completely formed on the 6th when it lay off the Canara coast with centre about latitude 14°N and longitude 70°E. It moved in a north-north-westerly direction increasing steadily in intensity till the 8th; then recurving to the north-east it advanced very slowly towards Kathiawar, and crossing the coast near Veraval on the 11th, lay near Rajkot on the 13th. It was a severe cyclone during the whole of this period and caused great damage to property in Kathiawar besides stopping all traffic. The storm rapidly weakened after the 13th and disappeared over north Gujarat on the 15th. With the disappearance of the storm the monsoon extended into Hyderabad and feebly into the United Provinces and the central parts of the country, and was effectively established by the 18th.

The Bay monsoon appeared in northeast India on the 13th, but was weaker than usual almost throughout the month. On the 19th a shallow depression formed off Gopalpur and taking a northwesterly course disappeared near the Simla-Kumaon hills on the 24th. It stimulated the activity of the Arabian Sea monsoon and caused widespread rain in central and northern India; the area of rainfall, however, shrank gradually northwards as the depression advanced. During the last four days of the month there was a break in the monsoon rains over the greater part of the country.

Four western disturbances affected the weather in northwest India, and caused rainfall mainly in Baluchistan, the North-West Frontier Province and Kashmir.

The total rainfall of the month was above normal in the west of the United Provinces, the south-west Punjab, Rajputana, Gujarat and Malabar; it was normal in Lower Burma, Assam and Central India West. Over the rest of the country rainfall was mostly in moderate defect.

The departures of the other elements agreed generally with that of rainfall. Cloud proportion was higher than usual in the Punjab, Rajputana, north Gujarat and Malabar; it was generally below normal over the rest of the country. Humidity was in excess in Gujarat, Rajputana and the North-West Frontier Province, and in marked defect in Bihar and Orissa, the United Provinces East, and most of the central parts of the country. Both maximum and minimum temperatures were below normal over the greater part of northwest India, the deficiency being 5° in Rajputana. Maximum temperature was above normal from west Bengal to the east of the United Provinces as well as in Upper Burma and Hyderabad.

Barometric pressure averaged over the plains of India was 0·014″ below normal, the deficiency being greatest over Gujarat.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar observations.*—No observations were possible on 8 days during the month and on 3 other days prominences could not be photographed.

Sunspots.—12 new groups were recorded with a daily average of 2·7. The average life of a spot was 6·6 days as against 5·2 in May. The distribution of the spots in latitude was as follows :—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	3	3	11°·8	8° & 15°
South	3	3	11°·0	5° & 19°

Prominences.—37 prominences reaching a height of 1 minute or more and 3 metallic prominences were recorded. The greatest height recorded was only 150" on the 7th.

Magnetic disturbances.—"Moderate" disturbances were registered on the 4th, 10th, 11th and 29th.

T. ROYDS,
Acting Director,
Kodaikanal and Madras Observatories.

Seismic records.

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

Subsoil—Rock.

Apparatus.—Milne Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·3	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitud (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
June 5th	eP	4 31 18	...	...	...	...	...	
	i L	4 26 54	...	...	...	...	...	
	M	4 52 36	...	...	1250	...	...	
	F	7 21 18	...	...	...	...	...	
June 5th	eP	12 18 18	...	...	...	...	...	
	F	12 20 18	...	...	...	...	...	Widening of line.
" 5th	eP	18 31 00	...	...	...	...	...	
	F	18 34 06	...	...	...	...	...	Widening of line.
" 5th	e P	18 41 30	...	...	...	...	...	
	F	19 08 48	...	...	...	...	...	Widening of line.
" 8th	eP	14 09 48	...	...	...	...	...	
	F	14 12 24	...	...	...	..	...	
" 9th	eP	11 44 24	...	...	...	...	...	
	F	11 55 36	...	...	...	...	...	
	M	12 01 48	...	...	200	...	...	
	F	12 36 12	...	...	...	...	...	
" 10th	eL	2 56 54	...	...	...	...	...	
	M	2 58 42	...	..	60	...	...	
	F	3 07 24	...	...	...	...	...	Instrument examined at 2 h. 47 m. Air tremors during high wind were frequent during the month.

T. ROYDS,
Assistant Director,
Kodaikanal and Madras Observatories.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of June, 1920, the traces showed 15 calm days and 15 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the magnetic survey of India are the 3rd, 8th, 14th, 22nd 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	C	25	S
2	C	10	S	18	C	26	S
3	C	11	S	19	C	27	C
4	S	12	C	20	C	28	S
5	S	13	C	21	C	29	S
6	S	14	C	22	C	30	S
7	C	15	S	23	C		
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° 20′ 22″.
Horizontal force	0·36933 C.G.S. unit.
Vertical force	0·17147 C.G.S. „
Inclination	24° 54′·2.
Horizontal force range	0·00043 C.G.S. unit.
Horizontal force summed range	0·00297 C.G.S. „
Declination range	5′·6.
Declination summed range	25′·0.

NOTE.—(Summed range means sum without regard to sign of 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 (E—W).

TABLE 4.

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

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.).	Remarks.
1920 June 5th	P	h. m. s. 4 30 4	...	...	...	...	...	
	M	4 51 16	...	..	675	...	...	
„ 9th	P	11 40 *	...	...	...	..	...	* Beginning doubtful as it is mixed in tremors. Maximum cannot be determined as the movements are very small.
	M	...	...	...	...	...	...	

SHAMSHAD ALI KHAN,
for *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	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	An.	Az.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
June 5th	P	4 27 42	4	...	...	...	...	
	S	4 33 0	18	...	...	...	...	
	L	4 38 30	17	...	...	...	...	
	M	?	...	?	?	...	...	
	F	6 9 48	...	...	...	...	...	
„ 9th	P	11 39 24	3	...	...	...	...	
	L	11 46 30	6	...	...	...	...	
	F	12 27 36	...	...	...	...	...	
„ 14th	P	13 15 43	2	...	...	...	...	
	L	13 18 48	3	...	...	...	...	
	F	13 42 30	...	...	...	...	...	

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	∈	$\frac{r}{To^2}$
An:	14	45	1	
Az:	14	45	1	
Az:				

Date.	Phase.	Time, G. M. T.	Period (Sec.)	Amplitude (μ) An.	An.	Az.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
June 5th	P	4 29 00	...	...	...	...	...	
	S	4 35 06	...	...	...	...	...	
	L	4 43 36	25	...	...	...	...	
	M	4 44 24	...	1286	...	...	...	
	F	6 11 00	...	...	...	...	...	
„ 14th	P	13 10 12	...	...	...	...	...	
	eL	13 11 54	...	...	...	...	...	
	M	13 12 36	...	7357	...	...	...	Pendulum striking against stop on one side.
	F	13 20 18	...	...	...	...	...	

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 7.

——	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure, in inches.	—·003	+·004	+·020
Actual mean wind direction . .	S 53° E	S 22° W	S 26° E
Normal mean wind direction . .	S 61° E	S 13° W	S 27° E
Actual mean wind velocity (miles per diem).	173	144	227
Normal mean wind velocity (miles per diem).	187	154	188
Rainfall departure from normal, in inches	—1·60	—1·01	—1·04

Depressions and cyclonic storms.

8. The monsoon arrived on the Malabar coast on the 2nd. In the area of squally weather over the Arabian Sea that usually precedes it a severe storm developed during the next few days. Its formation was probably complete on the 6th, with centre off the Canara coast about latitude 14°N and longitude 70°E. No. information was received from near its centre during the next three days: but the indications are that it moved in a north-north-westerly direction increasing steadily in intensity. On the morning of the 8th its centre lay near latitude 17°N and longitude 68°E. After this its behaviour, for a storm of this season, was unusual; for it changed its course to north and north-east and began to advance towards the Kathiawar coast. Also, whereas storms of this type generally move very rapidly on approaching the coast and dissipate quickly inland, the present storm moved remarkably slowly covering a distance of roughly 100 miles in the 36 hours ending 8 A. M. of the 11th, when it lay about 30 miles south-west of Veraval.

The storm during this period was a severe cyclone with probably a calm centre, but no steamer was near enough to the centre to afford definite information on the latter point. The centre passed to the east of the S. S. *Rotenfels* bound from Basra to Bombay early on the morning of June 11th and from 8 A. M. to noon the violence of the sea and its irregularity was said to baffle description. The north-west squalls blew the ship bodily to the south-east at about 4 miles an hour. The S. S. *Chakdina*, (noon position on 10th, 21°N 67°E; noon position on 11th 19°N 70°E) also bound from Basra to Bombay passed to the south of the centre at a distance of about 70 miles, and met with squalls of hurricane force, constant rain and very high confused sea on the 11th and frequently shipped water. The S. S. *Gairsappa* bound from Karachi to Bombay had winds of full gale force with terrific squalls and rough high seas from midnight of the 11th to noon of the 12th. The British Indian Craft *Villiprasad* whilst proceeding from Goa to Broach stranded on a sandbank off the Lohara lighthouse, Gulf of Cambay, on June 11th and subsequently became a total loss. Five of the crew of nine lost their lives.

The storm crossed the coast in the neighbourhood of Veraval on the 11th. The barometer there fell by 0·8″ between 8 hours and 17 hours of the 11th, and rose in the rear of the storm by 0·93″ by 11 hours of the 12th; the depth below normal at 17 hours on the 11th was 1·4″. The pressure changes at Veraval and Rajkot on the 11th and 12th are shown on plate VIII. Still moving very slowly the centre lay not far from Rajkot on the morning of the 13th. During these two days it continued to have all the characteristics of the destructive cyclones which from time to time visit other parts of India, except that it appears to have had no sharply defined calm centre surrounded by a region of hurricane winds. The storm rapidly weakened after the 13th, and disappeared on the morning of the 15th over north Gujarat.

During the storm's first two days over the land great damage was done to buildings, trees, cattle, grain and other stocks over a large part of Kathiawar and all communication by road, rail and telegraph was broken down. Mainly due to the precautions taken on the telegraphic warnings issued on the 10th and 11th there was practically no loss of life.

The total damage to property in the Kathiawar States and in the Amreli Division of the Baroda State amounted to about 32 lakhs of rupees. Junagadh State into which the storm passed from the sea was the greatest sufferer; the extent of the damage done there by the storm may be gauged by the fact that 16,000 houses collapsed, 22,000 trees were uprooted and 7,700 cattle died.

At Veraval the wind reached a maximum velocity of 96 miles an hour on the 12th and continued with unabated fury till the 14th. The total rainfall recorded in the rain gauge in the town from the 9th to 14th was 23 inches, the maximum fall being 10 inches on the 13th. The whole town was inundated by the flood waters in the creeks and rivers of the neighbourhood.

A couple of days after the storm subsided, the tide in the Gulf of Cambay rose to the highest level previously recorded; and it rose still higher on the 17th and 18th June, reaching to one foot above previous maximum. Thirty-one villages in the Ahmedabad and Broach districts were flooded and their lands were reported to have been rendered temporarily unfit for cultivation. An account of this storm has also been published in the Departmental Administration Report for 1920-21.

A depression formed off the Orissa coast on the 20th and crossed the coast not far from Gopalpur; moving in a north-westerly direction it lay over Central India East on the morning of the 23rd. Thence it travelled in a northerly direction into the west of the United Provinces and disappeared in the Kumaon hills on the 24th after causing locally heavy rain in the submontane districts.

Four winter disturbances affected the weather in north-west India during the month. The first caused local rain on the western Himalayas on the 1st and 2nd. The second gave local rain in Kashmir and the North-West Frontier Province from the 7th to 11th, and aided by monsoon winds caused widespread rain in the west Punjab on the 11th. The third (14th to 15th) and fourth (18th to 20th) occasioned a few falls from Baluchistan to Kashmir.

At about 9 o'clock on the night of the 5th June Poona was visited by a very severe thunderstorm accompanied by exceptionally strong winds, causing considerable destruction to buildings on the race course; the damage was estimated at about two lakhs.

Pressure.

9. The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India.

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	−·025
Assam	−·023
Bengal	−·012
Bihar and Orissa	−·009
United Provinces	−·017
Punjab	−·006
North-West Frontier Province	+·002
Sind	−·017
Rajputana	−·003
Bombay	−·039
Central India	−·015
Central Provinces	−·006
Hyderabad	−·001
Mysore	−·009
Madras	−·004

The following table gives a comparison of the departure from normal of mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 9.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference. B−A.
	"		"	"
Quetta	−·008	Jacobabad	−·003	+·005
Leh	−·012	Lahore	−·002	+·010
Murree	−·013	Peshawar	−·006	+·007
Simla	−·004	Ludhiana	−·008	−·004
Mukteswar	−·007	Bareilly	−·024	−·017
Darjiling	−·028	Dhubri	−·017	+·011
Mount Abu	−·017	Deesa	−·033	−·016
Pachmarhi	−·012	Khandwa	−·019	−·007
Kodaikanal	−·002	Madura	+·009	+·011

Temperature.

10. Table 10 gives the actual temperature and its departure from normal in the 33 sub-divisions, while table 11 gives only the departures from normal in the 15 chief political divisions.

TABLE 10.

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	85·6	77·1	81·3	8·5	−0·3	−0·7	+0·4
2. Lower Burma	86·0	75·7	80·8	10·3	+0·2	−0·4	+0·6
3. Upper Burma	94·5	76·8	85·7	17·6	+4·0	+1·1	+2·9
4. Assam	88·2	75·4	81·8	12·8	−0·3	−0·1	−0·2
5. Bengal	92·0	78·3	85·1	13·7	+2·1	+0·4	+1·7
6. Orissa	95·4	80·0	87·7	15·4	+1·2	+0·1	+1·1
7. Chota Nagpur	100·3	80·3	90·3	20·1	+4·1	+2·0	+2·1
8. Bihar	100·0	80·3	90·1	19·7	+4·7	+0·6	+4·1
9. United Provinces, East	104·1	82·5	93·3	21·6	+3·8	+1·2	+2·6
10. Do. do., West	102·4	80·8	91·6	21·5	−0·2	−1·5	+1·3
11. Punjab, East and North	102·7	78·7	90·7	23·9	−2·1	−2·0	−0·1
12. Do., South-west	105·7	80·8	93·3	24·9	−2·4	−2·3	−0·1
13. Kashmir	76·9	53·0	64·9	23·9	−4·3	−1·2	−3·1
14. North-West Frontier Province	107·5	76·9	92·3	30·7	+0·7	−2·3	+3·0
15. Baluchistan	96·9	67·2	82·0	29·7	−3·2	−3·5	+0·3
16. Sind	103·7	84·0	93·9	19·8	+0·7	+1·2	−0·5
17. Rajputana, West	100·0	78·9	89·5	21·1	−5·9	−5·2	−0·7
18. Do., East	97·8	78·8	88·3	19·0	−5·9	−4·5	−1·4
19. Gujarat	93·5	79·7	86·6	13·8	−2·7	−0·6	−2·1
20. Central India, West	95·5	75·9	85·7	19·5	−1·5	−0·7	−0·8
21. Do. do., East	102·1	82·7	92·5	19·4	+0·8	+0·2	+0·6
22. Berar	99·1	78·5	88·8	20·7	+2·7	+2·2	+0·5
23. Central Provinces, West	98·8	79·2	89·0	19·7	+0·6	+0·8	−0·2
24. Do. do., East	98·3	79·6	88·9	18·7	+2·5	+2·4	+0·1
25. Konkan	87·1	78·1	82·7	9·0	+0·5	+0·4	+0·1
26. Bombay Deccan	91·4	72·1	81·7	19·3	+0·5	−0·1	+0·6
27. Hyderabad, North	98·5	76·1	87·3	22·4	+2·7	+1·1	+1·6
28. Do., South	98·1	76·9	87·5	21·1	+2·3	+0·7	+1·6
29. Mysore	85·1	68·2	76·6	16·9	+0·9	+0·4	+0·5
30. Malabar	83·4	74·2	78·8	9·2	−1·2	−0·7	−0·5
31. Madras, South-east	96·6	78·3	87·5	18·3	−0·2	+0·3	−0·5
32. Do., Deccan	99·4	78·5	88·9	20·9	+2·0	+0·7	+1·3
33. Do. Coast, North	95·3	80·9	88·1	14·3	+0·4	+0·3	+0·1

TABLE 11.

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

Surface and upper air winds.

11. *Surface.*—The easterly component in the wind direction was weaker than usual, and was replaced by a westerly component at many stations in the Gangetic plain.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 12.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	4·6	+0·3	58	— 3
Assam	2·5	—0·2	18	— 7
Bengal	4·0	—0·1	52	— 7
Bihar and Orissa	4·9	+0·4	55	— 1
United Provinces	2·8	—0·5	31	+ 1
Punjab	3·2	—0·2	20	—14
North-West Frontier Province	1·3	—1·3	15	— 9
Sind	7·5	—2·3	57	—17
Rajputana	6·2	—1·2	46	—12
Bombay	8·5	—1·3	55	— 9
Central India	5·4	—1·0	53	— 3
Central Provinces	6·7	+0·9	70	+ 1
Hyderabad	11·0	+1·9	74	— 1
Mysore	7·4	+0·1	81	— 3
Madras	6·1	+0·2	70	+ 6

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab and Calcutta during the month are given in the following table :—

TABLE 13.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	32	3·6	2·3	285	28	1·9	0·9	351	9	1·1	0·9	131	18	5·8	5·1	251	13	1·2	0·6	273	24	3·7	2·9	214
0·5	32	9·4	5·9	304	...	...	...	...	9	5·5	3·7	175	...	...	...	...	13	4·8	3·6	233	22	6·6	4·7	237
1·0	32	8·5	5·3	302	...	...	...	...	9	4·4	3·7	263	18	6·7	6·3	261	11	5·5	4·6	254	21	7·2	4·1	244
1·5	30	7·1	3·5	317	...	...	...	...	9	5·2	4·3	302	19	8·4	7·9	261	8	5·3	4·7	283	10	6·9	5·0	310
2·0	28	7·3	3·5	304	...	...	...	...	9	5·5	5·1	312	15	7·6	6·0	271	4	5·1	4·7	321	40	6·5	3·4	331
2·5	22	7·2	2·1	261	27	5·3	2·9	329	9	6·5	6·3	325	8	7·6	2·8	287	4	6·0	5·7	322	2	5·3	5·1	304
3·0	20	7·7	3·7	255	27	5·5	3·4	316	8	7·1	6·9	337	6	7·0	1·8	59	4	5·4	4·9	345	1	2·0	2·0	325
3·5	17	8·3	5·2	261	24	5·4	2·7	294	8	8·3	7·4	343	6	6·7	3·1	62	3	5·8	5·1	356	...	...	...	...
4·0	17	8·3	6·1	266	22	5·5	1·9	308	7	9·1	8·2	346	4	4·1	1·3	196	3	7·5	6·1	355	...	...	...	...
4·5	16	7·7	4·5	266	21	5·9	2·2	254	5	8·3	7·8	345	3	5·3	2·7	250	2	8·3	7·9	316	...	...	...	...
5·0	16	8·3	5·3	269	21	6·7	2·6	258	4	7·6	7·1	333	2	4·7	1·5	159	2	13·3	11·5	281	...	...	...	...
5·5	15	8·7	5·9	253	15	6·7	4·0	251	3	8·2	7·8	318	1	2·0	2·0	70	...	...	...	...	...	...	...	...
6·0	13	9·1	7·5	245	14	7·9	5·7	245	3	10·8	8·7	307	1	3·0	3·0	90	...	...	...	...	...	...	...	...
6·5	13	10·0	8·0	239	13	10·3	8·7	238	2	13·0	10·0	273	1	2·0	2·0	80	...	...	...	...	...	...	...	...
7·0	13	11·5	8·8	239	10	14·3	12·2	242	2	14·3	13·0	253	1	2·5	2·5	60	...	...	...	...	...	...	...	...
7·5	13	12·0	9·1	242	9	14·4	11·0	250	2	18·3	17·7	255	1	2·0	2·0	30	...	...	...	...	...	...	...	...
8·0	12	11·7	9·6	237	8	15·4	12·0	252	2	19·3	18·0	254	1	4·5	4·5	115	...	...	...	...	...	...	...	...
8·5	10	10·3	7·6	247	6	18·7	14·7	242	1	20·0	20·0	240	...	...	...	...	...	...	...	...	...	...	...	...
9·0	10	11·2	8·0	253	6	20·0	16·4	249	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9·5	10	12·1	8·7	251	6	21·2	18·2	245	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10·0	8	10·3	8·5	222	5	24·4	21·8	241	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10·5	6	7·6	5·9	212	3	24·6	22·0	252	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11·0	5	6·8	4·4	188	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11·5	5	6·8	5·1	208	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12·0	5	6·9	4·7	207	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12·5	4	6·5	6·4	222	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13·0	3	6·0	5·4	235	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13·5	2	7·0	7·0	255	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

N = Number of flights.
V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of resultant wind, taking account of direction, metre per sec.
L = Direction of resultant wind, North wind = 0° or 360°, East wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours 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	85	— 3	·878	—·023	8·0	+0·1
Assam	89	— 1	·891	—·018	7·1	—0·4
Bengal	84	— 3	·940	—·017	7·0	—0·1
Bihar and Orissa	70	— 7	·834	—·058	5·8	0
United Provinces	56	— 8	·745	—·052	3·0	—1·0
Punjab	% 50	+ 1	·639	—·031	2·7	+0·2
North-West Frontier Province.	53	+ 5	·679	+·005	1·5	0
Sind	63	— 2	·861	—·010	2·3	—0·8
Rajputana	64	+ 9	·749	+·043	3·9	+0·8
Bombay	78	+ 1	·835	—·004	6·4	—0·2
Central India	57	— 6	·689	—·055	4·7	—0·6
Central Provinces	58	— 7	·674	—·062	4·4	—0·8
Hyderabad	63	— 5	·677	—·035	4·5	—1·7
Mysore	79	— 1	·644	—·010	6·8	—1·2
Madras	72	0	·818	—·003	5·6	—0·8

Rainfall.

13. The total rainfall of the month was above normal in the United Provinces West, the Punjab South-west, Rajputana, Gujarat and Malabar. It was nearly normal in the Bay Islands, Lower Burma, Assam and Central India West, and in slight defect in Bengal, the Punjab East and North, the Bombay Deccan, Mysore and Madras South-east. Over the rest of the country rainfall was in moderate to considerable defect; the deficiency was over 8 inches in the Konkan, about 4 inches in Upper Burma, Chota Nagpur, Bihar and the Central Provinces East, and nearly 3 inches in Hyderabad North.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	16·7	15·9	14·76	13·90	+0·86	+ 6
2. Lower Burma	22·2	22·4	25·24	26·42	—1·18	— 4
3. Upper Burma	5·7	10·9	3·05	7·97	—4·92	— 62
4. Assam	19·6	17·3	18·95	17·74	+1·21	+ 7
5. Bengal	11·6	14·1	11·97	14·50	—2·53	— 18
6. Orissa	9·6	10·8	6·57	9·10	—2·53	— 28
7. Chota Nagpur	7·9	9·9	4·10	8·17	—4·07	— 50
8. Bihar	6·3	8·4	4·15	7·99	—3·84	— 48
9. United Provinces, East	3·7	5·5	2·84	4·71	—1·87	— 40

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
10. United Provinces, West	5·4	4·7	5·57	3·97	+1·60	+ 40
11. Punjab, East and North	2·7	3·0	1·68	2·07	−0·39	− 19
12. Do., South-west	1·5	1·3	0·90	0·74	+0·16	+ 22
13 Kashmir	3·1	4·2	1·09	2·39	−1·30	− 54
14. North-West Frontier Province	1·5	1·8	0·66	0·96	−0·30	− 31
15. Baluchistan	0·3	0·7	0·10	0·40	−0·30	− 75
16. Sind	0·5	0·8	0·31	0·52	−0·21	− 40
17. Rajputana, West	3·7	2·1	2·51	1·31	+1·20	+ 91
18. Do., East	5·5	3·7	5·32	2·49	+2·83	+114
19. Gujarat	7·1	5·6	8·65	5·27	+3·38	+ 64
20. Central India, West	5·3	5·6	4·84	4·43	+0·41	+ 9
21. Do., East	3·3	4·9	1·92	4·18	−2·26	− 54
22. Berar	3·9	7·9	3·66	5·89	−2·23	− 38
23. Central Provinces, West	5·3	8·4	4·24	6·77	−2·53	− 37
24. Do., East	5·4	9·3	3·62	7·98	−4·36	− 55
25. Konkan	18·0	18·0	16·98	25·27	−8·29	− 32
26. Bombay Deccan	7·0	8·0	4·20	5·32	−1·12	− 21
27. Hyderabad, North	4·9	7·8	2·63	5·55	−2·92	− 53
28. Do., South	4·7	6·8	2·77	4·26	−1·49	− 35
29. Mysore	7·0	7·1	3·88	4·80	−0·92	− 19
30. Malabar	24·5	20·8	36·05	25·36	+10·69	+ 46
31. Madras, South-east	2·9	2·9	1·37	1·56	−0·19	− 12
32. Do., Deccan	3·3	4·4	1·55	2·39	−0·84	− 35
33. Do. Coast, North	5·4	6·5	3·66	4·71	−1·05	− 22

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	11·83	15·30	−3·47	− 23
Assam	18·95	17·74	+1·21	+ 7
Bengal	11·97	14·50	−2·53	− 18
Bihar and Orissa	4·70	8·29	−3·59	− 43
United Provinces	4·31	4·31	0	0
Punjab	1·52	1·79	−0·27	− 15
North-West Frontier Province	0·66	0·96	−0·30	− 31

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·31	0·52	−0·21	− 40
Rajputana	4·46	2·13	+2·33	+109
Bombay	7·90	8·83	−0·93	− 11
Central India	3·74	4·33	−0·59	− 14
Central Provinces	3·83	7·05	−3·22	− 46
Hyderabad	2·69	4·94	−2·25	− 46
Mysore	3·88	4·80	−0·92	− 19
Madras	9·32	7·48	+1·84	+ 24
Mean of India	6·34	7·32	−0·98	− 13

Snowfall.

I.—CENTRAL ASIA.

14. *Kashgar.*—A report made about the middle of the month said "Heavy snowfall reported over the Minteka and Kilik passes. More than average snow fell on Chichiklik and Kashkasu passes, but they remained open to traffic practically the whole year. Though more than the usual fall of snow was reported on the Tirik Dawan, it did not remain closed to traffic for more than a month." The report said that the snowfall of the season was above the average.

II.—THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Kurram.*—No snow fell during the month. The adjacent passes were clear and the amount of snow on the adjacent hills was less than in the previous year.

(*b*) *Drosh.*—No snow fell during the month; the thickness of snow on the high ranges at the end of the month was 5 feet.

(*c*) *Khyber Agency.*—There was no snowfall in this Agency or in the adjacent mountain regions in the eastern Afghanistan.

(*d*) *Malakand.*—No snow fell in the Agency during the month.

(*e*) *Abbottabad* (*Hazara*).—One to three inches of snow fell in the Kagan valley at altitudes of 11,000 to 17,000 feet.

III.—KASHMIR.

(*a*) *Srinagar.*—There was no fresh snowfall either in the valley or on surrounding mountains.

(*b*) *Gulmarg.*—There was one light fall on the 11th.

(*c*) *Sonamarg.*—Light snow fell on the highest mountain peaks on the 9th and 10th.

(*d*) *Skardu.*—Light falls (half an inch or less) occurred on the higher mountains on the 8th and 9th. At the end of the month 2 or 3 feet lay on the ranges near the station and 3 or 4 feet on the higher mountains; very little snow was visible on the lower hills. The month's fall was below the average.

(*e*) *Dras.*—Had some fresh snow during the month.

(*f*) *Kargil*:—No snow fell.

(*g*) *Leh.*—Light snow fell on the 11th, 14th, 16th and 25th.

IV.—THE PUNJAB.

(*a*) *Naggar* (*Kulu hills*).—There was no heavy snowfall during the month.

(*b*) *Kilba* (*Simla hills*).—There was a fall on the 2nd measuring somewhat less than a foot at a height of 14,000 feet. Snowfall in June is rather unusual.

The accumulations at the end of the month were:—

TABLE 17.

Name of pass or peak.	Accumulation at the end of month.	
	Reported.	Normal.
	Feet.	Feet.
Chitkul-Charang pass	10 "	...
Rupan "	5 "	4 "
Brua "	5 "	3 "
Harang "	*Nil.*	*Nil.*

V.—THE UNITED PROVINCES.

(*a*) *Garhwal.*—Snowfall occurred much later than usual this year and the total amount of late snow from March to June was exceptionally large.

(*b*) *Almora.*—

TABLE 18.

Name of peak.	Total fall.	Distance to which the snowline descended.
	Feet.	Miles.
Malla Danpur	2½	3 or 4 miles.
Malla Johar	3¾	½ mile.
Malla Darma	4¾	2½ miles.
Byans	7½	3 or 4 miles.
Chaudas	1¾	¾ mile.

TABLE 19.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported	Normal
	Feet.	Feet.
Nuwe Pass	16 "	17 "
Lampia "	14 "	8½ "
Lipulekh "	9 "	6¾ "
Binkaru "	5 "	12½ "
Milamdhura "	1 "	2½ "
Bagdwar "	½ "	

VI.—THE EASTERN HIMALAYAS.

(*a*) *Gangtok.*—No snow fell during the month.

(*b*) *Yatung.*—The winter snowfall was six weeks later than usual.

Summary.

15. Snow fall was in defect in Kashmir, and in excess in the Punjab and roughly normal in the United Provinces Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in June, 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·572	29·470	·102	29·527	−·022	29·495	96·2	81·2	15·1	105·4	75·8	29·6	90·3	93·4	88·5	+4·0	77·7	81·7	81·9	80·[illegible]
	VI.—Punjab.																					
11	Lahore	702	28·816	28·719	·097	28·760	−·013	29·395	105·7	79·9	25·8	111·2	70·9	40·4	96·2	105·1	92·4	−0·6	70·0	75·7	77·4	74·[illegible]
	IX.—Rajputana.																					
18	Jaipur	1,431	28·189	28·106	·083	28·146	+·013	29·175	97·2	76·7	20·6	111·7	68·3	43·4	89·3	95·1	85·8	−4·8	71·4	75·2	75·8	74·[illegible]
	X.—Bombay.																					
25	Bombay	37	29·686	29·611	·075	29·650	−·023	29·626	88·9	80·9	8·0	94·4	75·9	18·5	85·5	85·9	83·7	+1·3	75·1	79·5	79·7	78·[illegible]
	XIV.—Mysore.																					
28	Bangalore	3,021	26·864	26·769	·095	26·824	+·001	29·640	85·8	67·1	18·7	92·0	63·9	28·1	77·9	82·9	74·6	+0·6	65·4	69·7	69·7	68·[illegible]
	XV.—Madras.																					
30	Trivandrum	198	29·689	29·623	·076	29·666	+·014	29·795	82·0	73·9	8·1	88·3	71·1	17·2	78·8	79·3	76·8	−1·8		75·6	75·7	
31	Pudukkottai	318	29·501	29·373	·128	29·437		29·678	97·7	77·7	20·0	104·1	72·1	32·0	88·5	94·4	87·7			75·7	76·5	
	Madras	22	29·732	29·622	·110	29·686	−·013	29·639	100·2	81·4	18·8	106·1	75·1	31·0	93·2	91·8	89·6	+1·2	74·4	77·2	78·9	76·[illegible]
	Kashmir.																					
13	Srinagar	5,204	24·728	24·659	·069	24·693	−·003	24·665	80·2	55·7	24·5	89·8	50·2	39·6	71·4	77·9	68·0	−1·9	54·2	63·0	66·3	61·[illegible]
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·514	25·431	·083	25·469	+·066	25·422	87·5	67·4	20·1	95·6	59·2	36·4	80·3	83·7	76·7	+2·8	64·2	70·1	71·5	[illegible]
	Kodaikanal	7,688	22·793	22·739	·054	22·766		22·701	65·9	53·5	12·4	72·4	50·6	21·8	62·0	60·0	59·7		50·6	57·2	56·7	[illegible]
	Extra India.																					
	Seychelles	15	30·004	29·927	·077	29·967	+·020†	29·905	82·0	77·2	4·8	84·0	74·7	9·3	80·1	80·9	78·5	+0·9†	71·1	74·1	74·5	[illegible]
	Mauritius	181				29·968	−·003	30·039	75·2	59·7	15·5	79·0	54·5	24·5			67·1	−2·0				

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 2,000 feet.

A.

at 13 stations in India, etc., in June, 1920.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind steadiness.		Wind velocity.		Rainfall.		Stations.	Number of sub-divisions.
														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.	
·903	·963	·923	·944	−·027	85	69	61	74	− 9	7·1	6·9	7·0	−0·5	0	2	0	6	8	16	22	2	4	S 15° W	S 3° W	57	59	121	104	5·13	2·25	Calcutta . .	5
																															VI.—Punjab.	
·601	·611	·566	·611	−·016	59	36	26	41	− 3	1·9	0·8	1·3	−1·6	15	2	7	3	7	1	5	11	9	N 64° W	N 18° E	15	7	52	63	0·08	0·04	Lahore . .	31
																															IX.—Rajputana.	
·708	·702	·652	·694	+·038	77	53	42	59	+ 7	4·1	4·9	4·5	+0·1	5	6	5	3	0	5	16	16	4	S 81° W	N 70° W	40	43	89	119	9·76	3·43	Jaipur . .	18
																															X.—Bombay.	
·792	·919	·930	·896	−·042	75	76	75	77	− 6	6·7	7·1	6·9	−0·2	0	0	0	1	2	6	20	24	7	S 68° W	S 63° W	73	64	244	266	8·16	3·79	Bombay . .	25
																															XIV.—Mysore.	
·697	·628	·573	·610	−·013	92	66	52	72	− 2	7·4	7·9	7·7		3	0	0	1	1	1	23	26	4	S 71° W*	S 72° W	78	81	197	163	3·38	1·21	Bangalore . .	29
																															XV.—Madras.	
	·841	·839				86	84			9·5	9·6	9·5	+1·6	1	2	0	0	0	0	2	17	38	N 59° W	N 60° W	89	81	117	123	37·83	5·94	Trivandrum .	30
	·715	·671				53	42			4·7	6·8	5·7		16	2	0	0	0	5	18	14	5	S 68° W		55		86		5·57	1·78	Pudukkottai .	31
·758	·717	·810	·779	−·054	71	46	55	60	− 6	4·2	5·1	4·7	−1·5	0	0	0	1	20	3	12	22	2	S 35° W	S 37° W	49	57	104	154	0·44	0·15	Madras.	
																															Kashmir.	
·405	·481	·518	·468	−·067	91	63	54	69	−10	3·0	5·0	4·0	+0·4	22	4	1	1	10	3	2	4	13	N 66° W	N 9° E	10	7	47	66	0·94	0·42	Srinagar . .	15
																															Hill stations, excluding Kashmir and Baluchistan.	
·608	·619†	·632	·605	−·035	84	61	57	67	− 9	5·8	6·5	6·1	−0·1	0	1	0	32	0	0	0	27	0	N 33° E	N 37° W	40	20	18	23	8·05	2·25	Katmandu.	
·388	·418	·425	·393		83	75	83	80		7·8	9·0	8·4		0	4	1	3	1	2	1	35	13	N 75° W		70		223		2·70	0·80	Kodaikanal.	
																															Extra India.	
·681	·761	·767	·752	−·029	73	74	73	72	− 7	5·7	5·9	5·8	−1·3†	0	0	0	0	24	25	0	0	0	S 26° E	S 27° E	94	81	217	188	3·76	1·10	Seychelles.	
			·496	−·051				73	− 3			5·1	+0·3										S 52° E	S 61° E			126	137	0·70	0·30	Mauritius.	

* One wind less.
† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 213 stations in India, etc., in June, 1920.

(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 2,500 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	—·025	89·5	+1·9	76·2	+0·3	82·8	+1·1	13·4	+0·3	− 3	85	− 3	·876	—·023	8·0	+0·1	11·83	15·30	−3·47
Assam	—·023	88·2	−0·3	75·4	−0·1	81·8	−0·2	12·8	−0·2	− 7	89	− 1	·891	—·018	7·1	−0·4	18·95	17·74	+1·21
Bengal	—·012	92·0	+2·1	78·3	+0·4	85·1	+1·3	13·7	−0·1	− 7	84	− 3	·940	—·017	7·0	−0·1	11·97	14·50	−2·53
Bihar and Orissa	—·009	98·7	+3·2	80·2	+0·8	89·5	+2·0	18·6	+0·4	− 1	70	− 7	·834	—·058	5·8	0	4·70	8·29	−3·59
United Provinces of Agra and Oudh	—·017	103·3	+2·0	81·8	0	92·5	+1·0	21·6	−0·5	+ 1	56	− 8	·745	—·052	3·0	−1·0	4·31	4·31	0
Punjab	—·006	103·7	−2·2	79·4	−2·1	91·6	−2·1	24·3	−0·2	−14	50	+ 1	·639	—·031	2·7	+0·2	1·52	1·79	−0·27
North-West Frontier Province	+·002	107·5	+0·7	76·9	−2·2	92·3	−0·9	30·7	−1·3	− 9	52	+ 5	·679	+·005	1·5	0	0·66	0·96	−0·30
Sind	—·017	103·7	+0·7	84·0	+1·2	93·9	+0·9	19·8	−2·3	−17	63	− 2	·861	—·010	2·3	−0·8	0·31	0·52	−0·21
Rajputana	—·003	98·7	−5·9	78·8	−4·3	88·8	−5·3	19·8	−1·2	−12	64	+ 9	·749	+·043	3·9	+0·8	4·46	2·13	+2·33
Bombay	—·039	91·4	−0·9	76·8	−0·2	84·1	−0·6	14·6	−1·3	− 9	78	+ 1	·825	—·004	6·4	−0·2	7·90	8·83	−0·93
Central India	—·015	98·8	−0·4	79·3	−0·3	89·1	−0·3	19·5	−1·0	− 3	57	− 6	·689	—·055	4·7	−0·6	3·74	4·23	−0·49
Central Provinces	—·006	98·7	+1·6	79·1	+1·5	88·9	+1·6	19·6	+0·9	+ 1	58	− 7	·674	—·062	4·4	−0·8	3·83	7·05	−3·22
Hyderabad	—·001	98·2	+2·4	76·7	+0·8	87·5	+1·6	21·5	+1·9	− 1	63	− 5	·677	—·035	4·5	−1·7	2·69	4·94	−2·25
Mysore	—·009	85·1	+0·9	68·2	+0·4	76·6	+0·7	16·9	+0·1	− 3	79	− 1	·644	—·010	6·8	−1·2	3·88	4·60	−0·72
Madras	—·004	94·3	+0·1	78·3	+0·1	86·3	+0·1	16·0	+0·2	+ 6	72	0	·818	—·003	5·6	−0·8	9·32	7·48	+1·8

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. 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	29·721		29·796	29·774	17th	29·664	7th	80·4	76·9	84·7		75·7		80·2		9·0	88·5	2nd	72·6	30th
	Mergui	66	29·784	−·017	29·780	29·880	15th	29·724	7th & 11th.	77·7	76·5	84·7	−1·1	74·6	+0·9	79·6	−0·1	10·1	92·3	3rd	72·2	20th
	Tavoy	19	29·818	−·027	29·770	29·899	15th	29·747	30th	79·5	76·2	84·0	−0·6	74·9	−0·1	79·4	−0·3	9·1	92·0	1st	72·3	21st
	Moulmein	77	29·721	−·021	29·737	29·800	15th	29·634	10th	77·0	75·6	83·3	−1·4	75·1	+0·2	79·2	−0·6	8·2	89·9	4th	72·0	29th
	Rangoon	18	29·760	−·016	29·716	29·839	15th	29·648	11th	79·8	77·4	86·8	+0·5	76·1	−0·5	81·5	0	10·7	94·4	5th	73·6	26th
	Bassein	27	29·742	−·012	29·706	29·825	15th	29·627	11th	80·6	78·3	87·2	+0·9	75·5	−1·0	81·3	−0·1	11·7	93·7	7th	73·2	25th
	Diamond Island	41	29·712	−·026	29·688	29·800	15th	29·624	11th	83·0	78·8	86·7	+1·2	77·2	+0·4	81·9	+0·8	9·5	90·4	3rd & 5th.	73·4	28th
	Toungoo	164								80·2	77·9	89·5	+0·5	74·3	−1·1	81·9	−0·3	15·2	95·9	6th	71·7	7th
	Kyaukpyu	18	29·682		29·640	29·768	1st	29·596	11th	80·9	79·2	86·2		77·2		81·7		9·0	90·9	8th	73·7	28th
	Akyab	20	29·669	−·026	29·630	29·748	1st	29·587	11th	80·5	78·1	87·2	+1·3	76·2	−1·7	81·7	−0·2	11·0	93·6	7th	73·0	28th
3	Minbu	*168*	29·528	−·034	29·632	29·595	1st	29·463	30th	83·0	77·5	96·1	+3·8	78·8	+1·1	87·5	+2·5	17·3	104·5	6th	76·7	13th
	Yamethin	644	29·076	−·024	29·665	29·159	1st	29·003	11th	81·5	76·3	95·2	+4·1	76·3	+1·0	85·7	+2·5	18·9	100·8	5th	74·4	28th
	Mandalay	250	29·445	−·030	29·638	29·525	1st	29·358	27th	87·3	77·2	100·4	+5·7	80·9	+2·2	90·7	+3·9	19·5	104·7	6th	79·0	18th
	Monywa	*280*	29·418	−·027	29·643	29·508	1st	29·330	27th	84·6	76·9	100·4	+7·1	80·7	+2·2	90·5	+4·7	19·7	105·8	5th	78·1	18th
	Lashio	*2,820*	26·947	−·034	26·893	27·013	1st	26·855	28th	74·9	71·1	86·0	+1·5	70·4	+0·8	78·2	+1·1	15·6	90·7	9th	64·9	7th
	Bhamo	*361*	29·312	−·017	29·624	29·359	6th	29·227	26th	79·8	78·1	92·9	+2·9	75·6	+0·8	84·3	+1·9	17·3	98·1	5th	72·5	3rd
	Myitkyina	463	29·185	−·045	29·605	29·259	5th	29·087	28th	77·8	75·6	90·4	+2·7	75·2	−0·1	82·8	+1·3	15·2	96·6	5th	70·4	7th
	II.—Assam.																					
	Dibrugarh	353	29·278	−·047	29·592	29·381	5th	29·072	27th	77·7	75·9	86·9*	−0·2*	74·0	+0·1	80·4*	−0·1	12·9	95·1	3rd	69·9	4th & 6th.
	Sibsagar	333	29·302	−·044	29·593	29·395	1st	29·177	27th	78·7	76·8	87·1	−1·7	76·9	+0·6	82·0	−0·5	10·2	93·7	2nd	71·7	4th & 6th.
	Tezpur	252	29·403	−·007	29·613	29·491	1st	29·274	28th	78·2	76·3	88·8	+0·3	75·9	−0·7	82·3	−0·2	12·9	96·0	2nd	71·8	6th
	Gauhati	196	29·448	−·022	29·599	29·537	1st	29·327	27th	80·1	77·4	88·5	−0·4	76·1	−0·1	82·5	−0·3	12·7	97·4	2nd	71·7	4th
	Dhubri	115	29·511	−·017	29·580	29·661	8th	29·362	28th	78·9	76·8	85·8	−0·1	75·4	−0·7	80·6	−0·4	10·4	96·1	1st	69·9	6th
	Silchar	104	29·580	−·003	29·637	29·690	1st	29·454	27th	80·6	77·8	89·5	+0·3	76·2	+0·1	82·8	+0·2	13·3	95·4	1st	71·5	5th
	Srimangal	66	29·609		29·624	29·718	1st	29·491	28th	80·0	76·8	90·6	+0·5	73·2	−2·2†	81·9	−0·9†	17·4	98·9	1st	68·3	5th & 6th.
	III.—Bengal.																					
4	Cox's Bazar	36	29·642		29·624	29·728	1st & 2nd.	29·566	26th	82·1	78·4	88·2		76·3		82·2		12·0	92·2	4th	72·2	5th
	Chittagong	87	29·581	−·008	29·613	29·673	1st	29·493	26th	81·4	78·2	89·5	+2·7	76·8	−0·1	83·1	+1·3	12·7	93·2	1st	70·1	4th
	Noakhali	43	29·616	−·002	29·606	29·721	1st	29·537	26th	83·1	79·8	88·7	+1·5	78·2	+1·0	83·4	+1·3	10·5	94·3	1st	69·8	11th
	Barisal	12	29·622†	−·004†	29·581†	29·734	1st	29·555	19th	83·7	81·0	90·1	+1·3	78·4	+0·2	84·2	+0·7	11·7	98·7	1st	71·7	5th
	Narayanganj	26	29·609	−·007	29·584	29·705	1st	29·623	29th	82·8	79·4	90·0	+0·9	77·2	−1·0	83·6	−0·1	12·8	95·7	1st	71·0	8th
	Mymensingh	62	29·575	−·015	29·590	29·662	1st	29·448	26th	80·5	77·5	87·7	+0·3	77·2	+0·4	82·5	+0·3	10·4	97·0	1st	72·2	11th
	Bogra	75	29·540	−·018	29·567	29·619	5th	29·419	26th	80·9	78·4	90·6	+1·1	76·6	−0·6	83·6	+0·3	14·0	98·8	1st	71·3	10th
	Dinajpur	123	29·476	−·022	29·553	29·568	1st	29·340	26th	80·3	77·7	91·5	+2·0	76·8	−0·3	84·1	+0·9	14·7	100·8	1st	69·5	10th
	Jalpaiguri	283	29·346	−·017	29·586	29·455	8th	29·200	28th	79·5	77·1	89·8	+1·5	75·6	−0·1	82·7	+0·7	14·2	98·3	2nd	70·6	7th
	Saugor Island	16	29·590	−·003	29·545	29·712	1st	29·478	21st	85·9	81·0	89·9	−0·6	82·0	+0·4	86·0	−0·1	7·9	92·6	4th	74·7	8th
	Midnapore	149	29·423	−·019	29·528	29·556	1st	29·232	22nd	85·5	78·7	98·8	+4·5	80·6	+1·6	89·6	+3·1	18·0	109·2	3rd	74·1	27th
	Calcutta	21	29·570	−·015	29·538	29·684	1st	29·497	22nd	85·3	80·2	98·5	+5·0	81·1	+2·3	88·8	+3·7	15·4	105·4	2nd	75·8	27th

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

* Mean of 24 days.
† " " 23 "

B.

at 213 stations in India, etc., in June, 1920.

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 1920.	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.
6	0	0	3	3	5	7	5	1	S 26° W		6·0			40		85		·874		8·7		25	+3·0	22·41	31·61	− 9·20	40·81	47·97	− 7·16	3·53	Victoria Point.
9	0	0	6	9	2	3	0	1	S 44° E	S 79° W	4·2	1·3	+2·9	46	−11	95	+ 3	·896	−·002	7·2	+1·0	26	+1·7	28·00	29·47	− 1·47	34·76	46·96	−12·20	3·10	Mergui.
18	0	0	0	6	4	2	0	0	S 16° E	S 55° W	2·1	1·5	+0·6	33	+18	92	0	·881	−·006	9·3	+2·0?	28	+3·0	58·67	42·02	+16·65	73·53	65·80	+ 7·73	2·00	Tavoy.
6	0	2	9	6	5	1	1	0	S 58° E	S 14° E	3·3	2·7	+0·6	53	+ 1	93	+ 1	·866	−·022	9·3	+1·1	30	+4·3	41·86	35·80	+ 6·06	54·84	56·49	− 1·65	5·35	Moulmein
2	0	1	1	5	11	6	3	1	S 9° W	S 37° W	4·5	3·7	+0·8	56	−11	89	− 3	·905	−·023	9·5	+0·8	17	−5·9	10·20	17·95	− 7·75	24·72	30·16	− 5·44	1·30	Rangoon.
14	0	0	0	2	7	3	4	0	S 25° W	S 13° W	3·0	3·4	−0·4	40	−19	90	− 2	·941	−·002	7·1	−0·2	22	−1·4	20·25	22·96	− 2·71	27·37	32·93	− 5·56	3·00	Bassein.
0	0	1	0	0	5	18	3	3	S 49° W	S 39° W	9·1	7·0	+2·1	76	+ 6	88	− 1	·934	+ 013	8·1	0	25	+4·0	33·16	24·20	+ 8·96	37·97	34·98	+ 2·99	5·91	Diamond Island.
2	0	0	0	21	6	1	0	0	S 33° E	S 32° E	4·0	3·7	+0·2	82	− 3	90	+ 1	·915	−·012	8·8	−0·1	18	−2·4	12·78	14·20	− 1·42	19·17	21·64	− 2·47	1·00	Toungoo.
30	0	0	3	4	1	0	2	0	S 45° E		1·2			20		93		·978		8·1		22	−2·0	35·02	38·97	− 3·95	45·18	51·00	− 8·82	5·56	Kyaukpyu.
10	0	3	2	6	5	1	2	1	S 35° E	S 48° E	3·5	2·8	+0·7	30	−22	89	− 4	·925	−·046	8·2	−0·5	22	−1·9	40·61	45·87	− 5·26	49·59	59·08	− 9·49	10·80	Akyab.
0	0	0	0	26	3	1	0	0	S 39° E	S 48° E	4·7	8·5	−3·8	89	+18	77	− 6	·860	−·027	6·9	+0·3	7	−2·9	2·40	5·73	− 3·33	10·82	11·09	− 0·27	0·55	Minbu.
										S 29° E		7·2				78	− 5	·837	−·014	5·9	−0·9	4	−5·0	1·41	5·35	− 3·95	7·11	11·28	− 4·17	0·50	Yamethin.
										S 1° W		6·4				62	−14	·797	−·072	6·2	+0·6	1	−6·6	0·22	5·76	− 5·54	10·57	11·61	− 1·04	0·18	Mandalay.
2	0	0	3	16	8	0	0	1	S 36° E		4·2			76		69	−12	·822	−·067	7·4	−0·8	4	−3·1	1·05	5·71	− 4·66	3·50	11·14	− 7·64	0·45	Monywa.
15	1	0	0	1	5	5	2	1	S 37° W		3·1			30		83	− 4	·707	−·023	8·3	0	12	−3·8	4·95	10·37	− 5·42	10·79	17·06	− 6·27	1·20	Lashio.
30	0	0	0	0	0	0	0	0	Calm	N 81° W	0·7	1·8	−1·1			92	+ 2	·937	+·055?	9·0	+1·2	13	−5·9	5·85	14·18	− 8·33	9·71	20·47	−10·76	1·70	Bhamo.
30	0	0	0	0	0	0	0	0	Calm		2·0					90	0	·849	−·017	8·5	−0·5	16	−3·6	14·03	14·77	− 0·74	16·29	21·24	− 4·95	2·02	Myitkyina.
																															II.—Assam.
21	0	0	4	3	0	1	0	1	S 66° E		0·3			17		92	0	·869	−·005	8·5	+0·7	20	+1·4	17·65	17·95	− 0·30	26·47	28·84	− 2·37	3·73	Dibrugarh.
16	5	3	1	1	1	1	1	1	N 15° E	N 70° E	1·4	2·0	−0·6	17	− 8	91	− 1	·895	−·036	8·4	−0·3	14	−2·8	16·69	13·86	+ 2·83	28·15	25·97	+ 2·18	3·97	Sibsagar.
17	5	5	7	0	1	0	0	0	N 16° E		1·9			37		91	0	·883	−·021	7·2	−0·3	20	+4·6	11·82	11·29	+ 0·53	18·79	20·47	− 1·68	1·56	Tezpur.
4	1	12	6	1	0	2	1	3	N 49° E		1·3			46		88	− 1	·901	−·009	6·9	−1·2	21	+5·1	12·18	14·51	− 2·33	18·91	24·57	− 5·66	1·90	Gauhati.
6	0	7	7	3	2	4	1	0	S 79° E	N 77° E	4·0	4·2	−0·2	33	−11	91	0	·895	−·011	8·2	+0·3	21	+3·3	34·61	23·43	+11·18	47·35	38·71	+ 8·64	6·66	Dhubri.
24	2	0	0	2	0	1	0	1	N	N 85° E	2·2	2·0	+0·2	2	− 3	88	− 1	·914	−·009	6·4	−1·5	23	+2·2	16·90	22·06	− 5·16	29·76	38·28	− 8·52	2·37	Silchar.
																85	− 3	·883	−·038	4·2		20	−0·5	17·22	18·89	− 1·67	35·72	35·78	− 0·06	2·24	Srimangal.
																															III.—Bengal.
9	0	0	2	13	5	0	1	0	S 36° E		3·2			56		84		·923		7·3		17	−2·4	16·79	26·02	− 9·23	26·10	39·26	−13·16	4·61	Cox's Bazar.
1	0	0	10	16	3	0	0	0	S 56° E	S 44° E	3·4	5·1	−1·7	82	+ 8	86	0	·926	+·011	6·4	−0·9	16	−0·4	17·22	20·79	− 3·57	24·57	30·72	− 6·15	3·35	Chittagong.
0	0	0	0	17	9	4	0	0	S 21° E		5·8			87		86	− 2	·972	+·017	5·8	+0·1	15	−3·3	17·23	21·50	− 4·27	26·00	33·47	− 7·47	3·52	Noakhali.
5	0	0	1	7	14	3	0	0	S 10° E	S 17° E	4·3	3·2	+1·1	72	+31	88	+ 1	1·012	+·021	6·0	−1·4	18	+1·3	15·03	16·32	− 1·29	21·92	25·71	− 3·79	2·50	Barisal.
1	0	0	4	9	12	3	1	0	S 19° E	S 32° E	4·5	5·5	−1·0	69	− 1	85	− 4	·955	−·027	6·8	−1·6	13	−1·4	11·65	13·10	− 1·45	21·56	22·71	− 1·15	1·96	Narayanganj.
21	0	1	4	3	1	0	0	0	S 70° E	S 61° E	1·7	2·9	−1·2	23	−44	87	− 2	·910	−·027	9·1	+1·2	14	−4·3	9·80	18·99	− 9·19	20·68	32·40	−11·72	2·37	Mymensingh.
11	0	1	11	0	3	3	1	0	S 63° E	S 66° E	1·0	2·9	−1·9	33	−34	89	+ 2	·939	+·001	7·8	+1·2	13	−1·4	12·95	14·04	− 1·09	18·44	22·54	− 4·40	3·69	Bogra.
1	0	4	16	3	3	2	1	0	S 78° E	S 78° E	4·0	3·2	+0·8	62	−12	87	− 2	·912	−·011	7·0	−0·9	11	−2·8	8·42	14·07	− 5·65	12·11	21·94	− 9·83	1·65	Dinajpur.
15	0	3	2	2	2	1	0	0	N 30° E	S 86° E	1·4			27	−31	90	+ 1	·907	+·007	5·5	−0·2	20	+2·5	24·89	23·07	+ 1·82	28·91	34·38	− 5·47	4·60	Jalpaiguri.
0	0	1	1	1	12	10	5	0	S 27° W	S 11° W	12·6	7·5	+5·1	72	+13	80	− 3	·982	−·045	7·5	−0·6	8	−4·1	3·47	11·19	− 7·63	7·30	15·62	− 8·32	1·04	Saugor Island.
1	1	2	3	4	15	3	1	0	S 13° E		3·3			60		73	− 9	·836	−·059	7·7	+3·3	8	−4·8	5·44	9·89	− 4·45	9·49	15·18	− 5·69	2·40	Midnapore.
1	0	1	3	2	7	13	3	0	S 22° W	S 4° E	4·9	4·3	+0·6	62	+14	80	− 5	·962	−·019	7·4	+0·2	6	−7·0	5·12	11·81	− 6·68	7·71	17·60	− 9·86	2·25	Calcutta.

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. 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
	III.—Bengal—*concld.*																					
	Jessore	30	29·573	−·013	29·546	29·688	1st	29·503	26th	84·5	79·9	94·7	+3·4	79·4	+0·7	87·0	+2·1	15·3	104·1	1st & 3rd	73·8	8th
	Burdwan	99	29·467	−·033?	29·514	29·581	1st	29·397	26th	83·0	75·6	97·3	+3·6	79·1	−0·1?	88·2	+1·7?	18·2	108·4	3rd	72·0	8th
	Berhampore	67	29·525	−·014	29·540	29·605	1st	29·441	26th	84·1	79·5	96·7	+4·3	79·4	+1·0	88·0	+2·7	17·3	106·6	2nd	72·5	8th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·540	−·009	29·534	29·652	1st	29·425	22nd	83·3	78·7	95·5	+2·4	79·1	+0·1	87·3	+1·3	16·4	105·0	3rd	70·6	6th
	Hukitola (False Point)	29	29·598	+·008	29·568	29·722	1st	29·422	21st													
	Cuttack	80	29·542	+·011	29·563	29·629	1st	29·346	21st	84·1	80·0	96·4	+0·6	80·0	−0·1	88·2	+0·3	16·4	105·1	3rd	74·2	11th
	Puri	24	29·615	+·017	29·580	29·738	1st	29·412	21st	83·1	79·9	87·6	−1·6	80·3	−0·6	84·0	−1·1	7·3	91·8	1st	75·0	6th & 19th.
	Angul	455	29·156	+·006	29·551	29·274	1st	28·979	21st	84·8	77·9	96·8	+1·6	79·4	+0·9	88·1	+1·3	17·4	107·8	2nd & 5th.	74·0	12th
	Sambalpur	486	29·115	−·009	29·541	29·232	1st	28·959	22nd	87·2	78·8	100·7	+2·8	81·0	0	90·9	+1·4	19·7	110·0	10th	75·9	20th
7	Chaibassa	*733*	28·844	−·010	29·515	28·961	1st	28·705	22nd	84·8	76·5	98·8	+4·5	80·7	+3·2	89·8	+3·9	18·1	110·1	10th	74·8	14th
	Ranchi	2,133	27·489	0	29·489	27·630	1st	27·363	22nd	83·3	72·3	95·3	+3·0	77·3	+1·8	86·3	+2·4	18·0	105·7	10th	73·1	27th
	Purulia	*816*	28·754	−·012	29·503	28·873	1st	28·644	22nd	86·5	76·1	102·2	+4·8	80·6	+1·8	91·4	+3·3	21·6	111·0	8th	75·5	19th
	Daltonganj	*730*	28·835	−·009	29·409	28·994	1st	28·723	23rd	87·9	75·4	105·1	+4·3	82·4	+1·3	93·8	+2·8	22·7	113·4	10th	75·1	1st
8	Purnea	124	29·458	−·032	29·535	29·569	8th	29·329	26th	82·6	78·6	95·4	+3·5	77·6	+0·2	86·6	+1·9	17·8	104·7	2nd	70·8	7th
	Monghyr	155	29·403		29·508	29·500	1st	29·304	26th	85·7	78·3	100·2		79·4		89·8		20·8	109·2	2nd	74·9	16th
	Darbhanga	165	29·405	−·029	29·524	29·490	8th	29·311	26th	84·4	77·8	98·0	+5·6	78·9	−0·1	88·4	+2·7	19·1	109·4	2nd	73·4	10th
	Pusa	186	29·373		29·513	29·476	1st	29·281	26th	85·9	78·8	101·7		78·9		90·3		22·8	112·9	2nd	74·8	1st
	Patna	183	29·379	−·018	29·514	29·495	1st	29·299	26th	87·8	78·2	100·5	+4·2	80·7	+0·7	90·6	+2·5	19·8	108·0	3rd	72·2	12th
	Buxar	339	29·299	−·028	29·189	29·422	1st	29·218	23rd	86·8	77·4	100·1	+1·9?	81·7	+1·0	90·9	+1·5?	18·4	110·1	7th	76·0	26th
	Gaya	372	29·182	−·016	29·493	29·323	1st	29·109	23rd	91·0	76·8	105·1	+5·3	84·9	+4·2?	95·0	+4·7?	20·2	111·5	15th	79·2	22nd
	Naya Dumka	489	29·033	−·018	29·516	29·202	1st	29·002	26th	86·8	78·3	99·0	+5·3	79·9	+1·6	89·5	+3·5	19·1	109·6	3rd	75·0	8th
	V.—United Provinces of Agra and Oudh.																					
	Gorakhpur	257	29·294	−·027	29·505	29·411	1st	29·204	26th	85·7	77·6	102·5	+5·5	80·2	+0·8	91·4	+3·1	22·3	110·6	2nd	72·0	27th
	Benares	267	29·278	−·015	29·491	29·439	1st	29·176	23rd	92·4	77·2	104·8	+4·0	83·8	+1·8	94·3	+2·9	21·0	112·5	11th	76·5	1st
	Allahabad	309	29·256	+·008?	29·512	29·414	1st	29·136	23rd	92·2	77·5	104·4	+1·8	84·8	+1·9	94·6	+1·9	19·6	115·5	10th	73·0	27th
	Cawnpore	416	29·137	−·002	29·499	29·301	1st	29·045	23rd	90·8	77·7	104·5	+2·8	83·7	+1·3	94·1	+2·1	20·8	113·8	10th	77·7	1st
	Lucknow	368	29·181	−·008	29·496	29·324	1st	29·111	23rd	91·5	77·1	105·8	+4·3	81·6	+0·1	93·8	+2·2	24·2	112·5	10th	75·0	13th
	Bahraich	407	29·130	−·034	29·489	29·265	1st	29·063	26th	87·5	77·0	102·9	+4·4	81·0	+1·2	91·9	+2·8	21·9	111·4	15th	73·2	27th
10	Jhansi	824	28·744	−·022	29·502	28·906	1st	28·601	23rd	89·1	76·1	104·0	+0·2	82·7	−2·3	93·3	−1·1	21·3	115·0	9th	75·4	17th
	Agra	558	28·995	−·009	29·496	29·162	1st	28·878	24th	90·6	76·6	102·6	−1·8	82·3	−2·6	92·4	−2·2	20·3	115·3	9th	73·3	12th
	Mainpuri	516	29·027	−·013	29·483	29·193	1st	28·922	23rd	90·2	75·5	104·5	+0·9	81·1	−1·6	92·8	−0·3	23·4	115·3	9th	73·1	11th
	Bareilly	568	28·968	−·024	29·486	29·115	1st	28·845	24th	87·0	77·3	100·9	+0·6	80·4	+0·2	90·6	+0·4	20·5	113·1	10th	72·9	28th
	Roorkee	899	28·653	−·011	29·497	28·814	1st	28·555	24th	86·2	72·7	99·9	−0·8	77·7	−1·2	88·8	−1·0	22·2	112·3	9th	70·1	27th
	VI.—Punjab.																					
11	Delhi	718	28·847	+·009	29·518	29·034	1st	28·693	24th	84·5	73·9	99·3	−4·3	80·6	−3·2	90·0	−3·7	18·7	112·8	10th	71·7	17th
	Hissar	725	28·823	+·014	29·494	29·034	1st	28·706	26th	88·8	74·5	104·5	−2·4	80·4	−3·2	92·4	−2·8	24·1	115·7	10th	69·1	2nd

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

B—*continued.*

at 213 stations in India, etc., in June, 1920—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N.E. (26)	E. (27)	S.E. (28)	S. (29)	S.W. (30)	W. (31)	N.W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 30th June, 1920. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															III.—Bengal—*concld.*
15	0	0	1	9	2	3	0	0	S 27° E	S 27° E	1·8	3·3	−1·5	37	−15	81	− 7	·957	−·048	6·7	−0·9	11	− 3·3	8·25	12·77	− 4·52	12·12	21·17	− 9·05	3·24	Jessore.
11	0	1	1	2	6	5	2	2	S 23° W	S 4° E	2·1	3·6	−1·5	33	−11	81	− 2	·913	−·037	7·4	−0·1	9	− 3·6	6·70	9·82	− 3·12	10·05	16·19	− 6·14	2·29	Burdwan.
4	0	2	6	7	5	6	0	0	S 53° E	S 36° E	3·9	3·4	+0·5	49	− 3	81	− 6	·919	−·018	7·0	−0·9	9	− 3·0	7·27	9·83	− 2·56	11·98	15·38	− 3·40	2·83	Berhampore.
																															IV.—Bihar and Orissa.
2	1	1	1	1	8	16	0	0	S 26° W	S 32° W	4·3	5·3	−1·0	68	+ 7	81	0	·919	−·033	7·4	+2·1	10	− 1·3	4·37	9·65	− 5·28	8·33	14·50	− 6·17	1·50	Balasore.
0	1	0	3	2	5	12	6	1	S 39° W		13·0			56	−11					7·9	+0·1	8	− 1·8	6·50	8·49	− 1·99	10·55	12·91	− 2·36	2·42	Hukitala (False Point).
7	0	1	1	0	4	11	6	0	S 47° W	S 47° W	3·0	2·9	+0·1	53	− 6	83	+ 5	·964	+·040	6·7	−0·2	7	− 4·3	6·28	9·80	− 3·52	8·50	13·88	− 5·38	1·86	Cuttack.
3	1	0	1	0	5	14	5	1	S 49° W		12·7			63		86	+ 1	·972	−·030	6·3	+0·1	8	+ 0·3	7·97	7·20	+ 0·77	9·39	9·96	− 0·57	2·20	Puri.
13	1	4	1	0	2	3	1	5	N 45° W		5·1			13		73	− 5	·867	−·012	7·7	+2·0?	13	+ 0·9	6·98	7·79	− 0·81	7·96	9·86	− 1·90	1·43	Angul.
0	0	1	2	0	4	22	0	1	S 37° W	S 23° W	4·3	3·8	+0·5	72	+31	62	− 7	·779	−·060	6·0	−0·4	7	− 3·5	5·88	9·93	− 4·05	6·50	11·25	− 4·75	1·40	Sambalpur.
10	0	0	3	0	2	15	0	0	S 31° W	S 52° W	2·6	2·1	+0·5	49	+ 8	68	−10	·799	−·047	6·7	+1·2	11	− 0·5	8·26	8·27	− 0·01	11·40	11·53	− 0·13	2·95	Chaibasa.
0	1	1	3	1	1	4	12	7	N 82° W	S 42° W	4·6	6·4	−1·8	49	+ 5	61	−11	·661	− ·079	5·9	+0·1	10	− 1·6	3·34	9·34	− 6·00	5·05	11·67	− 6·62	0·84	Ranchi.
9	0	0	2	2	0	10	7	0	S 51° W		1·5			47		62	−17	·756	−·123	5·2	+0·2	7	− 3·4	2·07	7·47	− 5·40	3·22	10·43	− 7·21	0·40	Purulia.
11	0	1	4	1	0	9	4	0	S 40° W		5·3			27		55	−11	·711	−·093	4·4	+0·3	4	− 4·8	2·04	6·22	− 4·18	2·56	6·79	− 4·23	0·94	Daltonganj.
0	1	3	19	2	0	1	4	0	N 87° E	N 84° E	4·0	2·9	+1·1	59	− 7	83	− 4	·925	−·007	5·7	−0·8	7	− 4·8	4·62	11·09	− 6·47	7·70	15·54	− 7·84	1·17	Purnea.
6	0	0	7	12	0	1	4	0	S 51° E		3·7			47		72		·869		5·6		8	− 2·4	4·78	10·38	− 5·60	6·94	12·23	− 5·29	1·27	Monghyr.
15	0	0	14	0	0	0	1	0	E	S 75° E	5·4	4·4	+1·0	43	−34	74	− 9	·870	−·057	5·9	+0·3	9	− 0·1	3·70	8·37	− 4·67	4·27	11·30	− 7·03	0·91	Darbhanga.
3	0	0	21	2	1	2	1	0	S 79° E		4·5			67		72		·853		4·1		3	− 6·3	4·48	9·83	− 5·35	6·40	11·75	− 5·35	2·02	Pusa.
7	0	0	18	1	0	0	4	0	S 87° E	S 87° E	6·5	4·1	+2·4	49	−14	65	−12	·836	−·082	4·7	−0·7	5	− 2·9	2·56	8·03	− 5·47	2·59	9·68	− 7·09	1·48	Patna.
3	1	3	9	4	2	2	5	1	S 74° E		4·2			23		65	− 6	·816	−·039?	4·3	−0·6	5	− 2·4	1·97	5·19	− 3·22	3·11	5·87	− 2·76	0·55	Buxar.
1	3	4	1	3	1	13	3	1	S 50° W	S 66° E	4·0	3·6	+0·4	30	+ 7	52	−21?	·734	−·180	3·7	−1·4	3	− 4·7	1·60	7·12	− 5·52	2·14	8·19	− 6·05	0·93	Gaya.
21	0	0	2	5	1	1	0	0	S 43° E		1·6			27		68	−12	·851	−·051	5·4	−0·2	12	+ 0·3	4·27	10·13	− 5·86	8·71	13·61	− 4·90	0·99	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
8	0	0	19	1	0	0	2	0	E	N 81° E	3·0	2·3	+0·7	57	+ 7	70	− 8	·843	−·067	2·0	−2·8	8	− 0·2	8·98	7·56	+ 1·42	9·62	9·06	+ 0·56	4·40	Gorakhpur.
2	1	1	4	4	0	5	11	2	S 69° W	S 89° E	3·6	3·8	− 0·2	27	+ 7	50	−18	·728	−·122	3·5	−1·3	5	− 0·9	0·92	5·04	− 4·12	1·64	5·59	− 3·95	0·32	Benares.
5	0	3	4	0	0	4	14	0	S 86° W	N 46° E	4·8	5·8	−1·0	37	+24	51	− 9	·743	−·050	3·9	−1·0	3	− 2·3	1·02	4·59	− 3·57	1·36	4·90	− 3·54	0·59	Allahabad.
0	3	1	4	1	1	5	10	5	N 81° W	S 59° E	2·6	4·0	−1·4	40	+18	55	− 6	·775	−·019	1·8	−1·7	3	− 1·3	1·20	3·00	− 1·80	2·25	3·37	− 1·12	0·47	Cawnpore.
13	0	7	0	2	0	3	1	4	N 6° E	S 89° E	2·0	3·1	−1·1	14	−22	51	−14	·749	−·064	1·7	−2·8	5	− 0·4	2·93	4·38	− 1·45	4·62	5·37	− 0·75	1·10	Lucknow.
4	2	0	12	6	0	1	1	4	E	S 69° E	3·4	3·6	−0·2	39	−21	62	−12	·792	−·105	1·5	−2·2	5	− 2·0	8·34	5·91	+ 2·43	11·31	7·56	+ 3·75	5·20	Bahraich.
7	2	2	0	1	0	12	5	1	S 67° W	N 89° W	5·2	4·0	+1·2	43	+12	56	0	·726	−·053	3·1	+0·1	4	− 1·5	1·76	4·48	− 2·72	2·40	4·83	− 2·43	0·84	Jhansi.
5	4	0	0	1	2	10	1	4	S 78° W	S 16° W	3·7	4·7	−1·0	43	+17	53	− 1	·725	−·016	3·2	0	6	+ 2·2	3·58	2·41	+ 1·17	3·95	2·88	+ 1·07	2·06	Agra.
3	6	1	2	2	1	2	5	8	N 43° W	N 80° E	2·0	2·1	−0·1	40	+24	50	− 9	·686	−·092	3·4	−1·1	6	+ 1·9	1·50	2·67	− 1·17	2·30	3·16	− 0·36	0·50	Mainpuri.
20	0	0	3	2	0	1	2	2	S 23° E	S 56° E	1·2	3·1	−1·9	2	−39	64	− 3	·808	−·003	5·2	+1·6	8	+ 2·8	5·30	5·01	+ 0·89	5·96	5·76	+ 0·20	3·05	Bareilly.
24	0	0	0	6	0	0	0	0	S 45° E	S 41° E	2·2	2·6	−0·4	20	−21	53	− 6	·617	−·082	3·5	+0·4	7	+ 1·5	8·87	4·98	+ 3·89	9·38	5·86	+ 3·52	2·34	Roorkee.
																															VI.—Punjab.
6	0	3	0	5	1	3	6	3	S 62° W	S 44° E	2·9	3·6	−0·7	17	+ 4	61	+ 8	·696	−·006	3·9	−0·1	6	+ 1·9	4·50	3·06	+ 1·44	5·05	3·68	+ 1·37	1·37	Delhi.
1	3	1	0	2	4	8	10	1	S 65° W	S 27° W	5·5	5·2	+0·3	49	+23	49	0	·661	−·013	2·7	−0·1	1	− 2·1	0·14	1·76	− 1·62	1·29	2·31	− 1·02	0·10	Hissar.

Tabl

(2) Abstract of observations taken at 8 hr

Number of sub-division	Station.	Height of bar-ometer 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
	VI.—Punjab—*concld.*																					
	Patiala	*818*	28·697	—·043	29·464	28·888	1st	28·602	27th	86·7	76·3	102·0	—0·5	78·5	—2·4	90·2	—1·5	23·5	112·2	14th & 17th.	70·8	3rd, 27 & 29th
	Ambala	892	28·647	—·014	29·436	28·827	1st	28·564	28th	87·1	72·6	103·2	+0·2	79·3	—0·9	91·3	—0·3	23·9	114·6	10th	69·4	28th
	Ludhiana	812	28·718	—·008	29·480	28·909	1st	28·606	28th	86·3	71·5	103·1	—2·0	79·7	—1·4	91·4	—1·7	23·4	112·9	10th	72·4	3rd
	Lahore	702	28·818	—·002	29·472	29·047	1st	28·677	28th	89·1	74·0	105·2	—2·2	79·9	—0·2	92·6	—1·2	25·3	111·3	11th	70·9	12th
	Sialkot	830	28·685	—·014	29·467	28·894	1st	28·554	26th	87·4	72·8	101·1	—4·8	76·4	—4·5	88·8	—4·7	24·7	107·5	23rd	67·9	12th
	Rawalpindi	1,674	27·884	—·012	29·468	28·102	1st	27·727	26th	87·7	69·1	102·8	—0·7	74·9	—0·5	88·8	—0·6	27·9	108·9	29th	67·0	12th
12	Khushab	612	28·913	+·007	29·479	29·144	1st	28·742	26th	91·2	72·6	106·8	—0·7	79·1	—3·3	93·0	—2·0	27·7	112·2	8th	64·2	12th
	Lyallpur	605	28·904		29·463	29·125	1st	28·728	26th	89·7	73·7	105·1		79·6		92·4		25·5	113·1	10th	68·9	12th
	Montgomery	558	28·953	+·003	29·467	29·192	1st	28·786	26th	89·3	75·1	104·8	—4·3	81·1	—2·8	93·0	—3·5	23·7	113·1	10th	69·0	13th
	Multan	426	29·067	—·004	29·447	29·303	1st	28·903	26th	89·5	77·2	106·1	—2·2	83·5	—0·7	94·8	—1·5	22·6	113·8	10th	69·6	12th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·435	—·006	29·493	28·678	2nd	28·246	26th	86·4	71·1	103·4	+3·5	73·0	—4·3	91·2	—0·4	36·4	118·2	27th	65·1	12th
	Dera Ismail Khan	590	28·939	+·010	29·486	29·174	1st	28·749	26th	88·9	77·4	105·7	—2·2	80·8	—0·3	93·3	—1·3	24·9	111·2	27th	71·9	1st
	VIII.—Sind.																					
16	Jacobabad	186	29·312	—·003	29·453	29·544	1st	29·148	27th	93·7	77·3	113·2	—0·7	84·7	+0·4	99·1	—0·1	28·5	121·1	10th & 27th.	72·8	12th
	Hyderabad	96	29·425	—·027	29·472	29·639	1st	29·322	23rd	88·6	79·2	105·7	+1·5	83·4	+1·7	94·5	+1·6	22·3	112·5	9th	77·9	8th
	Karachi	13	29·556	—·021	29·520	29·758	1st	29·423	23rd	87·2	81·7	92·3	+1·3	83·8	+1·4	88·0	+1·3	8·5	102·9	14th	81·6	2nd
	IX.—Rajputana.																					
17	Bikaner	*771*	28·796	+·012	29·513	28·977	1st	28·683	26th	87·2	79·5	103·0	—4·1	79·7	—5·8	91·3	—4·9	23·3	116·0	10th	73·6	19th
	Jodhpur	780	28·815	—·005	29·543	28·995	1st	28·713	23rd	84·3	75·4	97·0	—7·6	78·1	—4·6	87·6	—6·1	18·9	111·7	9th	70·3	27th
18	Jaipur	1,431	28·181	—·002	29·538	28·351	1st	28·064	23rd	84·3	73·8	97·3	—6·7	76·6	—5·1	87·0	—5·9	20·7	111·7	10th	68·3	16th
	Ajmer	1,611	28·011	—·011	29·543	28·184	1st	27·910	23rd	81·5	72·8	95·1	—5·9	77·9	—3·8	86·5	—4·9	17·2	109·6	9th	69·4	16th
	Kotah	832	28·755	—·010	29·525	28·930	1st	28·622	23rd	88·1	74·9	101·0	—5·0	81·9	—4·5	91·5	—4·7	19·1	114·8	9th	74·2	17th
	X.—Bombay.																					
19	Deesa	466	29·151	—·033	29·564	29·342	1st	28·997	13th	84·2	77·9	95·9	—6·4	79·1	—1·4	87·5	—3·9	16·8	108·5	8th	74·8	16th
	Bhuj	334	29·253	—·047	29·535	29·457	1st	29·043	12th	84·6	81·4	95·1	—2·4	79·6	—0·2	87·3	—1·3	15·5	108·0	9th	71·7	14th
	Jamnagar	61	29·534	—·068	29·542*	29·757	1st	29·207	12th	83·8*	77·8*	95·3*	P	77·1*	P	86·2*	P	18·2	103·9	9th	70·6	12th
	Dwarka	37	29·582	—·053	29·565	29·789	1st	29·270	11th	84·3	80·7	88·8	—0·2	81·9	0	85·4	—0·1	6·9	94·4	10th	75·9	14th
	Rajkot	429	29·160	—·078	29·533	29·376	1st	28·694	12th	83·7†	77·1†	96·1‡	—1·8	79·5†	+1·7	88·8‡	—0·1	18·6	106·4	6th	74·5	12th
	Veraval	*18*	29·605	—·066	29·566	29·809	1st	29·003	11th	82·3	79·7	84·6	—1·8	80·6	—0·6	82·6	—1·2	4·0	87·4	7th	73·8	14th
	Bhavnagar Para	55	29·566	—·069	29·567	29·763	1st	29·030	12th	84·0	74·4	96·2	—3·6	78·8	—1·5	87·5	—2·5	17·4	108·2	8th	71·4	12th
	Surat	39	29·614	—·053	29·596	29·790	1st	29·267	12th	84·6	79·0	91·9	—1·5	79·7	+0·1	85·8	—0·7	12·2	108·9	8th	72·9	13th
	Ahmadabad	163	29·469	—·041	29·579	29·657	1st	29·223	12th	84·1	78·1	97·3	—4·2	78·6	—2·7	87·9	—3·5	18·7	111·6	8th	61·9	13th
25	Bombay	37	29·676	—·034	29·653	29·799	29th	29·485	12th	83·4	78·4	89·1	+1·1	80·8	+1·1	85·0	+1·1	8·3	94·4	8th	75·9	11th
	Ratnagiri	207	29·539	—·029	29·685	29·644	30th	29·353	7th	82·4	77·4	87·3	+0·5	77·7	+0·3	82·5	+0·4	9·6	91·7	4th	72·7	11th
	Marmagao	*60*	29·713	—·032	29·767	29·813	29th	29·571	7th	82·3	79·4	86·2	—0·5	76·9	—0·7	81·5	—0·6	9·3	90·9	4th	74·3	1st
	Karwar	44	29·739	—·031	29·717	29·829	29th	29·612	7th	80·5	77·7	86·0	+0·8	77·1	+0·9	81·6	+0·9	8·9	92·2	2nd	74·5	17th

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

* Mean of 13 days.
† " " 24 "
‡ " " 23 "

—*continued.*

at 213 stations in India, etc., in June, 1920—*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 1920.	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.
4	1	3	3	5	0	5	8	1	S 45° W		7·5			13		63	+ 6	·772	+·028	3·8	+1·3	7	+3·7	7·39	2·21	+5·18	7·82	2·92	+4·90	3·67	Patiala.
9	4	0	3	7	1	2	3	1	S 47° E	S 61° E	3·6	1·8	+1·8	13	−39	51	− 8	·607	−·126	4·8	+2·6P	7	+2·0	4·00	3·85	+0·15	5·90	4·70	+1·20	1·50	Ambala.
21	3	3	0	1	1	0	0	1	N 28° E	S 37° E	1·4	2·0	−0·6	17	−20	48	− 2	·574	−·089	3·5	+1·2	5	+1·4	2·50	2·60	−0·10	3·44	3·26	+0·18	0·92	Ludhiana.
7	0	4	3	6	1	0	3	6	N 56° E	S 60° E	2·2	2·6	−0·4	10	−20	47	− 3	·640	−·045	2·0	−0·4	0	−3·0	0·08	1·76	−1·68	0·73	2·48	−1·75	0·04	Lahore.
2	5	6	6	4	2	1	2	2	N 60° E	N 81° E	2·4	2·3	+0·1	33	−11	48	− 2	·614	−·065	1·6	+0·1	2	−1·7	1·22	2·50	−1·28	4·21	3·58	+0·63	1·08	Sialkot.
13	0	4	1	4	3	0	4	1	S 40° E	N 89° E	2·4	2·0	+0·4	10	−10	37	− 7	·482	−·077	0·6	−1·9	1	−2·5	0·29	2·07	−1·78	1·51	3·37	−1·86	0·23	Rawalpindi.
7	5	3	3	3	3	1	2	3	N 36° E	N 69° E	5·2	5·2	0	13	−39	39	− 2	·554	−·034	1·7	+0·3	1	−1·5	0·48	1·45	−0·97	1·14	2·16	−1·02	0·41	Khushab.
1	2	0	2	2	5	10	3	5	S 52° W		3·4			43		47		·618		3·5		2	−0·4	1·25	1·55	−0·30	1·60	1·90	−0·30	0·83	Lyallpur.
8	3	1	1	0	3	7	3	4	S 81° W	S 3° W	4·5	6·9	−2·4	30	− 7	51	+11	·679	+·070	2·9	+1·6	2	+0·5	0·63	0·99	−0·36	1·53	1·31	+0·22	0·38	Montgomery.
9	4	2	0	4	3	3	1	4	N 79° W	S 3° W	2·0	2·4	−0·4	6	−24	56	+ 6	·765	+·042	1·2	−0·5	1	−0·3	1·19	0·64	+0·55	3·02	0·93	+2·09	1·15	Multan.
																															VII.—North-West Frontier Province.
25	2	1	0	0	1	0	1	0	N 11° W	N 6° W	0·7	3·2	−2·5	6	−16	47	+ 6	·571	+·008	0·7	−1·1	1	+0·1	0·27	0·36	−0·09	0·54	1·24	−0·70	0·19	Peshawar.
18	0	6	0	2	0	0	0	4	N 27° E	N 51° E	1·8	1·8	0	23	− 3	59	+ 4	·786	+·002	2·4	+1·1	2	+0·8	2·09	0·66	+1·43	3·97	1·05	+2·92	1·79	Dera Ismail Khan.
																															VIII.—Sind.
14	1	0	1	12	1	0	0	1	S 48° E	S 51° E	1·6	3·9	−2·3	40	−15	47	− 8	·719	−·112	0·2	−0·7	1	+0·6	1·00	0·20	+0·80	1·38	0·33	+1·05	1·00	Jacobabad.
1	1	1	2	0	5	19	1	0	S 35° W	S 39° W	9·2	12·8	−3·6	69	−12	64	+ 2	·865	+·058	1·2	−1·3	0	−0·8	0	0·49	−0·49	0·87	0·64	+0·23	0	Hyderabad.
0	0	1	2	1	1	10	13	2	S 70° W	S 75° W	11·8	12·8	−1·0	62	−24	79	− 1	1·000	+·023	5·4	0	0	−0·7	0	0·97	−0·97	0·33	1·02	−0·19	0	Karachi.
																															IX.—Rajputana.
2	0	0	4	2	10	9	2	1	S 12° W	S 38° W	7·2	6·9	+0·3	59	− 8	71	+17	·905	+·128	2·7	+0·8	6	+3·6	5·10	1·43	+3·67	5·99	2·01	+3·98	1·67	Bikaner.
4	1	3	1	1	1	18	1	0	S 41° W		4·5			49		66	+ 9	·761	+·034	5·6	+2·5P	7	+4·9	4·76	1·26	+3·50	7·21	1·49	+5·72	2·20	Jodhpur.
6	1	2	1	1	1	4	9	5	N 84° W	S 88° W	3·7	5·0	−1·3	40	+ 3	61	+ 8	·696	0	4·4	+1·1	7	+3·2	9·76	2·17	+7·59	10·89	2·69	+8·20	3·43	Jaipur.
12	0	1	1	0	1	6	8	0	S 67° W	S 84° W	4·2	6·9	−2·7	40	−30	66	+ 5	·695	−·060P	2·6	−0·5	9	+6·7	7·14	2·24	+4·90	7·72	2·77	+4·95	2·15	Ajmer.
4	4	0	0	1	1	12	5	3	S 75° W		2·3			53		54	+ 6	·689	+·009	4·3	+1·9	5	+0·8	4·64	2·54	+2·10	4·78	3·03	+1·75	1·85	Kotah.
																															X.—Bombay.
0	2	1	2	2	3	17	2	1	S 40° W	S 69° W	9·0	12·2	−3·2	56	− 7	75	+ 8	·873	+·057	6·6	+1·1	5	+1·9	5·87	2·08	+3·79	11·93	2·26	+9·67	1·84	Deesa.
0	2	0	1	1	1	13	11	1	S 67° W	S 72° W	10·4	12·9	−2·5	69	− 9	87	+13	1·031	+·123P	5·7	+0·5	4	+1·7	4·65	1·84	+2·81	4·73	1·90	+2·83	2·88	Bhuj.
0	0	2	3	0	0	3	4	1	W (*a*)		1·5*			18*		79*		·889*		4·9	−0·1	6	+3·2	22·71	1·94	+20·77	22·96	1·96	+21·00	13·30	Jamnagar.
0	2	0	2	1	6	12	6	1	S 45° W		15·1			56		85	+ 5	1·001	+·030	4·5	−0·4	4	+1·3	4·60	2·48	+2·12	4·63	2·49	+2·14	3·90	Dwarka.
0	2	0	1	2	2	18	3	2	S 49° W	S 81° W	13·8	10·3	+3·5	62	−12	73†	− 1P	·838†	−·042	7·3	+1·9P	6	+0·9	9·72	4·37	+5·35	13·25	4·53	+8·72	5·77	Rajkot.
0	2	0	0	3	1	7	15	1	S 74° W (*b*)	S 69° W	14·9†	8·3	+6·6	62	− 7	89	+ 5	·975	+·005	6·0	−0·1	6	+1·7	11·96	4·27	+7·59	12·83	4·31	+8·52	4·64	Veraval.
0	1	0	0	3	1	14	9	2	S 60° W	S 48° W	8·0	11·5	−3·5	70	−10	75	+ 4	·867	−·023	6·1	−1·6	6	+1·1	7·84	4·56	+3·28	11·06	4·68	+6·38	2·94	Bhavnagar Para.
2	1	1	0	2	9	10	4	1	S 33° W	S 49° W	7·8	9·6	−1·8	59	−11	78	+ 1	·910	−·011	6·9	+0·4	9	+1·1	9·58	8·61	+0·97	9·63	8·70	+0·93	3·69	Surat.
9	1	0	0	4	0	12	1	3	S 47° W	S 61° W	2·9	5·6	−2·7	40	−19	76	+ 8	·883	+·032	5·3	−1·2	6	+0·8	8·41	4·60	+1·81	10·63	4·71	+5·92	1·61	Ahmadabad.
1	1	1	1	1	3	9	11	2	S 67° W	S 58° W	10·2	11·1	−0·9	56	+ 8	79	− 3	·902	−·027	6·9	−0·7	9	−5·3	8·16	13·78	−10·62	8·16	19·42	−11·26	3·79	Bombay.
1	2	1	0	2	2	8	11	3	S 76° W	S 60° W	9·7	7·4	+2·3	56	+25	78	− 5	·861	−·035	7·0	−0·4	22	+2·1	16·34	28·97	−12·13	16·84	30·08	−13·24	4·09	Ratnagiri.
3	0	0	2	3	4	4	13	1	S 56° W	N 76° W	9·2	8·0	+1·2	46	− 3	87	+ 1	·964	+·036	8·1	+0·6	25	+5·0	23·34	30·13	−6·79	24·45	31·81	−7·36	6·24	Marmagao.
28	0	0	0	0	0	4	0	0	S 45° W	S 82° W	3·3	4·4	−1·1	13	−29	88	+ 4	·910	+·048	8·0	+0·7	25	+2·3	29·61	37·64	−8·03	30·02	40·25	−10·23	4·27	Karwar.

* Mean of 13 days.
† " " 21 "
‡ " " 29 "
(*a*) Wind observations for 13 days.
(*b*) " " " 29 "

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. 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
	X.—Bombay —*concld.*																					
26	Malegaon	1,430	28·251	−·029	29·598	28·393	1st	28·075	19th	83·6	73·7	96·8	+1·1	75·6	+0·5	86·2	+0·8	21·2	106·7	4th	71·3	13th
	Ahmadnagar	2,154	27·594	−·015	29·634	27·712	4th	27·492	23rd	79·0	70·9	93·9	+2·1	71·5	−0·6	82·7	+0·7	22·4	110·0	3rd	68·5	27th
	Poona	1,846	27·917	+·005?	29·678	28·042	4th	27·753	12th	78·0	71·8	88·9	−0·9	72·1	−0·5	80·5	−0·7	16·8	101·0	2nd	63·0	6th
	Sholapur	1,590	28·146	−·019	29·652	28·236	28th	28·053	21st	80·0	70·9	95·9	+0·7	72·8	−0·8	84·3	−0·1	23·1	102·0	6th	69·3	12th
	Bijapur	*1,948*	27·815	−·010	29·666	27·906	29th	27·713	7th	78·6	71·9	91·8	+0·1	72·1	+0·3	82·0	+0·2	19·7	99·7	2nd	69·5	28th
	Belgaum	2,562	27·263	0	29·721	27·346	29th	27·117	7th	72·3	70·1	81·5	+0·3	68·8	+0·8	75·1	+0·6	12·7	92·2	17th	66·2	30th
	XI.—Central India.																					
20	Neemuch	1,626	28·005	−·031	29·543	28·171	1st	27·877	23rd	82·2	74·5	94·7	−4·0	76·1	−1·7	85·4	−2·9	18·6	108·7	9th	71·8	16th
	Indore	1,823	27·845	−·010	29·566	28·015	1st	27·711	23rd	83·5	73·1	96·2	+0·9	75·8	+0·2	86·0	+0·5	20·4	108·9	8th	72·1	23rd, & 28
21	Nowgong	754	28·819	−·006	29·5[illegible]9	28·900	1st	28·664	23rd	88·8	74·7	102·6	0	82·8	−0·5	92·6	−0·3	20·0	114·1	9th	75·6	17th
	Sutna	1,041	28·534	−·002	29·502	28·675	1st	28·389	23rd	90·8	74·3	101·7	+1·6	82·8	+0·9	92·3	+1·3	18·8	110·8	10th	77·8	24th, 25th
	XII.—Central Provinces.																					
22	Buldana	2,134								80·7	71·5	95·2	+2·6	74·7	+1·2	85·0	+1·9	20·5	102·8	8th	69·4	20th
	Akola	925	28·752	−·006	29·608	28·864	1st	28·618	22nd	85·7	73·3	101·5	+2·7	80·6	+2·6	91·1	+2·7	20·9	110·6	6th	73·1	21st
	Amraoti	1,215	28·452	−·008	29·587	28·584	1st	28·311	22nd	85·7	72·6	100·7	+2·9	80·1	+2·8	90·4	+2·9	20·6	108·6	7th	72·0	28th
23	Khandwa	1,044	28·611	−·019	29·584	28·762	1st	28·483	23rd	85·7	74·1	100·1	+1·7	79·0	0	89·5	+0·9	21·1	111·5	8th	70·9	21st
	Hoshangabad	1,006	28·637	−·005	29·571	28·803	1st	28·494	22nd	86·0	77·5	100·3	+0·8	79·0	−0·7	89·7	+0·1	21·3	111·3	8th	69·4	22nd
	Saugor	1,807	27·801	−·035	29·508	27·934	1st	27·646	23rd	82·6	71·8	97·3	−1·5	77·2	−1·2	87·3	−1·3	20·1	109·0	9th	71·2	17th
	Jubbulpore	1,327	28·273	−·017	29·512	28·414	1st	28·117	22nd	86·8	73·4	98·7	+0·6	80·6	+1·7	89·7	+1·1	18·1	108·9	9th	74·3	13rd 24th
	Seoni	2,033	27·634	+·004	29·547	27·758	2nd	27·476	22nd	84·0	71·5	95·7	+0·3	77·2	+1·7	86·4	+1·0	18·5	104·0	8th	71·1	21st
	Nagpur	1,017	28·644	+·013	29·585	28·750	2nd	28·467	21st	87·7	74·3	100·9	+1·7	82·1	+3·1	91·5	+2·4	18·8	107·3	5th	73·7	21st
24	Pendra	2,040	27·609	+·017	29·526	27·732	2nd	27·427	27nd	84·5	71·7	96·6	+1·9	77·5	+0·5	87·0	+1·2	19·1	103·9	10th & 14th.	73·2	23rd 24th
	Raipur	970	28·650	−·003	29·541	28·778	1st	28·476	22nd	88·6	75·4	100·9	+3·1	82·5	+3·6	91·7	+3·2	18·4	107·9	9th	73·3	23rd
	Chanda	*634*	29·030	−·005	29·597	29·120	1st	28·880	21st	87·8	75·1	101·9	+2·6	82·8	+3·0	92·3	+2·8	19·1	108·1	1st	75·0	20th, 23rd
	Jagdalpur	1,813	27·891		29·596	28·010	1st	27·697	21st	83·0	73·6	93·7		75·5		84·6		18·2	101·2	10th, 11th & 12th.	70·1	1st
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·827	−·019	29·631	27·935	1st	27·714	12th	80·7	70·4	96·2	+1·7	74·3	+1·5	85·2	+1·6	21·9	103·9	4th	70·3	27th
	Nizamabad	1,248	28·461	−·029?	29·628	28·564	3rd	28·320	21st	83·9	73·0	100·9	+3·7	78·0	+0·8	89·5	+2·3	22·9	108·1	2nd	72·0	21st
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·240	−·013	29·666	28·329	29th	28·127	21st	79·0	71·8	97·7	+2·2	73·8	−0·2	85·7	+1·0	23·9	103·8	2nd	68·2	18th
	Raichur	*1,311*	28·449	+·004	29·681	28·541	29th	28·336	21st	82·0	73·5	97·6	+2·5	75·4	+0·4	86·5	+1·5	22·2	103·0	2nd	72·8	22nd
	Hyderabad (Deccan)	1,719	28·036	+·017	29·653	28·111	29th	27·894	21st	81·8	73·1	96·9	+2·3	77·0	+0·8	87·0	+1·5	19·9	103·2	5th	71·4	22nd
	Hanamkonda	877	28·827	+·008	29·620	28·922	3rd	28·679	21st	86·6	73·8	100·0	+2·0	81·5	+1·7	90·2	+1·9	18·5	105·6	6th	73·2	22nd
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·[illegible]05	−·013	29·695	27·487	29th	27·308	7th	75·5	69·5	88·4	+2·1	71·0	+0·9	79·7	+1·5	17·4	94·3	2nd	68·7	30th
	Hassan	3,149	26·789	+·001?	29·737	26·801	29th	26·628	7th	71·5	68·1	81·2	+0·6	66·5	+0·5	73·9	+0·5	14·7	88·7	2nd	64·1	3rd
	Bangalore	3,021	26·859	−·002	29·735	26·930	29th	26·782	7th	72·2	68·1	86·1	+1·2	67·1	+0·2	76·6	+0·7	19·0	92·0	2nd	63·9	30th
	Mysore	2,518	27·341	−·013	29·744	27·413	29th	27·257	7th	73·7	69·1	84·5	−0·3	68·1	0	76·2	−0·1	16·4	91·0	3rd	65·4	4th

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

B—*continued.*

at 213 stations in India, etc., in June, 1920—*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 May to 30th June, 1920.	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	5	0	16	3	5	S 52° W	S 81° W	9·0	10·2	−1·2	56	−17	62	− 6	·706	−·033	5·3	+0·3	4	−3·1	1·85	4·56	−2·71	2·82	5·35	−2·53	1·10	Malegaon.
0	2	1	0	1	4	8	9	5	S 76° W	N 88° W	7·6	11·8	−4·2	56	+ 1	63	− 8	·651	−·064	4·5	−1·0	4	−3·5	1·89	5·13	−3·24	1·89	5·92	−4·03	0·77	Ahmadnagar.
4	0	0	3	0	0	7	15	1	S 76° W	S 82° W	10·2	11·9	−1·7	59	−22	74	+ 2	·703	+·007	8·9	+1·9?	8	+0·4	4·35	5·01	−0·66	4·35	6·09	−1·74	2·29	Poona.
1	1	0	0	0	2	10	9	7	S 82° W	S 81° W	10·8*	10·0	+0·8	69	− 8	63	− 4	·642	−·033	6·0	−0·6	3	−3·7	1·14	4·77	−3·63	2·86	5·69	−2·83	0·66	Sholapur.
0	0	1	1	0	2	9	12	5	S 79° W	S 78° W	6·4	7·1	−0·7	66	−13	72	− 4	·699	−·012	5·2	−1·2	4	−1·6	3·83	3·19	+0·64	4·01	4·39	−0·38	2·18	Bijapur.
5	0	0	0	1	3	8	13	0	S 62° W	S 75° W	5·0	16·7	−11·7	66	− 4	90	+ 4	·607	−·083?	9·0	+0·9	14	+0·6	6·63	8·24	−1·61	8·60	10·63	−2·03	1·20	Belgaum.
																															XI.—Central India.
6	0	0	4	0	2	0	17	1	S 85° W	S 81° W	6·2	9·8	−3·7	43	−28	70	+ 1	·759	−·020	4·0	0	9	+4·1	6·88	4·01	+2·87	10·03	4·45	+5·58	2·10	Neemuch.
1	2	0	0	2	4	2	12	7	W	S 87° W	6·6	5·1	+1·5	56	−18	62	−10	·684	−·084	4·7	−1·2	5	−2·5	4·19	5·55	−1·36	5·06	6·03	−0·97	2·40	Indore.
2	0	0	4	1	0	5	13	5	S 87° W	S 88° W	3·7	3·4	+0·3	49	+ 1	51	− 6	·666	−·071	5·8	+0·2	3	−3·1	1·85	6·24	−4·39	2·16	6·58	−4·42	0·79	Nowgong.
1	1	0	2	0	4	9	11	2	S 65° W	S 84° W	5·0	7·1	−2·1	62	+33	46	− 9	·646	−·047	4·1	−1·3	3	−3·3	0·70	5·59	−4·89	1·45	6·05	−4·60	0·21	Satna.
																															XII.—Central Provinces.
0	0	0	1	2	0	6	14	7	S 87° W		9·1	8·0	+1·1	70		64		·656		5·3		5	−4·2	11·27	6·71	+4·56	11·37	7·20	+4·17	4·46	Buldana.
0	1	0	0	0	2	7	13	7	S 88° W	N 81° W	8·5	7·2	+1·3	76	+ 3	55	−11	·651	−·099	5·2	−0·9	4	−4·1	3·00	5·27	−2·27	3·19	5·63	−2·44	1·79	Akola.
1	0	1	0	0	0	9	8	11	N 85° W	S 87° W	8·6	6·5	+2·1	69	− 9	54	−15	·631	−·131	4·5	−1·2	1	−7·6	1·28	6·55	−5·27	1·33	7·09	−5·76	1·12	Amraoti.
0	2	0	0	0	3	5	16	4	S 86° W	N 87° W	8·5	7·5	+1·0	72	−10	58	− 8	·687	−·049	5·7	+0·6	6	−0·9	8·10	5·18	+2·92	8·23	5·54	+2·69	4·74	Khandwa.
4	0	0	0	1	0	19	1	5	S 59° W	S 62° W	4·0	3·7	+0·3	63	− 5	69	+ 3	·828	+·037?	4·8	−0·6	5	−3·0	5·49	5·70	−0·21	6·40	6·19	+0·21	3·07	Hoshangabad.
1	0	0	0	0	0	5	17	7	N 87° W	S 80° W	6·5	4·7	+1·8	82	+15	60	− 1	·633	−·056	4·1	−0·6	9	+1·1	6·86	6·64	+0·22	8·32	7·10	+1·22	1·99	Saugor.
0	0	0	1	3	4	9	9	4	S 57° W	S 70° W	3·5	3·7	−0·2	59	0	54	− 7	·651	− 050	4·0	−0·7	6	−2·9	3·89	7·50	−3·61	3·19	7·96	−4·07	2·10	Jubbulpore.
1	3	0	0	0	3	6	12	5	S 88° W	S 86° W	5·2	4·2	+1·0	66	+10	54	− 9	·611	−·075	4·4	−0·4	7	−4·3	4·09	8·86	−4·77	4·65	9·50	−4·85	1·60	Seoni.
0	0	0	0	0	0	3	18	9	N 81° W	S 87° W	7·3	6·6	+0·7	86	+27	53	−11	·669	−·063	3·9	−2·2	5	−5·2	5·19	8·78	−3·59	5·50	9·53	−4·03	1·73	Nagpur.
13	2	0	0	1	3	3	3	5	S 88° W		5·0			26		54	− 6	·620	−·036	3·7	−1·7	9	−2·5	4·38	7·50	−3·12	4·75	8·34	−3·59	1·25	Pendra.
8	1	0	1	0	2	8	9	1	S 68° W	S 56° W	5·9	7·1	−1·2	49	−27	54	−10	·704	−·026	6·3	+0·1	5	−4·6	2·93	8·05	−5·12	3·44	8·95	−5·51	1·14	Raipur.
0	0	0	1	1	2	12	11	3	S 66° W	S 61° W	6·6	4·5	+2·1	72	+ 7	55	− 7	·705	−·033	5·0	−1·3	7	−2·5	3·92	7·32	−3·40	3·94	7·94	−4·00	1·41	Chanda.
1	2	0	1	0	14	10	2	0	S 23° W		4·2			69		65		·716		0·9		11	+1·5	6·12	9·13	−3·01	7·02	11·52	−4·50	1·31	Jagdalpur.
																															XIII.—Hyderabad
0	3	0	0	0	4	6	16	1	S 78° W		13·0			69		60	− 9	·616	−·081	5·2	−0·7	2	−5·6	0·66	5·74	−5·08	0·66	6·44	−5·78	0·46	Aurangabad.
1	1	0	1	0	2	9	14	2	S 74° W		5·7			72		60	− 9	·675	−·082	5·1	−1·0	7	−1·0	5·22	5·40	−0·18	5·64	5·71	−0·07	2·78	Nizamabad.
																															Bidar.
0	2	0	0	1	1	8	16	2	S 81° W	S 86° W	11·4	10·3	+1·1	72	+ 5	70	− 3	·688	−·039	3·0	−3·6	3	−4·1	2·88	4·81	−1·93	4·14	5·79	−1·65	1·30	Gulbarga.
0	1	1	0	1	0	3	21	3	N 88° W	S 74° W	14·3	10·2	+4·1	79	+ 4	66	− 3	·718	+·006	5·1	−0·5	4	−1·8	1·47	3·56	−2·09	2·96	4·35	−1·59	0·62	Raichur.
2	2	0	0	0	0	6	11	6	N 85° W	N 87° W	7·2	6·6	+0·6	72	−12	66	− 2	·707	+·014	4·0	−2·6	5	−1·6	3·38	4·64	−1·26	6·54	5·52	+1·02	1·60	Hyderabad (Deccan).
1	0	1	2	3	1	4	10	8	N 88° W		6·6			45		53	− 6	·659	−·027	4·3	−1·8	5	−2·3	2·69	5·78	−3·09	3·20	6·42	−3·22	0·98	Hanamkonda.
																															XIV.—Mysore.
1	0	0	0	1	3	11	12	2	S 64° W	S 68° W	6·9	8·1	−1·2	72	−14	73	− 6	·643	−·031	6·2	−1·7	3	−3·2	0·55	3·04	−2·49	4·25	6·02	−1·77	0·90	Chitaldrug.
4	0	0	0	0	0	8	18	0	S 76° W	S 82° W	7·3	3·7	+3·6	83	+ 2	84	+ 1	·648	+·005	6·1	−2·3	9	−1·0	3·04	4·03	−0·99	5·39	8·85	−3·46	0·73	Hassan.
0	0	0	0	0	0	12	16	1	S 73° W	S 70° W	8·2	6·8	+1·4	86	− 3	80	0	·633	−·006	7·8	+0·5	7	+1·2	3·38	2·94	+0·44	5·77	7·10	−1·33	1·21	Bangalore.
1	0	0	0	0	4	16	9	0	S 53° W	S 62° W	7·2	10·7	−3·5	82	+ 1	79	− 1	·652	−·007	7·1	−1·2	6	−0·6	1·82	3·09	−1·27	4·78	8·37	−3·59	0·40	Mysore.

* Mean of 28 days.

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. 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
	XV.—Madras.																					
30	Mangalore	72	29·761	—·026	29·764	29·853	30th	29·654	6th	79·2	76·2	85·1	−0·2	74·5	+0·5	79·8	+0·1	10·6	91·4	4th	68·1	16th
	Calicut	27	29·832	—·009	29·788	29·906	30th	29·753	7th	76·6	75·6	81·7	—3·0	74·3	−0·8	78·1	−1·9	7·4	90·8	3rd	72·1	6th
	Cochin	9	29·875	—·002	29·812	29·978	30th	29·815	2nd	78·1	75·2	84·2	−1·1	74·1	−0·7	79·2	−0·9	10·1	91·0	3rd	72·0	6th
	Trivandrum	198	29·694	+·011	29·824	29·808	30th	29·614	2nd	76·7	74·6	82·5	—0·5	73·8	—2·0	78·1	—1·3	8·7	88·4	2nd	71·0	19th
31	Pamban	37	29·782	—·003	29·746	29·884	30th	29·718	7th	83·9	78·7	92·2	+2·0	80·7	+0·4	86·5	+1·2	11·5	94·2	3rd	79·5	23rd
	Madura	447	29·372	+·009	29·746	29·478	30th	29·288	7th	84·5	75·0	96·6	−1·4	78·0	+0·9	87·3	−0·3	18·6	101·9	26th	73·2	19th
	Pudukkottai	318	29·493	+·003	29·739	29·582	30th	29·434	7th	83·9	75·7	97·9	—1·0	77·7	—0·6	87·8	—0·8	20·2	104·1	26th	72·1	28th
	Negapatam	31	29·766	—·002	29·726	29·853	29th	29·707	11th	85·2	77·6	97·4	—0·2	79·7	+0·3	88·6	+0·1	17·7	101·7	7th	72·1	2 8h
	Trichinopoly	255	29·547	—·004	29·733	29·633	29th	29·477	7th	84·9	74·9	98·8	—0·2	78·2	—0·4	88·5	−0·3	20·6	107·6	8th	73·8	18th
	Coimbatore	1,341	28·487	+·003	29·754	28·564	29th	28·407	7th	77·7	71·8	87·6	−2·0	71·6	—0·2	79 6	−1·1	16·0	94·7	2nd	69·5	22nd
	Salem	913	29·903	+·007	29·746	29·989	29th	29·829	7th	80·4	73·4	96·2*	+0·9	75·2*	+0·7	85·7*	+0·8	21·0	100·2	27th	73·5	20th
	Cuddalore	37	29·738	—·007	29·704	29·831	29th	29·670	20th	86·5	76·3	98·3	—0·6	80·6	+0·6	89·5	0	17·7	104·3	11th	75·4	29th
	Vellore	707	29·060	—·014	29·693	29·141	29th	28·979	20th	84·9	75·6	100·8	+3·9?	79·7	+1·1	90·2	+2·5?	21·1	104·0	7th	73·5	30th
	Madras	22	29·729	—·013	29·682	29·817	29th	29·659	20th	84·4	76·2	99·9	+0·1	81·5	+0·6	90·7	+0·3	18·4	106·1	7th	75·1	29th
32	Cuddapah	428	29·330	—·012	29·688	29·431	29th	29·232	21st	87·2	75·9	102·0	+1·8	80·5	0	91·3	+0·9	21·5	106·1	7th	70·3	11th
	Bellary	1,475	28·296	—·011	29·686	28·394	29th	28·198	21st	82·1	72·9	97·1	+2·3	76·3	+0·5	86·7	+1·4	20·8	102·3	2nd	73·5	2nd
	Kurnool	923	28·832	—·004	29·684	28·927	29th	28·732	21st	82·5	75·0	99·1	+2·0	78·3	+1·2	88·7	+1·6	20·8	105·2	2nd	72·2	19th
33	Nellore	66	29·657	—·014	29·657	29·743	29th	29·565	21st	88·3	77·1	102·1	+0·5	81·6	—0·5	91·9	0	20·5	106·4	10th	76·2	18th
	Masulipatam	15	29·692	—·007	29·642	29·772	4th	29·557	21st	87·6	80·2	99·4	+1·2	81·2	+0·7	90·3	+0·9	18·2	107·4	11th	78·3	20th
	Cocanada	26	29·667	+·005	29·630	29·769	1st	29·515	21st	85·6	80·0	97·2	+0·5	81·4	+0·3	89·3	+0·4	15·8	105·3	11th	75·6	20th
	Vizagapatam	38	29·622	+·002	29·598	29·734	1st	29·421	21st	86·2	79·6	91·7	+0·3	81·7	+1·4	86·7	+0·9	10·0	102·0	10th	69·8	23rd
	Calingapatam	19	29·630		29·587	29·750	1st	29·429	21st	85·0	79·6	92·4		79·6		86·0		12·8	104·1	10th	76·4	13th
	Gopalpur	56	29·571	+·006	29·567	29·700	1st	29·385	21st	83·7	80·3	88·9	—0·7	80·1	—0·3	84·5	−0·5	8·8	93·1	2nd	74·7	14th
	Bay Stations.																					
1	P. V. Fraser	8	29·599		29·592	29·725	1st	29·467	20th & 21st.	85·5	81·7											
	Port Blair	58	29·740	—·023	29·728	29·781	27th	29·648	12th	80·2	77·2	85·7	—0·2	76·7	−1·1	81·2	—0·7	9·0	90·0	3rd & 8th	72·7	19th
	Table Island	90	29·678	—·022	29·701	29·748	15th	29·607	10th	82·0	79·7	85·5	—0·5	77·4	—0·4	81·5	—0·5	8·1	90·0	1st & 2nd	70·3	30th
	Kashmir.																					
12	Muzaffarabad		27·217			27·489	2nd	27·013	26th	78·2	64·1	97·2		69·5		83·2		27·7	104·8	19th	57·3	1st
	Srinagar	5,204	24·733	—·008	24·704	24·877	1st	24·555	26th	66·3	60·0	79·7	—2·7	55·6	−2·0	67·7	—2·3	24·1	88·6	30th	50·1	4th
	Gulmarg	*8,569*	21·799	0	21·768	21·875	1st & 8th	21·670	27th	58·3	51·3	64·4	—2·4	43·1	—0·4	52·7	—1·4	21·3	72·9	30th	36·9	3rd
	Dras	*10,935*	20·756	0	20·724	20·836	9th	20·636	27th	52·3	48·3	62·6	—11·3	41·6	+0·5	52·1	—5·4	21·0	74·7	27th	36·9	4th
	Leh	*11,503*	19·678	—·012	19·646	19·744	7th	19·563	27th	52·7	41·4	66·8	—5·2	42·4	—1·5	54·6	—3·3	24·4	74·1	21st	36·9	5th
	Skardu	*7,505*	22·744	—·023	22·714	22·828	9th	22·575	27th	64·7	51·6	78·1	—1·3	55·2	—0·1	66·8	—0·7	22·9	87·1	27th	45·0	5th
	Gilgit	4,890	24·999	+·042	24·972	25·150	1st	24·818	27th	75·2	62·4	89·3	—3·0	63·3	—3·8	76·4	—3·4	26·0	101·4	27th	57·0	16th

N 9.—Elevations in italics indicate barometrical determinations.

* Mean of 27 days.

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

B—*continued.*

at 213 stations in India, etc., in June, 1920—*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 1920.	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	1	1	10	3	3	1	7	2	S 53° E	S 83° W	5·5	2·4	+3·1	17	+6	86	0	·862	+·003	8·3	−0·3	25	+0·6	47·86	36·50	+11·36	48·31	42·27	+ 6·04	550	Mangalore.
16	2	0	5	4	1	0	0	2	S 86° E	N 22° E	3·4	7·1	−3·7	21	+10	95	+ 6	·864	+·003	9·2	+0·9	27	+3·1	52·18	34·05	+18·13	53·01	41·83	+11·18	6·10	Calicut.
10	1	4	6	3	1	2	2	1	E	N 9° W	3·3	4·5	−1·2	23	+ 1	87	0	·832	−·025	8·4	+0·6	27	+3·0	46·90	28·43	+19·47	50·06	40·01	+10·05	4·64	Cochin.
3	4	0	0	0	0	0	4	19	N 45° W	N 16° W	5·0	5·1	−0·1	76	+ 9	90	+ 3	·828	−·007	9·5	+1·3	24	+7·3	37·78	13·11	+24·67	39·45	21·65	+17·80	5·94	Trivandrum.
0	0	0	0	0	12	15	3	0	S 30° W	S 39° W	10·9	9·8	+1·1	86	+ 8	79	+ 1	·912	−·005	2·7	−0·5	1	+0·6	0·12	0·12	0	0·12	0·90	− 0·78	0·12	Pamban.
0	2	0	0	0	0	4	14	10	N 75° W	N 79° W	5·9	3·0	+2·9	82	+22	63	− 1	·737	−·023	7·2	+2·0	4	+1·7	1·47	1·43	+ 0·04	5·21	4·17	+ 1·04	0·52	Madura.
11	1	0	0	0	0	4	11	3	N 89° W		3·4			54		67	+ 3	·776	+·014	5·4	−1·5	6	+3·1	5·63	1·33	+ 4·30		3·61		1·78	Pudukkottai.
2	0	0	0	0	1	8	19	0	S 75° W	S 61° W	7·2	6·1	+1·1	86	+ 5	70	+ 6	·844	+·052	3·9	−0·7	2	−0·2	0·70	1·28	− 0·58	2·30	2·96	− 0·66	0·40	Negapatam.
0	0	0	0	0	2	14	11	3	S 67° W	S 80° W	6·1	6·7	−0·6	82	− 2	61	− 1	·731	−·006	5·2	−0·4	2	−0·1	0·83	1·26	− 0·63	3·61	4·67	− 1·06	0·35	Trichinopoly.
7	0	0	0	0	1	12	10	0	S 63° W	S 45° W	5·3	5·1	+0·2	66	−12	73	− 8	·702	−·069	3·9	−1·8	6	+1·3	1·53	1·72	− 0·19	3·05	4·06	− 1·01	0·55	Coimbatore.
1	0	0	0	0	4	24	1	0	S 41° W	S 32° W	5·4	3·7	+1·7	89	+20	70	− 5	·728	−·070	4·0	−2·0	3	−2·2	0·90	3·03	− 2·13	2·54	7·81	− 5·27	0·48	Salem.
4	0	0	0	1	1	23	1	0	S 43° W	S 62° W	6·5	2·1	+4·4	76	+ 6	61	− 7	·769	−·074	4·5	−0·2	2	−0·6	0·24	1·46	− 1·22	0·24	2·14	− 1·90	0·13	Cuddalore.
5	0	0	0	0	0	0	16	9	N 74° W		4·8			95		64	+ 1	·761	+·033	3·3	−1·6	3	−1·7	2·07	2·46	− 0·39	2·99	4·77	− 1·78	1·60	Vellore.
0	0	0	0	0	2	23	5	0	S 49° W	S 66° W	4·4	6·4	−2·0	89	+15	58	− 4	·748	−·049	4·1	−1·9	2	−1·6	0·44	1·77	− 1·33	1·69	2·78	− 1·09	0·15	Madras.
0	1	0	0	2	1	6	13	7	S 88° W	N 87° W				69	− 9	58	− 2	·749	−·010	5·7	−0·7	4	−0·5	3·46	3·00	+ 0·46	4·27	4·61	− 0·34	1·50	Cuddapah.
3	0	0	0	0	0	6	14	7	N 86° W	S 84° W	7·5	7·7	−0·2	76	+ 2	63	+ 1	·693	+·051	5·3	−1·9	2	−1·7	0·39	1·97	− 1·58	2·07	3·92	− 1·85	0·21	Bellary.
2	0	0	0	0	0	11	14	3	S 76° W	S 89° W	9·2			82	+19	69	+ 1	·767	+·028	2·5	−3·9	2	−3·7	1·38	2·94	− 1·56	1·83	3·90	− 2·07	0·99	Kurnool.
1	0	0	0	1	2	5	15	6	S 85° W	N 73° W	3·6	7·0	−3·4	72	+ 9	59	− 1	·778	−·018	6·2	−1·0	1	−1·7	0·86	1·21	− 0·35	3·54	1·79	+ 1·75	0·78	Nellore.
1	0	0	0	0	3	4	13	9	N 89° W	N 80° W	8·3	6·9	+1·4	72	+ 9	72	− 5	·924	−·041	4·7	−2·5	6	0	2·89	4·44	− 1·55	4·32	5·62	− 1·40	1·05	Masulipatam.
3	0	0	0	0	0	7	20	0	S 78° W	S 69° W	6·5	6·4	+0·1	82	+ 7	78	+ 4	·948	+·052	6·4	−0·1	4	−2·3	2·07	4·65	− 2·58	6·71	5·88	+ 0·83	1·18	Cocanada.
3	0	0	0	0	1	5	17	4	S 86° W	S 73° W	10·9			76	+ 2	74	+ 1	·923	+·060	7·9	+0·1	5	−1·5	3·45	4·91	− 1·46	4·75	7·01	− 2·26	1·29	Vizagapatam.
4	0	0	1	0	2	13	10	0	S 59° W		7·8			67		79		·941		4·8		5	−0·9	2·67	4·37	− 1·70	6·50	7·57	− 1·07	1·13	Calingapatam.
2	3	0	0	0	12	11	0	2	S 31° W	S 39° W	9·8	11·0	−1·2	59	−15	86	+ 3	·986	+·025	5·9	+1·4	9	+1·2	3·85	5·94	− 2·09	4·79	7·84	− 3·05	0·88	Gopalpur.
																															Bay Stations.
0	0	0	0	1	5	23	1	0	S 38° W					90		84		1·029		5·6		6	−3·9	3·49	6·94	− 3·45	6·09	9·27	− 3·18	1·16	P. V. Fraser.
0	0	0	0	0	4	14	5	7	S 66° W	S 57 W	8·1	7·6	+0·5	72	− 2	87	− 1	·896	−·014	8·3	+0·1	22	+1·0	21·52	19·24	+ 2·28	30·36	35·08	− 4·22	3·18	Port Blair.
0	0	1	0	0	4	17	8	0	S 52° W		16·4			79		90	+ 2	·985	+·022	8·4	−0·1	22	+5·3	19·26	15·53	+ 3·73	24·47	24·27	+ 0·20	2·77	Table Island.
																															Kashmir.
22	0	1	0	0	1	4	1	0	S 45° W		1·3			13		45		·423		2·2		3	−2·6	0·91	3·65	− 2·74	2·41	6·22	− 3·81	0·41	Muzaffarabad.
13	0	1	1	5	6	1	2	1	S 12° E	S 45° E	2·3	2·8	−0·5	30	+22	69	−13	·418	−·100	2·6	−0·3	3	−0·7	0·94	1·52	− 0·58	3·69	3·96	− 0·27	0·42	Srinagar.
8	6	4	2	3	0	1	0	6	N 11° E		3·3*			23		65	−12	·312	−·080	3·8	+1·1	10	+1·0	2·66	3·47	−0·81	2·66	2·47	−0·81	0·53	Gulmarg.
13	0	4	0	0	2	1	7	3	N 73° W		5·6			23		79	+19	·396	+·028	3·2	+0·	2	−0·3	0·66	0·64	+ 0·02	3·51	3·37	+ 0·14	0·43	Dras.
26	0	0	0	0	3	0	1	0	S 18° W	S 72° W	2·1	1·9	+0·2	10	−37	41	0	·163	−·008	5·1	+1·2	0	−0·7	0·10	0·19	− 0·09	0·28	0·29	− 0·11	0·06	Leh.
4	0	4	8	1	2	7	3	1	S 36° E		7·0			17		41	− 8	·245	−·047	3·7	+0·4	0	−0·8	0·05	0·28	− 0·23	0·22	1·48	− 1·26	0·08	Skardu.
27	0	0	0	0	0	2	1	0	S 58° W		0·2			7		50	+10	·427	+·077	2·6	−0·2	0	−1·3	0·22	0·37	− 0·15	0·84	1·17	− 0·33	0·09	Gilgit.

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

* Mean of 20 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
	Baluchistan.																					
15	Fort Sandeman	4,614	25·198		25·167	25·349	1st	25·071	27th	78·0	61·4	97·0		70·8		83·9		26·2	104·1	30th	62·6	1st
	Quetta	5,502	24·482	−·008	24·442	24·611	1st	24·395	27th & 28th	67·4	57·0	89·8	−1·5	55·8	−2·7	72·8	−2·1	34·0	95·9	29th	51·5	5th
	Chaman	4,311	25·467	−·039	25·429	25·598	1st	25·362	27th	81·0	60·7	96·3	−3·4	67·9	−4·2	82·1	−3·8	28·4	102·6	29th	61·8	1st
	Kalat	6,680	23·607		23·569	23·716	1st	23·525	12th	65·5	52·6	86·6	−4·6	57·0		71·8		29·6	93·8	29th	52·4	5th
	Dalbandin	2,772	26·881		26·844	27·015	3rd	26·766	27th	83·1	58·2	105·5		71·7		88·6		33·8	112·5	28th	67·3	1st
	Pasni		29·556		29·516	29·772	1st	29·396	23rd	85·9	81·0	99·3		72·4		85·8		26·9	114·8	23rd	65·6	11th
	Panjgur	3,177	26·508		26·466	26·637	1st	26·408	28th	81·4	65·6	101·9		74·9		88·3		27·0	108·6	29th	68·2	1st
	Seistan (c)		27·890			28·050	2nd	27·790	10 days.	79·7	65·3	98·8		67·2		83·0		31·6	107·6	29th	38·7	3rd
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·305	+·007	24·291	24·422	2nd	24·197	26th	73·9	58·3	84·6	−2·0	59·6	−3·9	72·1	−3·5	25·0	93·2	27th & 29th	55·1	2nd & 13th
	Cherat	*4,256*	25·509	0	25·477	25·669	2nd	25·372	26th	78·8	60·7	91·6	−2·2	72·1	−1·1	81·9	−1·7	19·5	100·7	30th	57·8	12th
	Drosh (c)	4,500	24·874			25·025	1st & 2nd	24·725	26th & 27th	69·7	57·4	86·7	−4·1	64·4	−3·0	75·6	−3·5	22·3	96·1	30th	45·0	11th
	Murree	6,181	23·849	−·013	23·817	23·987	1st	23·726	26th	69·8	58·0	79·7	−2·0	63·7	−0·4	71·7	−1·2	16·0	86·3	22nd	47·3	12th
	Simla	7,232	22·999	−·004	22·961	23·115	1st	22·887	28th	64·2	55·9	70·6	−3·6	59·5	−1·3	65·1	−2·5	11·1	77·3	11th	51·8	12th
	Chakrata	6,922	23·232		23·192	23·340	1st	23·120	24th & 26th	66·8	57·9	78·2	+2·9	60·1	−0·1	69·1	+1·9	18·1	86·7	9th	51·7	3rd & 4th
	Mukteswar	7,592	22·746	−·007	22·705	22·886	1st	22·612	24th	62·1	55·6	71·8	−3·3	51·8	−3·2	63·3	−3·3	17·0	81·7	9th	48·2	12th
	Darjiling	7,432	22·841	−·028	22·796	22·941	1st	22·721	28th	60·6	59·4	68·6	+3·1	57·8	+1·6	63·2	+2·3	10·8	75·7	3rd	54·1	5th & 6th
	Kalimpong		25·806		25·760	25·911	1st	25·659	28th	69·0	67·4	76·4		66·3		71·4		10·1	83·6	2nd	60·8	6th
	Shillong	4,920	24·980	−·015	24·932	25·084	1st	24·868	26th & 27th	67·8	63·9	75·5	+1·1	63·1	−0·1	69·3	+0·5	12·4	80·9	2nd	57·7	8th
	Cherrapunji	4,309	25·544	−·001	25·495	25·653	1st	25·425	27th	67·1	65·3	72·1	−0·1	63·9	−0·1	68·0	−0·1	8·2	77·6	2nd	61·0	8th
	Netarhat *									78·4	68·4	89·4		69·6		79·5		19·8	98·8	11th	64·3	4th, 5th 6th
	Maymyo	3,546	26·269	−·041	26·214	26·343	1st	26·189	28th	71·3	68·3	79·8	+1·4	67·2	+1·3	73·5	+1·3	12·6	84·0	5th	63·6	6th
	Pachmarhi	3,528	26·256	−·012	26·203	26·400	1st	26·104	22nd	76·1	67·7	89·6	+2·2	72·6	+0·3	81·1	+1·3	17·0	101·0	8th	67·1	23rd 24th
	Mount Abu	3,945	25·846	−·017	25·796	26·009	1st	25·730	12th	72·5	63·0	78·9	−4·7	68·6	+0·1	73·7	−2·3	10·3	94·6	9th	64·9	14th
	Mercara	3,781	26·145	−·018	26·081	26·199	29th	26·062	7th	65·8	65·0	71·3	−1·5	61·9	−1·5	66·6	−1·5	9·4	81·6	3rd	60·3	30th
	Ootacamund	*7,327*	23·008	+·001	22·942	23·052	29th	22·954	20th	58·4	55·5	65·2	+1·0	52·4	+0·2	55·8	+0·6	12·8	70·5	1st	49·2	2nd
	Kodaikanal	7,698	22·782	−·002	22·716	22·828	27th	22·726	20th	58·8	51·7	66·2	+1·1	53·5	−0·2	59·8	+0·5	12·7	72·4	8th & 11th	50·6	30th
	Extra India.																					
	Singapore (a)	10	29·814	−·101	29·745	29·870	16th 18th & 26th	29·740	7th	84·9		90·0	+1·8	76·1	+1·3	83·1	+1·5	13·9	94·5	23rd	72·0	16th
	Penang (a)	17	29·802	−·098	29·744	29·879	15th & 16th	29·740	13th	82·9		90·0	0	72·0	−2·1	81·0	−1·1	18·0	91·5	28th	70·5	23rd 27 & 29
	Trincomalee	99	29·727	+·007	29·754	29·830	29th	29·678	7th	79·4	74·7	94·2	+2·6	77·8	−0·7	86·0	+0·9	16·4	98·5	24th	75·1	3rd
	Colombo	24	29·885	−·008	29·815	29·976	30th	29·785	2nd	78·8	76·1	85·4	−0·7	76·4	−1·1	80·9	−0·9	9·0	88·1	2nd	72·6	23rd
	Hambantota	64	29·799		29·789	29·919	30th	29·712	2nd	78·0	75·1	88·2		76·6		82·4		11·6	95·5	9th	73·0	24th
	Minicoy	7	29·888			29·965	29th & 30th	29·822	7th													
	Amini Divi	*13*	29·825	−·018	29·766	29·927	29th	29·715	6th	83·0	78·5	87·8	+0·8	78·1	0	83·0	+0·4	9·7	93·6	2nd	73·7	9th
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,760	24·130	−·217	24·085	24·241	1st	24·002	28th	65·1	63·5	74·1	+0·2	62·3	+7·4	68·2	+3·8	11·8	79·3	13th	57·0	6th

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 which exceed 3,200 feet.

(a) 9 hrs. observations.

(c) Aneroid.

* Mean of 29 days.

B—*continued.*

at 213 stations in India, etc., in June, 1920—*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 30th June 1920.	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	1	0	0	1	1	3	0	N 72° W		4·1			10		40		·356		0·4		3	+1·2	0·83	0·76	+0·07	1·31	1·16	+0·15	0·38	Fort Sandeman.
2	1	1	5	2	0	0	0	S 62° E	S 8° W	2·1	2·2	−0·1	20	+14	53	+ 7	·354	−·061	0·7	+0·1	0	−0·4	0	0·17	−0·17	0·44	0·52	−0·08	0	Quetta.
0	0	2	0	11	6	0	1	S 12° W	S 53° W	4·0	6·6	−2·6	49	+ 1	29	− 5	·297	−·104	0·7	+0·3	0	0	0	0·03	−0·03	0·08	0·12	−0·04	0	Chaman.
0	0	0	0	0	0	0	0	Calm	S 32° W	5·4					42	+ 8	·266	−·048	0·4		0	−0·6	0	0·27	−0·27	0·21	0·49	−0·28	0	Kalat.
0	3	2	3	1	9	4	0	S 30° W		6·0			30		16		·185		1·0		0	−0·2	0	0·04	−0·04	0·24	0·06	+0·18	0	Dalbandin.
0	3	3	2	1	11	7		N 80° W		5·4			38		80		·993		4·4		0	−0·8	0	1·46	−1·46	0·10	1·96	−1·36	0	Pasni.
2	1	2	0	3	2	0	3	N 28° E		4·9			10		37		·384		0·8		0		0			0·12			0	Panjgur.
1	0	0	0	0	1	0	28	N 46° W		12·5			92		44		·444		0·5		0		0			0			0	Seistan.
																														Hill stations, excluding Kashmir and Baluchistan.
0	0	0	0	0	0	0	0	Calm		0·6					40	+ 1	·321	−·026	1·4	−1·9	3	−1·8	2·02	2·20	−0·18	3·96	4·65	−0·69	0·79	Parachinar.
8	0	0	6	0	0	0	0	N	S 79° E	1·7	7·2	−5·5	27	+22	33	− 9	·322	−·091	0·3	−1·8	2	0	1·54	1·23	+0·31	2·49	2·81	−0·32	1·28	Cherat.
0	1	2	0	0	0	0	0	N 75° E		3·2			10		47	− 3	·334	−·091	1·9	+0·4	2	+0·2	1·62	0·62	+1·00	2·13	2·72	−0·59	1·25	Drosh.
3	0	2	2	1	1	0	1	N 73° E	S 63° E	2·4	5·3	−2·9	7	− 4	50	+ 1	·361	−·004	2·3	−0·5	2	−3·7	1·01	3·68	−2·67	3·57	6·55	−2·98	0·81	Murree.
															61	0	·362	−·016	5·8	+1·7	11	+1·5	4·51	6·72	−2·21	10·47	9·42	+1·05	0·96	Simla.
2	6	5	3	2	1	2	1	N 75° E	S 8° W	7·6	5·4	+2·2	27	+18	62	− 5	·390	−·027	5·2	+1·3	8	−2·6	2·47	7·95	−5·48	3·83	10·47	−6·64	1·06	Chakrata.
5	0	2	5	0	0	1	17	0	N 86° W	7·4			37		69	0	·375	−·027	5·7	+1·1	9	−1·1	14·34	6·25	+8·09	18·65	8·41	+10·24	4·31	Mukteswar.
1	0	1	0	2	1	0	4	1	S 68° W	S 76° E	2·1	3·7	−1·6	10	− 5	94	0	·497	+·002	9·5	+0·9	25	+4·6	22·14	24·00	−1·86	32·98	32·90	+0·08	3·75	Darjiling.
															93		·655		8·5		?		?						?	Kalimpong.
0	0	0	0	2	6	0	0	S 34° W		2·6			23		81	− 2	·552	−·020	7·9	−0·1	20	+0·9	12·95	17·00	−4·05	19·90	28·12	−8·22	2·65	Shillong.
0	0	0	0	4	7	4	0	S 45° W		3·2			43		91	− 3	·604	−·018	9·6	+0·8	23	−1·1	72·04	94·23	−22·19	107·60	137·72	−30·12	9·98	Cherrapunji.
1	2	1	0	1	6	12	6	N 87° W		7·7*			62		62		·582		2·8		11		2·92						0·52	Netarhat.
0	0	0	0	2	16	2	0	S 45° W		1·7			59		86	0	·653	−·012	7·9	+0·8	5	−8·7	3·63	9·46	−5·83	12·36	19·62	−7·26	1·68	Maymyo.
0	0	0	0	2	9	15	4	S 77° W	S 81° W	6·0	6·7	−0·7	79	+12	67	− 2	·582	−·031	5·1	−0·6	8	−2·6	5·77	9·28	−3·51	5·92	9·80	−3·88	3·16	Pachmarhi.
3	3	1	4	0	15	3	1	S 38° W	S 59° W	7·0	8·3	−1·3	46	−21	76	+ 4	·586	+·018	6·2	+0·9	9	+2·6	10·65	5·28	+5·37	17·46	5·96	+11·50	3·20	Mount Abu.
0	0	1	1	4	7	10	6	S 73° W	N 88° W	4·5	5·7	−1·2	56	−18	95	+ 1	·603	−·003	8·6	−0·2	27	+3·7	36·52	25·87	+10·65	40·94	31·45	+9·49	4·16	Mercara.
0	1	0	0	3	4	12	9	N 86° W		5·2			66		85	+ 7	·412	+·035	8·0	+0·5	15	+1·2	5·76	7·07	−1·31	10·42	14·03	−3·61	0·62	Ootacamund.
1	1	1	1	1	1	19	5	N 82° W		9·3			69		78	+ 3	·386	+·019	6·7	+0·3	01	−0·1	2·70	4·03	−1·32	6·38	10·03	−3·65	0·80	Kodaikanal.
																														Extra India.
1	0	2	8	2	6	0	4	S 4° E					27						6·1	+0·7	4	−5·3	2·24	7·15	−4·91	5·98	13·29	−7·31	0·79	Singapore.
0	16	0	9	2	0	0	3	N 72° E					53						5·4	+4·2	6	−3·5	8·15	7·50	+0·65	19·45	17·04	+2·41	1·88	Penang.
0	0	0	0	0	22	8	0	S 57° W	S 47° W	10·3	13·2	−1·9	92	− 2	80	0	·784	−·097	8·0	+4·8?	0	−1·9	0·14	1·36	−1·22	2·98	3·69	−0·71	0·07	Trincomalee.
0	1	0	1	1	14	5	2	S 57° W	S 62° W	4·2	7·7	−3·5	56	−30	87	+ 3	·858	−·042	8·7	+1·4	21	+7·7	17·34	7·92	+9·42	26·08	18·84	+7·24	4·57	Colombo.
0	0	0	0	0	5	22	1	S 84° W		10·0			86		87		·828		6·8		8		2·30	2·38	−0·08	5·38	5·59	−0·21	0·77	Hambantota.
0	0	0	0	0	14	15	1	S 71° W	S 81° W	7·1	11·8	−4·7	90	+ 2					6·8	−0·1	24	+6·9	20·87	11·06	+9·81	28·87	16·84	+12·03	2·80	Minicoy.
1	0	0	0	0	10	14	4	S 83° W		13·8			80		81	− 2	·913	−·019	8·2	+0·3	15	−1·2	12·76	13·97	−1·21	12·97	16·93	−3·96	2·17	Amini Divi.
																								0·99			1·44			Gyantse.
																								4·29			6·34			Pharijong.
0	2	1	0	0	1	0	0	N 71° E		0·5			6		92	+ 2	·573	+·069	8·2	+2·1	25	+2·6	31·35	20·65	+10·70	47·64	39·76	+8·38	4·78	Gangtok.

* Mean of 28 days.
† „ „ 12 „

Tabl

(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. 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.*																					
	Gartok (c)	15,100																				
	Kashgar (c)	4,255	25·341	−·129		25·530	17th	25·225	28th	71·8	62·9	87·7	−1·1	62·4	−1·4	75·1	−1·3	25·3	94·8	2nd	51·9	13th
	Kabul (c)																					
	Meshed	3,104								71·4	61·7	87·9	+0·4	59·0	−2·2	73·5	−0·9	28·9	96·4	25th	53·0	2nd
	Jask	13	29·541	−·027	29·507	29·736	1st	29·392	12th	88·6	80·4	99·6	+3·7	81·2	−2·1	90·4	+0·8	18·4	113·5	24th	76·0	1st
	Muscat	20	29·566	+·005	29·534	29·764	1st	29·451	24th	95·7	81·4	102·7	+6·8	91·0	+3·1	96·9	+4·9	11·7	112·2	28th	84·0	7th
	Bushire	14	29·581	+·002	29·557	29·774	1st	29·447	28th	86·9	78·7	92·9	+1·1	82·4	+1·8	87·6	+1·5	10·5	100·1	11th	74·5	18th
	Ispahan (c)	*5,817*	24·201	−·089		24·310	21st & 22nd.	24·090	12th	71·0	59·5	90·8	−3·0	63·1	+0·9	76·9	−1·1	27·7	100·4	28th	55·2	1st
	Tehran (c)	*4,002*	25·628	−·112		25·750	21st	25·500	27th	76·6	61·1	90·8	−3·5	66·7	+0·4	78·8	−1·5	24·1	101·6	25th	56·0	7th
	Baghdad	125	29·533	−·037	29·631	29·774	4th	29·380	30th	83·8	63·1	105·1	+0·6	78·1	+2·0	91·6	+1·3	27·0	115·8	23rd	67·8	6th
	Aden	94	29·658	−·004	29·683	29·873	3rd	29·555	28th	87·1	80·4	94·5	−0·3	84·5	+0·5	89·5	+0·1	10·0	97·7	25th	79·7	1st
	Zanzibar	72	30·075	+·004	30·074	30·168	30th	29·993	7th	75·5	71·9	80·9	−0·8	79·0	−0·1	77·5	−0·5	6·9	83·4	2nd	71·8	27th

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.

B—*concluded.*

at 213 stations in India, etc., in June, 1920—*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 June 1920.	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.*
																									0·10						Gartok.
20	5	0	0	0	0	1	0	4	N 23° W	N 28° W	3·0	3·5	−0·5	27	+10	63	+21	·482	+·121	3·4	+1·1	2	+1·2	0·90	0·28	+0·62	2·78	0·98	+1·80	0·59	Kashgar.
										N 23° E															0·21			0·99			Kabul.
30	0	0	0	0	0	0	0	0	Calm		1·1					57	+ 8	·432	−·021	2·0	+0·9	4	+3·3	1·48	0·31	+1·17	4·33	1·59	+2·74	0·68	Meshed.
2	6	1	8	1	0	1	4	7	N 1° W	S 42° E	7·8	9·6	−1·8	34	+14	76	− 1	·921	−·043	1·6	+0·6	0	−0·1	0	0·07	−0·07	0	0·07	−0·07	0	Jask.
10	0	0	0	6	0	0	1	13	N 51° W	N 27° E	2·1	3·4	−1·3	23	+ 4	55	− 9	·885	−·045	2·2	+0·4	0	−0·2	0	0·14	−0·14	0	0·14	−0·14	0	Muscat.
8	2	1	2	1	0	0	2	14	N 36° W	N 37° W	8·2	7·8	+0·4	49	− 7	68	+ 2	·875	+·053	0·4	+0·3	0	0	0	0	0	0	0·02	−0·02	0	Bushire.
17	0	0	0	0	0	1	2	0	S 77° W	N 50° W	1·2	2·8	−1·6	10	−34	52	0	·397	−·081	0	−0·2	0	−0·1	0	0·03	−0·03	0·01	0·26	−0·25	0	Ispahan.
22	0	2	0	1	2	3	0	0	S	S 7° W	3·6	2·2	+1·4	20	+ 3	40	− 2	·363	−·040	1·9	+1·1	0	−0·2	0·06	0·09	−0·03	0·74	0·57	+0·17	0·02	Tehran.
4	5	0	1	0	0	1	12	7	N 61° W	N 9° W	6·5	3·6	+2·9	62	− 6	27	−11	·303	−·169	0·4	+0·1	0	0	0	0	0	0·09	0·21	−0·12	0	Baghdad.
11	1	9	2	2	9	2	0	3	N 43° E	S 34° E	4·8	6·8	−2·0	30	+ 4	74	+ 3	·953	+·004	5·3	+2·1	0	−0·1	0	0·06	−0·06	0	0·18	−0·18	0	Aden.
0	0	0	0	1	14	15	0	0	S 22° W	S 13° W	6·0	6·4	−0·4	90	+ 3	86	+ 2	·732	−·012	5·9	+0·6	3	−0·2	0·77	1·78	−1·01	15·86	12·75	+3·11	0·30	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in June, 1920.

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	79·1	76·6	89·9	+0·6	65·7	−5·6	77·8	−2·5	24·2	96·9	2nd	55·3	4th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	80·2	77·1	98·2	+8·8	65·1	−9·6	81·7	−0·4	33·1	99·4	11th	62·6	1st, 3rd & 4th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	76·2	73·1	91·4	+2·2	67·0	−7·1	79·2	−2·5	24·4	109·6	11th	60·7	9th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·4	75·7	88·2	−1·3	74·4	+0·5	81·3	−0·4	13·8	95·8	3rd	68·7	6th	...	...		...	...	...	...	...	...	...	...
	Dikom	78·7	76·3	87·9	−1·1	75·1	+0·1	81·5	−0·5	12·8	96·8	2nd	69·8	4th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	79·7	77·8	89·5	+1·6	72·5	...	81·0	...	17·0	96·1	1st	68·2	1st	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·5	77·3	89·9	+0·4	76·2	+1·3	83·1	+0·9	13·7	96·6	2nd	71·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	79·6	76·7	89·1	−0·6	74·4	−1·2	81·7	−0·9	14·7	95·9	1st	69·7	6th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	82·3	76·9	92·5	...	67·9	...	80·2	...	24·6	101·9	2nd	63·0	11th	...	...	...	...	...	...	...	...	...	...	...
	Messa	83·7	78·5	91·3	−0·8	74·7	+0·4	82·0	−0·2	16·6	98·5	2nd	69·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	75·8	75·0	88·2	+0·8	71·1	−2·6	79·7	−0·9	17·1	94·7	2nd	66·3	6th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	85·7	76·1	93·6	+4·6	73·5	−2·4	83·5	+1·1	20·1	98·4	5th	70·4	26th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	85·9	81·2	92·6	+2·7	77·5	+0·9	85·1	+1·8	15·1	102·3	1st	70·6	6th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	83·5	80·3	93·6	+0·3	75·9	+3·0	84·7	+1·7	17·7	105·6	2nd	71·6	27th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	76·5	75·8	87·1	−3·6	73·8	+0·3	80·5	−1·7	13·3	98·9	1st	69·8	4th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·0	76·9	88·0	−0·4	71·8	−2·0	79·9	−1·2	16·2	95·6	2nd	61·0	7th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·0	76·4	87·5	−0·3	73·3	−0·8	80·4	−0·5	14·2	95·3	1st	68·0	5th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	85·6	77·4	100·2	...	78·6	...	89·4	...	21·6	110·5	3rd	74·1	12th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Debri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.

and fifth class stations in India, etc., in June, 1920.

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 1920.	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.
...	...	...	...	...	89	− 4	·883	− ·035	...	...	22	+ 5·8	20·19	14·39	+ 5·80	31·70	24·22	+ 7·48	2·30	Bishnath.
...	...	...	...	...	86	− 6	·890	− ·043	...	...	21	+ 4·5	18·17	14·10	+ 4·07	24·63	23·82	+ 0·81	2·56	Borjuli.
...	...	...	...	...	87	− 2	·782	− ·116	...	...	25	+ 2·8	21·17	25·25	− 4·08	38·00	42·10	− 4·10	2·76	Chandkhira.
...	...	...	...	...	89	− 5	·854	− ·056	...	...	18	+ 0·7	21·53	16·68	+ 4·85	34·14	25·46	+ 8·68	2·75	Doom Dooma.
...	...	...	...	...	90	0	·879	0	...	...	19	+ 0·7	17·32	16·18	+ 1·14	28·54	27·04	+ 1·50	3·30	Dikom.
...	...	...	...	...	92	+ 3	·926	+ ·009	...	...	15	− 0·1	9·15	9·65	− 0·50	15·71	18·65	− 2·94	2·15	Golaghat.
...	...	...	...	...	85	− 5	·889	+ ·011	...	...	24	+ 3·1	15·23	23·59	− 8·36	35·97	40·28	− 4·31	2·50	Hailakandi.
...	...	...	...	...	87	+ 1	·879	− ·021	...	...	18	+ 1·5	8·62	10·43	− 1·81	17·50	21·37	− 3·87	1·58	Jorehat.
...	...	...	...	...	79	...	·842	...	...	...	13	+ 1·0	7·24	9·53	− 2·29	8·64	15·08	− 6·44	1·69	Lumding.
...	...	...	...	...	79	− 3	·904	+ ·006	...	...	21	+ 4·5	13·05	12·42	+ 0·63	20·45	20·91	− 0·46	1·91	Messa.
...	...	...	...	...	96	+ 3	·877	+ ·039	...	...	20	+ 5·5	19·56	13·50	+ 6·06	28·91	24·59	+ 4·32	2·36	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	14	− 3·6	27·53	17·81	+ 9·72	35·22	30·37	+ 4·85	7·20	Comilla.
...	...	...	...	...	63	− 24	·771	− ·170		...	16	− 0·3	17·33	17·18	+ 0·15	25·72	31·90	− 6·18	3·64	Brahmanbaria.
...	...	...	...	...	...	...	...	..	...	...	12	− 3·1	12·63	13·43	− 0·80	24·13	22·56	+ 1·57	3·18	Faridpur.
...	...	...	...	...	78	− 7	1·005	+ ·026	...	...	15	− 0·5	10·14	13·52	− 3·38	19·89	22·02	− 2·13	2·17	Goalundo.
...	...	...	...	...	86	+ 1	·993	+ ·025	...	...	12	− 2·8	11·98	11·81	+ 0·17	19·70	19·46	+ 0·24	2·95	Pabna.
...	...	...	...	...	...	...	...	...	...	...	9	− 5·6	6·11	12·56	− 6·45	12·01	20·97	− 8·96	2·40	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	11	− 1·8	7·08	10·78	− 3·70	9·50	16·51	− 7·01	3·78	Rampur Boalia.
...	...	...	...	..	...	...	...	...	...	...	8	− 3·3	3·54	9·83	− 6·29	5·67	14·36	− 8·69	1·05	Malda.
...	...	...	...	...	...	...	...	...	...	...	18	+ 2·5	14·54	17·07	− 2·53	19·83	28·54	− 8·71	5·30	Rangpur.
...	...	...	...	...	96	+ 2	·882	− ·029	...	...	25	+ 4·5	31·14	27·72	+ 3·42	35·23	43·23	− 8·00	3·62	Dam Dim.
...	...	...	...	...	86	− 1	·886	− ·011	...	...	25	+ 6·1	47·53	25·27	+22·26	55·11	40·19	+ 14·92	8·85	Kalchini.
...	...	...	...	...	85	− 4	·860	− ·013	...	...	21	− 0·5	39·21	27·93	+11·23	44·99	42·58	+ 2·41	7·82	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	23	+ 5·1	52·90	31·15	+21·75	68·36	47·37	+20·99	6·15	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	9	− 3·8	6·78	10·59	− 3·81	11·46	17·73	− 6·27	1·50	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	10	− 1·6	3·39	10·67	− 7·28	4·62	15·13	−10·51	0·95	Bankura.
...	...	...	...	...	69	...	·828	...	6·5	...	12	+ 0·1	6·85	9·65	− 2·80	7·95	13·72	− 5·77	1·84	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	6	− 4·8	3·17	8·89	− 5·72	5·41	11·10	− 5·69	1·45	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	9	− 1·1	4·59	8·36	− 3·77	6·77	11·60	− 4·83	1·51	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	4	− 4·1	5·71	8·24	− 2·53	5·89	10·74	− 4·85	2·54	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	9	− 0·6	6·28	9·09	− 2·83	8·07	11·96	− 3·89	2·97	Motihari.
...	...	...	...	...	...	...	...	...	...	...	5	− 2·3	3·34	6·28	− 2·94	3·42	7·81	− 4·39	2·21	Chapra.
...	...	...	...	...	...	...	...	...	...	...	6	− 1·5	7·33	6·50	+ 0·83	7·47	7·98	− 0·51	5·04	Arrah.
...	...	...	...	...	...	...	...	...	...	...	6	− 1·2	4·98	6·01	− 1·05	5·82	6·78	− 1·46	2·46	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
22	Chhindwara	82·5	71·4	95·9	...	77·0	...	86·4	...	18·9	104·7	8th	71·1	23rd	10	1	0	0	0	2	6	7	4	S 82° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	82·7	76·0	98·4	...	77·3	...	87·9	...	21·1	103·2	2nd	71·6	30th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	86·9	77·0	101·3	...	81·0	...	91·1	...	20·3	108·3	8th & 11th	72·2	20th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	76·4	70·3	87·2	...	72·0	...	79·6	...	15·2	96·0	8th & 9th	67·3	19th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	90·2	70·8	101·7	...	80·9	...	91·3	...	20·8	107·7	10th	69·6	12th	4	10	4	6	2	1	1	0	2	N 36° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	61·3	46·7	73·1	...	41·8	...	60·0	...	36·3	85·1	29th	36·5	9th	4	0	0	0	2	0	12	0	12	S 86° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	76·0	73·8	87·4	+0·3	70·3	−3·0	78·9	−1·3	17·1	97·1	2nd	64·9	7th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	67·1*	62·7*	72·4	−1·0	62·8	−1·2	67·6	−1·1	9·6	80·6	2nd	58·9	7th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	72·8	−2·0	51·9	−1·8	62·3	−1·9	20·9	82·6	23rd	44·0	1st & 4th	15	4	1	0	1	2	5	0	2	S 88° W	...
	Kalfang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	92·0	−4·3	52·9	−4·8	72·4	−4·5	39·1	97·6	30th	47·1	4th & 11th	...	...	...	...	...	...	...	...	...	...	...

*Mean of 14 days.

—*continued.*

nd fifth class stations in India, etc., in June, 1920—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									Station.
Mean velocity 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 1920.	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	4·27	3·13	+1·14	5·50	3·72	+1·78	2·61	Meerut.
...	...	...	...	...	...	...	...	...	...	...	5	−4·4	3·64	8·64	−5·00	5·50	10·06	−4·56	1·38	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	0·75	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	8	+3·8	5·52	3·02	+2·50	9·73	3·75	+5·98	1·45	Udaipur.
																				XII.—Central Provinces.
1·8	...	...	47	...	59	...	·633	...	4·0	...	4	−5·6	2·89	6·22	−3·33	4·17	6·68	−2·51	1·27	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	3	−5·1	3·82	6·05	−2·23	3·82	6·55	−2·73	2·77	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	3	+1·6	0·55	0·62	−0·07	1·34	2·04	−0·70	0·18	Tinnevelly.
...	...	...	...	...	73	...	·812	...	6·4	...	2	−2·0	0·54	1·73	−1·19	3·04	3·95	−0·91	0·28	Anantapur.
...	...	...	...	...	63	...	·793	...	0·4	...	7	−0·5	4·15	4·65	−0·50	9·28	6·14	+3·14	1·48	Guntur.
...	...	...	...	...	74	...	·670	...	...	...	7	...	5·74	...	...	6·22	...	...	1·53	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	15	0	8·98	12·96	−3·98	14·12	26·04	−11·92	1·45	Car Nicobar.
																				Kashmir.
...	...	...	47	...	37	...	·846	...	2·0	...	2	−2·5	0·47	2·94	−2·47	2·78	3·49	−0·71	0·25	Jammu.
...	...	...	...	...	...	...	...	...	...	...	8	0	2·07	2·76	−0·69	9·31	7·82	+1·49	0·46	Sonamarg.
...	...	...	53	...	31	...	·166	...	3·4	...	1	0	0·10	0·15	−0·05	0·81	1·24	−0·43	0·10	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	−0·7	0·31	1·03	−0·72	1·51	1·22	+0·29	0·31	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	90	+5	·802	−·035	...	...	22	+1·5	21·98	25·82	−3·90	28·53	37·25	−8·72	2·85	Panighatta.
...	...	...	...	...	82*	...	·519*	...	...	...	21	−0·9	22·26	31·73	−9·47	25·44	43·26	−17·82	2·11	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	26	+0·3	22·95	25·34	−2·39	37·85	44·32	−6·47	2·80	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	22	+1·2	9·94	9·03	+0·91	17·65	14·87	+2·78	1·93	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	29·02	...	...	48·11	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	10	...	7·09	...	...	10·85	...	...	1·60	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	9	−2·2	6·02	9·38	−3·36	7·52	11·69	−4·17	1·60	Mussoorie.
...	...	...	10	...	...	...	...	...	5·1	+1·3	3	+2·4	0·97	0·23	+0·74	4·26	1·14	+3·12	0·41	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	−0·6	0·49	1·08	−0·59	3·42	3·51	−0·09	0·18	Kailang.
...	...	...	...	...	...	...	...	...	0·3	...	0	−0·1	0	0·04	−0·04	0·01	0·20	−0·19	0	Pichin.

* Mean of 14 days.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

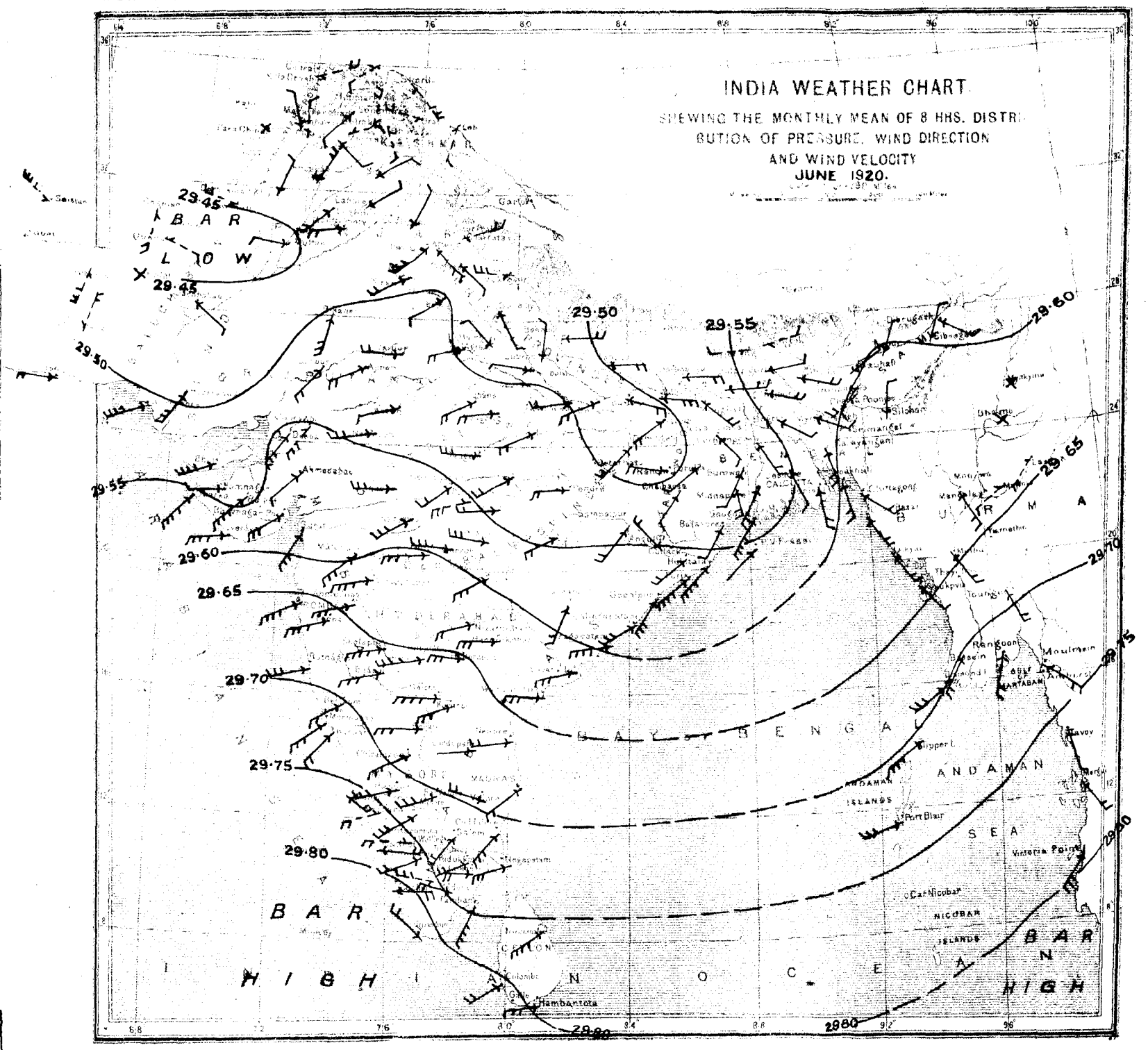
Number of Sub-division.	Station.	Temperature of air.													Wind direction.										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily 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.																								
	Chumbi	54·4	53·3	64·2	...	43·1	...	56·1	...	18·1	72·0	27th	38·2	11th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	97·9	71·7	111·0	...	80·0	...	95·5	...	31·0	119·0	27th	75·0	6th	0	22	1	0	0	4	0	1	2	N 5° W	...

C—*concluded.*

and fifth class stations in India, etc., in June, 1920—*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 1920.	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.
...	...	...	...	...	94	...	·402	...	4·4	...	6	−3·4	2·40	6·08	−3·68	7·05	10·32	−3·27	1·21	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	9	+1·0	3·04	4·88	−1·84	22·62	22·14	+0·48	0·75	Pemba.
...	...	...	66	...	29	...	·433	...	...	...	0	...	0	...	...	0	...	...	0	Abadan.

SGPI-21-IV-5—(13)-29-12-22—325.

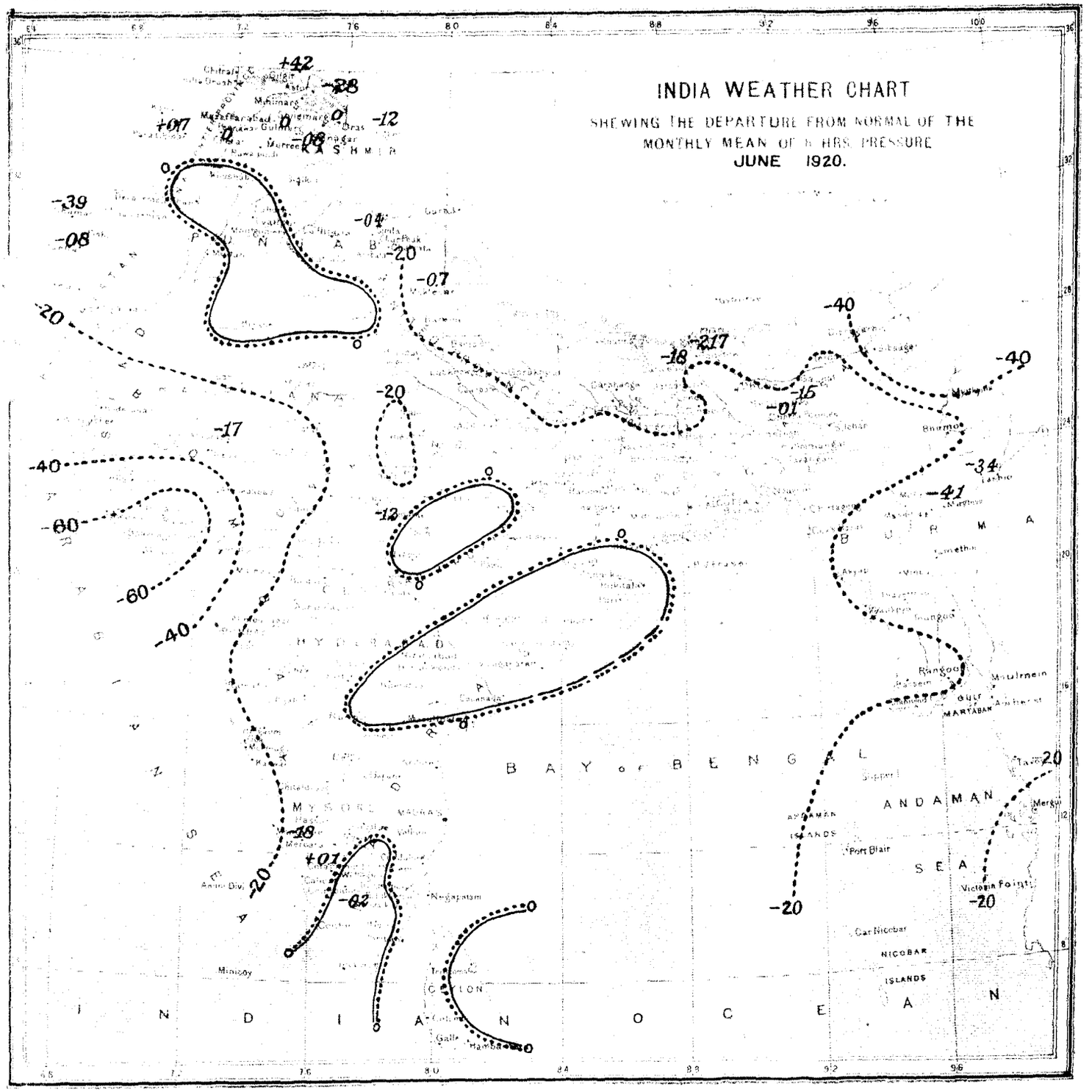


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

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.

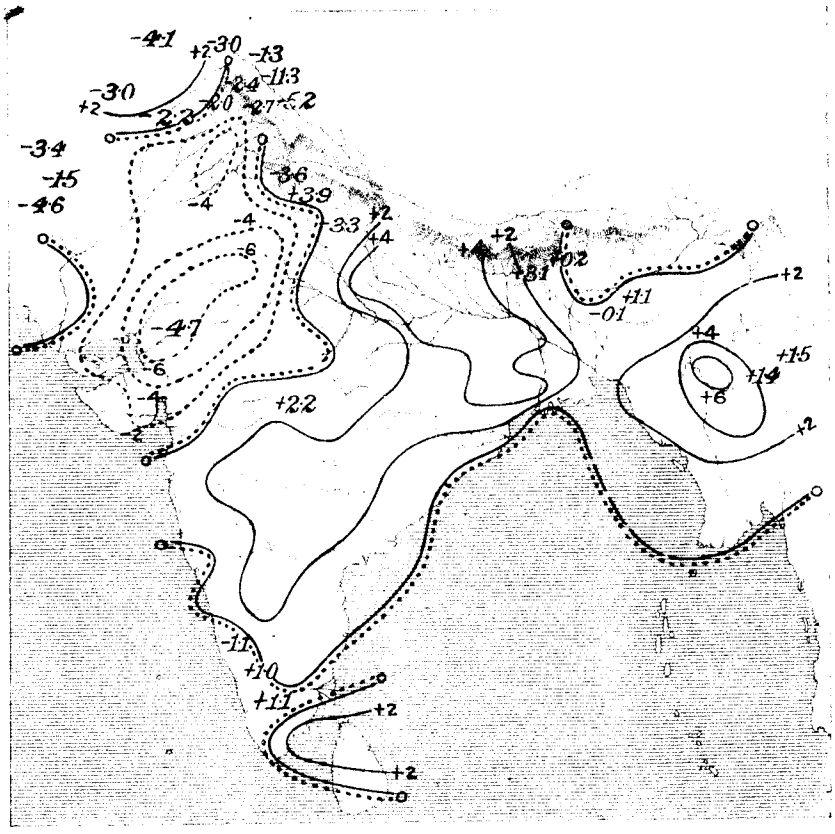


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

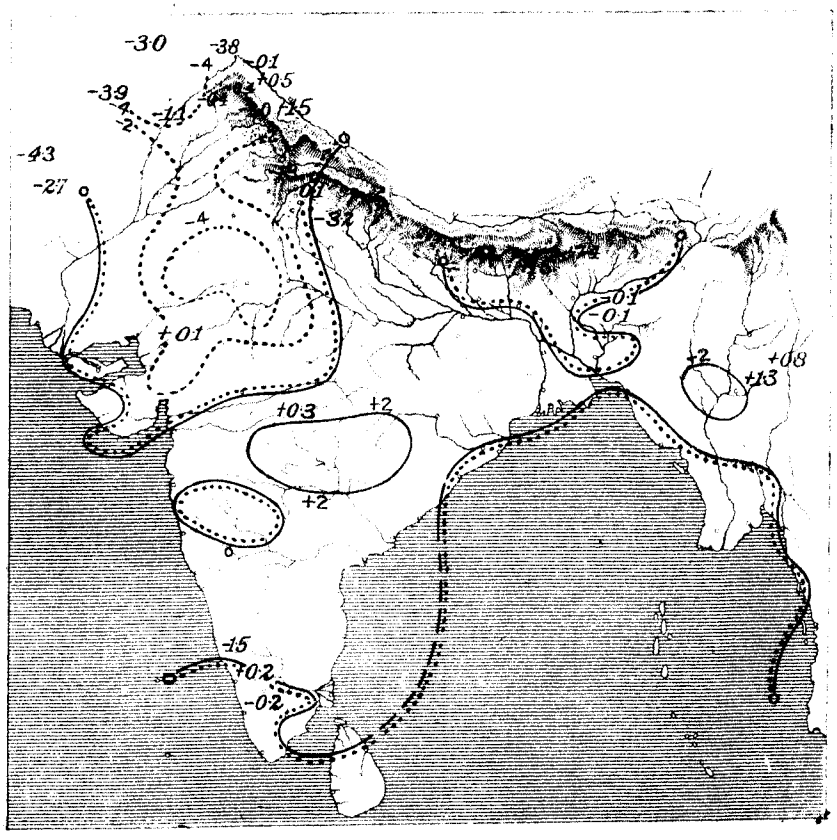


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

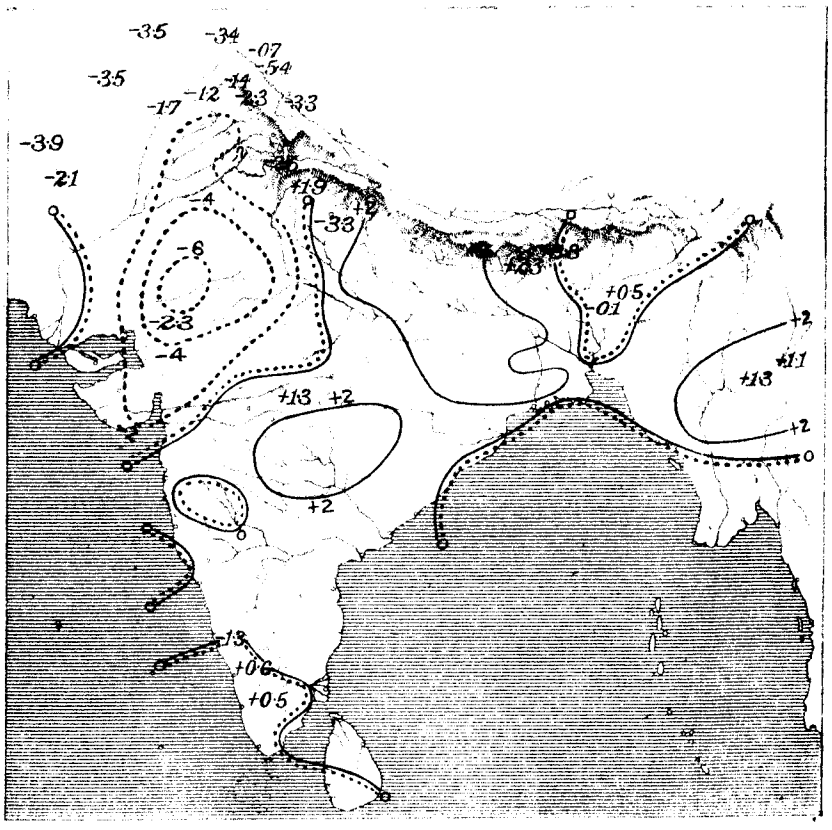


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

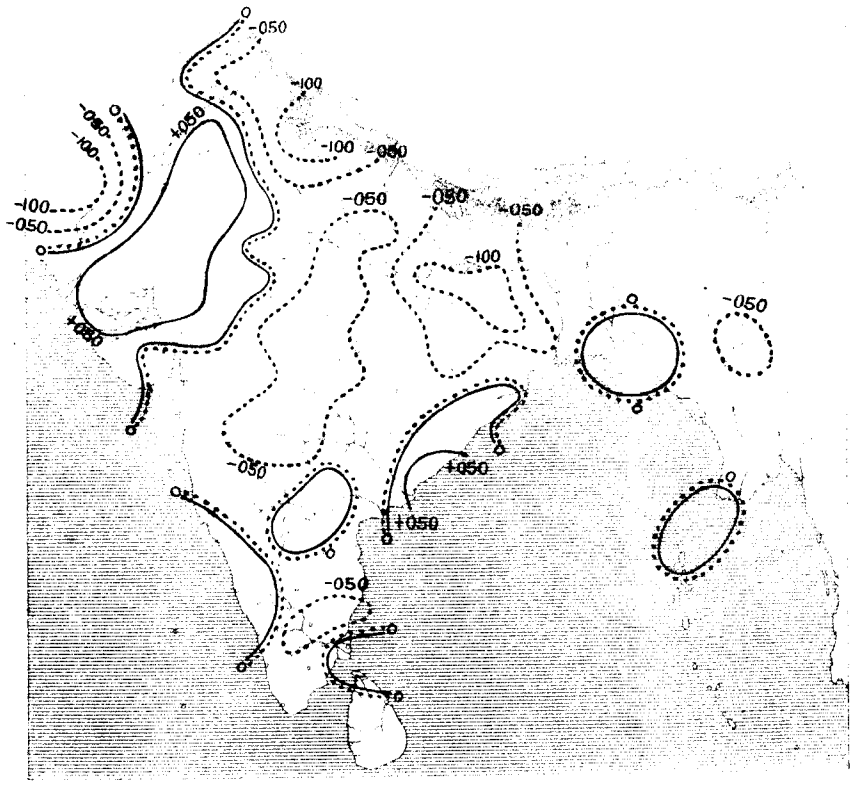


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

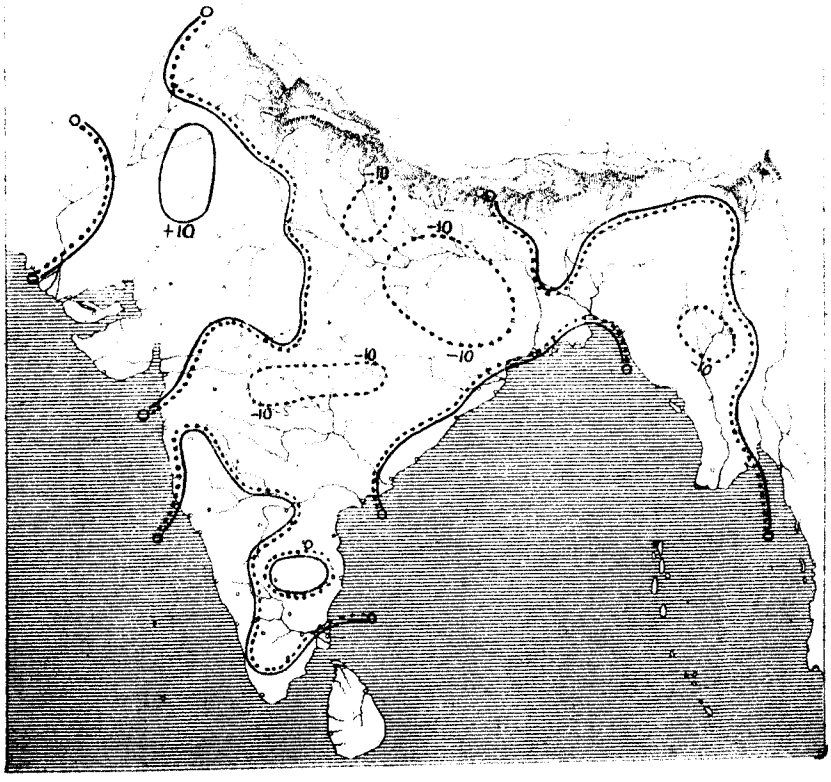


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

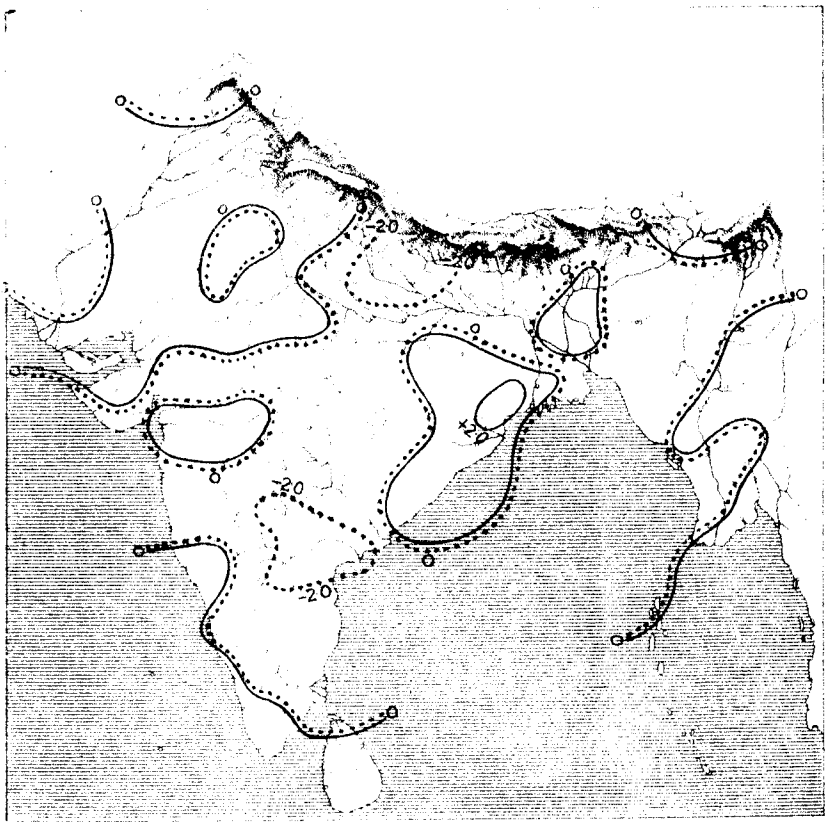
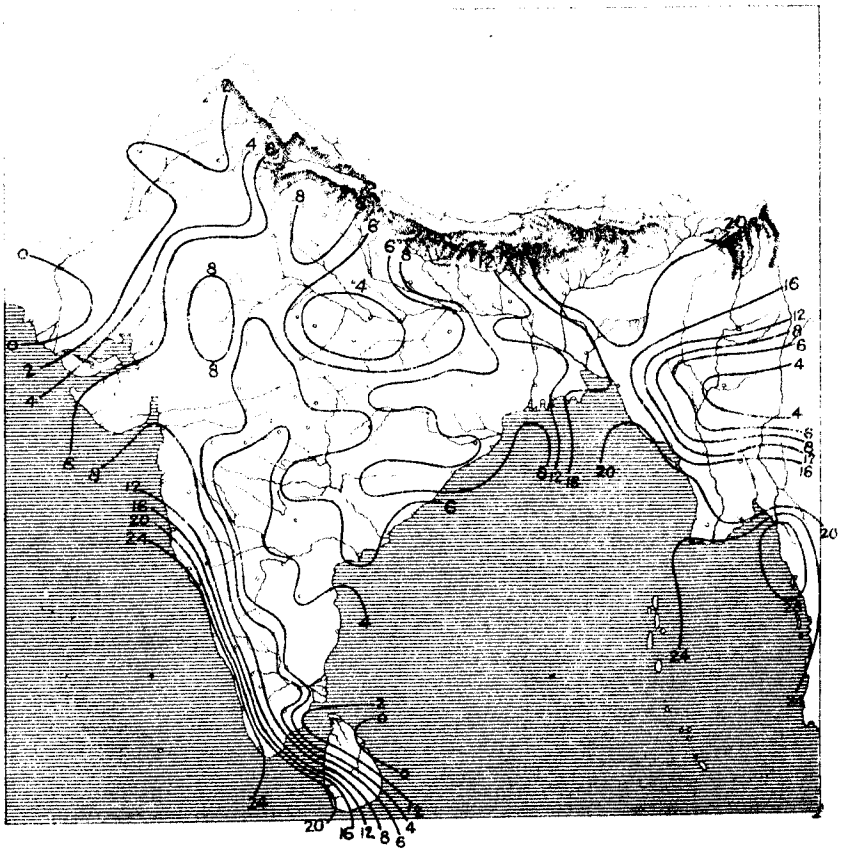
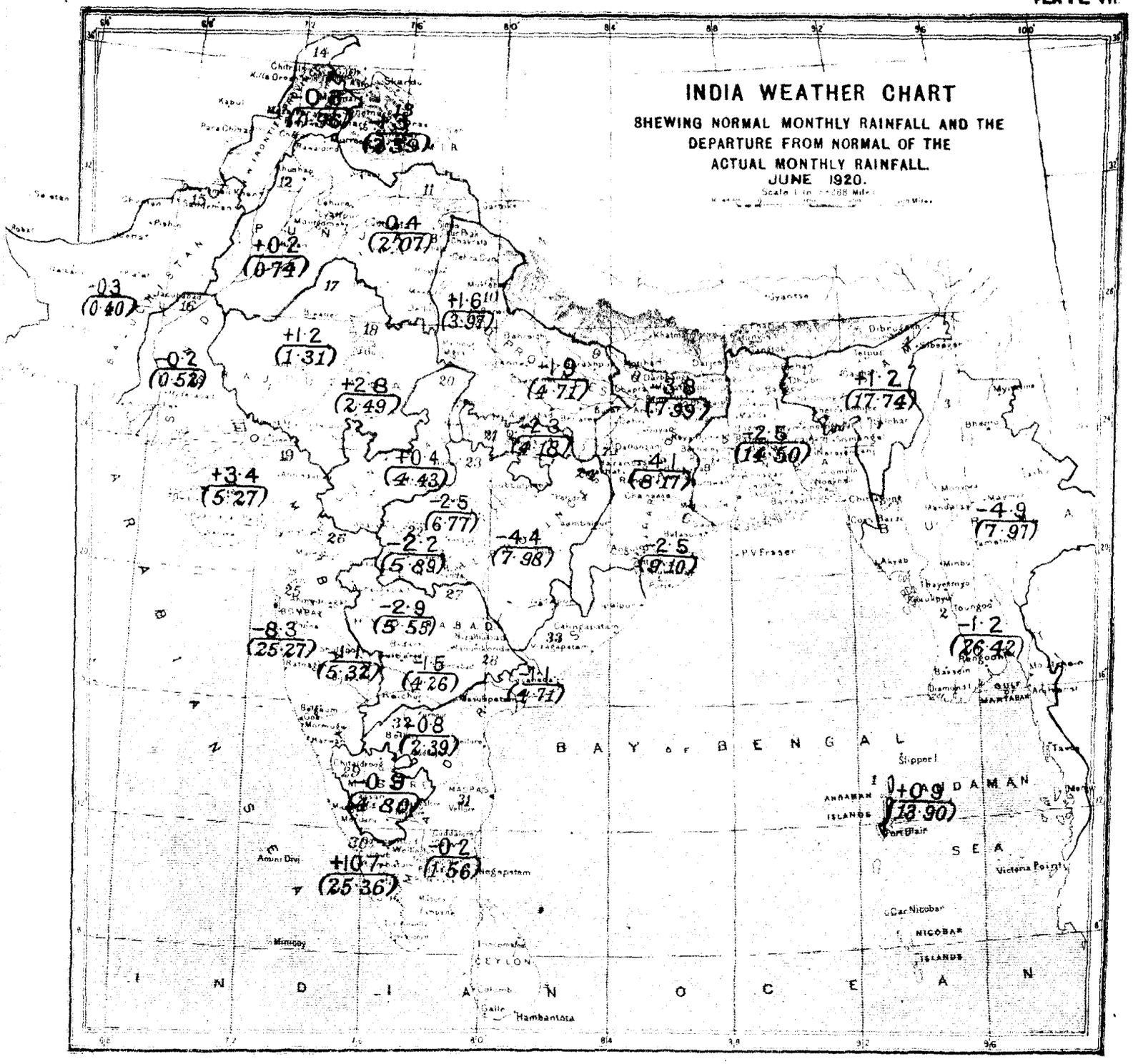


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)

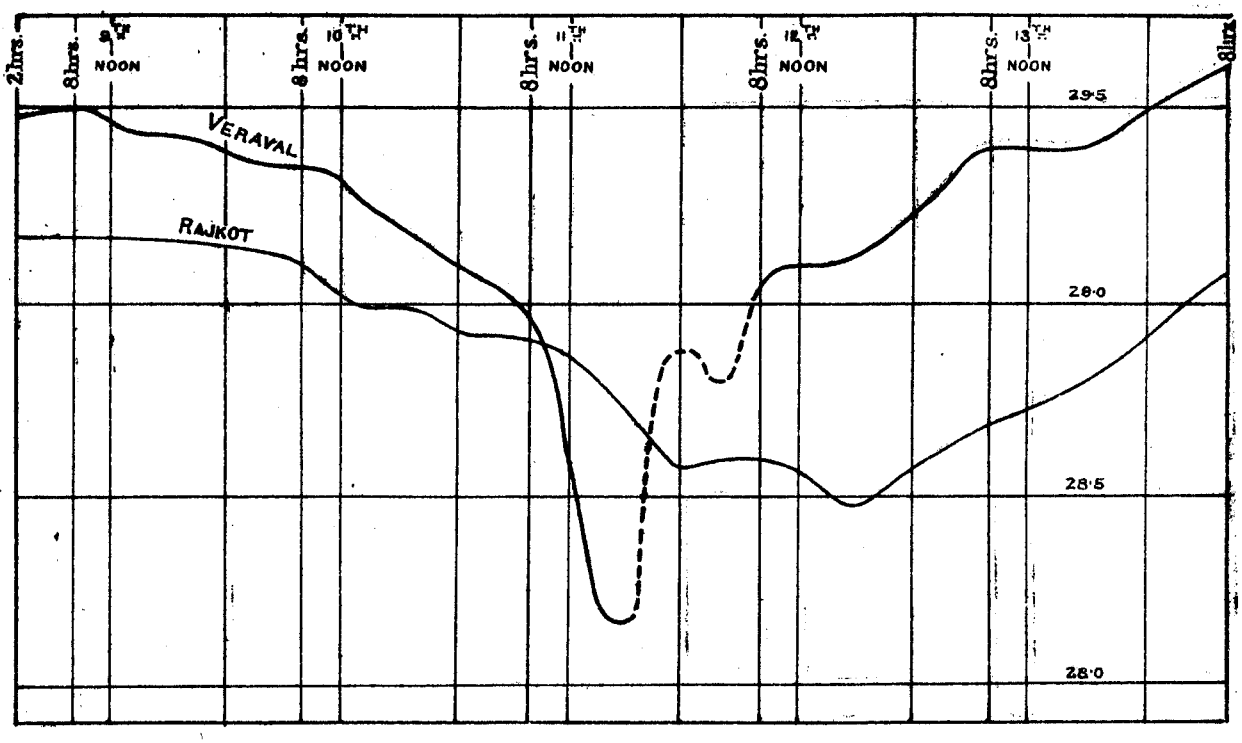




The country is divided into 33 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall, the numbers above these give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

Pressure changes at Veraval and Rajkot during the passage of the storm, June 11th & 12th 1920.



The diagrams are based upon 3-hourly eye readings of mercurial barometers. At Veraval no readings were made between 17 hrs. on 11th and 8 hrs. on 12th. The dotted line between these hours follows in shape the trace of the Veraval barograph, which however was sluggish and showed a much smaller range of pressure than the eye readings.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MONTHLY WEATHER REVIEW

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, JULY, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of July, 1920, is based on observations taken daily at 8 hrs. at 212 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 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.

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 weaker than usual, and rainfall was in defect over the greater part of the Peninsula and in northwest India with the exception of Rajputana. The Bay current on the other hand was more active than usual, and, aided by two depressions and a storm from the head of the Bay, gave abundant rain in Bihar and Orissa and the United Provinces. Rainfall was also in excess in Lower Burma and Central India.

The departures of humidity and cloud amount agreed generally with those of rainfall. Both maximum and minimum temperatures were appreciably above normal in Kashmir, the North-West Frontier Province and Baluchistan. Maximum temperature was below normal in Orissa, the United Provinces, Rajputana, Central India, and the north of the Central Provinces.

Barometric pressure averaged over the plains of India was ·025″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—On six days during the month, the Sun could not be observed for spots and faculæ. Complete prominence observations were possible on only 14 days, observations being incomplete on 8 other days.

Sunspots.—9 new groups were recorded. The mean daily number was 2·8 and the average life of a spot was 6·7 days as against 2·7 and 6·6 days respectively in June. The spots were distributed in latitude as follows :—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitude.
North	1	3	12°·5	9 & 17
South	3	2	8·6	4 & 14

Prominences.—18 prominences, a minute or more in height, and 5 metallic prominences were recorded. The tallest of them was a detached cloud 145″ high and was photographed on the 4th at the Equator on the east limb.

Magnetic Disturbances.—"Moderate" disturbances were registered from the 6th to 8th, on the 12th, from the 15th to 18th and on 23rd.

T. ROYDS,
Acting Director,
Kodaikanal and Madras Observatories.

Seismic records.

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

Apparatus.—Milne's Horizontal Pendulum Seismograph.

TABLE 2.

	V	To	ϵ	$\frac{r}{To^2}$
AN:				
AE:	9·76	18·0	1	2·6
AZ:				

Date.	Phase.	Time G. M. T.	Period. (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
July 1st	e P	2 32 06	...	...	...	...	...	
	F	2 34 06	...	...	...	...	...	Widening of line.
" "	e P	3 19 06	...	...	...	...	...	
	F	3 21 18	...	...	...	...	...	Ditto.
" "	e P	3 41 18	...	...	...	...	...	
	F	3 43 18	...	...	...	...	...	Ditto.
" "	e P	14 15 06	...	...	...	...	...	
	F	14 18 42	...	...	...	...	...	Ditto.
1920.		h. m. s.						
July 1st	e P	18 16 12	...	...	...	...	...	
	F	18 20 12	...	...	...	...	...	Widening of line.
" 2nd	e P	2 58 00	...	...	...	...	...	
	e L	3 13 24	...	...	...	...	...	
	M	3 16 00	...	...	100	...	...	
	F	3 44 12	...	...	...	...	...	
" 4th	e P	9 15 06	...	...	...	...	...	
	F	9 21 12	...	...	...	...	...	Ditto.
" 6th	e P	3 59 24	...	...	...	...	...	
	F	4 05 30	...	...	...	...	...	Widening of line (no prints).
" "	e P	15 51 30	...	...	...	...	...	
	F	15 54 36	...	...	...	...	...	Widening of line.
" 7th	e P	19 43 18	...	...	...	...	...	
	F	19 47 24	...	...	...	...	...	Ditto.
" 8th	e P	5 04 18	...	...	...	...	...	
	F	5 06 54	...	...	...	...	...	Ditto.
" 10th	e P	10 19 30	...	...	...	...	...	
	F	10 21 06	...	...	...	...	...	Ditto.
" "	e P	16 02 42	...	...	...	...	...	
	e L	16 09 18	...	...	...	...	...	
	M	16 11 54	...	...	50	...	...	
	F	16 17 00	...	...	...	...	...	

A. A. NARAYANA AYYAR,
Acting Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of July, 1920, the traces showed 11 calm days and 20 days of small disturbance.

The days of the month selected as 'Quiet' for the purposes of the Magnetic Survey of India are the 3rd, 5th, 20th, 21st 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		
2	C	10	S	18	S	25	S
3	C	11	S	19	C	26	C
4	C	12	S	20	C	27	S
5	C	13	S	21	C	28	C
6	S	14	S	22	S	29	C
7	S	15	S	23	S	30	S
8	S	16	S	24	S	31	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° 19′ 47″.
Horizontal force	0·36932 C. G. S. unit.
Vertical force	0·17157 C. G. S. unit.
Inclination	24° 56′·0.
Horizontal force range . . .	0·00047 C. G. S. unit.
Horizontal force summed range .	0·00330 C. G. S. unit.
Declination range . . .	4′·8.
Declination summed range . .	22′·7.

(NOTE.—Summed range means sum without regard to sign of 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 (E.-W.)

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.

No disturbance was recorded during the month of July 1920.

SHAMSHAD ALI,
for *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	30	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
July 2nd	P	21 45 48	3	...	...	...	...	
	L	21 52 30	6	...	...	...	...	
	F	22 27 12	...	...	...	...	...	
„ 10th	P	16 6 30	2	...	...	...	...	
	L	16 8 54	5	...	...	...	...	
	F	16 27 0	...	...	...	...	...	

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	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) An.	Ae.	Az.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
July 2nd	P	21 46 24	...	...	...	...	...	
	e L	21 54 24	...	...	...	...	...	
	M	22 06 18	...	29	...	...	...	
	F	22 48 48	...	...	...	...	...	
„ 10th	e	16 03 06	...	...	...	...	...	
	M	16 04 12	...	54	...	...	...	
	F	16 21 06	...	...	...	...	...	
„ 28th	e	12 56 36	...	...	...	...	...	
	F	12 58 00	...	...	...	...	...	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.
	1920	h. m.	s.			
Poo (Bashahr State, *viâ* Simla) .	July 4th	about 23½ hours.	...	...	...	
Shillong . .	„ 11th	15 07	½	5	1	
Drosh . . .	„ 23rd	20 05	10	7	4	
Akyab . . .	„ 31st	11 57	2	3	1	

S. SITARAMAYYA,
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.	+ ·054	+ ·043	+ ·019
Actual mean wind direction . .	S 59° E	S 27° W	S 29° E
Normal mean wind direction . .	S 64° E	S 15° W	S 33° E
Actual mean wind velocity (miles per diem).	230	127	265
Normal mean wind velocity (miles per diem).	204	144	211
Rainfall departure from normal (in inches).	−0·21	−2·32	+0·12

Depressions and cyclonic storms.

8. Three depressions formed at the head of the Bay during the month. The first depression appeared at the head of the Bay on the 13th, and disappeared over Chota Nagpur on the 14th after causing locally heavy rain there and in the east of the United Provinces.

The second lay over deltaic Bengal on the 20th and 21st, and extending over the head of the Bay on the 22nd, developed into a storm of slight intensity there during the day. At 8 hours of the 23rd its centre was off Saugor Island; crossing the coast in the afternoon and moving in a westerly direction it was situated in the neighbourhood of Raipur on the morning of the 24th. Thence it travelled in a northwesterly direction and gradually weakening lay near Agra on the 26th. It moved then towards the Kumaon hills and finally disappeared on the 29th. The storm caused heavy rain along its track and destructive floods in Orissa and southwest Bengal. The Takavi embankment of the Cossye river was breached near Dobandhi to the extent of a hundred feet and the depth of water there was 16 feet on the 23rd. As a consequence 52 square miles were flooded in Tamluk and half the huts in the area were expected to collapse; 30,000 to 35,000 people were rendered homeless. Parts of Jamshedpur were under water owing to floods in the Khorkai and Subarnarekha; and the flood in the latter also submerged several villages in the north of Balasore district. In the district of Cuttack heavy floods in the Brahmani and Baitarani flooded several villages near Jena and Jaipur and destroyed several houses in the Kanika Raj.

The third depression formed on the 30th and crossed the coast near Balasore on the 31st; after giving locally heavy rain in Orissa, it disappeared over Chota Nagpur on the 1st of August. It gave rise to floods in the Brahmani, Baitarani and the other rivers in Cuttack and caused serious damage to crops over a considerable area in the Kanika Raj.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·036
Assam	—·044
Bengal	—·068
Bihar and Orissa	—·053
United Provinces	—·029
Punjab	—·034
North-West Frontier Province	—·059
Sind	—·034
Rajputana	—·019
Bombay	—·013
Central India	—·025
Central Provinces	—·016
Hyderabad	+·003
Mysore	+·004
Madras	+·005

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·025	Jacobabad	—·035	—·010
Leh	—·002	Lahore	—·038	—·036
Murree	—·022	Peshawar	—·069	—·047
Simla	—·010	Ludhiana	—·032	—·022
Mukteswar	—·020	Bareilly	—·036	—·016
Darjiling	—·034	Dhubri	—·044	—·010
Mount Abu	—·015	Deesa	—·008	+·007
Pachmarhi	—·026	Khandwa	—·010	+·016
Kodaikanal	+·014	Madura	+·024	+·010

Temperature.

10. Table 11 gives the actual temperature 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	84·7	77·9	81·3	6·8	—0·7	+0·5	—1·2
2. Lower Burma	84·3	75·4	79·8	8·9	—0·3	+0·2	—0·5
3. Upper Burma	90·9	76·4	83·7	14·5	+1·2	+0·6	+0·6
4. Assam	90·1	77·9	84·0	12·3	+1·6	+0·5	+1·1
5. Bengal	88·3	78·7	83·5	9·6	+0·3	+0·4	—0·1
6. Orissa	85·9	77·6	81·8	8·3	—2·5	—0·5	—2·0
7. Chota-Nagpur	87·8	76·5	82·2	11·3	—1·3	+0·2	—1·5
8. Bihar	91·2	79·5	85·3	11·8	+0·7	+0·4	+0·3
9. United Provinces, East	90·1	79·0	84·5	11·1	—2·2	—0·5	—1·7
10. Do. do., West	90·7	79·0	84·8	11·7	—2·3	—0·5	—1·8
11. Punjab, East and North	98·2	81·2	89·7	17·1	+0·4	+0·9	—0·5
12. Do., South-west	104·8	85·1	95·0	19·7	+1·1	+1·8	—0·7
13. Kashmir	85·6	59·7	72·7	25·9	+3·7	+2·2	+1·5
14. North-West Frontier Province	107·7	84·2	95·9	23·5	+4·7	+3·4	+1·3
15. Baluchistan	102·2	74·3	88·3	28·0	+4·8	+3·5	+1·3
16. Sind	99·3	83·6	91·5	15·7	+0·7	+1·6	—0·9
17. Rajputana, West	97·9	79·7	88·9	18·1	—1·5	—2·1	+0·6
18. Do., East	88·5	77·1	82·8	11·4	—5·2	—1·9	—3·3
19. Gujarat	88·5	78·5	83·5	10·1	—1·0	+0·3	—1·3
20. Central India, West	83·9	73·3	78·5	10·6	—2·7	—0·3	—2·4
21. Do. do., East	86·3	77·5	81·9	8·7	—3·1	—0·5	—2·6
22. Berar	86·7	73·6	80·2	13·0	—0·3	+0·7	—1·0
23. Central Provinces, West	84·2	74·1	79·2	10·0	—2·5	—0·4	—2·1
24. Do. do., East	84·3	74·3	79·3	10·1	—1·7	+0·5	—2·2
25. Konkan	83·7	76·5	80·1	7·3	0	+0·3	—0·3
26. Bombay Deccan	84·6	71·0	77·8	13·6	0	+0·2	—0·2
27. Hyderabad, North	88·5	72·9	80·7	15·7	+0·9	+0·7	+0·2
28. Do., South	90·6	73·7	82·2	16·9	+1·7	+0·3	+1·4
29. Mysore	81·9	67·4	74·7	14·6	—0·2	+0·2	—0·4
30. Malabar	82·3	74·2	78·3	8·1	—0·6	+0·1	—0·7
31. Madras, South-east	95·3	77·9	86·6	17·4	+1·1	+1·2	—0·1
32. Do., Deccan	93·9	76·9	85·4	17·0	+1·1	+1·0	+0·1
33. Do., Coast, North	93·2	80·5	86·8	12·7	+1·9	+1·4	+0·5

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—Wind directions were more easterly than usual in Bengal and northeast Baluchistan. The westerly component was stronger than usual in the central parts of the country.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	4·8	+0·5	68	+ 3
Assam	2·4	—0·1	29	+ 12
Bengal	4·3	0	50	— 7
Bihar and Orissa	4·4	+0·5	56	+ 9
United Provinces	2·2	—0·5	23	— 2
Punjab	3·7	+0·5	44	+ 9
North-West Frontier Province	1·5	—0·9	43	+ 6
Sind	9·3	—0·3	81	+ 4
Rajputana	6·3	+0·2	63	+ 5
Bombay	9·0	—1·5	87	+ 9
Central India	5·7	—0·2	74	+ 9
Central Provinces	6·3	+0·7	79	+ 5
Hyderabad	12·6	+2·7	96	+15
Mysore	7·8	+0·4	89	— 2
Madras	6·9	+1·1	82	+11

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore, Bangalore, Akyab and Calcutta during the month are given in the following table :—

TABLE 14.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·31 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.			
	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L
Ground level.	32	3·4	1·1	229	6	0·4	0·4	335	21	1·2	0·3	142	8	7·7	7·6	261	11	2·0	1·8	161	25	2·9	1·4	135
0·5	31	8·6	5·0	267	...	...	...	...	19	7·8	5·2	170	...	...	...	...	8	9·1	7·2	198	25	5·1	2·6	147
1·0	21	7·5	3·5	310	...	...	...	...	20	5·9	2·6	217	8	9·6	9·6	264	3	6·0	4·1	161	15	5·2	2·0	200
1·5	19	6·3	1·7	5	...	...	...	...	20	3·9	1·3	302	8	10·9	10·8	268	2	5·7	3·9	220	6	3·6	1·5	224
2·0	14	5·1	2·7	47	..	...	...	...	20	3·9	2·8	321	5	11·2	11·1	283	1	3·0	3·0	190	4	3·6	1·4	217
2·5	12	4·7	2·7	39	6	3·4	2·5	322	20	4·5	3·7	334	2	11·0	11·0	279	...	...	...	...	1	3·0	3·0	85
3·0	10	5·4	3·4	14	4	3·7	3·1	327	17	5·4	5·2	355	...	...	...	...	...	...	...	...	1	4·0	4·0	90
3·5	7	4·1	2·8	337	5	1·9	1·3	340	17	7·6	7·5	3	...	...	...	...	...	...	...	...	1	3·0	3·0	105
4·0	5	3·7	3·4	353	5	2·8	1·6	321	15	7·9	7·6	357	...	...	...	...	...	...	...	...	...	...	...	...
4·5	4	2·7	1·5	355	3	2·5	0·7	215	14	8·6	8·4	357	...	...	...	...	...	...	...	...	...	...	...	...
5·0	3	2·8	1·7	286	1	4·5	4·5	235	14	8·4	8·2	354	...	...	...	...	...	...	...	...	...	...	...	...
5·5	3	3·5	0·4	12	...	...	...	...	12	6·3	5·6	355	...	...	...	...	...	...	...	...	...	...	...	...
·0	4	4·3	1·5	113	...	...	...	...	12	5·7	4·5	331	...	...	...	...	...	...	...	...	...	...	...	...
6·5	4	4·0	3·2	103	...	...	...	...	12	5·1	4·1	325	...	...	...	...	...	...	...	...	...	...	...	...
7·0	3	4·0	3·8	116	...	...	...	...	12	5·3	4·2	325	...	...	...	...	...	...	...	...	...	...	...	...
7·5	3	4·8	4·5	76	...	...	...	...	12	5·9	4·4	313	...	...	...	...	...	...	...	...	...	...	...	...
8·0	2	7·3	6·1	91	...	...	...	...	10	6·5	5·0	305	...	...	...	...	...	...	...	...	...	...	...	...
8·5	2	8·3	7·1	86	...	...	...	...	10	6·8	5·5	308	...	...	...	...	...	...	...	...	...	...	...	...
9·0	2	9·0	7·1	88	...	...	...	...	9	6·8	5·4	303	...	...	...	...	...	...	...	...	...	...	...	...
9·5	2	10·0	7·1	86	...	...	...	...	8	7·1	5·9	301	...	...	...	...	...	...	...	...	...	...	...	...
10·0	2	11·3	7·4	85	...	...	...	...	8	7·8	7·1	295	...	...	...	...	...	...	...	...	...	...	...	...
10·5	2	10·5	7·1	96	...	...	...	...	7	8·6	7·7	289	...	...	...	...	...	...	...	...	...	...	...	...
11·0	1	10·5	10·5	155	...	...	...	...	6	9·8	8·8	300	...	...	...	...	...	...	...	...	...	...	...	...
11·5	...	...	...	...	...	...	...	...	4	14·3	13·8	294	...	...	...	...	...	...	...	...	...	...	...	...
12·0	...	...	...	...	...	...	...	...	3	15·7	15·1	298	...	...	...	...	...	...	...	...	...	...	...	...
12·5	...	...	...	...	...	...	...	...	2	14·5	14·3	296	...	...	...	...	...	...	...	...	...	...	...	...

n = Number of flights. V—Velocity of wind regardless of direction, metre per sec.
v = Velocity of Resultant Wind, taking account of direction, metre per sec.
L = Direction o „ „ North Wind = 0° or 360° East Wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours with their departures from normal :—

TABLE 15.

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 . . .	89	0	·882	0	8·7	+0·6
Assam . . .	83	− 2	·956	+·013	6·5	—1·5
Bengal . .	89	0	·964	+·001	8·2	+0·2
Bihar and Orissa .	88	+ 3	·933	+·009	8·4	+1·3
United Provinces .	86	+ 4	·941	+·013	7·5	+1·0
Punjab . .	67	− 2	·863	+·016	3·4	—0·9
North-West Frontier Province.	65	− 1	·882	+·027	1·5	—1·2
Sind . . .	69	− 3	·898	0	3·4	—1·4
Rajputana . .	76	+ 4	·819	—·010	6·0	+0·2
Bombay . .	83	0	·828	—·006	8·6	+0·3
Central India .	88	+ 5	·842	+·010	8·9	+0·9
Central Provinces .	82	− 2	·762	—·036	7·9	+0·6
Hyderabad . .	76	− 2	·708	−·019	7·6	+0·1
Mysore . .	82	− 2	·627	−·014	8·8	0
Madras . .	73	— 4	·782	—·022	7·3	+0·1

Rainfall.

13. The total rainfall of the month was about double the normal amount in Orissa and Chota Nagpur; it was in moderate excess in Lower Burma, the United Provinces and Rajputana, and in slight excess in the Bay Islands, Bihar, Central India and Malabar. Rainfall was below normal by 50 per cent. or more in Baluchistan, Sind, Hyderabad North, Madras Southeast, and the Madras Deccan, and by 25 to 50 per cent. in Assam, the Punjab Southwest, Kashmir, the North-West Frontier Province, Gujarat, Berar and the Madras Coast North.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	15·0	16·3	14·27	12·70	+1·57	+ 12
2. Lower Burma	27·2	25·2	42·15	32·08	+10·07	+ 31
3. Upper Burma	10·1	9·9	6·55	6·54	+0·01	0
4. Assam	15·7	18·7	13·61	18·22	−4·61	— 25
5. Bengal	18·0	16·7	14·16	15·25	−1·09	— 7
6. Orissa	20·2	15·3	23·78	13·04	+10·74	+ 82
7. Chota Nagpur	24·1	15·3	27·41	12·55	+14·86	+118
8. Bihar	17·0	13·5	14·55	12·00	+2·55	+ 21
9. United Provinces, East	19·1	12·4	17·84	11·44	+6·40	+ 56
10. Do. do., West	14·4	11·4	15·26	11·41	+3·85	+ 34

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
11. Punjab, East and North	6·4	6·7	6·40	6·20	+0·20	+ 3
12. Do., South-west	1·8	3·1	1·48	2·50	−1·02	− 41
13. Kashmir	5·6	8·0	4·72	7·23	−2·51	− 35
14. North-West Frontier Province	2·4	3·9	1·53	2·83	−1·30	− 46
15. Baluchistan	0·8	1·7	0·34	0·99	−0·65	− 66
16. Sind	0·9	2·7	0·45	2·61	−2·16	− 83
17. Rajputana, West	4·7	4·7	4·33	3·55	+0·78	+ 22
18. Do., East	11·6	9·5	10·64	8·19	+2·45	+ 30
19. Gujarat	13·2	12·8	9·47	13·30	−3·83	− 29
20. Central India, West	14·4	11·6	12·83	10·17	+2·66	+ 26
21. Do., East	17·1	12·5	14·23	12·02	+2·21	+ 18
22. Berar	10·1	12·3	4·98	9·34	−4·36	− 47
23. Central Provinces, West	15·5	14·9	12·86	13·77	−0·91	− 7
24. Do., East	17·8	16·3	16·99	15·53	+1·46	+ 9
25. Konkan	28·6	26·3	33·69	40·52	−6·83	− 17
26. Bombay Deccan	11·2	11·6	6·61	8·22	−1·61	− 20
27. Hyderabad, North	6·8	12·1	4·04	8·11	−4·07	− 50
28. Do., South	6·7	10·8	4·87	6·32	−1·45	− 23
29. Mysore	9·7	9·9	7·60	7·42	+0·18	+ 2
30. Malabar	25·9	22·1	31·78	25·58	+6·20	+ 24
31. Madras, South-east	2·3	3·7	0·96	2·09	−1·13	− 54
32. Do. Deccan	3·0	6·4	0·92	3·24	−2·32	− 72
33. Do. Coast, North	7·1	10·0	4·06	6·49	−2·43	− 37

TABLE 17.

Division.	Rainfall			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	20·64	16·65	+3·99	+24
Assam	13·61	18·22	−4·61	−25
Bengal	14·16	15·25	−1·09	− 7
Bihar and Orissa	19·84	12·38	+7·46	+60
United Provinces	16·45	11·42	+5·03	+44
Punjab	5·22	5·32	−0·10	− 2
North-West Frontier Province	1·53	2·83	−1·30	−46

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·45	2·61	−2·16	−83
Rajputana	8·72	6·77	+1·95	+29
Bombay	12·40	15·66	−3·26	−21
Central India	13·36	10·86	+2·50	+23
Central Provinces	12·55	13·35	−0·80	− 6
Hyderabad	4·44	7·26	−2·82	−39
Mysore	7·60	7·42	+0·18	+ 2
Madras	8·27	8·28	−0·01	0
Mean of India	11·93	11·08	+0·85	+ 8

Snowfall.

I.—THE NORTH-WEST FRONTIER PROVINCE.

14. (*a*) *Kurram.*—No snow fell during the month.

(*b*) *Drosh.*—No snow fell during the month; the accumulations on the high ranges at the end of the month were 3 feet deep.

(*c*) *Khyber.*—No snow fell in the Khyber Agency or the adjacent mountain regions in eastern Afghanistan. The accumulation of snow on the Hindu Kush and Sufed Koh ranges was considerably above normal at the end of the month, and the snow extended to lower levels than usual owing to heavy snowfall in May. On the other hand the accumulation of snow on the mountain ranges and passes of Tirah was below the average.

(*d*) *Malakand.*—No snow fell in the Agency during the month.

(*e*) *Abbottabad* (*Hazara*).—Two inches of snow fell in the Kagan valley at altitudes of 11,000 to 17,000 feet. There was no indication of any accumulations at the end of the month.

II.—KASHMIR.

(*a*) *Srinagar.*—No snow fell on the mountain ranges surrounding Srinagar.

(*b*) *Sonamarg.*—There was no snowfall during the month and there was no snow lying on the mountains at the end of the month.

(*c*) *Skardu.*—Light snow fell on the 26th and 27th on the highest mountains in the district, but it melted away soon.

(*d*) *Gulmarg and Dras.*—There was no fresh snowfall in July, but there was slight snow lying on the surrounding mountain ranges at the end of the month.

(*e*) *Kargil*—There was no snowfall during the month.

(*f*) *Leh.*—No snow fell during the month and the mountain ranges and passes were free of snow at the end of the month.

III.—THE PUNJAB.

(*a*) *Chamba.*—There was no fresh snowfall below 17,000 feet and the fall above that height was very light.

(*b*) *Naggar* (*Kulu Hills*).—There was no heavy snowfall, but the accumulations were largely above normal.

(*c*) *Kilba* (*Simla Hills*).—The Deputy Conservator of Forests crossed the Rupan pass on the 12th and found 10 to 20 feet on the west side; the accumulations were unusually heavy, but were melting away rapidly owing to warm weather.

IV.—THE UNITED PROVINCES.

(*a*) *Garhwal.*—There was no snow except on the highest ranges and the accumulation was considerably reduced by heavy rain. According to the information of the local people the accumulations about 12,000 feet at the end of the month were 2 or 3 feet deep, but in the opinion of the Deputy Commissioner there could not be more than a foot or so below 14,000 feet; he thought however that the amount above 14,000 feet was probably somewhat more than the normal, as melting began later than usual.

(*b*) *Almora.*—

Actual falls.

TABLE 18.

Locality.	Depth.		Descent below perpetual snowline.
	Feet.	Inches.	
Malla Durma	6	6	½ mile.
Byans	6	5	1 ½ miles.
Chaudas	2	10	¾ mile.

TABLE 19.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Nuwe pass	13½	14¼
Lipulekh ,, ...	5 or 6	3
Lampia ,, ...	6 or 7	3¾
Binkaru ,, ...	4½	6½

V.—THE EASTERN HIMALAYAS.

(*a*) *Gangtok.*—No snow fell during the month.

(*b*) *Yatung.*—Snowfall between 12,000 and 15,000 feet was six weeks later than usual in the year 1920. Between these elevations in the Sikkim and Chumbi valleys there was as much snow at the end of the first week of July as during the last week of May in average years.

Summary.

15. The month's fall was in defect almost everywhere, but the accumulations at the end of the month were above normal in the Punjab, the United Provinces and the eastern Himalayas.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in July, 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·493	29·407	·086	29·456	—·084	29·425	88·5	79·6	8·9	95·3	77·0	18·3	84·4	85·6	83·8	+0·8	78·0	80·6	81·4	80·0
	VI.—Punjab.																					
11	Lahore	702	28·768	28·671	·097	28·715	—·053	29·355	102·8	84·5	18·3	112·8	76·5	36·3	94·2	101·3	92·8	+3·7	76·8	80·4	81·7	79·7
	IX.—Rajputana.																					
18	Jaipur	1,431	28·144	28·067	·077	28·104	—·011	29·455	89·1	76·7	12·4	100·8	73·2	27·6	82·8	85·9	81·7	—3·0	74·7	76·5	78·0	76·4
	X.—Bombay.																					
25	Bombay	37	29·693	29·631	·062	29·661	—·011	29·638	84·3	78·3	6·0	89·3	75·4	13·9	81·5	81·4	79·8	+0·3	73·9	77·8	77·6	76·4
	XIV.—Mysore.																					
29	Bangalore	3,021	26·874	26·801	·073	26·845	+·017	29·688	83·1	66·3	16·8	87·3	63·7	23·6	75·0	78·1	72·8	+0·8	64·7	67·9	69·0	67·2
	XV.—Madras.																					
31	Trivandrum	198	29·736	29·656	·080	29·703	+·038	29·832	81·3	73·8	7·5	83·5	70·0	13·5	78·3	79·7	76·0	—1·2		74·7	75·5	
	Pudukkottai	318	29·523	29·405	·118	29·464		29·705	97·9	77·6	20·3	101·9	72·1	29·8	89·3	93·7	87·7			74·0	75·7	
	Madras	22	29·759	29·632	·127	29·707	—·011	29·659	99·5	80·6	18·9	103·5	76·2	27·3	90·2	95·8	88·6	+2·9	74·2	77·4	77·7	76·4
	Kashmir.																					
13	Srinagar	5,204	24·620	24·524	·096	24·572	—·058	24·543	89·8	66·4	23·4	94·8	59·4	35·4	80·9	88·7	78·8	+5·8	64·0	72·1	74·4	70·2
	Hill stations excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·469	25·419	·050	25·443	+·053	25·306	86·4	69·5	15·9	86·6	66·9	21·7	79·0	80·2	77·0	+1·9	67·1	72·6	74·3	71·3
	Kodaikanal	7,688	22·794	22·747	·047	22·771		22·706	64·0	52·5	11·5	68·1	50·3	17·8	60·8	58·8	58·3		49·5	56·5	55·6	53·9
	Extra India.																					
	Seychelles	15	30·049	29·973	·076	30·012	+·019*	29·950	80·3	76·2	4·1	81·8	74·6	7·2	78·3	79·5	77·0	+0·6*	70·1	73·2	73·8	72·4
	Mauritius	181				30·063	+·054	30·134	73·4	60·8	12·6	75·9	51·8	24·1			66·6	—1·2				

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 3,200 feet.

* Departure from old normal.

A.

at 13 stations in India, etc., in July, 1920.

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.	
·937	·991	1·012	·980	+·009	93	84	83	88	+ 1	9·3	9·8	9·5	+0·9	0	2	1	16	12	10	17	2	2	S 20° E	S 1° W	45	63	93	88	14·47	5·41	Calcutta.	5
																															VI.—Punjab.	
·818	·852	·816	846	—·017	70	54	43	57	— 8	2·9	2·3	2·6	—1·7	8	1	2	6	19	5	6	8	7	S 14° E	S 78° E	26	30	61	60	1·11	0·87	Lahore.	11
																															IX.—Rajputana.	
·833	·838	·852	·850	+·016	91	75	69	80	+ 4	8·3	7·8	8·1	+0·7	7	4	6	4	0	3	20	17	1	S 71° W	N 77° W	40	30	85	95	17·78	5·08	Jaipur.	18
																															X.—Bombay.	
·774	·902	·894	·872	—·049	80	84	84	84	— 3	9·1	9·6	9·3	+0·6	0	0	0	0	0	2	36	23	1	S 62° W	S 75° W	90	83	231	340	22·00	7·18	Bombay.	25
																															XIV.—Mysore.	
·592	·599	·601	·597	—·010	92	69	63	76	— 1	9·7	9·2	9·5		0	0	0	0	0	0	16	44	2	S 80° W	S 72° W	92	88	234	168	0·92	0·39	Bangalore.	29
																															XV.—Madras.	
	·808	·827				84	82			8·9	9·2	9·1	+0·9	0	2	0	0	0	0	0	29	31	N 65° W	N 60° W	90	78	150	158	8·86	1·74	Trivandrum.	31
	·635	·630				46	41			5·2	6·5	5·9		4	3	1	1	1	3	14	24	11	S 87° W		64		112		0·49	0·17	Pudukkottai.	
·758	·767	·707	·759	—·053	73	54	43	58	—10	6·5	8·5	7·5	+0·2	0	0	0	0	3	0	14	44	1	N 78° W	S 51° W	87	66	104	139	2·07	0·39	Madras.	
																															Kashmir.	
·567	·701	·689	·652	+·013	88	66	51	68	—13	2·0	3·0	2·5	—1·5	36	1	1	1	8	1	2	5	7	S 85° W	N 48° W	8	15	41	69	0·38	0·30	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·634	·732	·778	·719	+·026	88	74	76	79	— 2	6·1	7·4	6·7	—0·1	0	1	0	30	0	2	0	29	0	S 45° E	S 63° W	3	11	11	15	11·32	1·59	Katmandu.	
·323	·411	·410	·381		82	77	83	81		8·3	9·3	8·8		0	1	0	0	2	1	2	42	14	N 82° W		84		269		3·23	0·60	Kodaikanal.	
																															Extra India.	
·654	·751	·757	·736	—·015	72	78	75	76	— 2	6·5	5·3	5·9	+0·3†	0	0	0	0*	39	22	0	0	0	S 29° E*	S 23° E	93	86	265	211	2·53	0·51	Seychelles.	
			·495	—·021				75	— 1			6·2	+1·3										S 59° E	S 64° E			168	150	2·23	0·36	Mauritius.	

† Departure from old normal.

* 1 wind less.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in July, 1920.

(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 2,500 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	−·036	87·0	+0·4	75·8	+0·3	81·4	+0·4	11·2	+0·5	+ 3	89	0	·882	0	8·7	+0·6	20·64	16·65	+3·99
Assam	−·044	90·1	+1·6	77·9	+0·5	84·0	+1·1	12·3	−0·1	+13	88	− 2	·956	+·013	6·5	−1·5	13·61	18·22	−4·61
Bengal	−·068	88·8	+0·3	78·7	+0·4	83·5	+0·3	9·6	0	− 7	89	0	·964	+·001	8·2	+0·2	14·16	15·25	−1·09
Bihar and Orissa	−·053	88·7	−0·8	78·1	+0·1	83·4	−0·3	10·6	+0·5	+ 9	88	+ 3	·933	+·009	8·4	+1·3	19·84	12·38	+7·46
United Provinces of Agra and Oudh	−·029	90·3	−2·3	79·0	−0·5	84·7	−1·4	11·3	−0·5	− 2	86	+ 4	·941	+·013	7·5	+1·0	16·45	11·42	+5·03
Punjab	−·034	100·6	+0·7	82·6	+1·2	91·6	+0·9	18·0	+0·5	+ 9	67	− 2	·863	+·016	3·4	−0·9	5·22	5·32	−0·10
North-West Frontier Province	−·059	107·7	+4·7	84·2	+3·4	95·9	+4·1	23·5	−0·9	+ 6	65	− 1	·882	+·027	1·5	−1·2	1·53	2·83	−1·30
Sind	−·034	99·3	+0·7	83·6	+1·6	91·5	+1·2	15·7	−0·3	+ 4	69	− 3	·896	0	3·4	−1·4	0·45	2·61	−2·16
Rajputana	−·019	92·2	−3·7	78·2	−2·0	85·2	−2·9	14·1	+0·2	+ 5	76	+ 4	·819	−·010	6·0	+0·2	8·72	6·77	+1·95
Bombay	−·013	86·2	−0·4	75·5	+0·3	80·8	−0·1	10·6	−1·5	+ 9	83	0	·828	−·006	8·6	+0·3	12·40	15·66	−3·26
Central India	−·025	85·1	−2·9	75·4	−0·4	80·2	−1·7	9·7	−0·2	+ 9	88	+ 5	·842	+·010	8·9	+0·9	13·36	10·86	+2·50
Central Provinces	−·016	84·8	−1·8	74·1	+0·1	79·5	−0·8	10·7	+0·7	+ 5	82	− 2	·762	−·036	7·9	+0·6	12·55	13·35	−0·80
Hyderabad	+·003	89·9	+1·5	73·5	+0·4	81·7	+0·9	16·5	+2·7	+15	76	− 2	·708	−·019	7·6	+0·1	4·44	7·26	−2·82
Mysore	+ 004	81·9	−0·2	67·4	+0·2	74·7	0	14·6	+0·4	− 2	82	− 2	·627	−·014	8·8	0	7·60	7·42	+0·18
Madras	+·005	92·0	+0·9	77·8	+1·0	84·9	+0·9	14·3	+1·1	+11	73	− 4	·782	−·022	7·3	+0·1	8·27	8·28	−0·01

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·722		29·800	29·784	31st	29·614	22nd	79·1	76·5	83·0		75·6		79·3		7·4	85·5	26th	72·2	31st
	Mergui	66	29·777	—·020	29·773	29·850	30th	29·649	22nd	77·3	75·9	83·1	—1·6	74·5	+1·5	78·8	—0·1	8·6	88·7	3rd	72·2	29th, 30th & 31st.
	Tavoy	19	29·806	—·038	29·755	29·902	7th	29·650	22nd	77·5	76·3	83·1	0	75·2	+1·0	79·1	+0·5	7·9	87·2	25th	73·3	21st, 22nd & 30th.
	Moulmein	94	29·797	—·034	29·723	29·789	7th	29·537	22nd	76·6	75·2	81·0	—2·1	75·7	+1·5	78·4	—0·3	5·3	86·3	12th	74·5	8th
	Amherst																					
	Rangoon	18	29·740	—·033	29·696	29·831	7th	29·565	22nd	78·9	77·2	85·0	—0·2	75·5	—0·4	80·2	—0·3	9·5	88·6	4th	73·1	25th
	Bassein	27	29·716	—·034	29·679	29·802	25th	29·535	22nd	80·2	78·4	86·4	+1·4	75·8	—0·2	81·1	+0·6	10·6	91·2	4th	72·9	24th
	Diamond Island	41	29·689	—·048	29·665	29·770	25th	29·521	22nd	82·0	78·7	85·7	+1·3	77·0	+1·8	81·3	+1·5		89·2	25th	73·7	30th
	Toungoo	164								79·1	77·3	85·7	—1·2	73·1*	—1·8*	79·0*	—1·5	12·6	90·7	4th	71·1	30th
	Kyaukpyu	18	29·641		29·602	29·802	25th	29·445	22nd	79·1	77·5	85·2		76·3		80·8		8·9	88·8	5th	72·6	12th
	Akyab	20	29·599	—·084?	29·560	29·702	26th	29·400	22nd	79·4	78·3	84·5	0	75·5	—1·8	80·0	—0·9	9·0	88·6	4th	73·0	30th
3	Minbu	*165*	29·503	—·051	29·610	29·592	7th	29·320	22nd	81·2	77·3	91·9	+1·1	77·7	+0·4	84·9	+0·7	14·2	97·3	6th	72·3	7th
	Yamethin	644	29·051	—·042	29·642	29·140	7th	28·878	22nd	79·5	75·7	90·9	+1·3	75·5	+0·7	83·2	+1·0	15·4	95·9	13th	73·3	30th
	Mandalay	250	29·422	—·039	29·617	29·511	7th	29·308	22nd	84·9	77·2	96·3	+1·8	79·3	+0·7	87·8	+1·3	17·0	102·7	13th	72·3	25th
	Monywa	*280*	29·389	—·036	29·615	29·486	7th	29·279	22nd	82·3	77·2	95·4	+0·5	79·5	+0·4	87·5	+0·5	15·9	100·4	19th	75·9	1st & 2nd.
	Lashio	*2,820*	26·930	—·030	26·876	27·014	7th	26·804	22nd	73·6	70·7	84·0	+0·7	70·9	+1·1	77·4	+0·9	13·1	89·0	7th	68·2	23rd
	Bhamo	*361*	29·283	—·025	29·595	29·365	7th	29·193	22nd	78·9	77·6	90·2	+2·3	75·7	+0·6	83·0	+1·5	14·5	94·1	1st & 2nd.	70·5	7th
	Myitkyina	458	29·171	—·044	29·592	29·281	7th	29·039	22nd	77·7	76·3	87·6	+0·5	76·1	+0·3	81·8	+0·4	11·5	96·8	2nd	73·4	31st
	II.—Assam.																					
4	Dibrugarh	353	29·245	—·050	29·557	29·351	7th	29·099	22nd	79·9	78·0	88·6	+1·4	76·4	+1·0	82·5	+1·2	12·2	94·7	16th	73·9	1st
	Sibsagar	333	29·267	—·055	29·556	29·388	25th	29·121	22nd	80·7	78·8	88·2	—1·4?	79·0	+1·2	83·6	—0·1?	9·2	93·2	16th	75·7	7th
	Tezpur	252	29·356	—·029	29·564	29·479	25th	29·232	22nd	81·0	78·8	90·8	+1·4	78·6	+0·9	84·7	+1·1	12·2	94·5	18th	76·3	5th
	Gauhati	196	29·400	—·040	29·548	29·497	7th	29·285	22nd	83·4	80·1	92·2	+1·8	79·0	+1·0	85·6	+1·4	13·2	96·0	24th	76·7	1st
	Dhubri	115	29·458	—·044	29·526	29·560	26th	29·302	22nd	81·9	79·4	86·5	+0·4	79·3	+1·1	82·9	+0·7	7·2	89·8	7th	76·4	3rd
	Silchar	104	29·519	—·045	29·574	29·634	26th	29·817	22nd	83·0	79·5	92·3	+2·2	77·9	+0·7	85·1	+1·5	14·4	97·4	15th	74·7	7th
	Srimangal	66	29·536		29·551	29·660	26th	29·344	22nd	81·8	78·6	92·4	+2·4	75·0	—1·5	83·7	+0·5	17·4	97·9	23rd	71·6	3rd
	III.—Bengal.																					
5	Cox's Bazar	36	29·570		29·551	29·700	26th	29·360	22nd	80·2	78·0	84·9		76·2		80·6		8·7	88·7	4th	74·3	30th
	Chittagong	87	29·500	—·073	29·532	29·626	26th	29·301	22nd	80·4	77·9	87·0	+1·2	77·0	+0·5	82·0	+0·9	10·0	91·2	23rd	74·9	9th
	Noakhali	43	29·537	—·064	29·527	29·659	26th	29·357	22nd	80·8	78·7	86·0	+0·3	78·5	+1·1	82·3	+0·7	7·5	89·4	23rd	76·2	25th & 26th.
	Barisal	12	29·536	—·072	29·495	29·667	26th	29·356	22nd	80·9	79·2	86·7	—0·7	78·5	—0·1	82·6	—0·4	8·2	92·9	1st	76·0	26th
	Narayanganj	26	29·535	—·062	29·510	29·652	26th	29·380	22nd	82·2	79·0	87·7	—0·5	78·3	—0·8	83·0	—0·7	9·4	92·7	1st	75·6	2nd

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

* Mean of 24 days.

B.

stations in India, etc., in July, 1920.

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 1920.	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	0	0	1	4	3	13	8	1	S 45° W		9·1			66		88		·869		7·4		21	−3·6	33·13	33·41	− 0·28	73·94	81·38	− 7·44	5·65	Victoria Point.
6	0	0	4	10	4	5	1	1	S 43° E	S 70° W	4·3	1·3	+3·0	62	+ 7	94	+ 1	·881	0	7·4	+1·0	28	+2·4	35·56	31·86	+ 3·70	70·32	78·82	− 8·50	3·65	Mergui.
14	1	1	0	4	1	2	0	1	S 9° E	S 61° W	2·8	1·2	+1·6	33	+15	95	+ 2	·886	+·019	9·5	+1·7	30	+2·7	49·49	50·40	− 0·91	123·02	116·20	+ 6·82	3·90	Tavoy.
4	1	0	6	9		3	0	1	S 35° E	S 2° E	3·3	2·8	+0·5	56	+13	94	+ 1	·856	−·012	10·0	+1·4	27	−0·7	61·60	46·39	+15·21	116·44	102·88	+13·56	5·66	Moulmein.
3	0	1	0	1	12	14	0	0	S 28° W		8·3			82																	Amherst.
0	1	0	0	5	16	8	1	0	S 7° W	S 45° W	4·9	3·7	+1·2	79	+ 5	92	− 1	·906	−·005	9·9	+0·9	26	+0·6	26·24	21·55	+ 4·69	50·90	51·71	− 0·75	4·25	Rangoon.
14	0	0	0	0	9	6	2	0	S 25° W	S 18° W	3·9	3·3	+0·6	46	−19	92	− 1	·954	+·027	8·5	+0·7	27	+0·9	26·21	25·16	+ 1·05	53·58	58·09	− 4·51	3·47	Bassein.
0	0	0	0	0	3	20	8	0	S 52° W	S 43° W	9·8	7·7	+2·1	92	+11	86	0	·935	+·024	9·1	+0·6	25	+1·7	31·26	26·03	+ 5·23	69·23	61·01	+ 8·22	3·45	Diamond Island.
6	0	1	0	15	5	1	0	0	S 26° E	S 31° E	3·7	3·8	−0·1	72	−14	92	+ 1	·906	−·001	9·2	−0·1	26	+1·5	18·19	17·73	+ 0·46	37·36	39·37	− 2·01	1·93	Toungoo.
19	0	0	5	2	4	1	0	0	S 43° E		1·4			27		93		·921		9·1		28	+1·6	62·15	48·09	−14·06	107·33	102·09	+ 5·24	6·60	Kyaukpyu.
7	0	0	0	4	11	8	0	1	S 11° W	S 38° E	4·1	2·8	+1·3	62	+ 7	95	+ 1	·950	−·010	9·8	+0·8	31	+3·5	97·76	53·49	+44·27	147·35	112·57	+34·78	10·69	Akyab.
0	0	0	3	24	3	1	0	0	S 42° E	S 39° E	4·9	9·0	−4·1	92	0	84	0	·881	+·004	6·6	−0·4	11	+1·8	4·68	4·43	+ 0·25	15·50	15·52	− 0·02	1·45	Minbu.
																83	− 2	·833	−·003	7·5	+0·1	14	+5·2	3·16	3·91	− 0·75	10·27	15·19	− 4·92	0·58	Yamethin.
																70	− 5	·827	−·019	6·6	+0·3	6	+0·1	4·78	3·31	+ 1·47	15·35	14·92	+ 0·43	1·60	Mandalay.
2	0	0	1	23	5	0	0	0	S 39° E		4·0			86		78	− 2	·861	−·024	9·2	+0·9	7	+2·7	2·98	2·60	+ 0·38	6·48	13·74	− 7·26	1·57	Monywa.
9	1	1	0	0	8	10	2	0	S 32° W		3·1			49		87	− 2	·711	−·015	9·2	+0·3	17	−0·5	9·25	12·46	− 3·21	20·04	29·52	− 9·48	1·17	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 70° W	0·5	1·4	−0·9			94	+ 1	·931	+·026	9·2	+0·7	17	−3·1	13·33	17·26	− 3·93	23·04	37·73	−14·69	3·55	Bhamo.
31	0	0	0	0	0	0	0	0	Calm		1·5					93	+ 2	·882	−·013	9·1	0	23	+1·6	26·08	19·03	+ 7·05	42·37	40·27	+ 2·10	3·70	Myitkyina.
																															II.—Assam.
24	0	2	3	1	0	0	0	1	N 72° E		0·2			13		92	− 1	·934	+·025	7·5	−0·6	21	−1·0	17·20	21·59	− 4·39	43·67	50·43	− 6·76	4·10	Dibrugarh.
12	3	6	2	1	3	3	0	1	N 63° E	S 11° E	1·4	2·1	−0·7	13	− 3	91	− 1	·953	−·012	8·4	−0·5	12	−7·6	12·89	17·07	− 4·18	41·04	43·04	− 2·00	3·25	Sibsagar.
13	0	7	6	1	2	1	1	0	N 81° E		1·6			33		90	− 1	·957	+·024	5·8	−2·6	11	−6·6	5·48	13·93	− 8·45	24·27	34·40	−10·13	1·59	Tezpur.
3	0	3	18	5	1	0	0	1	S 87° E		1·2			76		86	− 2	·981	+·031	6·0	−2·2	13	−1·5	9·14	10·81	− 1·67	28·05	35·38	− 7·33	1·72	Gauhati.
5	0	9	11	5	0	1	0	0	N 84° E	S 83° E	4·3	3·4	+0·9	66	+37	89	− 2	·973	+·022	8·5	+0·6	13	−2·9	8·56	16·68	− 8·12	55·91	55·39	+ 0·52	1·43	Dhubri.
27	0	2	0	0	0	0	0	2	N	N 84° E	1·6	2·0	−0·4	9	+ 2	85	− 5	·955	+·007	4·8	−3·4	18	−4·6	9·86	19·90	−10·04	39·62	58·18	−18·56	1·65	Silchar.
																86	− 1	·938	−·005	4·3		16	−3·9	11·86	16·97	− 5·11	47·58	52·75	− 5·17	3·50	Srimangal.
																															III.—Bengal.
7	0	0	1	14	8	1	0	0	S 29° E		4·7			72		90		·931		8·4		25	+2·3	44·43	33·98	+10·45	70·53	73·24	− 2·71	5·60	Cox's Bazar.
1	0	0	10	16	3	0	1	0	S 55° E	S 36° E	3·7	5·3	−1·6	79	+ 5	89	+ 1	·927	+·014	8·1	+0·2	18	−0·6	20·86	21·78	− 0·92	45·43	52·50	− 7·07	2·71	Chittagong.
0	0	0	0	24	7	0	0	0	S 35° E		6·3			94		91	+ 1	·952	+·005	6·6	+0·5	24	+1·0	24·75	24·67	+ 0·08	50·75	58·14	− 7·39	4·25	Noakhali.
5	0	0	2	13	6	4	0	1	S 24° E	S 14° E	4·3	3·1	+1·2	62	+19	92	+ 3	·967	+·012	8·3	+0·5	23	+2·5	19·88	15·48	+ 4·40	41·80	41·19	+ 0·61	5·25	Barisal.
2	0	0	8	13	6	1	0	0	S 49° E	S 27° E	4·5	5·7	−1·2	76	+ 5	86	− 4	·945	−·036	8·5	0	18	+0·7	14·34	12·46	+ 1·88	35·90	35·17	+ 0·73	2·53	Narayanganj.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·510	—·055	29·524	29·604	26th	29·340	22nd	82·4	79·3	89·0	+1·6	79·3	+1·1	84·1	+1·3	9·7	93·6	23rd	76·3	27th
	Bogra	75	29·478	—·060	29·504	29·585	26th	29·321	22nd	82·3	80·1	89·6	+0·7	79·0	+0·5	84·3	+0·6	10·6	96·5	4th	75·8	26th
	Dinajpur	123	29·423	—·052	29·499	29·516	3rd	29·285	22nd	82·7	79·8	89·5	+0·1	79·3	+0·7	84·4	+0·4	10·2	95·1	24th	77·0	25th & 31st.
	Jalpaiguri	283	29·202	—·031P	29·539	29·386	26th	29·188	22nd & 23rd.	81·8	79·8	90·6	+2·2	78·4	+1·3	84·5	+1·7	12·2	95·4	24th	76·1	27th & 31st.
	Saugor Island	10	29·504	—·071	29·459	29·654	26th	29·247	23rd	82·2	79·4	86·7	—1·2	79·3	—1·1	83·0	—1·1	7·4	97·0	1st	76·5	29th
	Midnapore	149	29·355	—·080	29·452	29·495	27th	29·153	23rd	81·9	79·3	88·7	—1·3	79·1*	+0·6	84·1*	—0·3	9·6	97·1	1st	76·5	19th
	Calcutta	21	29·489	—·079	29·457	29·630	27th	29·286	23rd	81·9	79·7	88·9	+0·5	79·6	+1·0	84·2	+0·7	9·3	98·2	1st	77·0	27th
	Jessore	30	29·499	—·070	29·476	29·628	26th	29·318	22nd	82·3	79·0	89·0	—0·1	79·1	+0·1	84·1	0	9·9	96·7	1st	76·3	28th
	Burdwan	99	29·404	—·082	29·450	29·532	26th	29·233	22nd	81·3	79·1	90·0	—0·2	78·9	—0·4	84·4	—0·3	11·1	97·8	1st	77·4	25th
	Berhampore	67	29·462	—·059	29·478	29·585	26th	29·315	22nd	82·3	79·8	90·4	+0·9	79·6	+0·8	85·0	+0·9	10·8	96·6	4th	76·6	20th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·456	—·082	29·452	29·600	26th	29·217	23rd	80·4	78·4	88·3	—0·7	77·7	—0·7	83·0	—0·7	10·6	100·0	1st	74·1	28th
	Hukitala (False Point)	29	29·517	—·058	29·487	29·619	26th	29·256	23rd													
	Cuttack	80	29·473	—·047	29·494	29·599	27th	29·241	23rd	80·4	78·2	87·0	—2·9	78·0	—0·6	82·5	—1·7	9·0	101·1	1st	75·1	23rd
	Puri	24	29·546	—·040	29·511	29·664	27th	29·326	23rd	81·0	78·6	84·8	—2·9	79·2	—0·6	82·0	—1·7	5·6	93·1	2nd	75·0	31st
	Angul	955	29·087†	—·068	29·486†	29·202	2nd	28·845	23rd	79·6	76·6	84·7	—3·4	77·2	+0·1	81·0	—1·7	7·5	99·8	1st	74·8	16th
	Sambalpur	486	29·073	—·044	29·508	29·182	27th	28·886	23rd	78·7	76·6	84·8	—2·7	75·8	—1·6?	80·3	—2·1P	9·0	100·5	1st	71·7	31st
7	Chaibasa	*733*	28·766	—·072	29·444	28·906	26th	28·596	23rd	80·1	77·0	87·7	—2·9	77·3	+0·2	82·5	—1·3	10·4	99·2	1st	72·4	11th
	Ranchi	2,128	27·413	—·057	29·439	27·546	27th	27·280	23rd	76·4	74·3	83·4	—1·0	73·8	+0·5	78·6	—0·3	9·6	93·7	2nd	72·0	25th
	Purulia	*816*	28·692	—·064	29·449	28·834	27th	28·554	23rd	80·8	77·5	90·8	+0·7	77·7	+0·8	84·3	+0·7	13·1	100·3	2nd	75·5	17th & 31st.
	Daltonganj	*730*	28·768	—·047	29·464	28·896	3rd	28·687	23rd	79·9	77·0	89·4	—1·9	77·3	—0·8	83·3	—1·3	12·1	101·2	3rd	75·2	31st
3	Purnea	124	29·413	—·052	29·490	29·515	3rd	29·283	22nd	83·2	80·4	90·6	+0·8	79·3	+0·5	85·0	+0·7	11·3	95·1	24th	76·9	31st
	Monghyr	155	29·356		29·485	29·455	27th	29·247	22nd	84·0	80·3	92·5		80·2		86·3		12·3	99·2	2nd	77·9	6th & 30th.
	Darbhanga	165	29·366	—·048	29·484	29·467	27th	29·251	22nd	83·2	79·6	92·5	+3·0	79·7	+0·1	86·1	+1·5	12·8	97·0	2nd	73·4	25th
	Pusa	188	29·332		29·473	29·437	3rd & 27th.	29·215	22nd	83·5	80·9	93·4		79·6		86·5		13·8	100·1	2nd	75·5	28th
	Patna	183	29·337	—·042	29·473	29·449	27th	29·230	23rd	83·9	80·4	90·3	—0·3	80·1	+0·3	85·2	0	10·2	98·0	2nd	76·4	3rd
	Buxar	239	29·268	—·014	29·461	29·374	27th	29·178	22nd	81·5	79·6	91·3	+0·3	79·0	0	85·1	+0·1	12·3	98·4	1st	75·6	19th
	Gaya	372	29·147	—·040	29·471	29·277	27th	29·041	23rd	82·4	79·4	90·8	—1·0	79·1	+0·3	85·0	—0·3	11·7	102·7	1st	76·4	28th
	Naya Dumka	489	29·032	—·053	29·468	29·139	26th	28·890	22nd	82·8	79·5	90·5	+1·3	78·8	+1·1	84·6	+1·2	11·7	97·8	1st	75·6	27th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·273	—·028	29·486	29·873	3rd	29·181	23rd	82·3	80·0	90·5	—0·5	79·1	—0·1	84·8	—0·3	11·4	97·1	2nd	76·1	20th
	Benares	267	29·242	—·039	29·461	29·356	3rd	29·166	11th & 22nd.	82·0	79·3	89·4	—2·6	78·8	—0·9	84·1	—1·7	10·6	104·1	1st	76·5	30th
	Allahabad	309	29·228	—·009	29·491	29·326	31st	29·137	22nd	82·2	78·7	90·0	—2·5	79·6	—0·1	84·8	—1·3	10·4	105·5	2nd	75·8	30th
	Cawnpore	416	29·109	—·012	29·478	29·199	1st	29·014	22nd	82·4	79·8	90·4	—2·9	79·9	—0·1	85·1	—1·5	10·5	104·4	2nd	75·5	30th

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

* Mean of 28 days.
† „ „ 30 „

B—*continued.*

stations in India, etc., in July, 1920—*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 May to 31st July 1920.	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.*
22	0	1	4	4	0	0	0	0	S 74° E	S 49° E	1·8	3·0	−1·2	23	−45	86	− 4	·959	−·003	8·8	+0·7	19	− 0·8	9·06	16·35	− 7·29	29·74	48·75	−19·01	2·09	Mymensingh.
8	0	0	18	1	2	2	0	0	S 77° E	S 48° E	2·0	3·1	−1·1	56	− 9	90	+ 2	·997	+·031	8·4	+1·1	15	− 1·6	10·79	13·05	− 2·26	29·23	35·89	− 6·66	3·51	Bogra.
3	0	2	19	4	0	1	1	1	S 86° E	S 86° E	4·0	2·9	+1·1	69	+12	88	− 2	·983	+·016	5·7	−2·6	13	− 4·1	8·18	15·27	− 7·09	20·29	37·21	−16·92	2·90	Dinajpur.
17	1	6	3	2	1	0	0	1	N 65° E	N 88° E	1·4			27	−30	91	0	·994	+·046	5·1	−0·8	23	+ 1·4	24·44	30·86	− 6·42	53·35	65·24	−11·89	6·00	Jalpaiguri.
0	0	2	2	2	5	10	9	1	S 46° W	S 27° W	11·8	7·2	+4·6	53	− 1	88	+ 1	·965	−·030	9·4	+0·7	21	+ 5·1	12·00	15·37	− 3·37	19·30	30·99	−11·69	2·45	Saugor Island.
7	2	3	3	4	5	4	1	2	S 31° E		2·5			19		89	+ 3	·962	+·018	9·6	+4·2?	22	+ 5·8	20·22	12·82	+ 7·40	29·71	28·00	+ 1·71	3·50	Midnapore.
1	0	2	6	6	3	11	1	1	S 10° E	S 3° W	3·9	3·7	+0·2	43	− 7	90	+ 2	·982	+·010	9·5	+1·0	18	− 0·2	14·47	12·74	+ 1·73	22·21	30·34	− 8·13	5·41	Calcutta.
17	0	0	5	8	0	1	0	0	S 57° E	S 21° E	1·9	3·0	−1·1	40	−10	86	− 3	·951	−·049	8·7	+0·4	17	− 0·6	11·66	12·33	− 0·67	23·78	33·50	− 9·72	2·98	Jessore.
15	1	5	3	2	1	2	1	1	N 73° E	S 3° E	1·6	3·1	−1·5	17	−22	90	+ 3	·962	+·005	9·6	+1·3	21	+ 5·1	8·13	12·87	− 4·74	18·18	29·06	−10·88	0·91	Burdwan.
8	1	1	13	3	4	1	0	0	S 72° E	S 25° E	3·5	3·3	+0·2	53	+ 1	89	− 2	·985	−·002	8·8	−0·1	17	+ 1·2	11·38	11·01	+ 0·37	23·36	26·39	− 3·03	2·73	Berhampore.
																															IV.—Bihar and Orissa.
4	2	1	0	1	8	15	0	0	S 29° W	S 37° W	3·4	4·2	−0·9	62	+ 8	92	+ 6	·943	−·002	8·5	+2·4	17	+ 2·7	16·98	11·20	+ 5·78	25·31	25·70	− 0·39	6·18	Balasore.
1	0	0	0	0	1	20	6	3	S 59° W		13·2			82	+14					9·3	+0·9	17	+ 2·8	15·63	12·14	+ 3·49	26·18	25·05	+ 1·13	3·46	Hukitala (False Point).
4	0	0	0	0	0	14	13	0	S 67° W	S 60° W	2·8	2·4	+0·4	82	+30	91	+ 9	·931	+·026	9·1	+1·7	21	+ 5·6	23·93	11·69	+12·24	32·43	25·57	+ 6·86	4·14	Cuttack.
2	2	1	0	0	2	10	12	2	S 76° W		10·5			65		89	+ 3	·945	−·027	8·5	+1·5	18	+ 6·0	17·32	9·93	+ 7·39	26·71	19·89	+ 6·82	5·70	Puri.
5	0	0	0	0	1	4	10	11	N 79° W		6·9			68		87	+ 2	·879	−·013	9·3	+3·1	23	+ 8·8	18·66	10·81	+ 7·85	26·62	20·67	+ 5·95	2·77	Angul.
0	0	1	0	0	1	25	3	1	S 50° W	S 34° W	5·3	3·5	+1·8	89	+29	91	+ 6	·889	+·003	9·4	+1·2	23	+ 3·2	37·36	20·33	+17·03	43·86	31·58	+12·28	5·62	Sambalpur.
12	1	3	1	0	0	18	1	0	S 49° W	S 66° W	2·3	2·0	+0·3	30	−14	87	+ 6	·889	+·030	8·3	+1·0	24	+ 8·5	32·19	12·04	+20·15	43·59	23·57	+20·02	6·21	Chaibassa.
0	3	3	4	3	2	2	7	7	N 48° W	S 63° W	4·4	5·8	−1·4	27	− 5	91	+ 3	·825	+·030	9·3	+1·0	23	+ 5·3	31·61	15·07	+16·54	36·66	26·74	+ 9·92	4·82	Ranchi.
11	1	4	2	3	1	7	2	0	S		1·0			13		86	− 2	·896	−·016	7·8	+1·1	25	+ 9·0	22·94	12·44	+10·50	26·16	22·87	+ 3·29	5·66	Purulia.
7	1	2	1	0	3	7	10	0	S 69° W		4·2			45		87	+ 4	·889	−·007	7·5	+1·7	22	+ 7·5	48·02	10·48	+37·54	50·58	17·27	+33·31	11·45	Daltonganj.
0	1	4	23	3	0	0	0	0	N 87° E	S 81° E	3·1	2·6	+0·5	92	+41	88	− 2	1·001	+·018	6·3	−0·8	18	+ 1·4	5·46	13·97	− 8·51	13·16	29·51	−16·35	0·60	Purnea.
7	0	1	11	10	0	0	2	0	S 71° E		3·1			58		85		·985		7·1		13	− 1·9	8·39	9·37	− 0·98	15·33	21·60	− 6·27	1·31	Monghyr.
22	0	0	9	0	0	0	0	0	E	S 80° E	4·8	3·5	+1·3	29	−26	85	− 3	·959	−·014	8·5	+1·3	15	+ 1·0	9·89	11·65	− 1·76	14·16	22·95	− 8·79	2·19	Darbhanga.
3	1	3	19	4	0	0	1	0	N 89° E		3·4			64		89		·987		6·7		13	+ 0·1	12·02	10·42	+ 1·60	18·42	22·17	− 3·75	3·50	Pusa.
8	1	0	18	0	0	1	1	2	N 83° E	N 81° E	5·2	3·4	+1·8	49	+ 7	86	0	·989	+·010	8·5	+0·3	15	+ 1·0	12·52	12·06	+ 0·46	15·11	21·74	− 6·63	3·77	Patna.
4	1	3	12	3	0	2	4	2	N 84° E		3·5			29		92	+ 8	·984	+·037	8·1	+0·8	23	+ 9·9	17·57	10·73	+ 6·84	20·68	16·60	+ 4·08	2·65	Buxar.
0	2	7	5	3	4	3	3	4	N 70° E	S 2° E	3·3	2·9	+0·4	13	+ 3	87	+ 4	·963	+·027	8·2	+1·4	26	+11·0	29·68	12·54	+17·14	31·82	20·73	+11·09	5·12	Gaya.
29	0	0	1	1	0	0	0	0	S 66° E		1·1			7		86	− 1	·959	+·031	8·4	+1·4	21	+ 3·1	22·40	13·50	+ 8·90	31·11	27·11	+ 4·00	5·32	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
12	0	0	14	1	1	0	2	0	S 83° E	N 63° E	1·9	1·7	+0·2	43	+11	90	+ 3	·935	+·028	4·4	−2·0	17	+ 2·9	18·61	12·90	+ 5·71	28·23	21·96	+ 6·27	5·90	Gorakhpur.
8	1	2	2	4	1	7	5	3	S 54° W	S 7° E	2·9	3·4	−0·5	27	+17	88	+ 5	·957	+·006	8·9	+1·2	25	+11·2	23·28	11·31	+11·97	24·92	16·90	+ 8·02	3·55	Benares.
6	1	3	5	0	0	4	11	1	N 82° W	S 27° W	4·1	5·3	−1·2	23	+17	86	+ 5	·932	+·001	9·4	+1·4	21	+ 7·1	24·84	11·68	+13·16	26·20	16·58	+ 9·62	8·24	Allahabad.
6	3	3	3	4	3	5	3	1	S 12° E	S 1° E	2·4	3·4	−1·0	10	− 4	89	+ 5	·981	+·047	6·8	+0·7	17	+ 5·0	16·21	10·23	+ 5·98	18·46	13·60	+ 4·86	5·10	Cawnpore.

Table

(2) Abstract of observations taken at 8 hrs. at 212

Number of sub-division.	Station.	Height of barometer 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 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	29·135	−·039	29·458	29·238	3rd	29·075	22nd	83·2	79·4	90·3	−2·4	77·9	−1·5	84·1	−1·9	12·4	105·5	2nd	74·0	30th
	Bahraich	407	29·108	−·035	29·471	29·233	3rd	29·047	12th	82·2	78·9	89·8	−2·3	78·8	−0·2	84·3	−1·3	11·0	97·4	2nd	75·2	6th & 23rd.
10	Jhansi	824	28·707	−·037	29·479	28·814	1st	28·522	22nd	81·0	76·5	90·1	−1·8	78·6	−0·7	84·3	−1·3	11·5	102·7	2nd	75·3	31st
	Agra	556	28·952	−·032	29·460	29·051	1st	28·840	22nd	84·0	79·8	92.2	−1·9	80·0	−0·9	86·1	−1.4	12·2	104·3	3rd	76·0	31st
	Mainpuri	516	28·993	−·030	29·463	29·096	3rd	28·877	22nd	82·7	78·7	91·1	−3·7	79·3	−1·1	85·2	−2·4	11·8	103·3	2nd & 8rd.	75·6	30th & 31st
	Bareilly	568	28·937	−·036	29·460	29·011	1st	28·788	22nd	82·5	79·3	90·0	−2·1	79·1	+0·3	81·6	−0·9	10·9	99·0	8th	75·5	4th
	Roorkee	899	28·621	−·024	29·474	28·715	7th	28·458	22nd	81·6	77·8	89·9	−2·2	78·0	−0·1	83·9	−1·1	11·9	97·2	3rd	73·4	5th
	VI.—Punjab.																					
11	Delhi	718	28·798	−·019	29·470	28·876	3rd	28·669	22nd	83·3	78·1	92·6	−1·8	80·7	−0·2	86·6	−1·0	11·9	104·0	3rd	73·8	12th
	Hissar	725	28·783	−·004	29·456	28·871	7th	28·670	11th	87·4	76·9	100·3	−0·2	82·2	+0·3	91·3	+0·1	18·1	108·9	6th	74·5	13th
	Patiala*	*818*	28·664	−·053	29·432	28·758	31st	28·528	22nd	85·1	79·5†	94·5	−0·1	80·4	+0·9	87·4	+0·4	14·1	102·4	3rd	74·8	13th
	Ambala	892	28·613	−·031	29·457	28·705	7th	28·454	22nd	83·3	78·2	94·6	0	79·6	+0·8	87·1	+0·4	15·0	103·0	12th	74·4	13th
	Ludhiana	812	28·678	−·032	29·443	28·793	7th	28·524	22nd	85·1	77·5	98·1	+0·9	80·9	+0·5	89·5	+0·7	17·2	109·3	12th	74·8	15th
	Lahore	792	28·763	−·038	29·416	28·882	8th	28·605	22nd	89·4	78·9	103·1	+2·6	84·5	+4·3?	93·8	+3·5?	18·6	112·8	12th	76·5	15th
	Sialkot	830	28·642	−·042	29·426	28·769	8th	28·480	22nd	85·6	79·8	97·3	−0·6	80·6	+0·7	89·0	+0·1	16·7	105·5	3rd	70·2	25th
	Rawalpindi	1,674	27·831	−·041	29·405	27·952	7th	27·667	22nd	88·3	77·6	101·6	+4·2	79·7	+3·2	90·6	+3·7	21·9	114·0	4th	71·5	8th
12	Khushab	612	28·848	−·039	29·415	28·994	8th	28·637	22nd	90·0	79·8	104·8	+2·2	82·7	+0·4	93·8	+1·3	22·1	114·2	3rd	73·2	8th & 27th.
	Lyallpur	605	28·842		29·398	28·934	9th	28·684	22nd	90·1	7·7	104·7		84·8		94·7		19·9	113·5	12th	76·8	28th
	Montgomery	558	28·889	−·040	29·396	28·994	27th	28·746	12th & 22nd.	91·3	78·0	104·4	+0·1	85·7	+1·8	95·1	+0·9	18·7	111·8	12th	79·3	28th
	Multan	426	28·596	−·052	29·373	29·095	1st	28·855	12th	91·1	81·5	105·4	+1·1	87·4	+3·1	96·4	+2·1	18·0	110·9	18th	82·4	15th
	VII.—North-West Frontier Province.																					
13	Peshawar	1,113	28·340	−·069	29·390	28·470	8th	28·169	22nd	89·0	78·5	111·0	+8·3	82·7	+4·5	97·4	+6·4	27·3	121·6	5th	74·7	31st
	D. I. Khan	590	28·856	−·049	29·401	28·965	26th	28·694	12th	89·6	80·6	104·3	+1·2	84·7	+2·3	94·5	+1·7	19·6	112·0	13th	76·1	26th & 27th.
	VIII.—Sind.																					
16	Jacobabad	186	29·245	−·035	29·385	29·248	1st	29·125	22nd	91·5	79·8	109·2	+0·8	86·3	+1·7	97·8	+1·3	22·9	115·9	9th & 12th.	77·2	26th
	Hyderabad	96	29·374	−·036	29·421	29·490	1st	29·255	22nd	86·6	78·7	99·2	0	82·5	+1·6	90·8	+0·3	16·7	107·9	9th	79·5	31st
	Karachi	13	29·510	−·030	29·474	29·628	1st	29·390	22nd	84·6	80·1	89·5	+1·3	82·0	+1·6	85·8	+1·5	7·5	92·6	25th	76·2	26th
	IX.—Rajputana.																					
17	Bikaner	*771*	28·737	−·017	29·455	28·866	1st	28·634	22nd	86·7	78·5	101·8	+0·8	81·4	−1·7	91·7	−0·5	20·4	109·8	12th	75·8	28th
	Jodhpur	780	28·765	−·015	29·494	28·907	1st	28·670	22nd	82·5	75·5	93·9	−3·8	78·1	−2·4	86·0	−3·1	15·8	101·3	7th	73·2	28th
18	Jaipur	1,431	28·133	−·019	29·498	28·259	1st	28·038	22nd	80·4	75·3	89·7	−5·0	76·6	−1·9	83·1	−3·5	13·1	100·8	6th	73·2	27th & 30th.
	Ajmer	1,611	27·957	−·024	29·499	28·083	1st	27·866	22nd	77·7	73·7	86·8	−5·0	76·3	−1·7	81·5	−3·3	10·5	96·4	7th	72·4	28th
	Kotah	832	28·712	−·018	29·492	28·840	1st	28·616	22nd	81·9	6·5	89·0	−5·7	78·4	−2·2	83·7	−3·9	10·6	98·2	5th	74·6	25th

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

* Mean of 30 days.
† " " 29 "

B—*continued.*

stations in India, etc., in July, 1920—*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 1920.	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	0	4	0	4	0	2	0	1	S 78° E	S 82° E	1·7	2·8	−1·1	10	−14	85	+ 3	·961	+·023	8·7	+1·6	18	+5·1	16·84	11·39	+5·45	21·48	16·76	+4·70	2·60	Lucknow.
11	2	1	8	4	1	1	0	3	N 88° E	S 68° E	2·3	2·6	−0·3	29	−11	86	+ 1	·939	−·023	4·1	−1·6	18	+6·3	19·72	10·69	+9·03	31·03	18·25	+12·78	5·65	Bahraich.
6	1	1	0	0	3	11	7	2	S 64° W	S 72° W	4·2	3·2	+1·0	56	+ 9	81	+ 2	·851	−·038	8·0	+3·2	16	+2·7	8·37	11·45	−3·08	10·77	16·28	−5·51	1·60	Jhansi.
7	0	4	4	1	4	10	1	0	S 3° W	S 24° W	3·4	4·0	−0·6	30	−12	83	+ 6	·956	+·045	8·3	+1·8	17	+5·8	10·91	9·10	+1·81	14·86	11·98	+2·88	2·75	Agra.
6	2	1	5	4	1	1	5	6	N 31° W	S 41° E	1·6	1·5	+0·1	7	+ 4	84	+ 6	·926	+·007	9·2	+2·8	17	+7·5	14·97	6·74	+8·23	17·77	9·90	+7·87	3·40	Mainpuri.
23	0	2	3	1	0	0	1	1	N 75° E	S 47° E	0·3	2·4	−2·1	10	−22	87	+ 3	·957	+·023	8·7	+2·1	20	+7·5	16·27	13·47	+2·80	22·23	19·23	+3·00	4·05	Bareilly.
21	0	0	0	9	0	0	0	1	S 45° E	S 38° E	2·1	2·1	0	27	−12	84	+ 4	·898	+·028	6·0	−0·1	14	+2·4	21·84	12·02	+9·82	31·22	17·88	+13·34	5·86	Roorkee.
																															VI.—Punjab.
10	0	1	4	10	0	0	4	2	S 52° E	S 22° E	2·9	3·1	−0·2	27	+ 5	79	+ 5	·895	+·024	6·7	−0·1	7	−2·1	11·29	7·67	+3·72	16·44	11·35	+5·09	4·00	Delhi.
0	2	0	4	8	3	6	8	0	S 14° W	S 16° W	6·4	5·2	+1·2	37	+ 8	69	+ 2	·874	+·019	3·4	−1·1	6	+0·6	3·50	3·95	−0·45	4·79	6·26	−1·47	2·00	Hissar.
2	1	1	3	15	0	2	5	1	S 35° E		4·2*			40		78*	0	·933*	+·023	5·7	+0·7	5	−3·3	5·38	5·99	−0·61	13·20	8·91	+4·29	3·22	Patiala.
8	2	2	6	10	0	1	2	0	S 70° E	S 62° E	3·8	1·1	+2·7	43	+20	79	− 3	·891	−·022	7·7	+1·9	12	+2·4	4·19	7·41	−2·92	10·39	12·11	−1·72	0·91	Ambala.
20	0	0	1	6	2	1	1	0	S 27° E	S 34° E	2·0	1·8	+0·2	27	− 9	71	− 2	·844	−·017	4·0	−1·5	7	−1·2	8·29	7·92	+0·37	11·73	11·18	+0·55	3·44	Ludhiana.
3	0	1	1	9	4	6	5	2	S 12° W	S 42° E	2·6	2·5	+0·1	40	+ 1	63	− 7	·850	−·038	3·1	−0·7	2	−4·0	1·11	5·36	−4·25	1·84	7·84	−6·00	0·87	Lahore.
3	1	1	10	9	3	3	0	1	S 57° E	S 85° E	2·8	2·0	+0·8	53	+ 6	77	+ 6?	·942	+·078	3·5	−0·1	7	−1·3	5·92	7·56	−1·57	10·20	11·14	−0·94	2·03	Sialkot.
8	0	2	8	10	1	1	1	0	S 64° E	S 82° E	2·1	1·8	+0·3	53	+28	62	− 7	·815	+·034	1·9	−2·5	6	−2·9	5·08	7·68	−2·60	6·59	11·05	−4·46	1·75	Rawalpindi.
4	6	7	4	4	3	1	0	2	N 58° E	N 62° E	5·7	5·5	+0·2	40	−14	63	− 1	·884	+·041	1·8	−0·9	4	−0·6	3·45	3·84	−0·39	4·59	6·00	−1·41	1·80	Khushab.
0	0	3	3	6	4	12	1	2	S 7° W		3·6			43		56		·782		2·3		2	−1·9	0·49	3·59	−3·10	2·09	5·49	−3·40	0·34	Lyallpur.
1	1	0	3	4	9	12	1	0	S 11° W	S 15° E	6·9	7·0	−0·1	66	+27	54	− 4	·779	−·030	1·9	−0·6	0	−3·4	0·06	2·33	−2·27	1·59	3·64	−2·05	0·06	Montgomery.
9	2	0	0	1	4	14	0	1	S 40° W	S 89° W	1·9	2·3	−0·4	53	+19	65	+ 2	·939	+·072	1·5	−0·5	0	−2·2	0	2·07	−2·07	3·02	3·00	+0·02	0	Multan.
																															VII.—North-West Frontier Province.
18	11	0	0	0	0	0	0	1	N 3° W	N 9° W	0·9	3·0	−2·1	40	− 2	62	+ 1	·843	+·059	0·6	−2·5	1	−1·1	0·23	1·37	−1·11	0·80	2·61	−1·81	0·26	Peshawar.
11	0	11	0	9	0	0	0	0	N 84° E	N 65° E	2·1	1·8	+0·3	46	+14	67	− 3	·921	−·006	2·3	+0·1	2	−0·8	2·68	2·22	+0·46	6·65	3·27	+3·38	1·45	D. I. Khan.
																															VIII.—Sind.
1	0	4	0	21	1	4	0	0	S 43° E	S 49° E	4·3	4·1	+0·2	69	+ 4	59	− 7	·859	−·067	0·2	−2·3	1	−0·4	0·45	0·97	−0·52	1·83	1·30	+0·53	0·45	Jacobabad.
1	0	0	0	0	4	24	2	0	S 43° W	S 47° W	11·1	12·2	−1·1	92	+11	69	+ 1	·869	+·040	2·8	−2·1	0	−3·2	0	2·99	−2·99	0·87	3·63	−2·76	0	Hyderabad.
0	0	0	0	1	1	16	12	1	S 62° W	S 76° W	12·6	12·6	0	82	− 2	80	− 3	·967	+·026	7·3	+0·1	1	−1·6	0·45	3·11	−2·66	1·28	4·13	−2·85	0·40	Karachi.
																															IX.—Rajputana.
0	0	0	2	1	3	14	9	2	S 55° W	S 29° W	7·7	6·1	+1·6	66	+ 2	68	+ 3	·865	+·012	2·8	−1·0	2	−3·0	5·59	3·13	+2·46	11·58	5·14	+6·44	5·28	Bikaner.
2	0	0	0	0	2	25	2	0	S 45° W		4·6			89		71	+ 1	·790	−·025	7·9	+1·0	5	+0·1	2·64	3·78	−1·14	9·85	5·27	+4·58	0·88	Jodhpur.
4	0	3	1	0	0	13	7	3	S 72° W	S 73° W	3·7	3·9	−0·2	53	+11	81	+ 7	·827	0	8·2	+1·5	14	+3·8	17·78	7·93	+9·85	28·67	10·62	+18·05	5·08	Jaipur.
7	0	0	0	0	0	12	11	1	S 69° W	S 87° W	5·1	5·8	−0·7	69	+ 1	82	+ 3	·777	−·061	4·7	−1·3	11	+2·1	10·60	6·46	+4·14	18·32	9·23	+9·09	2·55	Ajmer.
5	0	0	0	1	0	7	13	5	S 84° W		1·9			69		78	+ 7	·837	+·022	6·4	+0·6	13	+2·8	12·53	9·32	+3·21	17·31	12·35	+4·96	3·21	Kotah.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	29·127	—·008	29·543	29·256	1st	29·038	22nd	80·3	77·2	89·8	—2·9	77·3	—0·7	83·6	—1·8	12·5	100·0	7th	75·0	4 days
	Bhuj	334	29·225	—·032	29·507	29·342	2nd	29·123	22nd	82·7	79·8	90·3	—0·4	78·9	+0·9	84·6	+0·3	11·4	98·9	9th	74·8	10th
	Jamnagar	61	29·534	—·021		29·611	3rd	29·464	8th & 24th.													
	Dwarka	37	29·553	—·027	29·536	29·664	2nd	29·441	23rd	82·7	78·7	86·3	—0·4	80·6	0	83·4	—0·2	5·7	90·3	9th	75·5	29th
	Rajkot	429	29·167	—·031	29·542	29·276	1st & 2nd.	29·066	22rd	80·8	76·8	90·1	—1·0	78·3	+2·2	84·1	+0·6	11·8	98·6	3rd	72·1	30th
	Veraval	*18*	29·616	—·022	29·577	29·721	1st	29·512	23rd	81·6	78·8	83·3	—0·5	80·1	+0·5	81·7	0	3·2	86·6	3rd	77·3	10th
	Bhavnagar Para	55	29·576	—·011	29·577	29·691	1st	29·484	23rd	82·3	77·4	90·2	—3·2P	77·5	—1·1	83·8	—2·1P	12·7	99·6	3rd	74·8	30th
	Surat	39	29·609	—·019	29·591	29·713	1st	29·510	23rd	81·1	78·1	86·3	—1·1	77·7	+0·1	82·0	—0·5	8·6	92·6	3rd & 4th	75·5	31st
	Ahmadabad	163	29·457	—·012	29·568	29·582	1st	29·362	23rd	81·6	77·9	92·0	—0·7	77·4	—1·2	84·7	—0·9	14·6	100·2	1nd	73·1	27th & 28th.
25	Bombay	37	29·680	—·011	29·657	29·770	31st	29·587	23rd	80·4	77·0	84·5	—0·1	78·2	+0·5	81·4	+0·2	6·3	89·3	2nd	75·4	7th
	Ratnagiri	207	29·463	—·003	29·709	29·648	31st	29·470	24th	80·2	76·4	83·8	—0·1	76·0	+0·1	79·9	0	7·8	86·7	1s	74·1	3rd
	Marmagao	*60*	29·746	—·003	29·740	29·822	31st	29·650	24th	79·3	76·9	84·0	+0·3	75·9	—0·2	80·0	+0·1	8·1	86·4	5th	73·3	2nd
	Karwar	44	29·773	—·006	29·752	29·848	31st	29·673	24th	78·9	76·0	82·7	—0·2	75·9	+0·7	79·3	+0·3	6·8	85·5	15th	73·8	2nd
26	*Malegaon*	1,430	28·236	—·015	29·597	28·331	1st	28·140	22nd	79·3	72·7	89·6	+1·8	74·0	+0·6	81·8	+1·2	15·6	100·4	3rd	72·0	7th, 21st & 31st,
	Ahmadnagar	2,154	27·575	—·009	29·629	27·667	31st	27·474	23rd	75·9	70·3	86·1	+0·7	71·0	+0·3	78·6	+0·5	15·1	95·2	2rd	69·5	28th
	Poona	1,846	27·907	+·018P	29·654	28·003	31st	27·803	23rd	74·4	70·9	80·7	—1·8	70·1	—0·8	75·4	—1·3	10·6	90·0	2nd	68·3	4th
	Sholapur	1,590	28·142	—·007	29·652	28·218	31st	28·043	23rd	77·9	70·1	90·2	+0·9	72·5	+0·6	81·3	+0·7	17·7	97·5	1st	66·5	19th
	Bijapur	*1,948*	27·812	—·003	29·676	27·896	31st	27·709	3rd	75·3	70·3	86·1	—0·6	71·0	+0·3	78·5	—0·1	15·1	94·6	1st	69·5	28th
	Belgaum	2,562	27·268	+·015	29·741	27·331	31st	27·167	23rd	70·0	68·8	75·3	—0·3	67·8	+0·9	71·6	+0·3	7·4	82·6	1st	66·7	3rd
	XI.—Central India.																					
20	Neemuch	1,626	27·965	—·031	29·519	28·094	1st	27·882	22nd	77·2	75·3	84·6	—3·4	74·0	—0·4	79·3	—1·9	10·6	94·3	5th	70·8	7th
	Indore	1,823	27·808	—·021	29·559	27·938	1st	27·717	22nd	75·5	72·9	83·2	—1·9	72·6	—0·1	77·8	—1·0	10·6	95·1	4th	70·4	30th
2	Nowgong	754	28·784	—·024	29·428	28·893	1st	28·688	25th	80·1	76·6	87·7	—2·8	78·1	—0·5	82·9	—1·7	9·6	101·5	2nd	75·5	29th
	Satna	1,041	28·493	—·023	29·479	28·604	1st	28·382	25th	79·5	76·2	84·9	—3·5	77·0	—0·[illegible]	80·9	—2·0	7·9	101·8	3rd	73·8	30th
	XII.—Central Provinces.																					
22	Buldana	2,134								74·8	70·9	83·9	—0·1	71·2	+0·4	77·6	+0·1	12·7	91·4	1st	69·1	28th
	Akola	925	28·733	—·004	29·602	28·828	1st	28·622	24th	79·3	73·4	89·5	+0·4	75·4	+1·0	82·5	+0·7	14·1	99·0	3rd	73·3	16th
	Amraoti	1,215	28·427	—·014	29·584	28·509	31st	28·315	24th	77·6	72·7	86·6	—1·1	74·3	+0·6	80·4	—0·3	12·3	99·5	3rd	72·2	25th
23	Khandwa	1,044	28·591	—·010	29·581	28·700	1st	28·492	24th	78·0	74·1	85·2	—2·7	74·0	—1·5	79·6	—2·1	11·2	96·2	4th	71·6	16th
	Hoshangabad	1,006	28·611	—·006	29·563	28·721	1st	28·507	25th	77·6	74·9	84·9	—2·7	74·2	—1·2	79·6	—1·9	10·7	96·9	3rd	72·2	18th
	Saugor	1,807	27·752	—·058P	29·487	27·862	1st	27·640	25th	74·7	72·3	83·3	—2·6	73·1	—1·0	78·2	—1·8	10·2	95·0	3rd	71·0	6th
	Jubbulpore	1,327	28·233	—·037	29·496	28·336	1st	28·108	24th	77·1	73·5	83·6	—2·9	75·3	+0·5	79·5	—1·2	8·3	97·3	2rd	72·9	25th
	Seoni	2,033	27·592	—·014	29·538	27·683	1st	27·439	24th	75·9	71·5	81·9	—2·4	72·7	+0·2	77·3	—1·1	9·2	94·4	2nd	71·1	14th & 15th.
	Nagpur	1,017	28·622	+·006P	29·581	28·709	28th	28·477	24th	78·9	73·4	86·1	—1·9	75·6	+0·4	80·9	—0·7	10·5	99·7	3rd	73·1	25th
24	Pendra	2,040	27·555	—·012	29·506	27·653	1st	27·410	21th	75·5	72·2	81·7	—2·8	73·2	+0·1	77·4	—1·3	8·5	95·7	2nd	70·2	30th

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

B—*continued.*

stations in India, etc., in July, 1920—*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 1920.	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.
1	0	0	0	0	4	22	2	2	S 47° W	S 61° W	8·2	11·2	−3·0	86	+21	87	+ 6	·893	+·029	9·1	+0·9	14	+3·6	5·36	9·43	− 4·07	17·29	11·69	+ 5·60	0·83	Deesa.
0	1	0	0	0	2	16	11	1	S 63° W	S 78° W	10·5	13·3	−2·8	82	+ 4	87	+ 6	·972	+·075	8·2	+0·9	4	−2·4	2·78	6·92	− 4·14	7·51	8·82	− 1·31	1·24	Bhuj.
																				5·5	+0·5	9	+1·2	10·39	8·43	+ 1·96	33·35	10·39	+22·96	4·73	Jamnagar.
0	0	0	0	0	8	14	9	0	S 46° W		15·5			86		83	0	·927	−·025	7·0	−0·8	4	−2·1	3·40	7·10	− 3·70	8·03	9·59	− 1·56	2·00	Dwarka.
1	0	0	0	0	8	22	0	0	S 33° W	S 76° W	11·8	10·4	+1·4	89	+ 8	82	− 1	·861	−·015	8·0	+0·2	6	−5·0	6·03	11·22	− 5·19	19·28	15·75	+ 3·53	3·07	Rajkot.
0	0	0	0	0	0	16	15	0	S 67° W	S 75° W	14·3*	9·8	+4·5	92	+ 9	88	0	·947	+·005	8·9	+0·8	8	−1·5	4·06	7·16	− 3·10	16·89	11·47	+ 5·42	1·16	Veraval.
0	0	0	0	0	0	25	6	0	S 53° W	S 48° W	5·8	10·7	−4·9	95	+18	79	+ 1	·871	−·015	7·6	−0·1	12	+2·7	11·01	7·16	+ 3·85	22·07	11·84	+10·23	4·52	Bhavnagar Parm.
1	0	0	0	2	9	14	5	0	S 34° W	S 55° W	6·8	9·5	−2·7	79	+ 2	87	+ 2	·923	+·004	9·5	+1·4	25	+9·3	11·37	17·09	− 5·72	21·00	25·79	− 4·79	2·79	Surat.
13	0	0	0	0	0	15	3	0	S 52° W	S 55° W	3·6	4·8	−1·2	56	−15	84	+ 3	·904	+·021	6·9	−1·6	13	+0·6	12·42	11·82	+ 0·54	23·05	16·59	+ 6·46	3·50	Ahmadabad.
0	0	0	0	0	1	16	13	1	S 65° W	S 70° W	9·4	14·2	−4·8	89	+15	85	− 1	·879	−·037	9·0	+0·1	24	+2·4	22·00	24·99	− 2·99	30·16	44·41	−14·25	7·18	Bombay.
0	0	0	0	2	1	22	5	1	S 49° W	S 65° W	12·2	8·5	+3·7	86	+18	83	− 4	·855	−·031	8·8	+0·2	29	+3·4	19·30	34·19	−14·89	36·14	64·27	−28·13	2·68	Ratnagiri.
1	0	1	0	0	0	1	27	1	N 88° W	N 63° W	8·8	9·6	−0·8	92	+12	90	0	·911	−·002	9·4	+1·2	28	+2·1	27·20	32·14	− 4·94	51·65	63·95	−12·30	4·11	Marmagao.
7	0	0	0	0	8	16	0	0	S 30° W	S 75° W	4·9	4·2	+0·7	72	+ 5	87	+ 1	·858	+·014	8·5	+0·5	30	+2·8	25·17	39·02	−13·85	55·19	79·27	−24·08	3·30	Karwar.
0	0	0	0	0	1	25	5	0	S 50° W	S 75° W	9·5	10·6	−1·1	99	+13	73	− 3	·724	−·027	8·7	+2·0	3	−5·1	1·26	5·07	− 3·81	4·08	10·42	− 6·34	0·44	Malegaon.
0	0	0	0	0	0	16	13	2	S 70° W	S 74° W	9·4	15·1	−5·7	92	+17	75	− 5	·662	−·040	4·6	−2·6	1	−5·7	0·55	3·83	− 3·28	2·44	9·75	− 7·31	0·10	Ahmadnagar.
1	0	0	0	0	0	6	22	2	S 85° W	S 76° W	10·2	12·3	−2·1	92	+ 6	84	+ 2	·710	+·002	9·3	+0·7	13	+0·4	6·19	7·36	− 1·17	10·54	13·45	− 2·91	1·90	Poona.
0	0	0	0	0	0	16	12	3	S 70° W	S 69° W	14·5	10·5	+4·0	86	+ 2	67	− 7	·637	−·056	8·9	+0·8	1	−6·9	0·56	4·42	− 3·86	3·42	10·11	− 6·69	0·52	Sholapur.
0	0	0	0	0	0	7	23	1	S 81° W	S 74° W	8·3	7·4	+0·9	96	+11	77	− 3	·678	−·016	7·7	0	3	−1·6	0·95	2·40	− 1·45	4·96	6·79	− 1·83	0·35	Bijapur.
1	0	0	0	0	0	13	17	0	S 71° W	S 77° W	6·8	19·3	−12·5	89	+ 2	94	+ 1	·688	+·003	9·9	+0·6	29	+6·8	17·18	17·08	+ 0·10	25·78	27·71	− 1·93	1·92	Belgaum.
																															XI.—Central India.
2	1	0	0	0	0	0	28	0	N 88° W	S 71° W	8·6	8·9	−0·3	92	+12	92	+ 9	·854	+·049	8·0	+0·9	10	−0·4	16·35	8·72	+ 7·63	26·38	13·17	+13·21	4·10	Neemuch.
0	0	0	0	0	0	3	21	7	N 84° W	S 81° W	6·7	4·9	+1·8	92	+17	88	+ 2	·776	−·004	9·7	+0·8	20	+7·4	20·03	9·76	+10·27	25·09	15·79	+ 9·30	4·90	Indore.
6	0	1	1	1	0	6	12	4	S 85° W	S 84° W	3·2	3·1	+0·1	56	− 2	85	+ 4	·864	−·019	9·4	+1·4	20	+6·1	11·42	13·49	− 2·07	13·58	20·07	− 6·49	2·36	Nowgong.
4	1	0	2	1	5	10	7	1	S 47° W	S 74° W	4·4	6·7	−2·3	53	+ 8	87	+ 5	·874	+·013	8·4	+0·4	21	+5·9	22·42	13·87	+ 8·55	23·87	19·92	+ 3·95	3·82	Sutna.
																															XII.—Central Provinces.
0	0	0	0	0	0	11	17	3	S 77° W		7·5	6·8	+0·7	90		82		·705		8·0		8	−5·5	4·86	8·98	− 4·12	16·23	16·18	+ 0·05	1·03	Buldana.
1	0	0	0	0	0	8	19	3	S 83° W	N 88° W	7·5	6·6	+0·9	89	+ 7	75	− 4	·742	−·043	8·1	−0·2	5	−7·1	2·97	9·66	− 6·69	6·16	15·29	− 9·13	0·91	Akola.
0	0	1	0	0	0	5	16	9	N 82° W	S 88° W	7·5	6·6	+0·9	82	− 1	79	− 5	·741	−·049	9·1	+1·3	14	+1·8	7·23	9·18	− 1·95	8·56	16·27	− 7·71	1·55	Amraoti.
0	0	0	0	0	0	6	23	2	S 84° W	W	7·6	6·9	+0·7	96	+10	83	+ 3	·792	+·007	9·1	+1·6	12	+1·1	8·34	8·88	− 0·54	16·57	14·42	+ 2·15	2·30	Khandwa.
2	0	0	0	0	0	23	1	5	S 58° W	S 54° W	3·7	3·5	+0·2	79	+ 4	88	+ 1	832	−·011	9·4	+1·1	18	+3·1	11·23	15·65	− 4·42	17·63	21·84	− 4·21	2·08	Hoshangabad.
0	0	0	0	0	0	2	22	7	N 83° W	S 80° W	6·9	4·7	+2·2	92	+21	89	+ 4	·769	−·027	8·5	+1·0	19	+3·6	17·96	14·01	+ 3·35	26·28	21·11	+ 5·17	4·23	Saugor.
0	0	0	0	2	3	9	13	4	S 69° W	S 74° W	3·5	3·4	+0·1	72	+ 7	84	− 2	·777	−·048	9·0	+0·9	16	−1·3	12·80	18·10	− 5·30	16·69	26·06	− 9·37	2·30	Jubbulpore.
0	2	0	0	0	1	5	17	6	N 86° W	S 76° W	6·4	4·5	+1·9	82	+17	80	− 6	·712	−·068	8·7	+1·6	17	−1·1	13·66	15·66	− 2·00	18·31	25·16	− 6·85	4·59	Seoni.
0	1	0	0	0	0	5	17	8	N 83° W	S 76° W	6·5	6·4	+0·1	86	+18	77	− 6	·749	−·068	7·4	−0·8	14	−2·5	12·27	14·24	− 1·97	17·77	23·77	− 6·00	4·84	Nagpur.
15	2	0	1	0	1	2	2	8	N 57° W		5·1			30		85	0	·746	−·037	4·3	−2·9	22	+5·6	12·74	13·91	− 1·17	17·49	22·25	− 4·76	2·03	Pendra.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

Number of sub-division.	Station.	Height of barometer 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
	XII.—Central Provinces *—concld.*																					
	Raipur	970	28·615	−·031	29·527	28·702	27th	28·386	24th	78·3	74·5	84·7	−2·1	75·5	+0·7	80·1	−0·7	9·2	101·5	2nd	72·6	25th
	Chanda	*634*	29·013	−·019	29·590	29·099	28th	28·889	24th	79·9	74·5	88·4	−0·2	76·3	+0·6	82·4	+0·2	12·1	101·7	2nd	73·2	15th
	Jagdalpur	1,813	27·865		29·589	27·948	27th	27·727	23rd	76·4	72·2	82·6		72·2		77·4		10·4	96·2	3rd	69·9	24th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·806	−·011	29·631	27·895	1st & 31st	27·705	22nd	75·2	70·5	87·0	+0·4	71·5	+1·0	79·3	+0·7	15·5	97·7	3rd	69·7	19th
	Nizamabad	1,248	28·447		29·629	28·536	28th	28·332	24th	77·9	72·5	90·0	+1·5	74·2	+0·4	82·1	+0·9	15·8	101·1	2nd	71·3	24th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·238	−·004	29·674	28·322	31st	28·135	23rd	75·6	71·0	91·2	+2·0	70·7	−1·1	80·9	+0·5	20·5	99·0	2nd	63·0	11th
	Raichur	*1,311*	28·451	+·010	29·693	28·524	31st	28·343	24th	79·0	72·4	91·8	+1·8	73·6	+0·7	82·7	+1·3	18·2	98·4	1st	71·3	8th
	Hyderabad (Deccan)	1,738	28·021	+·012	29·662	28·089	18th & 28th.	27·894	23rd	76·2	71·8	88·7	+1·2	73·6	+0·3	81·1	+0·7	15·1	96·6	1st	71·4	7th
	Hanamkonda	877	28·819	+·006	29·634	28·895	30th	28·682	23rd	80·9	72·8	90·8	+2·0	77·1	+1·1	84·0	+1·5	13·7	101·9	2nd	72·8	4th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·420	+·005	29·731	27·479	31st	27·307	23rd	71·7	68·1	81·9	−0·1	68·8	+0·3	75·4	+0·1	13·1	88·2	2nd	67·3	11th
	Hassan	3,149	26·748	+·011	29·766	26·815	31st	26·641	23rd	68·9	66·7	75·0	−2·3	65·7	+0·5	70·4	−0·9	9·3	79·8	4th	64·1	2nd
	Bangalore	3,021	26·869	+·009	29·761	26·929	31st	26·765	23rd	70·1	66·4	83·1	+1·0	66·3	+0·4	74·7	+0·7	16·8	87·3	29th	63·7	2nd
	Mysore	2,518	27·357	−·001	29·771	27·415	31st	27·257	23rd	72·7	68·3	80·8	−1·5	67·0	0	73·9	−0·7	13·8	84·9	4th	64·4	11th
	XV.—Madras.																					
30	Mangalore	72	29·803	+·004	29·805	29·858	18th	29·713	22nd & 24th.	78·9	76·1	84·0	+0·3	74·6	+1·1	79·3	+0·7	9·4	87·1	27th	71·5	3rd
	Calicut	27	29·876	+·020	29·832	29·956	31st	29·783	23rd	76·1	75·5	80·2	−1·9	74·0	+0·1	77·1	−0·9	6·2	83·7	23rd	70·3	11th
	Cochin	9	29·915	+·021	29·852	29·988	10th	29·825	23rd	78·8	75·6	83·6	−0·2	74·6	+0·6	79·1	+0·2	9·0	86·7	6th	71·1	26th
	Trivandrum	198	29·727	+·033	29·858	29·811	10th	29·631	23rd	76·4	74·3	81·3	−0·6	73·7	−1·2	77·5	−0·9	7·6	83·6	23rd	69·9	26th
31	Pamban	37	29·802	+·008	29·767	29·866	27th	29·709	22nd	82·6	74·2	90·7	+1·2	79·3	0	85·0	+0·6	11·4	91·5	29th	78·3	25th
	Madura	447	29·397	+·024	29·773	29·447	27th	29·233	23rd	84·4	73·8	95·7	−1·2	78·6	+2·2	87·1	+0·5	17·1	99·9	20th	71·8	2nd
	Pudukkottai	318	29·518	+·018	29·765	29·565	31st	29·444	22nd	84·1	73·8	97·8	+2·0	78·0	+1·0	87·9	+1·5	19·8	101·9	20th & 23rd.	74·6	17th
	Negapatam	31	29·790	+·011	29·750	29·846	31st	29·698	23rd	84·4	77·0	97·2	+1·3	79·9	+1·5	88·6	+1·4	17·3	99·9	20th	77·2	11th & 18th.
	Trichinopoly	255	29·570	+·007	29·757	29·625	27th	29·467	23rd	84·4	73·7	97·7	+0·3	78·9	+1·0	88·3	+0·7	18·8	101·6	20th	77·1	17th
	Coimbatore	1,341	28·511	+·020	29·782	28·561	10th	28·404	23rd	76·7	71·3	85·2	−2·5	71·4	+0·6	78·3	−0·9	13·8	88·9	7th & 29th	69·4	9th
	Salem	913	28·922	+·019	29·768	28·981	31st	28·808	23rd	78·6	72·4	94·5	+1·4	74·2	+1·0	84·3	+1·2	20·3	98·1	7th	72·0	30th
	Cuddalore	37	29·766	+·008	29·733	29·833	31st	29·661	23rd	84·2	75·8	97·5	+1·7	79·1	+1·1	88·3	+1·4	18·4	101·5	2nd	76·0	29th
	Vellore	707	29·082	+·004	29·719	29·143	18th & 31st	28·971	23rd	82·8	74·3	96·2	+2·1	78·6	+1·6	87·4	+1·9	17·6	102·2	28th	73·0	28th
	Madras	22	29·759	+·004	29·712	29·822	31st	29·665	23rd	85·4	76·2	99·7	+3·9	80·9	+2·1	90·3	+3·0	18·8	103·3	20th	76·4	12th
32	Cuddapah	428	29·350	+·003	29·710	29·423	31st	29·227	23rd	85·0	74·1	97·5	+1·7	79·4	+1·5	88·5	+1·6	18·1	100·9	29th	76·0	26th

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

B—*continued.*

stations in India, etc., in July, 1920—*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.	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 1920.	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.*
12	0	0	1	0	3	6	7	1	S 59° W	S 49° W	6·4	8·1	−1·7	43	−22	83	− 3	·804	−·036	9·9	+1·9	17	+1·5	16·44	14·68	+1·76	19·88	23·63	− 3·75	7·97	Raipur.
0	0	0	0	1	3	17	8	2	S 68° W	S 69° W	6·5	4·4	+2·1	72	− 6	79	0	·794	−·015	8·4	+0·6	14	−2·6	14·41	16·60	−2·19	18·35	24·54	− 6·19	2·23	Chanda.
2	0	0	0	0	9	8	12	0	S 40° W		5·4			76		82		·737		2·9		18	+0·7	10·51	14·84	−4·33	17·53	26·36	− 8·83	2·00	Jagdalpur.
																															XIII.—Hyderabad.
0	0	0	0	0	0	15	15	1	S 71° W		12·8			92		79	− 2	·687	−·037	9·3	+1·1	6	−5·6	2·01	6·64	−4·63	2·67	13·08	−10·41	0·52	Aurangabad.
0	0	0	0	0	0	22	9	0	S 58° W		5·6			92		77	− 2	·739	−·020	7·3	+0·4	13	−1·3	9·40	10·58	−1·18	15·04	16·29	− 1·25	4·08	Nizamabad.
																									8·41						Bidar.
0	0	0	0	0	0	8	22	1	S 81° W	S 84° W	14·1	11·5	+2·6	92	+11	79	− 1	·698	−·027	8·0	+0·1	4	−6·4	1·50	6·52	−5·02	5·64	12·31	− 6·67	0·73	Gulbarga.
0	0	0	0	0	0	2	26	3	N 88° W	S 50° W	14·5	10·9	+3·6	96	+27	72	− 3	·710	0	6·8	+0·2	6	−3·5	2·66	5·26	−2·40	5·62	9·61	− 3·99	1·29	Raichur.
0	0	0	0	0	0	0	23	2	N 87° W	N 85° W	9·0	7·2	+1·8	99	+ 7	80	+ 2	·720	+·013	8·4	+0·6	6	−4·3	5·39	6·36	−0·97	11·93	11·88	+ 0·05	1·71	Hyderabad (Deccan).
2	0	0	0	0	0	6	15	5	S 83° W		7·6			82		67	− 6	·696	−·044	5·7	−1·8	6	−7·0	5·89	9·61	−3·72	9·09	16·03	− 6·94	1·63	Hanamkonda.
																															XIV.—Mysore.
0	0	0	0	0	0	11	15	5	S 81° W	S 72° W	8·6	8·5	+0·1	86	− 7	83	0	·641	−·023	9·6	+0·5	4	−4·9	1·22	3·34	−2·14	5·47	9·36	− 3·89	0·20	Chitaldrug.
0	0	0	0	0	0	8	23	0	S 78° W	S 87° W	9·5	3·7	+5·8	97	+ 8	89	+ 3	·629	−·005	9·1	−0·1	19	+6·1	6·10	5·79	+0·31		14·64		0·63	Hassan.
1	0	0	0	0	0	10	20	0	S 75° W	S 66° W	9·6	7·0	+2·6	92	+ 2	82	− 3	·602	−·021	9·9	+1·4	2	−6·5	0·92	4·23	−3·31	6·69	11·33	− 4·64	0·39	Bangalore.
0	0	0	0	0	3	16	12	0	S 59° W	S 67° W	8·9	10·5	−1·6	89	− 1	80	− 2	·639	+·002	6·8	−1·9	7	0	1·93	2·69	−0·76	6·71	11·06	− 4·35	0·50	Mysore.
																															XV.—Madras.
3	1	1	1	0	0	3	19	3	N 88° W	N 76° W	6·9	2·3	+4·6	69	+29	88	0	·863	+·011	9·1	+0·2	31	+3·5	31·27	38·31	−7·04	79·58	80·58	− 1·00	2·90	Mangalore.
16	3	0	3	2	0	0	4	3	N 26° W	N 11° W	3·2	5·8	−2·6	17	− 5	94	+ 2	·847	+·009	9·7	+0·9	30	+3·2	39·80	31·38	+8·42	92·81	73·21	+19·60	3·85	Calicut.
13	0	0	0	0	1	2	11	4	N 88° W	N 24° W	5·8	4·6	+1·2	49	+17	86	− 2	·845	+·009	7·6	−0·6	27	+2·5	25·05	23·51	+1·54	75·11	63·52	+11·59	2·60	Cochin.
0	2	0	0	0	0	0	8	21	N 53° W	N 18° W	6·2	6·8	−0·4	96	+17	90	+ 3	·820	+·012	9·1	+0·6	16	+2·1	8·86	7·53	+1·33	48·31	29·18	+19·13	1·74	Trivandrum.
1	0	0	0	0	10	19	1	0	S 31° W	S 51° W	11·3	8·8	+2·5	89	+14	78	+ 1	·868	−·008	2·9	−0·5	0	−0·6	0·05	0·37	−0·32	0·17	1·27	− 1·10	0·05	Pamban.
0	1	0	0	0	0	0	15	15	N 65° W	N 59° W	8·2	2·8	+5·4	89	+24	59	− 5	·692	−·040	8·0	+2·2	1	−1·4	0·19	1·85	−1·66	5·40	6·02	− 0·62	0·19	Madura.
4	0	1	1	0	0	3	16	6	N 82° W		4·7			68		59	− 9	·693	−·058	5·8	−2·1	3	−1·7	0·49	3·03	−2·54	6·12*	6·64	− 0·52	0·17	Pudukkottai.
0	0	0	0	0	0	3	27	1	S 87° W	S 77° W	7·6	5·4	+2·2	89	+16	70	+ 4	·828	+·055?	4·3	−0·[illegible]	0	−3·4	0	1·85	−1·85	2·30	4·81	− 2·51	0	Negapatam.
0	0	0	0	0	0	12	19	0	S 73° W	S 86° W	9·5	7·2	+2·3	92	+ 5	59	− 4	·689	−·018	6·4	+0·1	0	−2·2	0·02	1·26	−1·24	3·63	5·93	− 2·30	0·02	Trichinopoly.
2	0	0	0	0	0	16	13	0	S 65° W	S 49° W	7·1	5·3	+1·8	86	+ 7	75	− 8	·696	−·046	4·4	−1·7	5	+0·4	1·25	1·52	−0·27	4·30	5·58	− 1·28	0·39	Coimbatore.
0	0	0	0	0	15	16	0	0	S 23° W	S 25° W	5·6	3·4	+2·2	96	+23	73	− 6	·713	−·061	6·2	−0·4	5	−2·4	3·60	3·81	−0·21	6·14	11·62	− 5·48	1·35	Salem.
1	0	0	0	0	0	28	2	0	S 47° W	S 76° W	6·2	1·8	+4·4	99	+27	66	− 8	·779	−·065	6·0	+0·3	7	+1·5	30·6	3·11	−0·05	3·30	5·25	−1·95	1·02	Cuddalore.
3	0	0	0	0	0	0	9	19	N 59° W		4·0			84		65	− 2	·730	+·010	5·0	−0·8	2	−5·1	1·70	4·90	−3·20	4·69	9·67	− 4·98	0·93	Vellore.
3	0	0	0	0	0	17	11	0	S 62° W	S 72° W	4·5†	5·8	−1·3	82	− 2	64	− 5	·777	−·025	6·7	−0·4	7	0	2·07	4·02	−1·95	3·76	6·80	− 3·04	0·39	Madras.
1	2	0	0	0	0	7	16	5	N 89° W	S 83° W				79	0	58	− 9	·700	−·055	7·6	−0·1	1	−5·7	0·41	3·83	−3·42	4·68	8·44	− 3·76	0·18	Cuddapah.

* Rainfall for May, wanting.
† Mean of 30 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	28·307	+·002	29·703	28·391	31st	28·186	23rd	80·2	70·5	91·3	+0·3	75·1	+0·1	83·2	+0·2	16·2	98·1	1st	73·5	2nd & 11th.
	Kurnool	923	28·341	+·009	29·700	28·926	19th	28·728	24th	79·6	73·7	93·0	+1·2	76·0	+1·2	84·5	+1·2	17·0	98·8	1st	71·8	31st
33	Nellore	66	29·673	—·005	29·678	29·744	31st	29·559	23rd	86·9	75·5	99·3	+2·1	82·6	+2·9	90·9	+2·5	16·7	102·8	1st	77·4	1st
	Masulipatam	15	29·697	—·008	29·647	29·763	27th & 31st.	29·581	23rd	84·3	75·7	96·4	+3·8	79·3	+1·1	87·8	+2·5	17·1	105·3	2nd	73·3	4th
	Cocanada	26	29·657	—·005	29·620	29·742	27th	29·510	23rd	82·9	77·0	93·6	+2·5	80·3	+1·4	86·9	+1·9	13·3	104·7	2nd	75·6	7th
	Waltair (Vizagapatam)	*226*	29·581	—·032	29·557	29·675	26th	29·421	23rd	85·0	76·9	92·8	+5·5P	81·9	+0·6	87·4	+3·1P	10·9	100·2	12th	77·3	26th
	Calingapatam	19	29·580		29·537	29·682	27th	29·411	23rd	82·5	78·3	90·5		79·4		84·9		11·1	98·4	1st	75·6	30th
	Gopalpur	33	29·518	—·037	29·514	29·631	27th	29·330	23rd	80·9	77·9	86·4	—1·0	79·2	+0·2	82·8	—0·4	7·2	100·0	1st	75·2	23rd
	Bay Stations.																					
1	P. V. Fraser	8	29·487		29·450	29·639	26th	29·216	23rd	82·8	80·2											
	Port Blair	58	29·727	—·038	29·716	29·794	31st	29·621	22nd	80·9	77·6	85·3	—0·1	78·1	+0·6	81·7	+0·3	7·2	88·0	10th	73·1	1st
	Table Island	90	29·652	—·053	29·677	29·735	26th	29·504	22nd	81·4	80·8	84·0	—1·2	77·6*	+0·5*	80·8*	—0·3	6·4	85·2	18th & 19th.	73·6	1st
	Kashmir.																					
13	Muzaffarabad		27·133			27·226	7th	26·973	12th	81·8	73·5	97·9		75·3		86·6		22·6	109·2	3rd	68·1	15th
	Srinagar	5,204	24·621	—·052	24·592	24·722	8th	24·481	22nd	76·5	69·6	89·8	+4·8	66·4	+2·4	78·1	+3·6	23·4	94·8	23rd	59·3	29th
	Gulmarg	*8,569*	21·733	—·031	21·701	21·802	1st	21·637	22nd	66·9	59·1	75·5	+6·9	52·6	+2·2	64·1	+4·5	22·9	82·0	23rd	47·1	29th
	Dras	*10,059*	20·705	—·001	20·673	20·797	2nd & 3rd.	20·628	22nd	62·5	53·3	78·5	—0·4	50·2	+2·6	64·3	+1·1	28·3	86·6	22nd	44·0	1st & 2nd
	Leh	*11,503*	19·645	—·002	19·613	19·736	3rd	19·553	28th	60·0	48·9	76·4	—0·8	51·2	+1·1	63·8	+0·1	25·2	80·5	5th	46·4	1st
	Skardu	*7,505*	22·643	—·047	22·613	22·773	2nd	22·535	22nd	73·7	56·8	91·9	+6·4	65·4	+4·5	78·7	+5·5	26·5	99·2	22nd	58·0	29th
	Gilgit	4,890	24·853	—·020	24·826	24·986	2nd	24·698	23rd	85·0	68·9	101·3	+5·4	72·4	+0·6	86·9	+3·0	28·9	106·3	20th & 23rd.	61·7	28th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·130		25·099	25·199	1st & 2nd.	25·037	22nd	83·1	70·4	103·3		77·6		90·5		25·7	110·1	9th	64·8	30th
	Quetta	5,502	24·405	—·025	24·365	24·491	2nd	24·336	14th	75·1	67·2	99.0	+6·2	68·6	+4·0	83·8	+5·1	30·4	103·9	14th	61·1	30th
	Chaman	4,311	25·376	—·062	25·338	25·463	2nd	25·314	15th	86·4	66·0	105·1	+5·1	77·7	+2·9	91·4	+4·0	27·4	110·8	13th	70·1	31st
	Kalat	6,630	23·547		23·509	23·622	2nd	23·480	22nd	71·2	60·8	96·2	+3·0	66·2		81·2		30·0	100·1	14th	59·3	31st
	Dalbandin	2,772	26·748		26·711	26·840	2nd	26·629	21st	86·9	61·9	112·2		79·2		95·7		33·0	118·5	13th	68·8	31st
	Pasni		29·497		29·457	29·623	2nd	29·347	23rd	84·9	80·1	93·5		73·0		83·3		20·5	99·9	23rd	69·7	27th
	Panjgur		26·419		26·377	26·511	2nd	26·251	15th	81·9	71·4	106·4		77·7		92·0		28·7	111·8	13th	71·8	23rd
	Seistan		27·748			27·790	9 days	27·690	6 days	83·5	71·0	102·8							110·8	17th		
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·243	—·024	24·219	24·345	1st	24·141	22nd	78·8	66·5	90·0	+3·5	68·2	+2·2	79·1	+2·9	21·8	99·0	21st	60·9	28th
	Cherat	*4,956*	25·464	—·021	25·432	25·543	7th	25·333	22nd	80·4	70·9	93·1	+4·2	74·5	+3·5	83·8	+3·9	18·6	104·0	12th	64·9	8th
	Drosh (c)	4,500	24·768			24·875	1st	24·625	22nd	78·8	64·1	98·7	+3·0	76·2	+3·7	87·5	+3·3	22·5	108·1	21st	66·0	26th
	Murree	6,181	23·807	—·022	23·775	23·884	1st	23·700	22nd	69·5	65·2	79·4	+2·6	65·7	+3·8	72·6	+3·2	13·7	89·2	3rd	54·4	27th

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

(c) Aneroid.

* Mean of 30 days.

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

B—*continued.*

stations in India, etc., in July, 1920—*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 1920.	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	0	0	0	0	0	8	19	4	S 84° W	S 87° W	9·0	8·7	+0·3	89	−1	61	−5	·626	−·023	8·7	+0·8	3	−0·9	0·47	1·80	−1·33	2·54	5·72	−3·18	0·18	Bellary.
1	0	0	0	0	0	10	15	5	S 82° W	S 87° W	9·9*			82	+10	74	−1	·749	+·008	6·4	−1·4	4	−5·7	1·31	4·98	−3·67	3·14	8·88	−5·74	0·37	Kurnool.
1	0	0	0	0	0	3	22	5	N 87° W	N 78° W	4·9	7·3	−2·4	92	+20	57	−9	·726	−·066	8·6	+0·5	1	−4·7	0·33	2·92	−2·59	3·87	4·71	−0·84	0·16	Nellore.
0	0	0	0	0	0	1	17	13	N 72° W	N 69° W	9·3	6·4	+2·9	92	+1	66	−15	·771	−·125?	9·0	+0·6	8	+1·9	2·85	6·23	−3·38	7·07	11·85	−4·78	0·75	Masulipatam.
1	0	0	0	0	0	4	25	1	S 86° W	S 74° W	4·2	6·1	−1·9	96	+12	76	−4	·851	−·017	9·1	+1·6	6	−4·4	6·25	6·07	+0·18	12·96	11·95	+1·01	1·76	Cocanada.
1	0	0	0	0	0	8	19	3	S 83° W	S 75° W	11·3			89	+9	68	−10	·816	−·035	9·5	+1·1	2	−6·5	0·62	4·40	−3·78	5·37	11·41	−6·04	0·17	Waltair (Vizagapatam).
5	0	0	0	0	0	12	12	2	S 72° W		6·4			74		82		·911		8·1		10	+1·1	3·14	5·98	−2·84	9·64	13·55	−3·91	0·69	Calingapatam.
1	3	1	0	1	5	15	4	1	S 49° W	S 49° W	6·5	9·3	−2·8	59	−6	83	+2	·913	−·014	8·1	+3·0?	9	−1·0	7·52	7·03	+0·49	12·31	14·87	−2·56	2·14	Gopalpur.
																															Bay Stations.
1	1	1	0	1	3	16	8	0	S 54° W					71		99		·994		7·2		8	−2·9	6·23	8·47	−2·24	12·32	17·74	−5·42	2·55	P. V. Fraser.
0	0	0	0	0	2	21	7	1	S 54° W	S 61° W	11·1	8·5	+2·6	89	+8	84	−3	·893	−·028	7·2	−1·0	18	−1·9	11·59	15·75	−4·16	42·45	50·83	−8·38	1·63	Port Blair.
0	0	0	0	0	4	19	7	1	S 54° W		22·4			89		97	+7	1·047	+·097	9·1	+0·2	19	+1·0	24·98	13·88	+11·10	49·45	38·15	+11·30	6·95	Table Island.
																															Kashmir.
23	0	0	1	0	1	5	1	0	S 31° W		1·3			19		68		·730		3·4		13	+1·3	14·94	9·01	+5·93	17·35	15·23	−2·12	3·10	Muzaffarabad.
14	3	1	0	6	3	1	0	3	S 45° E	S 48° E	1·9	2·8	−0·9	10	−12	71	−13	·645	+·015	2·9	−1·6	1	−4·3	0·38	2·53	−2·15	4·07	6·49	−2·42	0·30	Srinagar.
8	4	9	3	5	1	0	1	0	N 63° E		2·7			43		64	−15	·424	−·007	3·4	−1·6	4	−5·1	1·52	4·02	−2·50	4·18	7·49	−3·31	0·71	Gulmarg.
20	2	0	0	1	0	0	5	3	N 62° W		5·9			23		58	−4	·328	−·010	2·7	−1·3	0	−1·5	0	0·66	−0·66	3·51	4·03	−0·52	0	Dras.
	0	0	0	0	2	0	0	0	S	S 85° W	0·8	1·5	−0·7	6	−37	48	−7	·250	−·012	2·3	−2·4	0	−1·2	0	0·47	−0·47	0·28	0·86	−0·58	0	Leh.
11	0	3	3	2	3	7	1	1	S 1° W		6·5			21		35	−15	·286	−·069	2·1	−2·0	0	−1·1	0	0·52	−0·52	0·22	2·00	−1·78	0	Skardu.
30	0	0	0	0	0	2	0	1	S 72° W		0·6			7		44	0	·520	+·092	1·3	−2·6	1	−0·7	0·15	0·55	−0·40	0·99	1·72	−0·73	0·14	Gilgit.
																															Baluchistan.
	2	6	0	0	1	0	2	0	N 23° E		3·9			20		53		·585		0·9		5	+1·0	3·02	2·96	+0·96	4·33	3·22	+1·11	1·13	Fort Sandeman.
	0	0	0	3	1	1	0	0	S 21° E	S 6° W	2·5	2·4	+0·1	13	+6	67	+12	·584	+·064	1·1	0	0	−1·4	0	0·68	−0·68	0·44	1·20	−0·76	0	Quetta.
8	0	0	0	1	12	7	1	2	S 22° W	S 33° W	3·4	6·9	−3·5	59	−1	32	+2	·412	+·042	0·8	+0·2	0	−0·3	0	0·11	−0·11	0·08	0·23	−0·15	0	Chaman.
30	0	0	0	1	0	0	0	0	S 45° E	S 21° W	3·6			3	−39	55	+15	·429	+·048	0·5		0	−1·5	0·09	0·69	−0·60	0·30	1·18	−0·88	0·09	Kalat.
14	0	2	1	1	1	4	6	2	S 77° W		5·0			23		19		·248		2·5		0	−0·4	0	0·09	−0·09	0·24	0·15	+0·09	0	Dalbandin.
13	0	0	2	6	1	2	5	2	S 17° W		4·8			20		80		·959		7·7		0	−0·8	0	0·21	−0·21	0·10	1·67	−1·57	0	Pasni.
15	0	0	0	0	1	3	5	2	S 66° W		5·7			43		60		·653		1·6		0		0			0·12			0	Panjgur.
0	7	0	0	0	0	0	0	24	N 35° W		18·1			96		54		·611		0·5		0		0	0		0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
20	0	0	0	0	0	1	0	0	S 45° W		0·4			3		55	−2	·521	+·018	1·7	−3·6	7	+0·4	3·69	3·49	+0·20	7·65	8·14	−0·49	1·64	Parachinar.
1	0	0	0	0	0	0	0	0	N	S 18° E	1·7	6·6	−4·9	3	−29	65	−3	·646	+·044	1·4	−2·7	2	−3·2	0·79	3·85	−3·06	3·28	6·66	−3·38	0·52	Cherat.
	0	1	0	1	0	0	0	0	E		3·5			5		45	−8	·434	−·086	1·2	−0·5	2	+0·5	0·72	0·55	+0·17	2·85	3·27	−0·42	0·57	Drosh.
4	3	1	1	4	2	0	0	0	S 47° E	S 86° E	3·9	4·5	−0·6	23	+18	81	+5	·578	+·065	4·7	−0·2	8	−4·7	5·31	11·89	−6·58	8·88	18·44	−9·56	1·28	Murree.

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

* Mean of 22 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	22·959	—·010	22·921	23·025	1st	22·847	22nd	63·1	61·8	67·3	—1·8	60·4	+0·3	63·9	—0·7	6·9	71·8	3rd & 4th.	55·8	6th
	Chakrata	7,072	23·224		23·184	23·306	31st	23·116	22nd	64·2	63·2	71·8	+2·0	61·4	+1·2	66·6	+1·6	10·4	77·5	1st	58·6	6th
	Mukteswar	7,592	22·707	—·030	22·666	22·773	7th	22·600	22nd	61·4	60·2	69·2	—1·1	56·0	—2·3	62·6	—1·7	13·2	77·3	3rd	53·8	7th
	Darjiling	7,432	22·826	—·034	22·781	22·907	3rd	22·729	22nd	63·0	61·9	69·7	+3·4	59·3	+1·6	64·5	+2·5	10·4	75·6	15th	56·7	31st
	Kalimpong		25·773		25·727	25·858	3rd	25·659	22nd	70·9	69·8	77·5		68·0		72·8		9·5	82·6	15th	66·1	5th
	Shillong	4,920	24·947	—·039	24·899	25·034	7th	24·831	22nd	69·1	65·7	76·4	+0·7	65·3	+1·0	70·9	+0·9	11·1	79·7	15th	62·7	28th
	Cherrapunji	4,309	25·491	—·029	25·442	25·593	7th	25·346	22nd	68·7	67·1	73·8	+1·6	65·6	+0·3	69·8	+0·9	8·2	81·9	24th	62·3	30th
	Netarhat									70·9	69·8	78·3		67·7		73·0		10·6	87·8	3rd	62·3	17th
	Maymyo	3,546	26·241	—·054	26·186	26·329	7th	26·095	22nd	69·7	67·9	77·2	0	67·0	+1·4	72·1	+0·7	10·2	81·0	13th & 30th.	65·2	10th & 31st.
	Pachmarhi	3,528	26·202	—·026	26·149	26·321	1st	26·115	25th	68·9	67·6	74·3	—2·2	67·6	—0·5	71·0	—1·3	6·7	86·0	2nd	66·1	8 days.
	Mount Abu	3,945	25·798	—·015	25·748	25·912	1st	25·712	22nd	67·8	66·8	72·9	—2·3	66·2	+0·3	69·5	—1·0	6·7	79·0	7th	63·2	31st
	Mercara	3,721	26·167	+·006	26·100	26·228	31st	26·087	23rd	64·1	63·9	67·4	—1·6	61·0	—1·2	64·2	—1·4	6·4	70·9	7th	59·2	2nd
	Ootacamund	*7,327*	23·009	+·019	22·945	23·058	18th	22·918	23rd	56·2	54·6	61·4	—0·3	52·5	+0·3	56·9	0	8·9	65·5	29th	50·2	6th & 11th.
	Kodaikanal	7,688	22·781	+·014	22·716	22·830	18th & 19th.	22·698	23rd	57·2	53·8	64·0	+1·3	52·5	—0·1	58·2	+0·6	11·5	68·1	22nd	50·3	22nd
	Extra India.																					
	Singapore (a)	10	29·829	—·086	29·760	29·870	3rd, 26th & 31st.	29·770	1st & 22nd.	83·7		89·3	+1·4	75·2	+0·7	82·3	+1·1	14·1	92·5	2nd	72·0	7th
	Penang (a)	17	29·799	—·106	29·741	29·850	19th	29·749	30th	82·4		90·8	+1·0	72·1	—1·6	81·3	—0·3	18·5	95·0	28th	70·9	29th
	Trincomalee	99	29·751	+·023	29·778	29·804	31st	29·671	23rd	79·5	74·0	94·2	+3·5	77·5	0	85·9	+1·7	16·8	97·4	3rd	74·7	1st
	Colombo	24	29·901	+·019	29·851	29·944	31st	29·817	23rd	78·9	75·8	84·4	—1·2	77·2	+0·1	80·8	—0·5	7·2	85·3	21st & 24th.	73·8	24th
	Hambantota	64	29·825		29·815	29·873	30th	29·741	23rd	77·8	74·4	90·3		76·8		83·5		13·5	94·1	19th	73·9	2nd
	Minicoy	7	29·937			29·998	27th	29·838	23rd													
	Amini Divi	*13*	29·869	+·006	29·810	29·923	20th	29·775	23rd	82·7	77·6	86·3	+0·8	78·1	+0·8	82·2	+0·8	8·2	88·0	18th & 20th.	73·3	2nd
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,667	24·116	—·220	24·071	24·201	3rd	24·045	21st	67·1	65·7	74·3	—0·3	64·0	+3·0	69·1	+3·9	10·3	81·6	15th	61·8	5th
	Gartok (b)	15,100																				
	Kashgar (b)	4,255	25·320	—·090		25·540	20th	25·240	14th	76·1	68·8	92·5	+0·6	65·7	—2·1	79·1	—0·7	26·8	99·8	3rd	59·3	9th
	Kabul (b)																					
	Meshed	3,104								73·9	63·4	92·6	+1·7	60·8	—2·9	76·7	—0·6	31·8	98·2	16th	53·8	23rd
	Jask	13	29·461	—·055	29·427	29·602	2nd	29·324	23rd	89·2	82·8	97·7	+1·7	83·6	—1·9	90·6	—0·1	14·1	102·4	29th	78·7	17th
	Muscat	20	29·486	—·016	29·454	29·600	2nd	29·391	23rd	90·8	79·8	97·2	+4·0	87·3	—0·2	92·3	+1·9	9·9	105·4	29th	81·2	9th
	Bushire	14	29·470	—·007	29·446	29·553	31st	29·408	23rd	87·8	81·1	92·1	—3·2	85·4	+1·1	88·7	—1·1	6·7	95·7	4th	80·0	2nd
	Ispahan (b)	*5,817*	24·060	—·180		24·170	21st	23·960	9th	77·8	64·8	99·3	+1·5	70·2	+3·8	84·7	+2·7	29·1	105·4	19th	63·2	20th
	Tehran (b)	*4,002*	25·526	—·174		25·700	21st	25·450	11th, 14th & 23rd.	79·1	64·7	94·8	—4·1	71·5	+0·5	83·2	—1·8	23·3	102·6	15th	65·0	21st
	Baghdad	127	29·413	—·028	29·509	29·565	3rd	29·283	30th	83·7	64·0	105·2	—4·2	80·0*	+0·4	92·5*	—1·9	25·2	108·2	14th	75·0	21st & 22nd.
	Aden	94	29·637	+·016	29·662	29·713	5th	29·575	8th & 2nd.	85·3	79·2	92·5	—0·9	83·5	+1·0	88·0	+0·1	9·0	95·0	10th	77·7	28th
	Zanzibar	72	30·135	+·043	30·134	30·178	13th	30·049	28th	74·6	71·1	80·2	—0·3	72·8	0	76·6	—0·1	7·5	82·1	23rd	71·7	27th

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

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

* Mean of 30 days.

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

B—*concluded.*

stations in India, etc., in July, 1920—*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 1920.	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.*
																93	+ 7	·537	+ ·038	9·1	+ 1·1	26	+ 6·7	27·67	16·30	+ 11·37	38·14	25·72	+ 12·42	5·45	Simla.
5	2	3	6	4	0	5	5	1	S 49° E	S 48° W	7·1	4·5	+ 2·6	7	− 4	95	+ 6	·572	+ ·048	9·5	+ 3·6	22	+ 2·0	14·63	19·85	− 5·22	18·46	30·32	− 11·86	2·39	Chakrata.
9	0	0	9	6	1	0	6	0	S 54° E		5·7			27		94	+ 3	·510	+ ·009	8·8	+ 0·6	18	+ 0·2	13·14	12·50	+ 0·64	31·79	20·91	+ 10·88	1·90	Mukteswar.
23	2	3	0	1	0	0	0	2	N 17° E	S 83° E	1·7	2·6	− 0·9	17	− 13	94	− 2	·543	+ ·019	9·8	+ 0·8	28	+ 2·7	29·30	33·66	− 4·36	62·28	66·56	− 4·28	4·08	Darjiling.
																95		·718		8·5		?		?						?	Kalimpong.
25	0	1	3	2	0	0	0	0	S 82° E		1·8			17		84	− 3	·585	− ·013	7·3	− 0·6	15	− 4·5	7·66	15·59	− 7·93	27·56	43·71	− 16·15	1·15	Shillong.
9	1	4	8	5	4	0	0	0	S 75° E		2·8			49		91	− 5	·642	+ ·001	9·7	+ 0·6	29	+ 1·9	50·33	101·77	− 51·44	157·93	239·49	− 81·56	5·65	Cherrapunji.
0	4	2	2	2	1	5	9	6	N 72° W		7·5			42		95		·719		8·6		28		30·95						3·85	Netarhat.
14	0	0	0	0	1	15	1	0	S 45° W		1·5			49		91	+ 4	·658	− ·001	9·0	+ 2·0	16	+ 4·3	9·36	6·02	+ 3·34	21·72	25·64	− 3·92	2·02	Maymyo.
0	0	0	0	0	0	4	20	7	N 86° W	S 85° W	7·8	7·9	− 0·1	92	+ 17	95	+ 5	·654	− ·017	9·4	+ 0·6	26	+ 4·9	21·02	23·91	− 2·89	26·94	33·71	− 6·77	3·20	Pachmarhi.
1	2	0	0	0	1	23	3	1	S 54° W	S 55° W	7·5	8·4	− 0·9	79	+ 11	95	+ 2	·650	+ ·006	9·6	+ 1·0	23	+ 5·8	14·22	22·10	− 7·88	31·68	28·06	+ 3·62	1·90	Mount Abu.
0	0	0	0	0	1	14	14	2	S 69° W	N 84° W	6·8	7·2	− 0·4	86	− 4	98	+ 2	·589	− ·002	9·9	+ 0·3	31	+ 2·0	57·26	42·79	+ 14·47	98·20	74·24	+ 23·96	4·94	Mercara.
0	0	0	0	0	1	8	15	7	S 86° W		7·2			82		91	+ 5	·412	+ ·022	9·7	+ 0·9	15	− 2·2	5·83	9·66	− 3·83	16·25	23·69	− 7·44	1·28	Ootacamund.
1	0	0	0	0	1	0	26	3	N 88° W		11·3			52		81	0	·379	− ·009	7·3	+ 0·3	9	− 2·6	3·23	5·00	− 1·77	9·61	15·03	− 5·42	0·60	Kodaikanal.
																															Extra India.
8	0	0	0	5	1	16	0	1	S 29° W					56						7·2	+ 2·0	9	0	7·61	6·15	+ 1·46	13·59	19·44	− 5·85	1·56	Singapore.
0	2	17	1	10	0	0	0	1	N 69° E					69						5·9	+ 4·5	9	− 0·1	3·19	6·11	− 2·92	22·64	23·15	− 0·51	0·75	Penang.
0	0	0	0	0	0	18	13	0	S 64° W	S 45° W	9·9	11·9	− 2·0	92	− 8	75	− 6	·766	− ·094	7·5	+ 4·42	0	− 2·3	0·07	1·92	− 1·85	3·05	5·61	− 2·56	0·07	Trincomalee.
6	0	0	0	0	0	14	9	2	S 67° W	S 65° W	4·1	6·8	− 2·7	69	− 14	87	+ 4	·851	− ·018	8·6	+ 1·8	9	+ 0·7	2·64	5·16	− 2·52	18·72	24·00	+ 4·72	0·41	Colombo.
0	0	0	0	0	0	13	18	0	S 72° W		11·5			92		85		·801		4·7		1		0·41	1·59	− 1·18	5·79	6·99	− 1·20	0·15	Hambantota.
0	0	0	0	0	0	11	19	1	S 75° W	N 87° W	11·9	12·4	− 0·5	90	+ 3					5·1	− 1·3	11	− 3·0	5·29	8·73	− 3·44	34·16	25·57	+ 8·59	1·84	Minicoy.
0	0	0	0	0	0	14	16	1	S 72° W		17·7			90		79	− 4	·880	− ·015	7·2	− 0·5	13	− 2·8	7·12	12·08	− 4·96	20·09	29·01	− 8·92	2·47	Amini Divi.
																															Gyantse.
																															Pharijong.
31	0	0	0	0	0	0	0	0			0·4					84	+ 2	·624	+ ·023	9·5	+ 2·8	27	− 0·8	22·75	25·56	− 2·81	70·39	65·32	+ 5·07	2·96	Gangtok.
																									0·99			1·09			Gartok.
27	2	0	0	0	0	0	0	2	N 18° W	N 52° W	1·7	3·6	− 1·9	10	+ 3	70	+ 24	·629	+ ·193	3·8	+ 1·2	2	+ 1·3	0·50	0·22	+ 0·28	3·28	1·20	+ 2·08	0·21	Kashgar.
										S 68° E															0·13			1·12			Kabul.
29	0	0	0	0	0	0	0	2	N 45° W		1·3			3		57	+ 11	·466	− ·026	1·8	+ 1·4	0	0	0	0·06	− 0·06	4·33	1·65	+ 2·68	0	Meshed.
1	1	1	15	7	1	0	3	2	S 80° E	S 68° E	8·5	11·1	− 2·6	53	− 4	76	+ 2	1·039	− ·008	3·5	+ 1·5	0	0	0	0·01	− 0·01	0	0·08	− 0·08	0	Jask.
11	1	0	0	10	0	0	0	9	N 67° E	N 72° E	2·4	3·4	− 1·0	2	− 44	62	− 13	·876	− ·161	5·7	+ 2·5	0	− 0·1	0	0·02	− 0·02	0	0·16	− 0·16	0	Muscat.
2	1	0	1	0	0	0	12	15	N 61° W	N 37° W	9·8	6·2	+ 3·6	76	+ 32	74	+ 7	·974	+ ·031	0·8	+ 0·1	0	0	0	0	0	0	0·02	− 0·02	0	Bushire.
29	0	0	0	0	0	0	2	0	W	N 46° W	1·2	2·6	− 1·4	6	− 26	50	− 2	·477	− ·059	0·3	− 0·4	0	− 0·1	0	0·02	− 0·02	0·01	0·28	− 0·27	0	Ispahan.
25	1	0	1	0	3	1	0	0	S 5° E	S 44° W	2·7	1·7	+ 1·0	10	− 11	45	+ 2	·447	− ·025	1·7	+ 0·8	1	+ 0·5	0·17	0·17	0	0·91	0·74	+ 0·17	0·17	Tehran.
1	3	1	0	0	0	2	11	13	N 61° W	N 11° W	7·4	3·4	+ 4·0	76	+ 2	29	− 10	·337	− ·194	0·5	+ 0·4	0	0	0	0	0	0·09	0·21	− 0·12	0	Baghdad.
10	0	1	3	8	3	5	1	0	S 22° E	S 12° W	6·2	7·7	− 1·5	40	− 12	75	+ 4	·917	+ ·021	6·3	+ 2·9	0	0	0	0·03	− 0·03	0	0·21	− 0·21	0	Aden.
2	0	0	0	0	13	15	1	0	S 27° W	S 15° W	5·3	6·0	− 0·7	87	− 3	84	− 2	·714	− ·012	6·8	+ 0·8	0	− 5·1	0·13	2·45	− 2·32	15·99	15·20	+ 0·79	0·05	Zanzibar.

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

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in July, 1920.

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	4	15	16	17	18	19	20	21	22	23	24	25	26
	II.—Assam.																								
4	Bishnath	82·1	79·6	92·4	+2·6	69·4	−3·4	80·9	−0·4	23·0	96·9	20th	62·7	21st	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	83·9	80·4	98·9	+8·6	67·1	−8·5	83·0	+0·1	31·8	99·6	24th	63·6	26th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	79·4	75·6	90·7	+1·4	70·5	−5·0	80·6	−1·8	20·2	99·7	15th & 28th.	70·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	81·0	77·9	91·5	+2·6	76·9	+1·9	84·2	+2·3	14·6	98·8	3rd	73·7	4th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	81·1	78·6	90·6	+1·6	77·1	+1·0	83·9	+1·3	13·5	98·0	16th	74·6	16th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	81·5	79·8	91·0	+2·4	74·7	...	82·9	...	16·3	94·9	4th & 20th.	71·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	82·6	79·2	92·6	+2·8	78·1	+2·0	85·3	+2·4	14·5	97·0	15th	74·2	7th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	81·8	78·8	91·2	+1·3	76·1	−0·5	83·7	+0·4	15·1	97·8	27th	73·7	8th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	82·9	79·4	92·9	...	66·8	...	79·8	...	26·1	96·9	20th	61·0	6th & 8th.	...	...	...	...	...	...	...	...	...	...	...
	Messa	85·4	80·4	95·7	+2·9	77·0	+1·3	86·3	+2·1	18·7	98·5	20th	74·0	27th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	79·3	78·9	91·2	+2·5	75·8	+0·6	83·5	+1·5	15·4	94·8	26th	72·5	14th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	82·9	72·5	91·7	+3·4	70·4	−6·6	81·1	−1·6	21·3	92·6	27th	69·1	21st	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	84·3	80·0	85·3	−3·0	74·8	−2·5	80·1	−2·7	10·5	93·9	1st	71·4	2nd	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·7	80·1	89·9	−1·8	75·8	+0·1	82·9	−0·9	14·1	95·0	11th	70·1	26th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	79·1	78·0	90·0	−1·3	76·0	+1·1	83·0	−0·1	14·0	98·9	23rd	73·8	6th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	83·6	79·8	90·3	+1·3	74·9	−0·2	82·6	+0·5	15·4	96·6	24th	73·0	3rd & 5th.	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	83·7	79·2	89·3	+0·8	76·0	+1·0	82·7	+0·9	13·3	93·2	31st	71·0	7th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	81·5	79·3	90·9	...	78·1	...	84·5	...	12·8	99·9	2nd	75·3	17th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

C.

and fifth class stations in India, etc., in July, 1920.

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 1920.	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
...	...	...	...	...	89	−6	·974	+·036	...	...	17	−2·8	18·92	19·87	− 0·95	50·62	44·09	+ 6·53	2·60	Bishnath.
...	...	...	...	...	85	− 8	·989	+·036	...	...	13	−7·4	8·11	20·51	− 12·40	32·74	44·33	− 11·59	2·47	Borjuli.
...	...	...	...	...	84	− 7	·842	−·080	...	...	22	−1·0	18·01	18·94	− 0·93	56·01	61·04	− 5·03	2·84	Chandkhira.
...	...	...	...	...	87	− 7	·913	−·018	...	...	14	−7·2	10·92	19·51	− 8·59	45·06	44·97	+ 0·09	2·80	Doom Dooma.
...	...	...	...	...	89	− 3	·946	+·032	...	...	15	−6·9	13·11	20·87	− 7·76	41·65	47·91	− 6·26	5·10	Dikom.
...	...	...	...	...	92	+ 1	·990	+·043	...	...	10	−8·7	8·23	13·57	− 5·34	23·94	32·22	− 8·28	1·63	Golaghat.
...	...	...	...	...	85	− 5	·951	+·036	...	...	19	−4·0	14·44	22·28	− 7·84	50·41	62·56	− 12·15	2·87	Hailakandi.
...	...	...	...	...	87	− 2	·946	+·006	...	...	18	−0·4	17·99	15·55	+ 2·44	35·49	36·92	− 1·43	2·93	Jorehat.
...	...	...	...	...	86	...	·950	...	...	...	10	−0·9	5·77	7·90	− 2·13	14·91	22·98	− 8·57	3·10	Lumding.
...	...	...	...	...	79	−6	·965	+·022	...	...	13	−7·5	12·62	18·39	− 5·77	33·07	39·30	− 6·23	2·02	Messa.
...	...	...	...	...	98	+ 3	·981	+·110	...	...	13	−4·5	11·61	19·41	− 7·80	40·52	44·00	− 3·48	1·92	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	12	−6·6	10·42	15·27	− 4·85	45·64	45·64	0	1·70	Comilla.
...	...	...	...	...	58	−30	·655	−·301	...	...	19	−7·7	8·03	12·32	− 4·29	33·75	44·22	−10·47	3·54	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	18	+0·5	10·53	12·87	− 2·34	34·66	35·43	− 0·77	2·60	Faridpur.
...	...	...	...	...	82	− 5	·961	−·012	...	...	22	+6·2	10·50	11·13	− 0·63	30·39	33·15	− 2·76	1·48	Goalundo.
...	...	...	...	...	89	+ 2	·994	+·021	...	...	21	+4·0	6·09	12·95	− 6·86	25·79	32·41	− 6·62	0·77	Pabna.
...	...	...	...	...	...	...	...	...	...	...	15	−0·6	7·62	11·62	− 4·00	19·63	32·59	− 12·96	1·57	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	20	+4·9	10·24	10·89	− 0·65	19·74	27·40	− 7·66	2·34	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	17	+2·5	9·62	10·58	− 0·96	15·29	24·94	− 9·65	2·36	Malda.
...	...	...	...	...	...	...	...	...	...	...	13	−1·8	9·19	14·56	− 5·37	29·02	43·10	− 14·08	2·12	Rangpur.
...	...	...	...	...	95	0	·942	−·010	...	...	22	−2·5	19·92	40·72	−20·80	55·15	83·95	− 28·80	2·05	Dam Dim.
...	...	...	...	...	83	− 4	·973	+·030	...	...	22	−0·1	16·38	35·62	− 19·24	71·49	75·81	− 4·32	2·43	Kalchini.
...	...	...	...	...	81	− 9	·931	+·021	...	...	22	−3·2	15·67	39·59	− 23·92	60·66	82·17	− 21·51	2·76	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	21	+2·1	16·91	29·16	− 12·25	85·27	76·53	+ 8·74	4·50	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	19	+2·7	13·15	11·27	+ 1·88	24·61	29·00	− 4·39	2·30	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	22	+6·4	20·61	12·90	+ 7·71	25·23	28·03	− 2·80	2·29	Bankura.
...	...	...	...	...	90	...	·965	...	9·6	...	21	+4·7	14·96	12·28	+ 2·68	22·91	26·00	− 3·09	2·15	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	26	+8·4	17·23	12·78	+ 4·45	22·64	23·88	− 1·24	1·41	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	16	+1·1	7·63	12·23	− 4·60	14·40	23·83	− 9·43	1·60	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	17	+2·7	8·45	12·39	− 3·94	14·34	23·13	− 8·79	1·20	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	16	+1·9	19·30	14·74	+ 4·56	27·37	26·70	+ 0·67	5·05	Motihari.
...	...	...	...	...	...	...	...	...	...	...	21	+7·2	18·01	11·48	+ 6·53	21·43	19·29	+ 2·14	2·29	Chapra.
...	...	...	...	...	...	...	...	...	...	...	22	+8·0	24·47	12·22	+ 12·25	31·94	20·20	+ 11·74	3·35	Arrah.
...	...	...	...	...	...	...	...	...	...	...	19	+5·4	15·4	10·42	+ 4·99	20·73	17·20	+ 3·53	3·40	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	74·8	70·9	81·6	...	72·1	...	76·9	...	9·5	93·9	2nd	70·1	18th & 31st.	8	0	0	0	0	0	8	11	4	S 81° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	80·1	76·2	93·1	...	75·2	...	84·2	...	17·9	97·3	2nd	72·6	27th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	84·7	75·5	97·	...	81·0	...	89·0	...	16·0	105·3	2nd	73·1	8th & 31st.	...	...	...	...	...	...	...	...	...	...	...
	Koraput	70·2	67·1	76·4	...	63·8	...	70·1	...	12·6	87·2	2nd	54·8	24th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	86·6	78·1	98·5	...	81·3	...	89·9	...	17·2	108·5	3rd	70·9	28th	1	5	6	5	2	5	2	3	2	N 59° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	72·0	54·1	90·5	...	52·3	...	71·4	...	38·2	97·1	22nd	46·3	1st	6	0	0	0	3	0	12	0	10	S 77° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	77·6	75·6	88·8	+1·2	71·8	−2·3	80·3	−0·5	17·0	94·3	24th	69·5	3rd	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	69·3	68·8	72·8	−0·7	65·5	+0·5	69·1	−0·1	7·3	77·9	19th	61·2	14th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	81·0*	+3·7	61·3	+3·4	71·1*	+3·5	19·7	88·6	23rd	57·8	28th	8	2	0	2	2	5	3	6	3	S 60° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	100·5	+2·3	65·0	+1·7	82·7	+2·0	35·5	105·0	13th	56·9	31st	...	...	...	...	...	...	...	...	...	...	...

* Mean of 30 days.

C—*continued.*

and fifth class stations in India, etc., in July, 1920—*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 1920.	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.
...	...	...	...	...	...	...	...	...	...	...	12	+ 2·1	18·96	9·16	+ 9·80	24·46	12·88	+11·58	5·20	Meerut.
...	...	...	...	...	...	...	...	...	...	...	20	− 0·1	35·09	25·52	+ 9·57	40·59	35·58	+ 5·01	7·18	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·14	...	...	0·89	...	...	0·14	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	10	+ 0·1	10·33	7·73	+2·60	20·06	11·48	+8·58	2·41	Udaipur.
																				XII.—Central Provinces.
2·6	...	...	61	...	83	...	·710	...	8·5	...	15	+ 1·0	6·66	10·55	− 3·89	10·83	17·23	− 6·40	0·98	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	4	− 7·0	2·16	7·32	− 5·16	5·98	13·37	− 7·89	0·95	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·6	0·13	0·41	− 0·28	1·47	2·45	− 0·98	0·08	Tinnevelly.
...	...	...	...	...	83	...	·853	...	8·1	...	1	− 4·4	0·59	2·63	− 2·04	3·63	6·58	− 2·95	0·43	Anantapur.
...	...	...	...	...	65	..	·761	...	0·2	...	4	− 6·3	2·08	5·67	− 3·59	11·36	11·81	− 0·45	0·81	Guntur.
...	...	...	...	...	82	...	·631	...	...	...	22	...	12·69	...	...	18·91	...	...	1·51	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	8	− 4·6	5·51	9·05	− 3·54	19·63	35·09	−15·46	2·36	Car Nicobar.
																				Kashmir.
...	...	...	19	...	69	...	·859	...	3·9	...	12	+ 1·3	11·16	12·25	− 1·09	13·94	15·74	− 1·80	2·30	Jammu.
...	...	...	...	...	...	...	...	...	...	...	3	− 6·5	1·10	3·81	− 2·71	10·41	11·63	− 1·22	0·41	Sonamarg.
...	...	...	42	...	30	...	·236	...	1·8	...	0	− 0·6	0	0·16	− 0·16	0·81	1·40	− 0·59	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	3	− 1·3	0·75	2·36	− 1·61	2·26	3·58	− 1·32	0·41	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	91	+ 4	·856	−·015	...	...	25	+ 0·8	21·82	33·20	−11·38	50·35	70·45	−20·10	4·43	Panighatta.
...	...	...	...	...	98	+ 5	·700	+·062	...	...	29	+ 1·2	32·93	43·81	−10·88	58·37	87·07	−28·70	2·55	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	30	+ 0·8	29·15	40·92	−11·77	67·00	85·24	−18·24	3·50	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	25	+ 1·7	7·46	10·33	− 2·87	25·11	25·20	− 0·09	0·70	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	34·42	...	...	82·53	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	20	...	23·02	...	...	33·87	...	...	3·75	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	22	+ 0·1	25·23	29·25	− 4·02	32·75	40·94	− 8·19	3·15	Mussooree.
...	...	...	26	...	...	...	...	...	5·7	0	2	− 0·1	0·33	0·65	− 0·32	4·59	1·79	+ 2·80	0·18	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	− 2·1	0·59	1·34	− 0·75	4·01	4·85	− 0·84	0·21	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·5	0	0·11	− 0·11	0·01	0·31	− 0·30	0	Pishin.

Table

Abstract of observations taken at 8 hrs. at 61 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		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.	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	2
	Extra India.																								
	Chumbi	55·7	51·5	65·5	...	50·1	...	57·8	...	15·4	78·0	2nd	45·8	13th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan . . .	96·4	72·8	110·3	...	81·7	...	86·0	...	28·6	116·0	2nd	78·0	14th & 15th.	0	28	0	0	0	0	1	1	1	N 5° W	...

C—*concluded.*

fifth class stations in India, etc., in July, 1920—*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 1920.	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.
...	...	...	...	...	94	...	416	...	4·0	...	14	−3·5	4·53	5·65	−1·12	11·58	15·97	−4·39	0·61	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	10	+2·2	3·10	3·60	−0·50	25·72	25·74	−0·02	0·56	Pemba.
...	...	...	92	...	34	...	·493	...	...	...	0	...	0	..	...	0	...	...	0	Abadan.

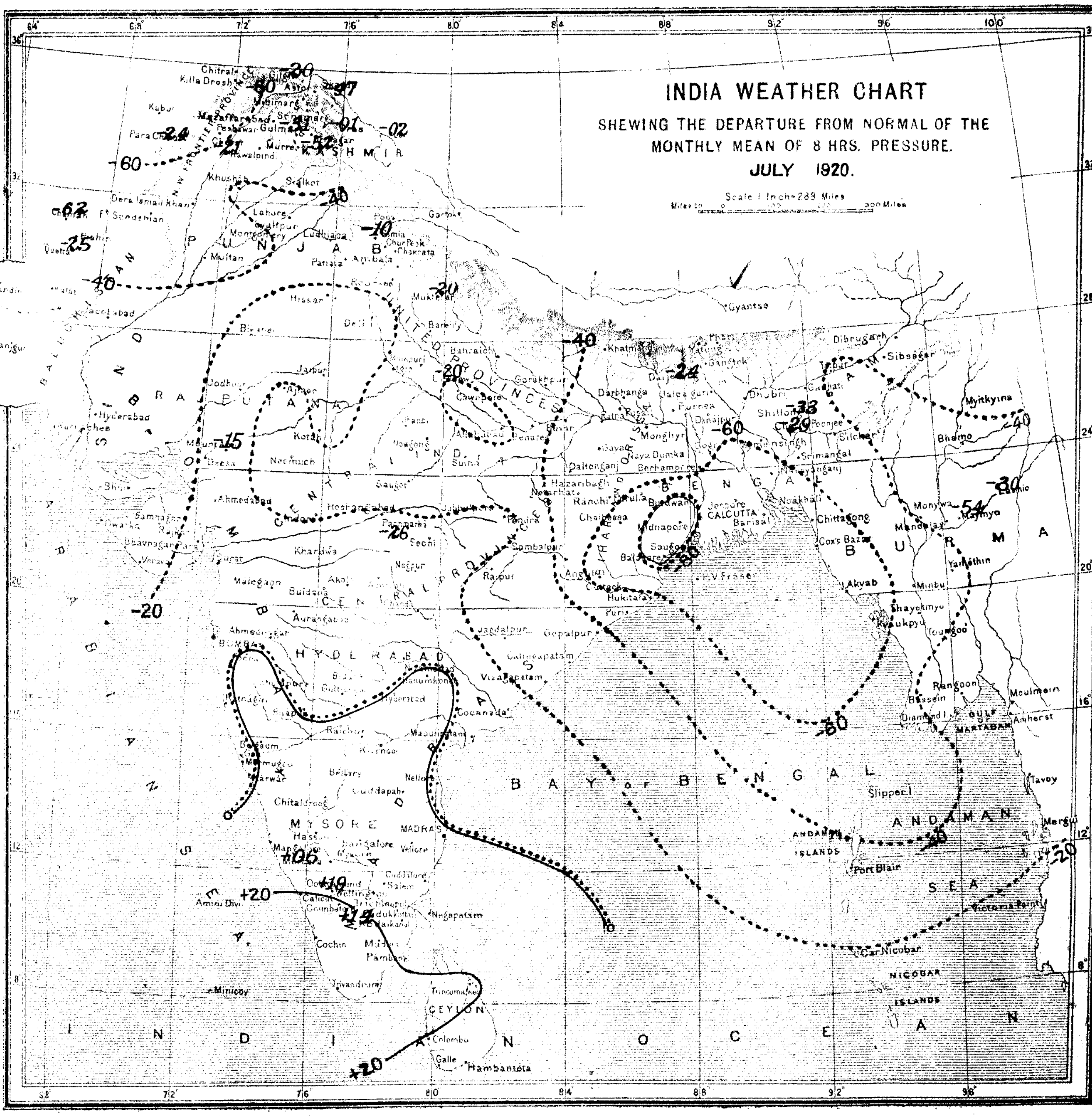
SGPI-21-IV-5-(13)-16-1-23-325.

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.

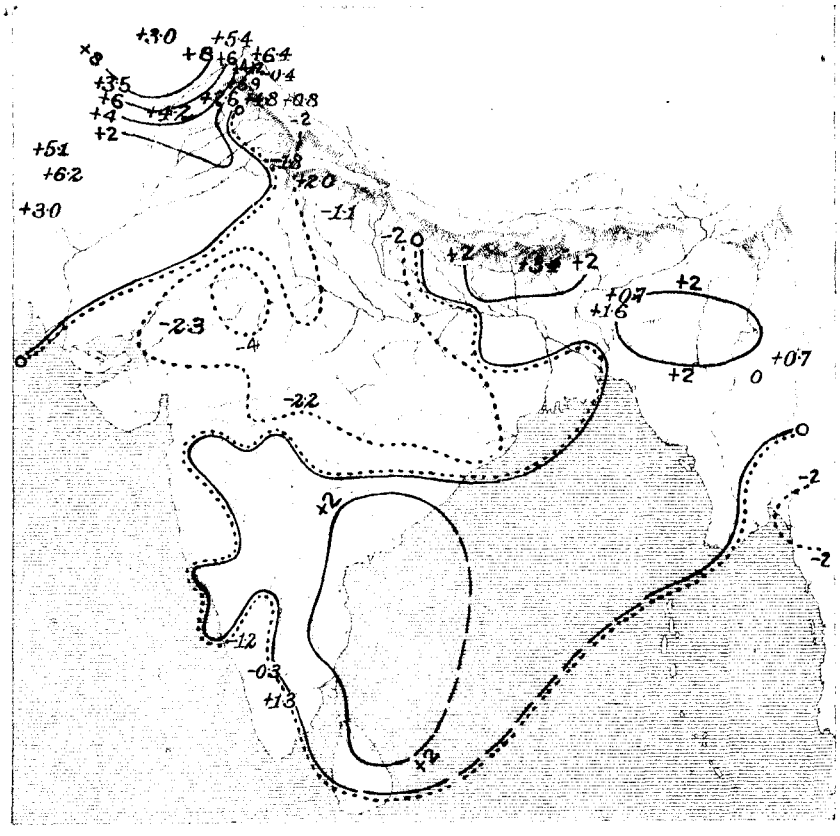


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

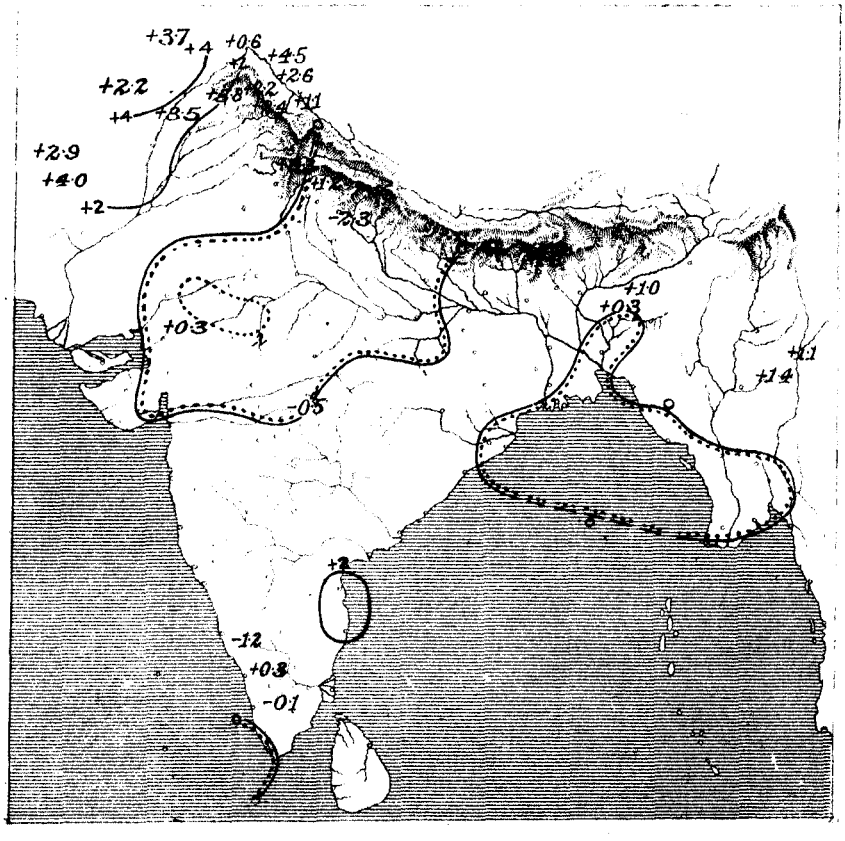


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

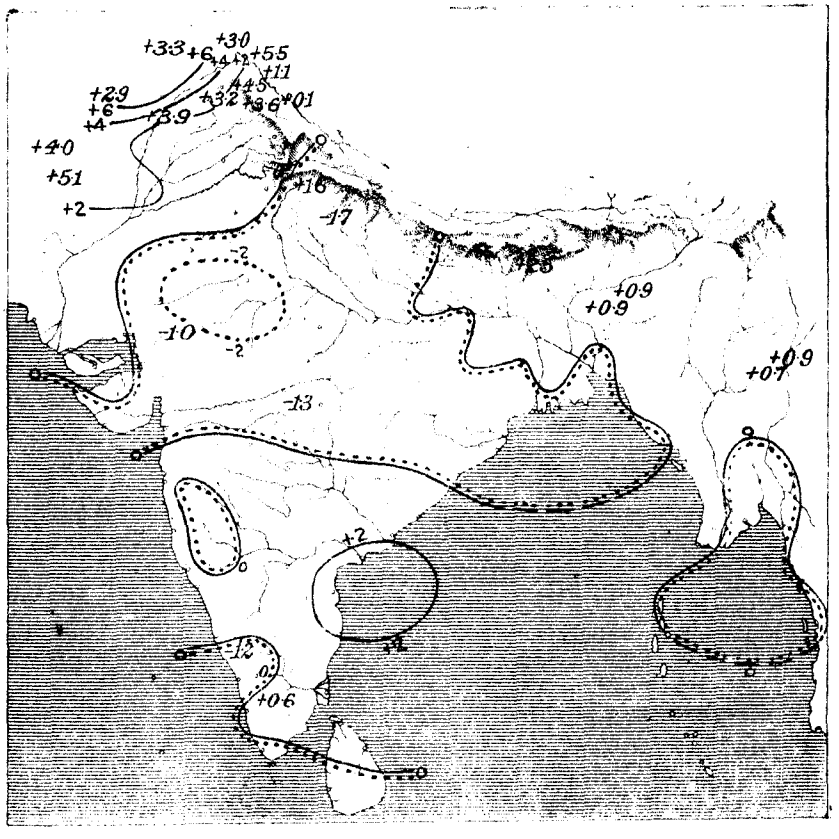


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

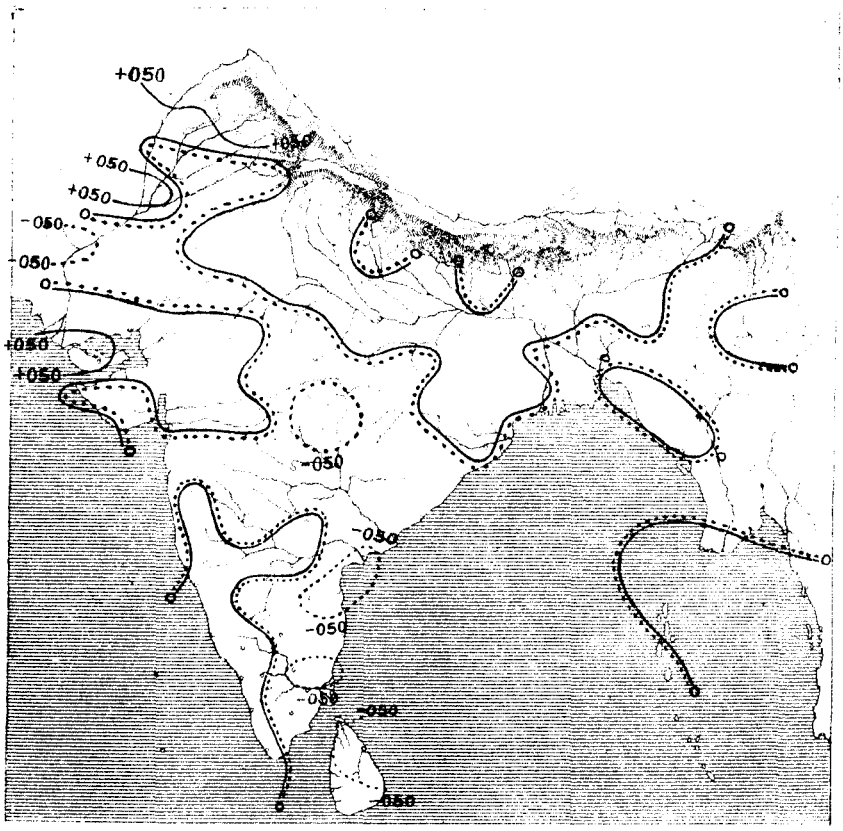


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

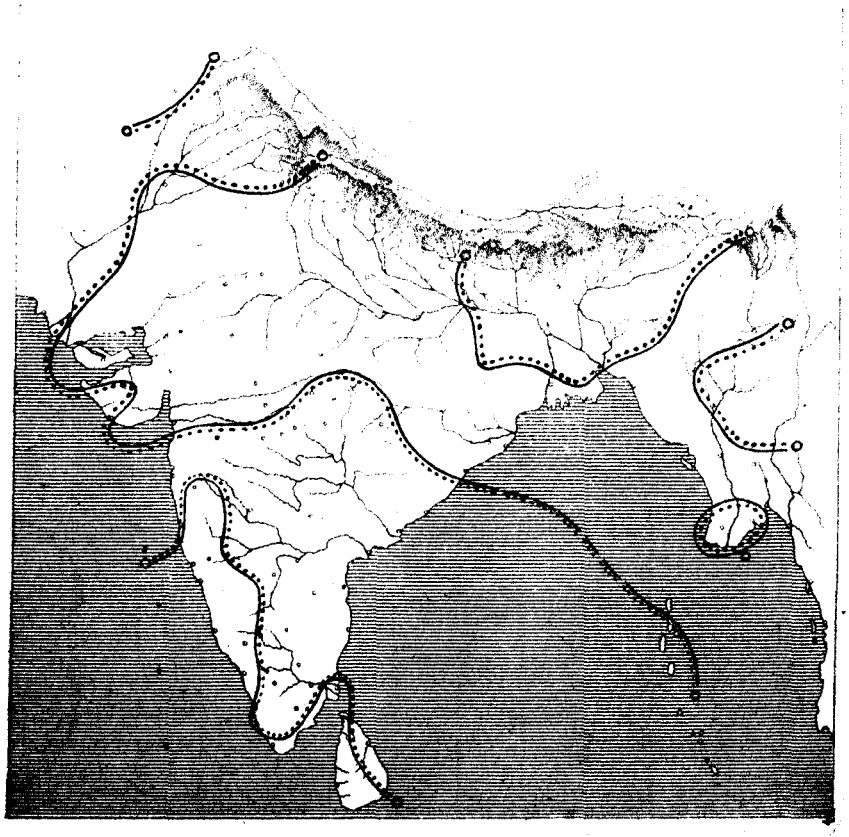


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

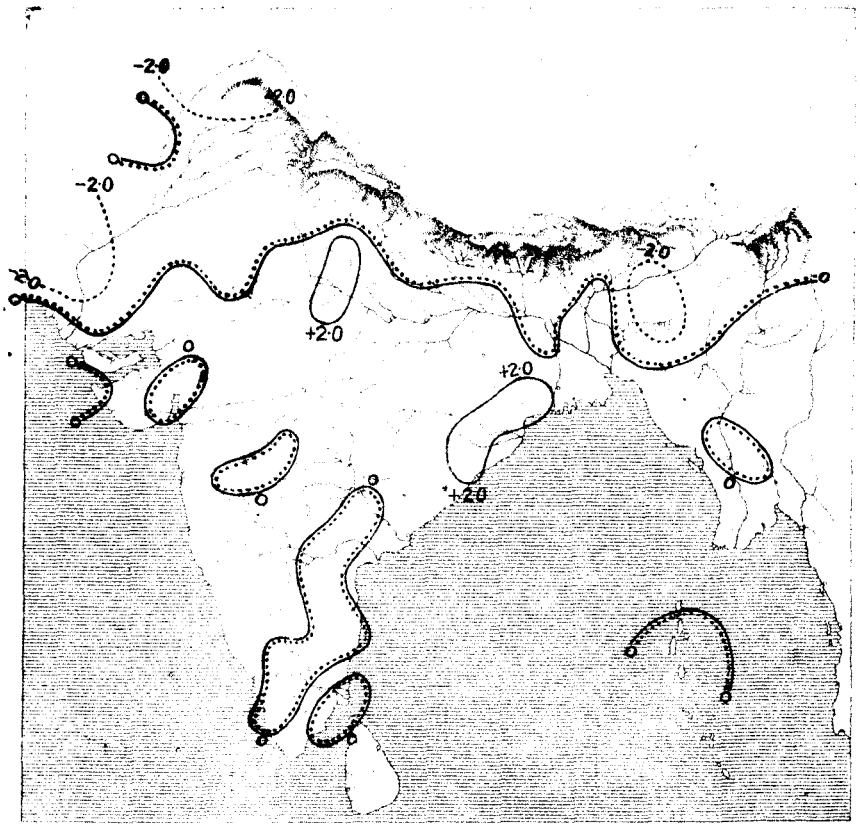
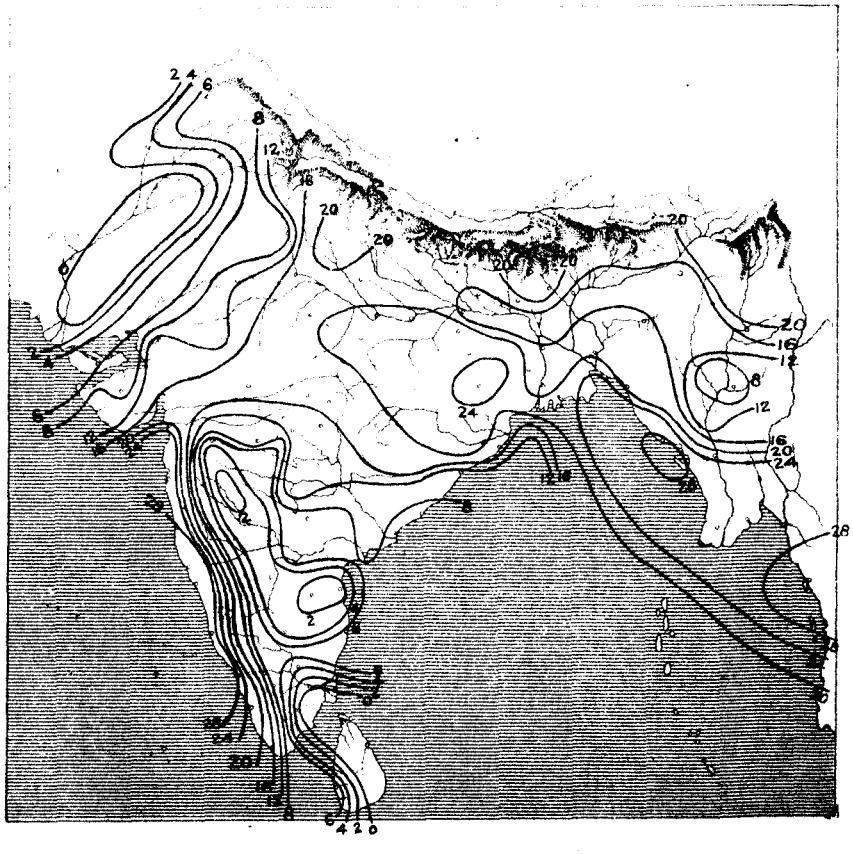
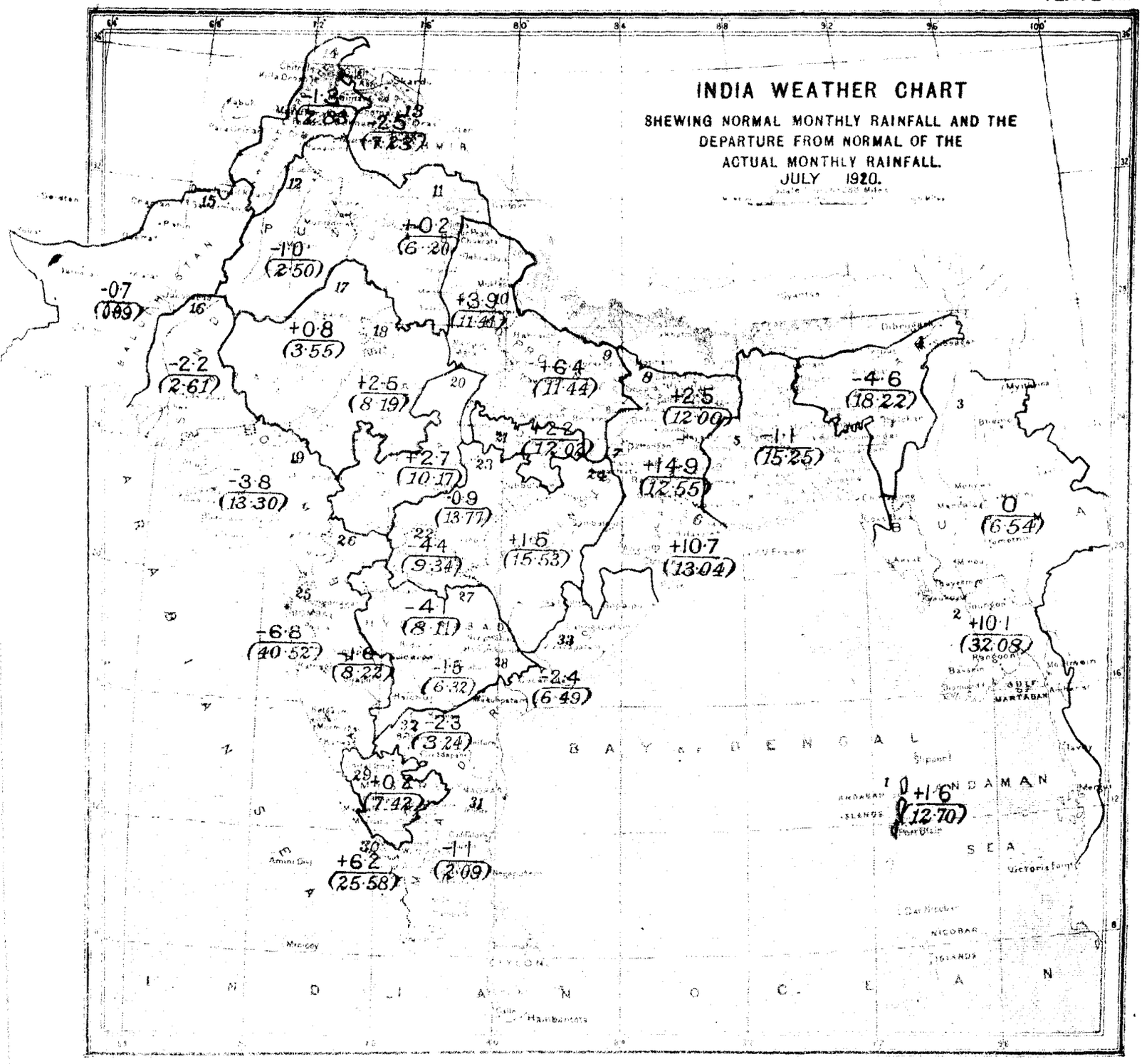


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, AUGUST, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of August, 1920, is based on observations taken daily at 8 hrs. at 212 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and 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.

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 current was very weak and unsteady during the month, and rainfall was in moderate to large defect except in Burma and north-east India; in these two areas the Bay current was fairly active, and rainfall was normal or in slight defect. Two depressions formed near the head of the Bay, and moving north-westwards disappeared over Central India, after giving heavy rain along their tracts. The rainfall of the first depression caused serious floods in Orissa and south-west Bengal. The deficiency of rainfall over the plains as a whole was 2·95″ or 30 per cent.

The distribution of cloud and humidity agreed closely with that of rainfall. Cloud proportion was in defect except in Burma, north-east India and Madras; both absolute and relative humidities were below normal in the United Provinces, the Punjab, the North-West Frontier Province, the central parts of the country and Hyderabad. Maximum temperature was above normal in the north of the Peninsula, but below it in Kashmir. Minimum temperature was lower than usual in Rajputana and Kashmir.

Averaged over the plains of India as a whole barometric pressure was ·026″ above normal; it was also high in the Indian Ocean.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—On two days during the month the sun could not be observed for spots and faculae. The prominence record was complete on 20 days and imperfect on 6 other days.

Sunspots.—Nine new groups were recorded with a daily average of 1·8. The mean life of a spot was 6·3 days. The distribution of the spots in latitude was as follows:—

TABLE 1.

—	11°—20°	21°—30°	Mean latitude.	Extreme latitude.
North	5	...	12°·2	11° & 13°
South	3	1	15·0	11 & 22

Prominences.—30 prominences with a height of 60″ or more and 3 metallic prominences were recorded. Prominences 120″ high were photographed on the 12th and 14th and this was the greatest recorded during the month.

Magnetic disturbances.—"Moderate" disturbances were registered from 4th to 5th, 8th to 9th and on 19th and 30th.

T. ROYDS,
Ag. Director,
Kodaikanal and Madras Observatories.

Seismic records.

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

Subsoil—Rock.

Apparatus.—Milne 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)			Distance Δ (Km.)	Remarks.
				AN.	AE.	AZ.		
1920.		h. m. s.						
Aug. 2nd	eP	6 36 06	...	...	...	...	...	Widening of line.
	F	6 38 42	...	...	...	...	...	
„ 2nd	eP	7 0 24	...	...	...	...	...	Widening of line.
	F	7 1 48	...	...	...	...	...	
„ 15th	eP	7 12 36	...	...	...	...	...	Widening of line.
	F	7 16 30	...	...	...	...	...	
„ 15th	eP	8 34 06	...	...	...	..	...	
	iL	8 39 42	...	...	...	...	...	
	M	8 41 00	...	...	90	...	...	
	F	9 45 18	...	...	...	...	...	
1920.		h. m. s.						
Aug. 20th	eP	17 24 24	...	...	...	...	...	
	iL	17 35 36	...	...	...	...	...	
	M	17 38 54	...	...	170	...	...	
	F	18 26 42	...	...	...	...	...	
„ 26th-27th.	eP	23 54 48	...	...	...	...	...	
	eL	23 59 00	...	...	...	..	...	
	M	0 1 18	...	...	40	...	...	
	F	0 18 00	...	...	...	...	...	

A. A. NARAYANA AIYAR,
Ag. Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of August 1920, the traces showed 8 calm days and 23 days of small disturbance.

The days of the month selected as "quiet" for the purposes of the Magnetic Survey of India are the 1st, 2nd, 24th, 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	C	9	S	17	C	25	C
2	C	10	S	18	S	26	C
3	S	11	S	19	S	27	S
4	S	12	S	20	C	28	S
5	S	13	S	21	S	29	S
6	C	14	S	22	S	30	S
7	S	15	S	23	S	31	S
8	S	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° 19′ 38″
Horizontal force	0·36934 C. G. S. unit.
Vertical force	0·17153 „ „
Inclination	24° 54′·6.
Horizontal force range . . .	·00037 C. G. S. unit.
Horizontal force summed range . .	·00254 „ „
Declination range	5′·6.
Declination summed range . . .	25′·2.

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

Seismic records.

$\varphi = 18° 53' 36''$; $\lambda = 72° 48' 56''$; $h = 11$ m.

Subsoil—Trap.

Apparatus.—Omori-Ewing Horizontal Pendulum (E.-W.).

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.
1920.		h. m. s.						
Aug. 15th	P	7 7 29	...	...	...	...	...	
	M	.....	...	...	...	...	...	Maximum cannot be determined as the movements are very small.
„ 15th	P	8 30 14	...	...	...	...	...	„
	M	.....	...	...	...	...	...	

SHAMSHADALI KHAN,
for *Director,*
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

$\varphi = 22° 32'$ 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	30	1	
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	REMARKS.
1920.		h. m. s.						
Aug. 8th	P	23 7 24	...	...	...	...	...	
	S	23 8 12	2	...	...	...	...	
	F	23 25 00	...	...	...	...	...	
„ 13th	P	14 32 18	...	...	...	...	...	
	S	14 35 18	2	...	...	...	...	
	F	14 42 18	...	...	...	...	...	
„ 15th	P	7 0 18	...	...	...	...	...	
	S	7 1 18	3	...	...	...	...	
	L	7 2 42	5	...	...	...	...	
	F	7 29 42	...	...	...	...	...	
„ 15th	P	8 29 12	...	...	...	...	...	
	F	8 46 42	...	...	...	...	...	
„ 18th	P	21 16 06	...	...	...	...	...	
	S	21 18 06	2	...	...	...	...	
	L	21 20 06	5	...	...	...	...	
	F	21 36 18	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

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

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

TABLE 6.

	V	To	G	$\frac{r}{To^2}$
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.
1920.		h. m. s.						
Aug. 2nd	P	7 17 36	...	...	...	...	...	
	eL	7 18 54	...	...	...	...	...	
	F	7 23 54	...	...	...	...	...	Slight local shock. Felt at Drosh, Srinagar and Gulmarg.
„ 3rd	e	21 11 36	...	...	...	...	...	
	M	21 29 12	...	46	...	...	...	
	F	21 58 42	...	...	...	...	...	Tremors.
„ 15th	e	7 04 24	...	...	...	...	...	Felt at Chittagong and Comilla.
	M	7 08 00	...	...	...	...	...	
	F	7 24 00	...	...	...	...	...	
„ 15th	e	8 39 06	...	...	...	...	...	
	M	9 02 12	...	39	...	...	...	
	F	9 30 36	...	...	...	...	...	
„ 19th	e	1 26 24	...	...	...	...	...	
	F	1 31 06	...	...	...	...	...	Slight tremors.
„ 20th	e	17 33 18	...	...	...	...	...	
	M	17 36 30	...	...	...	...	...	
	F	18 20 54	...	...	...	...	...	
1920.		h. m. s.						
Aug. 26th	e	23 20 36	...	...	...	...	...	
	M	23 21 00	...	18	...	...	...	
	F	23 21 36	...	...	...	...	...	
„ 27th	e	23 42 06	...	...	...	...	...	
	M	23 50 54	...	29	...	...	...	
	F	0 13 42	...	...	...	...	...	
„ 27th	e	7 39 12	...	...	...	...	...	
	F	7 48 24	...	...	...	...	...	Slight 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.
	1920.	h. m.	sec.			
Drosh . . .	Aug. 1st	19 10	6	7	4	
„ . . .	„ 2nd	7 15	45	8	2	
Srinagar (Kashmir) .	„ 2nd	7 22	10	6	2	
Gulmarg . . .	„ 2nd	7 30	5	8	1	
Cuddapah . . .	„ 6th	0 00	3	3	1	
Salonah (Nowgong District, Assam).	„ 8th	23 03	5 to 6	6	1	
Borjuli (Darrang District, Assam).	„ 8th	23 07	4	5	1	
Gulmarg (Kashmir) .	„ 10th	12 30	8	8	2	
Chittagong . . .	„ 15th	7 01	18	7	2	
Drosh . . .	„ 17th	20 45	30	7	1	
„ . . .	„ 28th	18 00	30	7	3	
„ . . .	„ 29th	5 10	20	7	2	
„ . . .	„ 29th	11 00	25	7	2	

S. SITARAMAYYA,
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.	+ ·030	+ ·027	+·035
Actual mean wind direction . . .	S 65° E	S 12° W	S 40° E
Normal mean wind direction . .	S 66° E	S 1° W	S 35° E
Actual mean wind velocity (miles per diem).	235	98	233
Normal mean wind velocity (miles per diem).	209	120	231
Rainfall departure from normal in inches.	+ 0·45	—0·28	—1·63

Depressions and cyclonic storms.

8. Two depressions formed at the head of the Bay during the month. The first appeared off the Chittagong coast during the 4th and crossing the coast on the 5th, lay over south Bengal on the 6th. It continued to move in a west-northwesterly direction giving very heavy rain in southwest Bengal and Chota Nagpur, and disappeared over Central India East during the 8th. Calcutta had nearly 13 inches in the 48 hours ending 8 A.M. of the 7th; while on the 6th Chaibasa had 7 inches and Ranka and Gailkura 12 inches each and Kalimati 16 inches. The rivers Cossye, Khorkai and Subarnarekha were again flooded. Many villages were submerged in the Midnapore district, and parts of Midnapore and Jamshedpore towns were under water. In the Balasore district 80 square miles were inundated and many villages and the crops over a large area washed away. The Baitarani and other rivers in the Cuttack district were also in flood, and did serious damage to crops.

The second depression developed slowly at the head of the Bay between the 22nd and 24th; crossing the south Orissa coast on the 25th it moved in a west-northwesterly direction and lay over the northwest of the Central Provinces on the 27th. Thence it moved north into Central India and disappeared in the neighbourhood of Jhansi during the 28th. It gave heavy rain in Orissa and the Central Provinces, Dhamain and Sambalpur recording 10 inches and 7 inches respectively on the 25th, Saraipali 12 inches on the same date and Pachmarhi 10 inches on the 26th. The rivers in Orissa were in flood for the fourth time since the middle of July, but the demage was not serious.

The official estimate of the damage done by these floods in Orissa puts the total number of breeches at 586, and the number of houses collapsed and seriously damaged at nearly 27,000. 53 human lives were lost and 882 square miles of crop were lost, while nearly 100 square miles were rendered temporarily unfit for cultivation by sand deposit.

Pressure.

9. The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
Burma	—·005
Assam	—·011
Bengal	+·008
Bihar and Orissa	+·026
United Provinces	+·022
Punjab	+·013
North-West Frontier Province	—·001
Sind	+·036
Rajputana	+·052
Bombay	+·042
Central India	+·036
Central Provinces	+·046
Hyderabad	+·045
Mysore	+·028
Madras	+·029

The following table gives a comparison of the departure from normal of mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure A.	PLAIN STATION.	Departure from normal pressure B.	Departure of pressure difference B—A.
Quetta . . .	+·026	Jacobabad . .	+·034	+·008
Leh . . .	+·004	Lahore . .	+·011	+·007
Murree . . .	+·015	Peshawar . .	—·011	—·026
Simla . . .	+·017	Ludhiana . .	+·010	—·007
Mukteswar . .	+·004	Bareilly . .	+·006	+·002
Darjiling . . .	—·024	Dhubri . .	—·002	+·022
Mount Abu . .	+·043	Deesa . . .	+·059	+·016
Pachmarhi . .	+·029	Khandwa . .	+·047	+·018
Kodaikanal . .	+·018	Madura . .	+·039	+·021

Temperature.

10. Table 11 gives the actual temperature 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	77·2	80·9	7·3	− 0·3	0	− 0·3
2. Lower Burma	85·1	75·4	80·3	9·7	+ 0·8	+ 0·3	+ 0·5
3. Upper Burma	89·4	76·0	82·7	13·4	+ 0·3	+ 0·5	− 0·2
4. Assam	88·3	76·5	82·4	11·8	− 0·3	− 0·4	+ 0·1
5. Bengal	88·1	78·0	83·1	10·1	+ 0·4	− 0·1	+ 0·5
6. Orissa	88·4	77·7	83·0	10·7	+ 0·4	− 0·3	+ 0·7
7. Chota Nagpur	87·4	75·6	81·5	11·8	− 0·3	− 0·2	− 0·1
8. Bihar	90·0	78·6	84·3	11·4	+ 0·6	− 0·1	+ 0·7
9. United Provinces, East	91·0	78·4	84·7	12·7	+ 1·2	− 0·1	+ 1·3
10. Do. do., West	92·1	78·0	85·0	14·1	+ 1·8	0	+ 1·8
11. Punjab, East and North	96·8	78·8	87·8	18·0	+ 2·5	+ 0·3	+ 2·2
12. Do., South-west	100·9	80·2	90·6	20·7	− 0·1	− 1·6	+ 1·5
13. Kashmir	81·9	57·8	69·9	24·1	− 2·3	− 2·1	− 0·2
14. North-West Frontier Province	103·1	79·5	91·3	23·6	+ 3·1	− 0·1	+ 3·2
15. Baluchistan	96·1	67·9	82·0	28·2	− 1·0	− 1·8	+ 0·8
16. Sind	95·3	79·8	87·5	15·5	− 0·1	+ 0·3	− 0·4
17. Rajputana, West	94·4	76·2	85·3	18·2	− 1·0	− 3·3	+ 2·3
18. Do., East	89·1	74·9	82·0	14·2	− 0·8	− 2·1	+ 1·3
19. Gujarat	88·4	76·0	82·2	12·4	+ 0·4	− 0·5	+ 0·9
20. Central India, West	83·5	70·9	77·2	12·7	− 0·2	− 1·1	+ 0·9
21. Do. do., East	86·7	75·9	81·3	10·9	− 0·2	− 0·7	+ 0·5
22. Berar	87·6	71·9	79·7	15·7	+ 2·5	0	+ 2·5
23. Central Provinces, West	85·2	72·6	78·9	12·6	+ 0·4	− 0·9	+ 1·3
24. Do. do., East	85·4	72·9	79·2	12·5	+ 0·3	− 0·5	+ 0·8
25. Konkan	83·7	75·7	79·7	8·0	+ 0·3	− 0·1	+ 0·4
26. Bombay Deccan	86·1	68·6	77·3	17·5	+ 1·9	− 1·0	+ 2·9
27. Hyderabad, North	89·5	71·1	80·3	18·3	+ 3·9	+ 0·1	+ 3·8
28. Do, South	92·7	73·6	83·1	19·1	+ 5·1	+ 0·7	+ 4·4
29. Mysore	82·3	66·0	74·1	16·3	+ 0·9	− 0·3	+ 1·2
30. Malabar	82·2	73·8	78·0	8·4	− 0·9	− 0·5	− 0·4
31. Madras, South-east	93·6	76·1	84·9	17·4	+ 0·4	+ 0·3	+ 0·1
32. Do., Deccan	94·0	75·1	84·5	18·8	+ 2·2	+ 0·3	+ 1·9
33. Do., Coast, North	92·6	79·1	85·9	13·5	+ 2·3	+ 0·7	+ 1·6

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—There were no noteworthy departures in the mean wind direction except in Bengal where the easterly component was weaker than usual.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

DIVISION.	HOURLY WIND VELOCITY IN MILES.		WIND STEADINESS.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	4·0	+0·1	50	−12
Assam	2·4	+0·1	28	+11
Bengal	3·3	−0·2	38	−17
Bihar and Orissa	3·4	+0·1	45	0
United Provinces	2·1	−0·2	27	+ 6
Punjab	3·2	+0·4	40	+ 1
North-West Frontier Province	1·1	−0·9	24	−16
Sind	9·5	+0·5	95	+14
Rajputana	6·3	+0·8	77	+ 4
Bombay	6·7	−2·1	74	− 5
Central India	4·9	−0·1	76	+11
Central Provinces	5·4	+0·5	76	+ 3
Hyderabad	9·5	+1·0	91	+ 6
Mysore	7·4	+0·8	74	− 9
Madras	5·1	−0·1	71	− 1

Upper air.—The monthly mean velocities and directions at different heights above Agra, Lahore, Bangalore, Akyab and Calcutta during the month are given in the following table.

TABLE 14.

Height above sea. kms.	Agra. Height above sea = 0·17 km.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.				Akyab. Height above sea = 0·01 km.				Calcutta. Height above sea = 0·01 km.			
	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L
Ground level	34	3·9	3·5	251	31	0·5	0·1	204	25	5·5	5·1	271	15	1·0	0·7	191	22	3·3	2·1	211
0·5	34	10·3	7·7	290	30	6·8	4·1	259	...	...	...	...	8	5·7	3·7	216	20	5·9	3·0	217
1·0	31	9·5	7·1	308	29	6·2	3·8	272	25	5·8	5·3	286	5	5·1	3·5	238	19	6·0	2·5	230
1·5	29	7·1	4·9	327	29	4·9	2·4	290	25	7·4	7·1	289	4	5·9	5·1	214	14	5·6	1·5	245
2·0	25	6·7	4·5	352	28	4·0	1·5	298	23	7·7	7·4	288	3	5·8	4·7	230	7	6·4	4·9	231
2·5	21	6·2	4·0	360	27	4·0	2·1	319	18	7·8	7·6	287	1	5·0	5·0	285	2	3·0	1·9	209
3·0	15	5·8	4·1	357	27	5·3	3·8	318	13	7·4	7·1	294	1	4·0	4·0	255	2	1·7	1·5	201
3·5	16	5·6	3·7	349	26	6·3	5·2	318	6	5·3	5·1	299	...	...	...	...	2	2·5	2·5	217
4·0	16	6·1	4·0	346	26	7·1	5·8	326	4	3·4	2·7	323	...	...	...	...	1	4·5	4·5	210
4·5	13	6·0	3·3	350	26	7·3	6·5	329	4	4·0	3·2	317	...	...	...	...	1	4·0	4·0	200
5·0	12	5·3	1·8	323	26	6·8	5·7	321	4	4·0	2·8	325	...	...	...	...	1	3·5	3·5	130
5·5	12	5·8	2·2	270	24	6·1	4·2	303	3	3·5	2·8	300	...	...	...	...	...	...	...	...
6·0	12	6·6	3·2	275	24	7·3	5·6	278	1	2·5	2·5	5	...	...	...	...	...	...	...	...
6·5	10	6·7	2·0	268	22	8·1	6·7	275	1	3·5	3·5	355	...	...	...	...	...	...	...	...
7·0	9	6·2	0·2	279	22	8·8	7·4	269	...	...	...	...	...	...	...	...	...	...	...	...
7·5	9	5·4	0·4	265	21	9·8	8·9	268	...	...	...	...	...	...	...	...	...	...	...	...
8·0	8	4·3	0·9	253	19	10·9	10·2	269	...	...	...	...	...	...	...	...	...	...	...	...
8·5	8	5·4	1·3	215	17	10·8	10·1	271	...	...	...	...	...	...	...	...	...	...	...	...
9·0	6	5·7	1·3	205	14	10·7	10·3	268	...	...	...	...	...	...	...	...	...	...	...	...
9·5	5	7·1	1·7	273	13	10·3	9·8	264	...	...	...	...	...	...	...	...	...	...	...	...
10·0	5	7·2	2·7	245	13	11·5	10·5	263	...	...	...	...	...	...	...	...	...	...	...	...
10·5	4	7·5	3·1	240	11	10·6	10·1	253	...	...	...	...	...	...	...	...	...	...	...	...
11·0	4	7·6	2·1	222	10	11·6	11·0	256	...	...	...	...	...	...	...	...	...	...	...	...
11·5	3	8·3	3·7	264	9	12·6	11·5	256	...	...	...	...	...	...	...	...	...	...	...	...
12·0	2	7·0	1·1	115	7	13·5	11·8	251	...	...	...	...	...	...	...	...	...	...	...	...
12·5	1	8·5	8·5	110	4	12·4	11·1	246	...	...	...	...	...	...	...	...	...	...	...	...
13·0	1	10·0	10·0	120	3	11·8	11·4	238	...	...	...	...	...	...	...	...	...	...	...	...
13·5	...	...	...	...	2	15·5	15·3	232	...	...	...	...	...	...	...	...	...	...	...	...

n = Number of flights.
V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of RESULTANT WIND, taking account of direction, metre per sec.
L = Direction of " " North wind = 0° or 360°, East wind = 90°.

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 15.

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 . . .	89	—1	·878	—·005	8·2	+0·1
Assam . . .	90	—1	·921	—·018	7·0	—0·8
Bengal . .	88	—2	·944	—·018	7·6	+0·1
Bihar and Orissa .	85	—2	·908	—·019	7·3	+0·1
United Provinces .	80	—6	·883	—·055	5·1	—1·7
Punjab . .	65	—9	·769	—·102	2·1	—2·0
North-West Frontier Province.	65	—8	·773	—·106	1·1	—1·6
Sind . . .	72	—4	·823	—·030	3·8	—1·0
Rajputana . .	72	—4	·725	—·089	3·9	—2·2
Bombay . .	81	—3	·772	—·037	6·8	—0·6
Central India .	85	—5	·787	—·039	6·9	—1·3
Central Provinces .	81	—7	·741	—·055	6·5	—0·9
Hyderabad . .	72	—8	·681	—·050	5·5	—1·7
Mysore . .	82	—2	·614	—·023	7·9	—0·7
Madras . .	77	—2	·795	—·021	6·2	—0·4

Rainfall.

13. The total fall of the month was normal or in slight defect in the Bay Islands, Burma, north-east India excluding Bihar and in south-east Madras. The deficiency was between 25 per cent. and 50 per cent. over most of the Peninsula and the central parts of the country, and more than 50 per cent. in the United Provinces and north-west India.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	13·7	15·2	10·11	11·13	—1·02	— 9
2. Lower Burma	22·3	24·6	25·12	29·36	—4·24	— 14
3. Upper Burma	9·6	11·0	6·86	7·58	—0·72	— 9
4. Assam	17·7	17·8	18·00	16·52	+1·48	+ 9
5. Bengal	15·4	16·5	14·53	14·06	+0·47	+ 3
6. Orissa	12·9	15·5	11·67	12·95	—1·28	— 10
7. Chota Nagpur	13·6	16·2	13·57	13·34	+0·23	+ 2
8. Bihar	11·1	13·8	8·92	12·87	—3·95	— 31
9. United Provinces, East	8·7	12·7	5·97	11·43	—5·46	— 48
10. Do. do., West	6·9	11·5	5·10	11·31	—6·21	— 55
11. Punjab, East and North	3·9	6·6	3·00	6·30	—3·30	— 52
12. Do., South-west	1·8	2·8	1·29	2·30	—1·01	— 44
13. Kashmir	6·0	8·5	3·85	8·05	—4·20	— 52

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
14. North-West Frontier Province	2·6	4·1	1·32	3·12	—1·80	— 58
15. Baluchistan	0·6	1·2	0·33	0·76	—0·43	— 57
16. Sind	0·5	2·0	0·25	1·72	—1·47	— 85
17. Rajputana, West	1·5	4·7	1·29	3·65	—2·36	— 65
18. Do., East	4·0	9·0	2·88	7·36	—4·48	— 61
19. Gujarat	6·9	10·5	3·65	7·86	—4·21	— 54
20. Central India, West	6·5	11·2	5·39	9·66	—4·27	— 44
21. Do., East	6·5	12·6	5·88	11·64	— 5·76	— 49
22. Berar	5·6	10·5	2·85	7·18	—4·33	— 60
23. Central Provinces, West	9·1	14·1	8·51	12·25	—3·74	— 31
24. Do., East	12·1	15·5	10·00	14·87	—4·87	— 33
25. Konkan	22·1	24·3	13·92	23·69	—9·77	— 41
26. Bombay Deccan	6·6	9·5	3·20	5·52	—2·32	— 42
27. Hyderabad, North	4·9	10·9	3·42	7·48	—4·06	— 54
28. Do., South	4·8	10·5	3·65	6·57	—2·92	— 44
29. Mysore	7·9	8·7	3·47	5·24	—1·77	— 34
30. Malabar	15·8	16·5	9·02	13·60	—4·58	— 34
31. Madras, South-east	5·0	5·5	2·95	3·61	—0·66	— 18
32. Do., Deccan	4·8	6·8	2·84	4·00	—1·16	— 29
33. Do., Coast, North	8·4	10·2	5·13	7·05	—1·92	— 27

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	14·03	16·13	—2·10	—13
Assam	18·00	16·52	+1·48	+ 9
Bengal	14·53	14·06	+0·47	+ 3
Bihar and Orissa	10·69	13·00	—2·31	—18
United Provinces	5·50	11·37	—5·87	—52
Punjab	2·58	5·32	—2·74	—52
North-West Frontier Province.	1·32	3·12	—1·80	—58

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·25	1·72	—1·47	—85
Rajputana	2·40	6·23	—3·83	—61
Bombay	5·27	9·53	—4·26	—45
Central India	5·57	10·40	—4·83	—46
Central Provinces	7·69	12·07	—4·38	—36
Hyderabad	3·53	7·05	—3·52	—50
Mysore	3·47	5·24	—1·77	—34
Madras	4·76	6·62	—1·86	—28
Mean of India	6·96	9·91	—2·95	—30

Snowfall.

I.—NORTH-WEST FRONTIER PROVINCE.

14. *Drosh* :—There were two light falls (half an inch to two inches) on the highest hill tops.

II.—KASHMIR.

(*a*) *Gulmarg* :—There was a light fall on the 21st on the surrounding higher mountains.

(*b*) *Srinagar* :—There was no snow on the surrounding mountains during the month.

(*c*) *Skardu* :—Snow fell on 5 days on the Deosai pass; the amounts were probably small as the unmelted residue at the end of the month was only half an inch.

(*d*) *Dras* :—No snow fell.

III.—UNITED PROVINCES.

Almora :—

Actual falls.

TABLE 18.

Locality.	Depth.		Descent below perpetual snow line.
	Ft.	Ins.	
Malla Danpur	0	6	1 mile.
Malla Johar	3	0	4 miles.
Malla Darma	0	½	½ mile.
Byans	1	8	1 „
Chaudas	1	5	½ „

Accumulations.

TABLE 19.

Name of pass or peak.	Depth of accumulation at the end of the month.			
	Reported.		Normal.	
	Ft.	Ins.	Ft.	Ins.
Lampia pass	9	0	6	7
Lipulekh „	7	0	4	6
Binkaru „	5	0	8	0
Milamdhura	1	6	3	8
Kaphini peak	0	1½	1	4
Pindari „	0	1½	1	4
Nandakot „	0	1½		
Pawalidwar	0	1½		

IV.—THE EASTERN HIMALAYAS.

No snow fell in Yatung or Gangtok.

Summary.

15. Little or no snow fell in Kashmir. In the Almora district the accumulations at the end of the month were below the average on the lower ranges, and above it on the higher mountains.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in August, 1920.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 13

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·553	·097	29·603	+·012	29·572	88·7	79·1	9·6	92·2	75·9	16·3	84·6	85·5	83·6	+ 1·2	77·1	80·1	80·2	79·1
	VI.—Punjab.																					
11	Lahore . . .	702	28·894	28·806	·088	28·842	+·008	29·491	98·5	80·0	18·5	105·6	75·3	30·3	89·5	97·5	88·4	+1·3	74·0	77·7	79·8	77·2
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·272	28·189	·083	28·230	+·051	29·577	92·5	73·9	18·6	100·5	70·2	30·3	84·9	91·2	81·6	− 0·7	71·1	74·6	76·3	74·0
	X.—Bombay.																					
25	Bombay . .	37	29·807	29·739	·068	29·771	+·042	29·748	85·3	77·9	7·4	87·8	75·5	11·8	81·6	83·2	80·5	+ 1·1	73·2	77·1	77·2	75·8
	XIV.—Mysore.																					
29	Bangalore . .	3,021	26·925	26·818	·107	26·880	+·036	29·719	83·3	65·5	17·8	88·3	63·3	25·0	75·2	81·2	72·5	+ 0·7	64·3	67·8	69·1	67·1
	XV.—Madras.																					
31	Trivandrum .	198	29·745	29·657	·088	29·708	+·035	29·836	82·1	73·8	8·3	83·9	72·0	11·9	79·8	80·4	76·8	−1·0		74·7	74·7	
	Pudukkottai . .	318	29·550	29·420	·130	29·485		29·727	96·3	76·1	20·2	100·4	70·7	29·7	87·7	93·1	86·2			73·8	80·2	
	Madras . . .	22	29·813	29·691	·122	29·761	+·015	29·714	95·3	78·6	16·7	101·1	74·6	26·5	88·3	89·7	85·9	+ 1·4	73·7	75·9	77·0	75·5
	Kashmir.																					
13	Srinagar . .	5,204	24·723	24·641	·082	24·682	+·014	24·653	84·8	60·5	24·3	90·8	51·5	39·2	75·8	83·6	72·7	+ 1·9	58·6	66·6	71·1	65·3
	Hill stations excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·532	25·490	·042	25·509	+·072	25·463	82·7	68·2	14·5	87·6	64·9	22·7	77·1	78·5	75·0	+ 0·5	66·1	71·2	72·5	69·9
	Kodaikanal . .	7,688	22·819	22·763	·056	22·791		22·726	63·1	51·4	11·7	66·4	49·6	16·8	60·0	57·8	57·2		48·9	55·4	55·8	56·4
	Extra India.																					
	Seychelles . .	15	30·045	29·964	·081	30·008	+·035†	29·946	80·9	76·2	4·7	82·3	73·6	8·7	79·2	80·1	77·1	+ 0·5†	70·3	74·1	74·7	73·0
	Mauritius . .	181				30·045	+·030	30·116	74·8	62·2	12·1	76·6	57·2	19·4			67·6	− 0·4				

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.

stations in India, etc., in August 1920.

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.	
·903	·964	·956	·943	−·024	91	81	79	85	−3	8·6	8·7	8·7	0	2	1	1	3	3	15	21	8	8	S 42° W	S 2° E	53	56	93	82	18·66	8·92	Calcutta.	5
																															VI.—Punjab.	
·758	·788	·779	·799	−·085	74	58	46	61	−10	1·5	2·0	1·7	−2·3	12	1	2	1	5	5	13	14	9	S 69° W	S 78° E	40	24	37	49	5·87	4·69	Lahore.	11
																															IX.—Rajputana.	
·730	·727	·724	·740	−·076	87	61	50	68	−10	4·8	5·5	5·1	−2·5	1	2	2	3	0	3	30	17	4	S 64° W	N 69° W	66	42	100	82	0·79	0·55	Jaipur.	18
																															X.—Bombay.	
·750	·868	·850	·831	−·054	79	81	75	79	−8	7·0	6·7	6·9	−1·5	0	1	0	0	0	1	13	41	6	S 85° W	S 81° W	89	79	188	270	5·18	1·01	Bombay.	25
																															XIV.—Mysore.	
·589	·594	·566	·587	−·026	94	69	54	74	−5	9·0	8·0	8·5	...	0	0	0	0	0	0	4	46	12	N 85° W	S 81° W	93	88	180	145	5·78	1·54	Bangalore.	29
																															XV.—Madras.	
	·790	·780				77	76			7·9	7·9	7·9	+1·0	1	0	0	0	0	0	0	23	38	N 62° W	N 60° W	90	78	134	159	1·92	0·82	Trivandrum.	31
	·647	·878				50	57			4·8	6·5	5·7		5	5	0	1	2	5	8	21	15	N 84° W		56		101		4·85	1·41	Pudukkottai.	
·763	·725	·755	·759	−·079	78	55	55	64	−9	5·7	6·9	6·3	−0·6	1	1	0	4	11	1	7	24	13	S 82° W	S 36° W	68	56	83	121	2·38	1·20	Madras.	
																															Kashmir.	
·479	·551	·619	·550	−·063	90	62	54	69	−11	3·0	4·0	3·5	−0·3	25	4	4	0	3	3	0	5	18	N 42° W	N 48° W	31	9	50	63	0·99	0·47	Srinagar.	
																															Hill stations excluding Kashmir and Baluchistan.	
·612	·695	·732	·680	−·002	89	75	76	81	−1	6·4	6·8	6·6	−0·5	0	0	0	29	0	2	0	31	0	S 45° W	N 66° W	5	2	12	13	7·62	1·23	Katmandu.	
·320	·393	·423	·379		85	76	89	83		7·6	9·5	8·5		1	11	2	4	1	1	0	22	20	N 51° W		63		188		6·52	2·82	Kodaikanal.	
																															Extra India.	
·661	·774	·787	·749	+·002	73	77	77	77	−1	5·6	5·6	5·6	−0·8†	0	0	0	3	46	10	0	0	0	S 40° E	S 35° E	93	89	233	231	0·93	0·33	Seychelles.	
			·513	+·006				75	+1			5·9	+0·9										S 65° E	S 66° E			235	209	2·87	0·72	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in August, 1920.

(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 2,500 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	−·006	86·9	+0·5	7[illegible]·7	+0·4	81·3	+0·5	11·2	+0·1	−12	89	− 1	·878	−·005	8·2	+0·1	14·03	16·13	−2·10
Assam	−·011	88·3	−0·3	76·5	−0·4	82·4	−0·4	11·8	+0·1	+11	90	− 1	·921	−·018	7·0	−0·8	18·00	16·52	+1·48
Bengal	+·008	88·1	+0·4	78·0	−0·1	83·1	+0·2	10·1	−0·2	−17	88	− 2	·944	−·018	7·6	+0·1	14·53	14·06	+0·47
Bihar and Orissa	+·026	88·9	+0·3	77·6	−0·2	83·2	+0·1	11·3	+0·1	0	85	− 2	·908	−·019	7·3	+0·1	10·69	13·00	−2·31
United Provinces of Agra and Oudh	+·022	91·5	+1·5	78·2	−0·1	84·9	+0·7	13·3	−0·2	+ 6	80	− 6	·883	−·055	5·1	−1·7	5·50	11·37	−5·87
Punjab	+·013	98·4	+1·7	79·2	−0·4	88·8	+0·6	19·2	+0·4	+ 1	65	− 9	·769	−·102	2·1	−2·0	2·58	5·32	−2·74
North-West Frontier Province	−·001	103·1	+3·1	79·5	−0·1	91·3	+1·5	23·6	−0·9	−16	65	− 8	·773	−·106	1·1	−1·6	1·32	3·12	−1·80
Sind	+·036	95·3	−0·1	79·8	+0·3	87·5	+0·1	15·5	+0·5	+14	72	− 4	·823	−·030	3·8	−1·0	0·25	1·72	−1·47
Rajputana	+·052	91·2	−0·9	75·4	−2·6	83·3	−1·8	15·8	+0·8	+ 4	72	− 4	·725	−·089	3·9	−2·2	2·42	6·25	−3·83
Bombay	+·042	86·6	+0·9	73·5	−0·6	80·0	+0·2	13·1	−2·1	− 5	81	− 3	·772	−·037	6·8	−0·6	[illegible]·27	9·53	−4·26
Central India	+·036	85·1	−0·2	73·4	−0·9	79·3	−0·5	11·7	−0·1	+11	85	− 5	·787	−·039	6·9	−1·3	5·57	10·40	−4·83
Central Provinces	+·046	86·0	+0·8	72·9	−0·6	79·4	+0·1	13·1	+0·5	+ 3	81	− 7	·741	−·055	6·5	−0·9	7·69	12·07	−4·38
Hyderabad	+·045	91·7	+4·7	72·8	+0·5	82·2	+2·6	18·9	+1·0	+ 6	72	− 8	·681	−·050	5·5	−1·7	3·53	7·05	−3·52
Mysore	+·028	82·3	+0·9	66·0	−0·3	74·1	+0·3	16·3	+0·8	− 9	82	− 2	·614	−·023	7·9	−0·7	3·47	5·24	−1·77
Madras	+·029	91·2	+0·7	76·4	+0·2	83·8	+0·5	14·8	−0·1	− 1	77	− 2	·795	−·021	6·2	−0·4	4·76	6·62	−1·86

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·754		29·833	29·816	7th	29·710	26th	78·9	76·2	83·7		74·9		79·3		8·8	86·4	9th	72·4	10th
	Mergui	66	29·813	—·005	29·809	29·885	7th	29·759	27th	77·9	76·5	85·0	+0·5	74·1	+1·2	79·6	+0·9	10·9	88·2	14th	72·0	9th
	Tavoy	19	29·847	—·015	29·799	29·927	7th	29·804	20th	78·1	76·5	83·5	+0·7	75·0	+1·0	79·2	+0·9	8·5	88·5	15th & 17th.	72·4	21st
	Moulmein	77	29·761	+·001	29·777	29·848	7th	29·697	27th	77·1	75·4	83·0	—0·2	75·7	+1·5	79·3	+0·7	7·3	87·4	17th	72·4	28th
	Amherst																					
	Rangoon	18	29·804	+·007	29·759	29·890	7th	29·741	22nd	79·3	77·4	86·3	+1·3	76·1	+0·2	81·2	+0·7	10·2	90·3	31st	73·3	6th
	Bassein	27	29·788	+·009	29·751	29·871	16th & 30th.	29·707	22nd & 23rd.	80·2	78·1	86·6	+1·9	75·9	0	81·2	+0·9	10·7	90·2	16th, 18th and 19th.	73·1	6th
	Diamond Island	41	29·760	—·008	29·736	29·849	8th	29·677	23rd	82·2	78·2	85·7	+1·5	77·2	+1·3	81·5	+1·4	8·5	92·0	2nd	71·1	22nd
	Toungoo	164								79·6	77·1	86·8	—0·2	73·1	—1·7	79·9	—0·9	13·7	91·5	18th	70·7	6th
	Kyaukpyu	16	29·733		29·691	29·832	17th	29·599	5th	79·2	77·5	85·1		76·6		80·8		8·5	89·9	12th	74·7	4th
	Akyab	20	29·700	—·025?	29·661	29·809	17th	29·562	5th	79·0	77·5	85·3	+0·8	75·8	—1·4	80·6	—0·3	9·5	88·9	17th	73·0	29th
3	Minbu	*165*	29·573	—·012	29·682	29·659	30th	29·477	5th	80·5	77·0	91·3	+1·0	77·9	+0·7	84·6	+0·9	13·4	98·9	17th	74·9	29th
	Yamethin	644	29·121	0	29·714	29·210	7th	29·050	23rd	79·1	76·7	90·5	+1·1	75·5	+0·9	83·0	+1·0	15·0	96·6	18th	72·7	8th
	Mandalay*	250	29·496	—·003	29·689	29·581	30th	29·423	28th	82·8	76·6	94·1	+0·8	78·9	+1·0	86·5	+0·9	15·2	100·5	17th	74·5	29th
	Monywa	*280*	29·460	—·010	29·687	29·543	7th	29·360	5th	82·2	77·1	95·1	+2·0	79·5	+1·2	87·3	+1·6	15·6	100·6	21st	75·7	29th
	Lashio	*2,890*	26·983	—·009	26·929	27·067	16th	26·887	28th	72·9	70·9	81·7	—1·1	70·1	+0·7	75·9	—0·2	11·6	86·7	28th	68·0	6th
	Bhamo	*361*	29·342	—·011	29·657	29·409	2nd	29·235	5th	77·2	76·0	87·2	—0·8	75·2	—0·1	81·2	—0·5	12·0	93·9	14th	70·9	1st
	Myitkyina	463	29·233	—·022	29·656	29·316	16th	29·150	10th	76·4	75·2	88·2	—1·1	74·9	—0·8	80·5	—0·9	11·3	93·4	29th	73·4	23rd
	II.—Assam.																					
4	Dibrugarh	353	29·321	—·029	29·634	29·405	7th	29·231	5th	78·8	77·3	87·0	+0·3	75·3	—0·4	81·2	—0·1	11·7	96·3	1st	70·9	20th
	Sibsagar	333	29·348	—·028	29·638	29·436	7th	29·242	5th	79·5	77·6	87·7	—1·1	77·8	+0·1	82·8	—0·5	9·9	93·4	2nd	75·5	20th
	Tezpur	252	29·440	0	29·649	29·534	16th	29·326	5th	79·6	77·7	88·8	+0·2	77·5	—0·1	83·1	+0·1	11·3	95·0	1st	74·1	31st
	Gauhati	196	29·495	—·010	29·645	29·586	16th	29·383	6th	81·6	78·4	90·1	+0·2	77·0	—0·8	83·6	—0·3	13·1	94·5	1st	73·5	19th
	Dhubri	115	29·559	—·002	29·628	29·649	8th	29·438	5th	80·2	77·9	85·0	—1·1	77·8	—0·7	81·4	—0·9	7·2	88·6	29th	72·3	19th
	Silchar	104	29·620	+·005	29·677	29·719	8th	29·463	5th	80·3	77·9	89·0	—0·5	76·1	—0·7	82·6	—0·6	12·9	95·7	7th	71·6	12th
	Srimangal	66	29·648		29·663	29·774	16th	29·502	5th	80·3	77·7	90·6	+1·0	74·0	—2·0?	82·3	—0·5?	16·6	94·9	27th	72·1	20th
	III.—Bengal.																					
5	Cox's Bazar	36	29·682		29·663	29·792	16th & 17th.	29·440	5th	80·4	78·1	86·0		75·8		80·9		10·2	88·3	19th	73·7	7th
	Chittagong	87	29·618	—·004	29·651	29·739	16th	29·497	5th	79·4	77·5	87·0	+1·3	76·4	+0·2	81·7	+0·7	10·6	90·1	24th	72·0	20th
	Noakhali	43	29·663	+·013	29·653	29·778	16th	29·470	6th	80·9	78·6	86·3	+0·8	78·0	+0·9	82·2	+0·9	8·3	89·3	10th	73·3	20th
	Barisal	12	29·668	+·009	29·627	29·790	16th	29·490	6th	82·7	79·7	87·2	+0·3	78·7	+0·5	82·9	+0·4	8·5	91·7	11th	76·6	21st
	Narayanganj	26	29·661	+·009	29·636	29·772	16th	29·476	6th	82·8	79·0	88·3	+0·6	78·4	—0·6	83·4	0	9·9	91·3	11th	75·2	19th

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

* Mean of 30 days.

B—*continued.*

stations in India, etc., in August, 1920—*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 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 1920.	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	1	0	1	3	5	8	6	2	S 48° W		6·4			49		88		·861		8·1		22	+0·6	17·17	25·67	−8·50	91·11	107·05	−15·94	3·29	Victoria Point.
8	0	0	7	13	3	0	0	0	S 53° E	N 87° W	4·3	1·2	+3·1	66	+ 6	94	+ 1	·893	+·018	5·2	−1·2	21	−4·4	20·05	29·55	−9·50	90·37	108·37	−18·00	2·33	Mergui.
13	1	0	0	1	5	1	0	0	S	S 62° W	1·7	1·2	+0·5	17	+ 3	92	− 1	·889	+·023	8·4	+0·5	25	−2·5	48·08	47·09	+0·99	171·10	163·29	+ 7·81	5·00	Tavoy.
6	0	2	2	6	6	7	1	1	S 4° E	S 4° W	3·0	2·8	+0·2	43	−12	92	− 1	·858	−·010	9·1	+0·7	27	−0·1	45·98	43·34	+2·64	162·42	146·22	+16·20	10·46	Moulmein.
11	1	0	0	1	8	7	1	2	S 30° W		8·1			43																	Amherst.
1	1	1	0	2	11	10	4	1	S 29° W	S 57° W	4·0	3·2	+0·8	66	+ 5	91	− 2	·915	+·005	9·1	+0·1	25	+1·0	18·47	19·74	−1·27	69·43	71·45	− 2·02	3·30	Rangoon.
16	2	0	0	0	2	8	2	1	S 59° W	S 15° W	2·9	3·1	−0·2	30	−27	90	− 4	·933	+·109	6·3	−1·4	23	−1·7	23·35	22·48	+0·87	76·93	80·57	− 3·64	3·48	Bassein.
0	0	0	0	0	3	2	7	1	S 53° W	S 46° W	8·1	6·5	+1·6	89	+14	83	− 4	·911	+·005	8·5	+0·2	18	−3·6	19·21	23·24	−4·03	88·44	84·25	+ 4·19	3·45	Diamond Island.
12	0	0	0	13	4	2	0	0	S 28° E	S 34° E	2·5	3·1	−0·6	56	−19	92	0	·924	+·016	8·9	−0·4	19	−5·4	11·27	19·36	−8·09	48·63	58·73	−10·10	0·97	Toungoo.
25	0	1	1	3	0	0	1	0	S 63° E		1·1			10		92		·916		9·0		27	−0·6	27·89	37·79	−9·90	135·22	139·88	− 4·66	3·71	Kyaukpyu.
12	0	2	3	6	4	3	1	0	S 32° E	S 39° E	2·6	2·5	+0·1	33	−21	93	− 1	·922	−·032	9·6	+0·8	27	+0·3	34·77	44·55	−9·78	182·12	157·12	+25·00	5·76	Akyab.
1	0	0	1	26	3	0	0	0	S 42° E	S 39° E	4·2	8·9	−4·7	92	0	85	0	·876	−·005	6·0	−0·9	10	−0·3	5·59	5·03	+0·56	21·09	20·55	+ 0·54	2·15	Minbu.
										S 28° E		6·1				89	+ 2	·883	+·039	7·8	+0·3	5	−5·7	3·65	5·55	−1·90	13·92	20·74	− 6·82	1·04	Yamethin.
13	0	0	0	9	6	0	0	0	S 27° E*	S 1° W	6·4†	5·8	+0·6	14	−66	75	− 4	·832	−·026	6·6	0	7	−0·5	6·73	4·29	+2·44	22·08	19·21	+ 2·87	3·19	Mandalay.
1	0	0	2	23	5	0	0	0	S 41° E		3·4			89		78	− 5	·859	−·042	9·0	+0·8	4	−1·7	3·70	4·06	−0·36	10·18	17·80	− 7·62	1·92	Monywa.
21	0	0	0	0	0	3	5	2	S 41° W		2·3			30		90	− 1	·725	−·013	9·1	+0·1	19	−0·3	8·82	12·81	−3·99	28·86	42·33	−13·47	0·91	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 89° W	0·9	1·2	−0·3			95	+ 2	·881	−·023	9·2	+0·9	18	−1·3	17·30	15·49	+1·81	40·34	53·22	−12·88	2·75	Bhamo.
31	0	0	0	0	0	0	0	0	Calm		1·6					94	+ 3	·853	−·043	9·1	+0·4	22	+2·3	23·26	16·02	+7·24	65·63	56·29	+ 9·34	3·08	Myitkyina.
																															II.—Assam.
25	0	3	0	1	0	0	0	2	N 27° E		0·4			10		94	+ 1	·914	+·003	8·0	−0·4	18	−2·2	19·17	19·24	−0·07	62·84	69·67	− 6·83	8·80	Dibrugarh.
11	1	5	1	2	8	3	0	0	S 29° E	S 1° W	2·2	2·0	+0·2	30	+14	91	− 3	·922	−·038	9·0	+0·2	18	−0·4	13·16	16·50	−3·34	54·20	59·54	− 5·34	2·30	Sibsagar.
23	0	3	4	1	0	1	0	0	N 83° E		1·1			20		91	− 2	·929	−·011	7·0	−1·2	16	−1·7	12·51	14·99	−2·48	36·78	49·39	−12·61	1·72	Tezpur.
17	0	5	6	3	0	0	0	0	N 83° E		1·1			40		86	− 2	·929	−·014	5·7	−2·4	11	−2·7	6·82	10·28	−3·46	34·87	45·66	−10·79	2·66	Gauhati.
2	0	7	7	5	6	4	0	0	S 60° E	S 69° E	3·4	3·2	+0·2	46	+14	89	− 2	·920	−·031	8·2	+0·4	16	+1·5	31·84	13·44	+18·40	87·75	68·83	+18·92	5·33	Dhubri.
28	0	2	1	0	0	0	0	0	N 59° E	S 87° E	1·8	1·8	0	7	+ 5	89	− 2	·922	−·019	6·9	−1·4	20	−2·3	21·12	20·00	+1·12	60·74	78·18	−17·44	1·95	Silchar.
																88	+ 2	·913	−·019	4·3		19	−1·6	15·86	13·22	+2·64	63·44	65·97	− 2·53	4·60	Srimangal.
																															III.—Bengal.
15	0	0	2	10	3	1	0	0	S 38° E		3·5			46		90		·933		8·0		20	−2·6	31·76	29·72	+2·04	102·29	102·96	− 0·67	5·42	Cox's Bazar.
4	0	1	8	12	3	2	1	0	S 50° E	S 41° E	3·3	4·6	−1·3	62	−10	92	+ 4	·918	+·007	7·8	0	15	−1·3	13·03	18·90	−5·87	58·46	71·40	−12·94	3·43	Chittagong.
2	0	0	0	18	9	2	0	0	S 26° E		4·2			84		90	0	·947	+·001	5·6	−0·5	18	−5·7	16·42	26·58	−10·16	67·17	84·72	−17·55	4·15	Noakhali.
3	0	1	3	8	7	6	3	0	S 7° E	S 17° E	3·4	2·6	+0·8	53	+17	87	− 2	·970	+·002	5·5	−2·2?	15	−5·2	9·04	13·50	−4·46	50·84	54·69	− 3·85	1·54	Barisal.
3	0	0	4	7	9	6	2	0	S 8° E	S 32° E	4·0	5·2	−1·2	59	− 9	84	− 6	·939	−·037	7·8	−0·8	15	−2·5	13·93	12·51	+1·42	49·83	47·68	+ 2·15	2·94	Narayanganj.

* Wind observations for 28 days.

† Mean of 26 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·618	−·001	29·633	29·743	16th	29·473	6th	81·5*	78·7*	83·7*	+1·6*	78·1*	−0·1*	83·4*	+0·7	10·5	91·8	23rd	75·9	30th
	Bogra	75	29·593	0	29·619	29·699	16th	29·452	6th	82·1	79·9	89·8	+1·3	78·3	−0·2	84·0	+0·5	11·5	93·0	12th & 18th.	75·9	19th
	Dinajpur	123	29·527	−·007	29·604	29·620	8th	29·409	6th	81·6	78·8	89·4	+0·5	78·0	−0·5	83·7	0	11·4	92·3	7th & 21st	75·0	19th
	Jalpaiguri	283	29·392	+·001	29·632	29·429	16th	29·281	5th	79·6	77·8	88·0	−0·4	77·0	−0·1	82·5	−0·3	11·0	92·8	25th, 26th & 28th.	73·4	19th
	Saugor Island	10	29·659	+·033	29·614	29·802	16th	29·484	6th	83·2	79·7	86·8	−0·7	79·7	−0·2	83·3	−0·5	7·1	90·0	16th	75·6	5th
	Midnapore	149	29·508*	+·021*	29·606*	29·642	16th	29·389	6th	81·6	77·3	89·2	−0·4	78·1	−0·2	83·7	−0·3	11·1	93·2	19th	71·7	6th
	Calcutta	21	29·638	+·016	29·606	29·771	16th	29·431	6th	81·9	79·4	88·6	+1·0	79·0	+0·6	83·8	+0·8	9·6	92·2	11th	75·9	1st
	Jessore	30	29·637	+·012	29·614	29·762	16th	29·409	6th	82·1	78·8	88·7	+0·1	78·4	−0·3	83·5	−0·1	10·3	91·7	14th	75·7	21st
	Burdwan	99	29·547	+·003	29·597	29·678	16th	29·375	6th	81·3	78·5	89·6	−0·4	78·1	−1·0	83·5	−0·7	10·9	93·1	14th	7[illegible]·2	18th
	Berhampore	67	29·591	+·012	29·607	29·711	16th	29·426	6th	81·8	79·2	89·0	+0·3	78·7	0	83·9	+0·1	10·3	91·6	18th & 20th.	75·5	21st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·609	+·020	29·604	29·738	16th	29·463	25th	81·4	78·3	88·2	+0·5	78·4	+0·1	83·5	+0·3	10·4	92·0	10th	74·2	6th & 7th
	Hukitala (False Point)	29	29·652	+·031	29·621	29·777	16th	29·414	25th													
	Cuttack	80	29·610	+·045	29·632	29·715	9th	29·461	25th	81·6	78·6	89·8	+0·5	78·0	−0·3	83·9	+0·1	11·8	93·7	16th & 22nd.	74·2	1st
	Puri	24	29·679	+·046	29·644	29·791	16th	29·529	25th	83·3	79·3	88·3	+0·5	80·1	+0·7	84·2	+0·6	8·2	92·0	21st	76·9	12th
	Angul	455	29·225	+·025	29·625	29·338	16th	29·087	26th	80·6	77·0	88·0	+0·9	76·5	−0·3	82·2	+0·3	11·5	92·8	15th & 18th.	73·4	1st
	Sambalpur	486	29·207	+·043	29·643	29·310	9th	29·025	26th	79·6	76·9	86·9	−0·2	75·5	−1·7	81·2	−0·9	11·4	95·0	18th	7[illegible]·7	1st
7	Chaibasa	733	28·912	+·023	29·592	29·038	16th	28·788	7th	79·6	76·1	88·2	−0·5	76·6	0	82·4	−0·3	11·6	94·2	19th	73·7	7th
	Ranchi	2,133	27·541	+·024	29·580	27·679	16th	27·340	7th	75·8	73·0	85·5	−1·0	72·4	−0·5	77·5	−0·7	10·1	87·9	19th	68·9	8th
	Purulia	*816*	28·844	+·032	29·607	28·959	16th	28·711	6th	80·2	76·1	90·1	+1·0	76·7	+0·2	83·4	+0·6	13·4	97·7	28th	73·0	7th
	Daltonganj	730	28·925	+·039	29·606	29·038	31st	28·758	7th	79·7	75·7	88·7	−0·7	76·6	−0·4	82·7	−0·5	12·1	95·4	18th & 19th.	70·0	31st
8	Purnea	124	29·519	−·006	29·599	29·6.2	16th	29·412	5th	81·9	79·8	89·6	+0·6	78·0	−0·5	83·7	+0·1	11·6	93·3	19th	73·8	21st & 22nd.
	Monghyr	155	29·479		29·585	29·562	17th	29·379	5th	83·1	79·1	90·3		79·0		84·7		11·3	95·2	19th	75·9	22nd
	Darbhanga	165	29·479	+·009	29·598	29·568	16th	29·377	5th	82·6	79·0	90·0	+1·3	78·6	−0·7	84·2	+0·3	11·4	94·9	19th	74·9	5th
	Pusa	188	29·445		29·587	29·534	16th	29·349	5th	83·0	80·1	91·5		78·5		85·0		13·0	95·6	19th	75·5	5th
	Patna	183	29·462	+·022	29·599	29·552	16th	29·373	5th	84·1	79·4	89·8	+0·6	79·4	−0·1	84·6	+0·3	10·4	95·5	19th	76·0	4th
	Buxar	289	29·390	+·016	29·584	29·488	16th	29·304	5th	81·4	78·6	89·5	+0·6	78·8	+0·4	84·2	+0·5	10·7	94·6	19th	73·1	23rd
	Gaya	372	29·275	+·034	29·599	29·377	16th	29·141	7th	82·3	77·9	90·0	−0·2	78·9	+0·5	84·4	+0·1	11·1	95·7	19th	75·5	31st
	Naya Dumka	489	29·160	+·016	29·598	29·264	16th	29·030	6th	82·1	78·7	89·3	+0·9	77·5	+0·1	83·4	+0·5	11·8	95·2	20th	75·0	7th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·374	+·012	29·589	29·478	16th	29·308	6th	81·8	78·7	90·4	+0·8	78·9	+0·3	84·6	+0·5	11·5	94·4	18th	76·1	31st
	Benares	267	29·[illegible]67	+·024	29·586	29·460	16th	29·285	1st	83·0	78·3	90·7	+1·1	78·4	−0·2	84·6	+0·5	12·3	96·7	18th & 19th.	73·6	31st
	Allahabad	309	29·3.8	+·049	29·611	29·446	16th	29·274	1st	82·8	77·6	90·7	+0·8	78·9	+0·3	84·8	+0·5	11·8	97·5	26th	72·6	9th
	Cawnpore	416	29·228	+·040	29·598	29·292	31st	29·161	1st	82·4	77·8	91·9	+2·5	79·1	+0·5	85·5	+1·5	12·8	99·0	28th	76·7	1st & 13th

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

* Mean of 30 days.

B—*continued.*

stations in India, etc., in August, 1920—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N. E. (26)	E. (27)	S. E. (28)	S. (29)	S. W. (30)	W. (31)	N. W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st May to 31st August 1920. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															III.—Bengal—*concld.*
28	0	0	1	2	0	0	0	0	S 59° E	S 56° E	1·1	2·6	—1·5	7	—61	88*	— 2	·949*	—·009	9·0	+0·9	19	—0·4	12·76	15·56	—2·80	42·50	64·31	—21·81	4·30	Mymensingh.
9	0	2	7	1	7	4	0	1	S 34° E	S 55° E	2·0	2·6	—0·6	33	—38	90	+ 2	·991	+·030	8·2	+0·9	16	—0·8	12·23	12·86	—0·63	41·46	48·75	— 7·29	2·06	Bogra.
4	1	2	8	5	5	2	3	1	S 49° E	S 68° E	2·6	2·8	—0·2	33	—35	88	— 2	·944	—·024	6·9	—1·1	12	— 3·7	9·76	12·95	—3·19	30·05	50·16	—20·11	2·50	Dinajpur.
20	0	4	3	2	2	0	0	0	S 85° E	N 78° E	1·0			23	—34	92	0	·936	—·012	4·8	—0·9	24	+4·2	26·69	25·12	+1·57	80·04	90·36	—10·32	6·20	Jalpaiguri.
0	1	4	1	1	6	12	3	3	S 44° W	S 10° W	9·7	6·3	+3·4	43	— 4	85	— 4	·906	—·028	8·0	—0·7	13	—3·3	10·25	14·04	—3·79	29·55	45·03	—15·48	2·25	Saugor Island.
5	4	1	1	7	8	3	0	2	S 18° E		2·6			29		81	— 6	·873	—·076	8·6	+3·3	15	—1·5	13·67	12·14	+1·53	43·38	40·14	+ 3·24	4·20	Midnapore.
1	0	2	2	2	5	14	3	2	S 35° W	S 18° E	4·0	3·4	+0·6	53	+ 6	88	— 1	·963	—·009	9·1	+0·7	18	—0·2	18·66	12·09	+6·57	40·87	42·43	— 1·56	8·92	Calcutta.
31	0	0	3	3	3	1	0	0	S 37° E	S 25° E	1·6	2·7	—1·1	23	—27	86	— 4	·942	—·052	8·3	+0·2	13	—3·9	11·34	10·89	+0·45	35·12	44·39	— 9·27	5·28	Jessore.
14	2	1	0	3	3	5	3	0	S 33° W	S 32° E	1·6	2·5	—0·9	23	— 9	88	0	·939	—·020	8·6	+0·1	13	—2·6	11·19	11·07	+0·12	29·37	40·13	—10·76	2·65	Burdwan.
9	0	2	4	3	9	3	1	0	S 20° E	S 79° E	5·2	2·9	+0·3	43	+ 3	88	— 3	·957	—·029	8·2	—0·5	13	—3·4	13·85	11·56	+2·29	37·21	37·95	— 0·74	5·31	Berhampore.
																															IV.—Bihar and Orissa.
1	4	0	0	1	10	13	1	1	S 34° W	S 41° W	3·6	3·1	+0·5	59	+19	87	0	·925	—·027	7·0	+1·1	9	—5·3	9·49	11·25	—1·76	34·80	36·95	— 2·15	3·26	Balasore.
2	1	1	0	1	6	10	8	2	S 55° W		9·2			59	— 2					8·0	—0·3	11	—4·0	17·79	12·06	+5·13	43·97	37·71	+ 6·26	3·66	Hukitala (False Point).
10	0	0	0	0	0	10	9	2	S 72° W	S 66° W	2·1	2·0	+0·1	59	+12	87	+ 4	·932	+·026	7·0	—0·3	13	—2·9	7·28	13·65	—6·37	39·71	39·22	+ 0·49	1·71	Cuttack.
2	3	1	0	0	6	10	5	4	S 63° W		8·4			48		83	— 3	·945	—·021	5·7	—1·2	9	—4·0	5·50	12·25	—6·75	32·21	32·14	+ 0·07	1·17	Puri.
1	1	2	0	2	1	4	6	14	S 66° W		5·5			55		84	— 2	·882	—·006	7·8	+2·2	11	—3·2	12·14	10·34	+1·80	38·76	31·01	+ 7·75	1·83	Angul.
0	1	1	1	1	2	20	2	3	S 51° W	S 30° W	3·6	3·2	+0·4	66	+ 6	88	+ 3	·892	+·009	8·4	+0·4	17	—2·0	21·82	18·80	+3·02	65·68	50·38	+15·30	6·72	Sambalpur.
12	0	1	1	0	1	16	0	0	S 40° W	S 54° W	2·1	1·3	+0·8	46	+13	85	— 1	·857	+·015	7·2	+0·1	14	—2·5	13·55	11·52	+2·03	57·14	35·09	+22·05	7·30	Chaibasa.
0	2	2	0	3	2	5	9	8	N 84° W	S 56° W	4·1	5·3	—1·2	49	+35	87	— 2	·778	—·016	8·2	—0·1	18	—0·7	17·89	12·79	+5·10	54·55	39·53	+15·02	2·80	Ranchi.
15	1	0	0	2	1	4	6	2	S 72° W		0·8			29		82	— 8	·842	—·071	6·2	—0·2	13	—3·9	12·92	11·45	+1·47	39·08	34·32	+ 4·76	6·75	Purulia.
13	1	4	1	2	1	7	2	0	S 34° W		3·4			13		83	— 3	·834	—·059	6·5	+0·9	14	—2·2	14·94	12·29	+2·65	65·52	29·56	+35·96	5·82	Daltonganj.
4	4	3	7	4	1	4	3	1	N 88° E	S 89° E	2·1	2·2	—0·1	17	—37	90	— 1	·987	+·003	6·1	—1·2	17	+0·8	9·67	13·93	—4·26	22·83	43·44	—20·61	1·43	Purnea.
13	0	1	2	5	9	3	7	0	S 31° W		2·2			19		84		·937		3·6		10	—5·4	7·58	14·94	—7·36	22·91	36·54	—13·63	1·39	Monghyr.
27	0	0	4	0	0	0	0	0	E	S 74° E	2·5	3·2	—0·7	13	—51	85	— 4	·944	—·032	8·2	+1·1	14	—0·5	4·96	14·43	—9·47	19·12	37·38	—18·26	1·03	Darbhanga.
5	0	1	8	4	1	5	6	1	S 9° E		2·8			19		88		·985		5·3		10	—4·7	7·99	16·27	—8·28	14·39†	38·44	—24·05	2·36	Pusa.
6	1	0	9	0	0	3	11	1	S 85° W	S 78° E	3·9	3·2	+0·7	15	—39	80	— 7	·957	—·042	8·2	—0·3	12	—1·8	4·14	13·57	—9·43	19·25	35·31	—16·06	1·04	Patna.
3	0	1	4	2	0	11	9	1	S 54° W		3·8			45		87	— 1	·934	—·019	6·7	—0·6	9	—5·1	6·30	12·08	—5·78	26·98	28·68	— 1·70	1·62	Buxar.
0	1	2	2	1	1	17	6	1	S 54° W	S 52° E	3·5	2·7	+0·8	59	+40	81	— 5	·895	—·040	6·3	—0·5	10	—5·0	12·22	13·23	—1·01	44·04	33·96	+10·08	4·10	Gaya.
20	0	0	0	2	0	0	0	0	S 45° E		2·0			3		85	— 3	·934	—·001	7·5	+0·6	17	—0·7	9·60	12·98	—3·38	40·71	40·09	+ 0·62	1·65	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
13	0	1	9	2	0	0	5	1	E	S 88° E	1·3	1·6	—0·3	17	—19	87	— 1	·938	—·021	3·3	—3·2	9	—6·2	7·38	14·50	—7·12	35·61	36·46	— 0·85	4·40	Gorakhpur.
2	1	1	0	6	0	13	4	4	S 52° W	S 54° E	3·0	3·0	0	46	+35	80	— 7	·902	—·056	7·1	—0·9	9	—5·7	8·33	11·51	—3·18	33·25	28·41	+ 4·84	1·74	Benares.
7	0	1	3	0	0	4	15	1	S 84° W	N 79° W	4·4	4·8	—0·4	49	+45	79	— 7	·875	—·070	7·4	—1·1	7	—6·9	4·96	11·70	—6·74	31·16	28·28	+ 2·88	2·35	Allahabad.
0	3	2	3	0	5	7	9	2	S 69° W	S 2° W	2·7	2·9	—0·2	40	+33	81	—10	·890	—·056	4·1	—2·3	6	—6·9	2·65	11·80	—9·15	21·11	25·40	— 4·29	0·80	Cawnpore.

* Mean of 30 days.
† Rainfall for July wanting.

Table

(2) Abstract of observations taken at 8 hrs. at 212

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Mean 8 hrs. pressure reduced to 32°.	Pressure, 8 hrs., in inches. Departure from normal.	Mean 8 hrs. pressure reduced to sea-level and 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
	V.—United Provinces of Agra and Oudh—*concld.*																					
	Lucknow	368	29·257	+·021	29·580	29·338	16th	29·176	5th	83·2	78·8	92·2	+1·8	76·9	−1·6	84·5	+0·1	15·3	99·0	26th	73·5	31st
	Bahraich	407	29·207	+·005	29·576	29·290	16th	29·134	5th	81·6	78·1	90·2	+0·3	78·2	−0·1	84·3	+0·1	12·2	95·2	25th	73·2	31st
10	Jhansi	824	28·835	+·030	29·613	28·934	16th	28·732	1st	80·8	75·0	90·2	+1·2	76·3	−1·1	83·3	+0·1	13·9	98·7	26th	71·1	1st
	Agra	556	29·079	+·028	29·587	29·162	16th	28·995	29th	85·5	77·9	94·9	+3·5	79·0	−0·2	87·0	+1·7	15·9	102·1	30th	76·8	1st & 2nd.
	Mainpuri	516	29·105	+·020	29·575	29·192	16th	29·027	29th	83·1	76·9	93·1	+1·8	78·5	−0·1	85·8	+0·9	14·6	100·0	26th	75·4	31st
	Bareilly	568	29·042	+·006	29·556	29·114	9th	28·959	5th	82·6	78·2	91·3	+1·4	79·0	+1·0	85·1	+1·2	12·3	96·5	26th	76·1	23rd
	Roorkee	899	28·716	+·006	29·572	28·791	16th	28·622	5th	81·5	77·5	90·9	+0·9	77·2	+0·2	84·0	+0·5	13·7	95·6	26th	75·0	2nd & 18th.
	VI.—Punjab.																					
11	Delhi	718	28·913	+·030	29·589	29·002	17th	28·834	5th	82·3	74·9	94·0	+2·2	79·9	+0·3	87·0	+1·3	14·1	101·0	30th	76·8	7th
	Hissar	725	28·905	+·047	29·586	29·069	31st	28·744	24th	85·0	74·6	99·9	+1·8	78·6	−1·9	89·3	−0·1	21·3	105·9	30th	74·2	23rd
	Patiala	*818*	28·774	−·003	29·546	28·907	17th	28·619	21st	84·4	77·5	95·1	+3·1	79·8	+1·3	87·5	+2·2	15·3	101·7	30th	75·0	2nd
	Ambala	892	28·711	+·010	29·558	28·792	16th	28·610	5th	83·9	76·4	96·8	+4·8	78·3	+1·1	87·8	+2·9	18·0	104·6	30th	75·4	7th
	Ludhiana	812	28·787	+·010	29·556	28·879	17th	28·691	5th	84·0	75·2	97·7	+3·4	80·3	+1·2	89·0	+2·3	17·4	105·3	30th	74·6	2nd
	Lahore	702	28·880	+·011	29·543	29·003	16th	28·770	11th	84·4	75·9	98·4	+0·6	79·9	+1·0	89·2	+0·8	18·5	105·6	29th	75·3	17th
	Sialkot	830	28·746	−·007	29·538	28·881	16th	28·641	11th	82·7	76·8	95·0	+0·6	77·5	−0·8	86·2	−0·1	17·5	101·7	30th	73·9	22nd
	Rawalpindi	1,674	27·937	+·002	29·537	28·072	16th	27·827	11th	83·5	74·3	97·4	+3·7	75·4	0	86·4	+1·9	22·0	105·4	11th	67·8	19th
12	Khushab	612	28·977	+·022?	29·549	29·107	2nd	28·855	11th	87·5	76·2	102·0	+1·3	79·2	−2·2	90·6	−0·5	22·8	107·2	26th, 28th & 30th.	72·2	2nd
	Lyallpur	605	28·968		29·534	29·099	16th	28·848	11th	85·0	74·9	100·3		79·7		90·0		20·6	106·0	29th	73·5	17th
	Montgomery	558	29·017	+·013	29·536	29·146	16th	28·904	11th	86·4	75·1	101·0	−0·8	80·2*	−1·9*	90·6*	−1·3*	20·8	106·1	29th	76·3	24th
	Multan	426	29·126	+·004	29·513	29·244	16th	29·002	11th	85·8	77·8	100·4	−0·8	81·8	−0·8	91·1	−0·8	18·6	105·6	29th	77·7	2nd
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·466	−·011	29·533	28·592	16th	28·319	11th	83·8	74·2	104·5	+5·3	77·5	−0·5	91·0	+2·4	27·0	110·4	11th	71·9	23rd
	Dera Ismail Khan	590	28·986	+·010	29·538	29·110	16th	28·855	11th	86·0	77·4	101·7	+0·8	81·5	+0·3	91·6	+0·5	20·2	106·4	26th	76·3	2nd
	VIII.—Sind.																					
16	Jacobabad	186	29·395	+·034	29·538	29·521	17th	29·267	11th	86·2	77·2	104·5	−0·1	81·3	−0·6	92·9	−0·3	23·2	109·7	12th	77·8	28th
	Hyderabad	96	29·516	+·030	29·567	29·631	17th	29·406	11th	83·3	75·2	95·6	−0·3	78·8	−0·2	87·2	−0·3	16·8	100·8	8th	75·0	27th
	Karachi	13	29·666	+·045	29·630	29·770	17th	29·560	11th	81·6	77·4	85·7	+0·2	79·3	+1·6	83·5	+0·9	6·4	88·2	27th	77·5	30th
	IX.—Rajputana.																					
17	Bikaner	771	28·880	+·058	29·608	29·005	16th	28·783	11th	82·5	75·3	96·8	−0·7	77·6	−3·4	87·2	−2·1	19·2	103·4	29th	73·3	5th
	Jodhpur	780	28·911	+·059	29·648	29·017	16th	28·810	1st	79·7	72·3	92·0	−1·3	74·8	−3·2	83·4	−2·3	17·2	102·5	28th	72·6	8th
18	Jaipur	1,431	28·263	+·046	29·637	28·361	16th & 17th.	28·150	1st	79·9	73·0	92·0	+0·6	74·0	−2·4	82·9	−0·9	18·0	100·5	27th	70·2	22nd
	Ajmer	1,611	28·089	+·041	29·643	28·196	16th	27·988	1st	75·6	70·5	86·0	−2·0	74·4	−1·5	80·2	−1·7	11·6	95·4	28th	72·0	5th & 7th.
	Kotah	832	28·849	+·055	29·634	28·952	16th	28·725	1st	81·1	74·2	89·4	−1·1	76·4	−2·5	82·9	−1·8	13·0	96·6	27th	70·0	9th.

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

* Mean of 30 days.

B—*continued.*

stations in India, etc., in August, 1920—*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 1922.	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.*
21	0	1	0	5	0	0	0	4	E	S 88° E	1·3	2·1	−0·8	5	−21	82	− 5	·932	−·019	5·6	−1·8	9	−4·1	3·85	11·28	−7·43	25·31	28·04	−2·73	0·95	Lucknow.
18	1	0	5	1	0	0	6	0	N 45° W	S 70° E	2·0	2·0	0	1	−47	85	− 2	·910	−·048	3·3	−2·3	12	−1·6	11·16	14·15	−2·99	42·19	32·40	+9·79	2·80	Bahraich.
4	0	0	1	0	3	8	6	1	S 55° W*	S 85° W	4·7†	2·8	+1·9	61	+25	76	− 7	·792	−·088	5·2	+0·2	6	−7·4	6·66	10·90	−4·24	17·43	27·18	−9·75	1·96	Jhansi.
9	0	2	0	0	3	12	4	1	S 52° W	S 40° W	2·3	3·6	−1·3	49	+20	69	−12	·834	−·075	4·6	−2·0	4	−5·8	2·99	7·84	−4·85	17·85	19·82	−1·97	1·10	Agra.
4	2	0	3	3	0	1	9	9	N 64° W	S 13° W	1·7	1·2	+0·5	40	+34	75	− 9	·852	−·083	5·7	−1·1	6	−4·7	2·00	9·00	−6·10	20·67	18·90	+1·77	0·85	Mainpuri.
19	0	0	2	3	1	1	3	2	S 23° W	S 71° E	0·7	1·9	−1·2	7	−15	81	− 7	·907	−·029	6·1	−0·9	7	−5·5	4·07	12·89	−8·82	26·30	32·12	−5·82	1·10	Bareilly.
23	0	0	0	6	0	0	0	3	S 45° E	S 36° E	1·6	1·8	−0·2	10	−22	83	− 2	·885	+·001?	3·6	−2·9	9	−2·9	5·66	12·09	−6·43	33·88	29·97	+6·91	1·68	Roorkee.
																															VI.—Panjab.
4	0	1	1	1	1	1	13	9	N 75° W	S 27° W	2·9	2·8	+0·1	59	+41	70	− 9	·767	−·108	2·7	−3·9	3	−6·1	4·90	7·36	−2·46	21·34	18·71	+2·63	2·44	Delhi.
0	0	0	1	3	2	10	14	1	S 61° W	S 43° W	6·1	4·6	+1·5	69	+29	60	−11	·713	−·145	2·3	−1·5	1	−4·2	0·84	3·44	−2·60	5·63	9·70	−4·07	0·84	Hissar.
3	1	0	0	8	1	0	18	1	S 69° W		3·6			45		73	10	·851	−·086	3·3	−2·4	5	−3·5	3·75	6·78	−3·03	16·95	15·69	+1·26	1·50	Patiala.
5	1	0	4	5	0	0	10	6	N 75° W	S 51° E	3·6	0·9	+2·7	23	− 1	70	−17	·803	−·130	3·9	−2·0	4	−5·0	2·46	7·77	−5·31	12·85	19·88	−7·03	1·13	Ambala.
24	1	0	0	2	0	0	2	2	N 63° W	S 29° E	1·3	1·3	0	7	−32	65	−15	·753	−·140	2·2	−3·4	4	−3·8	2·32	7·04	−4·72	14·05	18·22	−4·17	0·80	Ludhiana.
6	0	3	1	2	3	7	6	[illegible]	S 59° W	S 41° E	1·6	2·0	−0·4	33	− 7	67	− 8	·783	−·122	1·9	−1·9	4	−1·6	5·87	5·22	+0·65	7·71	13·06	−5·35	4·69	Lahore.
7	2	7	3	8	1	1	[illegible]	1	N 88° E	N 88° E	1·8	1·8	0	36	−11	76	− 3	·845	−·051	2·0	−2·1	4	−5·0	3·50	8·79	−5·29	13·70	19·93	−6·23	2·61	Sialkot.
14	3	5	1	4	1	2	0	1	N 69° E	S 82° E	1·8	1·2	+0·6	17	−12	65	−13	·735	−·097	1·7	−2·9	6	−3·0	4·50	8·64	−4·14	11·09	19·69	−8·60	1·50	Rawalpindi.
9	3	6	6	2	2	2	0	1	N 72° E	N 68° E	4·6	4·5	+0·1	30	−27	58	−11	·754	−·115	1·5	−1·0	2	−1·2	0·88	2·93	−2·05	5·47	8·93	−3·46	0·62	Khushab.
2	0	1	2	2	6	18	0	0	S 24° W		2·8			69		61		·729		1·9		5	+1·9	3·17	2·79	+0·38	5·26	8·28	−3·02	1·33	Lyallpur.
0	1	2	1	0	12	12	3	0	S 27° W	S 12° W	5·6	6·0	−0·4	66	+12	56	− 6	·730	−·087	1·3	−1·2	2	−1·7	0·39	3·13	−2·74	1·93	6·77	−4·79	0·28	Montgomery.
4	1	2	0	0	5	16	0	3	S 45° W	S 14° E	1·8	2·1	−0·3	56	+13	69	+ 1	·846	−·021	1·6	−0·3	1	−1·3	1·11	1·79	−0·68	4·13	4·79	−0·66	1·07	Multan.
																															VII.—North-West Frontier Province.
25	5	1	0	0	0	0	0	0	N 7° E	N 10° W	0·5	2·6	−2·1	20	−23	63	− 7	·723	−·102	0·6	−2·7	0	−2·3	0·05	1·93	−1·88	0·85	4·54	−3·69	0·05	Peshawar.
20	0	6	0	5	0	0	0	0	N 85° E	N 72° E	1·7	1·5	+0·2	27	− 9	66	− 9	·822	−·110	1·6	−0·5	1	−1·2	1·22	1·94	−0·72	7·87	5·21	+2·66	1·22	Dera Ismail Khan.
																															VIII.—Sind.
1	0	1	0	29	0	0	6	0	S 47° E	S 41° E	3·5	3·1	+0·4	96	+26	65	− 7	·809	−·104	0·6	−1·6	0	−1·5	0	0·92	−0·92	1·83	2·22	−0·39	0	Jacobabad.
0	0	0	0	0	4	23	4	0	S 45° W	S 43° W	11·2	11·9	−0·7	92	+ 6	69	− 1	·778	−·007	3·1	−1·4	1	−1·2	0·40	2·01	−1·61	1·27	5·64	−4·37	0·40	Hyderabad.
0	0	0	0	0	0	15	16	0	S 68° W	S 76° W	13·8	12·0	+1·8	96	+10	82	− 3	·883	+·021	7·6	+0·1	0	−1·7	0·09	1·44	−1·35	1·37	5·57	−4·20	0·04	Karachi.
																															IX.—Rajputana.
0	0	1	0	0	6	20	3	1	S 42° W	S 36° W	7·6	5·6	+2·0	82	+ 2	71	+ 2	·777	−·058	1·7	−2·5	1	−3·6	0·76	3·26	−2·50	12·34	8·40	+3·94	0·76	Bikaner.
0	1	0	0	0	2	25	3	0	S 47° W		4·4			92		69	− 7	·701	−·100	5·8	−1·5	2	−3·2	0·60	4·08	−3·48	10·45	9·35	+1·10	0·40	Jodhpur.
1	0	1	1	0	1	11	12	4	S 76° W	N 86° W	4·1	3·4	+0·7	69	+12	71	− 8	·717	−·101	4·6	−2·4	2	−8·1	0·79	7·78	−6·99	29·46	18·40	+11·06	0·55	Jaipur.
3	1	0	0	0	0	14	13	0	S 69° W	S 85° W	4·7	5·0	−0·3	79	− 3	78	− 5	·681	−·131	3·3	−3·2	6	−2·4	2·47	6·68	−4·21	20·79	15·91	+4·88	0·88	Ajmer.
1	0	0	0	0	0	14	12	4	S 74° W		1·7			86		71	− 3	·751	−·054	4·2	−1·6	4	−5·5	4·24	7·98	−3·74	21·55	20·33	+1·22	2·23	Kotah.

* Wind observation for 23 days.
† Mean of 22 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·269	+·059	29·690	29·365	31st	29·152	3rd	78·4	74·2	90·4	+1·3	73·9	−1·9	82·2	−0·3	16·5	97·9	27th	70·0	22nd
	Bhuj	334	29·380	+·045	29·665	29·457	31st	29·286	1st	80·1	76·5	88·3	−0·3	75·3	−1·0	81·8	−0·7	13·0	92·7	27th	73·5	25th
	Jamnagar	61																				
	Dwarka	37	29·710	+·045	29·693	29·802	17th	29·614	1st	80·5	75·6	85·4	+0·9	78·5	+0·4	82·0	+0·7	6·9	87·3	27th & 29th.	76·6	3rd
	Rajkot	429	29·311	+·036?	29·690	29·394	17th	29·212	1st	79·1	74·5	90·0	+1·2	75·0	+0·5	82·5	+0·9	15·0	93·6	24th & 27th.	71·9	21st
	Veraval	*18*	29·760	+·042	29·721	29·826	17th	29·671	1st	79·7	76·7	82·6	+0·2	78·6	+0·8	80·6	+0·5	4·0	84·1	17th	76·4	4th
	Bhavnagar Para	55	29·720	+·051	29·721	29·792	17th	29·618	1st	81·0	75·2	91·5	0	75·1	−1·7	83·3	−0·9	16·4	90·0	23rd	72·8	21st & 26th.
	Surat	39	29·748	+·046	29·730	29·823	31st	29·656	1st	79·9	76·4	86·3	−0·4	76·3	−0·4	81·3	−0·4	10·0	89·6	25th	73·2	1st
	Ahmadabad	163	29·603	+·064	29·716	29·689	31st	29·402	1st	80·6	76·3	92·8	+3·1?	75·3	−1·8	84·1	+0·7?	17·5	98·2	23rd	73·9	1st
25	Bombay	37	29·792	+·036	29·769	29·855	9th	29·711	1st	80·0	76·1*	85·2	+1·0	77·8	+0·7	81·5	+0·9	7·4	87·3	25th	75·5	2nd & 8th
	Ratnagiri	207	29·646	+·028	29·794	29·719	9th	29·593	29th	79·0	75·0	83·5	−0·2	75·5	+0·1	79·5	−0·1	8·0	85·3	25th	72·7	16th
	Marmagao	60	29·820	+·025	29·814	29·878	9th	29·779	28th	78·4	76·5	83·2	−0·2	74·8	−1·0	79·0	−0·6	8·4	85·7	13th	72·3	21st & 25th.
	Karwar	44	29·838	+·018?	29·817	29·907	9th	29·797	27th	77·1	75·1	82·9	+0·5	74·6	−0·1	78·8	+0·2	8·3	85·2	10th	72·8	21st
26	Malegaon	1,430	28·356	+·046	29·726	28·445	31st	28·267	1st	78·0	70·7	88·8	+1·9	71·0	−0·9	80·0	+0·5	17·8	93·3	6th	66·3	24th
	Ahmadnagar	2,154	27·674	+·036	29·742	27·743	9th	27·595	1st	74·5	68·6	88·2	+3·4	67·5	−1·5	77·9	+0·9	20·7	92·8	27th	63·7	11th
	Poona	1,846	27·997	+·054?	29·782	28·069	9th	27·9.6	1st	73·7	69·5	82·3	+0·6	68·1	−1·5	75·2	−0·5	14·2	86·0	27th	62·9	9th
	Sholapur	1,590	28·230	+·032	29·751	28·311	9th	28·171	27th	76·7	68·7	91·9	+3·1	70·6	−0·2	81·2	+1·5	21·3	95·5	10th	68·5	28th
	Bijapur	*1,948*	27·891	+·034	27·764	27·969	9th	27·842	27th	74·4	69·1	88·4	+1·9	68·7	−1·1	78·5	+0·4	19·7	9.·6	9th, 10th & 26th.	66·9	24th
	Belgaum	2,562	27·329	+·036	29·808	27·399	9th	27·291	28th	69·3	67·3	77·1	+0·8	66·0	−0·3	71·5	+0·3	11·1	80·5	19th	64·6	26th
	XI.—Central India.																					
20	Neemuch	1,626	28·096	+·029	29·663	28·193	31st	27·985	1st	75·8	73·4	84·0	−0·9	71·4	−1·2	77·7	−1·1	12·6	91·9	26th	69·8	24th
	Indore	1,823	27·933	+·044	29·695	28·036	31st	27·819	27th	74·5	71·3	83·1	+0·5	70·4	−1·0	76·7	−0·2	12·7	89·5	18th	66·1	28th
21	Nowgong	754	28·904	+·035	29·613	29·003	16th	28·812	1st	79·1	75·1	87·9	0	75·9	−1·1	81·9	−0·5	12·0	95·6	26th	71·1	9th
	Sutna	1,041	28·611	+·037	28·599	28·710	16th	28·502	8th	79·6	75·0	85·6	−0·4	75·9	−0·3	80·7	−0·3	9·7	92·3	26th	69·8	9th
	XII.—Central Provinces.																					
22	Buldana	2,134								73·3	68·9	83·9	+2·0	68·9	−0·6	76·4	+0·7	15·0	88·4	26th	66·3	11th
	Akola	925	28·844	+·049	29·718	28·932	31st	28·729	27th	78·0	72·3	90·9	+3·8	73·7	+0·3	82·3	+2·1	17·2	96·6	18th	68·8	28th
	Amraoti	1,215	28·539	+·045	29·701	28·632	31st	28·406	27th	77·3	71·6	88·0	+1·8	73·0	+0·3	80·5	+1·1	15·0	94·6	19th	70·4	27th
23	Khandwa	1,044	28·708	+·047	29·706	28·808	31st	28·544	27th	77·2	72·4	86·7	+1·0	72·6	−1·6	79·6	−0·3	14·1	93·8	26th	67·7	28th
	Hoshangabad	1,006	28·729	+·052	29·687	28·828	31st	28·491	27th	76·6	73·8	85·0	−0·1	72·5	−1·5	78·7	−0·8	12·5	91·1	17th & 26th.	67·4	28th
	Saugor	1,807	27·869	+·05??	29·611	27·989	31st	27·739	27th	74·5	71·0	84·4	+0·8	71·4	−1·5	77·9	−0·3	13·0	91·2	18th	67·4	9th
	Jubbulpore	1,327	28·353	+·031	29·623	28·435	31st	28·205	27th	76·8	72·8	84·2	−0·5	74·0	+0·1	79·1	−0·2	10·2	91·8	25th	68·9	9th
	Seoni	2,033	27·705	+·051	29·662	27·791	31st	27·542	27th	75·3	71·0	82·2	−0·9	70·9	−0·8	76·6	−0·9	11·3	87·6	17th	66·3	9th
	Nagpur	1,017	28·728	+·061	29·689	28·822	9th	28·589	27th	79·2	72·8	88·8	+1·9	74·4	−0·2	81·6	+0·9	14·4	95·2	18th	69·6	9th
24	Pendra	2,040	27·674	+·054	29·636	27·780	16th	27·408	26th	75·4	71·7	81·6	−1·7	71·9	−0·7	76·8	−1·2	9·7	86·9	16th	65·8	9th

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

B—*continued.*

stations in India, etc., in August, 1920—*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 1920.	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.
1	0	0	0	0	4	19	5	2	S 51° W	S 71° W	6·4	8·8	−2·4	82	+ 7	82	− 2	·791	−·052	6·7	−1·7	5	−3·9	2·24	7·61	−5·37	19·53	19·30	+ 0·23	0·92	Deesa.
0	0	0	0	0	0	15	16	0	S 68° W	S 76° W	8·6	11·5	−2·9	96	+ 6	84	+ 1	·858	−·001	6·8	−0·5	3	−0·8	2·97	2·89	+ 0·08	10·48	11·71	− 1·23	2·07	Bhuj.
0	0	0	0	0	4	20	7	0	S 49° W		8·8			90						4·9	−0·2	4	−2·1	1·75	5·23	−3·48	35·10	15·62	+19·48	0·75	Jamnagar.
0	0	0	0	0	1	19	11	0	S 60° W		13·7			89		79	− 7	·813	−·089	4·9	−3·1?	2	−2·4	1·70	2·87	−1·17	9·73	12·46	− 2·73	0·89	Dwarka.
0	0	0	0	0	4	24	3	0	S 43° W	S 77° W	9·9	9·1	+0·8	92	+ 2	80	− 4	·791	−·047	6·3	−1·1	3	−4·5	1·34	5·59	−4·25	20·62	21·34	− 0·72	0·40	Rajkot.
0	1	0	0	1	2	5	21	1	S 80° W	S 77° W	10·5*	8·6	+1·9	82	0	87	− 2	·877	−·012	7·3	−0·8	5	−0·9	1·46	3·74	−2·28	18·35	15·21	+ 3·14	0·51	Veraval.
1	0	0	0	0	0	12	17	1	S 73° W	S 48° W	5·1	8·6	−3·5	88	− 2	75	− 5	·793	−·058	6·6	−0·9	2	−6·0	0·73	5·97	−5·24	22·80	17·81	+ 4·99	0·32	Bhavnagar Para.
10	0	0	0	3	4	7	5	2	S 44° W	S 66° W	3·5	7·2	−3·7	46	−34	85	0?	·865	−·023	7·9	0	10	−2·4	4·79	7·35	−2·56	25·79	33·14	− 7·35	1·95	Surat.
3	0	0	0	4	3	2	1	0	S 32° W	S 63° W	2·7	3·6	−0·9	76	+ 4	81	− 2	·850	−·005	5·0	−3·4?	6	−4·3	1·30	8·05	−6·75	24·35	24·64	− 0·29	0·33	Ahmadabad.
0	0	0	0	1	1	9	19	1	S 74° W	S 77° W	8·0	11·2	−3·2	86	+ 3	83	− 4	·849	−·034	7·5	−1·4	13	−6·1	5·18	13·71	−8·53	35·34	58·12	−22·78	1·01	Bombay.
7	1	0	0	0	1	6	12	4	S 86° W	S 74° W	7·5	6·9	+0·6	62	− 6	83	− 5	·814	−·058	7·6	−0·6	22	−1·7	14·00	19·57	−5·57	50·14	83·84	−33·70	2·63	Ratnagiri.
5	0	3	0	0	2	0	20	1	N 88° W	N 56° W	7·1	8·2	−1·1	62	−15	92	+ 1	·897	−·007	8·8	+0·2	24	+1·8	15·37	15·58	−0·21	67·02	79·53	−12·51	3·51	Marmagao.
27	0	0	0	0	1	3	0	0	S 34° W	N 81° W	2·1	3·1	−1·0	13	−34	91	+ 4	·842	+·005	8·3	+0·9	28	+4·2	15·87	21·65	−5·78	71·06	100·92	−29·86	2·50	Karwar.
0	1	0	0	0	2	18	10	0	S 60° W	S 78° W	8·6	9·3	−0·7	89	+ 3	69	− 8	·659	−·064	6·6	0	3	−2·9	1·58	3·34	−1·76	5·66	13·76	− 8·10	0·48	Malegaon.
0	1	0	0	0	1	7	12	10	N 85° W	S 86° W	7·5	13·5	−6·0	79	+ 4	73	− 7	·620	−·064	3·9	−2·5?	3	−2·3	0·80	2·64	−1·84	3·24	12·39	− 9·15	0·25	Ahmednagar.
1	0	0	0	0	0	2	19	9	N 75° W	S 83° W	7·9	10·8	−2·9	92	+ 2	81	− 3	·670	−·024	9·4	+1·4?	6	−2·9	1·93	3·78	−1·85	12·47	17·23	− 4·76	0·49	Poona.
0	0	0	0	0	0	5	10	16	N 75° W	S 83° W	11·1	9·3	+1·8	86	+ 2	66	−10	·601	−·080	6·0	−1·5	2	−5·9	2·04	5·11	−3·07	5·46	15·22	− 9·76	1·87	Sholapur.
0	1	0	0	0	0	5	18	7	N 85° W	S 82° W	6·4	7·8	−1·4	86	+ 1	76	− 5	·645	−·044	4·7	−2·5	3	−1·7	1·70	2·51	−0·81	6·66	9·30	− 2·64	0·95	Bijapur.
11	0	0	0	0	0	9	10	1	S 72° W	S 83° W	4·6	15·7	−11·1	59	−32	92	0	·658	−·015	9·5	+0·7	9	−8·2	4·45	9·84	−5·39	30·23	37·55	− 7·32	1·12	Belgaum.
																															XI.—Central India.
0	1	0	0	0	0	0	30	0	N 88° W	S 75° W	7·5	8·0	−0·5	90	+15	89	+ 3?	·789	+·005	7·3	+0·1	6	−3·7	3·51	8·67	−5·16	29·89	21·84	+ 8·05	1·63	Neemuch.
3	0	0	0	0	0	3	16	9	N 80° W	S 85° W	5·9	4·2	+1·7	70	− 3	86	− 3	·723	−·037	9·1	−0·1	10	−0·6	5·51	7·63	−2·12	30·60	23·42	+ 7·18	1·35	Indore.
0	1	1	2	0	0	6	17	4	N 89° W	S 89° W	2·8	2·3	+0·5	69	+18	82	− 5	·820	−·065	6·3	−1·9	8	−5·4	7·49	13·09	−5·60	21·07	33·16	−12·09	1·59	Nowgong.
3	0	2	1	[illegible]	2	8	11	3	S 73° W	S 89° W	3·5	5·6	−2·1	53	+12	81	− 6	·815	−·061	5·1	−3·2	7	−7·5	5·00	12·38	−7·38	28·87	32·30	−3·43	1·97	Sutna.
																															XII.—Central Provinces.
0	0	0	0	0	0	7	16	8	N 88° W		6·8	6·3	+0·5	84		90		·651		7·0		7	−5·0	1·85	7·03	−5·18	18·08	23·21	− 5·13	0·50	Buldana.
0	0	0	0	0	0	3	18	10	N 80° W	N 73° W	7·1	6·3	+0·8	89	+ 3	75	− 7	·715	−·053	6·6	−1·4	5	−4·8	2·34	6·75	−4·41	8·50	22·04	−13·54	0·88	Akola.
0	0	1	0	0	0	3	13	14	N 71° W	N 89° W	6·1	5·7	+0·4	82	− 4	76	−11	·714	−·060	8·4	+0·6	5	−5·2	2·97	6·85	−3·88	11·53	23·12	−11·59	1·12	Amraoti.
0	0	0	0	0	0	5	21	5	W	N 86° W	7·0	6·4	+0·6	90	− 3	88	+ 4?	·732	−·036	8·1	+0·7	7	−3·2	4·86	6·50	−1·64	21·43	20·92	+ 0·51	2·55	Khandwa.
3	0	1	0	0	0	21	1	5	S 60° W	S 53° W	3·0	2·8	+0·2	69	−10	87	− 3	·794	− 034	7·7	−1·0	7	−8·3	7·64	14·39	− 6·75	25·27	36·23	−10·96	5·50	Hoshangabad.
0	0	0	1	0	0	0	21	9	N 76° W	S 87° W	6·7	3·9	+2·8	89	+24	84	− 4	·715	−·036	5·4	−2·6	7	−8·1	6·14	13·13	−6·99	32·42	34·24	− 1·82	2·86	Saugor.
0	0	0	0	3	2	12	13	1	S 59° W	S 77° W	2·7	3·1	−0·4	76	+ 8	82	− 7	·754	−·067	7·4	−0·8	12	−5·4	10·22	16·35	−6·13	26·91	42·41	−15·50	2·83	Jubbulpore.
2	5	1	0	0	1	3	11	8	N 65° W	N 76° W	4·9	3·6	+1·3	66	+23	81	− 7	·703	−·067	7·7	+0·8	11	−5·6	10·97	13·00	−2·03	29·28	38·16	− 8·88	2·90	Seoni.
2	1	0	0	0	0	2	15	11	N 73° W	S 89° W	5·4	5·3	+0·1	82	+21	73	−12	·721	−·082	6·0	−2·2	10	−3·6	4·68	11·92	−7·24	22·45	35·69	−13·24	1·25	Nagpur.
18	1	1	0	0	2	1	3	5	N 69° W		4·5			23		83	− 4	·734	−·049	4·1	−3·1	15	−2·5	13·48	12·59	+0·89	30·97	34·84	− 3·87	3·23	Pendra.

* Mean of 20 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	28·730	+·040	29·646	28·822	9th	28·555	26th	77·8	73·1	85·9	+0·1	74·0	−0·7	80·0	−0·3	11·9	92·6	17th	71·2	27th
	Chanda	*634*	29·111	+·032	29·689	29·182	9th & 31st.	28·989	26th	80·4	74·2	90·1	+2·6	75·0	−0·1	82·6	+1·3	15·1	94·5	15th	71·0	28th
	Jagdalpur	1,813	27·952		29·684	28·040	9th	27·804	26th	76·9	72·8	84·0		70·8		77·4		13·2	90·9	18th	61·6	19th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·911	+·040	29·748	27·976	9th	27·836	1st	74·0	68·7	88·3	+3·3	69·1	−0·2	78·7	+1·5	19·2	93·2	24th	67·1	28th
	Nizamabad	1,248	28·543	+·058	29·732	28·630	9th	28·457	1st	77·9	72·1	90·7	+4·6	73·2	+0·4	82·0	+2·5	17·5	95·1	11th	69·8	22nd
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·320	+·036	29·756	28·415	9th	28·257	26th	76·8	70·5	93·2	+5·0	71·4	0	82·3	+2·5	21·8	97·0	10th	64·8	1st
	Raichur	*1,311*	28·127	+·049	29·771	28·617	9th	28·469	1st & 26th	78·2*	70·6*	95·0*	+6·0*	72·5*	0 *	83·8*	+3·0*	22·5	98·8	22nd	70·1	23rd
	Hyderabad (Deccan)	1,719	28·101	+·053	29·743	28·188	9th	28·016	26th	77·1	71·8	90·9	+5·4	73·9	+1·5	82·4	+3·5	17·0	96·5	7th	71·1	3rd
	Hanamkonda	877	28·892	+·034	29·706	28·974	31st	28·800	25th	81·3	73·2	91·8	+4·1	76·5	+1·4	84·1	+2·7	15·3	99·3	28th	72·4	1st
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·480	+·032	29·796	27·540	9th	27·435	27th	71·8	67·8	84·4	+2·3	67·8	−0·4	76·1	+0·9	16·6	91·0	25th	66·2	15th
	Hassan	3,149	26·798	+·031	29·819	26·850	9th	26·757	27th	69·3	66·4	78·5	0	64·5	−0·2	71·5	−0·1	14·0	82·4	10th	62·1	27th
	Bangalore	3,021	26·916	+·029	29·818	26·977	9th	26·875	15th	69·3	66·1	83·3	+1·3	65·5	−0·3	74·3	+0·5	17·7	88·3	10th	63·3	27th
	Mysore	2,518	27·401	+·019	29·618	27·458	9th	27·353	15th	72·2	67·6	83·2	−0·1	66·1	−0·5	74·7	−0·3	17·1	85·8	12th	63·1	27th
	XV.—Madras.																					
30	Mangalore	72	29·855	+·025	29·858	29·922	9th	29·817	20th	76·8	74·8	82·8	−0·6	73·3	−0·4	78·1	−0·5	9·5	85·8	2nd & 9th.	71·5	15th
	Calicut	27	29·907	+·030	29·863	29·961	9th	29·863	20th	75·9	74·8	80·9	−1·8	74·2	−0·1	77·5	−0·9	6·7	84·6	29th	72·5	3rd
	Cochin	9	29·936	+·026	29·873	29·989	3rd	29·890	15th	77·5	74·5	83·1	−1·0	74·0	−0·4	78·6	−0·7	9·1	85·5	29th	72·1	19th
	Trivandrum	198	29·739	+·032	29·869	29·795	3rd	29·694	15th	76·7	73·7	82·1	−0·1	73·7	−1·3	77·9	−0·7	8·4	84·0	18th	71·9	13th
31	Pamban	37	29·823	+·009†	29·788	29·894	3rd	29·775	15th	82·0	76·6	90·9	+1·6	78·6	+0·2	84·7	+0·9	12·3	92·2	16th	77·9	4th & 25th,
	Madura	447	29·436	+·039	29·815	29·512	3rd	29·375	15th	82·1	73·6	95·1	−1·2	76·1	+0·3	85·6	−0·5	19·0	98·1	4th, 8th & 27th.	73·0	4th
	Pudukkottai	318	29·547	+·022	29·796	29·604	4th	29·486	15th	81·7	72·5	96·3	+1·7	76·1	+0·5	86·2	+1·1	20·2	100·3	8th	70·7	31st
	Negapatam	31	29·827	+·022	29·787	29·884	4th	29·765	15th	81·0	74·2	93·4	−0·5	77·3	0	85·4	−0·3	16·1	97·5	13th	73·0	20th
	Trichinopoly	255	29·613	+·025	29·802	29·668	3rd	29·557	15th	82·7	74·0	97·5	+1·0	77·1	+0·3	87·3	+0·7	20·4	101·3	8th	74·8	20th
	Coimbatore	1,341	28·547	+·031	29·824	28·608	9th	28·497	15th	75·7	71·7	87·6	−0·6	70·7	−0·1	79·1	−0·3	16·9	91·1	12th	69·5	26th
	Salem	913	28·966	+·036	29·815	29·013	31st	28·910	15th	77·7	72·6	92·0	−0·1	73·4	+0·6	82·7	+0·8	18·6	96·5	5th	71·5	27th
	Cuddalore	37	29·807	+·022	29·774	29·869	4th	29·739	26th	81·7	75·9	92·9	−0·9	77·2	+0·5	85·1	−0·2	15·7	97·5	8th	73·2	14th
	Vellore	707	29·131	+·020	29·773	29·200	9th	29·080	26th	80·6	74·4	93·9	+1·0	76·3	0	85·1	+0·5	17·6	100·5	10th	71·6	16th
	Madras	22	29·[illegible]09	+·022	29·762	29·873	4th	29·748	26th	83·5	75·4†	95·4	+1·6	78·5	+1·0	87·0	+1·3	16·9	101·2	29th	74·6	2nd
32	Cuddapah	428	29·420	+·035	29·785	29·487	9th	29·370	27th	81·8	73·8	95·4	+1·1	77·0	+0·2	86·2	+0·7	18·4	101·6	10th	71·8	19th

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

* Mean of 19 days.

† „ 30 „

B—*continued.*

stations in India, etc., in August, 1920—*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 rainfal from 1st May to 31st August 1920.	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.*
19	0	0	0	0	1	5	5	1	S 67° W	S 56° W	4·2	6·1	−1·9	33	−39	83	−6	·797	−·040	8·6	+0·6	17	+1·4	10·29	13·74	−3·45	30·17	37·37	−7·20	3·35	Raipur.
0	0	0	0	0	11	11	16	3	S 76° W	S 76° W	4·9	4·1	+0·8	80	+11	74	−8	·755	−·054	6·4	−1·5	11	−4·2	6·15	13·35	−7·20	24·50	37·89	−13·39	2·58	Chanda.
6	2	0	0	1	4	4	10	4	S 79° W		3·2			49		82		·754		1·1		18	−1·3	11·05	14·62	−3·57	28·58	40·98	−12·40	2·12	Jagdalpur.
																															XIII.—Hyderabad.
0	0	0	0	0	0	6	22	3	S 86° W		12·0			92		76	−7	·633	−·076	8·1	−0·1	4	−5·1	2·40	4·86	−2·46	5·07	17·94	−12·87	1·01	Aurangabad.
1	2	0	0	0	0	12	9	7	S 86° W		3·2			72		75	−7	·716	−·032	6·4	−0·5	10	−4·2	5·31	10·61	−5·30	20·35	26·90	−6·55	2·40	Nizamabad.
0	0	0	0	0	0	6	15	10	N 84° W	N 75° W	11·5	10·0	+1·5	86	+5	73	−8	·666	−·046	3·5	−3·7	2	−6·9	2·22	6·10	−3·88	7·86	18·41	−10·55	1·98	Gulbarga.
0	0	0	0	0	0	2	18	11	N 76° W	S 81° W	11·5	9·5	+2·0	92	+11	68*	−8	·652*	−·053	3·7	−2·2	4	−5·0	3·72	5·62	−1·90	9·34	15·23	−5·89	2·80	Raichur.
1	0	0	0	0	0	0	22	8	N 78° W	N 83° W	5·5	6·1	−0·6	96	+3	73	−8	·713	+·006?	6·0	−1·4	3	−7·9	3·77	6·74	−2·97	15·70	18·62	−2·92	2·88	Hyderabad (Deccan).
6	3	0	0	0	0	0	9	13	N 56° W		5·0			69		67	−8	·709	−·041	5·0	−2·0	9	−1·8	1·68	7·04	−5·36	10·77	23·07	−12·30	0·34	Hanamkonda.
																															XIV.—Mysore.
6	0	0	0	0	0	7	16	8	N 89° W	S 78° W	7·7	7·8	−0·1	86	−2	81	−2	·627	−·028	7·5	−1·2	7	−0·1	2·01	3·09	−1·08	7·48	12·45	−4·97	0·52	Chitaldrug.
3	0	0	0	0	0	3	22	3	W	N 87° W	7·4	3·2	+4·2	26	−62	85	0	·613	−·016	8·5	−0·2	8	−0·7	2·34	3·80	−1·46	7·73§	18·44	−10·71	0·52	Hassan.
0	0	0	0	0	0	9	22	0	S 77° W	S 78° W	7·4	6·1	+1·3	96	+28	84	−1	·602	−·022	9·1	+0·5	9	−0·4	5·78	5·19	+0·59	12·47	16·52	−4·05	1·54	Bangalore.
6	0	0	0	0	1	15	15	0	S 65° W	S 72° W	6·9	9·1	−2·2	89	+1	78	−4	·614	−·027	6·5	−2·0	5	−1·5	2·39	3·29	−0·90	9·10	14·35	−5·25	0·85	Mysore.
																															XV.—Madras.
8	3	1	6	1	1	1	5	5	N 22° W	N 72° W	3·5	1·8	+1·7	20	−5	91	+2	·834	−·019	7·7	−0·8	27	+2·3	21·03	23·04	−2·01	100·61	103·62	−3·01	2·77	Mangalore.
7	7	3	2	0	0	3	2	7	N 22° W	N 22° W	3·5	5·6	−2·1	43	+3	92	+1	·827	−·014	8·5	+0·7	17	−1·5	9·20	15·95	−6·75	102·01	89·16	+12·85	1·96	Calicut.
23	1	3	0	0	0	0	0	4	N 7° W	N 13° W	3·6	4·2	−0·6	20	−27	86	0	·815	−·026	7·2	−0·1	18	0	7·96	12·63	−4·87	83·07	76·35	+6·72	1·12	Cochin.
0	4	0	0	0	0	0	3	24	N 43° W	N 13° W	5·8†	6·6	−0·8	92	+9	86	+1	·790	−·016	7·7	0	6	−3·2	1·92	4·08	−2·16	50·23	33·26	+16·97	0·82	Trivandrum.
1	2	0	0	2	16	7	3	0	S 18° W	S 43° W	6·2	7·3	−1·1	69	+4	77	0	·840	−·031	2·8	−0·4	0	−1·1	0	0·75	−0·75	0·17	2·02	−1·85	0	Pamban.
0	3	1	0	0	0	1	12	13	N 61° W	N 41° W	4·2	2·3	+1·9	79	0	65	−2	·714	−·029	6·9	+1·7?	12	+6·1	5·68	4·18	+1·50	11·08	10·20	+0·88	1·75	Madurá.
3	5	1	0	0	1	0	10	11	N 53° W		4·3			68		63	−8	·676	−·078	5·3	−1·8	8	+0·2	4·85	5·59	−0·74	10·97‖	12·23	−1·26	1·41	Pudukkottai.
0	0	0	0	0	0	7	21	3	S 84° W	S 72° W	5·8	4·5	+1·3	92	+9	72	+1	·755	−·043	5·4	+0·1	6	+0·6	2·77	3·62	−0·85	5·07	8·43	−3·36	1·10	Negapatam.
0	0	0	0	0	0	12	17	2	S 75° W	S 85° W	5·2	5·8	−0·6	92	+4	65	−3	·723	−·014	5·8	−0·2	2	−3·1	0·69	3·88	−3·19	4·32	9·81	−5·49	0·36	Trichinopoly.
9	0	0	0	0	0	21	1	0	S 47° W	S 36° W	5·5	4·7	+0·8	72	−7	80	−4	·717	−·029	3·4	−2·1	2	−0·8	0·48	1·08	−0·60	4·78	6·66	−1·88	0·23	Coimbatore.
2	1	0	0	0	5	21	2	0	S 41° W	S 37° W	3·5	2·9	+0·6	82	+10	77	−3	·731	−·048	5·5	−1·0	9	−1·7	5·52	6·91	−1·39	11·66	18·53	−6·87	2·31	Salem.
5	0	0	0	0	0	19	7	0	S 57° W	S 73° W	5·7	1·7	+4·0	79	+7	76	−2	·812	−·051	5·7	+0·2	5	−2·9	5·00	5·13	−0·13	8·30	10·38	−2·08	1·66	Cuddalore.
8	0	0	0	0	0	0	9	14	N 62° W		3·8			93		74	+3†	·766	+·026?	4·5	−0·9	6	−1·6	4·27	6·40	−2·13	8·96	16·07	−7·11	1·60	Vellore.
2	0	0	0	0	1	16	12	1	S 65° W	S 66° W	3·5	5·0	−1·5	82	+3	68‡	−8	·767‡	−·069	6·6	−0·2	8	0	2·38	4·79	−2·41	6·14	11·59	−5·45	1·20	Madras.
2	2	0	0	0	0	4	14	9	N 77° W	N 62° W				76	−7	68	−3	·729	−·037	7·3	−0·3	6	−2·2	5·03	5·81	−0·78	9·71	14·25	−4·54	2·49	Cuddapah.

* Mean of 19 days.
† " 28 "
‡ " 30 "
§ Rainfall for July 1920, wanting.
‖ " " May " "

Table

(2) Abstract of observations taken at 8 hrs. at 212

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
	XV.—Madras—*concld.*																					
	Bellary	1,475	28·377	+·034	29·782	28·453	9th	28·324	1st	78·6	70·1	92·6	+1·8	73·0	−0·8	82·8	+0·5	19·6	98·1	9th	71·5	19th & 22nd.
	Kurnool	923	28·910	+·039	29·774	28·987	9th	28·852	26th	78·2	72·7	93·9	+3·8	75·1	+1·2	84·5	+2·5	18·8	97·4	10th	71·2	2nd
33	Nellore	66	29·734	+·017	29·735	29·810	3rd	29·655	25th	84·1	75·0	97·4	+1·7	80·0	+1·2	88·8	+1·5	17·4	103·0	10th	75·1	12th
	Masulipatam	15	29·759	+·017	29·709	29·843	3rd	29·667	26th	83·5	77·0	94·3	+3·1	78·2	+0·5	86·2	+1·8	16·1	101·3	10th	73·1	17th
	Cocanada	26	29·734	+·034	29·697	29·828	9th	29·645	25th	82·3	78·2	92·1	+2·6	78·9	+0·5	85·5	+1·5	13·2	98·7	14th	74·3	1st
	Vizagapatam	38	29·688	+·033	29·664	29·801	9th	29·560	26th	84·0	78·1	90·7	+2·0	80·5	+2·5?	85·6	+2·3?	10·2	98·9	5th	76·6	14th
	Calingapatam	19	29·689		29·646	29·800	9th	29·543	26th	83·4	78·6	92·2		78·2		85·2		14·0	97·7	14th	74·3	22rd
	Gopalpur	56	29·643	+·042	29·639	29·746	9th	29·484	25th	83·6	80·9	89·1	+1·8	79·1	+0·4	84·1	+1·1	10·0	95·1	12th	75·9	29th
	Bay Stations.																					
1	P. V. Fraser	8	29·642		29·605	29·770	9th	29·457	25th	83·3	80·1											
	Port Blair	58	29·777	−·013	29·766	29·845	2nd	29·719	25th	80·2	76·7	84·8	−0·4	76·8	−0·4	80·8	−0·4	8·0	87·6	31st	73·5	2nd
	Table Island	90	29·719	−·016	29·743	29·800	30th	29·633	23rd	81·0	79·3	84·2	−0·2	77·6	+0·4	80·9	+0·1	6·6	86·8	31st	73·6	24th
	Kashmir.																					
13	Muzaffarabad		27·250			27·391	17th	27·084	5th	78·7	70·2	95·5		71·9		83·7		23·6	101·6	29th	65·5	22nd
	Srinagar	5,204	24·723	+·014	24·694	24·867	17th	24·592	5th	70·5	64·3	84·9	+0·2	60·2	−3·2	72·6	−1·5	24·7	90·8	12th	51·4	24th
	Gulmarg	*8,569*	21·794	−0·01	21·762	21·869	17th	21·699	6th	61·9	55·4	68·6	+0·3	47·7	−3·2	58·2	−1·5	20·9	79·1	12th	41·6	24th
	Dras	*10,059*	20·743	+·016	20·711	20·819	9th	20·649	5th	57·5	49·9	74·2	−5·5	46·5	−1·9	60·3	−3·7	27·7	82·8	11th	39·1	24th
	Leh	*11,503*	19·672	+·004	19·640	19·758	17th	19·587	5th	56·5	47·8	72·4	−4·5	48·7	−1·0	60·6	−2·7	23·7	78·9	12th	41·2	23rd
	Skardu	*7,505*	22·702	0	22·672	22·858	24th	22·575	5th & 6th.	68·0	54·6	84·9	−2·2	61·6	+0·5	73·3	−0·9	23·3	97·0	11th	49·0	24th
	Gilgit	4,890	24·962	+·063	24·935	25·109	16th	24·744	6th	76·4	66·4	92·9	−2·3	68·1	−3·6	80·5	−2·9	24·8	102·4	12th	61·0	23rd
	Baluchistan.																					
15	Fort Sandeman	4,614	25·221		25·190	25·305	16th	25·135	6th	77·8	65·2	98·6		72·5		85·6		26·1	103·9	11th	65·8	3rd
	Quetta	5,502	24·510	+·026	24·470	24·595	17th	24·443	5th	66·2	58·3	91·9	+0·7	59·3	−2·1	75·6	−0·7	32·6	95·6	2nd	52·5	22nd
	Chaman	4,311	25·493	0	25·455	25·564	16th	25·429	1st	78·6*	62·4	96·6	−1·1	69·9	−1·5	83·3	−1·3	26·7	102·2	28th	66·6	7th
	Kalat	6,630	23·634		23·596	23·705	17th	23·525	6th	61·8	49·1	88·8	−2·5	56·7		72·7		32·1	98·3	8th	52·7	31st
	Dalbandin	2,772	26·899		26·862	26·966	9th	26·824	1st	76·0	54·4	104·1		68·6		86·3		35·5	109·8	28th	62·7	31st
	Pasni		29·675		29·635	29·769	17th	29·571	2nd	81·1	77·3	91·2		70·4		80·8		20·8	94·6	12th	67·2	25th
	Panjgur	3,177	26·552		26·510	26·621	17th	26·485	1st	77·6	62·7	99·1		70·9		85·0		28·2	104·8	1st	65·4	7th & 16th.
	Seistan		27·864			27·890	23 days	27·780	4th	80·2	66·4	98·5		74·8		86·7		23·7	106·2	27th	68·4	22nd
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·321	+·006	24·297	24·415	17th	24·237	5th	73·5	64·8	83·6	−2·0	62·6	−2·2	73·1	−2·1	21·0	90·2	1st	52·5	16th
	Cherat	*4,256*	25·575	+·045	25·548	25·683	16th	25·460	5th	76·4	66·0	88·3	+1·7	71·0	+1·1	79·7	+1·4	17·3	96·2	11th	64·9	16th
	Drosh (*e*)	4,500	24·856			24·950	17th & 24th.	24·725	11th	71·6	62·2	91·3	−4·0	68·7	−3·2	80·0	−3·6	22·6	101·1	11th	60·0	23rd & 24th.
	Murree	6,333	23·885	+·015	23·853	23·958	17th	23·767	5th	67·0	61·3	75·1	+1·2	62·2	+1·6	68·7	+1·4	12·9	81·5	11th	53·1	19th

B.—Elevations in italics indicate barometrical determinations.
(*e*) Aneroid.

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

* Mean of 30 days.

B—*continued.*

stations in India, etc., in August, 1920—*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 1920.	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.*
1	1	0	0	0	0	1	18	10	N 74° W	N 85° W	8·1	8·2	−0·1	89	+ 3	64	− 4	·629	−·019	6·6	−1·0	4	−0·2	4·01	2·33	+1·68	6·55	8·05	−1·50	1·90	Bellary.
2	0	0	0	0	0	4	14	11	N 78° W	N 89° W	6·2			82	+17	76	− 1	·729	−·005	5·0	−2·2	3	−6·5	1·00	5·32	−4·32	4·14	14·20	−10·06	0·37	Kurnool.
0	0	0	0	0	0	5	12	14	N 76° W	N 68° W	3·5	6·9	−3·4	86	+11	65	− 5	·743	−·059	6·7	−1·4	3	−2·7	1·29	3·42	−2·13	5·16	8·13	−2·97	0·36	Nellore.
2	0	0	1	0	0	2	15	11	N 74° W	N 72° W	5·8	5·6	+0·2	79	− 4	74	− 9	·838	−·069	6·2	−1·6	10	−0·7	4·94	6·91	−1·97	12·01	18·76	−6·75	1·25	Masulipatam.
4	0	2	0	0	1	7	13	4	S 85° W	S 74° W	5·6	5·6	0	62	−17	82	− 1	·911	+·032	7·4	+0·2	9	−0·6	3·44	5·43	−1·99	16·40	17·38	−0·98	0·82	Cocanada.
6	0	1	0	0	1	0	12	11	N 69° W	S 84° W	7·4			66	−15	76	− 3	·884	+·034	8·1	+0·1	12	+3·6	3·66	5·59	−1·93	9·03	17·00	−7·97	0·76	Vizagapatam.
0	5	1	0	1	1	9	9	5	N 87° W		5·3			55		80		·912		4·6		10	− 0·3	9·52	9·77	−0·25	19·16	23·32	−4·16	2·43	Calingapatam.
1	5	0	1	2	5	12	2	3	S 52° W	S 63° W	5·5	8·0	−2·5	43	−15	89	+ 4	1·023	+·098	7·0	+2·0	10	−1·3	4·15	7·86	−3·71	16·46	22·73	−6·27	0·85	Gopalpur.
																															Bay Stations.
2	0	1	1	0	3	20	3	1	S 45° W					71		87		·987		7·3		7	−2·9	5·27	6·93	−1·66	17·59	24·67	−7·08	1·44	P. V. Fraser.
0	1	0	0	0	2	10	12	6	S 81° W	S 62° W	9·5	7·9	+1·6	76	− 3	85	− 3	·871	−·043	7·2	−1·0	20	+1·0	18·41	14·50	+3·91	60·86	65·33	−4·47	3·10	Port Blair
0	0	0	0	0	0	2	18	11	S 69° W		17·2			92		93	+ 4	·983	+·045	7·1	−1·6	14	−2·6	6·65	11·97	−5·32	56·10	50·12	+5·98	1·55	Table Island.
																															Kashmir.
20	0	0	0	0	3	6	2	0	S 41° W		1·2			29		65		·638		4·0		6	−7·8	2·74	11·03	−8·29	20·09	26·26	−6·17	0·60	Muzaffarabad.
14	2	1	1	4	4	1	0	4	S 27° E	S 48° E	2·4	2·6	−0·2	7	−25	71	−14	·540	−·076	3·5	−1·3	3	−2·0	0·99	2·23	−1·24	5·06	8·72	−3·66	0·47	Srinagar.
10	2	9	3	3	0	0	1	3	N 45° E		2·8			37		68	−11	·375	−·046	4·0	−0·9	4	−5·5	1·27	4·82	−3·55	5·45	12·31	−6·86	0·38	Gulmarg.
23	2	2	1	0	0	0	2	1	N 4° W		6·7			13		62	0	·292	−·045	3·6	−0·5	0	−1·2	0·02	0·44	−0·42	3·53	4·47	−0·94	0·02	Dras.
31	0	0	0	0	0	0	0	0	Calm	N 85° W	1·4	1·3	+0·1			56	− 3	·259	−·024	3·7	−0·8	0	−1·7	0·03	0·50	−0·47	0·31	1·36	−1·05	0·03	Leh.
11	0	1	1	1	2	13	2	0	S 38° W		6·5			46		44	−10	·291	−·089	3·9	−0·2	0	−1·2	0·02	0·39	−0·37	0·24	2·39	−2·15	0·01	Skardu.
28	0	0	0	0	0	2	0	1	S 72° W		0·5			7		59	+12	·542	+·079	3·6	−0·3	2	+0·2	0·38	0·48	−0·10	1·37	2·20	−0·83	0·10	Gilgit.
																															Baluchistan.
22	2	2	1	0	0	2	2	0	N 27° W		4·1			7		51		·476		1·1		1	−2·2	0·53	1·48	−0·95	4·86	4·70	+0·16	0·33	Fort Sandeman.
31	0	0	0	0	0	0	0	0	Calm	S 22° W	1·8	2·0	−0·2			62	+ 6	·409	−·070	0·5	−0·6	0	−0·7	0	0·41	−0·41	0·44	1·61	−1·17	0	Quetta.
7	0	0	0	5	8	10	1	0	S 14° W	S 61° W	3·5	6·1	−2·6	66	+15	40*	+ 9	·394*	+·048	0·3	−0·2	0	0	0	0·02	−0·02	0·08	0·25	−0·17	0	Chaman.
30	0	0	0	1	0	0	0	0	S 45° E	S 16° W	3·7			3	−35	40	− 1	·221	−·138	0·3		0	−0·5	0	0·18	−0·18	0·30	1·36	−1·06	0	Kalat.
15	1	0	0	0	1	4	8	2	S 84° W		5·1			40		18		·163		0·5		0	−0·2	0	0·08	−0·08	0·24	0·23	+0·01	0	Dalbandin.
10	0	1	3	0	2	6	6	3	S 68° W		6·6			30		84		·882		6·0		0	−0·2	0	0·08	−0·08	0·10	1·75	−1·65	0	Pasni.
15	1	0	1	0	5	4	2	3	S 51° W		4·2			27		44		·410		0·2		0		0			0·12			0	Panjgur.
0	0	0	0	0	0	0	0	31	N 45° W		16·0			100		47		·482		0·2		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm.		0·2					68	+ 2	·519	0	2·0	−2·3	9	+1·9	4·23	3·47	+0·76	11·88	11·61	+0·27	1·81	Parachinar.
										S 31° E	2·3	5·9	−3·6			58	−18	·520	−·121	1·2	−3·1	4	−1·6	1·34	4·02	−2·68	4·62	10·68	−6·06	0·57	Cherat.
29	0	0	1	0	0	1	0	0	S 23° E		3·5			2		59	+ 1	·453	−·103	1·3	−1·0	3	+0·7	0·65	0·72	−0·07	3·50	3·99	−0·49	0·34	Drosh.
26	0	1	1	2	0	0	0	1	E	N 46° W	1·9	3·9	−2·0	8	−14	74	− 9	·483	−·047	4·2	−1·0	10	−4·3	5·66	14·11	−8·45	14·54	32·55	−18·01	1·24	Murree.

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

* Mean of 30 days.

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. 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
	Hill stations, excluding Kashmir and Baluchistan—*concld.*																					
	Simla	7,232	23·026	+·017	22·988	23·103	16th	22·924	5th	61·4	59·1	66·2	−0·5	58·6	−0·6	62·4	−0·5	7·6	70·5	30th	55·0	31st
	Chakrata	6,922	23·301		23·[illegible]61	23·392	2nd	23·202	5th	63·9	61·6	71·0	+2·5	59·9	+0·3	65·5	+1·4	11·1	75·7	26th	58·1	3rd
	Mukteswar	7,592	22·765	+·004	22·724	22·835	16th	22·681	5th	60·5	58·6	70·3	+1·5	54·7	−3·0	62·5	−0·7	15·6	75·5	25th	53·0	20th
	Darjiling	7,432	22·874	−·024	22·829	22·944	2nd	22·801	5th	61·1	60·0	67·2	+1·3	58·2	+0·8	62·7	+1·1	9·0	72·4	25th	55·8	22nd
	Kalimpong		25·837		25·790	25·917	2nd	25·737	5th	68·8	67·9	74·9		66·9		70·9		8·0	80·2	25th	65·6	11th
	Shillong	4,920	25·018	−·017	24·970	25·094	16th	24·918	5th	67·7	64·8	74·4	−0·6	63·7	+0·2	69·1	−0·2	10·7	78·9	2nd	60·7	20th, 10th
	Cherrapunji	4,309	25·586	+·006	25·537	25·665	15th & 16th.	25·451	6th	67·7	66·2	72·2	+0·2	64·5	−0·5	68·3	−0·1	7·7	79·9	26th	55·6	6th
	Netarhat	...								69·4	68·2	76·2		64·9		70·5		11·3	82·8	19th	62·3	18th
	Maymyo	3,546	26·301	−·029	26·246	26·385	18th	26·203	5th	69·1	67·4	76·4	−0·1	66·9	+1·4	71·6	+0·7	9·5	80·4	21st	64·8	29th
	Pachmarhi	3,528	26·302	+·029	26·249	26·400	31st	26·110	27th	68·2	66·6	75·1	+0·2	63·2	−0·8	70·6	−0·3	8·9	81·0	17th & 19th.	63·1	29th
	Mount Abu	3,945	25·909	+·043	25·859	25·993	17th	25·806	3rd	65·0	63·4	70·9	−1·1	62·9	−1·5	66·9	−1·3	8·0	77·6	27th	61·0	20th
	Mercara	3,781	26·205	+·023	26·138	26·258	3rd	26·168	14th	63·5	62·9	68·3	−1·4	60·1	−2·0	64·2	−1·7	8·2	70·9	30th	54·0	22nd. 1st
	Ootacamund	7,327	23·036	+·031	22·972	23·088	9th	22·996	27th	55·7	53·6	62·4	−0·3	50·8	−1·3	56·6	−0·8	11·6	67·2	22nd	47·2	29th
	Kodaikanal	7,688	22·806	+·018	22·741	22·860	9th	22·753	15th	56·3	52·8	63·0	−0·1	51·4	−1·1	57·2	−0·6	11·6	66·4	28th	49·6	13th 27th.
	Extra India.																					
	Singapore (*a*)	10	29·855	−·075	29·786	29·929	8th	29·779	16th	82·3		87·8	+0·4	73·9	+0·3	80·9	+0·3	13·9	92·0	1st	71·0	3rd
	Penang (*a*)	17	29·867	−·048	29·809	30·051	21st	29·640	16th	82·0		89·5	+0·6	71·7	−2·0	80·6	−0·7	17·8	92·0	5th & 6th	69·5	31st
	Trincomalee	99	29·774	+·025	29·802	29·847	2nd	29·713	15th	78·1	73·2	92·7	+1·0	76·4	−0·6	84·6	+0·2	16·3	95·2	8th	72·1	9th
	Colombo	24	29·915	+·019	29·865	29·961	3rd	29·862	15th	78·0	75·0	84·5	−1·5	77·1	−0·3	80·8	−0·9	7·4	86·3	3rd	73·2	4th
	Hambantota	64	29·847		29·837	29·923	3rd	29·782	15th	77·1	74·3	87·9	+0·6	76·0	+0·7	82·0	+0·1	11·9	93·3	26th	74·2	4th
	Minicoy	7	29·972	+·052		30·021	8th & 9th.	29·913	20th													
	Amini Divi	*13*	29·920	+·026	29·868	29·974	9th	29·882	15th & 29th.	81·7	77·1	86·1	+0·7	77·5	+0·2	81·8	+0·5	8·6	89·5	4th	73·1	31st
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,760	24·170*	−·105*	24·125*	24·236	2nd	24·086	5th	65·5	64·4	72·3	−2·8	62·8	+7·2	67·5	+2·5	9·5	78·9	25th	61·0	23rd
	Gartok (*b*)	15,100																				
	Kashgar (*b*)	4,255	25·429	−·061		25·557	9th	25·320	29th	70·5	64·5	88·4	−1·4	62·5	−3·1	75·4	−2·3	25·9	95·8	9th	55·8	21st
	Kabul (*b*)	...																				
	Meshed	3,104								69·0	57·5	91·1	+2·7	57·0	−2·6	74·1	+0·1	34·1	95·9	28th	51·8	10th
	Jask	13	29·627	+·034	29·593	29·736	17th	29·553	1st	87·5	79·7	92·7	+3·4	80·9	−3·2	89·3	+0·1	16·8	106·6	14th	77·3	8th
	Muscat	20	29·649	+·067	29·618	29·728	17th	29·566	1st	86·6	80·8	92·8	+3·7	83·9	−0·1	88·4	+1·8	8·9	106·8	13th	77·3	31st
	Bushire	14	29·595	+·051	29·570	29·678	31st	29·491	2nd	80·0	79·1	97·6	+0·7	83·4	−0·5	90·5	+0·1	14·2	106·2	6th	77·6	29th
	Busrah	25																				
	Ispahan (*b*)	5,817	24·233	−·057		24·350	17th	24·040	23rd	69·4	57·4	91·9	−4·0	63·3	+0·1	77·6	−1·9	28·6	98·4	1st	58·2	4th
	Tehran (*b*)	4,002	25·677	−·073		25·800	2nd, 3rd & 12th.	25·500	23rd	77·5	63·3	91·8	−5·7	69·2	−1·8	80·5	−3·7	22·6	97·5	1st	65·0	24th
	Baghdad	125	29·471	−·010	29·568	29·686	31st	29·349	3rd	83·7	64·2	108·8	−1·4	80·8*	+1·6*	94·8*	+0·1	27·8	116·3	18th	72·0	28th
	Aden	94	29·665	+·015	29·689	29·719	7th & 25th.	29·583	3rd	84·1	77·9	91·7	−0·3	81·5	+1·1	86·6	+0·4	10·2	95·0	17th	72·7	30th
	Zanzibar	72	30·111	+·027	30·110	30·175	24th	30·049	15th	75·1	71·1	80·9	−0·2	73·6	−0·1	76·7	−0·1	8·3	83·0	30th	69·6	25th

N.B.—Elevations in italics indicate barometrical determinations.
(*a*) 9 hrs. observations.
(*b*) Aneroid.

* Mean of 30 days.

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

B—*concluded.*

stations in India, etc., in August, 1920—*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 August 1920.	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.*
																88	− 3	·477	−·026	6·3	−1·9	12	−7·7	7·15	18·12	−10·97	45·29	43·84	+ 1·45	1·88	Simla.
7	0	4	5	2	1	6	6	0	S 15° W	S 39° E	7·1	3·9	+3·2	13	+ 5	89	− 4	·526	−·014	5·7	−0·6	13	−7·2	8·33	19·38	−11·05	26·79	49·70	−22·91	3·06	Chakrata.
3	1	1	4	1	0	0	21	0	N 86° W		5·9			53		90	− 4	·477	−·031	6·9	−1·8	10	−7·6	5·80	12·78	−6·98	37·59	33·69	+ 3·90	2·35	Mukteswar.
25	0	0	0	2	0	2	2	0	S 36° W	N 88° E	2·0	2·7	−0·7	13	−27	94	− 2	·505	−·016	9·5	+0·5	24	− 0·4	14·15	27·71	−13·56	76·43	94·27	−17·84	2·10	Darjiling.
																96		·675		8·4		?		?			?			?	Kalimpong.
25	0	0	2	2	1	0	1	0	S 45° E		2·0			10		86	− 1	·579	−·014	8·1	+0·5	18	−1·0	13·96	14·66	−0·70	41·52	58·37	+16·85	1·88	Shillong.
12	0	4	1	3	6	5	0	0	S 16° E					30		91	− 5	·625	−·014	8·7	0	26	−1·2	93·57	82·01	+10·66	251·50	322·40	−70·90	18·95	Cherrapunji.
0	1	1	1	1	3	9	11	4	S 74° W		7·7			58		94		·678		8·3		15		11·00			48·42			3·00	Netarhat.
12	0	0	0	0	1	17	1	0	S 45° W		1·4			59		91	+ 1	·648	−·020	9·3	+1·7	12	−2·9	7·67	8·79	−1·12	29·39	34·43	− 5·04	2·92	Maymyo.
0	0	1	0	0	0	3	21	6	N 84° W	S 87° W	7·2	6·8	+0·4	89	+13	93	+ 1	·634	−·021	7·8	−1·2	18	−3·2	17·03	22·83	−5·80	43·97	56·54	−12·57	9·60	Pachmarhi.
1	0	0	0	0	1	25	3	1	S 50° W	S 59° W	7·7	8·2	−0·5	89	+11	92	− 3	·570	−·045	8·2	−0·7	9	−8·2	7·43	19·64	−12·21	39·11	47·70	− 8·59	3·86	Mount Abu.
0	0	0	0	0	0	5	16	10	N 82° W	N 76° W	5·8	6·1	−0·3	89	− 1	96	0	·565	−·019	8·9	−0·5	30	+3·8	19·58	25·68	−6·10	117·78	99·92	+17·86	1·44	Mercara.
0	0	0	0	0	0	2	15	12	N 74° W		5·6			86		88	+ 1	·391	−·005	8·6	+0·5	9	−3·4	4·31	5·61	−1·30	20·56	29·30	− 8·74	2·29	Ootacamund.
2	0	0	0	1	0	1	15	12	N 73° W		7·9			79		80	0	·361	−·019	6·3	0	11	−1·1	6·52	6·74	−0·22	16·13	21·77	− 5·64	1·82	Kodaikanal.
																															Extra India.
14	0	0	1	3	4	4	0	5	S 31° W					20						7·4	+1·6	14	+3·2	9·52	6·81	+2·71	23·11	26·25	− 3·14	1·69	Singapore.
0	14	11	0	2	1	0	0	3	N 18° E					72								14	+1·3	17·83	11·17	+6·66	40·47	34·32	+ 6·15	4·29	Penang.
0	0	0	0	0	0	24	7	0	S 55° W	S 45° W	7·5	10·2	−2·7	96	− 1	78	− 3	·752	−·101	7·1	+4·3	4	−1·1	3·18	4·32	−1·14	6·23	9·93	− 3·70	1·59	Trincomalee.
3	0	0	0	1	0	21	6	0	S 52° W	S 61° W	4·5	6·7	−2·2	82	− 6	86	+ 4	·823	−·044	8·5	+2·1	3	−3·0	0·94	3·32	−2·38	29·66	27·32	+ 2·34	0·30	Colombo.
0	0	0	0	0	0	13	18	0	S 72° W		11·9			92		87		·806		4·0		1		0·20	1·26	−1·06	5·99	8·38	− 2·39	0·10	Hambantota.
1	2	0	0	0	0	2	4	22	N 53° W	N 79° W	5·9	10·9	−5·0	84	− 6					5·6	0	8	−2·7	4·60	7·11	−2·51	38·76	32·68	+ 6·08	1·07	Minicoy.
0	0	0	0	0	0	3	18	10	N 80° W		13·2			87		80	− 3	·872	−·017	6·5	−0·5	6	−5·4	3·61	7·49	−3·88	23·70	36·50	−12·80	1·34	Amini Divi.
																									3·22						Gyantse.
																									3·63						Phari jong.
31	0	0	0	0	0	0	0	0	Calm		0·4					95	+ 3	·596	−·002	8·7	+2·8	27	−0·4	19·31	23·36	−4·05	89·70	88·68	+ 1·02	1·84	Gangtok.
																									1·18			2·27			Gartok.
24	5	0	0	0	0	0	0	2	N 9° W	N 48° W	1·5	3·1	−1·6	19	+12	74	+21	·547	+·096	4·9	+1·6	3	+1·3	0·76	0·60	+0·16	4·04	1·80	+ 2·24	0·39	Kashgar.
										S 88° E															0·14			1·26			Kabul.
28	0	0	0	1	0	0	0	2	N 45° W		1·6			3		49	+ 2	·341	−·094	0·2	−0·2	0	−0·1	0·04	0·03	+0·01	4·37	1·68	+ 2·69	0·04	Meshed.
0	3	5	16	6	1	0	0	0	N 87° E	S 74° E	7·5	10·5	−3·0	79	+ 3	72	− 5	·924	−·106	2·8	+0·1	0	0	0	0	0	0	0·08	− 0·08	0	Jask.
9	0	0	0	18	0	0	0	4	S 45° E	S 76° E	2·1	3·2	−1·1	46	−14	77	− 4	·976	−·032	3·4	+0·6	0	0	0	0·01	−0·01	0	0·17	− 0·17	0	Muscat.
10	4	10	3	1	0	0	1	2	N 35° E	N 59° E	5·1	5·3	−0·2	49	+27	64	− 4	·865	−·122	0·9	+0·1	0	0	0	0·01	−0·01	0	0·03	− 0·03	0	Bushire.
																									0						Busrah.
26	0	0	0	0	0	0	1	0	W*	N 34° W	1·2	2·4	−1·2	4	−15	49	− 2	·355	−·118	0·8	+0·1	0	0	0	0	0	0·01	0·28	− 0·27	0	Ispahan.
19	0	1	1	1	5	4	0	0	S 3° W	S 14° W	3·3	1·6	+1·6	26	+15	44	+ 3	·418	−·011	1·4	+0·5	1	+0·8	0·21	0·04	+0·17	1·12	0·78	+ 0·34	0·10	Tehran.
4	4	2	2	0	2	1	10	6	N 59° W	N 4° W	5·5	2·8	+2·7	43	−18	30	−13	·343	−·221	2·0	+1·7	0	−0·1	0	0·04	−0·04	0·09	0·25	− 0·16	0	Baghdad.
6	0	3	4	7	10	1	0	0	S 38° E	S 12° W	6·2	7·8	−1·6	53	− 1	71	− 2	·874	−·003	5·1	+1·4	0	−0·3	0	0·12	−0·12	0	0·33	− 0·33	0	Aden.
3	0	0	0	4	13	11	0	0	S 12° W	S 1° W	4·1	5·0	−0·9	81	− 5	82	− 3	·709	−·022	6·3	0	3	−1·2	1·41	1·69	−0·28	17·40	16·89	+ 0·51	0·51	Zanzibar.

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

* Wind observations for 27 days.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in August, 1920.

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	80·5	77·4	90·6	+1·2	67·9	—6·2	79·3	—2·5	22·7	95·9	1st	65·3	20th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	81·8	79·1	98·7	+8·5	67·8	—7·6	83·3	+0·5	30·9	99·6	1st	63·6	17th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	77·8	73·1	90·0	+0·4	69·1	—6·3	79·5	—2·9	20·9	99·6	23rd	60·7	19th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·8	76·5	89·7	+0·2	75·5	+0·4	82·6	+0·3	14·2	98·8	1st	73·2	19th & 20th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	79·6	77·5	89·7	+1·1	75·9	0	82·8	+0·5	13·8	98·8	1st	73·0	20th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	80·1	78·2	89·5	+1·5	73·3	...	81·4	...	16·2	94·9	26th	70·6	2nd	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·2	77·6	89·3	+0·2	76·3	+0·4	82·8	+0·3	13·0	94·6	27th	73·2	5th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	80·5	77·3	89·3	+0·1	74·3	—2·0	81·5	—0·9	15·0	95·3	26th	69·7	2nd	...	...	...	...	...	...	...	...	...	...	...
	Lumding	81·8	77·6	90·4	...	75·7	...	83·1	...	14·7	96·4	7th	65·0	14th	...	...	...	...	...	...	...	...	...	...	...
	Messa	85·0	79·7	93·8	+0·8	75·7	+0·2	84·7	+0·5	18·1	97·9	2nd	73·8	18th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	77·7	77·0	88·0	—0·3	74·1	—0·6	81·1	—0·5	13·9	94·6	7th	70·4	19th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·2	72·1	92·1	+4·0	70·2	—7·1	81·1	—1·5	21·9	93·6	7th	68·1	22nd & 25th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	85·0	80·3	89·1	+1·4	77·6	—0·2	83·3	+0·6	11·5	91·9	23rd	75·6	24th & 29th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·2	79·3	89·7	—2·3	75·1	—0·8	82·4	—1·5	14·6	93·0	29th	73·1	20th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	77·7	76·7	88·5	—2·6	74·1	—0·5	81·3	—1·5	14·4	96·4	5th & 6th.	72·8	6 days.	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·1	75·6	87·4	—1·3	72·7	—2·0	80·1	—1·7	14·7	94·1	7th & 25th	70·0	15th & 23rd.	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	80·0	77·0	86·1*	—2·3	74·4	—0·2	80·3*	—1·3	11·7	92·1	25th	72·0	23rd	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	81·8	78·6	90·4	...	77·4†	...	83·6†	13·0	...	95·6	18th	74·3	7th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 30 days.
† ,, ,, 36 ,,

C.

nd fifth class stations in India, etc., in August, 1920.

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 1920.	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	·903	−·036	...	...	20	+0·5	13·55	20·26	−6·71	64·17	64·35	−0·18	3·67	Bishnath.
...	...	...	...	...	89	− 2	·961	+·021	...	...	16	−1·6	11·78	15·12	−3·34	44·52	59·45	−14·93	1·75	Borjuli.
...	...	...	...	...	81	−10	·758	−·178	...	...	19	−2·2	21·50	13·11	+8·39	77·51	74·15	+3·36	3·30	Chandkhira.
...	...	...	...	...	90	− 4	·879	−·042	...	...	19	+0·9	13·81	17·76	−3·95	58·87	62·73	−3·86	2·29	Doom Dooma.
...	...	...	...	...	91	− 2	·914	0	...	...	17	−3·1	15·93	19·27	−3·34	57·58	67·18	−9·60	4·93	Dikom.
...	...	...	...	...	91	0	·936	−·003	...	...	14	−2·4	7·31	12·35	−5·04	31·25	54·57	−23·32	1·91	Golaghat.
...	...	...	...	...	88	− 3	·909	+·002	...	...	21	−1·8	20·62	16·69	+3·93	71·03	79·25	−8·22	3·48	Hailakandi.
...	...	...	...	...	86	− 4	·891	−·041	...	...	18	−0·5	16·67	15·58	+1·09	52·16	52·50	−0·34	2·97	Jorehat.
...	...	...	...	...	83	...	·887	...	...	...	12	+1·4	8·48	7·32	+1·16	22·89	30·30	−7·41	2·48	Lumding.
...	...	...	...	...	78	− 9	·941	−·011	...	...	20	+0·9	15·69	17·58	−2·49	48·16	56·68	−8·72	4·10	Messa.
...	...	...	...	...	97	+ 2	·920	+·060	...	...	14	−0·3	12·48	11·25	+1·23	53·00	55·25	−2·25	2·40	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	11	−6·9	13·59	16·12	−2·53	59·23	61·76	−2·53	5·90	Comilla.
...	...	...	...	...	62	−25	·666	−·270	...	...	17	−0·3	15·12	12·60	+2·52	48·67	56·82	−7·95	5·30	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	16	−1·2	7·50	11·97	−4·47	42·16	47·40	−5·24	1·45	Faridpur.
...	...	...	...	...	81	− 5	·965	+·007	...	...	15	−1·0	7·48	10·98	−3·50	37·67	44·13	−6·26	1·38	Goalundo.
...	...	...	...	...	87	0	·960	−·013	...	...	15	−0·3	11·07	8·74	+2·33	36·86	41·15	+4·29	2·07	Pabna.
...	...	...	...	...	...	...	...	...	...	...	14	−1·1	13·31	11·11	+2·20	32·94	43·70	−10·76	3·42	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	16	+1·5	6·93	9·98	−3·05	26.67	37·38	−10·71	0·97	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	13	−1·6	7·14	10·91	−3·77	22·43	35·85	−13·42	1·60	Malda.
...	...	...	...	...	...	...	...	...	...	...	15	+0·8	17·60	13·66	+3·94	46·62	56·46	−9·84	2·95	Rangpur.
...	...	...	...	...	95	0	·903	−·045	...	...	21	−1·4	29·23	32·18	−2·95	84·38	116·13	−31·75	4·05	Dam Dim.
...	...	...	...	...	79	− 8	·801	−·137	...	...	25	+3·4	34·65	33·84	+0·81	106·14	109·65	−3·51	6·65	Kalchini.
...	...	...	...	...	87	− 2	·885	−·018	...	...	24	+1·4	35·20	32·99	+2·21	95·86	115·16	−19·30	5·63	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	23	+4·4	59·40	25·18	+34·22	144·67	101·71	+42·96	8·97	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	16	+1·5	10·49	9·98	+0·51	35·10	38·98	−3·88	2·43	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	13	−2·7	15·21	11·02	+4·19	40·44	39·05	+1·39	4·10	Bankura.
...	...	...	...	...	87	...	·935	...	7·7	...	11	−4·8	8·10	11·36	−3·26	31·01	37·36	−6·35	1·36	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	14	−3·8	10·65	12·84	−2·19	33·29	36·72	−3·43	3·65	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	12	−0·8	10·59	11·31	−0·72	24·99	35·14	−10·15	2·67	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	9	−4·9	7·55	14·10	−6·55	21·89	37·23	−15·34	2·11	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	15	+1·0	13·46	14·23	−0·77	40·83	40·93	−0·10	4·03	Motihari.
...	...	...	...	...	...	...	...	...	...	...	11	−2·4	3·61	11·56	−7·95	25·04	30·85	−5·81	1·06	Chapra.
...	...	...	...	...	...	...	...	...	...	...	14	+0·2	6·80	11·91	−5·11	38·74	32·11	+6·63	1·32	Arrah.
...	...	...	...	...	...	...	...	...	...	...	7	−7·4	6·00	13·13	−7·13	26·73	30·33	−3·60	1·49	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	74·5	70·3	82·6	...	70·4	...	76·5	...	12·2	89·7	16th	66·8	9th	16	0	0	0	0	0	2	7	6	N 77° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	78·3	76·7	93·0	...	73·4	...	83·2	...	19·6	98·0	10th	71·1	15th & 16th	...	...	...	...	...	...	...	...	...	...	...
38	Guntur	83·9	76·3	96·1	...	78·4	...	87 3	...	17·7	102·3	9th	71·0	16th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	70·5	68·3	79·2	...	66·3	...	72·8	...	12·9	84·3	17th	60·8	9, 10 & 24th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	83·5	75·0	93·8	...	77·9	...	85·9	...	15·9	100·4	31st	68·6	22nd	7	7	7	3	1	1	0	1	3	N 23° E*	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	67·7	52·1	85·7	...	48·9	...	67·3	..	36·8	96·1	11th	42·3	18th	8	0	0	0	7	0	10	2	4	S 38° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	76·2	74·5	85·3	−1·9	70·5	−3·3	77·9	−2·6	14·8	93·3	1st	67·6	19th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	67·9	67·4	73·9	+0·9	63·7	−1·0	68·8	−0·1	10·2	75·7	24th	61·7	10th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	79·5	+1·9	58·7	+0·7	69·1	+1·3	20·8	84·4	28th	54·8	20th & 31st	6	0	0	6	3	6	4	6	0	S 4° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	92·6	−3·8	55·2	−4·5	73·9	−4·1	37·4	100·2	10th	50·1	22nd	...	...	...	...	...	...	...	...	...	...	...

*1 Wind less.

C—*continued.*

and fifth class stations in India, etc., in August, 1920—*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 1920.	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.
...	...	...	...	...	...	...	...	...	...	...	3	− 6·7	1·31	8·69	−7·38	25·77	21·57	+ 4·20	0·80	Meerut.
...	...	...	...	...	...	...	...	...	...	...	19	−2·6	22·02	29·69	−7·67	62·61	65·27	− 2·66	4·94	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	1		0·29			1·18			0·20	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	4	−4·3	1·95	6·18	−4·23	22·01	17·66	+ 4·35	1·10	Udaipur.
																				XII.—Central Provinces.
2·1	...	...	42	...	81	...	·694	...	6·3	...	10	−2·6	11·04	10·17	+0·87	21·87	27·40	− 5·53	2·90	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	3	−7·0	2·65	6·85	−4·20	8·65	20·72	−12·09	1·53	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	0	−0·9	0·04	0·51	−0·47	1·51	2·96	− 1·45	0·04	Tinnevelly.
...	...	...	...	...	93	...	·900	...	6·4	...	3	−2·0	1·86	3·18	−1·32	5·49	9·76	− 4·27	1·15	Anantapur.
...	...	...	...	...	70	...	·803	...	0·7	...	7	−2·8	5·07	5·57	−0·50	16·43	17·38	− 0·95	1·80	Guntur.
...	...	...	...	...	89	...	·674	...	...	...	15	...	16·85	...	...	35·76	...	...	5·35	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	11	− 2·7	7·15	10·52	−3·37	26·78	45·61	−18·83	1·47	Car Nicobar.
																				Kashmir.
...	...	...	43	...	68	...	·765	...	3·3	...	8	−3·0	4·50	11·35	−6·85	18·44	27·09	− 8·65	1·00	Jammu.
...	...	...	...	...	...	...	...	...	...	...	8	−1·0	2·94	3·47	−0·53	13·35	15·10	− 1·75	0·55	Sonamarg.
...	.	...	36	...	34	...	·227	...	2·3	...	0	−0·7	0	0·15	−0·15	0·81	1·55	− 0·74	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	2	−1·5	2·44	2·24	+0·20	4·70	5·82	− 1·12	2·20	Harnai.
																				Hill stations, exclusive of Kashmir.
...	..	...	...	...	92	+ 4	·830	−·038	...	...	21	−2·1	26·39	31·21	−4·82	76·74	101·66	−24·92	4·80	Panighatta.
...	...	...	...	...	97	+ 4	·664	+·035	...	...	24	−2·2	24·90	36·58	−11·68	83·27	123·65	−40·38	4·30	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	30	+2·3	29·25	31·45	−2·20	96·25	116·69	−20·44	2·90	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	26	0	8·31	11·31	−3·00	33·32	36·41	− 3·09	0·67	Lachung.
..	...	...	...	...	...	...	...	...	...	...	...	...	...	26·86	...	...	109·39	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	12	...	3·51	...	...	37·38	...	...	0·58	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	16	−6·3	25·06	31·29	−6·23	57·81	72·23	−14·42	3·75	Mussooree.
...	...	...	36	...	...	...	...	...	3·3	−2·7	0	−1·5	0·04	0·61	−0·57	4·63	2·40	+ 2·23	0·02	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	−1·8	0·32	1·46	−1·14	4·33	6·31	− 1·98	0·14	Kailang.
...	...	...	...	...	...	...	...	...	0·3	...	0	−0·2	0	0·13	−0·13	0·01	0·44	− 0·43	0	Pishin.

Table

Abstract of observations taken at 8 hrs. at 61 fourth and

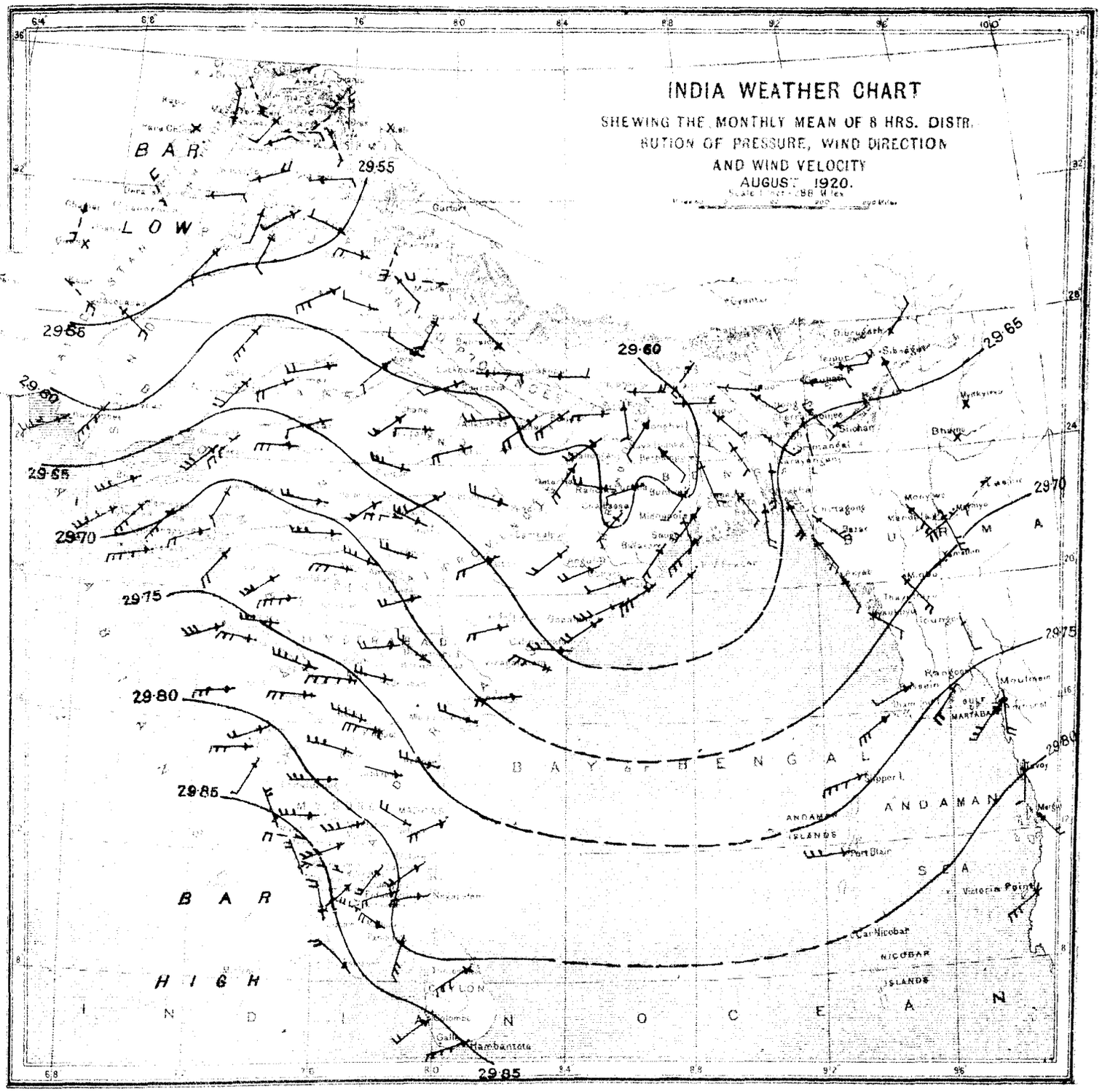
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	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.																								
	Chumbi	54·7	53·3	61·9	...	50·0	...	55·9	...	11·9	69·0	29th	48·1	7th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	97·7	76·6	113·5	...	82·6	...	98·1	...	30·9	119·5	16th & 18th.	78·0	6 days.	0	16	0	0	0	8	7	0	0	N 58° W	...

C—*concluded.*

fifth class stations in India, etc., in August, 1920—*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 1920.	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.
...	...	...	...	...	92	...	·397	...	3·2	...	5	—13·3	2·91	5·89	—2·98	14·49	21·86	—7·37	1·07	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	0	—4·4	0·31	1·53	—1·22	26·03	27·27	—1·24	0·08	Pemba.
...	...	...	20	...	40	...	·642	...	...	...	0	...	0	...	...	0	...	...	0	Abadan.

S.P.I—21—IV-5-(14) -16-1-23—325.

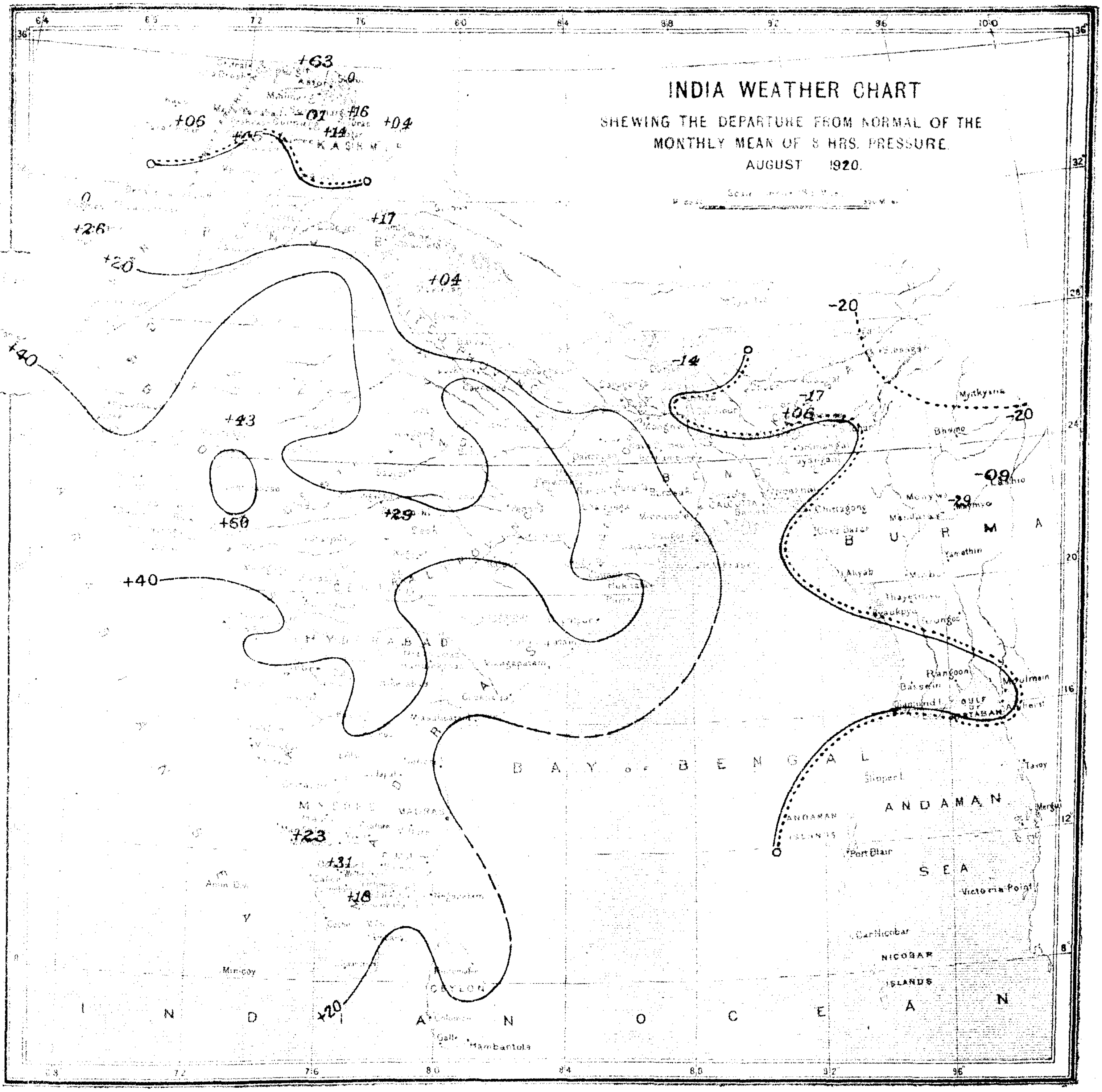


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

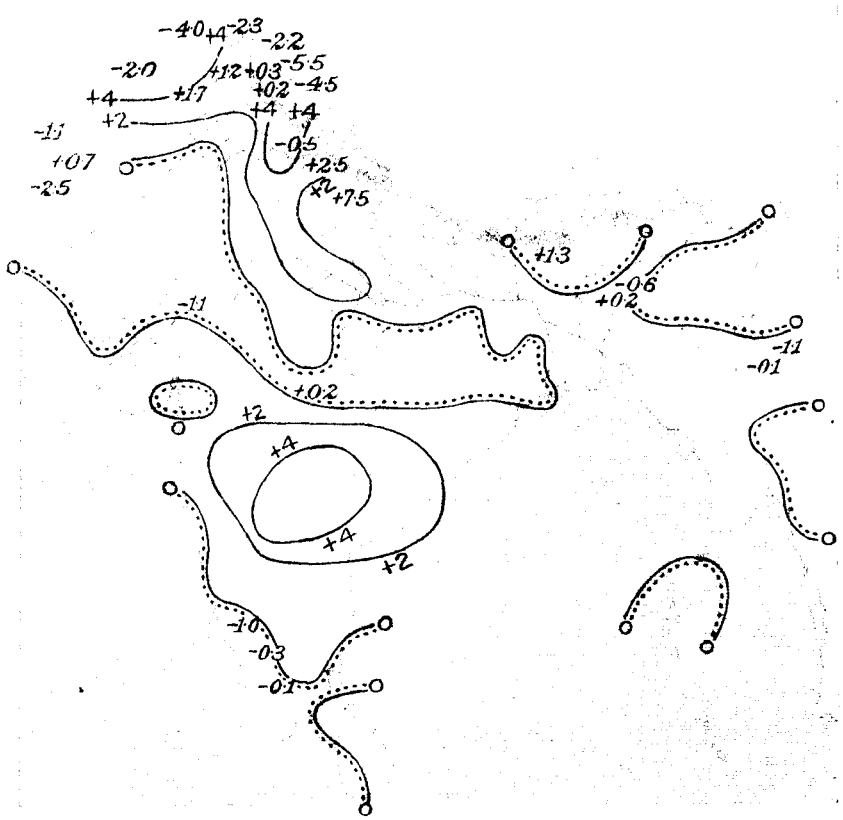


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

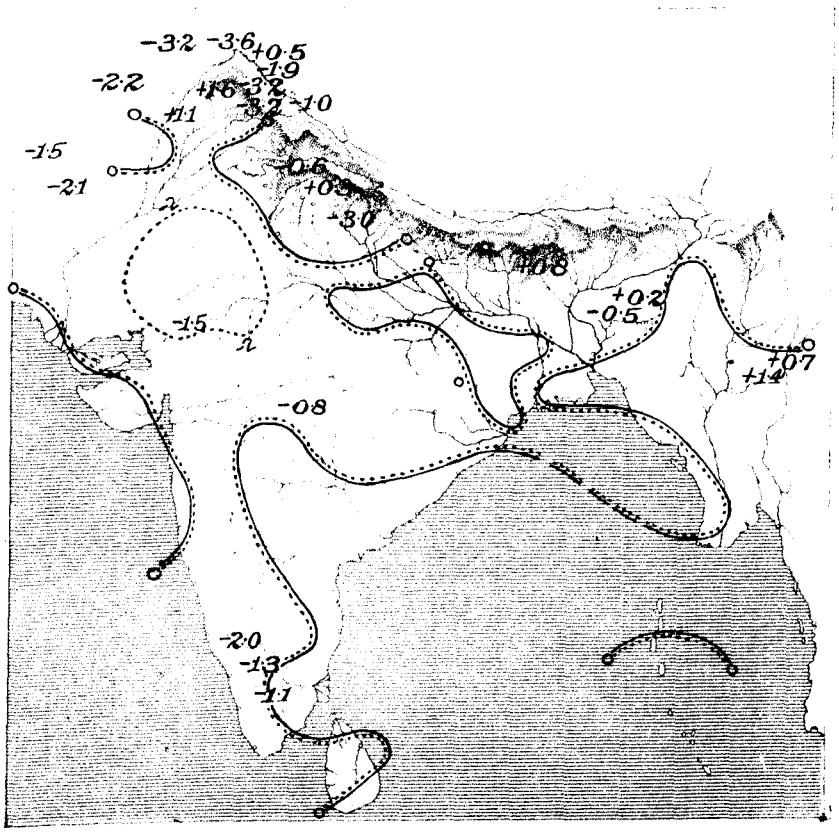


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

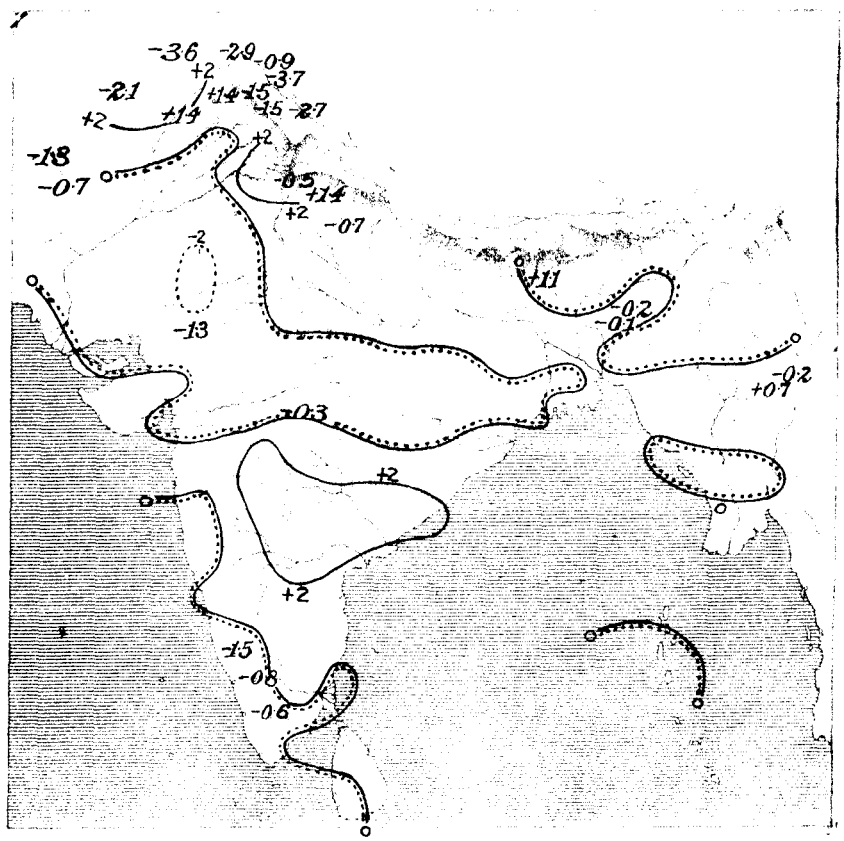


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

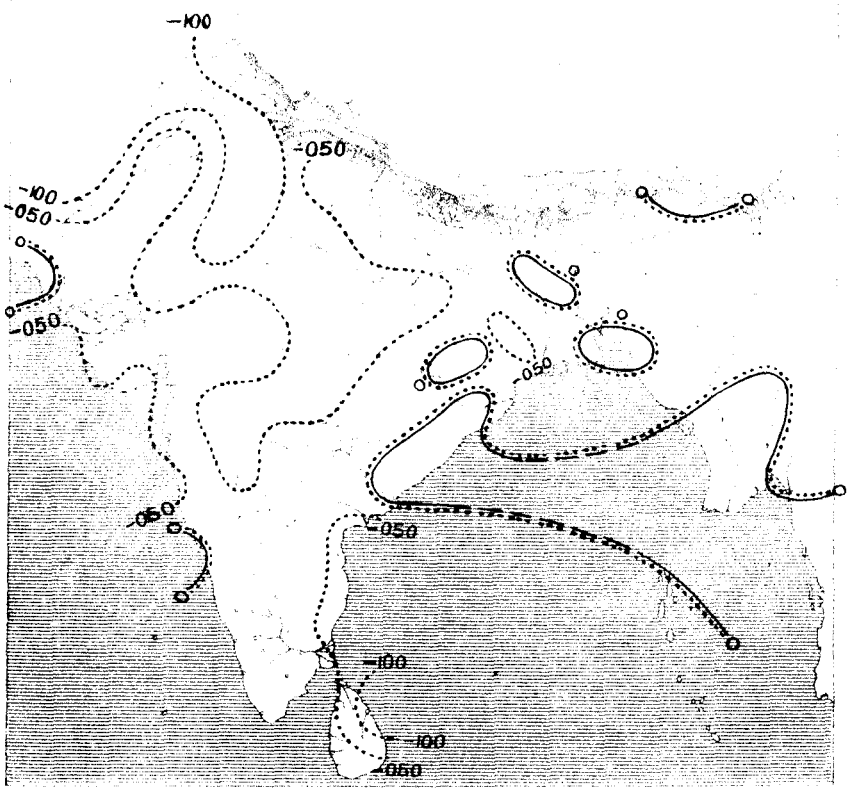


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

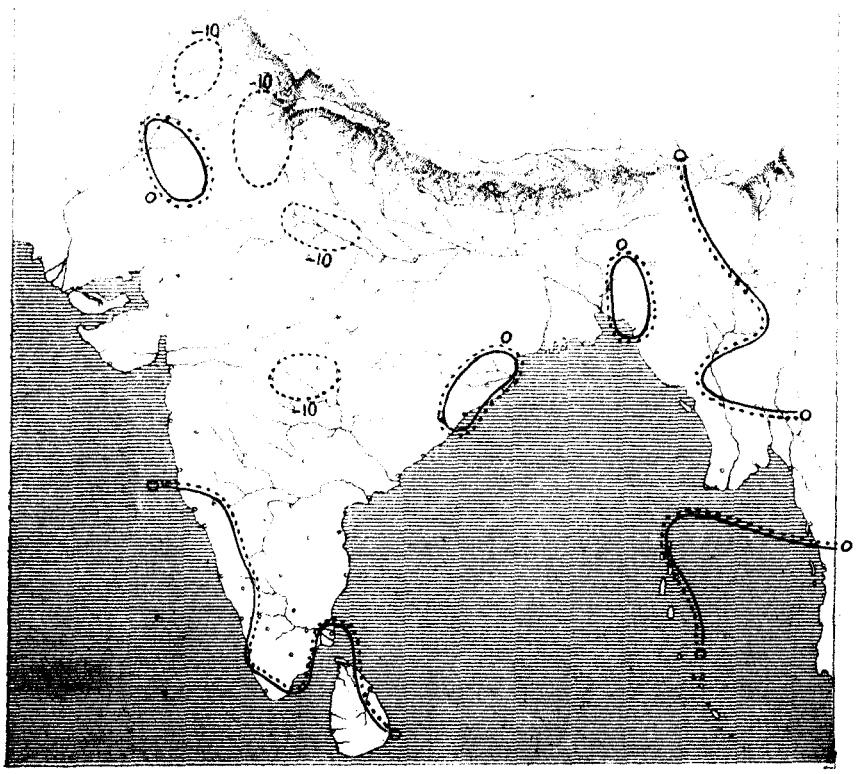


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

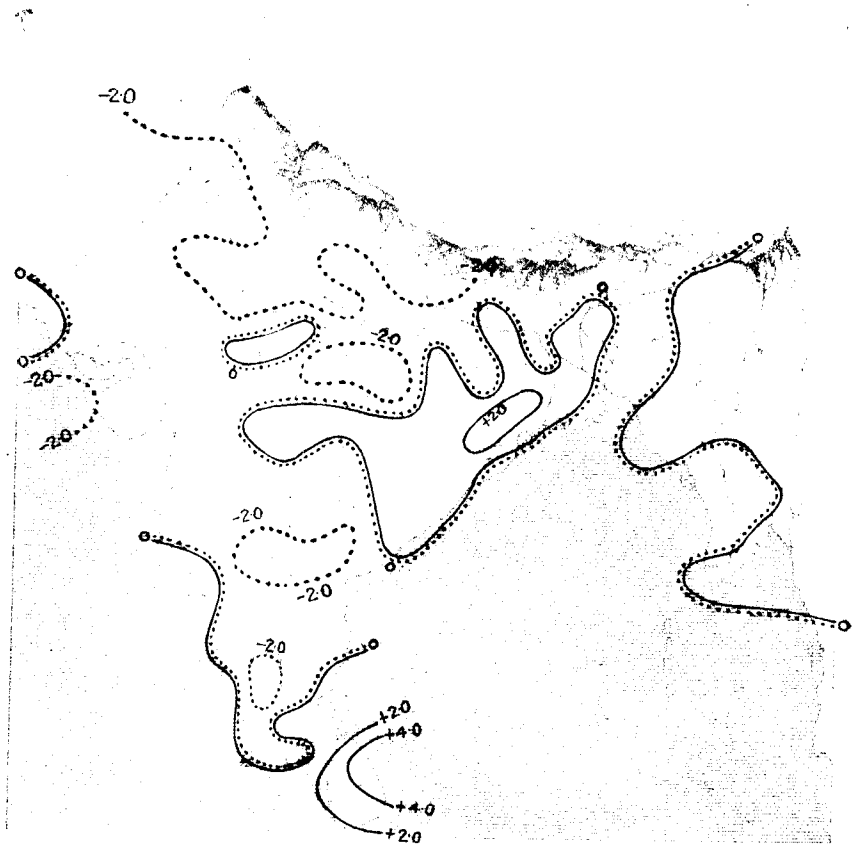
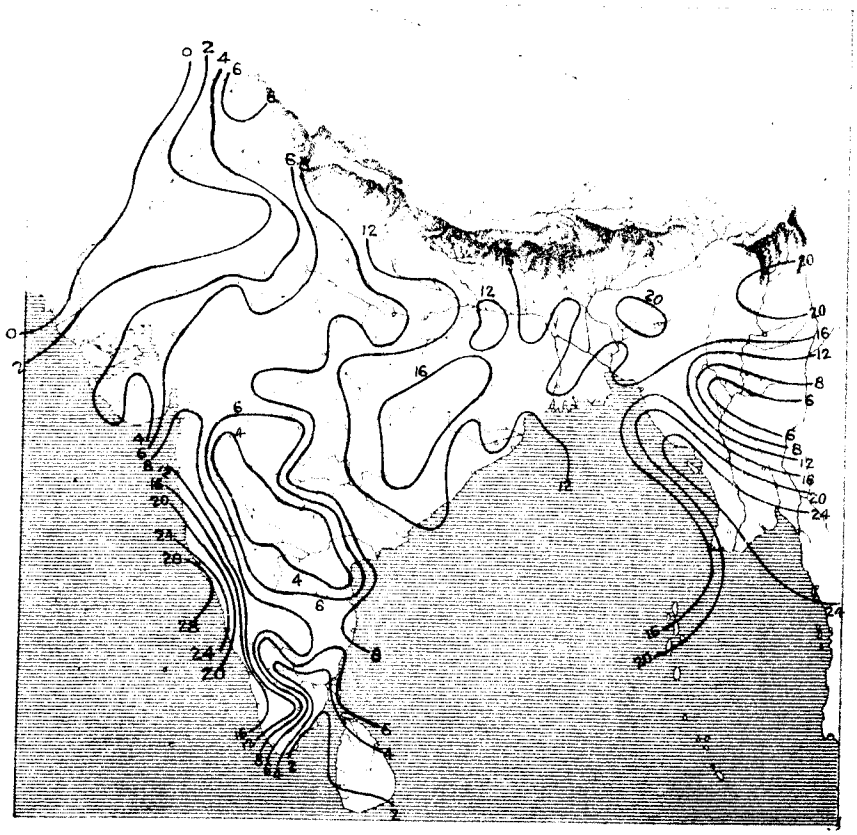
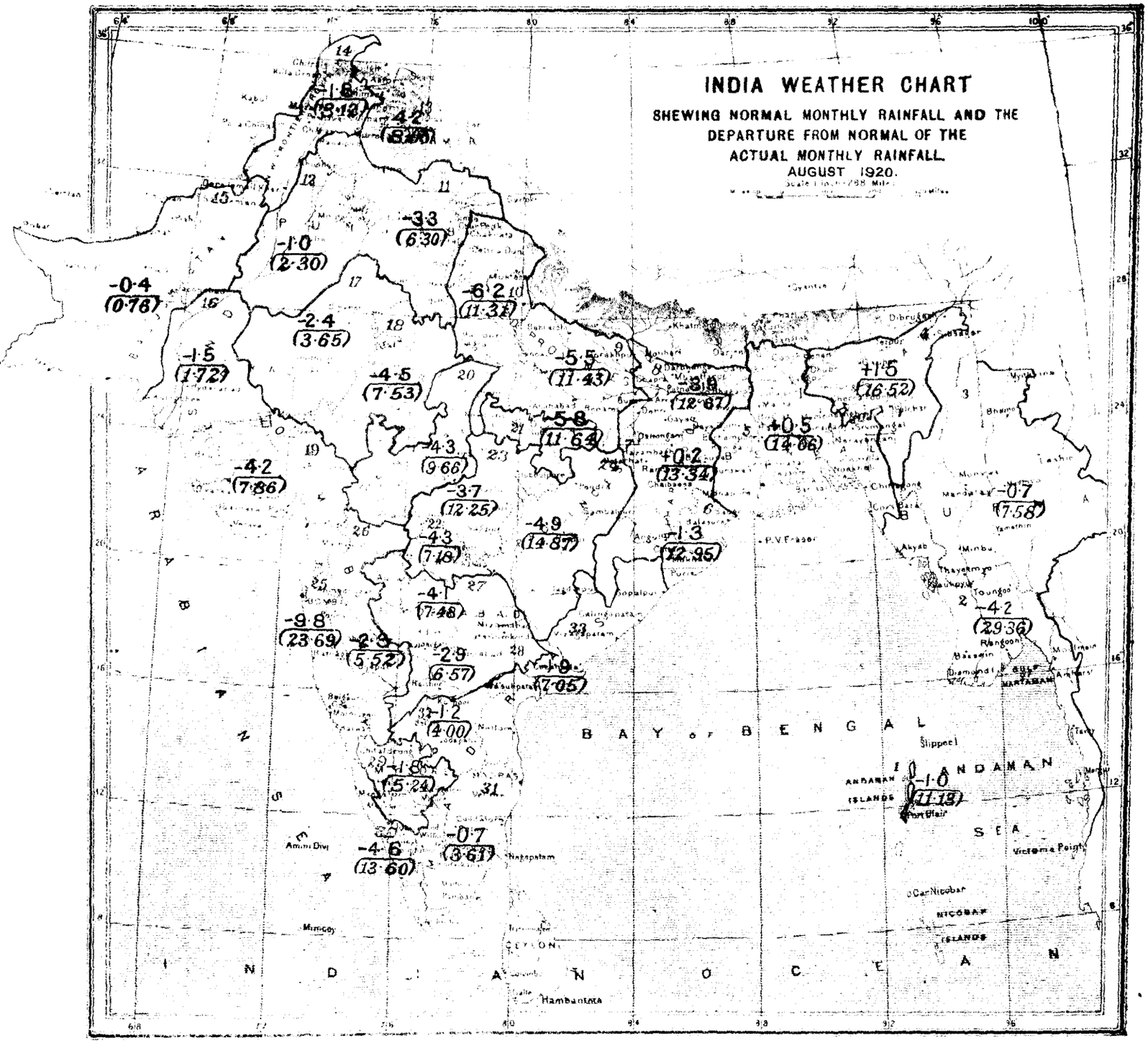


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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 them 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, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of September, 1920, is based on observations taken daily at 8 hrs. at 212 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 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.

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 remained inactive during the greater part of the month except in Burma, northeast India and the southern half of the Peninsula. A depression which formed off the Orissa coast on the 6th and disappeared over Bihar on the 11th, gave heavy rain in Bihar and Bengal causing several floods in these divisions. It also occasioned a general extension of rain into the United Provinces and the central parts of the country between the 7th and 10th; this was the only period in this month of widespread rain in these areas. A feeble depression formed on the 24th in the Andaman Sea and disappeared off the Bengal coast after causing rain in Burma and parts of northeast India. Rainfall occurred in the hills and plains of the north and central Punjab in connection with western disturbances in the latter half of the month.

The total rainfall of the month was above normal in Burma and the greater part of northeast India, nearly normal in Mysore and Madras, and in moderate to large defect over the rest of the country. Sind, Baluchistan and west Rajputana had no rain at all.

Cloud proportion was generally below normal except in Burma. Both absolute and relative humidities were below normal in the Punjab, Rajputana and the United Provinces, and relative humidity alone in Hyderabad, Central India and the Central Provinces. Maximum temperature was below normal except in Burma, northeast India and the southern half of the Peninsula; minimum temperature was above normal in the east and north Punjab, the North-West Frontier Province, Baluchistan and Kathiawar.

Barometric pressure averaged over the plains of India was 0·012″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculæ on all days except the 21st. Prominences could not be observed on 4 days and on two other days the record was imperfect.

Sunspots.—Nine new groups were recorded. The mean daily number was 2·0 and the average life of a spot was 7·2 days, as against 1·8 and 6·3 days respectively in August. The spots were distributed in latitude as follows:—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	1	...	12·°8	8° & 15°
South	3	5	13·°0	11° & 15°

Prominences.—Forty-two prominences reaching a height of 1′ or more and 3 metallic prominences were recorded during the month. The greatest height recorded was 150″ on the 8th.

Magnetic Disturbances.—"Great" disturbances associated with sunspots on or near the central meridian were recorded from the 27th to 29th, "Moderate" disturbances were registered on 12 other days.

T. ROYDS,
Acting 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.

	√	To	ϵ	$\frac{r}{To^2}$
AN :				
AE :	9·76	18·3	1	2·5
AZ :				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
Sep. 4th	e P	14 47 06	...	...	...	...	...	
	e L	14 51 00	...	...	...	...	...	
	M	14 56 36	...	...	130	...	...	
	F	15 41 30	...	...	...	...	...	
„ 6th	e P	21 35 36	...	...	...	...	...	Widening of line.
	F	21 39 12	...	...	...	...	...	
„ 8th	e P	2 5 54	...	...	...	...	...	
	i L	2 11 48	...	...	...	...	...	
	M	2 15 36	...	...	150	...	...	
	F	3 10 00	...	...	...	...	...	
„ 9th	e P	19 13 06	...	...	...	...	...	
	e L	19 53 36	...	...	...	...	...	
	M	19 59 12	...	...	140	...	...	
	F	20 23 18	...	...	...	...	...	
1920.		h. m. s.						
Sep. 20th	e P	14 52 36	...	...	...	...	...	
	i L	14 58 42	...	...		...	...	
	M	15 41 18	...	...	1020	...	...	
	F	18 32 06	...	...	...	...	...	
„ 20th	e P	23 52 36	...	...	...	...	...	Widening of line.
	F	23 54 36	...	...	...	...	...	
„ 21st	e P	3 31 30	...	...	...	...	...	Widening of line.
	F	3 35 06	...	...	...	...	...	
„ 23rd	e P	6 19 00	...	...	...	...	...	Widening of line.
	F	6 21 06	...	...	...	...	...	
„ 24th	e p	6 23 06	...	...	...	...	...	Widening of line.
	F	6 26 42	...	...	...	...	...	

A. A. NARAYANA AIYAR,
Acting Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of September, 1920, the traces showed 6 calm days, 23 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 2nd, 7th, 20th, 21st and 25th.

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	C	10	S	18	S	26	S
3	S	11	S	19	C	27	S
4	S	12	S	20	C	28	M
5	S	13	S	21	C	29	S
6	S	14	S	22	S	30	S
7	C	15	S	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° 19′ 5″.
Horizontal force	0·36919 C. G. S. unit.
Vertical force	0·17163 C. G. S. unit.
Inclination	24° 56′·0.
Horizontal force range . . .	0·00048 C. G. S. unit.
Horizontal force summed range .	0·00270 C. G. S. unit.
Declination range	5′·1.
Declination summed range . .	20′·5.

(NOTE.—Summed range means sum without regard to sign of 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 (E.-W.).

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.
1920.		h. m. s.						
Sep. 20th	P	14 56 4*	...	...	...	...	...	
	M	15 36 55*	...	...	...	...	...	

* These times are given from Colaba Seismograph, No. 1 as the Omori-Ewing Seismograph record is lost owing to the stoppage of the driving clock.

SHAMSHAD ALI KHAN,
for *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	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	REMARKS.
1920.		h. m. s.						
Sep. 7th	P	7 34 6	?	...	...	...	...	
	S	7 34 18	?	...	...	...	...	
	L	7 34 42	2	...	...	...	...	
	F	7 44 18	...	...	...	...	...	
„ 20th	P	14 51 54	3	...	...	...	...	
	S	15 2 42	7	...	...	...	...	
	L	15 13 24	22	...	...	...	...	
	M	15 30 54	...	...	1414	...	...	
	F	17 26 24	...	...	...	...	...	
„ 20th	P	23 40 30	2	...	...	...	...	
	S	23 44 42	5	...	...	...	...	
	L	23 50 12	9	...	...	...	...	
„ 21st	F	0 12 24	...	...	...	...	...	
„ 26th	P	0 2 42	?	...	...	...	...	
	S	0 4 12	2	...	...	...	...	
	L	0 5 42	5	...	...	...	...	
	F	0 38 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	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
Sep. 4th	e	14 38 12	...	...	...	...	...	
	M	15 5 18	...	79	...	...	...	
	F	15 56 48	...	...	...	...	...	Tremors.
„ 7th	e	6 22 24	...	...	...	...	...	
	F	6 37 24	...	...	...	...	...	Italian earthquakes. ?
„ 8th	e	2 4 42	...	...	...	...	...	
	F	3 15 36	...	...	...	...	...	
„ 9th	e	19 20 54	...	...	...	...	...	
	M	19 49 54	...	64	...	...	...	
	F	20 26 00	...	...	...	...	...	
1920.		h. m. s.						
Sep. 20th	e P	14 57 00	...	...	...	...	...	
	S	15 6 54	...	...	...	...	...	
	L	15 21 12	24	...	...	...	...	
	M	15 41 42	...	1179	...	...	...	
	F	17 42 00	...	...	...	...	...	
„ 20th	e P	23 39 06	...	...	...	...	...	
	M	23 43 00	...	43	...	...	...	
	F	23 52 24	...	...	...	...	...	Felt at Kashgar.
„ 23rd	...	...	...	...	...	...	...	Tremors for about 5 minutes at about 20-5-24 hrs. Time marker not marking.

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.
1920.		h. m	Sec.			
Drosh . .	Sep. 12th	18 00	15	7	1	
Kashgar .	„ 20th	23 20	20	.6	3	
Borjuli (Darrang District, Assam.)	„ 26th	0 02	5	7	1	
Sibsagar .	„ 26th	0 20	10	8	2	

S. SITARAMAYYA,
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 two representative stations :—

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	—·018	+·008	Observatory temporarily closed.
Actual mean wind direction . .	S 74° E	S 6° W	
Normal mean wind direction . .	S 71° E	S 5° E	
Actual mean wind velocity (miles per diem).	166	89	
Normal mean wind velocity (miles per diem).	204	98	
Rainfall departure from normal in inches.	+0·55	—0·56	

Depressions and cyclonic storms.

8. Two depressions formed in the north of the Bay during the month. The first developed on the 4th and 5th, and at 8 hours of the 6th was situated centrally in about latitude 17° N and longitude 90° E. Thence moving slowly in a northwesterly direction it lay off the Orissa coast on the 8th. It crossed the coast near Balasore on the morning of the 9th and moved rapidly into Bihar, where it weakened and disappeared during the 11th after giving very heavy rain in Bihar and parts of Bengal. Seven villages were partially washed away in the Banka sub-division of Bihar; Muraram and the adjoining villages in Birbhum were also submerged by flood water. The rainfall was heaviest in the Dinajpur district where in the week ending 15th Atwari had 46 inches and Raniganj 33 inches and most of the other stations about 20 inches. Heavy floods were reported throughout the district and parts of Dinajpur town were also inundated.

A feeble depression formed in the Andaman Sea on the 23rd; moving slowly in a northwesterly direction it was off the Arakan coast on the 27th, and disappeared at the head of the Bay during the 28th. It caused widespread and locally heavy rain in Burma and deltaic Bengal.

Three western disturbances affected the weather in the extreme north on the 17th—18th, the 22nd—23rd and the 29th—30th of the month respectively. Aided by monsoon winds they gave rain in Kashmir, the North-West Frontier Province and the north and central Punjab.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·034
Assam	—·022
Bengal	—·038
Bihar and Orissa	—·019
United Provinces	—·011
Punjab	—·024
North-West Frontier Province	—·043
Sind	—·006
Rajputana	+·004
Bombay	+·004
Central India	+·003
Central Provinces	+·010
Hyderabad	+·010
Mysore	—·005
Madras	—·003

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure, A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference, B—A.
	"		"	"
Quetta	—·016	Jacobabad	—·018	—·002
Leh	—·016	Lahore	—·031	—·015
Murree	—·008	Peshawar	—·053	—·045
Simla	0	Ludhiana	—·023	—·023
Mukteswar	—·013	Bareilly	—·014	—·001
Darjiling	—·028	Dhubri	—·032	—·004
Mount Abu	+·018	Deesa	+·021	+·003
Pachmarhi	+·009	Khandwa	+·012	+·003
Kodaikanal	—·004	Madura	+·004	+·008

Temperature.

10. Table 11 gives the actual temperature 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	84·3	76·8	80·5	7·5	−0·4	+0·1	−0·5
2. Lower Burma	85·7	75·5	80·6	10·2	+0·4	0	+0·4
3. Upper Burma	89·9	75·2	82·5	14·7	0	+0·3	−0·3
4. Assam	88·1	75·4	81·7	12·7	−0·4	−0·5	+0·1
5. Bengal	88·1	77·7	82·9	10·4	−0·2	−0·1	−0·1
6. Orissa	90·2	77·8	84·0	12·4	+1·1	−0·1	+1·2
7. Chota Nagpur	88·8	74·9	81·9	14·0	+0·5	+0·1	+0·4
8. Bihar	88·6	77·0	82·8	11·6	−0·9	−0·7	−0·2
9. United Provinces, East	93·9	76·5	85·2	17·5	+2·7	−0·5	+3·2
10. Do. do., West	96·4	75·9	86·1	20·5	+4·6	+0·3	+4·3
11. Punjab, East and North	98·7	75·9	87·3	22·8	+4·4	+2·0	+2·4
12. Do., South-west	101·7	75·7	88·7	26·0	+2·7	+0·7	+2·0
13. Kashmir	77·8	51·1	64·5	26·7	+0·6	−1·0	+1·6
14. North-West Frontier Province	101·7	75·3	88·5	26·3	+3·9	+2·6	+1·3
15. Baluchistan	94·4	63·3	78·8	31·1	+4·7	+4·7	0
16. Sind	95·5	77·6	86·6	17·9	−0·1	+1·6	−1·7
17. Rajputana, West	100·7	77·7	89·2	22·9	+4·1	+0·6	+3·5
18. Do., East	96·4	76·3	86·4	20·1	+4·5	+0·7	+3·8
19. Gujarat	93·1	76·5	84·8	16·6	+3·1	+1·3	+1·8
20. Central India, West	90·0	71·2	80·6	18·8	+3·5	+0·7	+2·8
21. Do. do., East	91·2	74·2	82·7	17·0	+2·3	−0·7	+3·0
22. Berar	91·8	72·8	82·3	19·0	+5·0	+1·4	+3·6
23. Central Provinces, West	89·8	72·4	81·1	17·4	+2·7	−0·1	+2·8
24. Do. do., East	88·7	73·3	81·0	15·4	+2·1	+0·5	+1·6
25. Konkan	84·9	76·2	80·5	8·7	+1·3	+1·1	+0·2
26. Bombay Deccan	88·0	69·2	78·6	18·8	+2·6	+0·5	+2·1
27. Hyderabad, North	90·9	71·3	81·2	19·6	+4·5	+0·7	+3·8
28. Do., South	91·6	73·3	82·5	18·3	+4·1	+0·8	+3·3
29. Mysore	83·5	66·6	75·1	16·9	+1·0	+0·8	+0·2
30. Malabar	83·5	74·6	79·1	8·9	−0·3	+0·3	−0·6
31. Madras, South-east	92·4	75·5	84·0	16·9	0	+0·2	−0·2
32. Do., Deccan	92·3	74·6	83·5	17·6	+1·1	+0·5	+0·6
33. Do., Coast, North	92·5	78·8	85·6	13·7	+2·1	+0·9	+1·2

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—The northerly component was stronger than usual in Bihar, north Bengal and the Deccan plateau.

The following table gives the mean wind velocity and steadiness with their departures from normal:—

TABLE 13.

—	HOURLY WIND VELOCITY.		WIND STEADINESS.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	3·1	+0·1	34	—11
Assam	2·4	+0·2	35	+23
Bengal	2·3	—0·5	31	—12
Bihar and Orissa	2·8	—0·2	31	0
United Provinces	1·5	—0·6	21	+ 3
Punjab	2·7	+0·4	38	+ 8
North-West Frontier Province.	1·0	—0·7	23	— 7
Sind	8·4	+0·8	90	+22
Rajputana	5·6	+1·1	72	+18
Bombay	5·0	—1·4	54	— 2
Central India	3·3	—0·6	63	+17
Central Provinces	3·8	+0·1	61	+15
Hyderabad	5·6	—0·8	66	+ 1
Mysore	5·4	+0·1	84	+ 5
Madras	4·3	—0·2	61	0

Upper air.—The monthly mean velocities and directions at different heights above Agra, Lahore and Bangalore during the month are given in the following table.

TABLE 14.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.			
	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	31	2·1	1·4	261	30	0·4	0·3	120	24	3·9	3·3	274
0·5	31	8·9	6·8	287	29	5·3	1·6	192	...	...	...	...
1·0	30	9·3	7·7	306	30	4·3	2·1	256	24	4·9	4·0	296
1·5	29	7·6	6·6	323	30	3·7	1·7	279	24	5·7	5·1	299
2·0	29	6·4	5·7	329	29	3·9	2·3	289	21	5·9	4·6	310
2·5	27	6·5	5·9	330	30	4·7	2·9	291	18	6·4	4·8	315
3·0	24	6·8	6·0	334	30	5·9	4·1	307	13	5·7	3·5	335
3·5	20	6·7	5·6	334	30	6·5	4·6	319	8	3·6	1·9	32
4·0	18	6·5	5·6	338	29	7·4	5·9	327	7	2·8	1·9	29
4·5	18	6·1	4·7	337	28	8·2	6·5	325	6	2·7	1·5	37
5·0	18	6·0	3·8	326	28	8·1	6·5	319	4	4·0	1·1	22
5·5	18	7·6	4·2	309	28	8·3	6·4	313	3	4·5	3·1	36
6·0	18	8·1	5·5	316	28	9·2	6·7	305	2	4·3	2·9	61
6·5	16	8·6	6·1	303	27	10·3	8·5	302	1	6·0	6·0	85
7·0	15	8·1	6·0	281	26	11·2	10·0	299	1	6·5	6·5	85
7·5	14	6·3	6·1	272	25	13·0	12·0	298	1	6·5	6·5	70
8·0	12	8·3	5·6	274	19	13·6	12·8	293	1	6·5	6·5	75
8·5	10	8·0	6·7	257	17	14·9	14·0	289	1	6·5	6·5	80
9·0	10	8·9	7·7	256	16	16·4	15·5	286	1	7·0	7·0	75
9·5	8	8·2	7·1	262	13	16·1	15·4	282	...	...	...	...
10·0	8	9·1	8·0	267	10	16·1	15·4	280	...	...	...	...
10·5	5	8·8	5·8	249	8	15·2	14·4	278	...	...	...	...
11·0	5	7·1	6·0	261	6	13·7	13·0	279	...	...	...	...
11·5	5	6·8	5·2	254	5	13·8	12·9	280	...	...	...	...
12·0	3	6·7	6·4	246	5	14·0	13·0	281	...	...	...	...
12·5	3	7·7	7·5	247	5	14·9	14·1	283	...	...	...	...
13·0	3	8·5	7·0	256	3	10·0	9·1	273	...	...	...	...
13·5	1	13·0	13·0	250	2	5·3	4·6	274	...	...	...	...
14·0	...	...	...	...	1	4·0	4·0	320	...	...	...	...
14·5	...	...	...	...	1	7·0	7·0	315	...	...	...	...
15·0	...	...	...	...	1	6·5	6·5	325	...	...	...	...
15·5	...	...	...	...	1	7·0	7·0	285	...	...	...	...
16·0	...	...	...	...	1	6·0	6·0	280	...	...	...	...

N = Number of flights.
V = Velocity of wind, regardless of direction, metre per Sec.
v = Velocity of Resultant wind, taking account of direction, metre per Sec.
L = Direction of Resultant wind, North wind = 0° or 360°, East wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours with their departures from normal :—

TABLE 15.

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 . .	89	— 1	·881	—·007	7·7	+0·5
Assam . . .	90	— 1	·895	—·024	6·1	—1·0
Bengal . .	88	— 1	·941	—·014	6·3	—0·4
Bihar and Orissa .	84	— 1	·898	—·010	5·5	0
United Provinces .	73	— 8	·807	—·052	2·3	—1·7
Punjab . .	59	—10	·672	—·069	1·0	—1·0
North-West Frontier Province.	65	— 2	·687	—·011	0·7	—0·5
Sind . . .	72	— 2	·793	+·012	2·1	—0·2
Rajputana . .	58	—11	·656	—·111	1·6	—1·8
Bombay . .	80	— 2	·789	+·004	5·3	—0·4
Central India .	76	— 7	·753	—·033	2·8	—2·5
Central Provinces .	75	— 8	·740	—·032	4·0	—1·5
Hyderabad . .	71	— 7	·703	—·024	5·6	—0·4
Mysore . .	83	— 1	·635	+·002	7·4	—0·5
Madras . .	79	0	·819	+·004	5·6	—0·4

Rainfall.

13. The total rainfall of the month was above normal in Burma, Assam, Bengal, Bihar and Madras Southeast, and nearly normal in Mysore, Malabar and the Madras Deccan. It was in slight defect in the Bay Islands, Orissa, Chota Nagpur and the Bombay Deccan. A moderate to large deficiency was recorded over the rest of the country, little or no rain being received in Sind, Baluchistan and west Rajputana.

TABLE 16.

SUB-DIVISION.	NUMBER OF RAINY DAYS.		RAINFALL.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	12·3	14·8	9·93	11·70	— 1·77	— 15
2. Lower Burma	19·1	18·9	19·91	18·03	+ 1·88	+ 10
3. Upper Burma	10·1	10·4	7·96	7·59	+ 0·37	+ 5
4. Assam	15·2	14·1	12·77	11·85	+ 0·92	+ 8
5. Bengal	13·2	12·1	14·72	10·84	+ 3·88	+ 36
6. Orissa	10·4	12·2	8·03	9·44	— 1·41	— 15
7. Chota Nagpur	8·0	10·3	5·87	8·07	— 2·20	— 27
8. Bihar	11·3	8·7	13·28	8·23	+ 5·05	+ 61

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
9. United Provinces, East	5·4	7·3	3·40	6·84	− 3·44	− 50
10. Do. do., West	2·2	6·0	1·31	5·93	− 4·32	− 78
11. Punjab, East and North	1·6	3·2	0·84	3·21	− 2·37	− 74
12. Do., South-west	0·8	1·2	0·48	0·95	− 0·47	− 49
13. Kashmir	3·9	3·9	2·02	3·78	− 1·76	− 47
14. North-West Frontier Province	1·4	1·9	0·66	1·23	− 0·57	− 46
15. Baluchistan	0·1	0·4	0·03	0·17	− 0·14	− 82
16. Sind	0	0·6	0	0·48	− 0·48	−100
17. Rajputana, West	0·1	2·2	0·04	1·80	− 1·76	− 98
18. Do., East	0·7	4·7	0·41	3·96	− 3·55	− 90
19. Gujarat	2·7	5·6	1·15	4·67	− 3·52	− 75
20. Central India, West	3·0	6·4	2·00	5·31	− 3·31	− 62
21. Do. do., East	3·9	7·1	2·54	6·84	− 4·30	− 63
22. Berar	4·2	7·7	2·14	5·83	− 3·69	− 63
23. Central Provinces, West	4·6	9·6	4·38	7·81	− 3·43	− 44
24. Do. do., East	6·0	9·9	4·40	7·96	− 3·56	− 45
25. Konkan	14·2	15·1	8·28	12·37	− 4·09	− 33
26. Bombay Deccan	7·7	8·0	4·82	5·49	− 0·67	− 12
27. Hyderabad, North	8·4	9·8	4·45	8·10	− 3·65	− 45
28. Do., South	7·9	9·5	3·24	6·74	− 3·50	− 52
29. Mysore	8·4	7·8	4·73	4·98	− 0·25	− 5
30. Malabar	10·9	11·4	6·94	7·60	− 0·66	− 9
31. Madras, South-east	7·9	6·0	6·11	4·45	+ 1·66	+ 37
32. Do., Deccan	8·2	7·8	5·36	5·49	− 0·13	− 2
33. Do., Coast, North	7·6	9·3	4·63	6·99	− 2·36	− 34

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	12·69	11·72	+0·97	+ 8
Assam	12·77	11·85	+0·92	+ 8
Bengal	14·72	10·84	+3·88	+36
Bihar and Orissa	10·24	8·46	+1·78	+21
United Provinces	2·28	6·35	−4·07	−64
Punjab	0·75	2·66	−1·91	−72
North-West Frontier Province	0·66	1·23	−0·57	−46
Sind	0	0·48	−0·48	−100

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Rajputana	0·30	3·30	−3·00	−91
Bombay	4·30	6·47	−2·17	−34
Central India	2·21	5·89	−3·68	−62
Central Provinces	3·80	7·35	−3·55	−48
Hyderabad	3·88	7·46	−3·58	−48
Mysore	4·73	4·98	−0·25	−5
Madras	5·85	5·85	0	0
Mean of India	5·49	6·72	−1·23	−18

Snowfall.

I.—THE NORTH-WEST FRONTIER PROVINCE.

14. Drosh.—Three falls (varying from half an inch to 6 inches) occurred at heights of 15,000 feet.

II.—KASHMIR.

(*a*) *Gulmarg.*—Light falls occurred on 4 days on the higher mountains round the station; there was a heavy fall on the 26th, which extended to the lower heights.

(*b*) *Srinagar.*—Two light falls were observed on the surrounding high mountains on the 24th and 30th.

(*c*) *Skardu*—Snow fell on the mountains round Skardu on the 23rd, 24th, 29th and 30th; but the amounts are not known. The depth of the accumulation on the mountains at the end of the month is not known.

(*d*) *Dras*—Had half an inch of snow on the 30th.

(*e*) *Kargil*—An inch of snow fell on the 2nd and two inches on the 29th on the higher mountains.

III.—THE UNITED PROVINCES.

Almora.—Reports from Patwaris are as follows:—

Actual falls.

TABLE 18.

Locality.	Depth.	Descent below perpetual snowline.
	Feet.	
Malla Johar	5	...
Malla Danpur	6	...
Chaudas	2	¼ mile.

Snow fell also on the Pindari, Kaphini, Kasaila, Pualidwar peaks in Danpur and on Untadhura and Ralam Peaks; in the Milam and Bagwodyar passes in Johar, its depth was about a foot.

TABLE 19.

Accumulations.

Name of pass or peak.	Depth of accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Binkaru pass	5½	9
Milamdhura	3	11½
Bagwadwar	1½	
Pindari peak	½	2¾
Kaphini "	½	2½
Kuntela "	½	2½

IV.—THE EASTERN HIMALAYAS.

Yatung, *Gangtok*—No snow fell.

Sadiya Frontier Tract—Snow was noticed on Dapha Bum (15,000 feet).

Summary.

15. The accumulations at the end of the month in the Almora hills were below normal.

S. SITARAMAYYA,
Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in September, 1920.

Table

Abstract of observations taken at 10 hrs. and 16 hrs. at 13

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure. 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.	Temperature of air. 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.	Temperature, Wet-bulb. 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	29·701	29·591	·110	29·647	−·035	29·615	89·2	79·0	10·2	93·3	75·6	17·7	85·4	85·5	83·8	+1·2	77·1	80·4	80·4	79·3
	VI.—Punjab.																					
11	Lahore	702	28·995	28·889	·106	28·934	−·038	29·582	100·4	77·1	23·3	105·4	70·5	34·9	90·7	99·4	87·7	+2·9	70·8	75·9	77·6	74·7
	IX.—Rajputana.																					
18	Jaipur	1,431	28·360	28·252	·108	28·303	−·001	29·636	99·0	73·8	25·2	104·5	70·1	34·4	90·5	97·0	84·9	+2·5	67·3	73·1	73·4	71·3
	X.—Bombay.																					
25	Bombay	37	29·847	29·751	·096	29·797	+·006	29·774	86·6	78·1	8·5	89·6	75·8	13·8	82·0	83·9	81·3	+1·9	73·5	77·6	78·0	76·4
	XIV.—Mysore.																					
29	Bangalore	3,021	26·936	26·809	·117	26·875	+·001	28·717	82·9	66·3	16·6	87·4	62·7	24·7	75·6	79·5	72·8	+1·0	65·2	69·3	69·7	68·1
	XV.—Madras.																					
30	Trivandrum	198	29·731	29·627	·104	29·685	−·005	29·813	82·6	74·3	8·3	84·7	72·1	12·6	80·2	80·5	77·3	−0·7	73·0	75·1	75·0	74·4
31	Pudukkottai	318	29·559	29·424	·135	29·491		29·735	94·2	75·3	18·9	100·2	71·1	29·1	85·8	91·1	84·7			75·0	76·6	
	Madras	22	29·812	29·685	·127	29·758	−·019	29·711	95·7	78·8	16·9	102·9	73·7	29·2	88·6	90·5	86·2	+2·3	74·2	77·4	78·2	76·6
	Kashmir.																					
13	Srinagar	5,204	24·833	24·733	·100	24·783	−·020	24·754	80·4	52·9	27·5	87·7	46·8	40·9	69·3	77·2	66·6	+2·6	51·7	60·9	65·9	59·5
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·600	25·545	·055	25·570	+·047	25·524	82·5	64·7	17·8	86·4	57·4	29·0	75·9	76·9	73·2	0	62·5	69·1	70·2	67·3
	Kodaikanal	7,688	22·819	22·751	·068	22·785		22·721	63·7	52·1	11·6	66·6	48·8	17·8	60·7	58·4	57·9		50·5	57·1	56·5	54·7
	Extra India.																					
	Seychelles	15					•											•				
	Mauritius	181				29·985	−·018	30·056	77·2	61·0	16·2	80·2	55·6	24·6			68·4	−1·3				

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.

A.

stations in India, etc., in September, 1920.

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.	
·902	·971	·955	·948	−·004	91	80	76	83	− 3	7·7	8·1	7·9	0	4	3	4	8	8	8	10	4	11	S 18° W	S 9° W	13	46	69	71	9·36	2·92	Calcutta	5
																															VI.—Punjab.	
·670	·694	·650	·682	−·036	72	49	35	55	− 6	0·3	0·2	0·3	−1·6	17	3	5	0	7	8	4	4	12	S 83° W	N 46° E	12	59	33	37	0·26	0·25	Lahore	11
																															IX.—Rajputana.	
·594	·600	·529	·592	− 100	71	42	31	53	−16	1·8	3·5	2·7	−1·8	1	1	2	1	0	2	19	23	11	S 83° W	N 42° W	70	43	86	74	0·12	0·12	Jaipur	18
																															X.—Bombay.	
·762	·879	·876	·846	−·026	79	82	76	80	− 6	6·3	5·3	5·8	−1·1	0	1	3	4	3	3	7	26	13	N 86° W	N 83° W	53	52	144	189	4·05	1·06	Bombay	25
																															XIV.—Mysore.	
·608	·645	·610	·633	+·010	94	73	62	78	− 1	8·2	8·2	8·2		2	3	0	0	1	1	7	32	14	N 82° W	S 84° W	78	83	131	123	6·64	1·83	Bangalore	29
																															XV.—Madras.	
·795	·802	·795	·797	+·016	94	78	76	83	− 1	8·9	8·3	8·6	+2·1	1	1	0	0	0	0	0	24	24	N 70° W	N 63° W	92	81	126	142	5·31	3·07	Trivandrum	30
	·721	·719				59	53			4·2	6·3	5·3		15	3	0	0	0	6	9	19	8	S 83° W		52		82		9·59	2·45	Pudukkottai	31
·782	·789	·800	·801	−·047	80	59	57	67	−10	6·3	6·6	6·5	+0·2	2	3	4	5	10	0	6	17	13	N 76° W	S 35° W	27	53	62	105	0·47	0·22	Madras.	
																															Kashmir.	
·371	·445	·510	·442	−·056	92	62	54	70	−10	2·0	2·0	2·0	−1·3	23	3	2	0	6	2	1	6	17	N 55° W	N 33° W	27	17	43	58	1·54	0·41	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·543	·638	·663	·617	− 016	89	71	72	79	− 2	5·8	6·4	6·1	−0·2	0	1	0	15	0	0	0	14	0	N 45° E	N 87° W	2	11	5	12	4·26	1·15	Katmandu.	
·352	·430	·437	·406		91	82	90	88		7·1	9·5	8·3		3	11	4	2	5	6	1	12	16	N 47° W		37		166		12·39	2·12	Kodaikanal.	
																															Extra India.	
													*											S 40° E		87		210			Seychelles.
			·534	+·015				76	+ 4			5·2	+0·1										S 74° E	S 71° E			166	204	1·93	0·58	Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in September, 1920.

(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 2,500 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	87·4	+0·2	75·4	+0·1	81·4	+0·2	12·1	+0·1	−11	89	−1	·881	−·007	7·7	+0·5	12·69	11·72	+0·97
Assam	−·022	88·1	−0·4	75·4	−0·5	81·7	−0·4	12·7	+0·2	+23	90	−1	·895	−·024	6·1	−1·0	12·77	11·85	+0·92
Bengal	−·038	88·1	−0·2	77·7	−0·1	82·9	−0·1	10·4	−0·5	−12	88	−1	·941	−·014	6·3	−0·4	14·72	10·84	+3·88
Bihar and Orissa	−·019	89·1	+0·1	76·7	−0·3	82·9	−0·1	12·4	−0·2	0	84	−1	·898	−·010	5·5	0	10·24	8·46	+1·78
United Provinces of Agra and Oudh	−·011	95·1	+3·6	76·2	−0·2	85·6	+1·7	18·9	−0·6	+3	73	−8	·807	−·052	2·3	−1·7	2·28	6·35	−4·07
Punjab	−·024	99·7	+4·0	75·8	+1·7	87·7	+2·9	23·9	+0·4	+8	59	−10	·672	−·069	1·0	−1·0	0·95	2·66	−1·91
North-West Frontier Province	−·043	101·7	+3·9	75·3	+2·6	88·5	+3·3	26·3	−0·7	−7	65	−2	·687	−·011	0·7	−0·5	0·66	1·23	−0·57
Sind	−·006	95·5	−0·1	77·6	+1·6	86·6	+0·8	17·9	+0·8	+22	72	−2	·793	+·012	2·1	−0·2	0	0·48	−0·48
Rajputana	+·004	98·1	+4·3	76·9	+0·6	87·5	+2·5	21·2	+1·1	+18	58	−11	·656	−·111	1·6	−1·8	0·35	3·24	−2·89
Bombay	+·004	89·5	+2·5	74·0	+1·0	81·8	+1·8	15·6	−1·4	−2	80	−2	·789	+·004	5·3	−0·4	4·30	6·47	−2·17
Central India	+·003	96·6	+2·9	72·7	+0·1	81·6	+1·5	17·9	−0·6	+17	76	−7	·753	−·033	2·8	−2·5	2·16	5·81	−3·65
Central Provinces	+·010	89·9	+3·1	72·7	+0·4	81·3	+1·8	17·2	+0·1	+15	75	−8	·740	−·032	4·0	−1·5	3·80	7·35	−3·55
Hyderabad	+·010	91·4	+4·3	72·7	+0·8	82·1	+2·5	18·7	−0·8	+1	71	−7	·703	−·024	5·6	−0·4	3·88	7·46	−3·58
Mysore	−·005	83·5	+1·0	66·6	+0·8	75·1	+0·9	16·9	+0·1	+5	83	−1	·635	+·002	7·4	−0·5	4·73	4·98	−0·25
Madras	−·003	90·9	+0·6	76·1	+0·4	83·5	+0·5	14·8	−0·2		79	0	·819	+·004	5·6	−0·4	5·85	5·85	0

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	29·743		29·821	29·838	15th	29·658	5th	76·3	75·9	83·4		74·8		79·1		8·6	89·2	29th	70·8	3rd
	Mergui	66	29·806	—·038	29·862	29·916	15th	29·696	5th & 25th.	76·6	75·7	84·8	+0·3	73·7	+0·8	79·3	+0·5	11·1	88·8	18th	72·4	20th
	Tavoy	19	29·839	—·050	29·790	29·956	15th	29·710	5th & 25th.	77·2	76·0	84·1	+0·1	74·9	+0·8	79·5	+0·5	9·2	88·9	17th	72·6	3rd
	Moulmein	94	29·763	—·035	29·778	29·898	15th	29·588	5th	78·2	76·3	84·0	—0·8	75·0	+0·4	79·6	—0·2	9·0	88·7	22nd	73·0	3rd
	Rangoon	18	29·806	—·034	29·762	29·937	15th	29·615	5th	79·7	77·8	86·5	+0·8	76·3	+0·3	81·4	+0·5	10·2	90·2	1st	72·1	7th
	Bassein	27	29·795	—·038	29·758	29·922	15th	29·600	5th	80·6	78·4	87·2	+1·6	75·8	—0·3	81·5	+0·7	11·4	92·2	23rd	73·4	23rd
	Diamond Island	41	29·769	—·040	29·744	29·891	15th	29·592	5th	81·9	78·3	85·6	+1·0	77·9	+1·6	81·7	+1·3	7·7	87·8	11th	74·5	18th
	Toungoo	164	29·657	—·009	29·758	29·797	15th	29·489	5th	79·9	78·4	88·9	—0·1	73·9	—1·4	81·4	—0·7	15·0	92·5	25th	70·6	17th
	Kyaukpyu	18	29·757		29·715	29·899	21st	29·575	5th	79·9	77·3	85·9		76·8		81·4		9·1	88·9	2nd	74·5	16th & 25th.
	Akyab	20	29·738	—·059	29·697	29·894	21st	29·512	5th	80·3	78·5	86·7	+0·3	76·2	—1·6	81·4	—0·7	10·5	91·0	26th	73·8	28th
3	Minbu	*165*	29·615	—·044	29·723	29·770	21st	29·453	4th	80·3	77·5	90·5	+0·2	77·3	+0·5	83·9	+0·3	12·2	97·3	25th	74·3	17th
	Yamethin	644	29·151	—·035	29·744	29·286	21st	28·988	4th	79·1	75·9	90·7	0	75·3	+0·6	83·0	+0·3	15·4	96·5	25th	72·4	17th
	Mandalay	250	29·542	—·032	29·738	29·701	21st	29·371	4th	84·0	77·5	94·5	+1·7	78·3	+1·3	86·4	+1·5	16·2	102·1	26th	74·9	21st
	Monywa	*980*	29·512	—·018	29·740	29·693	21st	29·339	4th	82·0	77·3	93·7	+1·9	77·8	+0·1	85·7	+1·0	15·9	102·0	26th	74·1	21st
	Lashio	*2,320*	27·041	—·026	26·887	27·179	20th	26·891	4th	72·1	70·0	83·2	—0·9	68·4	+0·5	75·8	—0·2	14·8	89·0	7th	64·2	24th
	Bhamo	*361*	29·411	—·025	29·725	29·59[illegible]	21st	29·25[illegible]	4th	77·2	75·7	89·0	—0·8	74·8	+0·2	81·9	—0·3	14·2	94·6	26th	71·7	29th
	Myitkyina	458	29·30[illegible]	—·010	29·728	29·493	21st	29·150	4th	76·6	74·9	87·5	—2·3	74·2	—1·4	80·9	—1·9	13·3	95·6	7th	70·2	29th & 30th.
	II.—Assam.																					
4	Dibrugarh	352	29·413	—·022	29·727	29·594	21st	29·297	8th	78·4	76·3	87·1	+0·1	74·1	—0·7	80·6	—0·3	13·0	94·5	9th	70·3	18th
	Sibsagar	333	29·433	—·044	29·725	29·617	21st	29·322	3rd	78·2	76·9	87·6	—0·2	76·6	+0·3	82·1	+0·1	11·0	94·4	9th	73·0	18th
	Tezpur	252	29·526	—·004	29·738	29·731	21st	29·376	2rd	78·4	76·3	89·1	+0·4	75·7	—1·1	82·4	—0·3	13·4	94·4	5th	72·8	19th & 30th.
	Gauhati	196	29·579	—·006	29·731	29·792	21st	29·455	3rd	80·7	77·6	88·8	—1·1	76·0	—0·7	82·4	—0·9	12·8	93·8	5th & 27th.	73·6	7th
	Dhubri	115	29·633	—·032	29·703	29·844	20th	29·497	4th	78·3	76·6	83·8	—2·1	76·2	—1·0	79·7	—1·5	7·1	88·2	25th	71·0	18th
	Silchar	104	29·678	—·020	29·734	29·864	21st	29·533	4th	80·9	77·9	90·[illegible]	+0·6	76·3	0	83·3	+0·3	14·1	97·8	26th	72·7	18th
	Srimangal	66	29·698		29·714	29·898	21st	29·558	3rd	79·9	77·2	90·2	—0·8	72·7	—3·0?	81·4	—1·9?	17·5	95·7	6th	67·4	19th
	III.—Bengal.																					
5	Cox's Bazar	36	29·723		29·704	29·905	21st	29·537	5th	80·7	78·4	86·7		75·9		81·3		10·8	90·7	26th	72·7	18th
	Chittagong	37	29·666	—·043	29·699	29·861	21st	29·482	5th	79·8	77·7	87·3	+0·5	76·5	+0·2	81·9	+0·2	10·8	92·4	8th & 26th.	72·8	18th
	Noakhali	43	29·712	—·037	29·703	29·929	21st	29·537	5th	80·7	78·8	86·6	+0·1	77·4	0	82·0	+0·1	9·2	92·8	7th	74·3	18th
	Barisal	12	29·710	—·042	29·675	29·919	21st	29·537	5th	82·1	79·7	87·8	—0·2	77·8	—0·3	82·7	—0·2	10·0	92·1	7th & 27th.	74·9	3rd & 30th.
	Narayanganj	26	29·719	—·039	29·689	29·931	21st	29·535	4th	82·2	79·6	87·9	—0·6	78·1	—0·8	82·9	—0·7	9·8	93·5	7th	76·2	2nd & 27th.
	Mymensingh	63	29·673	—·046	29·667	29·881	21st	29·534	4th	81·2	78·4	87·5	—0·1	77·9	+0·2	82·7	+0·1	9·6	93·3	7th	72·8	18th
	Bogra	75	29·652	—·045	29·679	29·874	21st	29·518	3rd	82·4	79·7	88·1	—0·5	77·9	+0·2	83·0	—0·1	10·2	93·7	7th	73·5	19th
	Dinajpur	123	29·584	—·045	29·672	29·812	21st	29·464	3rd	80·2	77·3	87·1	—1·5	76·9	—0·6	82·0	—1·1	10·2	92·8	7th & 8th	73·5	13th & 16th.
	Jalpaiguri	283	29·468	—·023	29·710	29·664	20th	29·350	4th	77·6	75·8	86·6	—1·1	75·0	—0·8	80·8	—0·9	11·6	95·6	7th	71·7	13th

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

B.

stations in India, etc., in September, 1920.

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, 1920.	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.
8	0	0	3	3	1	5	10	0	S 52° W		6·5			33		89		·859		8·7		21	− 2·6	22·43	30·91	− 8·48	113·54	137·96	−24·42	3·95	Victoria Point.
13	0	0	6	8	2	1	0	0	S 53° E	S 76° W	4·3	1·2	+3·1	46	−12	96	+ 3	·877	+·004	6·0	−0·2	24	+ 1·0	27·72	26·75	+ 0·97	118·09	135·12	−17·03	2·87	Mergui.
23	1	0	0	1	2	2	0	1	S 31° W	S 64° W	1·6	0·8	+0·7	7	− 4	94	+ 1	·875	+·006	9·0	+2·0	21	− 1·7	48·33	33·10	+15·23	219·43	196·39	+23·04	5·80	Tavoy.
11	0	1	5	8	2	2	1	0	S 47° E	S 12° E	2·3	2·3	0	40	+ 3	91	− 1	·883	+·004	9·5	+2·1	20	− 2·0	33·17	27·84	+ 5·33	195·59	174·06	+21·53	6·25	Moulmein.
5	2	2	2	3	10	4	1	1	S 5° E	S 50° W	3·1	2·6	+0·5	37	−11	91	− 1	·924	+·011	9·4	+1·0	22	+ 2·5	14.67	15·25	− 0·58	84·10	86·70	− 2·60	2·11	Rangoon.
14	0	0	0	3	7	4	0	2	S 11° W	S 5° W	1·7	2·9	−1·2	37	0	91	− 2	·948	+·017	6·2	−0·9	17	− 3·2	12·76	15·24	− 2·48	89·69	95·81	− 6·12	1·92	Bassein.
0	1	2	1	2	2	11	7	4	S 66° W	S 51° W	6·4	5·8	+0·6	48	+ 8	85	− 1	·918	+·014	8·8	+1·5	16	− 1·7	15·25	17·80	− 2·55	103·69	102·05	+ 1·64	2·22	Diamond Island.
10	1	1	0	13	1	4	0	0	S 32° E	S 32° E	1·8	2·3	−0·5	43	−12	93	+ 3	·944	+·027	8·8	+0·6	17	− 0·6	9·83	12·13	− 2·30	58·46	70·86	−12·40	1·00	Toungoo.
25	0	0	3	2	0	0	0	0	S 72° E		0·7			13		87		·899		7·2		19	− 0·3	21·68	18·48	+ 3·20	156·90	158·36	− 1·46	5·00	Kyaukpyu.
8	1	6	5	6	3	1	0	0	S 78° E	N 87° E	2·6	2·2	+0·4	43	−12	91	− 2	·945	−·016	8·1	+0·6	15	− 4·0	24·99	21·15	+ 3·84	207·11	178·27	+28·84	5·67	Akyab.
0	0	0	3	17	3	0	0	7	S 45° E	S 42° E	3·1	6·0	−2·9	36	−21	88	+ 2	·906	+·020	5·7	−0·6	13	+ 3·3	12·00	6·20	+ 5·80	33·09	26·75	+ 6·34	3·56	Minbu.
																85	− 2	·848	−·015	6·4	−0·1	10	− 0·5	4·88	7·02	− 2·14	15·80	27·76	− 8·96	0·93	Yamethin.
29	0	0	0	0	1	0	0	0	S	S 3° W	3·9	3·4	+0·5	3	−52	75	− 8	·864	− 026	6·4	+0·6	5	− 3·8	3·35	5·92	− 2·57	25·43	25·13	+ 0·30	1·51	Mandalay.
5	6	3	0	12	3	0	0	1	S 76° E		2·4			33		80	− 7	·872	−·049	7·3	0	6	− 2·4	4·30	6·54	− 2·24	14·48	24·34	− 9·86	1·92	Monywa.
22	0	0	1	0	2	4	0	1	S 32° W		1·9			17		90	− 2	·704	−·028	7·8	−0·2	12	− 1·3	6·34	7·40	− 1·06	35·20	49·73	−14·53	1·28	Lashio.
27	0	3	0	0	0	0	0	0	N 45° E	N 72° W	0·9	1·5	−0·6	10	− 4	93	+ 2	·870	−·015	8·4	+1·7	13	+ 0·4	12·43	9·51	+ 2·92	52·77	62·73	− 9·96	2·70	Bhamo.
25	1	2	0	0	1	1	0	0	N 45° E		1·6			3		92	+ 2	·842	−·054	6·7	−0·6	16	+ 3·7	10·67	9·46	+ 1·21	76·30	65·75	+10·55	1·61	Myitkyina.
																															II.—Assam.
23	0	5	0	1	0	1	0	0	N 58° E		0·2			10		91	− 1	·876	−·006	6·2	−1·2	11	− 3·9	10·17	12·78	− 2·61	73·01	82·45	− 9·44	1·85	Dibrugarh.
12	3	10	1	1	2	1	0	0	N 51° E	S 79° E	1·1	1·8	−0·7	33	+22	94	0	·908	−·020	8·3	0	9	− 5·7	4·96	11·83	− 6·87	59·16	71·37	−12·21	1·71	Sibsagar.
12	0	6	8	1	2	0	0	0	N 84° E		1·2			43		90	− 1	·879	−·034	6·5	−0·4	12	+ 0·7	11·11	6·89	+ 4·22	47·89	56·28	− 8·39	1·94	Tezpur.
21	0	3	6	0	0	0	0	0	N 75° E		1·1			27		86	− 2	·902	−·022	5·3	−1·7	11	+ 1·1	7·93	6·20	+ 5·73	42·80	51·86	− 9·06	1·87	Gauhati.
2	1	9	13	1	1	1	1	1	N 72° E	N 82° E	5·1	3·1	+2·0	62	+40	91	0	·890	−·031	6·7	−0·2	16	+ 3·3	33·42	14·34	+19·08	121·17	83·17	+38·00	7·61	Dhubri.
26	0	0	2	2	0	0	0	0	S 67° E	N 77° E	1·0	1·6	−0·6	10	+ 7	87	− 3	·915	−·014	5·3	−2·4	16	+ 0·8	1[illegible]·53	13·99	+ 0·54	75·27	92·17	−16·90	2·92	Silchar.
																88	+ 1	·837	−·044	4·4		16	+ 0·5	14·53	10·55	+ 3·98	77·97	76·52	+ 1·45	3·27	Srimangal.
																															III.—Bengal.
13	0	1	3	11	2	0	0	0	S 59° E		2·5			43		90		·910		7·2		16	+ 2·0	19·89	12·00	+ 7·89	122·18	114·96	+ 7·22	4·46	Cox's Bazar.
12	0	0	5	8	3	0	1	0	S 48° E	S 60° E	1·8	3·2	−1·4	46	−17	92	+ 4	·926	+·002	7·5	+0·4	17	+ 4·4	15·04	11·49	+ 3·55	73·50	82·69	− 9·39	3·07	Chittagong.
6	0	5	1	10	6	0	1	1	S 48° E		3·9			47		92	+ 3	·955	+·003	6·1	+1·2	19	+ 3·3	35·10	15·48	+19·62	102·27	100·20	+ 2·07	5·86	Noakhali.
1	2	3	2	9	5	3	2	2	S 31° E	S 27° E	2·7	2·0	+0·7	30	+ 4	89	+ 1	·976	+·004	6·1	−0·3	20	+ 5·5	17·18	10·77	+ 6·41	68·02	65·46	+ 2·56	2·75	Barisal.
10	1	0	3	2	6	4	2	1	S 2° W	S 18° E	3·0	3·8	−0·8	31	−17	86	− 2	·946	−·024	7·1	−0·5	19	+ 7·4	19·02	9·11	+ 9·91	68·85	56·79	+12·06	3·88	Narayanganj.
28	0	0	1	0	0	0	1	0	Calm	S 63° E	1·1	2·0	−0·9			88	− 2	·924	−·023	7·2	+0·1	14	− 0·9	18·26	13·89	+ 4·37	60·76	78·20	−17·44	4·07	Mymensingh.
8	4	5	9	0	1	1	0	2	N 55° E	S 49° E	1·3	2·2	−0·4	40	−16	88	+ 1	·976	+·024	6·3	+0·6	15	+ 2·2	13·44	11·43	+ 2·01	54·90	60·18	− 5·28	3·67	Bogra.
6	2	7	11	3	1	0	0	0	N 75° E	S 76° E	2·6	2·6	0	59	+ 7	88	− 1	·904	−·042	5·8	−0·9	17	+ 4·7	28·09	12·00	+16·09	58·14	62·16	− 4·02	6·75	Dinajpur.
22	0	2	0	1	1	0	0	2	N 62° E	N 73° E	1·5			7	−53	91	+ 1	·888	−·041	3·9	−2·3	17	+ 1·6	39·53	19·46	+20·07	119·57	109·82	+ 9·75	7·35	Jalpaiguri.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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
	III.—Bengal—*concld.*																					
	Saugor Island	10	29·708	−·027	29·663	29·929	21st	29·525	9th	83·8	79·9	88·3	+0·1	79·8	+0·1	84·1	+0·1	8·5	91·7	25th & 26th	75·7	2nd & 28th
	Midnapore	149	29·574*	−·023	29·671*	29·782	21st	29·336	9th	82·7	78·5	89·6	−0·3	77·8	+0·5	83·7	+0·1	11·8	93·3	17th	70·8	10th
	Calcutta	21	29·688	−·044	29·657	29·911	21st	29·529	9th	82·1	79·5	89·2	+1·2	78·9	+0·9	84·0	+1·1	10·3	93·3	7th	75·6	16th
	Jessore	30	29·689	−·042	25·666	29·915	21st	29·530	5th	82·4	78·9	89·7	+0·5	78·0	−0·4	83·9	+0·1	11·7	93·6	7th	73·5	21st
	Burdwan	99	29·606	−·049	29·651	29·834	21st	29·448	9th	82·6	79·1	89·8	0	78·7	−0·1	84·3	−0·1	11·1	94·6	7th, 24th & 26th	76·0	2nd
	Berhampore	67	29·653	−·034	29·669	29·879	21st	29·521	5th	82·4	79·4	88·6	−0·4	78·6	0	83·6	−0·2	10·0	94·1	7th	76·4	10th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·660	−·035	29·655	29·864	22nd	29·419	9th	82·0	79·1	90·4	+1·6	77·9	0	84·1	+0·8	12·5	94·6	25th	75·8	3rd & 28th
	Hukitala (False Point)	29	29·698	−·023	29·669	29·906	21st	29·452	8th													
	Cuttack	80	29·651	−·014	29·672	29·849	21st	29·433	8th	81·5	78·3	90·8	+0·7	77·7	−0·4	84·2	+0·1	13·1	95·5	6th	73·1	15th
	Puri	24	29·723	−·004	29·688	29·921	21st	29·528	8th	83·8	79·6	89·7	+0·7	80·5	+0·8	83·1	+0·7	9·2	96·0	4th	74·0	15th
	Angul	455	29·271	−·009	29·671	29·479	21st	29·089	9th	80·9	77·3	89·9	+1·4	76·5	0	83·2	+0·7	13·4	94·4	30th	72·4	14th & 15th
	Sambalpur	486	29·258	−·009	29·692	29·441	22nd	29·100	8th & 9th	81·6	78·6	90·2	+1·3	76·2	−0·9	83·2	+0·2	14·0	94·2	26th	72·7	15th
7	Chaibassa	*733*	28·971	−·029	29·654	29·176	21st	28·816	9th	80·3	76·5	89·8	+0·3	76·1	+0·2	83·0	+0·3	13·7	94·1	26th	74·7	28th
	Ranchi	2,128	27·609	−·020	29·649	27·796	22nd	27·455	9th	76·9	73·0	84·3	+0·2	72·0	0	78·1	+0·1	12·3	87·3	23rd, 24th & 26th	70·1	22nd
	Purulia	*816*	28·904*	−·017*	29·668*	29·115	21st	28·758	9th	80·9	76·2	90·9	+1·6	76·3	+0·6	83·6	+1·1	14·6	94·3	18th & 25th	73·7	7th
	Daltonganj	*730*	29·003	−·004	29·685	29·195	21st	28·835	10th	80·2	78·6	90·3	0	75·0	−0·3	82·7	−0·1	15·3	94·4	20th, 26th & 30th	71·8	1st
8	Purnea	124	29·599	−·033	29·677	29·828	21st	29·480	4th	81·5	78·6	87·9	−1·0	76·6	−0·9	82·3	−0·9	11·3	94·8	7th	72·6	13th
	Monghyr	155	29·544		29·651	29·754	21st	29·405	12th	82·0	78·1	88·0		76·9		82·4		11·1	93·2	8th	73·4	12th
	Darbhanga	165	29·558	−·022	29·678	29·776	21st	29·422	11th	81·8	78·1	88·0	−0·7	77·0	−1·6	82·5	−1·1	11·0	93·8	7th	72·4	12th & 13th
	Pusa	188	29·523		29·666	29·739	21st	29·374	10th	81·4	78·5	88·9		76·2		82·6		12·7	94·4	28th	72·2	12th
	Patna	183	29·530	−·015	29·672	29·758	18th	29·329	10th	83·3	78·9	88·5	−1·3	77·8	−1·1	83·1	−1·2	10·7	97·2	29th	73·2	13th
	Buxar	239	29·465	−·025	29·660	29·617	21st	29·317	11th	80·3	77·6	89·6†	−0·5†	77·3	−0·4	83·8†	−0·5	12·3	94·3	27th	72·6	12th
	Gaya	372	29·348	−·013	29·673	29·548	21st	29·140	10th	82·1	77·5	88·9	−2·0	77·4	−0·4	83·1	−1·2	11·5	94·1	7th	73·2	12th & 13th
	Naya Dumka	489	29·220	−·032	29·659	29·430	21st	29·092	12th	81·9	78·1	88·7	−0·2	76·5	−0·1	82·6	−0·1	12·2	93·4	7th	74·2	16th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·466	−·010	29·681	29·663	21st	29·334	5th	81·3	77·9	89·7	−0·8	76·2	−1·4	82·9	−1·1	13·5	94·3	27th & 30th	72·3	12th
	Benares	267	29·419	−·012	29·669	29·643	21st	29·310	10th	83·5	77·9	92·1	+1·1	76·5	−0·7	84·3	+0·2	15·6	96·3	29th	72·7	13th & 20th
	Allahabad	309	29·425	+·003	29·689	29·610	21st	29·300	8th	82·8	76·2	95·1	+3·6	77·3	+0·3	86·2	+1·9	17·8	99·4	27th	72·0	28th
	Cawnpore	416	29·313	+·004	29·683	29·485	21st	29·107	5th	82·8	75·6	97·2	+6·1	77·6	+0·3	87·4	+3·2	19·6	102·4	30th	71·5	28th
	Lucknow	368	29·344	−·014	29·668	29·523	22nd	29·206	4th	83·1	76·6	97·0	+5·1	74·4	−2·0	85·7	+1·5	22·6	102·5	27th	70·0	30th
	Bahraich	407	29·300	−·019	29·666	29·514	22nd	29·162	5th	81·5	77·1	92·6	+1·2	76·7	+0·2	84·7	+0·7	15·9	96·2	29th	71·1	14th
10	Jhansi	824	28·917	−·011	29·692	29·079	21st	28·759	8th	82·4	73·4	93·3	+4·8	75·8	−0·3	86·0	+2·3	20·5	103·1	25th	72·0	28th
	Agra	556	29·165	−·013	29·673	29·310	21st	29·053	5th	87·6	75·4	100·2	+7·0	76·3	+1·3	89·3	+4·1	21·9	104·6	30th	74·8	27th
	Mainpuri	516	29·189	−·020	29·663	29·260	21st	29·038	4th & 5th	81·9	74·4	97·3	+4·5	76·9	−0·1	86·6	+2·2	21·4	102·1	30th	70·6	27th & 28th
	Bareilly	568	29·139	−·014	29·665	29·326	21st	29·007	4th	82·9	77·3	95·4	+4·7	76·6	+0·9	86·0	+2·8	18·8	98·8	30th	72·8	26th
	Moorkee	869	28·816	−·011	29·676	28·985	21st	28·681	5th	80·9	74·3	92·9	+2·0	72·8	−0·5	82·8	+0·7	20·1	96·8	9th	66·9	27th

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

* Mean of 29 days.
† " 24 "

B—*continued.*

stations in India, etc., in September, 1920—*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 1920.	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.*
1	5	2	2	0	4	8	2	6	N 83° W	S 2° W	7·5	5·2	+2·3	27	−2	84	−4	·969	−·016	6·7	−1·0	9	−4·4	5·67	11·17	−5·50	35·22	56·20	−20·98	1·64	Saugor Island.
6	4	6	2	2	6	2	0	2	N 79° E		2·3			17		82	−4	·914	−·015	6·2	+2·1P	8	−4·4	7·40	8·72	−1·32	50·78	48·86	+1·92	2·55	Midnapore.
4	2	0	3	2	3	7	1	8	S 77° W	S 13° E	2·9	3·0	−0·1	23	−10	88	+1	·965	+·002	6·3	−0·6	11	−2·2	9·36	9·93	−0·57	50·23	52·36	−2·13	2·92	Calcutta.
19	0	0	2	7	2	0	0	0	S 45° E	S 32° E	1·6	2·3	−0·7	33	−4	85	−4	·942	−·050	6·9	+0·3	10	−1·7	4·59	8·50	−3·91	39·71	52·89	−13·18	1·26	Jessore.
20	2	1	1	0	3	2	0	1	S 22° W	S 18° E	1·2	2·2	−1·0	3	−19	85	−1	·942	−·002	5·9	−1·0	10	−1·3	7·52	8·55	−1·03	36·89	48·68	−11·79	2·84	Burdwan.
10	3	0	4	3	7	3	0	0	S 26° E	S 19° E	2·0	2·7	−0·7	30	−8	87	−2	·963	−·012	5·9	−1·3	15	+3·3	10·62	10·02	+0·60	47·83	47·97	−0·14	4·95	Berhampore.
																															IV.—Bihar and Orissa.
11	4	3	0	0	3	9	0	0	S 53° E	S 59° W	2·1	2·6	−0·5	17	−5	88	+1	·957	+·008	6·5	+1·4	12	−1·3	9·49	12·18	−2·69	44·29	49·13	−4·84	1·90	Balasore.
3	2	2	0	0	2	9	7	4	S 84° W		7·2			46	+9					8·0	+0·7	11	−1·3	9·44	10·23	−0·79	53·41	47·94	+5·47	1·67	Hukitala (False Point).
14	0	0	1	0	0	6	8	1	S 73° W	S 81° W	1·4	1·8	−0·4	40	+3	86	+3	·919	+·014	5·8	−0·3	9	−3·5	6·66	10·11	−3·45	46·37	49·33	−2·96	1·65	Cuttack.
4	6	2	1	0	3	5	4	5	N 66° W		7·0			33		82	−3	·951	−·007	5·1	−0·5	13	+1·2	11·15	9·23	+1·92	43·36	41·37	+1·99	2·64	Puri.
2	1	0	0	0	2	1	5	19	N 18° W		4·0			73		85	−1	·895	−·004	5·8	+1·3	10	−0·7	7·22	6·46	+0·76	45·98	37·47	+8·21	1·98	Angul.
0	3	4	1	1	2	14	2	3	S 64° W	S	2·0	2·8	−0·8	33	+11	87	+5P	·935	+·052P	5·7	−0·2	8	−3·6	5·02	8·73	−3·71	70·70	59·11	+11·59	1·74	Sambalpur.
17	0	2	0	0	1	9	1	0	S 45° W	S 53° W	1·7	1·0	+0·7	27	+4	84	−2	·860	−·007	5·3	−0·3	7	−4·7	3·25	8·58	−5·33	60·39	43·67	+16·72	1·10	Chaibasa.
3	2	2	1	1	2	3	9	7	N 75° W	S 79° W	4·5	5·0	−0·5	43	+21	82	−2	·762	+·009	5·4	−0·7	7	−4·9	4·22	8·95	−4·73	58·77	48·48	+10·29	1·46	Ranchi.
15	1	1	1	3	0	1	3	5	N 56° W		0·8*			10		80	−8	·841	−·048	5·9	+0·6	8	−3·2	5·37	10·12	−4·75	44·45	44·44	+0·01	1·02	Purulia.
22	0	1	0	0	1	3	3	0	N 63° W		2·8			13		79	−5	·811	−·040	4·3	+0·3	4	−5·2	3·93	6·97	−3·04	69·45	36·53	+32·92	1·79	Daltonganj.
1	4	12	9	1	1	2	0	0	N 61° E	N 88° E	2·1	2·2	+0·2	62	+24	88	−2	·943	−·015	5·5	−0·2	12	+1·1	17·95	12·25	+5·70	40·78	55·69	−14·91	9·12	Purnea.
14	0	6	4	1	0	0	5	0	N 53° E		2·4			17		84		·911		5·2		13	+2·6	17·11	8·95	+8·16	40·02	45·49	−5·47	4·40	Monghyr.
27	0	0	3	0	0	0	0	0	E	S 76° E	1·6	2·8	−1·2	10	−40	85	−2	·918	−·027	6·6	+1·5P	16	+7·3	21·54	8·58	+12·96	40·66	45·96	−5·30	7·57	Darbhanga.
10	2	6	5	3	0	2	2	0	N 69° E		2·1			27		87		·935		4·1		14	+5·5	16·93	6·14	+10·79	31·32	44·58	−13·26	7·31	Pusa.
19	0	0	10	0	0	1	6	1	E	S 74° E	3·4	2·8	+0·6	9	−21	82	−1	·932	−·009	5·2	−0·8	11	+1·9	11·22	7·53	+3·69	30·47	42·84	−12·37	4·04	Patna.
13	1	2	2	3	0	3	4	2	S 79° W		2·5			6		88	+4	·906	−·004	5·0	−0·2	8	−0·9	5·25	7·05	−1·80	32·23	35·73	−3·50	1·40	Buxar.
5	1	3	3	1	0	11	3	3	S 66° W	S 37° W	2·5	2·8	−0·3	23	−10	81	−1	·884	−·010	4·5	−0·4	9	−0·3	8·67	7·67	+1·00	52·71	41·63	+11·08	2·66	Gaya.
28	0	0	1	1	0	0	0	0	S 66° E		1·5			7		84	−1	·907	+·002	4·7	−0·8	17	+4·7	16·81	9·12	+7·69	57·52	49·21	+8·31	4·56	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
18	1	1	6	1	0	0	3	0	N 77° E	N 63° E	1·2	1·5	−0·3	13	−13	85	+1	·910	−·003	3·0	−1·6	9	+0·3	8·54	7·82	+0·72	44·15	44·28	−0·13	3·31	Gorakhpur.
8	0	1	0	5	0	4	8	4	S 74° W	S 31° W	1·8	2·8	−1·0	30	+19	77	−7	·876	−·003	3·6	−1·5	6	−2·4	4·25	6·79	−2·54	37·50	35·20	+2·30	2·08	Benares.
11	0	2	2	1	0	4	9	1	S 81° W	N 63° W	2·6	4·3	−1·7	27	+12	73	−8	·816	−·071	3·1	−2·4	4	−3·7	2·19	5·66	−3·47	33·35	33·94	−0·59	0·80	Allahabad.
3	2	1	3	2	2	8	5	4	S 67° W	S 45° W	2·3	2·6	−0·3	27	+19	71	−9	·789	−·077	1·4	−2·2	0	−7·1	0	6·88	−6·88	21·11	32·28	−11·17	0	Cawnpore.
18	0	1	1	1	1	3	0	5	N 82° W	S 88° E	1·4	2·0	−0·6	11	+4	73	−8	·831	−·046	2·6	−1·8	4	−3·6	4·30	6·72	−2·42	29·61	34·76	−5·15	1·15	Lucknow.
13	3	1	2	1	0	1	2	0	N 73° E	S 58° E	1·4	2·3	−0·9	27	−14	82	0	·867	−·037	2·1	−1·2	6	−0·6	3·49	7·83	−4·34	45·68	40·23	+5·45	0·84	Bahraich.
7	0	1	0	0	2	12	7	1	S 60° W	N 1° E	3·9	2·4	+1·5	56	+21	64	−13	·701	−·113	2·3	−0·6	3	−4·3	2·21	6·08	−3·87	19·64	33·26	−13·62	0·86	Jhansi.
18	0	1	0	0	0	8	3	0	S 57° W	S 59° W	1·1	3·3	−2·2	30	+8	55	−19	·716	−·089	1·1	−2·4	4	−1·4	2·93	4·05	−1·12	20·78	23·87	−3·09	2·40	Agra.
9	1	2	2	3	2	2	5	5	N 78° W	S 86° W	1·3	1·1	+0·2	17	−2	69	−10	·751	−·085	2·6	−1·6	4	−2·0	0·74	4·42	−3·68	21·41	23·32	−1·91	0·25	Mainpuri.
20	0	0	2	2	0	0	4	2	W	S 56° E	0·6	1·7	−1·1	7	−19	77	−5	·863	+·014	2·5	−1·0	1	−5·8	0·17	7·44	−7·27	26·47	39·56	−13·09	0·11	Bareilly.
26	0	0	0	2	0	0	0	2	Calm	S 58° E	1·5	1·4	+0·1	*		72	−10	·757	−·022	1·1	−2·2	2	−3·6	1·21	6·38	−5·17	38·09	36·35	+1·74	0·68	Roorkee.

* Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212 stations

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
	VI.—Punjab.																					
11	Delhi	718	29·002	−·006	29·679	29·150	21st	28·888	5th	82·9	72·1	98·4	+5·7	78·9	+1·8	88·7	+3·7	19·5	101·0	28th & 30th.	74·2	28th
	Hissar	725	28·994	0	29·676	29·140	21st	28·881	11th	84·7	71·9	102·6	+4·5	77·5	+1·4	89·9	+2·9	25·3	106·1	12th	70·1	25th
	Patiala	*818*	28·865	−·043?	29·642	29·032	21st	28·738	4th	83·3	74·5	98·0	+4·8	76·3	+1·8	87·1	+3·3	21·7	101·6	30th	70·0	18th
	Ambala	892	28·810	−·019	29·663	28·983	21st	28·676	4th	82·4	73·0	99·1	+6·2	75·2	+1·4	87·1	+3·8	23·9	104·0	9th	68·8	18th
	Ludhiana	812	28·883	−·023	29·658	29·066	21st	28·758	4th	82·0	72·5	99·2	+4·9	76·8	+1·6	88·0	+3·3	22·4	103·5	5th & 7th.	68·8	18th
	Lahore	702	28·974	−·031	29·641	29·162	21st	28·846	11th	83·1	73·8	100·4	+2·1	77·1	+3·7	88·7	+2·9	23·3	105·4	10th	70·5	30th
	Sialkot	830	28·847	−·036	29·646	29·019	21st	28·710	1st & 5th.	80·8	73·0	95·6	+0·4?	74·0	−0·1	84·8	+0·1?	21·6	101·7	7th	66·5	26th
	Rawalpindi	1,674	28·035	−·032	29·652	28·199	21st	27·887	1st	80·6	70·2	96·2	+2·7	71·2	+2·1	83·7	+2·4	25·0	102·2	9th	65·5	26th
12	Khushab	612	29·077	−·018	29·652	29·252	21st	28·935	5th	87·1	73·0	102·0	+3·1	75·9	−0·3	89·0	+1·4	26·1	107·2	8th & 9th.	69·2	18th, 27th & 28th.
	Lyallpur	605	29·059		29·629	29·219	21st	28·925	11th	83·0	72·2	101·4	*	75·8	*	88·6	*	25·6	106·9	10th	67·7	18th
	Montgomery	558	29·108	−·037	29·629	29·266	21st	28·977	11th	84·6	72·6	100·6	+0·1?	71·9	−3·6?	86·2	−1·7?	28·7	104·0	29th	63·0	18th
	Multan	426	29·225	−·040	29·611	29·381	21st	29·092	11th	84·8	75·5	102·9	+2·4	79·3	+1·8	91·1	+2·1	23·6	108·1	30th	74·9	28th
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·571	−·053	29·655	28·775	24th	28·397	11th	78·2	69·5	100·8	+5·2	72·4	+1·9	86·6	+3·5	28·4	109·6	2nd	64·9	30th
	D. I. Khan	590	29·087	−·023	29·642	29·255	24th	28·953	11th	84·4	75·6	102·5	+2·7	78·3	+3·3	90·4	+3·0	24·2	107·4	9th	71·7	28th
	VIII.—Sind.																					
16	Jacobabad	186	29·497	−·018	29·641	29·687	21st	29·378	5th	84·9	74·9	103·0	−0·7	77·4	+1·2	90·2	+0·3	25·6	108·7	9th	72·0	28th
	Hyderabad	96	29·625	−·011	29·673	29·809	21st	29·502	5th	82·3	75·1	97·6	+0·2	77·1	+0·9	87·3	+0·5	20·5	103·5	24th	73·0	28th
	Karachi	13	29·777	+·012	29·741	29·941	21st	29·685	5th	81·0	77·3	85·9	+0·3	78·4	+2·6	82·2	+1·5	7·5	87·9	7th	77·1	26th & 28th.
	IX.—Rajputana.																					
17	Bikaner	*771*	28·970	+·008	29·696	29·112	21st	28·882	5th	85·3	76·7	102·3	+4·2	75·0	+0·2	90·6	+2·2	28·3	106·6	24th	75·9	20th
	Jodhpur	780	29·001	+·010	29·735	29·131	20th & 21st.	28·912	8th	83·0	71·0	99·0	+4·1	76·5	+1·0	87·8	+2·5	22·5	105·3	25th	72·3	30th
18	Jaipur	1,431	28·348	+·005	29·716	28·491	20th	28·249	8th	83·5	71·3	98·9	+4·9	72·8	+0·3	86·3	+2·6	25·1	104·5	25th	70·1	27th
	Ajmer	1,611	28·169	−·004	29·719	28·317	21st	28·068	9th	78·7	69·5	93·7	+3·3	77·0	+2·9?	85·4	+3·1?	16·7	99·6	25th	73·0	22nd
	Kotah	832	28·928	+·001	29·707	29·070	21st	28·805	8th	85·5	73·4	96·7	+4·2	78·1	+1·0	87·4	+2·6	18·6	103·2	25th	76·9	2nd
	X.—Bombay.																					
19	Deesa	466	29·356	+·021	29·775	29·472	21st	29·270	6th & 8th.	81·9	74·4	96·9	+5·6	74·6	+0·5	86·8	+3·1	24·3	104·6	24th	71·8	15th
	Bhuj	334	29·477	+·011	29·762	29·612	21st	29·389	5th	81·7	78·3	94·6	+2·6	75·5	+0·9	85·0	+1·7	19·1	101·2	25th	73·4	30th
	Jamnagar	61																				
	Dwarka	37	29·803	+·013	29·787	29·939	21st	29·765	5th	81·7	76·9	86·5	+1·3	79·6†	+2·3†	83·1†	+1·8	6·9	87·7	6th	78·2	1st
	Rajkot	429	29·397	+·005	29·775	29·520	21st	29·204	6th	80·8	75·3	95·1	+3·5	75·2	+3·0	85·2	+3·3	19·9	99·1	25th	73·2	5th & 17th.
	Veraval	*18*	29·835	+·011	29·796	29·958	21st	29·749	6th	80·5	76·9	84·2	+0·6	78·3	+2·0	81·3	+1·3	5·9	89·2	24th	76·1	22nd
	Bhavnagar Para	55	29·792	+·016	29·793	29·901	21st	29·699	6th	82·7	75·6	95·6	+2·8	75·5	+0·4	85·6	+1·5	20·1	101·0	23rd	73·4	4th & 5th.
	Surat	39	29·812	+·007	29·794	29·930	21st	29·720	6th	82·2	77·1	90·9	+2·3	76·6	+0·9	83·8	+1·6	14·3	99·3	23rd	74·3	24th
	Ahmedabad	163	29·677	+·015	29·789	29·786	21st	29·568	6th	82·9	75·6	96·6	+6·3	76·5	+0·4	87·5	+3·3	22·1	103·2	27th	72·9	7th
20	Bombay	37	29·836	+·001	29·813	29·935	20th	29·742	6th	80·0	76·6	86·5	+1·8	76·0	+1·2	82·3	+1·5	8·5	89·6	30th	75·8	12th
	Ratnagiri	207	29·671	+·001	29·819	29·750	20th	29·608	6th	79·2	75·5	84·5	+0·4	75·7	+1·2	80·1	+0·8	8·8	87·3	30th	72·5	7th
	Marmagao	*60*	29·831	−·014	29·825	29·905	19th	29·768	30th	78·8	77·2	84·0	+0·8	76·3	+0·1	79·6	+0·5	8·7	86·7	28th	73·4	7th
	Karwar	44	29·845	−·012	29·824	29·924	19th	29·784	30th	77·6	76·1	84·6	+2·0	75·7	+1·7	80·1	+1·9	8·9	88·0	30th	73·2	7th

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

*Mean of 20 days.
† " " 29 "

B—*continued.*

in India, etc., in September, 1920—*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 1920.	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.
8	1	1	0	4	0	0	13	3	N 85° W	S 85° W	2·3	2·6	−0·3	40	+11	57	−14	·643	−·117	0·8	−2·3	1	−3·5	0·11	4·98	−4·87	21·45	23·69	−2·24	0·11	Delhi.
0	0	0	1	2	3	11	12	1	S 58° W	S 59° W	4·7	3·6	+1·1	66	+44	52	−14	·614	−·118	1·1	−0·3	0	−2·9	0	1·97	−1·97	5·63	11·67	−6·04	0	Hissar.
6	0	0	0	14	1	3	6	0	S 9° E		3·2			43		65	−11	·743	−·066	1·6	−0·7	2	−2·2	0·99	4·54	−3·55	17·94	20·23	−2·29	0·54	Patiala.
8	0	0	8	6	0	0	6	2	S 59° E	S 39° W	3·5	1·1	+2·4	20	−9	62	−19	·684	−·118	2·1	−0·9	2	−2·5	1·38	4·65	−3·27	14·23	24·53	−10·30	0·81	Ambala.
26	0	0	0	1	2	0	1	0	S 7° W	S 20° E	1·4	1·0	+0·4	9	−3	62	−14	·673	−·085	0·9	−1·8	1	−2·8	0·43	4·11	−3·68	14·48	22·33	−7·85	0·36	Ludhiana.
11	2	1	0	6	4	4	1	1	S 3° E	S 34° E	1·4	1·5	−0·1	25	+10	63	−7	·718	−·041	0·4	−1·2	1	−1·5	0·26	2·35	−2·09	7·97	15·41	−7·44	0·25	Lahore.
2	5	4	14	2	0	2	0	1	N 70° E	N 73° E	2·0	1·3	+0·7	56	+15	68	−4	·710	−·043	2·3	+0·2	3	−0·7	1·41	3·38	−1·97	15·11	23·31	−8·20	0·84	Sialkot.
11	1	5	2	4	3	2	1	1	S 69° E	N 56° E	1·7	1·1	+0·6	17	+2	59	−10	·611	−·048	1·3	−0·8	4	−0·2	2·59	3·38	−0·79	13·68	23·07	−9·39	0·84	Rawalpindi.
4	1	13	7	1	3	1	0	0	N 70° E	N 65° E	4·6	3·9	+0·7	56	0	49	−13	·632	−·069	0·1	−1·2	1	−0·9	0·13	1·25	−1·12	5·60	10·18	−4·58	0·13	Khushab.
5	0	3	5	6	2	9	0	0	S 26° E		2·3			37		57		·642		0·7		1	−0·7	1·53	1·75	−0·22	6·79	10·03	−3·24	1·53	Lyallpur.
0	6	2	2	0	6	9	1	4	S 73° W	S 4° W	3·9	5·0	−1·1	23	−21	54	−3	·635	−·052	0·3	−0·8	1	−0·7	0·37	1·29	−0·92	2·35	8·06	−5·71	0·30	Montgomery.
6	0	0	0	0	6	17	0	1	S 36° W	S 5° W	1·4	1·9	−0·5	69	+28	63	−2	·762	+·010	0·1	−0·6	0	−0·6	0	0·32	−0·32	4·13	5·11	−0·98	0	Multan.
																															VII.—North-West Frontier Province.
28	2	0	0	0	0	0	0	0	N	N 34° W	0·4	2·0	−1·6	7	−23	64	0	·610	−·038	0·7	−0·7	0	−1·6	0·12	0·77	−0·65	0·97	5·31	−4·34	0·08	Peshawar.
16	0	11	0	3	0	0	0	0	N 60° E	N 67° E	1·6	1·3	+0·3	40	+10	65	−4	·764	+·017	0·6	−0·2	0	−0·8	0	0·55	−0·55	7·87	5·76	+2·11	0	D. I. Khan.
																															VIII.—Sind.
2	0	0	0	26	0	2	0	0	S 41° E	S 48° E	2·8	2·1	+0·7	86	+38	61	−10	·730	−·076	0	−0·6	0	−0·2	0	0·08	−0·08	1·83	2·30	−0·47	0	Jacobabad.
0	0	0	0	0	1	26	3	0	S 48° W	S 39° W	10·0	9·9	+0·1	92	+18	70	+2	·768	+·042	0·8	−0·7	0	−0·6	0	0·52	−0·52	1·27	6·16	−4·89	0	Hyderabad.
0	0	0	0	0	0	6	22	2	S 84° W	S 77° W	12·3	10·7	+1·6	92	+11	84	+2	·881	+·070	5·6	+0·8	0	−0·6	0·01	0·40	−0·38	1·41	5·97	−4·56	0·02	Karachi.
																															IX.—Rajputana.
0	0	0	0	0	4	13	11	2	S 61° W	S 46° W	7·3	5·0	+2·3	79	+19	66	+1	·803	+·061	0·3	−1·8	0	−1·9	0	1·18	−1·18	12·34	9·58	+2·76	0	Bikaner.
3	0	0	0	1	1	20	5	0	S 49° W		3·2			76		54	−15	·598	−·124	3·0	−1·3	0	−2·5	0·03	2·26	−2·23	10·48	11·61	−1·13	0·03	Jodhpur.
3	1	0	1	0	0	8	12	5	S 87° W	N 68° W	3·7	3·1	+0·6	66	+25	54	−16	·610	−·109	1·7	−2·0	1	−3·6	0·12	3·27	−3·15	29·58	21·67	+7·91	0·12	Jaipur.
4	0	0	0	0	0	15	11	0	S 64° W	S 89° W	4·5	4·1	+0·4	75	+9	62	−14	·609	−·133	0·6	−3·0	1	−2·7	0·25	2·52	−2·27	21·04	18·43	+2·61	0·25	Ajmer.
5	4	0	0	0	0	9	6	6	N 84° W		1·3			56		55	−13	·661	−·079	2·2	−0·9	1	−4·3	0·14	4·36	−4·22	21·69	24·69	−3·00	0·14	Kotah.
																															X.—Bombay.
1	3	0	0	0	0	11	7	8	N 87° W	S 79° W	5·9	6·1	−0·2	66	+7	69	−7	·755	−·026	3·3	−1·6	1	−2·4	0·22	3·42	−3·20	19·75	22·72	−2·97	0·20	Deesa.
0	0	0	0	0	0	4	22	4	W	N 87° W	6·8	8·9	−2·1	92	+14	86	+8	·914	+·108	4·8	+0·1	0	−2·0	0	1·85	−1·85	10·48	13·56	−3·08	0	Bhuj.
0	0	0	0	0	2	20	7	1	S 56° W		5·8			92						3·7	+0·7	0	−2·7	0·22	2·32	−2·10	35·32	17·94	+17·38	0·09	Jamnagar.
0	0	0	0	0	1	7	17	5	S 85° W		10·4			82		80	−3	859	−·012	3·7	−0·7	1	−0·7	0·36	1·14	−0·78	10·69	13·60	−3·51	0·20	Dwarka.
0	0	0	0	0	2	18	8	2	S 59° W	N 87° W	7·4	6·6	+0·8	82	+8	77	−4	·801	+·002	3·1	−1·8	4	−0·9	2·10	3·85	−1·75	22·72	25·19	−2·47	1·48	Rajkot.
2	4	0	0	0	1	7	9	7	N 81° W	N 86° W	8·7	5·8	+2·9	62	+7	84	−2	·870	+·009	4·4	−0·9	6	+2·3	1·82	2·27	−0·45	20·17	17·48	+2·69	0·59	Veraval.
0	2	0	0	0	0	6	15	7	N 84° W	S 63° W	4·4	7·9	−3·5	81	+8	71	−7	·788	−·033	4·7	−0·5	3	−2·7	0·86	3·72	−2·86	23·66	21·53	+2·13	0·65	Bhavnagar Para.
11	2	1	1	1	4	4	3	3	S 64° W	S 78° W	1·5	5·0	−3·5	20	−32	79	−3	865	+·008	5·7	0	3	−4·1	1·40	6·00	−4·60	27·19	39·14	−11·95	0·96	Surat.
1	0	0	0	0	0	8	2	19	N 78° W	N 68° W	3·0	2·8	+0·2	72	+15	70	−8	·788	−·019	3·0	−2·7	0	−4·4	0·03	3·73	−3·70	24·38	28·37	−3·99	0·03	Ahmadabad.
1	2	2	4	2	2	2	9	6	N 70° W	S 56° W	5·9	7·9	−2·0	27	+12	85	−2	·875	−·007	6·6	−0·7	10	−2·5	4·05	10·57	−6·52	39·39	68·69	−29·30	1·06	Bombay.
3	2	4	2	2	2	2	4	9	N 41° W	S 73° W	6·1	5·0	+1·1	27	+20	81	−6	·824	−·032	5·6	−0·7	10	−5·0	5·76	11·94	−6·18	55·90	95·78	−39·88	1·55	Ratnagiri.
9	2	0	1	1	0	4	5	8	N 71° W	N 54° W	5·0	5·4	−0·4	43	−10	93	+2	·920	+·030	7·6	+1·2	12	−2·9	7·89	8·54	−0·65	74·91	88·07	−13·16	3·33	Marmagao.
28	0	0	0	0	0	1	0	1	W	N 38° W	1·4	2·1	−0·7	5	−29	93	+4	·882	+·054	6·5	+0·5	9	−6·4	5·28	11·55	−6·27	76·34	112·47	−36·13	1·31	Karwar.

Table

(2) Abstract of observations taken at 8 hrs. at 212 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	28·408	−·010	29·778	28·515	21st	28·303	8th	79·1	71·9	92·0	+3·8	70·9	+0·7	81·4	+2·3	21·1	95·8	29th	67·8	3rd
	Ahmadnagar	2,154	27·708	−·001	29·776	27·790	20th	27·623	8th	75·3	70·1	89·4	+3·8	68·5	+0·6	79·0	+2·2	20·9	94·3	4th	65·1	12th
	Poona	1,846	28·018	+·002	29·801	28·108	20th	27·957	27th	74·6	70·8	86·8	+2·4	68·6	0	77·6	+1·2	18·2	92·4	19th	65·1	15th & 9th.
	Sholapur	1,590	28·255	−·005	29·780	28·331	20th	28·186	8th	76·4	69·9	91·1	+2·8	71·2	+0·7	81·2	+1·7	19·8	96·8	30th	67·2	6th
	Bijapur	*1,948*	27·915	0	29·791	27·986	21st	27·834	8th	74·8	70·4	87·9	+1·2	70·1	+0·4	79·0	+0·8	17·8	92·8	30th	66·2	25th
	Belgaum	2,562	27·351	+·009	29·827	27·427	19th	27·293	8th	70·5	68·4	81·1	+2·1	66·4	+1·1	73·7	+1·6	14·7	86·3	30th	63·4	8th
	XI.—Central India.																					
20	Neemuch	1,626	28·174	+·003	29·730	28·307	21st	28·062	8th	80·2	73·1	92·0	+4·1	71·8	+0·9	81·9	+2·5	20·2	99·7	29th	69·6	18th
	Indore	1,823	28·001	+·012	29·757	28·118	21st	27·860	8th	77·2	72·6	88·0	+2·9	70·6	+0·6	79·3	+1·7	17·4	95·1	29th	68·3	18th
21	Nowgong	754	28·985	−·004	29·696	29·150	20th	28·862	8th	78·9	73·9	91·3	+2·0	73·8	−1·2	82·8	+0·4	18·1	97·5	30th	66·0	28th
	Sutna	1,041	28·692	+·002	29·681	28·852	21st	28·559	8th	81·1	74·1	90·5	+2·6	74·6	−0·1	82·5	+1·2	15·9	94·3	26th	70·3	22th
	XII.—Central Provinces.																					
22	Buldana	2,134								76·1	70·3	88·0	+4·9	70·9	+1·6	79·5	+2·2	17·1	92·1	29th	67·9	5th
	Akola	925	28·894	+·017	29·764	28·009	21st	28·767	8th	80·7	72·9	91·9	+5·9	74·3	+1·6	84·6	+3·7	20·6	103·1	30th	71·8	9th
	Amraoti	1,215	28·591	+·015	29·749	28·701	20th	28·444	8th	79·5	72·5	92·5	+4·3	73·1	+1·0	82·8	+2·7	19·4	99·7	30th	71·3	13th
23	Khandwa	1,044	28·767	+·012	29·761	28·883	21st	28·625	8th	79·2	73·8	90·8	+2·8	73·2	+0·1	82·0	+1·5	17·6	99·5	30th	69·9	11th
	Hoshangabad	1,006	28·796	+·023	29·755	28·929	21st	28·635	8th	77·7	74·6	89·0	+1·6	72·0	−1·1	80·5	+0·3	17·0	94·5	30th	68·0	29th
	Saugor	1,807	27·945	−·029P	29·681	28·085	21st	27·799	8th	77·4	71·2	90·2	+4·0	71·3	−0·2	80·8	+1·9	18·9	97·2	30th	69·0	14th
	Jubbulpore	1,327	28·422	−·007	29·690	28·573	21st	28·284	8th	78·9	73·4	89·6	+2·5	73·4	+0·7	81·5	+1·6	16·2	94·9	26th	68·3	28th
	Seoni	2,033	27·764	+·016	29·715	27·900	21st	27·505	8th	77·7	71·4	87·3	+2·0	70·4	−0·1	78·8	+0·9	16·9	94·0	29th	68·1	13th, 16th & 27th.
	Nagpur	1,017	28·779	+·026	29·739	28·901	21st	28·603	8th	81·1	73·7	92·1	+3·1	74·1	+0·3	83·1	+1·7	18·0	97·8	29th	72·3	30th
24	Pendra	2,040	27·741	+·021P	29·693	27·905	21st	27·581	8th	78·2	72·2	86·0	+1·4	71·9	+0·7	79·0	+1·1	14·1	89·1	26th	65·4	29th
	Raipur	970	28·790	−·003	29·692	28·941	22nd	28·602	8th	80·6	75·4	90·3	+2·3	75·3	+0·6	82·8	+1·5	15·0	94·7	26th	72·4	30th
	Chanda	*634*	29·152	−·007	29·730	29·274	21st	28·999	8th	80·8	75·2	91·4	+2·5	74·4	+0·1	82·9	+1·3	17·0	97·3	30th	70·0	30th
	Jagdalpur	1,813	27·882		29·716	28·106	22nd & 23rd.	27·823	8th	77·3	73·5	87·0		71·4		79·2		15·6	91·5	30th	68·6	28th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	27·953	+·009	29·780	28·051	20th	27·839	8th	77·4	70·0	91·0	+4·9	70·7	+2·0	80·9	+3·5	20·3	95·2	21st	67·5	10th
	Nizamabad	1,248	28·575	P	29·762	28·677	21st	28·460	9th	79·0	72·9	90·9	+4·1	72·0	−0·5	81·5	+1·8	18·9	98·6	30th	68·1	9th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·340	+·001	29·778	28·415	21st	28·260	8th	76·6	70·9	91·7	+3·9	71·6	+0·4	81·6	+2·1	20·1	97·3	30th	68·8	6th
	Raichur	*1,311*	28·543	+·012	29·791	28·613	21st	28·454	8th	78·3	72·2	92·4	+4·2	72·9	+0·5	82·6	+2·3	19·5	98·1	30th	70·4	12th
	Hyderabad (Deccan)	1,738	28·124	+·015	29·766	28·218	21st	28·023	8th	78·0	72·2	89·2	+3·2	72·9	+0·8	81·1	+2·0	16·3	96·4	30th	70·0	9th
	Hanamkonda	877	28·931	+·013	29·742	29·013	21st	28·793	8th	83·2	74·2	93·2	+5·3	76·0	+1·4	84·6	+3·2	17·2	100·7	30th	72·0	13th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·493	0	29·808	27·564	19th	27·429	8th	72·4	65·2	85·0	+1·6	68·4	+1·1	76·7	+1·3	16·6	89·4	30th	65·8	20th & 22nd.
	Hassan	3,142	26·799	−·002	29·812	26·860	19th	26·751	7th	70·4	67·2	81·6	+1·1	65·0	+0·7	73·3	+0·9	16·6	84·4	28th	61·8	7th
	Bangalore	3,021	26·930	−·001	29·816	26·985	20th	26·887	8th	70·4	67·4	82·8	+0·9	66·3	+0·9	74·6	+0·9	16·5	87·4	4th	62·7	7th
	Mysore	2,518	27·400	−·015	29·820	27·473	19th	27·346	8th	72·2	67·9	84·5	+0·5	68·8	+0·5	75·6	+0·5	17·7	89·2	13th	69·3	7th

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

B—*continued.*

in India, etc., in September, 1920—*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 Sep. 1920.	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.*
7	0	0	0	0	0	12	9	2	S 70° W	N 87° W	4·6	6·6	−2·0	66	− 4	70	− 6	·689	−·017	4·1	−0·6	5	−2·6	4·48	5·76	−1·28	10·14	19·52	− 9·38	1·75	Malegaon.
3	4	1	0	0	0	0	7	15	N 48° W	N 70° W	5·2	9·1	−3·9	76	−13	76	− 4	·665	−·008	3·3	−2·1	15	+7·2	5·76	6·18	−0·42	9·00	18·57	− 9·57	1·58	Ahmadnagar.
5	1	1	0	0	0	0	15	8	N 70° W	N 87° W	6·7	8·1	−1·4	69	− 1	83	+ 2	·710	+·032	9·7	+2·8	11	+3·8	9·23	4·53	+4·70	21·70	21·76	− 0·06	1·82	Poona.
2	1	1	0	0	0	0	5	21	N 49° W	N 68° W	7·7	6·1	+1·6	79	+12	72	− 5	·652	−·023	7·0	0	7	−1·8	7·02	7·88	−0·86	12·48	23·10	−10·62	3·65	Sholapur.
0	3	1	0	0	0	2	14	10	N 67° W	N 87° W	3·2	5·3	−2·1	79	+ 4	80	− 1	·688	+·002	4·5	−1·8	10	+1·4	5·82	5·92	−0·10	12·48	15·22	− 2·74	1·86	Bijapur.
20	0	1	0	0	1	4	4	0	N 63° W	N 81° W	3·3	11·5	−8·2	22	−47	89	0	·666	+·006	8·7	+1·2	8	−1·2	5·59	4·70	+0·89	35·82	42·25	− 6·43	1·80	Belgaum.
																															XI.—Central India.
7	0	0	0	0	0	0	23	0	W	N 89° W	5·5	6·4	−0·9	77	+22	73	− 7	·738	−·003	2·1	−1·9	2	−4·4	0·82	4·87	−4·05	30·71	26·71	+ 4·00	0·70	Neemuch.
1	0	1	0	0	0	0	14	14	N 66° W	N 60° W	3·9	3·0	+0·9	82	+30	80	− 5	·739	−·002	4·2	−2·4	5	−3·4	4·27	6·70	−2·43	34·87	30·12	+ 4·75	1·60	Indore.
5	0	2	0	2	3	1	16	1	S 79° W	N 89° W	1·8	1·7	+0·1	49	+10	78	− 5	·771	−·059	2·9	−2·2	6	−1·2	5·05	6·16	−1·11	26·12	39·32	−13·20	1·23	Nowgong.
8	2	1	0	0	3	7	8	1	S 70° W	N 69° W	1·9	4·5	−2·6	46	+ 8	72	−10	·762	−·066	1·9	−3·5	6	−2·8	4·15	6·81	−2·66	33·02	39·11	− 6·09	2·92	Sutna.
																															XII.—Central Provinces.
0	0	0	0	1	0	2	14	13	N 71° W		6·4	5·9	+0·5	83		74		·667		5·7		3	−5·8	2·02	7·04	−5·02	20·10	30·25	−10·15	1·35	Buldana.
1	1	1	1	0	0	0	13	13	N 62° W	N 69° W	5·6	4·7	+0·9	72	− 2	68	−12	·704	−·054	4·7	−1·5	2	−5·9	2·16	5·80	−3·64	10·66	27·84	−17·18	1·06	Akola.
0	0	6	1	0	0	3	8	12	N 52° W	S 88° W	4·2	3·9	+0·3	56	− 3	71	−12	·708	−·057	5·5	−0·5	5	−3·2	2·22	6·22	−4·00	13·75	29·34	−15·59	0·91	Amraoti.
2	0	0	0	0	0	3	17	8	N 82° W	N 79° W	5·4	4·7	+0·7	82	+ 4	77	− 5	·763	+·010	5·6	+0·3	4	−3·5	1·51	6·17	−4·66	22·94	27·09	− 4·15	0·79	Khandwa.
8	0	0	0	0	0	20	1	1	S 50° W	S 51° W	1·6	1·9	−0·3	66	+18	86	0	·815	+·016	3·7	−2·4	4	−5·8	7·36	8·75	−1·39	32·63	44·98	−12·35	3·07	Hoshangabad.
6	0	0	0	0	0	2	15	7	N 81° W	S 80° W	4·2	3·2	+1·0	69	+25	74	− 8	·686	−·058	3·1	−1·8	3	−6·3	3·44	7·10	−3·66	35·86	41·34	− 5·48	1·96	Saugor.
3	0	0	0	2	2	10	10	3	S 65° W	S 66° W	1·7	2·2	−0·5	66	+33	76	− 9	·753	−·041	2·0	−3·5	5	−4·8	2·83	7·81	−4·98	29·74	50·22	−20·48	1·63	Jubbulpore.
7	7	1	0	0	0	2	7	6	N 48° W	N 53° W	2·9	2·8	+0·1	53	+23	73	−10	·693	−·050	4·2	−0·7	6	−5·1	4·77	8·83	−4·06	34·05	46·99	−12·94	2·18	Seoni.
5	2	0	0	0	0	0	13	10	N 66° W	N 72° W	3·8	3·9	−0·1	72	+39	69	−12	·730	−·056	2·9	−3·2	5	−5·8	5·13	8·34	−3·21	27·58	44·03	−16·45	2·40	Nagpur.
20	2	0	0	0	1	0	1	6	N 45° W		3·2			27		74	− 9	·711	−·030	3·8	−1·5	6	−4·0	2·34	6·18	−3·84	33·31	41·02	− 7·71	0·90	Pendra.
24	0	0	0	0	1	1	2	2	S 86° W	S 63° W	2·6	4·3	−1·7	14	−20	78	− 6	·812	−·017	4·5	−1·3	5	−5·5	4·30	7·64	−3·34	34·17	45·01	−10·54	1·59	Raipur.
2	0	1	1	1	1	7	10	7	S 87° W	N 79° W	3·3	2·9	+0·4	58	+32	76	− 6	·800	−·018	5·2	−0·7	6	−4·9	3·84	9·56	−5·72	28·34	47·45	−19·11	1·97	Chanda.
14	0	0	0	0	4	2	7	3	S 73° W		1·8			37		82		·772		0·5		7	−7·2	3·75	12·05	−8·30	32·33	53·03	−20·70	0·78	Jagdalpur.
																															XIII.—Hyderabad.
1	5	0	2	0	0	2	15	5	N 69° W		9·1			62		69	− 9	·642	−·044	5·7	−0·1	4	−4·2	2·70	6·35	−3·85	7·77	24·29	−16·52	1·17	Aurangabad.
0	9	3	0	1	1	1	8	7	N 38° W		2·5			59		75	− 6	·733	−·027	5·7	−0·6	8	−1·8	3·63	9·48	−5·85	23·98	36·38	−12·40	1·02	Nizamabad.
																															Bidar.
0	5	1	2	0	0	1	9	12	N 49° W	N 54° W	6·5	7·9	−1·4	82	+ 4	75	− 5	·686	−·025	5·0	−1·3	11	+0·6	4·70	7·50	−2·80	12·56	25·91	−13·35	0·90	Gulbarga.
1	3	1	0	0	1	1	13	10	N 66° W	S 89° W	7·3	7·1	+0·2	72	+ 3	70	− 8	·713	+·002	5·4	−0·1	9	−1·3	3·97	7·02	−3·05	13·31	22·25	− 8·94	1·29	Raichur.
9	0	0	0	0	0	0	12	9	N 71° W	N 83° W	3·0	4·1	−1·1	62	− 5	76	− 5	·722	−·002	6·2	−0·1	6	−3·0	2·54	6·90	−4·36	18·24	25·52	− 7·28	0·65	Hyderabad (Deccan).
12	1	0	0	1	0	0	4	12	N 53° W		4·5			49		64	−12?	·722	−·049	5·7	−0·2	6	−2·8	1·90	6·81	−4·91	12·67	29·88	−17·21	0·93	Hanamkonda.
																															XIV.—Mysore.
1	0	0	0	0	0	5	15	9	N 88° W	S 80° W	5·6	6·4	−0·8	82	− 4	81	− 1	·648	+·003	6·9	−0·9	8	+0·8	6·26	4·06	+2·20	13·74	16·51	− 2·77	2·82	Chitaldrug.
3	0	0	0	0	0	2	13	12	N 73° W	N 79° W	5·9	2·6	+3·3	80	+ 4	85	+ 2	·630	+·013	7·5	−0·4	10	+2·0	5·67	3·86	+1·81	13·40	22·20	− 8·80	1·75	Hassan.
1	0	0	0	0	0	4	22	3	S 89° W	S 82° W	5·5	5·1	+0·4	89	+ 8	85	− 1	·633	+·005	8·6	+0·6	11	+1·8	6·64	6·96	−0·32	19·11	23·48	− 4·37	1·83	Bangalore.
1	0	0	0	0	2	13	13	1	S 66° W	S 74° W	5·0	7·3	−2·3	82	+11	80	− 2	·629	−·012	6·6	−1·2	11	+2·7	3·83	4·66	−0·83	12·93	19·01	− 6·08	1·36	Mysore.

Table

(2) Abstract of observations taken at 8 hrs. at 212 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	29·848	−·012	29·852	29·917	19th	29·792	26th & 30th.	78·4	75·7	84·6	+0·7	74·4	+1·0	79·5	+0·9	10·2	87·8	30th	71·9	7th
	Calicut	27	29·894	−·007	29·850	29·979	19th	29·834	26th	77·6	76·1	82·4	−1·4	75·4	+1·2	78·9	−0·1	7·0	85·6	26th	73·9	11th
	Cochin	9	29·925	−·005	29·862	30·006	19th	29·871	26th	78·9	75·5	84·3	−0·6	74·6	+0·1	79·5	−0·3	9·7	86·7	27th	72·0	8th
	Trivandrum	198	29·729	−·003	29·859	29·800	19th	29·671	26th	77·2	74·4	82·8	0	74·1	−1·0	78·5	−0·5	8·7	84·8	25th	72·0	14th
31	Pamban	37	29·827	−·017	29·792	29·904	21st	29·749	7th	81·5	76·4	90·7	+1·1	78·3	0	84·5	+0·5	12·4	91·5	28th	77·5	21st
	Madura	447	29·431	+·004	29·810	29·522	19th	29·365	6th	81·1	74·3	93·3	−1·8	75·5	+0·3	84·4	−0·7	17·8	100·0	13th	70·8	21st
	Pudukkottai	318	29·555	+·015	29·803	29·610	21st	29·468	7th	80·9	73·7	94·1	−0·3	75·3	−0·3	84·7	−0·3	18·8	100·1	13th	71·1	24th
	Negapatam	31	29·830	−·006	29·790	29·920	21st	29·745	7th	80·7	75·9	91·9	−0·8	76·5	−0·2	81·2	−0·5	15·4	96·3	12th	73·2	5th
	Trichinopoly	255	29·612	−·006	29·800	29·694	21st	29·531	7th	81·4	75·3	94·5	−0·7	75·3	−0·5	84·9	−0·6	19·2	100·1	1st	70·3	21st
	Coimbatore	1,341	28·552	+·008	29·824	28·632	19th	28·486	6th	77·1	72·4	89·7	+0·6	71·6	+0·9	80·7	+0·7	18·1	92·9	30th	69·3	10th
	Salem*	913	28·967	+·005	29·816	29·045	19th	28·898	7th	77·3	73·0	89·8	−1·1	72·3	0	81·1	−0·5	17·5	95·4	1st	70·2	9th
	Cuddalore	37	29·811	−·007	29·776	29·909	21st	29·733	7th	81·4	76·2	92·0	−0·2	76·4	+0·2	84·2	0	15·6	96·7	12th	73·4	5th
	Vellore	707	29·138	−·007	29·782	29·212	20th	29·056	7th	80·0	74·5	92·3	+0·8	75·3	−0·3	83·8	+0·3	17·0	97·0	12th	71·5	16th
	Madras	22	29·812	−·010	29·766	29·900	18th	29·702	7th	83·7	76·3	95·4	+2·4	78·7	+1·6	87·1	+2·0	16·7	101·7	12th	73·6	21st
32	Cuddapah	428	29·422	−·004	29·787	29·500	20th	29·351	7th	81·5	75·7	93·2	0	76·1	+0·1	84·7	+0·1	17·1	99·3	1st	66·3	1st
	Bellary	1,475	28·388	+·002	29·796	28·454	20th	28·314	8th	78·3	71·1	91·1	+0·5	72·7	−0·2	81·9	+0·1	18·4	96·3	30th	69·7	17th
	Kurnool	923	28·921	+·007	29·784	28·990	20th	28·840	8th	78·2	74·2	92·5	+2·9	74·8	+1·4	83·8	+2·1	17·7	97·8	2nd & 30th.	70·2	25th
33	Nellore	66	29·744	−·014	29·745	29·837	20th	29·637	7th	83·1	76·0	96·2	+1·6	78·9	+1·2	87·6	+1·4	17·3	103·2	1st	75·2	21st
	Masulipatam	15	29·788	−·004	29·738	29·899	23rd	29·647	7th	82·9	78·0	93·3	+2·5	77·5	−0·1	85·4	+1·2	15·8	99·1	13th	71·7	1st
	Cocanada	26	29·759	+·001	29·722	29·905	22nd	29·605	7th	82·6	78·5	92·4	+2·6	78·6	+0·3	85·5	+1·5	13·8	98·3	13th	74·6	25th
	Waltair (Vizagapatam)	*226*	29·719	−·009	29·695	29·875	23rd	29·535	8th	84·6	78·4	90·1	+1·6	80·5	+2·6	85·3	+2·1	9·6	95·2	6th	77·0	22nd
	Calingapatam	19	29·724		29·681	29·892	21st	29·521	8th	83·0	79·1	92·1		78·3		85·2		13·8	98·2	28th	75·8	15th
	Gopalpur	33	29·685	−·007	29·681	29·872	21st	29·483	8th	83·4	78·4	90·6	+2·4	79·0	+0·6	84·8	+1·5	11·6	98·0	29th	73·3	14th
	Bay Stations.																					
1	P. V. Fraser	8	29·696		29·659	29·927	21st	29·477	8th	84·7	81·2											
	Port Blair	58	29·774	−·047	29·763	29·886	15th	29·647	5th	79·6	76·6	84·5	−0·4	75·7	−0·9	80·1	−0·7	8·8	87·4	14th	73·1	5th
	Table Island		29·721	−·024	29·746	29·838	15th	29·539	6th	80·4	78·4	84·1	−0·4	77·9	+1·1	81·0	+0·3	6·2	86·8	23rd	75·1	7th & 11th.
	Kashmir.																					
13	Muzaffarabad		27·364			27·527	24th	27·195	1st	72·6	65·0	93·3		67·5		80·4		25·8	100·9	9th	60·4	30th
	Srinagar	5,204	24·830	−·015	24·801	24·980	24th	24·706	1st	63·2	57·8	80·9	+1·5	52·8	−1·2	66·9	+0·1	28·1	87·7	9th	46·7	27th
	Gulmarg	*8,569*	21·855	−·021	21·823	21·945	23rd	21·777	4th & 5th.	54·6	49·4	65·1	+1·8	41·8	−1·2	53·4	+0·3	23·3	75·8	1st	36·4	26th
	Dras	*10,059*	20·811	0	20·779	20·924	21st	20·703	2nd	48·4	43·2	68·9	−1·5	39·5	0	54·2	−0·7	29·4	76·2	2nd	34·2	20th
	Leh	*11,503*	19·724	−·016	19·692	19·883	21st	19·604	2nd	50·0	41·0	67·1	−3·2	41·2	−0·4	51·2	−1·8	25·9	73·0	1st	35·4	25th
	Skardu	*7,505*	22·796	−·048	22·766	22·942	21st	22·647	2nd	60·1	49·1	79·9	+2·4	53·5	−0·3	66·7	+1·1	26·4	86·7	6th & 9th.	45·2	26th
	Gilgit	4,890	25·075	+·018	25·048	25·260	25th	24·943	2nd	70·0	60·5	89·6	+2·5	61·6	−2·7	75·6	−0·1	28·0	96·3	7th	48·0	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.

* Mean of 22 days.

B—*continued.*

in India, etc., in September, 1920—*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 1920.	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.
6	6	2	5	1	3	1	2	4	N 16° E	N 52° E	3·5	1·6	+1·9	20	+9	88	+1	·849	+·016	7·0	−0·5	15	−0·4	7·23	10·45	−3·22	107·84	114·07	−6·23	1·03	Mangalore.
4	5	0	5	1	0	1	2	12	N 25° W	N 30° W	4·3	5·2	−0·9	43	+10	93	+4	·876	+·042	7·1	+0·6	8	−3·3	7·29	7·29	0	109·30	96·45	+12·85	3·25	Calicut.
21	0	1	2	2	0	0	1	3	N 38° E	N 5° E	3·2	3·7	−0·5	3	−38	85	0	·834	−·005	5·8	−0·5	14	+0·3	12·08	8·65	+3·43	95·15	85·00	+10·15	3·84	Cochin.
1	2	0	0	0	0	0	4	23	N 48° W	N 16° W	5·3	5·9	−0·6	89	+8	87	+4	·810	+·012	8·1	+1·2	6	−1·6	5·31	3·93	+1·38	55·54	37·19	+18·35	3·01	Trivandrum.
3	2	0	1	1	17	3	2	1	S 10° W	S 42° W	6·2	7·1	−0·9	56	+4	78	+1	·844	−·021	2·8	−0·5	2	0	0·45	1·24	−0·79	0·62	3·26	−2·64	0·22	Pamban.
0	4	1	1	0	0	0	11	13	N 53° W	N 29° W	3·3	2·1	+1·2	72	−6	71	+2	·756	+·009	7·2	+2·3?	8	+1·3	5·91	5·20	+0·71	16·99	15·40	+1·59	2·06	Madura.
6	3	0	0	0	0	0	9	12	N 57° W		3·4			67		70	+2	·735	+·011	4·7	−2·2?	11	+4·0	9·59	5·05	+4·54	20·56‡	17·28	+3·28	2·45	Pudukkottai.
0	0	0	0	0	0	9	8	3	S 81° W	S 72° W	5·3	4·0	+1·3	86	+12	79	+5	·832	+·018	4·6	−0·6	11	+4·8	6·20	3·78	+2·42	11·27	12·21	−0·94	1·74	Negapatam.
0	1	1	0	0	0	13	13	2	S 75° W	N 87° W	3·2	4·7	−1·5	79	+9	74	+2	·790	+·033	4·6	−1·0	12	+5·9	8·64	4·56	+4·08	12·96	14·37	−1·41	2·67	Trichinopoly.
5	0	0	0	0	2	23	0	0	S 42° W	S 33° W	4·4	4·0	+0·4	76	+2	77	−7	·726	−·019	3·8	−1·3	5	+1·9	1·26	1·49	−0·23	6·04	8·15	−2·11	0·41	Coimbatore.
14	0	0	0	0	1	10	2	2	S 57° W	S 43° W	2·4†	2·5	−0·1	40	−20	81	+1	·751	−·030	5·7	−0·4	16	+7·3	9·91	6·50	+3·41	21·57	25·03	−3·46	1·52	Salem.*
4	0	0	0	0	1	16	9	0	S 59° W	S 84° W	5·0	1·9	+3·1	76	+6	79	−1	·835	−·028	5·0	−0·1	7	−0·1	7·25	6·58	+0·67	15·55	16·96	−1·41	1·80	Cuddalore.
16	0	0	0	0	0	0	1	13	N 48° W		3·4			98		77	+4	·778	+·026	4·6	−0·2	7	−2·0	3·65	7·32	−3·67	12·61	23·39	−10·78	1·42	Vellore.
5	0	0	0	0	1	9	13	2	S 74° W	S 68° W	2·6	4·4	−1·8	72	+2	72	−6	·805	−·048	6·1	−0·2	2	−5·2	0·47	5·21	−4·74	6·61	16·80	−10·19	0·23	Madras.
7	1	0	0	1	0	1	11	9	N 71° W	N 84° W				59	−19	76	+2	·821	+·046	6·6	−0·4	7	−1·5	6·84	6·21	+0·63	16·55	20·46	−3·91	3·23	Cuddapah.
2	4	0	0	0	0	2	11	11	N 63° W	N 79° W	5·8	6·7	−0·9	72	−6	69	−1	·868	+·014	4·9	−2·1	9	+1·8	7·96	4·69	+3·27	14·51	12·74	+1·77	2·79	Bellary.
6	0	0	0	0	0	4	12	8	N 82° W	N 88° W	3·2			66	+18	81	+3	·789	+·045	5·7	−0·9	11	+1·5	4·17	6·15	−1·98	8·31	20·35	−12·04	1·02	Kurnool.
7	0	0	0	0	0	2	11	10	N 74° W	N 68° W	2·6	4·9	−2·3	66	+7	71	−3	·801	−·028	6·2	−1·4	5	−1·4	1·51	4·64	−3·13	6·67	12·77	−6·10	0·35	Nellore.
4	0	0	0	0	0	2	11	13	N 70° W	N 68° W	4·6	4·2	+0·4	72	+13	89	−4	·891	−·031	5·9	−1·1	7	−2·3	4·97	5·90	−0·93	16·98	24·66	−7·68	1·60	Masulipatam.
12	0	1	0	0	0	1	15	1	N 87° W	N 87° W	4·6	4·7	−0·1	53	−12	83	+1	·919	+·023	6·4	+0·2	8	−0·2	6·30	5·71	+0·59	22·70	23·09	−0·39	2·29	Cocanada.
4	1	1	0	0	1	0	6	17	N 53° W	N 86° W	5·4			69	+2	75	−4	·889	+·021	6·8	−0·5	1	−8·0	3·84	7·18	−3·34	12·87	24·18	−11·31	0·82	Waltair (Vizagapatam).
4	4	2	0	0	1	2	6	11	N 52° W		3·6			57		83		·936		3·4		8	−0·8	4·34	8·93	−4·59	23·50	32·25	−8·75	0·87	Calingapatam.
0	11	4	1	0	2	6	1	2	N 13° W	N 61° W	4·8	6·8	−2·0	40	−1	79	−6	·909	−·019	5·8	+2·0	7	−2·8	4·59	7·86	−3·27	21·05	30·59	−9·54	2·06	Gopalpur.
																															Bay Stations.
8	0	1	2	1	4	11	6	2	S 50° W					53		85		1·000		6·4		5	−3·5	0·87	4·80	−3·93	18·46	29·47	−11·01	0·28	P. V. Fraser.
1	0	0	0	0	2	7	11	9	S 88° W	S 61° W	9·3	6·9	+2·4	72	+6	87	−3	·873	−·042	8·1	+0·2	18	−2·2	19·89	18·36	+1·53	80·75	83·69	−2·94	3·26	Port Blair.
3	0	0	0	0	1	12	10	4	S 73° W		15·0			72		91	+1	·947	+·008	7·3	−1·2	14	−1·8	9·02	11·93	−2·91	65·12	62·05	+3·07	1·78	Table Island.
																															Kashmir.
22	0	0	0	0	1	6	1	0	S 45° W		1·2			27		66		·526		3·3		5	+0·8	3·07	2·64	+0·42	23·16	28·90	−5·74	1·65	Muzaffarabad.
10	1	1	1	6	2	2	4	3	S 24° W	S 43° E	2·1	2·4	−0·3	17	−8	71	−15	·412	−·050	2·9	−0·3	7	+3·3	1·54	1·67	−0·13	6·60	10·39	−3·79	0·41	Srinagar.
15	1	2	3	7	0	1	1	0	S 67° E		3·4			27		71	−8	·304	−·037	3·7	+0·8	6	+0·9	2·33	2·85	−0·52	7·78§	15·16§	−7·38	0·54	Gulmarg.
24	0	1	0	0	1	1	3	0	S 72° W		5·5			10		69	+6	·235	−·009	2·4	−0·4	1	−0·8	0·53	1·05	−0·52	4·06	5·52	−1·46	0·25	Dras.
29	0	1	0	0	0	0	0	0	N 45° E	N 35° W	1·0	1·4	−0·4	3	−47	50	0	·179	−·014	3·0	−0·4	0	−0·7	0	0·25	−0·25	0·31	1·61	−1·30	0	Leh.
24	0	0	1	1	0	4	0	0	S 18° W		6·4			10		47	−14	·224	−·082	2·3	−1·2	1	−0·3	0·43	0·85	−0·42	0·67	3·24	−2·57	0·37	Skardu.
28	0	0	0	0	0	2	0	0	S 45° W		0·3			3		57	+8	·419	+·038	1·5	−1·9	3	+1·9	0·95	0·34	+0·61	2·32	2·54	−0·22	0·55	Gilgit.

* Mean of 29 days.
† " " 28 "
‡ Rainfall for May, wanting.
§ Rainfall from 1st June 1920.

Table

(2) Abstract of observations taken at 8 hrs. at 212 stations

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
	Baluchistan.																					
15	Fort Sandeman	4,614	25·303		25·272	25·431	21st	25·183	2nd	72·8	59·6	96·0		67·6		81·8		28·4	101·7	2nd	58·7	27th
	Quetta	5,502	24·591	−·016	24·551	24·707	21st	24·501	2nd	58·6	51·1	89·6	+3·9	52·6	+3·4	71·1	+3·7	37·0	94·1	9th	42·5	27th
	Chaman	4,311	25·573	−·069	25·535	25·686	23rd	25·472	6th	74·4	59·3	94·2	+5·4	66·2	+6·0	80·2	+5·7	28·0	99·2	8th	56·6	30th
	Kalat	6,630	23·707		23·669	23·812	21st	23·629	5th	56·9	45·9	86·9	+1·5	52·0		69·4		34·9	91·8	8th	43·2	25th & 26th.
	Dalbandin	2,772	26·980		26·943	27·138	30th	26·873	6th	70·9	52·2	102·9		63·8		83·4		39·1	107·5	2nd	56·1	25th
	Pasni		29·725		29·795	29·958	21st	29·687	1st	79·4	75·6	90·8		66·8		78·8		24·0	99·5	26th	62·4	27th
	Panjgur*		26·637		26·595	26·759	21st & 22nd.	26·533	6th	72·4	62·5	97·4		67·2		82·3		30·2	102·8	7th	56·2	26th
	Seistan		27·981			28·240	30th	27·830	16 days	76·5	65·2	97·1		70·0		83·5		27·1	104·8	20th	60·2	25th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·388	−·015	24·364	24·517	21st	24·288	2nd	70·3	60·1	83·0	+1·4	59·5	+0·6	71·2	+1·0	23·5	88·0	9th	53·3	25th
	Cherat	*4,956*	25·635	−·008	25·603	25·757	21st	25·545	11th	74·0	60·9	86·8	+1·8	63·5	+2·8	77·6	+2·3	18·3	95·2	2nd	57·8	24th
	Drosh (c)		24·953			25·075	22nd	24·825	2nd	67·2	57·3	88·6	−0·1	65·5	+1·2	77·1	+0·5	23·1	96·1	6th	54·0	29th
	Murree	6,181	23·949	−·008	23·917	24·090	22nd	23·624	11th	63·9	56·9	73·6	+0·3	59·0	+0·5	66·3	+0·4	14·6	79·7	8th	49·5	24th
	Simla	7,232	23·092	0	23·054	23·226	21st	22·998	3rd	60·0	54·5	64·6	−1·5	56·3	−0·3	60·4	−0·9	8·3	69·6	30th	51·0	24th
	Chakrata	7,072	23·371		23·331	23·516	21st	23·268	3rd	63·2	57·2	71·5	+2·7	57·1	0	64·3	+1·3	14·4	74·9	6th	52·1	18th
	Mukteswar	7,592	22·827	−·013	22·786	22·957	21st & 22nd.	22·727	3rd & 4th.	59·1	54·5	69·6	+0·5	52·2	−3·2	60·9	−1·3	17·4	73·7	5th	48·8	14th
	Darjiling	7,432	22·940	−·028	22·895	23·080	21st	22·849	3rd	59·6	57·7	66·1	+1·2	56·0	+0·3	61·1	+0·7	10·1	76·5	8th	53·4	11th
	Shillong	4,920	25·076	−·004	25·028	25·236	21st	24·953	3rd	67·7	64·0	73·6	−1·3	62·3	+0·3	68·0	−0·5	11·3	79·7	8th	55·7	20th
	Cherrapunji	4,309	25·633	−·012	25·584	25·759	21st	25·516	3rd	69·0	65·7	72·7	−1·1	65·5	+0·8	69·1	−0·1	7·2	81·0	8th	61·4	18th
	Netarhat									72·2	68·4	78·7		64·7		71·7		14·0	81·8	23rd & 25th.	61·3	27th & 28th.
	Maymyo	3,546	26·348	−·032	26·293	26·490	21st	26·209	4th	68·0	67·2	78·2	+0·9	65·5	+1·1	71·9	+1·0	12·7	83·6	7th	59·8	22nd
	Pachmarhi	3,528	26·377	+·009	26·324	26·502	21st	26·198	9th	72·3	67·9	80·5	+3·3	66·2	0	73·4	+1·7	14·2	88·0	30th	62·1	29th & 30th.
	Mount Abu	3,945	26·001	+·018	25·951	26·132	21st	25·902	5th	69·9	64·0	77·7	+2·6	65·5	+0·9	71·6	+1·7	12·2	85·0	24th	61·9	15th
	Mercara	3,781	26·203	−·007	26·126	26·267	19th	26·157	7th	65·1	61·0	72·5	+0·7	61·0	−0·8	66·9	−0·1	11·5	77·4	30th	59·9	7th & 9th.
	Ootacamund	*7,327*	23·041	+·011	22·977	23·096	19th	22·994	7th	57·5	55·8	64·4	+0·8	51·8	+0·7	58·1	+0·7	12·6	66·2	27th	48·2	12th
	Kodaikanal	7,688	22·809	−·004	22·744	22·858	20th	22·726	7th	56·9	54·6	63·7	+0·6	52·1	−0·1	57·9	+0·3	11·6	66·6	27th	48·8	9th
	Extra India.																					
	Singapore (a)	10	29·838	−·107	29·769	29·900	14th	29·779	5th & 7th.	83·3		88·0	+0·1	75·8	+1·3	81·7	+0·7	12·7	91·5	5th	72·0	18th
	Penang (a)	17								81·5		88·0	−0·4	71·6	−2·5	79·8	−1·5	16·4	91·0	6th & 26th.	70·0	6 days.
	Trincomalee	99	29·774	0	29·802	29·945	21st	29·699	6th	78·1	73·5	94·2	+3·7	76·6	0	85·4	+1·9	17·6	98·0	2nd	71·1	5th
	Colombo	24	29·907	−·011	29·857	29·975	18th	29·854	6th	77·7	75·0	85·4	−0·9	76·4	−0·7	80·9	−0·8	9·0	88·9	14th	73·1	21st
	Hambantota	64	29·841		29·831	29·927	18th	29·788	6th	77·2	74·3	86·6	−0·4	76·1	+0·9	81·3	+0·3	10·5	93·1	10th	73·0	29th
	Minicoy	7	29·966			30·029	19th	29·915	26th													
	Amini Divi	*13*	29·915	−·014	29·856	29·981	19th	29·850	26th	81·4	76·5	85·9	+0·6	77·4	+0·3	81·6	+0·5	8·5	89·6	21st	72·7	22nd
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok*	5,667	24·228†	−·217†	24·183†	24·387	21st	24·124	5th	63·6	61·2	71·8	−2·1	60·7	+7·1	66·3	+2·5	11·1	78·3	26th & 27th.	58·0	11th

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 29 days.
† „ „ 24 „

B—*continued.*

in India, etc., in September, 1920—*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 1920.	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.
20	0	2	0	0	3	5	0	0	S 23° W		8·3			20		44		·363		0·3		0	−0·3	0·06	0·11	−0·05	4·92	4·81	+0·11	0·04	Fort Sandeman.
30	0	0	0	0	0	0	0	0	Calm	S 45° W	1·5	1·6	−0·1	(a)		60	+13	·299	−·008	0·1	−0·2	0	−0·2	0	0·07	−0·07	0·44	1·68	−1·24	0	Quetta.
18	0	1	2	5	2	2	0	0	S 38° E	S 8° E	8·4	5·7	−2·3	27	−11	40	+10	·325	+·084	0·1	−0·1	0	0	0	0	0	0·08	0·25	−0·17	0	Chaman.
23	0	0	0	0	4	3	0	0	S 19° W	S 14° W	3·8			20	−20	42	+ 2	·196	−·064	0·1		0	0	0	0·02	−0·02	0·30	1·38	−1·08	0	Kalat.
15	2	5	1	3	1	1	1	1	N 60° E		3·9			13		22		·181		0·2		0	0	0	0	0	0·24	0·23	+0·01	0	Dalbandin.
9	1	0	3	1	0	1	7	8	N 61° W		6·5			37		84		·834		4·1		0	0	0·01	0·01	0	0·11	1·76	−1·65	0·01	Pasni.*
16	1	4	2	2	1	1	1	1	N 69° E		4·3†			13		56		·441		0·8		0		0			0·12			0	Panjgur.
0	0	0	0	0	0	0	0	30	N 45° W		13·4			96		53		·486		0		0		0						0	Seistan.
																															Hill stations excluding Kashmir and Baluchistan.
0	0	0	0	0	0	0	0	0	Calm		0·5			(a)		56	+ 5	·413	+·042	1·2	−2·2	5	+0·8	1·65	2·00	−0·35	13·53	13·61	−0·08	0·57	Parachinar.
15	3	2	1	1	6	0	0	2	S 61° E	S 32° W	2·4	5·8	−3·4	7	+ 2	47	−13	·388	−·084	0·6	−1·5	1	−1·9	1·05	2·23	−1·18	5·67	12·91	−7·24	0·94	Cherat.
27	0	0	2	1	0	0	0	0	S 75° E		3·6			10		54	+ 2	·358	−·021	1·2	−0·4	2	+0·2	1·05	0·66	+0·39	4·55	4·65	−0·10	0·50	Drosh.
21	3	0	2	2	1	0	0	1	N 64° E	N 37° W	3·4	4·2	−0·8	10	− 9	66	0	·391	0	3·3	+0·6	7	+0·1	4·29	5·65	−1·36	18·83	38·20	−19·37	1·25	Murree.
																72	− 5	·370	−·028	3·6	−0·6	12	+3·4	9·42	6·04	+3·38	54·71	49·88	+4·83	3·09	Simla.
7	0	3	11	1	1	2	5	0	S 82° E	N 21° E	6·6	4·4	+2·2	23	+10	71	−13	·411	−·045	3·5	−0·2	6	−2·1	4·38	6·78	−2·40	31·17	56·48	−25·31	1·66	Chakrata.
4	1	3	2	1	0	1	17	1	N 80° W		7·9			46		75	− 8	·377	−·055	3·5	−1·8	7	−2·2	2·07	7·49	−5·42	39·66	41·18	−1·52	0·69	Mukteswar.
23	0	3	2	0	0	1	1	0	N 59° E	S 89° E	1·7	2·7	−1·0	7	−12	90	− 4	·455	−·023	7·8	−0·3	18	+1·3	23·40	18·19	+5·21	99·83	112·46	−12·63	6·18	Darjiling.
15	0	1	5	3	2	2	2	0	S 43° E		2·1			23		82	− 3	·555	−·019	7·2	+0·8	19	+1·6	9·26	10·48	−1·22	50·78	68·85	−18·07	2·46	Shillong.
8	2	10	0	4	3	2	1	0	N 76° E		4·1			23		85	− 6	·595	−·025	6·7	−0·6	19	+0·2	67·62	34·94	+32·68	319·12	357·34	−38·22	13·60	Cherrapunji.
0	4	4	1	0	0	1	12	8	N 51° W		7·5			63		82		·652		3·9		8		4·47			52·89			1·70	Netarhat.
21	0	1	1	0	0	7	0	0	S 37° W		0·9			17		91	+ 1	·644	−·035	7·6	+1·0	10	−5·3	3·81	11·16	−7·35	33·20	45·59	−12·39	0·74	Maymyo.
3	1	0	0	0	1	1	8	16	N 62° W	N 85° W	4·4	4·5	−0·1	72	+18	81	− 3	·630	+·004	3·1	−3·3	5	−8·2	9·45	14·08	−4·63	53·42	70·62	−17·20	3·13	Pachmarhi.
5	2	2	0	2	0	12	6	1	S 65° W	S 70° W	5·4	5·8	−0·4	43	− 1	75	− 4	·533	−·013	4·8	−0·3	3	−4·4	1·14	8·55	−7·41	40·25	56·25	−16·00	0·47	Mount Abu.
6	0	0	0	0	0	2	12	10	N 75° W	N 67° W	4·1	5·3	−1·2	69	− 5	94	+ 1	·582	+·005	8·0	−0·5	16	−1·8	7·97	10·56	−2·59	125·75	110·48	+15·27	1·60	Mercara.
16	0	0	1	1	0	0	7	5	N 71° W		3·4			30		86	+ 3	·413	+·029	7·5	+0·4	16	+3·9	5·98	5·77	+0·21	26·54	35·07	−8·53	1·38	Ootacamund.
1	2	1	0	2	2	0	10	2	N 65° W		6·7			59		87	+ 9	·402	+·031	5·9	+0·2	17	+4·6	12·39	6·73	+5·66	28·52	28·50	+0·02	2·12	Kodaikanal.
																															Extra India.
13	0	0	1	6	2	3	0	0	S 2° W					39						7·8	+1·9	10	+0·3	8·80	5·70	+3·10	31·91	31·95	−0·04	2·13	Singapore.
0	2	15	0	7	1	1	0	4	N 54° E					49								13	−1·6	3·86	14·45	−10·59	44·23	48·77	−4·44	0·74	Penang.
0	0	0	0	0	0	19	11	0	S 62° W	S 43° W	7·8	9·3	−1·5	36	− 8	80	− 1	·760	−·088	6·5	+3·67	7	+0·9	2·88	4·65	−1·77	9·11	14·58	−5·47	0·69	Trincomalee.
8	0	0	1	0	0	14	7	0	S 58° W	S 57° W	3·9	6·7	−2·8	62	−19	88	+ 6	·829	−·036	7·6	+1·3	5	−3·2	1·59	4·57	−2·98	31·25	31·89	−0·64	0·52	Colombo.
0	0	0	0	0	0	13	17	0	S 71° W		12·7			89		87		·808		4·7		2		0·50	2·31	−1·81	6·49	10·69	−4·20	0·21	Hambantota.
0	9	0	0	0	0	0	6	15	N 40° W	N 75° W	5·0	8·5	−3·5	87	+ 7					4·0	−1·2	9	−0·9	9·74	6·15	+3·59	48·50	35·83	+9·67	3·30	Minicoy.
0	2	1	0	0	0	0	12	15	N 59° W		12·0			83		79	− 2	·843	−·024	5·8	−0·5	8	−2·4	6·08	5·77	+0·31	29·78	42·27	−12·49	2·02	Amini Divi.
																															Gyantse.
																															Pharijong.
24	1	2	1	0	1	0	0	0	N 62° E		0·6†			7		88	− 3	·519	−·040	7·8	+2·3	18	−2·9	16·18	17·95	−1·77	105·88	106·63	−0·75	2·91	Gangtok.

* Mean of 29 days.
† " " 28 "

(a) Indeterminate.

Tab

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

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.*																					
	Gavtok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·493	—·137		25·652	21st	25·365	18th	64·9	59·3	81·2	−1·9	55·4	−1·9	68·3	−1·9	25·8	88·8	1st	49·3	27th
	Kabul (*c*)									60·0	54·6	86·4	+5·5	52·7	+0·9	69·6	+3·2	33·7	96·4	1st	42·5	30th
	Meshed	3,104																				
	Jask	13	29·746	—·001	29·712	29·923	23rd	29·635	6th	84·2	80·3	93·3	+0·3	78·2	−2·9	85·7	—1·3	15·1	99·4	26th	75·6	10th
	Muscat	20	29·772	+·024	29·741	29·925	21st	29·669	17th	84·0	77·8	90·6	+1·5	81·0	−2·1	85·8	−0·3	9·6	98·3	27th	77·6	23rd
	Bushire	14	29·714	—·013	29·690	29·852	22nd	29·562	6th	86·1	80·3	93·8	−0·2	81·0	+1·8	87·4	+0·8	12·8	96·7	6th	73·5	18th
	Busrah	25																				
	Ispahan (*c*)	*5,817*	24·244	—·136		24·430	23rd	24·130	17th	66·7	54·9	91·7	+1·9	62·1	+6·2	76·9	+4·1	29·6	98·4	6th & 8th.	51·2	29th 30th.
	Tehran (*c*)	*4,002*	25·680	—·190		25·900	23rd	25·570	4 days	73·4	62·0	88·0	−2·7	66·2	+3·0	77·1	+0·1	21·8	98·6	8th	51·0	28th
	Baghdad	127	29·653	—·008	29·752	29·818	29th	29·467	2nd	76·0	60·4	101·0	−2·3	72·9	+0·4	86·9	—0·5	28·1	111·1	3rd	60·8	29th
	Aden *	94	29·713	—·025	29·739	29·824	21st	29·614	11th	85·0	79·6	92·9	—0·6	83·0	+0·4	88·0	—0·1	9·9	95·7	8th & 10th,	81·1	25th
	Zanzibar	72	30·077	+·008	30·076	30·146	1st	29·979	16th	76·1	71·6	82·3	0	72·7	—0·9	77·5	—0·5	9·6	84·3	21st	70·9	7th

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.

B—*concluded.*

tations in India, etc., in September, 1920—*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 May to 30th September 1920.	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.*
																										0·26			2·53			Gartok.
28	2	0	0	0	0	0	0	0		N	N 29° W	0·6	2·2	−1·6	6	− 5	73	+19	·446	+·112	2·7	+0·3	3	+2·3	0·95	0·28	+0·67	4·99	2·08	+2·91	0·44	Kashgar.
											S 13° W															0·03			1·29			Kabul.
21	2	1	0	2	2	0	0	2		N 45° E		1·8			3		71	+22	·371	+·047	2·0	+1·5	1	+0·9	0·14	0·01	+0·13	4·51	1·69	+2·82	0·11	Meshed.
2	2	3	17	4	1	0	0	1		N 87° E	S 81° E	8·5	9·8	−1·3	69	+ 6	84	+10	·982	+·067	3·3	+1·8	0	0	0	0	0	0	0·08	−0·08	0	Jask.
17	0	0	1	7	0	0	0	5		S 59° E	N 72° E	2·1	2·8	−0·7	7	−22	75	0	·872	−·038	2·4	+1·3	0	0	0	0	0	0	0·17	−0·17	0	Muscat.
11	2	3	2	4	1	1	0	6		N 28° E	N 60° E	5·9	5·0	+0·9	17	−35	77	+10	·958	+·110	1·5	+0·9	0	0	0	0	0	0	0·03	−0·03	0	Bushire.
																										0·12			0·45			Busrah.
25	0	0	0	0	0	2	3	0		S 76° W	N 72° W	1·0	2·5	−1·5	13	−21	49	− 3	·316	−·060	0·6	+0·2	0	−0·1	0·03	0·04	−0·01	0·04	0·32	−0·28	0·03	Ispahan.
27	0	1	0	2	0	0	0	0		S 70° E	N 62° E	3·2	2·0	+1·0	6	− 6	53	+10	·430	+·081	1·3	+0·7	3	+2·8	0·72	0·06	+0·66	1·84	0·84	+1·00	0·28	Tehran.
2	8	2	1	1	1	0	12	3		N 49° W	N 11° W	5·6	1·8	+3·8	49	− 3	36	− 8	·321	−·142	2·1	+1·6	1	+1·0	0·17	0	+0·17	0·26	0·25	+0·01	0·17	Baghdad.
13	0	9	1	0	4	2	0	0		N 88° E	S 56° E	5·0	7·0	−2·0	17	−13	79	+ 4	·950	+·008	4·7	+0·8	1	+0·8	0·16	0·15	+0·01	0·16	0·48	−0·32	0·16	Aden.
6	0	0	0	5	11	7	1	0		S 6° W	S 5° E	3·7	4·1	−0·4	63	−23	80	− 3	·714	−·035	6·6	+0·5	4	−1·1	1·63	2·19	−0·56	19·03	19·08	− 0·05	0·62	Zanzibar.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in September, 1920.

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	80·3	77·1	90·9	+1·2	65·7	−7·6	78·3	−3·2	25·2	95·3	5th	63·1	21st & 29th.	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	81·2	77·0	98·8	+8·6	65·3	−9·8	92·1	−0·6	33·5	99·4	4 days	62·8	12th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	76·4	73·5	91·2	+0·9	68·0	−7·0	80·1	−3·1	23·2	100·0	25th	60·7	19th	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	78·3	75·7	89·8	+0·2	74·0	−0·3	81·9	−0·1	15·8	98·5	9th	70·7	29th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	78·3	76·1	89·2	+0·2	74·4	−0·8	81·8	−0·3	14·8	97·2	8th	70·8	29th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	78·9	77·3	88·7	+0·2	72·1	...	80·4	...	16·6	93·9	9th	69·2	18th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	80·3	77·6	90·2	+0·1	76·3	+0·5	83·3	+0·3	13·9	97·2	26th	72·0	18th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	78·8	76·7	89·3	−0·2	73·3	−2·7	81·3	−1·5	16·0	94·9	5th	70·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	80·4	77·0	89·0	...	74·4	...	81·7	...	14·6	95·4	5th	70·5	20th	...	...	...	...	...	...	...	...	...	...	...
	Messa	83·6	78·7	94·1	+4·0	74·1	−1·7	84·1	+1·1	20·0	99·1	27th	71·5	30th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	76·7	76·0	89·0	+0·2	73·1	−0·6	81·1	−0·2	15·9	96·4	5th	70·2	18th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·8	72·2	93·1	+3·7	70·2	−7·5	81·7	−1·9	22·9	96·8	5th	68·3	29th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	85·0	80·2	89·0	−0·3	77·6	0	83·3	−0·1	11·4	93·7	27th	73·2	19th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	82·9	79·5	90·8	−3·0	75·3	−1·0	83·1	−2·0	15·5	97·0	7th	72·1	19th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	75·4	74·1	88·6	−3·2	72·2	−1·6	80·4	−2·4	16·4	95·1	27th	67·8	16th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	80·0	75·7	86·9	−2·6	70·6	−3·2	78·7	−2·9	16·3	95·6	27th	64·0	16th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	79·7	75·3	86·0*	−4·1	72·1	−1·7	77·7*	−2·9	13·9	93·1	7th & 8th.	68·0	16th & 19th.	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	81·4	77·7	90·4	...	76·6	...	83·5	...	13·8	95·4	18th	70.3	19th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 29 days.

C.

and fifth class stations in India, etc., in September, 1920.

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 1920.	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.
...	...	...	...	...	86	− 9	·888	−·010	...	...	11	−4·3	11·87	10·84	+1·03	76·04	75·19	+0·85	2·30	Bishnath.
...	...	...	...	...	82	− 9	·873	−·057	...	...	13	−0·5	9·31	10·45	−1·14	53·83	69·90	−16·07	2·21	Borjuli.
...	...	...	...	...	68	− 2	·796	−·142	...	...	17	+0·7	14·41	9·67	+4·74	91·92	83·82	+8·10	2·28	Chandkhira.
...	...	...	...	...	89	− 3	·854	−·038	...	...	13	−2·2	7·68	10·77	−3·09	66·55	73·50	−6·95	2·02	Doom Dooma.
...	...	...	...	...	90	− 1	·874	−·019	...	...	11	−4·2	9·95	11·41	−1·46	67·53	78·59	−11·06	2·10	Dikom.
...	...	...	...	...	93	+ 2	·916	−·009	...	...	9	−3·5	6·53	7·49	−0·96	37·78	62·06	−24·28	3·10	Golaghat.
...	...	...	...	...	89	− 2	·910	+·011	...	...	17	+1·9	14·64	11·87	+2·77	85·67	91·12	−5·45	3·24	Hailakandi.
...	...	...	...	...	90	0	·887	−·034	...	...	11	−2·5	7·56	9·88	−2·32	59·72	62·38	−2·66	1·71	Jorehat.
...	...	...	...	...	86	...	·879	..	...	...	12	+2·2	6·40	6·37	+0·03	29·29	36·67	−7·38	1·29	Lumding.
...	...	...	...	...	79	− 7	·915	−·032	...	...	14	+0·5	8·94	9·04	−0·10	57·10	65·92	−8·82	1·39	Messa.
...	...	...	...	...	96	+ 1	·887	+·052	...	...	12	+0·1	10·41	9·00	+1·41	63·41	64·25	−0·84	2·26	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	21	+7·9	20·01	10·49	+9·52	79·24	72·25	+6·99	3·20	Comilla.
...	...	...	...	...	61	−25	·657	−·306	...	...	15	+2·3	13·58	9·38	+4·20	62·45	66·20	−3·75	2·02	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	16	+4·1	15·91	8·83	+7·08	58·07	56·23	+1·84	4·03	Faridpur.
...	...	...	...	...	80	− 4	·963	+·010	...	...	14	+2·7	8·53	8·08	+0·45	46·40	52·21	−5·81	1·82	Goalundo.
...	...	...	...	...	86	+ 2	·938	−·028	...	...	13	+2·2	9·02	7·81	+1·21	45·88	48·96	−3·08	1·30	Pabna.
...	...	...	...	...	...	...	...	...	...	...	17	+5·7	12·29	9·45	+2·84	45·23	53·15	−7·92	2·14	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	14	+2·0	8·99	9·86	−0·87	25·66	47·24	−11·58	1·38	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	12	+1·1	18·44	9·55	+8·89	40·87	45·40	−4·53	5·33	Malda.
...	...	...	...	...	...	...	...	...	...	...	13	−0·1	26·74	13·97	+14·77	75·36	70·43	+4·93	6·81	Rangpur.
...	...	...	...	...	94	0	·824	−·093	...	...	16	−2·0	29·66	22·03	+7·63	114·04	138·16	−24·12	5·88	Dam Dim.
...	...	...	...	...	80	− 6	·849	−·096	...	...	16	+0·5	30·47	19·52	+10·95	136·61	129·17	+7·44	4·53	Kalchini.
...	...	...	...	...	80	− 6	·821	−·063	...	...	15	−2·9	25·95	22·16	+3·79	121·81	137·32	−15·51	3·94	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	17	+1·7	48·16	25·84	+22·32	192·83	127·55	+65·28	10·04	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	15	+4·3	5·81	8·09	−2·28	40·91	47·07	−6·16	1·02	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	8	−3·6	4·69	8·71	−4·02	45·13	47·76	−2·63	1·25	Bankura.
...	...	...	...	...	84	...	·901	...	5·2	...	9	−2·6	6·65	8·05	−1·40	37·66	45·41	−7·75	3·09	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	8	−3·8	7·27	9·10	−1·83	40·56	45·82	−5·26	3·90	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	14	+4·8	20·38	9·03	+11·35	45·37	44·17	+1·20	6·24	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	11	+2·3	16·35	7·22	+9·13	38·24	44·45	−6·21	7·52	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	10	+1·1	9·49	9·23	+0·26	50·32	50·16	+0·16	2·50	Motihari.
...	...	...	...	...	...	...	...	...	...	...	11	+2·5	13·61	6·85	+6·76	38·65	37·70	+0·95	3·14	Chapra.
...	...	...	...	...	...	...	...	...	...	...	10	+1·0	11·10	7·66	+3·44	49·84	39·77	+10·07	2·85	Arrah.
...	...	...	...	...	...	...	...	...	...	...	7	−1·8	2·13	6·74	−4·61	28·86	37·07	−8·21	0·57	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	76·7	71·2	87·6	...	69·3	...	78·5	...	18·3	94·3	29th	65·9	27th & 30th	23	0	0	0	0	0	0	2	5	N 59° W	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·9	72·8	91·3	...	73·5	...	82·4	...	17·8	96·3	2nd & 30th	70·5	2nd	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	82·4	76·7	95·0	...	76·9	...	85·9	...	18·1	102·2	30th	73·0	2nd	...	...	...	...	...	...	...	...	...	...	...
	Koraput	71·1	69·2	80·8	...	67·2	...	74·0	...	13·6	86·2	30th	65·8	1st	...	...	...	...	...	...	...	...	...	...	...
	Bay Stations.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	82·2	70·7	94·8	...	76·5	...	85·6	...	18·3	99·4	7th	68·3	13th	2	11	11	3	2	1	0	0	0	N 37° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	60·4	46·1	78·7	...	40·7	...	59·7	...	38·0	87·0	6th	30·5	30th	7	0	0	0	6	0	8	0	9	S 69° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	75·0	72·4	85·1	−2·8	69·2	−3·7	77·1	−3·3	15·9	94·9	8th	64·1	13th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	66·9	66·3	75·1	+1·4	63·1	−1·1	69·1	+0·1	12·0	80·5	25th	58·4	16th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	75·5	+1·9	51·5	−0·4	63·6	+0·7	24·1	80·9	6th	44·8	18th	19	0	1	0	2	2	6	0	0	S 16° W	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	90·2	+1·5	48·0	+0·6	69·1	+1·1	42·2	95·4	2nd & 9th	38·0	27th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in September, 1920—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									
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 1920.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
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	−4·0	0·11	6·14	−6·03	25·88	27·71	−1·83	0·11	Meerut.
...	...	...	...	...	...	...	...	...	...	...	6	−4·4	3·74	9·45	−5·71	66·35	74·72	−8·37	1·35	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	1·18	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	1	−4·2	0·30	3·88	−3·58	22·31	21·54	+0·77	0·22	Udaipur.
																				XII.—Central Provinces.
0·9	...	...	20	...	76	...	·697	...	2·9	...	6	−3·3	4·09	7·26	−3·17	25·96	34·66	−3·70	2·37	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	7	−2·4	1·45	7·95	−6·50	10·08	28·67	−18·59	0·31	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	+0·3	0·37	1·24	−0·87	1·88	4·20	−2·32	0·19	Tinnevelly.
...	...	...	...	...	78	...	·741	...	4·2	...	6	−2·8	5·83	8·29	−2·46	11·32	18·05	−6·73	2·97	Anantapur.
...	...	...	...	...	76	...	·841	...	0·8	...	10	−0·5	2·51	5·90	−3·39	18·94	23·28	−4·34	0·70	Guntur.
...	...	...	...	...	91	...	·695	...	...	...	11	...	6·36	...	...	42·12	...	...	1·00	Koraput.
																				Bay Stations.
...	...	...	...	...	...	...	...	...	...	...	19	+3·9	14·73	12·95	+1·78	41·51	58·56	−17·05	2·20	Car Nicobar.
																				Kashmir.
...	...	...	67	...	55	...	·612	...	2·1	...	4	+0·8	1·81	2·43	−0·62	20·25	29·52	−9·27	0·80	Jammu.
...	...	...	...	...	...	...	...	...	...	...	7	−0·1	2·66	3·69	−1·03	16·01	18·79	−2·78	0·69	Sonamarg.
...	...	...	27	...	32	...	·164	...	1·9	...	0	−0·6	0	0·15	−0·15	0·81	1·70	−0·89	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	0	1·03	0·51	+0·52	5·73	6·33	−0·60	1·03	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	88	+5	·761	−·020	...	...	17	−1·3	23·71	21·51	+2·20	100·45	123·17	−22·72	3·67	Panighatta.
...	...	...	...	...	97	+8	·639	+·026	...	...	19	−0·3	25·45	20·63	+4·82	108·72	144·28	−35·56	3·41	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	24	+1·0	20·95	14·54	+6·41	117·20	131·20	−14·03	?	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	14	−2·6	7·28	5·62	+1·66	40·60	42·03	−1·43	1·06	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	13·27	...	...	122·66	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	9	...	6·78	...	...	44·16	...	...	2·82	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	6	−4·4	3·38	10·15	−6·77	61·19	82·38	−21·19	1·80	Mussooree.
...	...	...	23	...	...	...	...	...	2·9	−0·5	0	−1·6	0	0·56	−0·56	4·63	2·96	+1·67	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−2·9	0·09	2·02	−1·93	4·42	8·33	−3·91	0·07	Kailang.
...	...	...	...	...	...	...	...	...	...	...	0	0	0	0	0	0·01	0·44	−0·43	0	Pishin.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

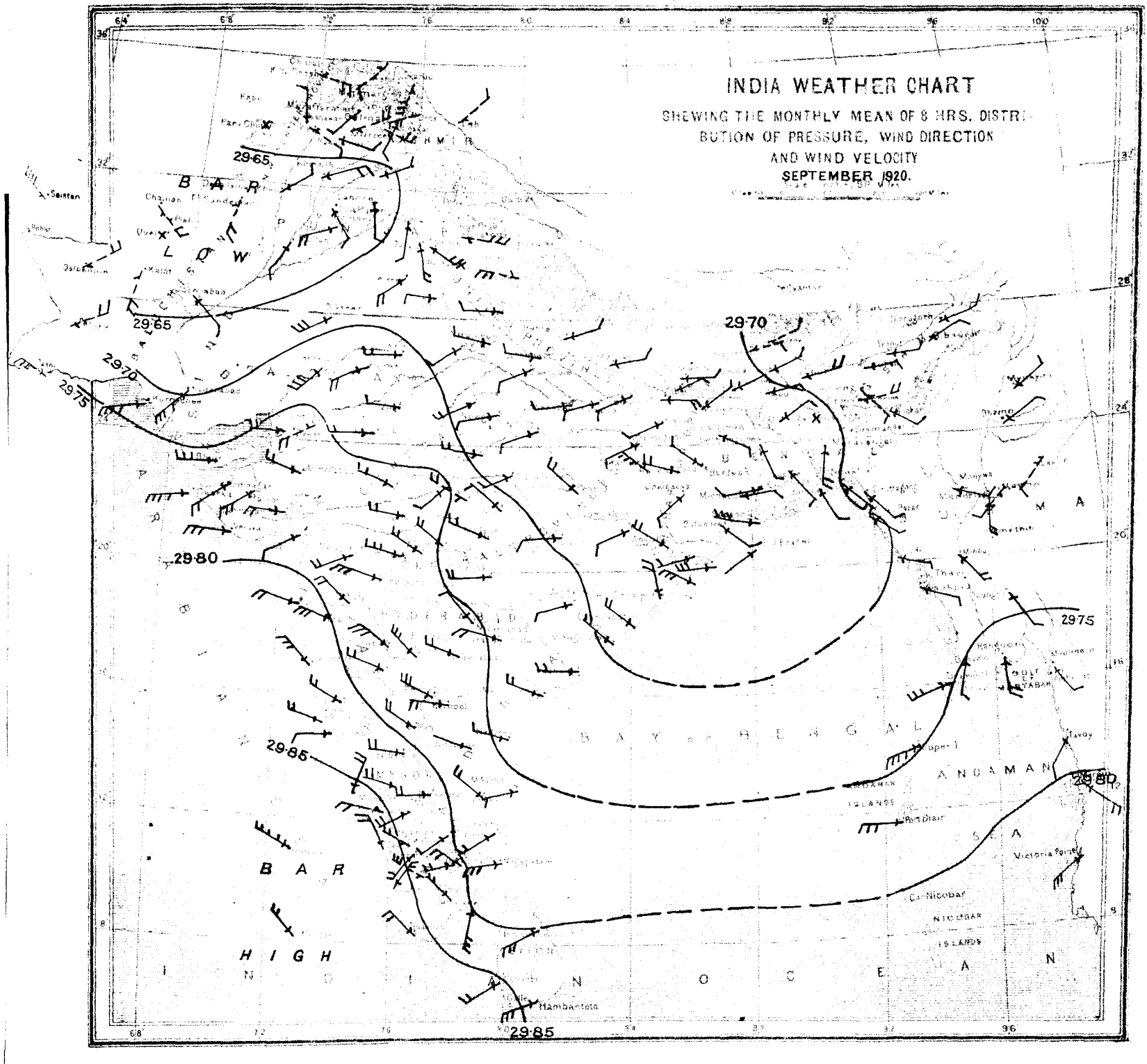
Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	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.																								
	Chumbi	53·0	52·0	64·4	...	48·6	...	56·5	...	15·8	67·4	1st & 11th.	43·4	30th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	93·1	74·9	107·7	...	76·9	...	92·3	...	30·8	115·5	4th	70·5	29th	0	20	0	0	1	7	0	2	0	N 6° W	...

C—*concluded.*

and fifth class stations in India, etc., in September, 1920—*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 September 1920.	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.
...	...	...	...	...	94	...	·379	...	5·1	...	7	−3·0	5·29	2·94	+2·35	19·78	24·80	−5·02	1·55	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	0	−3·1	0·04	1·27	−1·23	26·07	28·54	−2·47	0·03	Pemba.
...	...	...	40	...	48	...	·623	...	...	...	0	...	0	...	...	0	...	...	0	Abadan.

SGPI-31-IV-5-(10)-9-2-23-325.

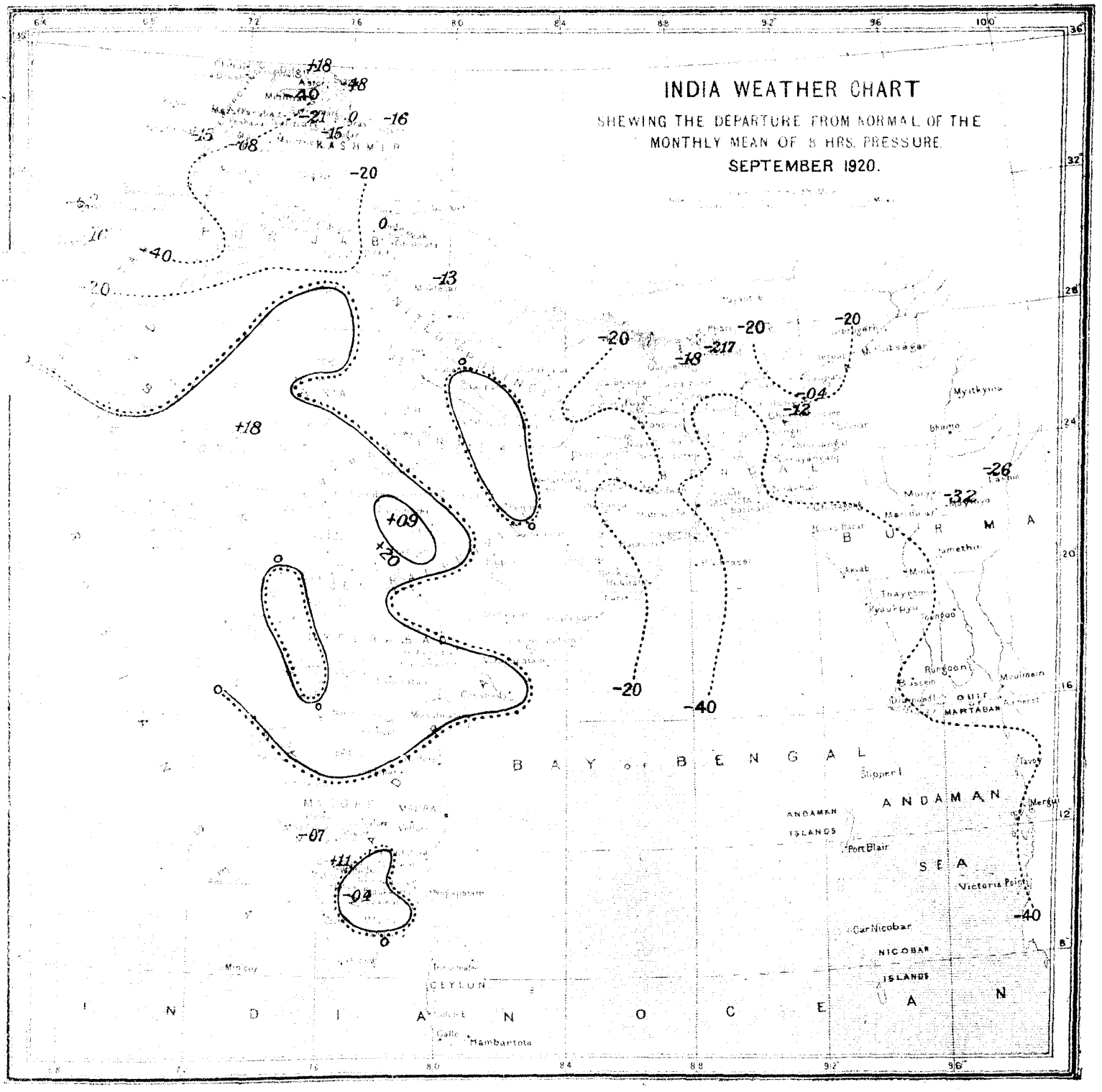


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

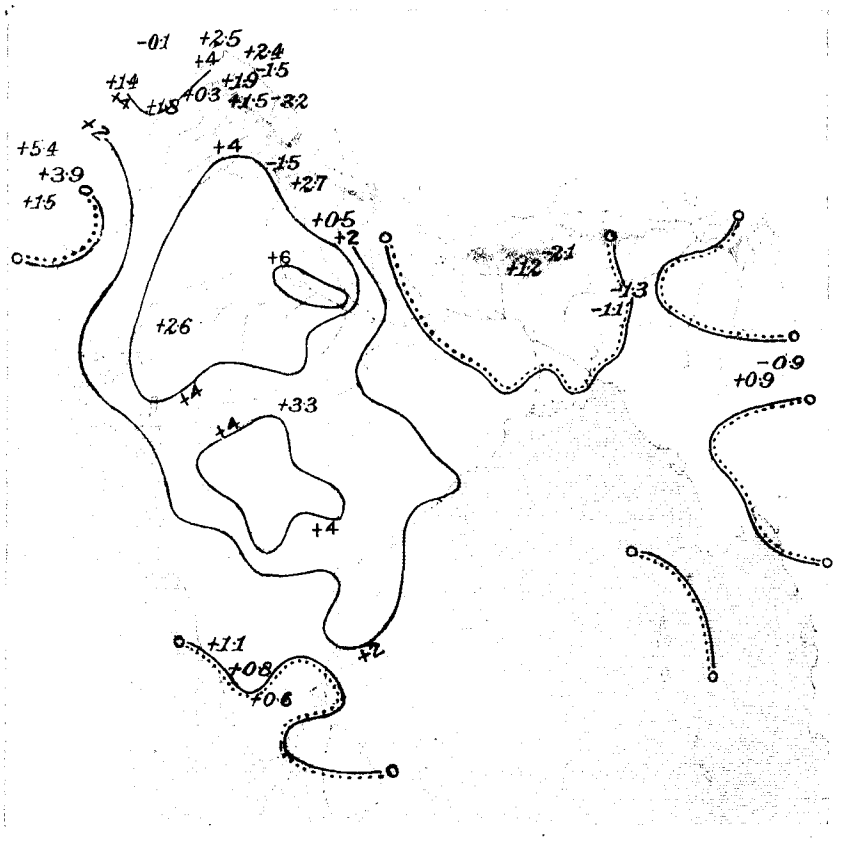


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

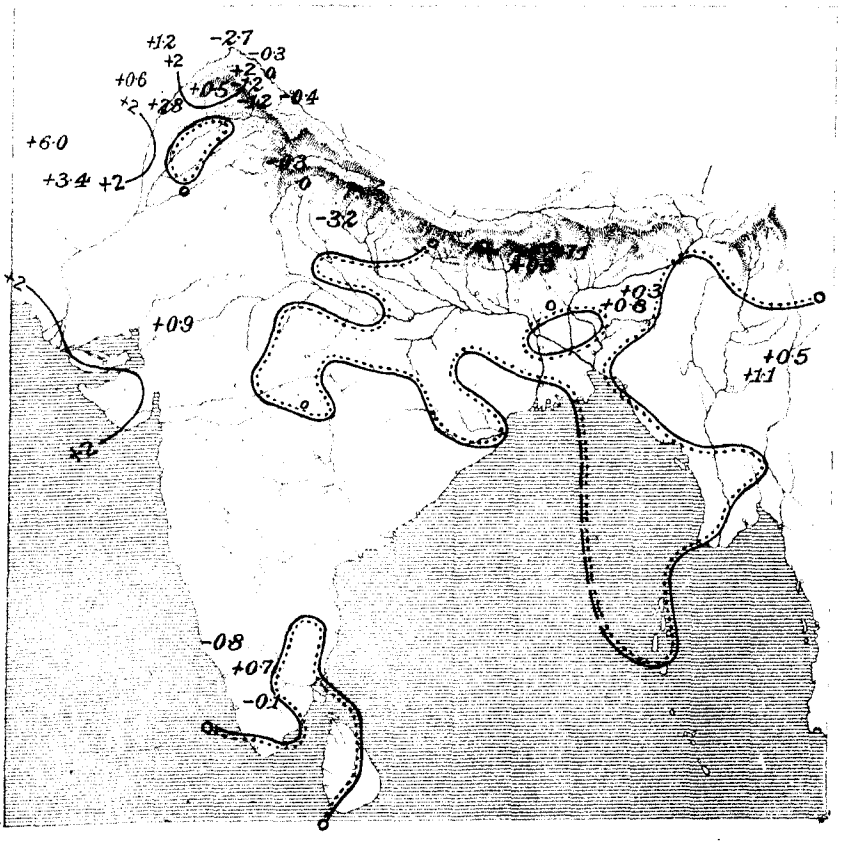


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

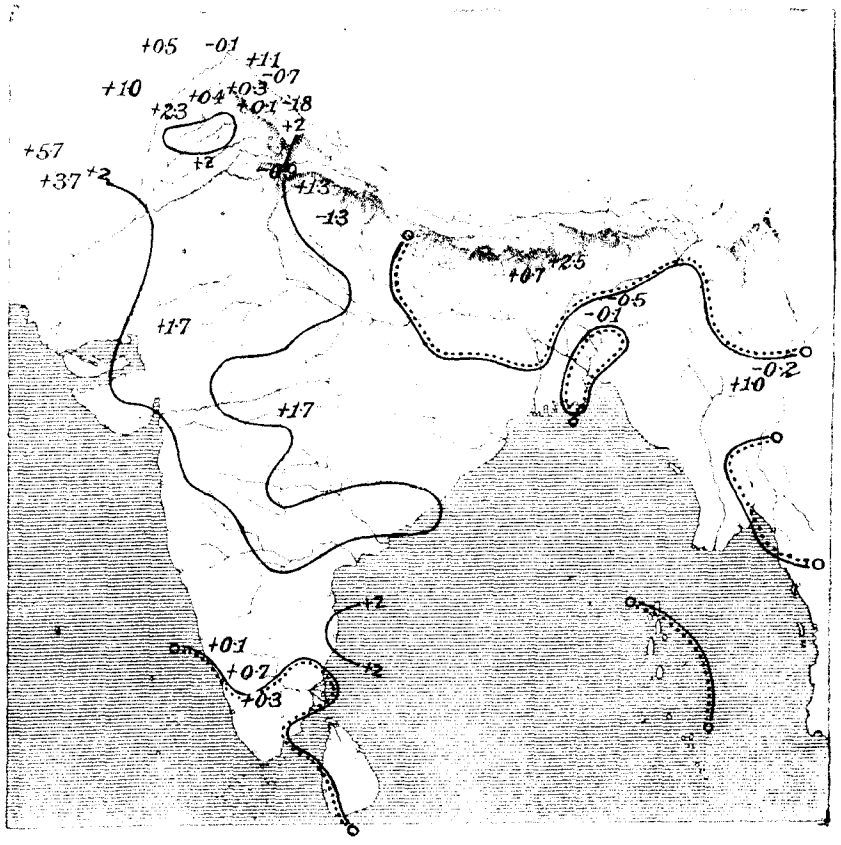


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

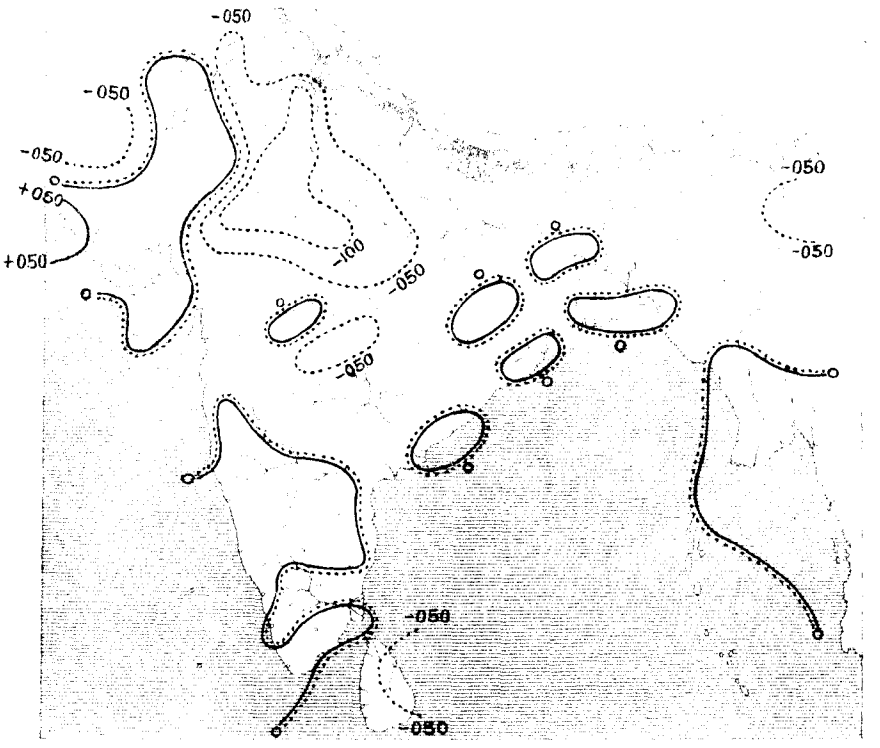


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

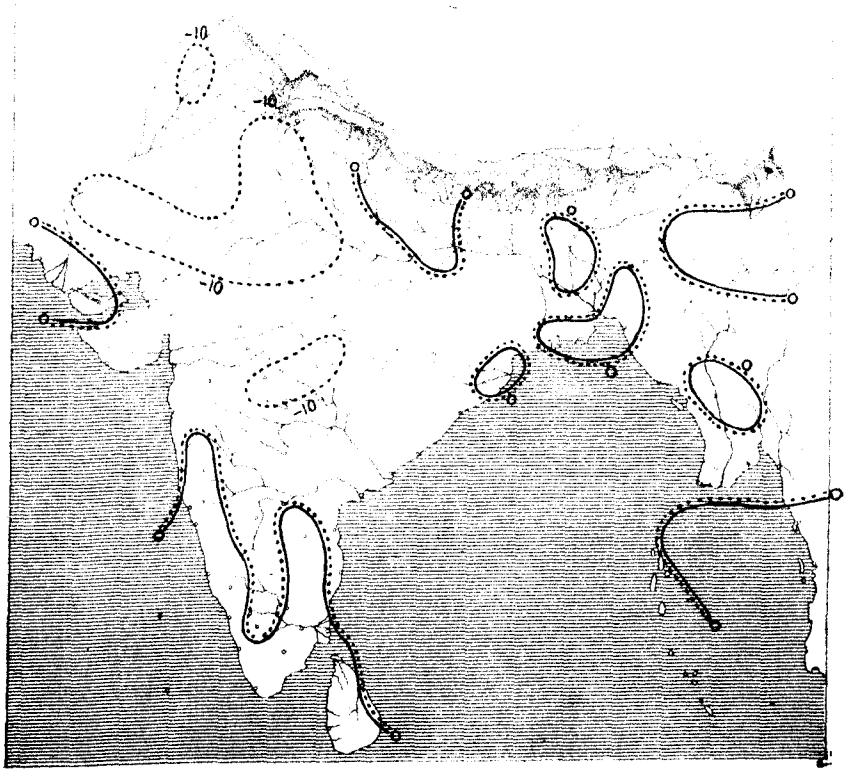


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

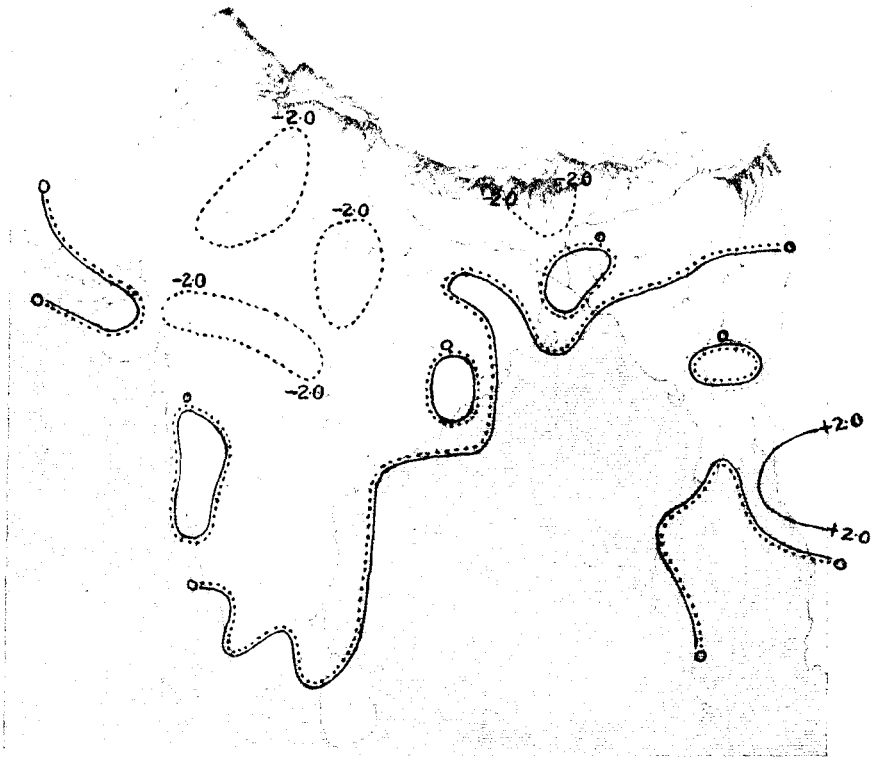
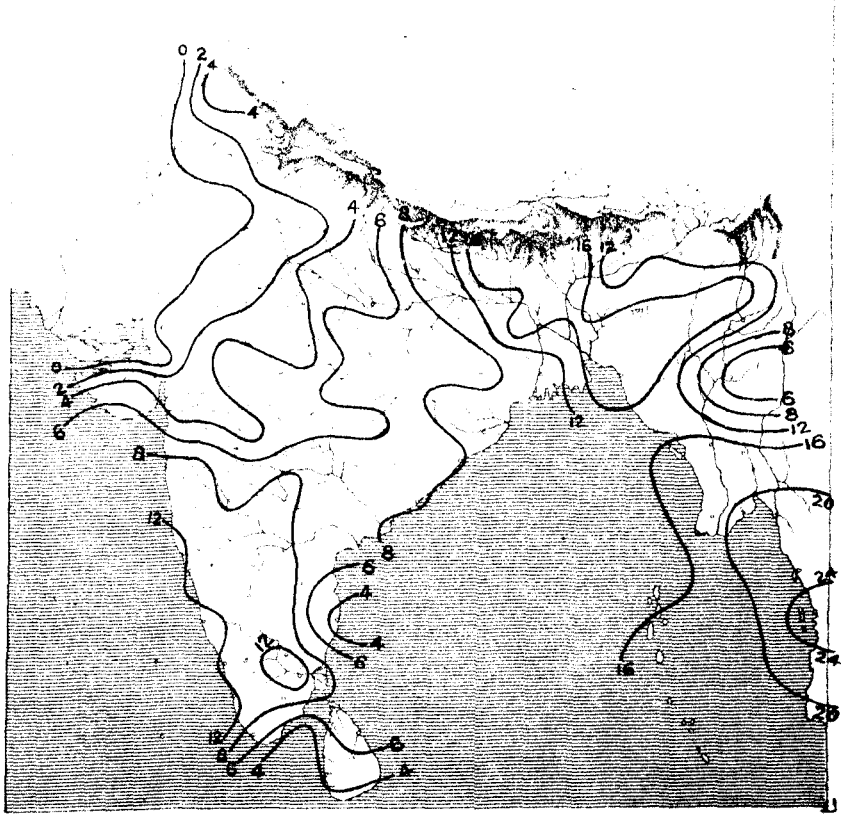
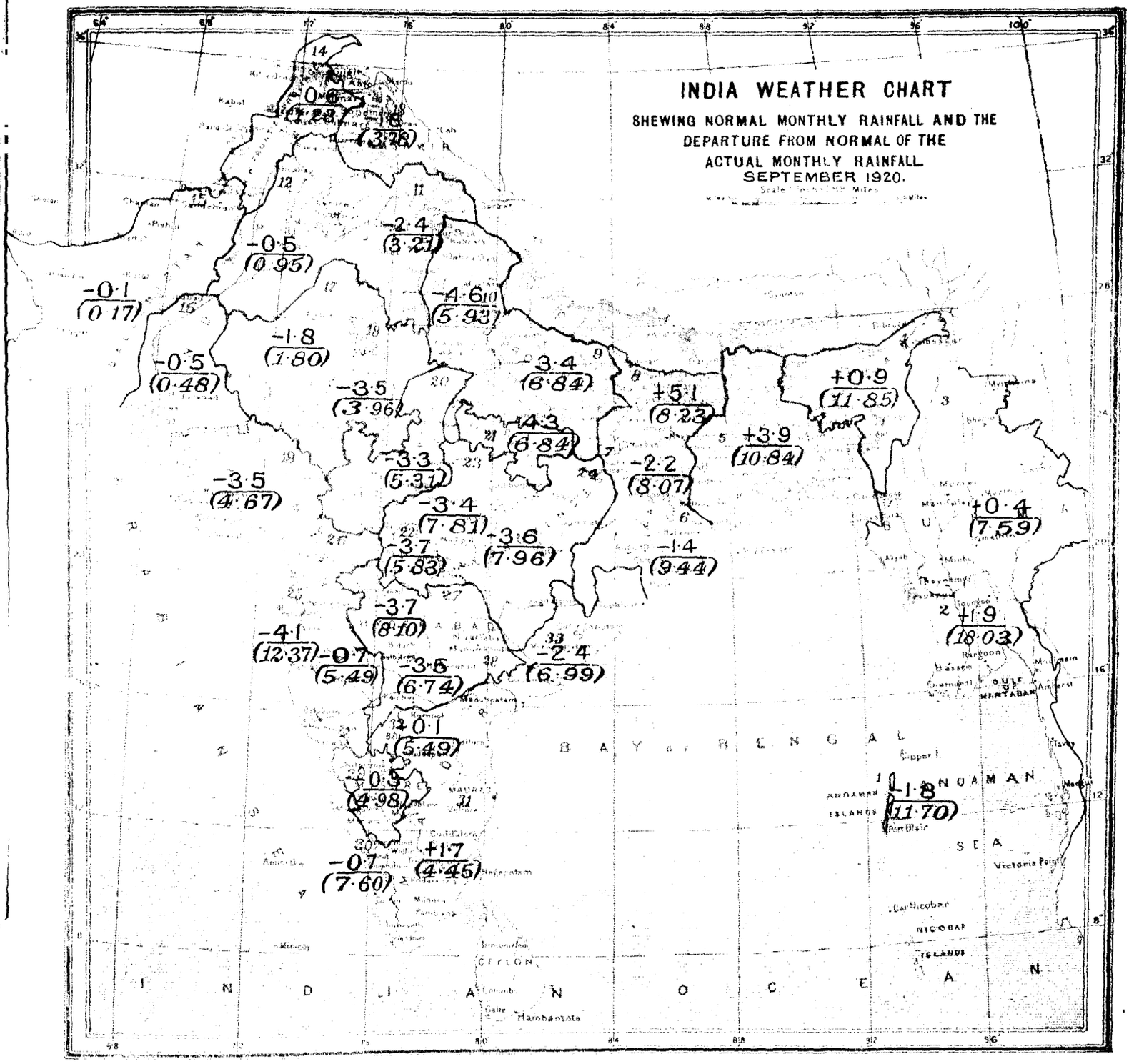


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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

PUBLISHED BY ORDER OF

THE GOVERNMENT OF INDIA.

CALCUTTA, OCTOBER, 1920.

INTRODUCTION

THIS review of the weather in India during the month of October, 1920, is based on observations taken daily at 8 hrs. at 212 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 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 monsoon was weak during October and its activity was chiefly controlled by two depressions in the Bay and an area of unsettled weather in the Arabian Sea. The first depression appeared in the south of the Bay on the 3rd, and travelling slowly northwards crossed the Bengal coast near Saugor Island on the 10th, and broke up in the hills of north Bengal. The associated rainfall was heavy on the north Madras coast and in Bengal. The second depression formed in the south of the Bay on the 27th and was at the end of the month situated in the centre of the Bay. The unsettled weather in the Arabian Sea was of little importance beyond carrying rainfall to the Konkan and the Bombay Deccan.

Four western disturbances passed across the extreme north during the month; the associated rainfall was light and confined to the hills around the Punjab.

The total rainfall of the month was in moderate excess in Bengal, nearly normal in Burma and Madras, and in slight defect in Assam and Mysore. Over the rest of the country it was in moderate to large defect; there was little or no rain over most of northwest India, in the United Provinces and the central parts of the country.

In Persia rainfall was below normal along the coast, but considerably above normal at the northern stations. Rainfall was also in considerable excess at Zanzibar.

Cloud proportion was higher than usual in the northern half of the Peninsula, Orissa, west Bengal and Burma; it was generally in defect over the rest of the country. Both absolute and relative humidities were low in Rajputana and the central parts of the country, and the relative humidity alone in the United Provinces, the Punjab and Hyderabad. Maximum temperature was high over nearly the whole area of scanty rainfall, the excess being most marked in the north of the Peninsula and the east of the United Provinces. Minimum temperature was slightly above normal in the Punjab and Hyderabad.

Averaged over the plains of India barometric pressure was +·003″ above normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The sun was examined for spots and faculae on 29 days during the month, but complete prominence observations were possible only on 20 days.

Sunspots.—Twelve new groups were recorded with a daily average of 3·5. The average life of a spot was 7·5 days. The distribution of the spots in latitude is given below:—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	4	3	12°·6	8° & 18°
South	2	3	12°·0	5° & 17°

Prominences.—Forty-five prominences reaching a height of 1′ or more, and 6 metallic prominences were observed. The greatest height recorded was 210″ on the 22nd.

Magnetic Disturbances.—"Moderate" disturbances were registered on the 10th and continuously from the 24th to the 28th.

T. ROYDS,
Acting 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	18·0	1	2·5
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.)	Remarks.
1920.		h. m. s.						
Oct. 12th	e P	7 07 48	...	...	...	...	...	
	e L	7 17 30	...	...	...	...	...	
	M	7 21 06	...	...	50	...	...	
	F	7 25 12	...	...	...	...	...	
Oct. 18th	e P	8 25 24	...	...	...	...	...	
	i L	8 31 48	...	...	...	...	...	
	M	8 33 36	...	...	160	...	...	
	F	9 56 42	...	...	...	...	...	
„ 20th	e P	10 21 18	...	...	...	...	...	
	e L	10 29 30	...	...	...	...	...	Hour signal 10 h. 30 m.
	M	10 30 30	...	...	50	...	...	
	F	10 55 36	...	...	...	...	...	
„ 22nd	e P	12 30 40	...	...	...	...	...	Hour signal at 12 h. 30 m. Other phases uncertain.
„ 22nd	e L	13 30 30	...	...	...	...	...	"P" uncertain.
	M	13 32 36	...	...	90	...	...	Hour signal at 3 h. 30 m.
	F	14 05 06	...	...	...	...	...	
„ 28th	e P	8 19 12	...	...	.	...	...	
	e L	8 25 24	...	...	...	...	...	
	M	8 30 48	...	...	40	...	...	
	F	8 33 06	...	...	...	...	...	
„ 28th	e P	13 10 30	...	...	...	...	...	
	e L	13 23 18	...	...	...	...	...	
	M	13 26 24	...	...	50	...	...	
	F	?	...	...	...	...	...	Overlapping.
„ 28th	e P	?	...	...	...	...	...	Overlapping.
	e L	14 09 00	...	...	...	...	...	
	M	14 20 18	...	...	120	...	...	
	F	14 58 42	...	...	...	...	...	

A. A. NARAYANA AIYAR,
Acting Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of October 1920, the traces showed 9 calm days, 21 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 9th, 11th, 12th, 15th and 30th.

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	M
2	S	10	S	18	S	26	S
3	S	11	C	19	S	27	S
4	S	12	C	20	C	28	S
5	S	13	S	21	S	29	S
6	S	14	C	22	S	30	C
7	S	15	C	23	S	31	C
8	S	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° 18′ 57.″
Horizontal force . . .	0·36922 C. G. S. units.
Vertical force . . .	0·17171 „ „
Inclination	24° 56′·5.
Horizontal force range . .	·00051 „ „
Horizontal force summed range	·00296 „ „
Declination range . . .	2′·5.
Declination summed range .	9′·3.

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

Seismic records.

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

Apparatus.—Omori-Ewing Horizontal Pendulum (E.-W.).

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.
1920. Oct. 12th	P	h. m. s. 7 2 13	...	...	...	...	...	
	M	7 4 44	...	...	175	...	...	
„ 18th	P	8 22 30	...	...	...	...	...	
	M	8 31 27	...	...	60	...	...	
„ 20th	P	10 12 24	...	...	...	...	...	
	M	10 31 47	...	...	30	...	...	
„ 28th	P	13 59 43	...	...	...	...	...	
	M	14 7 25	...	...	35	...	...	

SHAMSHAD ALIKHAN,
for *Director,*
Bombay and Alibag Observatories.

5.—CALCUTTA (ALIPORE) OBSERVATORY.

Seismic records.

ϕ=22° 32′ N ; λ=88° 20′ E ; h=6·4 m. *Subsoil*—Alluvial

Apparatus.—Two Omori-Ewing Horizontal Pendulum Seismographs.

TABLE 5.

	V	To	G	$\frac{r}{To^2}$
AN:	29	18	1	
AE:	29	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	As.	Distance Δ (Km.)	Remarks.
1920.		h. m. s.						
Oct. 12th	P	6 58 18	2	...	...	...	...	
	S	7 0 48	3	...	...	...	...	
	L	7 2 48	10	...	...	...	...	
	M	7 3 36	...	379	690	...	...	
	F	7 42 42	...	...	...	...	...	
„ 12th	P	7 54 18	?	...	...	...	...	
	L	7 56 18	5	...	...	...	...	
	F	8 19 18	...	...	...	...	...	
„ 18th	P	8 21 6	2	...	...	...	...	
	L	8 28 42	5	...	...	...	...	
	F	9 38 48	...	...	...	...	...	
„ 20th	P	10 8 24	3	...	...	...	...	
	S	10 13 54	7	...	...	...	...	
	L	10 20 30	12	...	...	...	...	
	M	10 22 18	...	...	259	...	...	
	F	10 49 54	...	...	...	...	...	
„ 20th	P	19 22 6	2	...	...	...	...	
	S	19 29 30	7	...	...	...	...	
	L	19 35 0	12	...	...	...	...	
	F	20 0 0	...	...	...	...	...	
„ 24th	P	1 51 54	?	...	...	...	...	
	L	2 1 12	5	...	...	...	...	
	F	2 34 24	...	...	...	...	...	

6.—SIMLA OBSERVATORY.

Seismic records.

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

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

TABLE 6.

	V	To	ε	r/To²
An:	14	45	1	
Ae:	14	45	1	
As:				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	As.	Δ (Km.)	Remarks.
1920.		h. m. s.						
Oct. 12th	P	6 56 12	...	...	...	...	...	
	e M	6 57 36	...	...	...	...	...	
	F	7 26 00	...	...	...	...	...	Slight local shock.
„ 18th	P	8 21 24	...	...	...	...	...	
	S	8 29 00	...	...	...	...	...	
	M	8 43 12	...	136	...	...	...	
	F	9 34 42	...	...	..	...	...	
„ 20th	e P	10 16 00	...	...	...	...	...	
	L	10 24 30	25	...	...	...	...	
	M	10 25 06	...	114	...	...	...	
	F	10 45 36	...	...	...	...	...	
„ 22nd	e	12 45 42	...	...	...	...	...	
	M	12 52 36	...	36	...	...	...	
	F	13 59 30	...	...	...	...	...	
„ 27th	e	8 1 36	...	...	...	...	...	
	F	8 33 30	...	...	...	...	...	Tremors.
„ 27th	e	13 33 12	...	...	...	...	...	
	F	14 58 42	...	...	...	...	...	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.
	1920.	h. m.	Sec.			
Drosh . . .	Oct. 10th	5 15	3	6	2	
" . . .	" 10th	5 30	5	9	1	One stable fallen 3 mules were killed.
Arbil (Mesopotamia)	Oct. 14th	evening	...	...	...	
" "	" 15th	morning	...	...	...	
Drosh . . .	" 17th	13 14	30	7	3	
Rahpur (Cutch) .	" 18th	3 00	...	...	...	

S. SITARAMAYYA,
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 two representative stations :—

TABLE 8.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	0	+·008	Observatory temporarily closed.
Actual mean wind direction . .	S 68° E	S 13° W	
Normal mean wind direction . .	S 76° E	S 20° E	Observatory temporarily closed.
Actual mean wind velocity (miles per diem).	178	77	
Normal mean wind velocity (miles per diem).	194	89	
Rainfall departure from normal in inches	+0·31	+2·49	

Depressions and cyclonic storms.

8. There were two depressions in the Bay during the month.

The first developed between Madras and Port Blair on the 2nd, and on the 3rd moved towards the north Coromandel coast. Then it slowly changed its direction of motion, and travelled in a north-northeasterly direction roughly parallel to the coast; it crossed the Bengal coast east of Saugor Island on the 10th and disappeared over north Bengal and west Assam during the 12th. It caused widespread rain in south Madras and locally heavy rain on the coast from Madras to Saugor Island. In Bengal and Assam it gave nearly general rain with very heavy local falls between the 9th and 12th. Balurghat in the Dinajpur District had 11 inches on the 10th.

The second formed in the south-west of the Bay on the 27th and was almost stationary during the next three days. At the end of the month it was in the centre of the Bay midway between Madras and Port Blair. It moved slowly northwards during the next four days and disappeared on the 4th in the north of the Bay in about the latitude of Cocanada. It caused widespread rain in the southern half of the Peninsula with locally heavy rain on the Coromandel coast; and on moving northwards gave heavy rain in Pegu and Irawadi between the 30th October and 4th November.

Four western disturbances passed across the extreme north of India; one of them gave between the 13th and 17th light local rain in the North-West Frontier Province and Kashmir with isolated falls associated with dust-storms in the United Provinces. The others gave little or no rain.

Pressure.

9. The following table gives the departure from normal of the mean 8 hrs. pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	+·018
Assam	+·025
Bengal	+·010
Bihar and Orissa	+·008
United Provinces	+·006
Punjab	—·015
North-West Frontier Province	—·021
Sind	—·009
Rajputana	—·010
Bombay	+·001
Central India	—·004
Central Provinces	0
Hyderabad	+·007
Mysore	+·001
Madras	0

The following table gives a comparison of the departure from normal of mean 8 hrs. pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 10.

HILL STATION.	Departure from normal pressure. A	PLAIN STATION.	Departure from normal pressure. B	Departure of pressure difference. B—A.
	"		"	"
Quetta	+·005	Jacobabad	—·016	—·021
Leh	+·043	Lahore	—·023	—·066
Murree	+·012	Peshawar	—·032	—·044
Simla	+·029	Ludhiana	—·005	—·034
Mukteswar	+·024	Bareilly	+·008	—·016
Darjiling	+·005	Dhubri	+·016	+·011
Mount Abu	+·017	Deesa	+·003	—·014
Pachmarhi	+·009	Khandwa	—·001	—·010
Kodaikanal	+·002	Madura	+·009	+·007

Temperature.

10. Table 11 gives the actual temperature 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	84·6	76·9	80·8	7·7	—1·5	—0·3	—1·2
2. Lower Burma	86·5	74·7	80·6	11·9	—0·6	—0·6	0
3. Upper Burma	88·6	71·5	80·1	17·1	—0·1	—0·5	+0·4
4. Assam	86·3	70·9	78·6	15·3	—0·2	—0·1	—0·1
5. Bengal	87·6	74·4	81·0	13·2	+0·1	+0·7	—0·6
6. Orissa	90·2	74·3	82·2	15·9	+1·1	+0·9	+0·2
7. Chota Nagpur	90·9	68·8	79·9	22·1	+3·4	+0·8	+2·6
8. Bihar	90·1	72·6	81·4	17·5	+1·4	+1·1	+0·3
9. United Provinces, East	94·9	68·1	81·5	26·9	+4·6	+0·6	+4·0

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	96·2	67·2	81·7	29·0	+4·6	+1·5	+3·1
11. Punjab, East and North	95·3	64·6	80·0	30·7	+2·9	+2·5	+0·4
12. Do., South-west	97·8	64·2	81·1	33·6	+2·5	+0·8	+1·7
13. Kashmir	67·5	41·4	54·5	26·1	—2·0	—0·3	—1·7
14. North-West Frontier Province	94·5	61·9	78·3	32·7	+3·5	+2·4	+1·1
15. Baluchistan	85·3	51·8	68·6	33·5	+1·9	+1·5	+0·4
16. Sind	95·7	69·7	82·7	26·0	+1·2	+1·0	+0·2
17. Rajputana, West	100·6	69·7	85·2	30·9	+4·1	+0·3	+3·8
18. Do., East	97·6	67·5	82·6	30·1	+3·8	+1·1	+2·7
19. Gujarat	96·7	71·5	84·1	25·3	+2·7	+0·6	+2·1
20. Central India, West	94·1	64·3	79·1	29·8	+4·3	+0·5	+3·8
21. Do. do., East	93·2	64·5	78·9	28·7	+4·2	—0·9	+5·1
22. Berar	96·8	71·3	84·1	25·5	+7·3	+3·9	+3·4
23. Central Provinces, West	93·9	65·9	79·9	28·0	+4·9	+0·2	+4·7
24. Do. do., East	90·9	67·4	79·2	23·5	+4·3	+0·2	+4·1
25. Konkan	88·1	76·6	82·3	11·5	+1·3	+1·6	—0·3
26. Bombay Deccan	91·6	68·5	80·0	23·1	+3·0	+1·9	+1·1
27. Hyderabad, North	95·7	70·7	83·1	24·9	+6·2	+3·6	+2·6
28. Do., South	93·5	72·7	83·1	20·8	+3·8	+2·4	+1·4
29. Mysore	84·3	66·9	75·6	17·5	+1·1	+0·9	+0·2
30. Malabar	84·9	75·3	80·1	9·6	—0·5	+0·7	—1·2
31. Madras, South-east	90·0	74·9	82·4	15·1	+0·6	+0·8	—0·2
32. Do., Deccan	91·6	73·5	82·5	18·1	+0·3	+1·4	—1·1
33. Do. Coast, North	88·6	76·3	82·4	12·3	—0·3	+0·7	—1·0

TABLE 12.

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

Division.	Departure from normal of		
	Mean maximum temperature.	Mean minimum temperature.	Mean temperature.
	°	°	°
Sind	+1·2	+1·0	+1·1
Rajputana	+3·9	+0·8	+2·4
Bombay	+2·5	+1·2	+1·9
Central India	+4·3	—0·2	+2·0
Central Provinces	+5·3	+1·4	+3·3
Hyderabad	+4·6	+2·8	+3·7
Mysore	+1·1	+0·9	+1·0
Madras	+0·1	+0·8	+0·5

Surface and upper air winds.

11. *Surface.*—There were no noteworthy departures from the normal wind directions.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·3	0	27	+ 1
Assam	2·0	+0·2	42	+18
Bengal	1·4	—0·4	16	— 6
Bihar and Orissa	1·6	—0·4	31	+ 2
United Provinces	1·0	—0·3	25	+ 7
Punjab	1·9	+0·3	29	+ 6
North-West Frontier Province	0·5	—0·7	16	— 4
Sind	3·8	—1·1	39	+16
Rajputana	2·8	0	32	— 4
Bombay	3·6	—0·9	37	+ 1
Central India	1·5	—1·0	22	— 7
Central Provinces	2·4	+0·1	26	+ 4
Hyderabad	4·4	—0·3	20	+ 8
Mysore	4·1	+0·4	14	— 1
Madras	3·8	+0·4	37	— 1

Upper air.—The monthly mean velocities and directions at different heights above Agra, Lahore and Bangalore during the month are given in the following table :—

TABLE 14.

Height above sea, kms.	Agra. Height above sea= 0·17 km.				Lahore. Height above sea= 0·21 km.				Bangalore. Height above sea= 0·92 km.			
	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	31	1·6	0·2	237	23	0·1	0·1	111	25	3·3	0·9	15
0·5	30	5·2	2·1	234	23	5·0	1·4	176	...	...	...	...
1·0	31	4·0	2·5	281	23	4·0	1·2	310	26	4·1	1·7	21
1·5	31	4·6	3·3	311	23	4·2	2·7	324	26	5·8	2·9	39
2·0	30	6·1	5·4	317	23	5·1	3·9	321	24	6·3	4·5	53
2·5	30	7·1	6·4	322	23	6·0	4·9	320	18	7·1	5·9	40
3·0	30	7·2	6·3	320	23	6·4	5·5	323	16	7·5	5·2	37
3·5	30	6·9	5·6	324	23	6·5	5·6	326	15	7·6	5·1	35
4·0	30	7·1	5·6	325	23	6·8	5·8	329	15	5·9	3·0	5
4·5	30	7·4	6·1	317	23	6·7	5·7	323	12	6·7	1·5	297
5·0	30	8·5	6·8	307	23	6·9	5·9	310	9	4·2	1·6	288
5·5	30	9·6	7·7	297	23	7·8	6·5	300	9	3·9	0·6	235
6·0	30	10·8	9·1	293	21	10·3	9·0	294	9	4·2	0·5	170
6·5	29	12·1	10·4	288	21	12·2	10·9	291	8	3·7	1·6	87

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.			
	N	V	v	L	N	V	v	L	N	V	v	L
7·0	28	14·1	12·4	286	21	14·0	12·9	289	8	4·1	3·3	97
7·5	27	16·3	14·4	279	21	16·4	15·4	287	8	4·4	3·1	95
8·0	26	17·8	15·8	279	20	18·1	17·0	286	8	4·5	3·1	91
8·5	23	19·8	17·9	274	20	20·5	19·3	283	7	4·9	4·0	91
9·0	18	20·6	18·5	275	20	23·0	21·7	286	7	4·6	3·9	93
9·5	14	22·3	20·8	277	17	24·2	22·6	283	6	5·8	4·2	105
10·0	11	22·8	20·9	275	11	25·2	22·7	279	6	6·3	4·5	113
10·5	7	23·8	22·3	269	8	25·7	22·2	277	6	6·7	4·9	120
11·0	2	25·3	21·9	277	5	25·7	23·4	271	6	7·1	5·6	109
11·5	2	28·0	25·3	277	3	30·0	28·9	258	5	6·4	5·5	111
12·0	1	30·0	30·0	255	2	33·0	31·0	266	4	7·1	6·1	117
12·5	1	31·0	31·0	245	1	36·5	36·5	285	3	7·2	7·0	138
13·0	...	...	...	...	...	...	..	...	3	6·8	6·3	140
13·5	...	...	...	...	...	...	...	...	1	8·0	8·0	160

N = Number of flights.
V = Velocity of wind, regardless of direction, metre per sec.
v = Velocity of Resultant Wind, taking account of direction, metre per sec.
L = Direction of Resultant Wind, North wind = 0° or 360°, East wind = 90°.

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 15.

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 . . .	87	—1	·831	—·026	6·0	+0·6
Assam . . .	90	0	·789	—·003	5·0	+0·2
Bengal . . .	86	+1	·858	+·012	3·6	+0·1
Bihar and Orissa .	78	—2	·767	+·024	2·7	0
United Provinces .	63	—7	·587	—·013	0·2	—1·0
Punjab . . .	52	—6	·432	—·016	0·3	—0·3
North-West Frontier Province.	63	+3	·443	+·022	0·5	—0·3
Sind . . .	60	—2	·573	—·011	0·4	—0·4
Rajputana . .	40	—9	·387	—·064	0·2	—0·8
Bombay . .	67	—2	·668	—·014	3·3	+0·4
Central India .	50	—13	·473	—·065	0·5	—1·3
Central Provinces .	54	—14	·503	—·081	2·4	+0·1
Hyderabad . .	59	—9	·602	—·038	4·4	+0·6
Mysore . .	79	—2	·637	—·002	5·5	—0·9
Madras . . .	82	+2	·833	+·020	5·5	+0·3

Rainfall.

13. The total rainfall of the month was in moderate excess in Bengal, and slightly above normal in the Bay Islands, Lower Burma, Malabar and the Madras Coast North. It fell short of the normal by less than 15 per cent. in Upper Burma, Assam and Madras Southeast. Over the rest of the country it was in moderate to large defect, weather being dry or almost so over most of northwest India, the United Provinces and the central parts of the country.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	11·0	10·0	8·20	7·08	+1·12	+ 16
2. Lower Burma	10·9	10·5	8·88	7·93	+0·95	+ 12
3. Upper Burma	7·0	7·5	5·12	5·64	—0·52	— 9
4. Assam	6·6	6·5	4·64	5·35	—0·71	— 13
5. Bengal	5·3	5·2	6·71	4·78	+1·93	+ 40
6. Orissa	2·8	5·1	2·64	4·27	—1·63	— 38
7. Chota Nagpur	0·3	3·1	0·13	2·08	—1·95	— 94
8. Bihar	0·7	2·6	0·35	2·31	—1·96	— 85
9. United Provinces, East	0·2	1·7	0·09	1·94	—1·85	— 95
10. Do., West	0·2	0·8	0·10	0·83	—0·73	— 88
11. Punjab, East and North	0·1	0·5	0·03	0·29	—0·26	— 90
12. Do., South-west	0	0·2	0	0·09	—0·09	—100
13. Kashmir	1·1	1·7	0·64	0·98	—0·34	— 35
14. North-West Frontier Province	0·3	0·8	0·09	0·39	—0·30	— 77
15. Baluchistan	0	0·4	0	0·23	—0·23	—100
16. Sind	0	0	0	0·02	—0·02	—100
17. Rajputana, West	0	0·3	0	0·18	—0·18	—100
18. Do., East	0	0·5	0·01	0·44	—0·43	— 98
19. Gujarat	0	0·9	0	0·65	—0·65	—100
20. Central India, West	0	0·9	0	0·57	—0·57	—100
21. Do., East	0	1·2	0	0·98	—0·98	—100
22. Berar	0·1	2·1	0·03	1·49	—1·46	— 98
23. Central Provinces, West	0	2·0	0	1·41	—1·41	—100
24. Do., East	0·1	2·4	0·04	1·79	—1·75	— 98
25. Konkan	3·6	5·3	2·57	3·92	—1·35	— 34
26. Bombay Deccan	2·6	4·5	1·57	2·96	—1·39	— 47
27. Hyderabad, North	0·5	3·2	0·15	2·31	—2·16	— 94
28. Do., South	2·8	4·1	1·30	2·85	—1·55	— 54
29. Mysore	6·0	7·9	3·86	5·44	—1·58	— 29
30. Malabar	15·1	13·4	13·62	11·74	+1·88	+ 16
31. Madras, South-east	9·1	9·1	6·47	7·40	—0·93	— 13
32. Do., Deccan	5·3	5·8	2·93	4·13	—1·20	— 29
33. Do., Coast, North	7·5	6·8	7·87	6·59	+1·28	+ 19

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	6·69	6·60	+0·09	+1
Assam	4·64	5·35	—0·71	—13
Bengal	6·71	4·78	+1·93	+40
Bihar and Orissa	0·85	2·72	—1·87	—69
United Provinces	0·10	1·34	—1·24	—93
Punjab	0·02	0·24	—0·22	—92
North-West Frontier Province	0·09	0·39	—0·30	—77
Sind	0	0·02	—0·02	—100
Rajputana	0	0·36	—0·36	—100
Bombay	1·24	2·39	—1·15	—48
Central India	0	0·73	—0·73	—100
Central Provinces	0·03	1·60	—1·57	—98
Hyderabad	0·69	2·56	—1·87	—73
Mysore	3·86	5·44	—1·58	—29
Madras	7·95	7·79	+1.06	+2
Mean of India	2·60	3·17	—0·57	—18

Snowfall.

I.—BALUCHISTAN.

14. *Quetta.*—No snow fell in the district during the month.

II.—THE NORTH-WEST FRONTIER PROVINCE.

Drosh.—There were four falls of snow on the high ranges of the surrounding hills which were from 10,000 to 15,000 feet in height. Snow began to disappear from the southern hills but there were 2 to 3 feet of snow lying on the northern hills.

III.—KASHMIR.

(*a*) *Gulmarg.*—No snow fell till the 5th; the report is dated the 5th.

(*b*) *Srinagar.*—There was a fresh snowfall on the surrounding mountains on the 15th.

(*c*) *Skardu.*—Snow fell on the high mountains round Skardu on the 1st, 15th and 16th. Two feet of snow are reported to be lying in the Deosai plain, and the route from Srinagar to Skardu was closed for traffic at the end of the month.

(*d*) *Dras* had about a foot of snow.

(*e*) *Kargil.*—Snow fell on the 8th, 14th and 15th at heights of 15,000 feet to a total depth of one foot.

(*f*) *Ladakh.*—Weather was fine.

IV.—THE PUNJAB.

(*a*) *Kulu* (*Kangra.*)—Weather was fine.

(*b*) *Kilba* (*Simla Hills*).—The autumn months were exceptionally dry.

V.—THE UNITED PROVINCES.

Almora.—

TABLE 18.

Actual falls.

Locality.	Depth of snow.	Distance from perpetual snow line at which snow fell.
	Feet.	
Malla Danpur	1½	¼ mile.
Chaudas	2½	¼ "
Panchachuli peak	3	
Mandap "	2	
Dave "	3	
Chipla "	1½	

TABLE 19.

ACCUMULATIONS.

Name of pass or peak.	Depth of Accumulation at the end of the month.	
	Reported.	Normal.
	Feet.	Feet.
Malla Darma	7	...
Pindari peak	1½	2¾
Kaphini peak	1½	3
Binkaru „	6	11
Puwalidwar	1½	...

VI.—THE EASTERN HIMALAYAS.

Yatung and Gangtok.—No snow fell during the month.

Sadiya Frontier Tract.—There was heavy snow, but the month's total fall was not abnormal.

Summary.

15. The total fall of the month was below the average over the greater part of the 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 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·900	29·786	·114	29·839	—·001	29·807	87·8	75·6	12·2	93·2	71·3	21·9	84·3	85·0	81·2	+1·2	73·7	78·1	76·8	76·2
	VI.—Punjab.																					
11	Lahore	702	29·172	29·081	·091	29·116	—·033	29·777	96·2	63·5	32·7	101·7	57·3	44·4	83·7	95·3	78·4	+2·7	58·2	67·2	71·1	65·5
	IX.—Rajputana.																					
18	Jaipur	1,431	28·506	28·404	·102	28·449	—·010	29·792	95·1	64·8	33·3	104·0	58·2	45·8	89·5	96·4	80·1	+2·2	55·6	65·8	66·3	62·6
	X.—Bombay.																					
25	Bombay	37	29·906	29·794	·112	29·847	0	29·824	90·0	78·5	11·5	94·0	74·0	20·0	83·9	86·4	83·0	+2·3	72·6	77·3	78·5	76·1
	XIV—Mysore.																					
29	Bangalore	3,021	26·971	26·860	·111	26·916	+·009	29·758	83·9	65·9	17·0	87·4	61·1	26·3	76·9	79·0	72·9	+1·1	64·5	69·1	68·5	67·4
	XV.—Madras.																					
30	Trivandrum	198	29·747	29·638	·109	29·698	+·003	29·825	82·7	74·8	7·9	86·4	73·2	13·2	80·1	80·9	77·4	—0·3	73·6	76·2	76·8	75·5
31	Pudukkottai	318	29·614	29·482	·132	29·548		29·794	90·7	75·1	15·6	96·8	71·1	25·7	83·9	87·0	82·9			75·8	75·9	
	Madras	22	29·895	29·773	·122	29·839	—·006	29·792	89·5	76·5	13·0	97·8	73·4	24·4	84·5	85·2	81·7	+0·9	74·5	77·7	77·8	76·7
	Kashmir.																					
13	Srinagar	5,204	24·993	24·888	·105	24·941	+·006	24·912	71·5	39·8	31·7	77·4	34·3	43·1	59·8	68·4	55·7	+2·5	38·6	48·5	57·5	49·4
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·723	25·643	·080	25·680	+·043	25·634	81·5	55·8	25·7	85·5	49·6	35·9	70·5	76·6	67·3	+0·4	53·6	63·4	66·5	61·2
	Kodaikanal	7,688	22·850	22·779	·071	22·815		22·749	64·3	51·2	13·1	69·0	48·1	20·9	60·9	58·8	57·7		49·6	55·8	56·0	53·6
	Extra India.																					
	Seychelles	15																				
	Mauritius	181				29·947	0	30·016	79·9	64·9	15·0	84·2	60·8	23·4			71·8	—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 3,200 feet.

A.

at 12 stations in India, etc., in October, 1920.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind direction.											Wind-shadiness.		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.	
·807	·880	·813	·853	+·037	91	75	68	81	−1	4·6	5·3	4·9	+0·3	6	7	7	11	7	10	6	1	7	S 78° E	N 18° W	18	11	45	49	5·73	1·67	Calcutta.	5
																															VI.—Punjab.	
·418	·447	·437	·441	−·004	71	39	26	49	−3	0	0	0	−0·6	30	0	4	2	10	3	0	2	11	N 76° E	N 9° W	3	11	20	28	0	0	Lahore.	11
																															IX.—Rajputana.	
·332	·345	·275	·322	−·080	54	24	16	35	−11	0	0·7	0·3	−1·4	12	3	3	2	0	2	12	19	9	N 89° W	N 27° W	48	38	40	54		0	Jaipur.	18
																															X.—Bombay.	
·725	·849	·866	·826	−·026	74	73	69	74	−7	3·8	3·3	3·5	+0·4	0	1	7	10	6	2	2	12	23	N 36° W	N 9° E	31	32	120	159	0·34	0·33	Bombay.	25
																															XIV.—Mysore.	
·592	·618	·576	·609	+·001	92	68	61	77	−1	6·6	7·6	7·1		7	3	18	12	1	0	2	9	10	N 21° E	N	35	8	104	82	2·58	0·92	Bangalore.	29
																															XV.—Madras.	
·810	·852	·868	·843	+·057	94	83	83	90	+5	7·8	8·5	8·1	+1·2	5	1	0	1	1	1	11	24	18	N 84° W	N 69° W	69	78	91	88	9·28	1·30	Trivandrum.	30
	·780	·742				67	59			5·5	7·0	6·3		31	1	4	6	0	4	5	8	3	S 72° W		8		65		3·17	1·53	Pudukkottai.	31
·828	·855	·854	·861	+·005	91	74	72	81	−2	7·1	5·5	6·3	+0·3	3	13	12	3	8	7	9	2	5	N 41° E	N 54° E	13	20	53	84	21·05	5·30	Madras.	
																															Kashmir.	
·227	·295	·351	·291	−·011	92	58	51	67	−12	1·2	3·5	2·3	−0·4	26	5	3	1	8	2	1	6	10	N 41° W	N 23° E	13	18	33	53	0·63	0·46	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·386	·505	·537	·474	−·002	87	67	59	72	−3	3·5	4·8	4·1	+0·1	0	0	0	29	0	2	0	31	0	S 45° W	S 86° W	6	34	8	12	0·19	0·19	Katmandu.	
·339	·395	·421	·385		90	75	85	83		6·6	8·6	7·6		2	19	8	6	4	6	1	7	9	N 1° E		34		180		5·24	0·97	Kodaikanal.	
																															Extra India.	
																								S 39° E		51		139			Seychelles.	
			·561	+·006				71	+1	[illegible]		5·2	+0·2										S 68° E	S [illegible]° E			178	194	1·87	0·97	Mauritius.	

† Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in October, 1920.

(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 2,500 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	+·018	87·4	—0·3	73·4	—0·4	80·4	—0·3	14·0	0	+ 1	87	— 1	·831	—·026	6·0	+0·6	6·69	6·60	+0·09
Assam	+ 025	86·3	—0·3	70·9	+0·4	78·6	0	15·3	+0·2	+18	90	0	·789	—·003	5·0	+0·2	4·64	5·35	—0·71
Bengal	+·010	87·6	+0·1	74·4	+0·7	81·0	+0·4	13·2	—0·4	— 6	86	+ 1	·858	+·013	3·6	+0·1	6·71	4·78	+1·93
Bihar and Orissa	+·008	90·3	+2·0	72·2	+0·9	81·3	+1·5	18·1	—0·4	+ 2	78	— 2	·767	+·024	2·7	0	0·85	2·72	—1·87
United Provinces of Agra and Oudh	+·006	95·5	+4·4	67·7	+1·2	81·6	+2·8	27·8	—0·3	+ 7	63	— 7	·587	—·013	0·2	—1·0	0·10	1·34	—1·24
Punjab	—·015	96·2	+2·8	64·5	+2·0	80·3	+2·4	31·7	+0·3	+ 6	52	— 6	·432	—·016	0·3	—0·3	0·02	0·24	—0·22
North-West Frontier Province	—·021	94·5	+3·5	61·9	+2·4	78·3	+3·0	32·7	—0·7	— 4	63	+ 8	·443	+·022	0·5	—0·3	0·09	0·39	—0·30
Sind	—·009	95·7	+1·2	69·7	+1·0	82·7	+1·1	26·0	—1·1	+16	60	— 2	·573	—·011	0·4	—0·4	0	0·02	—0·02
Rajputana	—·010	98·8	+3·9	68·4	+0·8	83·6	+2·4	30·4	0	— 4	40	— 9	·387	—·064	0·2	—0·8	0	0·36	—0·36
Bombay	+·001	93·3	+2·5	71·6	+1·2	82·5	+1·9	21·7	—0·9	+ 1	67	— 2	·668	—·014	3·3	+0·4	1·24	2·39	—1·15
Central India	—·004	93·7	+4·3	64·4	—0·2	79·0	+2·0	29·2	—1·0	— 7	50	—13	·473	—·065	0·5	—1·3	0	0·73	—0·73
Central Provinces	0	93·6	+5·3	67·6	+1·4	80·6	+3·3	26·0	+0·1	+ 4	54	—14	·503	—·061	2·4	+0·1	0·03	1·60	—1·57
Hyderabad	+·007	94·2	+4·6	72·1	+2·8	83·1	+3·7	22·2	—0·3	+ 8	59	— 9	·602	—·038	4·4	+0·6	0·69	2·56	—1·87
Mysore	+·001	84·3	+1·1	66·9	+0·9	75·6	+1·0	17·5	+0·4	— 1	79	— 2	·637	—·002	5·5	—0·9	3·86	5·44	—1·58
Madras	0	88·9	+0·1	75·2	+0·8	82·0	+0·5	13·8	+0·4	— 1	82	+ 2	·833	+·020	5·5	+0·3	7·95	7·79	+0·16

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·802		29·880	29·960	24th	29·694	1st	78·4	75·5	83·5		74·3		78·9		9·2	90·2	31st	71·8	31st
	Mergui	66	29·885	+·010	29·881	29·961	24th	29·751	1st	78·0	75·3	85·6	−1·3	73·7	+1·0	79·7	−0·1	11·9	89·0	8th	72·4	19th
	Tavoy	19	29·930	+·004	29·880	30·003	25th	29·781	1st	78·4	75·3	86·7	−1·0	73·9	+0·2	80·3	−0·4	12·8	90·5	28th	67·9	22nd
	Moulmein	77	29·884	+·022	29·890	29·966	25th	29·734	1st	76·2	75·3	86·0	−1·9	74·1	−0·8	80·0	−1·3	11·9	89·9	28th	70·9	22nd
	Rangoon	18	29·937	+·026	29·892	30·046	24th	29·773	1st	78·9	76·3	87·6	+0·3	75·7	−0·1	81·7	+0·1	12·1	92·9	3rd	72·5	31st
	Bassein	27	29·925	+·024	29·892	30·059	24th	29·760	1st	80·2	77·4	88·4	+1·1	74·5	−1·1	81·5	0	13·9	91·2	27th & 28th.	70·9	31st
	Diamond Island	41	29·889	+·010	29·864	30·002	25th	29·730	1st	82·8	78·3	86·7	+0·5	77·7	+0·6	82·2	+0·5	9·0	89·4	7th & 27th.	73·4	31st
	Toungoo	164	29·792	+·025	29·894	29·914	25th	29·614	1st	78·8	76·8	88·6	−1·3	71·7	−2·9?	80·0	−2·1?	16·9	81·4	3rd	65·0	24th
	Kyaukpyu	18	29·902		29·860	30·058	25th	29·743	1st	80·0	76·5	85·8		76·4		81·1		9·4	88·3	1st & 23rd.	73·3	13th
	Akyab	20	29·891	−·005	29·851	30·045	25th	29·740	1st	78·4	76·5	86·2	−1·3	74·9	−1·7	80·6	−1·5	11·3	90·6	4th	71·9	30th
3	Minbu	*165*	29·763	+·004	29·872	29·929	25th	29·601	1st	78·6	75·4	88·6	−1·9	74·8	−0·4	81·7	−1·1	13·8	92·5	3rd	69·9	27th
	Yamethin	644	29·292	+·015	29·889	29·436	25th	29·128	1st	78·2	74·4	90·4	−0·6	73·0	−1·0	81·7	−0·8	17·4	93·3	29th	66·4	25th
	Mandalay	250	29·693	+·023	29·892	29·852	25th	29·504	1st	80·9	75·6	93·4	+1·6	74·6	−0·2	84·0	+0·7	18·8	96·9	2nd	62·0	31st
	Monywa	*280*	29·674	+·034	29·905	29·837	24th	29·485	1st	79·6	76·0	91·2	+0·9	75·1	−0·3	83·2	+0·3	16·1	95·1	3rd	67·9	31st
	Lashio	*2,820*	27·185	+·020	27·131	27·360	25th	27·021	1st	68·6	66·8	81·4	−1·5	63·5	−0·3	72·5	−0·9	17·9	86·1	2nd	52·2	26th
	Bhamo	*361*	29·568	+·021	29·888	29·757	25th	29·384	1st	73·8	72·4	88·4	+0·6	69·7	−0·1	79·1	+0·3	18·7	94·5	7th	61·2	25th
	Myitkyina	463	29·473	+·038	29·901	29·665	25th	29·289	1st	73·9	71·4	86·7	+0·5	69·7	−0·9	78·2	−0·2	17·0	91·6	4th	61·6	31st
	II.—Assam.																					
4	Dibrugarh	353	29·590	+·015	29·910	29·769	25th	29·395	1st	74·8	72·4	85·1	+0·6	70·0	+0·5	77·5	+0·5	15·1	90·3	4th	62·5	30th
	Sibsagar	333	29·614	−·001?	29·912	29·809	25th	29·415	1st	73·0	71·9	83·8	−1·1	71·2	+0·6	77·2	−0·3	12·1	89·4	4th	62·4	30th
	Tezpur	252	29·713	+·038	29·928	29·898	25th	29·504	1st	74·6	72·2	86·3	+0·2	70·9	−0·2	78·6	0	15·4	91·8	4th	63·8	30th
	Gauhati	196	29·763	+·023	29·921	29·961	25th	29·559	12th	76·0	73·6	87·6	+0·3	73·0	+1·5	79·6	+0·9	15·6	92·2	10th	64·2	30th
	Dhubri	115	29·826	+·016	29·897	30·013	25th	29·609	1st	76·0	73·6	83·4	−1·5	73·3	+0·6	78·4	−0·5	10·1	87·7	5th	69·6	31st
	Silchar	104	29·859	+·031	29·917	30·022	25th	29·674	1st	77·9	75·1	88·3	−0·4	71·6	−0·7	79·9	−0·5	16·7	92·2	6th	65·4	30th
	Srimangal	66	29·877		29·893	30·042	25th	29·699	1st	75·7	74·0	90·0	+0·8	67·6	−3·0?	78·8	−1·1?	22·4	94·5	3rd	60·3	31st
	III.—Bengal.																					
5	Cox's Bazar	36	29·884		29·865	30·046	25th	29·723	1st	80·1	77·1	87·2		73·6		80·4		13·6	90·3	30th	67·7	30th
	Chittagong	87	29·837	+·011	29·870	29·997	24th	29·680	1st	77·3	75·9	87·0	+0·4	73·1	−0·2	80·0	+0·1	13·9	91·7	24th	66·5	30th
	Noakhali	43	29·895	+·028	29·885	30·059	24th	29·719	1st	78·9	76·7	86·6	+0·4	74·5	+1·0	80·5	+0·7	12·1	90·8	4th	69·4	30th
	Barisal	12	29·904	+·011	29·863	30·076	25th	29·719	1st	80·9	77·6	87·0	−0·6	74·7	+0·1	80·9	−0·3	12·3	91·1	4th	70·4	31st
	Narayanganj	26	29·902	+·014	29·877	30·070	25th	29·713	1st	80·7	76·5	87·4	−0·5	75·6	+0·3	81·4	−0·1	11·8	91·1	4th	70·8	30th

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

B.

stations in India, etc., in October, 1920—*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 1920.	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.
11	2	4	6	4	3	1	0	0	S 81° E		3·5			37		87		·839		7·4		17	0	15·43	16·87	−3·44	128·97	156·83	−27·86	3·40	Victoria Point.
11	3	4	4	5	1	0	0	0	N 83° E*	N 5° E	3·3†	1·1	+2·2	10	− 8	88	− 1	·846	− ·022	4·5	−0·1	16	−0·4	10·13	12·18	−2·05	128·26	147·30	−19·08	2·35	Mergui.
23	0	1	3	1	2	0	0	1	S 70° E	N 9° E	1·4	0·8	+0·6	13	+10	86	− 3	·834	− ·033	7·1	+3·5?	12	−0·7	6·56	10·54	−3·98	225·99	206·93	+19·06	1·45	Tavoy.
5	0	7	10	6	1	2	0	0	S 84° E	S 85° E	2·2	1·6	+0·6	59	+27	87	− 1	·838	− ·040	5·5	+0·5	11	−0·2	12·76	8·62	+4·14	208·35	182·68	+25·67	3·72	Moulmein.
3	6	8	4	3	4	1	1	1	N 59° E	S 53° E	2·6	2·1	+0·5	33	+11	89	− 1	·874	− ·029	7·6	+1·8	8	−2·0	5·81	6·99	−1·18	89·91	93·69	− 3·78	2·22	Rangoon.
12	0	4	4	4	1	1	3	2	S 87° E	N 80° E	1·8	2·4	−0·6	15	− 3	88	− 5	·905	− ·016	5·9	+1·1	11	−1·4	12·24	8·20	+4·04	161·98	104·01	− 2·08	2·93	Bassein.
0	0	12	8	3	2	1	3	2	N 69° E	N 53° E	6·2	5·5	+0·7	46	+14	82	− 1	·909	0	7·4	+1·9	12	+1·2	15·54	8·35	+7·19	119·23	110·40	+ 8·83	6·72	Diamond Island.
13	4	3	0	6	2	1	0	2	N 81° E	N 84° E	1·2	1·3	−0·1	13	− 5	91	+ 2	·887	− ·005	6·6	+1·0	14	+3·8	8·75	7·42	+1·33	67·21	78·28	−11·07	2·00	Toungoo.
29	0	0	1	0	1	0	0	0	S 45° E		0·3			3		85		·867		5·2		11	−0·4	6·19	8·91	−2·72	163·09	167·27	− 4·18	1·13	Kyaukpyu.
10	2	8	4	5	2	0	0	0	N 81° E	N 50° E	1·6	1·8	−0·2	43	−22	91	0	·880	− ·034	7·3	+2·0	11	+1·8	16·18	10·61	+5·57	223·29	188·88	+34·41	2·81	Akyab.
3	1	0	0	11	2	3	1	10	S 33° W	S 10° W	1·8	4·7	−2·9	17	+ 6	86	+ 2	·838	− ·013	5·3	+0·6	6	−0·5	4·25	4·60	−0·35	37·34	31·35	+ 5·99	2·00	Minbu.
																83	− 4	·800	− ·053	4·6	−0·6	4	−4·1	3·28	5·89	−2·61	22·08	33·65	−11·57	1·30	Yamethin.
27	0	0	0	1	3	0	0	0	S 11° E	S	2·4	2·3	+0·1	13	−12	77	− 6	·813	− ·042	4·1	+0·2	5	−1·4	2·28	4·74	−2·46	27·71	29·87	−2·16	0·93	Mandalay.
14	8	1	0	3	3	0	1	1	N 14° E		1·1			13		84	− 5	·850	− ·040	6·2	+0·8	5	−1·2	2·78	4·40	−1·62	17·26	28·74	−11·48	0·90	Monywa.
30	1	0	0	0	0	0	0	0	N		1·6			3		91	− 2	·632	− ·025	6·0	−1·5	10	+0·2	6·04	5·69	+0·35	41·24	55·42	−14·18	2·45	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 4° W	0·2	1·4	−1·2			93	+ 4	·779	0	7·7	+3·0	10	+3·7	4·66	4·31	+0·35	57·43	67·04	−9·61	1·25	Bhamo.
25	2	4	0	0	0	0	0	0	N 31° E		1·2			20		88	− 1	·733	− ·041	4·2	−2·0	6	−2·4	2·87	7·42	−4·55	79·17	73·17	+6·00	0·87	Myitkyina.
																															II.—Assam.
27	0	3	1	0	0	0	0	0	N 58° E		0			10		89	0	·766	+ ·033	5·4	+0·6	7	−1·3	2·82	5·76	−2·94	75·83	88·21	−12·38	0·70	Dibrugarh.
21	3	5	1	1	0	0	0	0	N 42° E	N 86° E	0·7	1·4	−0·7	27	+ 2	95	− 1	·771	− ·025	8·8	+1·7	8	+0·4	4·95	5·12	−0·17	64·11	76·49	−12·38	1·28	Sibsagar.
11	0	11	9	0	0	0	0	0	N 65° E		1·5			62		89	0	·763	0	3·5	−0·9	5	−1·0	5·33	3·99	+1·34	53·22	60·27	− 7·05	2·46	Tezpur.
27	0	0	4	0	0	0	0	0	E		1·3			13		89	0	·795	+ ·003	7·1	+1·5	5	+1·4	1·93	2·53	−0·60	44·73	54·39	− 9·66	0·67	Gauhati.
2	0	11	16	0	2	0	0	0	N 76° E	N 67° E	4·4	2·8	+1·6	82	+39	89	+ 1	·794	− ·003	3·5	−0·1	8	+3·7	8·05	3·95	+4·10	129·22	87·12	+42·10	2·98	Dhubri.
26	0	1	4	0	0	0	0	0	N 81° E	N 63° E	1·0	1·2	−0·2	17	+13	86	− 3	·818	− ·011	3·9	−1·5	7	−0·6	4·31	6·57	−2·26	79·58	98·74	−19·16	1·32	Silchar.
																92	+ 6	·818	− ·020	2·5		8	−0·5	5·60	6·92	−1·23	83·66	83·44	+ 0·22	1·97	Srimangal.
																															III.—Bengal.
25	0	0	2	3	0	1	0	0	S 50° E		1·3			13		87		·891		3·6		8	−0·6	6·03	8·23	−2·20	128·21	123·19	+ 5·02	1·60	Cox's Bazar.
16	0	7	4	2	2	0	0	0	N 82° E	N 67° E	1·5	2·0	−0·5	33	−14	93	+ 4	·877	+ ·015	3·5	−1·0	8	+1·0	6·34	6·90	−0·56	79·84	89·79	− 9·95	2·24	Chittagong.
10	3	12	1	6	1	0	0	0	N 65° E		1·5			45		90	+ 2	·887	+ ·012	3·9	+1·1	9	+1·6	11·72	8·31	+3·41	119·99	106·51	+ 5·48	3·68	Noakhali.
7	2	8	4	5	2	2	3	3	S 77° E	N 26° E	1·4	1·5	−0·1	10	− 1	86	+ 2	·895	+ ·005	4·0	+0·7	8	+1·5	11·29	5·97	+5·32	79·31	71·43	+ 7·88	4·03	Barisal.
12	1	1	4	3	3	1	1	5	S 67° E	N 50° E	1·1	2·0	−0·9	7	− 4	82	− 3	·854	− ·017	4·0	−0·3	5	−0·6	3·27	4·64	+3·43	77·12	61·63	+15·49	2·65	Narayanganj.

* 28 days' wind observations.
† Mean of 28 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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
	III.—Bengal—*concld.*																					
	Mymensingh	63	29·868	+·016	29·883	30·039	25th	29·670	1st	78·8	75·7	86·9	+0·2	74·5	+0·9	80·7	+0·5	12·4	90·9	5th	68·8	30th
	Bogra	75	29·852	+·012	29·879	30·040	25th	29·646	1st	78·5	76·0	86·6	−0·7	73·5	+0·7	80·0	0	13·1	92·4	5th	67·8	28th
	Dinajpur	123	29·793	+·004	29·872	29·974	25th	29·582	1st	77·3	74·6	86·4	−1·1	73·3	+1·6	79·8	+0·3	13·1	92·3	5th	68·0	29th & 31st.
	Jalpaiguri	283	29·653	+·018	29·899	29·834	25th	29·452	1st	74·2	71·7	86·7	+0·3	70·8	+0·7	78·7	+0·5	15·9	91·2	4th	60·9	30th
	Saugor Island	10	29·899	+·007	29·854	30·091	25th	29·717	10th	82·4	78·0	87·7	+0·6	77·7	+1·5	82·7	+1·1	10·0	91·1	1st	72·5	10th
	Midnapore	149	29·756*	0	29·854*	29·962	25th	29·579	1st	80·3	75·8	89·3	−0·1	75·2	+2·0	82·2	+0·9	14·1	94·4	2nd	68·5	24th
	Calcutta	21	29·889	0	29·857	30·076	25th	29·697	1st	79·3	77·0	88·0	+0·8	75·7	+1·4	81·9	+1·1	12·3	93·2	2nd	71·3	31st
	Jessore	30	29·890	+·011	29·867	30·071	25th	29·690	11th	80·3	76·5	89·3	+0·9	73·9	−0·4	81·6	+0·3	15·4	93·4	5th	68·8	30th
	Burdwan	99	29·806	−·009	29·853	30·004	25th	29·597	1st	79·1	75·4	89·1	+0·1	74·8	+0·3	81·9	+0·2	14·3	93·8	3rd	70·2	13th
	Berhampore	67	29·861	+·017	29·878	30·062	25th	29·643	1st	79·6	75·9	88·3	+0·5	74·8	+0·5	81·6	+0·5	13·5	93·6	2nd & 3rd.	70·2	31st
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·657	+·002	29·852	30·042	25th	29·666	1st	78·8	75·7	89·9	+1·5	74·3	+1·1	82·1	+1·3	15·6	94·5	2nd	66·6	24th
	Hukitala (False Point)	29	29·878	0	29·848	30·071	25th	29·687	9th													
	Cuttack	80	29·833	+·006	29·854	30·021	25th	29·657	1st	79·5	76·8	90·1	0	75·3	+0·7	82·7	+0·3	14·8	94·6	1st	69·4	24th
	Puri	24	29·898	+·015	29·863	30·080	25th	29·735	1st	82·0	77·9	88·8	−0·2	78·8	+2·0	83·7	+0·9	10·0	94·0	2nd	75·0	9th
	Angul	455	29·451	+·006	29·816	29·639	25th	29·294	1st	78·0	73·9	90·2	+1·1	72·4	+1·5	81·3	+1·3	17·8	94·8	2nd	64·2	24th
	Sambalpur	486	29·421	−·010	29·859	29·607	25th	29·258	1st	79·1	73·7	92·0	+3·2	70·8	−0·8	81·4	+1·2	21·2	97·3	17th	62·7	23rd
7	Chaibasa	733	29·104	−·001	29·856	29·353	24th	28·977	1st	77·2	72·2	91·8	+3·4	70·9	+1·0	81·4	+2·2	20·9	96·9	2nd	63·8	23rd
	Ranchi	2,133	27·788	+·010	29·846?	27·946	25th	27·601	1st	75·6	67·2	86·3	+3·0	66·9	+0·6	76·6	+1·8	19·4	90·9	14th	61·5	23rd & 31st.
	Purulia	816	29·110	+·026?	29·882	29·290	25th	28·886	1st	78·4	71·6	92·9	+3·9	71·9	+1·7	82·4	+2·8	21·0	98·1	3rd	67·1	22nd
	Daltonganj	750	29·190	+·012	29·890	29·372	24th	28·975	1st	71·5	67·0	92·6	+3·2	65·6	0	79·1	+1·6	27·0	97·1	3rd	52·6	30th
8	Purnea	124	29·804	+·013	29·884	29·996	25th	29·588	1st	78·5	75·0	88·5	+0·9	71·6	+0·5	80·1	+0·7	16·9	92·8	5th	65·3	30th
	Monghyr	155	29·753		29·861	29·931	25th	29·514	1st	80·0	75·0	90·7		73·4		82·0		17·3	94·2	1st & 2nd.	68·4	28th
	Darbhanga	165	29·766	+·023	29·887	29·956	25th	29·536	1st	79·6	75·3	89·5	+2·4	72·8	+0·1	81·1	+1·3	16·7	93·0	1st	64·9	27th
	Pusa	188	29·729		29·874	29·912	25th	29·493	1st	78·8	75·5	90·6		72·2		81·4		18·4	95·0	1st	65·9	21st
	Patna	183	29·738	+·015	29·877	29·921	25th	29·495	1st	82·4	75·1	91·0	+2·5	74·9	+2·4	83·0	+2·5	16·1	94·2	3rd	69·6	28th
	Buxar	239	29·665	+·004	29·863	29·862	25th	29·423	1st	77·7	72·7	89·1	−1·0?	72·0	+1·4	80·6	+0·2?	17·1	93·3	1st	65·6	21st & 31st.
	Gaya	372	29·551	+·018	29·880	29·736	25th	29·313	1st	80·1	71·6	91·8	+1·9	72·2	+1·2	82·0	+1·5	19·6	96·7	2nd	65·1	31st
	Naya Dumka	489	29·428	+·014	29·872	29·628	25th	29·214	1st	80·2	75·1	89·7	+1·7	71·8	+1·1	80·8	+1·4	17·9	95·4	3rd	66·0	22nd
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·667	+·026	29·885	29·857	25th	29·432	1st	77·8	73·5	90·9	+2·2	70·4	+0·8	80·6	+1·5	20·5	94·6	1st	60·8	23rd
	Benares	267	29·643	+·007	29·866	29·844	24th	29·414	1st	80·7	71·5	94·5	+4·2	67·3	−0·4	80·9	+1·9	27·2	100·0	2nd	58·7	31st
	Allahabad	309	29·614	+·019	29·882	29·811	24th	29·361	1st	78·8	69·2	96·8	+6·0	67·7	+0·4	82·3	+3·2	29·1	101·6	1st & 3rd.	59·6	31st
	Cawnpore	416	29·495	+·013	29·873	29·691	25th	29·262	1st	76·5	68·0	96·6	+6·1	68·7	+1·8	82·6	+3·9	27·9	102·6	1st	61·7	23rd & 30th.

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

* Mean of 30 days.

B—*continued.*

stations in India, etc., in October, 1920—*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 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 October 1920.	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.*
30	1	0	0	0	0	0	0	0	N	S 85° E	0·3	1·2	−0·9	3	−34	86	− 1	·847	−·006	3·9	−0·5	9	+3·6	6·19	5·24	+0·95	63·95	83·44	−16·49	1·60	Mymensingh.
13	2	2	11	1	0	1	1	0	N 80° E	N 86° E	1·3	1·2	+0·1	37	+21	89	+ 5	·868	+·039	4·3	+1·9	7	+2·1	10·50	4·39	+6·11	65·40	64·57	+0·83	4·14	Bogra.
6	1	9	11	2	1	0	1	0	N 74° E	N 53° E	1·7	1·8	−0·1	59	+37	88	+ 3	·826	+·017	3·3	+0·2	5	+1·1	9·26	3·31	+5·95	67·40	65·47	+1·93	6·80	Dinajpur.
25	0	0	2	0	1	0	0	3	N 6° W	N 51° E	1·5			4	−30	88	+ 1	·745	−·024	0·8	−2·0	7	+2·4	2·98	4·67	−1·69	122·55	114·49	+8·06	0·65	Jalpaiguri.
4	4	8	2	1	5	5	0	2	N 61° E	N 14° W	4·0	3·9	+0·1	10	−12	81	− 4	·899	+·008	4·3	−0·7	5	−2·4	15·56	7·54	+8·02	50·78	63·74	−12·96	6·46	Saugor Island.
18	4	3	0	2	3	0	0	1	N 56° E		2·0*			10		81	+ 2	·833	+·049	3·5	+1·1	5	−0·2	6·67	3·31	+3·36	57·45	52·17	+5·28	3·90	Midnapore.
6	3	5	3	3	2	5	1	3	N 63° E	N 58° W	1·9	2·0	−0·1	7	−12	89	+ 5	·895	+·040	4·2	+0·7	4	−1·9	5·73	3·88	+1·85	55·96	56·24	−0·28	1·67	Calcutta.
29	0	0	1	1	0	0	0	0	S 66° E	S 67° E	0·6	1·5	−0·9	7	−15	84	− 1	·867	−·009	2·9	−0·6	10	+4·5	8·61	4·63	+3·98	48·32	57·52	−9·20	3·41	Jessore.
25	1	2	2	0	1	0	0	0	N 67° E	N 28° W	0·6	1·4	−0·8	10	− 4	84	+ 3	·833	+·024	4·3	+0·6	4	−0·1	5·10	2·97	+2·13	41·99	51·65	−9·66	1·80	Burdwan.
12	1	3	4	2	4	2	2	1	S 48° E	S 39° W	1·1	1·5	−0·4	13	+ 8	84	− 1	·847	+·014	3·8	+0·2	4	−0·4	5·52	3·55	+1·97	53·35	51·52	+1·83	4·10	Berhampore.
																															IV.—Bihar and Orissa.
10	6	2	0	0	4	4	0	5	N 50° W	N 41° W	1·3	1·9	−0·6	23	−13	86	+ 3	·849	+·034	4·0	+1·0	3	−2·6	4·04	5·31	−1·27	48·33	54·44	−6·11	2·10	Balasore.
4	10	5	2	1	0	4	2	3	N 3° W		4·5			40	− 7					7·5	+2·8	4	−3·1	4·79	7·83	−3·04	58·20	55·77	+2·43	2·08	Hukitala (False Point).
28	0	1	0	0	0	0	2	0	N 60° W	N 51° W	0·7	1·3	−0·6	3	−15	88	+ 8?	·876	+·080	4·4	+0·7	4	−1·8	1·58	4·97	−3·39	47·95	54·30	−6·35	0·62	Cuttack.
6	10	9	1	0	1	2	2	0	N 16° E		5·4			48		83	+ 2	·900	+·048	3·6	+0·4	7	+0·1	5·88	6·61	−0·73	49·24	47·98	+1·26	2·75	Puri.
11	3	1	1	0	0	2	4	10	N 54° W		2·6			45		81	+ 2	·785	+·045	4·1	+1·2	4	−0·7	1·59	3·51	−1·92	47·57	40·98	+6·59	0·73	Angul.
0	7	14	1	1	0	3	0	5	N 19° E	N 33° E	1·5	2·1	−0·6	59	+ 2	76	− 1	·761	+·020	3·0	+0·1	0	−3·3	0·02	1·77	−1·75	70·72	60·88	+9·84	0·02	Sambalpur.
23	2	1	0	0	1	4	0	0	S 62° W	S 63° W	1·1	0·7	+0·4	7	−15	78	− 4	·727	+·011	2·4	−0·5	0	−3·8	0·08	2·78	−2·70	60·47	46·45	+14·02	0·08	Chaibassa.
12	2	3	0	0	0	7	5	2	N 86° W	N 89° W	1·9	3·3	−1·4	30	+ 9	66	− 4	·568	−·033	1·8	−1·3	2	−1·9	0·22	2·34	−2·12	58·99	50·82	+8·17	0·11	Ranchi.
22	1	1	0	1	0	1	4	1	N 76° W		0·7†			13		70	− 8	·689	−·010	2·5	+0·3	0	−3·5	0·08	2·76	−2·68	44·53	47·20	−2·67	0·08	Purulia.
25	0	0	2	3	0	0	0	0	S 63° E		1·6†			13		78	− 2	·607	−·034	0·7	−1·2	0	−2·9	0	1·53	−1·53	69·45	38·06	+31·39	0	Daltonganj.
2	0	10	10	7	0	2	0	0	N 88° E	N 79° E	1·3	1·5	−0·2	69	+54	85	− 3	·823	+·025	3·5	+1·2	4	+0·8	0·96	2·83	−1·87	41·74	58·5	−16·78	0·31	Purnea.
1	0	1	9	8	0	2	0	1	S 65° E		2·1			45		79		·807		2·1		1	−1·0	0·51	0·85	−0·34	40·53	46·34	−5·81	0·51	Monghyr.
27	0	0	4	0	0	0	0	0	E	S 68° E	1·3	1·5	−0·2	13	− 8	81	− 2	·821	+·031	2·7	+0·9	0	−2·8	0	2·52	−2·52	40·66	48·48	−7·82	0	Darbhanga.
7	0	4	13	6	0	0	1	0	S 87° E		1·1			61		85		·833		1·7		0	−2·5	0	1·36	−1·36	31·32	45·94	−14·62	0	Pusa.
13	0	0	13	1	0	3	1	0	S 75° E	S 8° W	2·1	1·6	+0·5	37	+15	70	− 4	·777	+·036	1·1	−1·1	0	−3·1	0	2·62	−2·62	30·47	45·46	−14·99	0	Patna.
6	0	1	8	8	2	3	2	1	S 48° E		1·3			39		77	+ 5	·739	+·059	1·2	−1·0	1	−1·7	0·43	2·75	−2·32	32·66	38·48	−5·82	0·43	Buxar.
4	1	2	5	2	3	11	1	2	S 16° W	S 9° W	1·3	2·0	−0·7	27	− 5	65	− 8	·669	−·019	0·6	−2·1	0	−2·7	0	1·97	−1·97	52·71	43·60	+9·11	0	Gaya.
23	1	0	1	0	0	0	0	0	N 45° E		0·8			3		78	0	·801	+·056	1·6	−0·8	1	−3·0	0·24	3·22	−2·98	57·76	52·43	+5·33	0·15	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
18	0	0	13	0	0	0	0	0	E	N 27° W	1·1	0·9	+0·2	42	+20	81	+ 4	·772	+·054	0·4	−1·2	0	−2·5	0	3·[illegible]1	−3·81	44·15	48·09	−3·94	0	Gorakhpur.
18	0	0	0	8	0	3	1	1	S 14° E	S 50° W	0·8	1·8	−1·0	23	+ 5	62	−12	·649	−·021	0·3	−1·6	0	−2·4	0	2·51	−2·51	37·50	37·71	−0·21	0	Benares.
21	0	0	1	2	0	2	5	0	S 55° W	N 86° W	1·0	2·3	−1·3	17	− 8	59	− 9	·587	−·038	0·8	−1·2	0	−1·9	0·08	2·46	−2·38	33·43	36·40	−2·97	0·08	Allahabad.
7	0	2	6	3	4	4	4	1	S 16° E	S 76° W	1·3	1·5	−0·2	23	− 6	64	−11	·579	+·011	0·2	−0·8	0	−1·4	0	1·25	−1·25	21·11	33·53	−12·42	0	Cawnpore.

* Mean of 30 days.
† „ „ 29 „

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	29·532	+·003	29·864	29·724	25th	29·308	1st	74·8	68·7	97·9	+6·6	64·3	—1·3?	81·0	+2·7?	33·5	103·5	1st	56·5	31st
	Bahraich	407	29·495	+·011	29·869	29·683	25th	29·270	1st	76·0	71·1	93·0	+2·4	70·0	+2·1	81·5	+2·3	23·0	98·2	2nd	63·5	22nd
10	Jhansi	824	29·084	—·014	29·868	29·278	25th	28·876	1st	79·6	64·9	99·4	+6·3	68·4	—1·4	83·9	+2·5	31·0	104·4	3rd	60·6	29th
	Agra	556	29·340	—·009	29·856	29·539	24th	29·110	1st	82·4	66·8	99·0	+5·6	70·5	+2·5	84·7	+4·1	28·5	105·7	1st	54·5	29rd & 28th.
	Mainpuri	516	29·372	—·007	29·854	29·577	25th	29·139	1st	75·8	65·6	98·0	+5·1	66·4	+1·5	82·2	+3·3	31·6	102·3	1st & 3rd	59·7	23rd
	Bareilly	568	29·328	+·008	29·865	29·524	24th	29·078	1st	76·9	70·3	94·1	+4·8	68·8	+3·8	81·4	+4·2	25·3	99·7	2nd	59·5	28th
	Roorkee	899	29·002	+·012	29·885	29·194	24th	28·769	1st	73·1	65·0	90·6	+1·6	62·0	+1·0	76·3	+1·3	28·6	98·1	4th	53·8	26th
	VI.—Punjab.																					
11	Delhi	718	29·169	—·005	29·863	29·362	25th	28·946	1st	74·4	63·3	94·4	+2·6	70·3	+2·1	82·3	+2·3	24·1	102·0	1st	62·3	28rd
	Hissar	725	29·160	—·004	29·862	29·356	25th	28·959	1st	74·8	62·2	99·4	+3·4	65·6	+2·4	82·5	+2·9	33·8	104·7	7th	57·1	23rd
	Patiala	*818*	29·047	—·025	29·844	29·251	24th	28·803	1st	75·2	66·4	95·0	+3·5	63·6	+3·1	80·3	+3·3	29·4	99·4	3rd & 4th.	57·0	23rd
	Ambala	892	28·994	+·003	29·869	29·193	25th	28·735	1st	74·9	63·4	96·4	+4·2	64·9	+4·1	80·7	+4·1	31·5	102·1	4th	56·7	22nd
	Ludhiana	812	29·068	—·005	29·865	29·276	25th	28·829	1st	72·5	62·2	95·8	+4·0	66·2	+2·7	81·0	+3·3	29·6	100·3	1st	60·2	30th
	Lahore	702	29·154	—·023	29·846	29·375	25th	28·929	1st	70·5	62·0	96·4	+1·5	63·5	+3·2	80·0	+2·3	32·9	101·7	2nd	57·3	23rd
	Sialkot	830	29·068	—·016	29·859	29·252	24th	28·800	1st	72·3	62·5	93·3	+0·8	61·5	—1·0	77·4	—0·1	31·8	97·7	1st	54·5	27th & 28th.
	Rawalpindi	1,674	28·210	—·020	29·871	28·415	25th	28·909	1st	71·8	60·2	91·9	+3·2	59·5	+3·0	75·7	+3·1	32·4	96·7	14th	54·0	30th
12	Khushab	612	29·273	—·006	29·867	29·481	24th	29·046	15th	75·8	61·2	97·7	+3·3	63·0	—0·5	80·4	+1·5	34·7	103·2	4 days	55·2	21st
	Lyallpur	605	29·246		29·835	29·451	24th	29·018	15th	72·9	63·1	97·5		62·9		80·2		34·6	103·0	13th	56·6	21st
	Montgomery	558	29·295	—·032	29·832	29·503	25th	29·078	1st	74·6	63·2	97·3	+1·0	62·1	—0·9	79·7	+0·1	35·2	102·3	13th	57·7	17th
	Multan	426	29·426	—·023	29·825	29·626	26th	29·208	1st	74·7	63·7	98·8	+2·9	66·9	+3·8	83·9	+3·3	29·9	103·8	4th	63·3	21st
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·775	—·032	29·901	28·982	25th	28·584	12th	64·2	57·6	92·8	+4·6	59·1	+1·2	76·0	+2·9	33·7	98·4	5th	54·7	30th & 31st.
	Dera Ismail Khan	590	29·299	—·011	29·873	29·509	25th	29·063	1st	73·5	64·7	96·3	+2·5	64·7	+3·6	80·5	+3·1	31·6	102·4	13th	56·9	22nd
	VIII.—Sind.																					
16	Jacobabad	186	29·693	—·016	29·841	29·892	25th	29·463	1st	76·3	63·6	98·8	—0·4	65·8	+2·6	82·3	+1·1	33·0	105·9	13th	57·6	21st
	Hyderabad	96	29·734	—·025?	29·883?	29·984	25th	29·571	1st	77·9	67·2	101·3	+3·4	70·3	+0·2	85·8	+1·8	31·0	109·5	9th	64·0	28th
	Karachi	13	29·917	—·001	29·880	30·072	25th	29·729	1st	77·8	74·1	87·1	+0·5	73·1	+0·1	80·1	+0·3	14·0	100·4	3rd	68·5	16th
	IX.—Rajputana.																					
17	Bikaner	771	29·135	0	29·861	29·310	25th	28·910	1st	81·3	67·6	101·0	+4·9	71·4	0	86·2	+2·5	29·6	107·8	9th	63·9	29th
	Jodhpur	780	29·135	—·006	29·879	29·330	25th	28·945	1st	78·8	61·0	100·2	+3·9	68·1	+0·6	84·2	+1·9	32·1	107·9	9th	60·1	21st
18	Jaipur	1,481	28·491	—·007	29·883	28·665	24th	29·300	1st	78·0	62·9	99·3	+3·7	64·8	0	81·6	+1·9	33·5	104·0	9th	58·2	29th
	Ajmer	1,611	28·308	—·001	29·895	28·470	25th	29·122	1st	69·0	58·3	98·6	+3·7	66·1	+1·9	80·9	+2·8	29·5	101·6	9th	55·8	26th & 28th.
	Kotah	862	29·071	—·015	29·858	29·245	25th	28·887	1st	83·1	64·7	99·0	+4·0	71·7	+1·4	85·3	+2·7	27·3	104·0	10th	63·4	27th

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

B—*continued.*

stations in India, etc., in October, 1920—*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 1920.	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.*
31	0	0	0	0	0	0	0	0	Calm	N 58° W	0·4	1·3	−0·9	(a)		72	+ 2	·629	+·007	0	−1·3	1	−0·6	0·85	1·15	−0·30	30·46	35·91	−5·45	0·85	Lucknow.
6	2	1	22	0	0	0	0	0	N 83° E	N 77° E	1·3	1·2	+0·1	76	+66	78	+ 2	·696	+·005	0·1	−0·9	0	−1·6	0	1·53	−1·53	45·68	41·76	+3·92	0	Bahraich.
12	1	0	0	0	0	12	4	2	S 67° W	S 70° W	2·7	1·8	+0·9	49	+ 6	42	−14	·425	−·110	0·3	−0·6	0	−1·0	0	0·73	−0·73	19·64	33·99	−14·35	0	Jhansi.
18	0	0	3	2	2	4	1	1	S 1° W	N 68° W	1·4	2·3	−0·9	18	−22	40	−17	·449	−·049	0·1	−0·7	0	−0·8	0	0·78	−0·78	20·78	24·65	−3·87	0	Agra.
15	2	1	2	3	1	2	1	4	N 22° W	N 83° W	0·8	0·7	+0·1	3	−13	56	− 9	·499	−·039	0·1	−1·0	0	−1·0	0	1·28	−1·28	21·41	24·60	−3·19	0	Mainpuri.
25	0	1	4	1	0	0	0	0	E	N 15° W	0·1	0·9	−0·8	17	+11	74	− 2	·670	+·061	0·1	−0·7	1	+0·2	0·17	1·22	−1·05	26·64	40·78	−14·14	0·17	Bareilly.
25	0	0	0	6	0	0	0	0	S 45° E	S 58° E	1·1	0·9	+0·2	20	+14	63	−12	·507	−·020	0	−0·6	0	−0·7	0	0·54	−0·54	38·09	36·89	+1·20	0	Roorkee.
																															VI.—Punjab.
19	1	0	1	3	0	1	4	2	S 82° W	N 83° W	0·9	1·7	−0·8	10	−22	51	− 1	·438	−·006	0·1	−0·6	0	−0·5	0·03	0·30	−0·27	21·48	23·99	−2·51	0·03	Delhi.
7	3	1	1	7	4	3	0	0	S 5° E	S 31° W	3·6	2·5	+1·1	37	+15	45	− 7	·398	−·033	0·6	+0·1	0	−0·5	0	0·13	−0·13	5·63	11·80	−6·17	0	Hissar.
10	0	1	2	16	0	1	0	1	S 50° E		2·7			55		62	− 2	·541	+·027	0·5	0	0	−0·7	0	0·28	−0·28	17·94	20·51	−2·57	0	Patiala.
6	0	0	12	11	1	0	0	1	S 67° E	N 10° W	2·9	0·8	+2·1	67	+63	50	−19	·429	−·091	0·7	+0·2	0	−0·5	0	0·25	−0·25	14·23	24·78	−10·55	0	Ambala.
26	0	0	0	3	2	0	0	0	S 28° E	S 55° E	0·8	0·8	0	17	+ 6	53	− 8	·426	−·041	0·3	−0·5	0	−0·6	0	0·35	−0·35	14·48	23·68	−8·20	0	Ludhiana.
18	0	1	3	6	1	0	1	1	S 58° E	S 83° E	0·8	1·2	−0·4	27	+15	60	− 1	·453	−·015	0·1	−0·4	0	−0·5	0	0·24	−0·24	7·97	15·65	−7·68	0	Lahore.
7	3	8	10	3	0	0	0	0	N 73° E	N 54° E	1·4	1·0	+0·4	62	+30	56	− 4	·437	−·012	0·3	−0·5	0	−0·7	0·02	0·25	−0·23	15·13	23·56	−8·43	0·02	Sialkot.
21	1	1	0	2	0	3	2	1	S 68° W	N 5° W	1·6	1·0	+0·6	10	− 4	49	− 9	·384	−·065	0·2	−0·8	0	−1·2	0·05	0·53	−0·48	13·73	22·60	−9·87	0·05	Rawalpindi.
12	0	8	5	1	2	2	1	0	N 80° E	N 48° E	3·6	2·8	+0·8	30	−13	40	− 6	·350	−·034	0	−0·4	0	−0·4	0	0·12	−0·12	5·60	10·30	−4·70	0	Khushab.
14	0	2	5	6	1	3	0	0	S 55° E		1·4			37		56		·444		0·1		0	−0·3	0	0·18	−0·18	6·79	10·21	−3·42	0	Lyallpur.
8	2	4	4	4	6	2	0	1	S 57° E	S 41° E	2·6	3·0	−0·4	27	− 9	50	+ 7?	·430	+·042	0·1	−0·4	0	−0·3	0	0·07	−0·07	2·35	8·13	−5·78	0	Montgomery.
26	2	1	0	0	0	2	0	0	N 30° W	S 40° E	1·0	1·1	−0·1	3	−18	52	− 4	·449	−·016	0	−0·3	0	−0·1	0	0·03	−0·03	4·13	5·14	−1·01	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)		65	+ 8	·392	−·013	0·6	−0·5	0	−0·5	0·02	0·18	−0·16	0·99	5·49	−4·50	0·02	Peshawar.
25	0	5	0	0	0	0	0	1	N 34° E	N 34° E	0·8	0·8	0	17	− 8	60	+ 1	·495	+·057	0·4	0	0	−0·2	0	0·10	−0·10	7·87	5·86	+2·01	0	Dera Ismail Khan.
																															VIII.—Sind.
18	0	1	0	4	2	0	0	6	N 82° W	N 41° E	1·7	1·5	+0·2	2	− 9	41	−15	·396	−·085	0	−0·4	0	−0·1	0	0·05	−0·05	1·83	2·35	−0·52	0	Jacobabad.
6	1	0	0	4	6	12	1	1	S 35° W	S 56° W	3·5	6·3	−2·8	56	+27	55	− 1	·528	−·006	0	−0·5	0	0	0	0·01	−0·01	1·27	6·17	−4·90	0	Hyderabad.
3	4	1	1	1	0	2	9	10	N 57° W	N 50° W	6·1	6·9	−0·8	59	+30	84	+11	·794	+·058	1·2	−0·4	0	0	0	0	0	1·41	5·97	−4·56	0	Karachi.
																															IX.—Rajputana.
7	0	0	0	4	10	10	0	0	S 12° W	S 46° W	4·0	3·6	+0·4	69	+22	46	− 2	·503	+·041	0·1	−0·6	0	−0·4	0	0·15	−0·15	12·34	9·73	+2·61	0	Bikaner.
21	0	2	1	0	0	6	1	0	S 45° W		1·6			13		32	−11	·317	−·095	0·2	−0·9	0	−0·3	0	0·20	−0·20	10·48	11·81	−1·33	0	Jodhpur.
22	0	1	1	0	0	2	2	3	N 69° W	N 42° W	1·7	2·3	−0·6	13	−34	40	− 9	·379	−·072	0·1	−1·1	0	−0·5	0	0·25	−0·25	29·58	21·92	+7·66	0	Jaipur.
21	0	0	0	0	0	7	3	0	S 57° W	S 82° W	2·2	2·0	+0·2	30	+ 1	51	− 9	·368	−·112	0	−1·1	0	−0·5	0	0·26	−0·26	21·04	18·69	+2·35	0	Ajmer.
21	0	0	0	0	0	4	2	4	W		1·0			25		32	−15	·370	−·098	0·5	−0·5	0	−0·6	0	0·36	−0·36	21·69	25·05	−3·36	0	Kotah.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	29·470	+·003	29·896	29·625	25th	29·306	1st	78·2	65·0	101·8	+4·3	66·8	−0·2	84·4	+2·1	35·0	109·0	9th	59·0	20th & 31st,
	Bhuj	334	29·593	−·004	29·878	29·743	25th	29·410	1st	82·3	76·0	98·6	+2·5	69·5	−1·4	84·0	+0·5	29·1	107·0	9th	62·8	29th
	Jamnagar	61								82·0	74·4	95·8	+2·0	69·1	−1·7	82·4	+0·1	26·7	104·2	5th	62·0	29th
	Dwarka	37	29·911	+·001	29·895	30·048	25th	29·757	5th	80·2	76·4	88·8	+2·2	76·8	+1·4	82·9	+1·8	12·0	97·8	7th	70·8	31st
	Rajkot	429	29·499	−·009	29·879	29·628	25th	29·340	5th	80·0	68·1	99·5	+3·9	70·1	+1·9	84·7	+2·9	29·4	105·1	5th & 9th.	63·9	30th
	Veraval	18	29·919	+·001	29·879	30·032	25th	29·732	5th	79·4	71·2	89·0	+0·1	74·2	+1·8	81·6	+0·9	14·8	101·3	5th	64·1	21st
	Bhavnagar Para	55	29·895	+·015	29·896	30·030	25th	29·712	5th	80·0	67·2	99·5	+3·0	70·8	+0·8	85·2	+1·9	28·7	105·8	5th	62·4	29th
	Surat	39	29·896	−·004	29·878	30·023	25th	29·730	5th	80·6	72·4	96·2	+2·5	73·0	+1·8	84·6	+2·1	23·2	102·0	5th	65·3	31st
	Ahmadabad	163	29·785	+·011	29·898	29·939	25th	29·630	1st	81·0	67·7	101·4	+4·2	73·0	+0·6	87·2	+2·4	28·4	108·9	5th	67·1	21st
25	Bombay	37	29·899	0	29·876	30·000	25th	29·732	5th	80·7	76·2	90·0	+2·2	78·5	+1·8	84·2	+1·0	11·5	94·0	27th	73·9	31st
	Ratnagiri	207	29·711	−·003	29·858	29·806	24th	29·551	5th	82·5	75·2	89·4	+1·2	76·3	+2·3	82·8	+1·7	13·1	97·7	27th & 28th.	72·5	28th
	Marmagao	60	29·871	−·002	29·863	29·965	24th	29·696	5th	79·1	76·7	86·1	+0·4	76·2	+0·6	81·2	+0·5	9·9	89·6	30th	74·3	15th
	Karwar	44	29·88	−·006	29·859	29·974	25th	29·714	5th	77·6	76·0	87·0	+1·6	75·3	+1·7	81·2	+1·7	11·7	92·9	30th	72·4	16th
26	Malegaon	1,430	28·507	−·003	29·884	28·649	25th	28·355	1st	78·4	66·3	96·1	+4·8	67·3	+1·6	81·7	+3·2	28·8	99·8	5th & 9th	56·0	28th
	Ahmadnagar	2,154	27·799	−·006	29·855	27·927	25th	27·637	1st	78·2	66·4	93·7	+5·0	67·8	+2·7	80·8	+3·9	25·9	98·7	17th	58·9	31st
	Poona	1,846	28·111	+·014	29·904	28·214	25th	27·955	1st	74·0	69·2	90·4	+1·4	66·5	+0·1	78·4	+0·7	23·9	94·6	4th	56·7	28th
	Sholapur	1,590	28·333	−·006	29·855	28·464	25th	28·169	5th	78·7	68·1	93·8	+3·4	71·9	+3·5	82·9	+3·5	21·9	97·6	2nd	67·5	27th
	Bijapur	1,948	27·985	+·002	29·852	28·105	24th	27·826	5th	77·3	70·2	90·7	+1·8	70·9	+2·5	80·8	+2·1	19·8	94·9	12th	68·3	26th
	Belgaum	2,562	27·4[illegible]7	+·013	29·877	27·513	24th	27·242	5th	72·6	68·4	85·2	+2·0	66·8	+1·7	76·0	+1·9	18·4	87·7	25th & 26th.	62·2	14th
	XI.—Central India.																					
20	Neemuch	1,626	28·307	−·009	29·864	28·468	25th	28·132	1st	81·6	65·6	94·8	+3·7	64·7	+0·3	79·6	+2·0	30·1	101·7	10th	56·9	29th
	Indore	1,823	28·119	−·001	29·877	28·265	25th	27·967	1st	79·0	66·8	93·4	+4·9	63·9	+0·6	78·7	+2·7	29·5	97·6	9th	55·7	28th
21	Nowgong	954	29·147	−·009	29·876	29·329	25th	28·959	1st	72·5	63·8	93·9	+3·9	63·4	−1·7	78·7	+1·1	30·5	98·0	13th	56·5	31st
	Sutna	1,041	28·864	+·004	29·861	29·045	25th	28·654	1st	78·0	65·2	92·5	+4·5	65·7	0	79·1	+2·3	26·8	96·3	3rd	57·8	30th
	XII.—Central Provinces.																					
22	Buldana	2,134								79·7	66·5	92·7	+6·8	71·2	+3·2	82·0	+5·0	21·5	96·2	3rd	65·6	31st
	Akola	925	29·010	+·004	29·882	29·170	25th	28·852	1st	81·3	66·1	100·0	+8·1	70·5	+4·5	85·2	+6·3	29·5	103·9	3rd	59·3	28th
	Amraoti	1,215	28·713	0	29·871	28·878	25th	28·544	1st	81·4	66·0	97·7	+6·9	72·3	+4·1	85·0	+5·5	25·4	101·1	11th	65·1	30th
23	Khandwa	1,044	28·885	−·001	29·886	29·033	25th	28·731	1st	78·3	66·9	97·7	+5·8	66·1	+0·1	81·9	+2·9	31·6	102·3	10th	55·8	30th
	Hoshangabad	1,006	28·929	+·002	29·903	29·065	25th	28·774	1st	72·9	65·9	93·5	+3·9	64·1	−2·1?	78·8	+0·9?	29·4	95·5	18th & 11th.	57·2	31st
	Saugor	1,807	28·090	−·035?	29·856?	28·284	25th	27·921	1st	77·5	62·6	94·7	+6·8	68·1	+2·0?	81·4	+4·4?	26·6	99·4	4th	61·4	28th
	Jubbulpore	1,327	28·572	−·017	29·861	28·735	25th	28·399	1st	73·8	64·6	91·5	+4·0	64·2	+0·5	77·9	+2·3	27·3	95·1	3rd	56·9	29th & 31st.
	Seoni	2,033	27·909	+·010	29·873	28·061	25th	27·754	1st	77·4	64·6	90·4	+3·7	64·6	+0·7	77·5	+2·2	25·8	95·1	2nd	56·1	31st
	Nagpur	1,017	28·918	+·016	29·887	29·083	25th	28·756	1st	79·4	66·6	95·4	+5·0	68·0	−0·1	81·7	+2·5	27·4	99·0	12th	60·3	31st
24	Pendra	2,040	27·900	+·030?	29·874	28·058	25th	27·740	1st	77·0	65·2	88·5	+3·9	64·5	−0·1	76·5	+1·9	24·0	92·8	3rd	57·4	31st

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

B—*continued.*

stations in India, etc., in October, 1920—*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 1920.	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.
8	1	9	4	1	1	2	3	2	N 43° E	S 77° E	5·1	4·8	+0·3	27	−9	47	−4	·457	−·048	1·6	+0·5	0	−0·4	0	0·30	−0·30	10·75	23·02	−3·27	0	Deesa.
12	4	2	0	0	0	4	8	1	N 72° W	N 62° W	3·9	5·0	−1·1	33	−16	75	+13	·819	+·188?	0·5	−0·9	0	−0·4	0	0·24	−0·24	10·48	13·80	−3·32	0	Bhuj.
4	1	8	3	0	3	7	3	2	N 80° W		5·8			23		69	+3	·749	+·050	1·0	−0·1	0	−0·1	0	0·13	−0·13	35·32	18·07	+17·25	0	Jamnagar.
1	14	1	0	0	0	5	5	5	N 37° W		8·1			62		83	+5	·854	+·037	1·1	−0·9	0	−0·2	0	0·07	−0·07	10·09	13·67	−3·58	0	Dwarka.
4	1	7	2	1	0	9	4	3	N 78° W	N 5° W	4·6	4·2	+0·4	17	−22	54	−12	·537	−·111	3·0	+1·5	0	−0·9	0	0·36	−0·36	22·72	25·55	−2·83	0	Rajkot.
7	11	1	0	1	0	1	6	4	N 32° W	N 2° E	4·4	4·5	−0·1	49	−16	66	−2	·669	−·013	1·5	−0·5	0	−0·5	0	0·33	−0·33	20·17	17·61	+2·36	0	Veraval.
0	3	2	1	1	2	2	10	10	N 64° W	N 73° W	2·9	5·0	−2·1	55	+10	49	−12	·509	−·113	2·7	+0·8	0	−0·5	0	0·27	−0·27	23·66	21·80	+1·86	0	Bhavnagar Para.
12	1	4	6	4	2	1	1	0	S 79° E	N 53° E	1·6	3·2	−1·6	33	+15	66	−4	·702	−·008	3·2	+1·5	0	−1·9	0	1·39	−1·39	27·19	40·53	−13·34	0	Surat.
1	1	8	1	1	0	1	1	17	N 20° W	N 8° E	2·7	2·4	+0·3	59	+26	47	−9	·509	−·060	0·8	−0·7	0	−0·6	0	0·37	−0·37	24·38	28·74	−4·36	0	Ahmadabad.
1	2	6	13	5	3	0	0	1	N 89° E	N 81° E	5·2	6·6	−1·4	66	−2	81	−1	·843	+·002	4·3	+0·7	1	−1·4	0·34	1·75	−1·41	39·73	70·44	−30·71	0·33	Bombay.
4	5	5	6	6	1	1	0	3	N 66° E	S 68° E	6·0	4·5	+1·5	40	0	69	−9	·768	−·032	3·9	+0·3	4	−0·7	1·07	3·47	−1·80	57·57	99·25	−41·68	0·06	Ratnagiri.
9	2	1	8	3	4	0	1	3	S 80° E	S 67° E	3·7	4·5	−0·8	27	−2	90	0	·894	+·007	6·8	+2·2	8	0	1·17	3·70	−2·62	76·08	91·86	−15·78	0·26	Marmagao.
29	1	0	0	0	1	0	0	0	Calm	N 48° E	1·5	1·8	−0·3	*a*		92	+3	·874	+·056	5·1	+1·0	6	−1·0	4·68	5·61	−0·93	81·02	118·08	−37·06	1·28	Karwar.
17	0	0	0	0	1	8	4	1	S 60° W	N 61° W	2·0	4·2	−2·2	40	+1	51	−9	·503	−·048	4·0	+1·3	0	−3·6	0·04	1·85	−1·81	10·18	21·37	−11·19	0·02	Malegaon.
10	4	3	1	2	2	0	2	7	N 18° W	N 36° E	4·1	5·8	−1·7	27	−5	53	−9	·502	−·055	1·3	−1·3?	2	−1·0	0·55	1·89	−1·34	9·55	20·46	−10·91	0·21	Ahmadnagar.
15	0	0	2	1	0	2	6	5	N 80° W	S 69° E	4·2	4·6	−0·4	27	+20	77	+6	·656	+·055	9·0	+5·3?	3	−2·0	2·14	3·68	−1·54	23·84	25·44	−1·60	1·33	Poona.
3	1	3	4	6	0	1	0	13	N 4° E	N 68° E	6·0	6·0	0	23	0	57	−4	·560	−·005	4·7	+0·5	2	−2·3	1·61	3·17	−1·56	14·09	26·27	−12·18	0·98	Sholapur.
4	5	6	2	6	0	0	4	4	N 26° E	N 77° W	1·1	2·9	−1·8	30	+22	70	0	·652	+·023	1·9	−1·6	3	−1·5	0·79	2·95	−2·16	13·27	18·17	−4·90	0·48	Bijapur.
21	1	4	3	0	0	1	1	0	N 53° E	N 53° E	3·0	7·0	−4·0	17	−1	81	+3	·640	+·019	6·0	+1·5	7	−0·6	5·69	4·73	+0·95	41·51	46·98	−5·47	1·94	Belgaum.
																															XI.—Central India.
20	0	0	3	0	0	0	8	0	W	N 2° E	2·5	4·4	−1·9	16	−2	40	−11	·440	−·023	0	−1·3	0	−0·7	0	0·35	−0·35	30·71	27·06	+3·65	0	Neemuch.
17	1	1	1	1	0	0	6	4	N 59° W	N 18° E	1·5	1·6	−0·1	27	+2	51	−11	·505	−·037	0·6	−1·1	0	−1·9	0	1·06	−1·06	34·87	31·18	+3·69	0	Indore.
13	0	1	1	1	7	5	2	1	S 22° W	S 67° W	0·7	1·1	−0·4	37	+13	60	−9	·487	−·078	1·0	−1·0	0	−1·5	0	1·06	−1·06	26·12	40·38	−14·26	0	Nowgong.
27	0	0	0	0	0	2	2	0	S 67° W	N 27° W	1·3	2·8	−1·5	10	−39	48	−20	·461	−·122	0·4	−1·9	0	−2·1	0	2·14	−2·14	33·02	41·25	−8·23	0	Sutna.
																															XII.—Central Provinces.
0	0	2	8	7	0	1	6	7	N 76° E		4·4	3·8	+0·6	10		48		·489		4·4		0	−2·7	0·09	2·16	−2·07	20·19	32·41	−12·22	0·05	Buldana.
5	2	3	7	1	1	1	7	4	N 9° W	N 53° E	3·6	2·6	+1·0	17	−1	41	−21	·445	−·116	3·5	+0·8	0	−2·4	0	1·89	−1·89	10·66	29·73	−19·07	0	Akola.
1	0	10	9	1	1	2	4	8	N 57° E	N 63° E	3·6	2·8	+0·8	37	+5	41	−17	·448	−·100	4·6	+1·9	0	−2·4	0	1·76	−1·76	13·75	31·10	−17·35	0	Amraoti.
6	2	4	0	2	3	3	10	1	S 84° W	N 2° E	2·8	2·3	+0·5	30	+19	53	−8	·518	−·016	3·5	+1·5	0	−1·9	0	1·04	−1·04	22·94	28·13	−5·19	0	Khandwa.
19	0	5	0	0	0	7	0	0	S 45° W	N 79° E	0·9	1·2	−0·3	3	−15	67	−4	·548	−·034	1·0	−0·9	0	−1·9	0	1·24	−1·24	32·63	46·22	−13·59	0	Hoshangabad.
13	0	0	1	0	5	4	7	1	S 53° W	S 27° W	2·4	2·3	+0·1	37	+23	41	−15	·387	−·100	0·8	−0·9	0	−1·7	0	0·93	−0·93	35·66	42·27	−6·41	0	Saugor.
6	0	1	3	15	3	2	1	0	S 40° E	S 27° E	1·0	1·4	−0·4	59	+23	59	−16	·499	−·099	0·1	−1·8	0	−2·1	0	1·62	−1·62	29·74	51·84	−22·10	0	Jubbulpore.
25	0	1	1	0	0	1	3	0	W	N 9° E	2·1	2·0	+0·1	6	−17	47	−16	·439	−·096	1·6	−0·6	0	−2·9	0	1·79	−1·79	34·05	48·78	−14·73	0	Seoni.
7	6	6	5	1	0	0	1	5	N 23° E	N 7° E	2·2	2·8	−0·6	46	+17	48	−16	·481	−·100	1·9	−0·9	0	−2·8	0	1·84	−1·84	27·58	45·87	−18·29	0	Nagpur.
29	0	0	0	0	0	1	1	0	S 66° W		1·7			7		51	−13	·416	−·112	3·7	+1·0	0	−3·0	0	2·43	−2·43	33·31	43·45	−10·14	0	Pendra.

(*a*) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	28·937	—·006	29·859	29·107	25th	28·769	1st	78·5	69·0	92·7	+4·5	70·1	+0·6	81·4	+2·5	22·6	96·3	16th	62·6	24th
	Chanda	*634*	29·283	—·010	29·866	29·441	24th	29·113	1st	79·3	70·3	94·6	+4·6	68·1	+0·1	81·4	+2·3	26·5	98·1	12th	60·6	31st
	Jagdalpur	1,813	28·114		29·868	28·263	25th	27·977	1st	74·2	69·5	87·9		66·9		77·4		21·0	92·3	16th	61·6	20th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·653	+·004	29·874	28·190	25th	27·905	1st	80·2	64·6	95·1	+5·0	71·6	+3·5	83·3	+5·3	23·5	98·9	12th	54·0	31st
	Nizamabad	1,248	28·675	+·010	29·859	28·817	24th	28·515	1st	81·0	69·0	96·2	+7·4	69·8	+1·7	83·0	+4·5	26·4	100·9	12th	61·8	9th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·418	—·007	29·852	28·556	25th	28·268	5th	79·1	69·0	95·3	+4·7	71·4	+2·4	83·3	+3·5	23·9	99·0	13th & 15th.	65·1	10th
	Raichur	*1,311*	28·612	+·014	29·856	28·737	25th	28·466	1st	80·6	72·1	93·4	+3·4	73·8	+1·6	83·6	+2·5	19·6	98·5	1st & 13th.	70·4	4th
	Hyderabad (Deccan)	1,738	28·217	+·014	29·862	28·558	25th	28·061	1st	78·5	71·1	90·9	+2·5	71·4	+2·3	81·2	+2·4	19·5	96·5	14th	66·9	9th
	Hanamkonda	877	29·040	+·005	29·856	29·196	25th	28·876	1st	82·7	73·3	94·4	+4·6	74·3	+3·2	84·4	+3·9	20·1	99·9	1st	69·6	9th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·540	+·003	29·846	27·634	24th	27·393	5th	74·6	68·8	85·8	+0·9	68·8	+0·9	77·3	+0·9	17·0	99·4	21st	65·5	31st
	Hassan	3,149	26·839	+·005	29·846	26·921	25th	26·687	5th	72·1	68·1	83·2	+1·5	65·3	+1·2	74·2	+1·3	17·9	86·7	23rd	62·6	23rd
	Bangalore	3,021	26·960	+·001	29·857	27·064	25th	26·818	5th	71·7	67·8	83·1	+1·2	65·9	+0·8	74·5	+1·0	17·2	87·4	14th	61·1	20th
	Mysore	2,518	27·436	—·006	29·852	27·526	25th	27·293	5th	73·8	69·2	85·3	+0·9	67·6	+0·7	76·5	+0·8	17·7	89·6	19th	65·6	16th & 27th.
	XV.—Madras.																					
30	Mangalore	72	29·862	—·009	29·865	29·958	24th & 25th.	29·719	5th	80·4	76·2	86·6	+0·9	75·3	+1·3	80·9	+1·1	11·3	90·8	30th	72·7	30th
	Calicut	27	29·905	—·002	29·861	29·989	25th	29·778	5th	78·2	76·5	84·4	—1·7	75·9	+1·2	80·1	—0·3	8·5	87·2	29th	70·1	9th
	Cochin	9	29·930	—·002	29·867	29·996	13th	29·817	1st	79·8	76·3	85·5	—1·1	75·2	+0·5	80·4	—0·3	10·3	89·7	26th	73·5	7th
	Trivandrum	198	29·743	+·004	29·872	29·902	13th	29·611	1st	77·4	75·5	82·9	+0·1	74·7	—0·3	78·8	—0·1	8·2	86·5	20th	73·1	20th
31	Pamban	37	29·865	—·016	29·830	29·954	25th	29·720	1st	80·8	76·5	90·5	+2·7	78·4	+1·2	84·4	+1·9	12·1	91·4	4th	77·7	7th & 28th.
	Madura	447	29·480	+·009	29·859	29·568	25th	29·220	1st	81·3	76·3	90·8	—0·3	75·5	+1·5	83·2	+0·6	15·3	95·1	14th	70·8	4th
	Pudukkottai	318	29·603	+·008	29·853	29·689	24th	29·452	1st	80·2	75·2	90·9	+0·4	75·1	+0·7	83·0	+0·5	15·8	96·9	14th & 19th.	71·1	4th
	Negapatam	31	29·876	—·008	29·836	29·968	25th	29·731	1st	80·0	75·7	88·1	—0·6	76·4	+0·2	82·2	—0·2	11·7	92·8	2nd & 19th.	72·2	4th
	Trichinopoly	255	29·653	—·010	29·841	29·760	25th	29·505	1st	80·9	76·5	92·3	+1·1	74·8	+0·5	83·5	+0·8	17·4	96·5	19th	71·3	2nd
	Coimbatore	1,341	28·595	+·013	29·869	28·691	25th	28·448	5th	77·7	72·9	89·8	+1·7	71·6	+1·0	80·7	+1·3	18·2	94·7	20th	69·1	10th
	Salem	918	29·005	+·004	29·857	29·193	24th & 25th.	28·861	1st	77·4	73·4	89·7	0	72·2	+0·9	81·0	+0·5	17·4	95·0	19th	65·2	17th
	Cuddalore	37	29·866	—·008	29·833	29·987	24th	29·499	1st	79·9	76·7	87·6	—0·9	75·9	+1·3	81·7	+0·2	11·8	94·1	13th	69·0	14th
	Vellore	707	29·191	—·011	29·844	29·317	24th	29·022	1st	78·0	74·5	89·3	+0·1	72·5	—0·5	80·9	—0·2	16·8	98·2	1st	67·2	17th
	Madras	22	29·886	—·003	29·840	30·009	25th	29·712	1st	81·0	79·1	90·2	+0·9	76·5	+1·5	83·3	+1·2	13·7	102·9	1st	77·8	1st
32	Cuddapah	428	29·491	+·005	29·859	29·617	25th	29·317	1st	79·8	74·9	89·9	—2·7	74·6	+0·4	82·3	+1·1	15·5	98·6	1st	72·0	27th & 28th.

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

B—*continued.*

stations in India, etc., in October, 1920—*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 1920.	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
																														XII.—Central Provinces—*concld.*
22	1	2	3	0	1	1	1	0	N 75° E	N 27° E	1·6	2·8	−1·2	10	− 8	60	−13	·585	−·068	2·5	−0·5	0	−3·3	0	2·04	−2·04	34·47	47·05	−12·58	0	Raipur.
7	4	5	3	2	2	4	1	3	N 31° E	N 14° E	1·7	1·7	0	13	− 5	62	−11	·629	−·047	3·7	+1·0	0	−2·5	0	1·64	−1·64	28·34	49·09	−20·75	0	Chanda.
24	1	2	2	1	0	0	0	1	N 54° E		1·6			10		79		·664		0·2		1	−4·4	1·95	4·01	−2·06	34·28	57·04	−22·76	1·90	Jagdalpur.
																														XIII.—Hyderabad.
3	2	4	8	7	1	3	2	1	S 77° E		7·0			37		41	−14	·420	−·118	4·5	+1·7	0	−2·4	0·08	1·61	−1·53	7·85	25·90	−18·05	0·08	Aurangabad.
9	2	8	3	1	4	0	2	2	N 54° E		2·0			27		53	−19	·560	−·126	4·0	+0·9	0	−2·4	0	1·65	−1·65	23·98	38·03	−14·05	0	Nizamabad.
1	2	2	10	3	2	2	5	4	N 81° E	N 72° E	5·3	6·1	−0·8	13	−10	59	− 9	·581	−·053	2·2	−1·1	1	−2·4	1·40	2·89	−1·49	13·96	28·80	−14·84	1·40	Gulbarga.
2	2	4	8	3	2	0	5	5	N 46° E	S 79° E	5·9	5·3	+0·6	20	+14	66	− 1	·681	+·027	4·2	+0·7	4	+0·1	0·97	3·08	−2·11	14·26	25·33	−11·05	0·33	Raichur.
20	0	0	3	6	0	1	1	0	S 46° E	S 68° E	2·0	2·8	−0·8	27	+19	69	− 4	·668	+·020	4·8	+0·9	2	−2·2	0·82	3·01	−2·19	19·06	28·53	−9·47	0·67	Hyderabad (Deccan).
14	0	0	0	6	4	1	2	4	S 12° W		3·8			20		44	− 5	·700	+·023	6·6	+3·1	2	−1·1	2·12	1·81	+0·31	14·79	31·69	−16·90	1·07	Hanamkonda.
																														XIV.—Mysore.
8	0	2	8	5	0	4	6	3	S 36° E	S 45° W	3·9	4·1	−0·2	13	− 1	74	− 2	·622	−·021	4·5	−1·0	4	−2·7	4·03	4·41	−0·38	17·77	20·92	−3·15	2·18	Chitaldrug.
3	0	1	11	0	0	2	10	4	N 56° W	N 53° E	3·9	1·8	+2·1	10	−13	81	− 1	·642	+·011	5·0	−1·7	8	−1·8	4·20	7·13	−2·93	17·60	29·43	−11·83	1·32	Hassan.
3	1	7	5	1	0	2	10	2	N 23° W	N 1° E	4·4	3·4	+1·0	20	+17	81	− 1	·630	+·002	6·3	+0·2	5	−4·2	2·58	6·18	−3·60	21·69	29·66	−7·97	0·92	Bangalore.
5	2	5	5	0	10	7	6	1	N 68° W	S 72° W	4·0*	5·3	−1·3	10	− 8	79	− 4	·656	−·001	6·0	−1·2	6	−3·4	8·08	6·66	+1·42	21·01	25·67	−4·66	3·27	Mysore.
																														XV.—Madras.
1	5	2	15	4	1	1	0	2	N 79° E	S 89° E	4·1	1·6	+2·5	56	+16	82	− 1	·840	+·005	4·0	−1·6	9	−1·0	4·20	7·51	−3·31	112·04	121·58	−9·54	0·87	Mangalore.
12	3	1	5	4	0	1	3	2	N 64° E	N 76° E	4·1	5·4	−1·3	10	−37	92	+ 6	·888	+·045	6·5	+0·6	13	+1·8	16·70	10·27	+6·43	126·00	106·72	+19·28	3·43	Calicut.
21	1	2	3	2	2	0	0	0	S 81° E	N 34° E	3·0	3·2	−0·2	20	−34	85	+ 1	·861	+·015	5·4	−0·2	14	−0·3	19·81	13·28	+6·53	114·96	98·28	+16·68	3·97	Cochin.
9	1	0	1	1	0	2	4	13	N 58° W	N 14° W	3·8	3·7	+0·1	49	+ 1	92	+ 8	·857	+·045	7·8	+1·1	16	+3·8	9·28	10·74	−1·46	64·83	47·93	+16·89	1·30	Trivandrum.
4	7	1	0	1	8	4	3	3	S 75° W	S 68° W	7·7	6·3	+1·4	23	+ 1	81	− 1	·858	−·021	3·3	−1·1	9	−0·8	3·64	9·94	−6·30	4·26	13·20	−8·94	1·00	Pamban.
0	6	5	1	0	1	2	7	9	N 38° W	N 14° W	2·9	1·8	+1·1	53	− 8	78	+ 2	·842	+·060	6·8	+1·6	8	−2·5	5·01	8·16	−3·15	22·00	23·56	−1·56	1·81	Madura.
12	9	1	0	0	0	2	3	4	N 33° W		2·7			42		78	− 3	·804	−·001	5·5	−0·9	6	−4·0	3·17	6·39	−3·22	23·73†	23·67	+0·06	1·53	Pudukkottai.
3	2	1	1	0	0	10	7	7	S 88° W	N 85° W	5·1	3·4	+1·7	56	+16	81	0	·829	−·033	5·8	−0·4	13	+2·7	10·88	10·99	−0·11	22·15	23·20	−1·05	3·71	Negapatam.
7	4	3	0	0	0	10	6	1	S 89° W	N 77° W	1·9	2·8	−0·9	39	+ 3	81	+ 1	·851	+·041	5·5	−0·2	13	+3·3	9·99	7·15	+2·84	22·95	21·52	+1·43	2·65	Trichinopoly.
9	0	5	2	1	5	6	3	0	S 9° W	S 4° E	3·1	2·0	+1·1	20	− 5	77	− 9	·741	−·028	4·2	−1·4	6	−3·8	3·00	6·51	−3·51	9·04	14·66	−5·62	1·10	Coimbatore.
23	0	0	0	0	0	4	2	2	S 78° W	S 40° W	1·7	1·8	−0.1	20	+ 9	82	+ 1	·768	−·011	5·2	−0·6	8	−2·2	7·36	6·79	+0·57	28·93	31·82	−2·89	2·22	Salem.
7	6	0	0	1	0	13	1	3	N 82° W	N 69° W	4·4	1·6	+2·8	37	−10	86	0	·877	−·012	6·4	+1·2	14	+3·0	8·93	11·77	−2·84	24·48	28·73	−4·25	2·02	Cuddalore.
28	0	0	0	0	0	0	2	1	N 75° W		1·2			93		84	+ 3	·804	+·030	4·1	−0·3	11	+3·1	6·35	6·59	−0·24	18·96	29·98	−11·02	0·96	Vellore.
11	2	2	0	0	3	7	2	4	S 78° W	N 83° W	2·3	3·5	−1·2	27	− 5	84	+ 1	·871	−·008	6·8	+1·5	11	+0·3	21·05	11·58	+9·47	27·66	28·38	−0·73	5·30	Madras.
18	1	2	1	3	0	3	2	2	N 45° W	N 72° E				1	−21	79	+ 6	·804	+·040	6·5	+1·7	13	+5·7	7·66	4·96	+2·70	24·21	25·42	−1·21	1·76	Cuddapah.

* Mean of 27 days.
† Rainfall for May wanting.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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—*concld.*																					
	Bellary	1,475	28·449	+·003	29·856	28·580	24th	28·189	1st	78·7	71·3	91·7	+1·4	72·0	+0·8	81·9	+1·1	19·7	98·3	19th	69·2	5th
	Kurnool	923	28·994	+·008	29·860	29·116	25th	28·833	1st	78·5	73·6	93·1	+2·2	73·6	+2·6	83·3	+2·4	19·5	99·6	1st	70·6	17th
33	Nellore	66	29·836	−·004	29·837	29·969	24th & 25th.	29·649	1st	79·5	76·3	89·2	−2·2	74·9	−0·9	82·0	−1·5	14·3	101·0	1st	67·6	14th
	Masulipatam	15	29·899	0	29·819	30·050	25th	29·724	1st	81·0	77·3	88·9	−0·2	76·1	+0·1	82·4	−0·1	12·8	94·8	17th	73·2	4th & 30th
	Cocanada	26	29·892	+·012	29·855	30·057	25th	29·713	1st	81·2	77·3	88·1	0	76·5	+0·5	82·3	+0·3	11·6	94·3	17th	70·5	8th
	Vizagapatam	38	29·866	+·002	29·842	30·035	25th	29·701	8th	82·5	77·3	87·7	−0·5	78·1	+1·8	82·8	+0·7	9·6	91·2	13th	75·1	8th
	Calingapatam	19	29·882		29·838	30·060	25th	29·718	1st	80·6	77·3	88·6		76·2		82·4		12·4	95·3	2nd	73·8	28th
	Gopalpur	56	29·859	+·012	29·856	30·047	25th	29·691	1st	80·3	75·8	89·1	+1·4	76·2	+1·9	82·6	+1·7	12·9	93·9	1st	73·7	24th
	Bay Stations.																					
1	P. V. Fraser	8	29·881		29·845	30·077	25th	29·715	1st	84·4	80·2											
	Port Blair	58	29·850	−·012	29·839	29·939	25th	29·709	1st	79·7	76·9	84·8	−1·8	78·0	−0·9	80·5	−1·3	8·8	87·4	20th	72·9	14th
	Table Island	90	29·824	+·004	29·848	29·921	25th	29·675	1st	81·1	77·1	84·4	−1·2	77·7	+0·3	81·1	−0·5	6·7	86·2	1st & 9th.	74·3	29th
	Kashmir.																					
18	Muzaffarabad		27·540			27·730	25th	27·328	1st	62·7	54·5	87·8		57·7		72·7		30·1	95·0	14th	54·1	21st
	Srinagar	5,204	24·994	+·011	24·965	25·126	26th	24·843	14th	50·9	47·0	71·6	+1·5	39·8	−1·3	55·7	+0·1	31·8	77·5	4th	34·3	30th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·934	+·056	20·902	21·045	29th	20·778	5th	33·5	34·4*	51·3	−6·1	28·6	+1·8	40·0	−2·1	22·7	61·0	14th	20·9	19th
	Leh	*11,503*	19·833	+·043	19·801	19·940	29th	19·685	1st	39·6	32·6†	58·3	−0·3	30·7	+0·4	44·5	+0·1	27·6	64·0	13th	26·1	19th
	Skardu	*7,505*	23·015	+·056	22·985	23·137	22nd	22·822	14th	45·8	39·8‡	63·9	−2·5	40·8	−0·5	52·4	−1·5	23·1	70·9	8th	34·8	31st
	Gilgit	4,890	25·313	+·084	25·286	25·459	30th	25·046	14th	57·4	50·6	72·1	−2·8	51·0	−1·8	61·5	−2·3	21·1	80·4	14th	44·8	15th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·465		25·434	25·635	25th	25·302	1st	59·4	45·3	85·7		53·8		69·7		31·9	92·3	7th	45·7	20th
	Quetta	5,502	24·740	+·005	24·700	24·871	25th	24·628	1st	44·3	40·0§	78·3	+3·0	40·3	+1·4	59·3	+2·2	38·0	85·7	14th	28·5	16th
	Chaman	4,311	25·749	−·059	25·711	25·865	25th	25·627	13th	62·1	49·8	81·7	+1·8	54·2	+1·5	68·0	+1·7	27·5	90·3	14th	40·6	16th
	Kalat	6,630	23·828		23·790	23·953	25th	23·722	1st	43·7	38·7‖	75·3	+0·8	41·8		58·6		33·5	84·0	7th	27·4	16th
	Dalbandin	2,772	27·186		27·149	27·317	25th	27·030	13th	59·4	46·6	91·5		52·1		71·8		39·4	101·1	7th	35·3	16th
	Pasni		29·939		29·899	30·065	25th	29·768	1st	75·3	70·3	93·6		62·0¶		78·1¶		31·6	103·9	3rd	51·1	18th
	Panjgur	3,177	26·803		26·761	26·930	25th	26·682	5th	62·3	48·9	89·9		57·2		73·5		32·7	100·0	7th	42·0	17th
	Seistan		28·215			28·390	14th	28·020	12th	60·4	54·8	86·6		53·0		69·8		33·6	98·3	13th	31·4	17th
	Hill stations excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·504	−·005	24·480	24·666	25th	24·346	15th	62·5	48·9	77·4	+2·8	50·2	+1·0	63·8	+1·9	27·2	86·0	13th	45·9	18th
	Cherat	*4,256*	25·747	−·012	25·715	25·878	25th	25·586	15th	67·2	52·1	79·5	+1·7	62·2	+4·5	70·8	+3·1	17·3	86·7	13th	55·8	16th
	Drosh (*c*)	4,500	25·148			25·350	25th	24·990	1st	57·1	47·7	76·6	−0·5	53·6	+0·8	65·1	+0·1	23·0	87·1	13th	29·0	15th
	Murree	6,181	24·057	+·012	24·025	24·210	24th	23·880	15th	61·0	47·7	70·8	+2·0	57·2	+4·1	64·0	+3·1	13·6	76·9	13th	45·7	15th

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 15 days.
† " " 17 "
‡ " " 30 "
§ " " 27 "
‖ " " 22 "
¶ " " 26 "

B—*continued.*

stations in India, etc., in October, 1920—*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 1920.	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.*
3	2	4	6	1	1	2	6	6	N 19° W	N 62° W	3·3	3·1	+0·2	20	+13	69	+ 2	·671	+·045	4·9	−0·4	3	−3·2	2·49	4·00	−1·51	17·00	16·74	+0·26	1·80	Bellary.
23	1	0	0	0	0	1	5	1	N 81° W	N 66° W	1·4			20	+13	78	+ 4	·764	+·061	4·6	+0·5	4	−0·8	1·82	3·15	−1·33	10·13	23·50	−13·37	0·66	Kurnool.
14	3	3	2	0	2	0	2	5	N 12° W	N 68° W	1·5	3·2	−1·7	23	+ 5	86	+ 6	·862	0	6·5	−0·1	15	+7·2	25·48	8·31	+17·17	32·15	21·08	+11·07	7·10	Nellore.
1	7	5	3	2	0	1	3	9	N 8° W	N 1° E	4·1	3·4	+0·7	46	+ 6	84	+ 1	·882	−·001	6·5	+1·6	8	−0·3	8·68	7·95	+0·73	25·66	32·61	−6·95	2·00	Masulipatam.
9	3	13	1	0	0	0	2	3	N 23° E	N 11° W	6·6	5·5	+1·1	49	−12	83	+ 4	·884	+·060	5·7	+1·2	10	+2·1	12·64	7·68	+4·96	35·34	30·77	+4·57	5·10	Cocanada.
5	4	9	0	0	1	0	2	10	N 6° W	N 74° W	4·7			53	+ 8	78	+ 6	·868	+·091	6·3	+1·3	9	+2·5	13·19	6·29	+6·90	26·06	30·47	−4·41	2·92	Vizagapatam.
2	10	5	1	0	0	0	3	10	N 13° W		4·3			71		86		·895		4·1		8	+2·7	9·08	5·45	+3·63	32·58	37·70	−5·12	2·49	Calingapatam.
1	23	4	1	0	0	0	0	2	N 5° E	N 23° W	5·2	5·8	−0·6	89	+14	80	− 2	·833	+·019	4·3	+2·1	4	−2·5	3·60	7·86	−4·26	24·65	38·45	−13·80	2·03	Gopalpur.
																															Bay Stations.
15	1	1	4	1	2	4	2	1	S 2° W					10		83		·975		5·0		3	−1·2	3·40	3·59	−0·19	21·86	33·06	−11·20	1·70	P. V. Fraser.
2	0	2	3	3	5	3	2	11	S 89° W	S 68° W	6·3	4·6	+1·7	17	− 1	88	− 1	·885	−·035	6·0	−0·4	19	+3·5	15·64	11·06	+4·58	96·39	94·75	+1·64	2·13	Port Blair.
2	2	4	6	5	5	4	2	1	S 49° E		9·2			30		83	− 2	·881	−·026	6·0	−1·1	11	+0·8	5·57	6·58	−1·01	70·69	68·63	+2·06	1·08	Table Island.
																															Kashmir.
23	0	0	0	0	1	6	1	0	S 45° W		1·1			26		57		·327		0·8		1	−1·8	0·55	2·17	−1·62	23·71	31·07	−7·36	0·47	Muzaffarabad.
19	0	1	2	5	3	1	0	0	S 41° E	S 51° E	1·6	2·2	−0·6	30	+ 8	74	−12	·278	−·008	1·0	−1·1	2	−0·8	0·63	1·12	−0·49	7·23	11·51	−4·28	0·46	Srinagar.
																															Gulmarg.
24	0	1	0	1	0	2	3	0	S 66° W		3·0			10		72*	+ 2	·172*	+·018	3·8	+1·8	3	+1·4	2·30	0·49	+1·81	6·36	6·01	+0·35	1·10	Dras.
31	0	0	0	0	0	0	0	0	Calm	S 83° W	0·9	1·5	−0·6	(*a*)		49†	+ 2	·117†	+·004	2·0	−0·4	0	−0·1	0·03	0·15	−0·12	0·34	1·76	−1·42	0·02	Leh.
25	0	0	2	0	1	1	2	0	S 24° W		3·2			7		59‡	− 6	·183‡	−·031	2·5	−0·3	1	+0·6	0·45	0·12	+0·33	1·12	3·36	−2·24	0·36	Skardu.
28	0	0	0	0	0	3	0	0	S 45° W		0			10		60	+13	·291	+·054	2·3	−1·1	3	+2·3	1·09	0·26	+0·83	3·41	2·80	+0·61	0·52	Gilgit.
																															Baluchistan.
24	0	0	1	0	1	3	1	1	S 49° W		2·7¶			10		29		·145		0·5		0	−0·3	0·08	0·12	−0·04	5·00	4·93	+0·07	0·06	Fort Sandeman.
31	0	0	0	0	0	0	0	0	Calm	N 59° W	1·4	1·4	0	(*a*)		59‖	+15	·182‖	−·013	0·3	0	0	−0·3	0·01	0·14	−0·13	0·45	1·82	−1·37	0·01	Quetta.
11	1	1	9	5	3	1	0	0	S 66° E	S 43° E	3·0	5·8	−2·8	4	− 8	41	+ 8	·226	+·024	1·0	+0·5	0	−0·3	0	0·13	−0·13	0·08	0·38	−0·30	0	Chaman.
25	0	0	0	1	3	2	0	0	S 8° W	S 11° E	3·6			17	−29	49‖	+ 11	·154‖	−·030	0·4		0	−0·4	0·08	0·15	−0·07	0·38	1·53	−1·15	0·08	Kalat.
17	2	6	2	2	0	1	1	0	N 55° E		3·1			27		32		·165		0·9		0	−0·2	0	0·08	−0·08	0·24	0·31	−0·07	0	Dalbandin.
14	1	2	2	1	0	0	3	8	N 32° W		5·2			30		78		·682		0·5		0	0	0	0·01	−0·01	0·11	1·77	−1·66	0	Pasni.
7	2	13	9	0	0	0	0	0	N 19° E		4·1			66		33		·191		0		0		0			0·12			0	Panjgur.
6	3	0	0	1	0	0	0	21	N 39° W		8·0			69		68		·370		0·6		0		0			0			0	Seistan.
																															Hill stations excluding Kashmir and Baluchistan.
31	0	0	0	0	0	0	0	0	Calm		1·3			(*a*)		36	− 3	·201	−·010	1·0	−0·1	1	−1·4	0·15	0·98	−0·83	13·68	14·59	−0·91	0·15	Parachinar.
5	13	2	0	1	5	2	0	3	N 9° W	N 11° W	4·0	7·4	−3·4	30	−21	33	− 9	·216	−·030	0·2	−0·8	1	−0·3	0·50	0·50	0	6·17	13·41	−7·24	0·50	Cherat.
26	0	0	5	0	0	0	0	0	E		1·0			16		48	− 6	·224	−·019	0·8	−1·2	3	+0·2	0·70	1·39	−0·69	5·25	6·04	−0·79	0·42	Drosh.
16	2	0	0	1	2	0	0	0	S 45° E	N 27° W	2·1	4·5	−2·4	3	−16	36	− 7	·192	−·021	1·3	0	1	−1·5	0·52	1·56	−1·04	19·35	39·76	−20·41	0·52	Murree.

* Mean of 15 days.
† " " 17 "
‡ " " 30 "
§ " " 27 "
‖ " " 22 "
¶ " " 12 "

(*a*) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 212

Number of sub-division.	Station.	Height of bar-distern 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
	Hill stations exluding Kashmir and Baluchistan—*concld.*																					
	Simla	7,232	23·199	+·029	23·161	23·329	24th	23·057	1st	57·7	46·8	64·0	+1·2	53·0	+1·9	58·5	+1·5	11·0	69·4	1st	46·0	27th
	Chakrata	6,922	23·482		23·442	23·618	24th & 25th.	23·332	1st	59·6	49·9	70·9	+3·9	52·4	+1·4	61·7	+2·7	18·5	75·6	2nd	47·6	27th
	Mukteswar	7,592	22·938	+·024	22·897	23·058	25th	22·815	1st	56·2	47·7	67·0	+0·5	48·2	−1·6	57·6	−0·5	18·8	71·9	3rd	41·8	27th
	Darjiling	7,432	23·039	+·005	22·994	23·101	24th	22·694	12th	55·0	52·4	62·8	+1·5	50·3	+0·4	56·5	+0·9	12·5	68·2	5th	44·6	28th
	Kalimpong		26·058		26·012	26·232	24th	25·677	12th	63·5	60·7	73·5		59·9		66·7		13·6	76·8	4th	51·0	29th
	Shillong	4,920	25·207	+·022	25·159	25·375	25th	25·026	12th	64·2	59·6	70·6	−1·1	54·8	+0·3	62·7	−0·4	15 8	74·5	10th	48·5	31st
	Cherrapunji	4,309	25·741	+·006	25·692	25·909	25th	25·620	12th	67·4	62·9	72·1	+0·1	60·7	+0·2	66·4	+0·1	11·4	76·5	8th	55·2	29th
	Netarhat									72·3	63·2	80·6		63·2		71·9		17·4	85·8	3rd & 14th.	58·3	29th
	Maymyo	3,546	26·476	+·016	26·421	26·616	25th	26·230	1st	65·6	64·5	76·7	−0·1	61·0	+0·9	68·8	+0·4	15·7	80·2	2nd	52·4	31st
	Pachmarhi	3,528	26·508	+·009	26·455	26·641	25th	26·372	1st	73·5	63·7	84·5	+5·9	59·5	+0·3	72·0	+3·1	25·0	89·0	4th	52·1	28th, 29th & 30th.
	Mount Abu	3,945	26·127	+·017	26·077	26·257	25th	25·951	1st	76·0	57·7	82·4	+3·2	66·7	+2·2	74·6	+2·7	15·7	88·6	9th	61·9	20th
	Mercara	3,781	26·237	+·002	26·170	26·318	25th	26·101	5th	66·8	64·7	76·2	+0·2	61·7	−0·4	68·9	−0·1	14·5	80·1	20th	57·3	15th
	Ootacamund	7,397	23·073	+·018	23·009	23·140	13th	22·948	5th	58·9	54·5	65·3	+1·3	51·3	+0·8	58·3	+1·1	14·0	68·4	13th	45·2	17th
	Kodaikanal	7,688	22·838	+·002	22·773	22·900	25th	22·736	5th	57·2	53·6	64·3	+1·8	51·3	−0·1	57·8	+0·9	13·0	69·0	24th	48·1	23rd
	Extra India.																					
	Singapore (a)	10	29·861	−·079	29·792	29·930	9th & 10th.	29·799	17th & 19th.	83·2		85·8	+0·9	74·4	+0·4	81·6	+0·7	14·4	93·0	4th	72·5	1st
	Penang (a)	17	29·847	−·073	29·789	29·891	15th & 19th.	29·779	1st	80·1		87·2	−1·2	71·7	−1·5	79·5	−1·3	15·5	91·0	31st	68·0	1st
	Trincomalee	99	29·823	+·012	29·851	29·893	25th	29·690	1st	78·1	74·6	92·3	+3·6	76·0	+0·5	84·2	+2·1	16·2	96·2	14th	73·7	15th
	Colombo	24	29·924	−·001	29·874	30·004	9th	29·814	1st	76·6	75·0	85·6	−0·4	75·0	−0·3	80·3	−0·3	10·6	87·3	26th	71·7	20th
	Hambantota	64	29·871		29·861	29·934	10th	29·779	1st	76·9	74·5	86·9		75·7		81·3		11·2	90·1	29th & 31st.	73·3	23rd
	Minicoy	7	29·978	+·040		30·045	25th	29·829	5th													
	Amini Divi	*13*	29·926	−·004	29·867	30·017	25th	29·778	5th	81·9	77·7	86·5	+0·6	76·4	−0·2	81·4	+0·2	10·1	89·6	16th & 22nd.	72·3	9th & 27th.
	Gangtok	5,760	24·354	−·161	24·309	24·522	24th	24·196	12th	58·7	55·6	70·7	−0·1	55·7	+7·3	63·2	+3·6	15·0	74·3	7th, 8th & 29th.	50·0	28th
	Gartok (e)	15,100																				
	Kashgar (e)	4,255	25·595	−·135		25·780	3rd	25·362	14th	52·2	46·2	72·0	+1·4	43·1	+0·2	57·5	+0·8	28·9	79·3	7th & 8th.	36·3	16th
	Kabul (e)																					
	Meshed	3,104								47·2	44·2*	75·9	+5·9	42·4	−0·1	59·2	+2·9	33·5	87·6	11th	28·8	15th
	Jask	13	29·913	−·022	29·879	30·061	25th	29·753	1st	79·8	75·8	92·6	+2·3	73·1	−2·8	82·8	−0·3	19·5	97·4	8th	67·3	28th
	Muscat†	20	29·931	−·009	29·900	30·092	25th	29·791	1st	85·1	75·4	95·4	+7·2	80·9	+0·3	88·2	+3·7	14·5	104·7	14th	76·0	28th
	Bushire	14	29·913	−·032	29·889	30·039	29th	29·739	5th	79·7	75·4	89·9	+2·3	73·6	+2·3	81·8	+2·3	16·3	94·5	8th	67·4	25th
	Busrah	25																				
	Ispahan (e)	*5,817*	24·338	−·142		24·460	24th	24·210	8th	53·4	47·6	79·6	+2·2	49·3	+3·4	64·4	+2·9	30·3	87·4	3rd & 4th	41·2	14th
	Tehran (e)	*4,002*	25·770	−·270		25·920	14th	25·620	5th & 12th.	60·7	53·1	74·2	−2·4	54·4	+2·4	64·3	0	19·8	88·5	4th	45·0	14th
	Baghdad	125	29·790	−·067	29·893	29·924	13th	29·674	7th	68·1	56·3	91·2	−1·1	66·2	+3·2	78·7	+1·1	25·0	99·9	7th & 9th	57·2	14th
	Aden	94	29·856	−·018	29·882	30·047	26th	29·708	1st	80·8	75·4	88·0	−1·6	78·5	+0·7	83·2	−0·5	9·5	94·7	2nd	72·9	24th
	Zanzibar	72	30·026	+·008	30·025	30·088	13th	29·908	28th	78·0	73·9	82·8	−0·6	74·8	−0·5	78·6	−0·5	8·0	85·8	15th	72·9	10th & 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.
(e) Aneroid.

* Mean of 29 days.
† „ „ 30 „

B—*concluded.*

stations in India, etc., in October, 1920—*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 hours.	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 1920.	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.*
																44	− 4	·209	0	0·6	−0·2	1	−0·5	0·23	0·92	−0·69	54·94	50·80	+ 4·14	0·19	Simla.
3	0	9	16	1	0	0	2	0	N 75° E	N 39° E	7·3	4·5	+2·8	72	+40	51	− 9	·259	−·019	0·4	−0·5	0	−1·4	0	0·83	−0·83	31·17	57·31	−26·14	0	Chakrata.
13	0	0	2	1	1	1	11	2	S 84° W		5·8			33		54	− 2	·240	−·014	0·6	−0·7	1	−0·4	0·23	1·34	−1·11	39·89	42·53	−26·30	0·21	Mukteswar.
27	0	3	0	1	0	0	0	0	N 63° E	N 73° E	1·4	2·4	−1·0	10	−22	85	− 1	·367	−·010	5·6	+0·3	4	−0·5	2·15	4·45	−2·30	101·98	116·91	−14·93	0·60	Darjiling.
																86		·500		3·6		?		?						?	Kalimpong.
26	0	1	3	0	0	0	1	0	N 75° E		0·5			10		76	− 3	·461	−·005	3·9	+0·5	14	+4·4	4·12	6·39	−2·27	54·90	75·24	−20·34	0·64	Shillong.
20	0	4	1	1	1	4	0	0	S 45° E		1·7			10		78	− 3	·524	+·006	3·5	−0·9	9	+0·3	10·52	19·47	−8·95	329·64	376·81	−47·17	5·05	Cherrapunji.
0	2	4	2	5	1	4	8	5	N 81° E		5·3			19		61		·477		1·4		0		0			52·89			0	Netarhat.
27	0	1	1	0	1	1	0	0	S 45° E		0·4			3		95	+ 5	·599	−·045	6·1	+1·1	8	−4·0	6·61	7·71	−1·10	39·81	53·30	−13·49	1·66	Maymyo.
13	1	0	3	3	0	1	6	4	N 77° W	N 34° E	2·1	2·3	−0·2	13	+ 2	59	+ 2	·480	+·046	0·1	−2·3	0	−2·9	0	1·92	−1·92	53·42	72·54	−19·12	0	Pachmarhi.
13	0	4	1	0	3	5	3	2	S 60° W	N 27° W	3·1	3·6	−0·5	13	− 5	30	−14	·269	−·069	0	−1·1	0	−0·8	0	0·68	−0·68	40·25	56·93	−16·68	0	Mount Abu.
4	2	7	6	0	0	3	5	4	N 7° E	N 27° E	3·5	3·1	+0·4	27	+ 2	89	0	·582	−·001	7·5	+0·9	9	−4·2	4·88	8·74	−3·86	130·63	119·22	+11·41	1·78	Mercara.
5	1	4	10	4	3	2	1	1	S 78° E		3·0			43		77	− 1	·380	+·007	6·7	+0·7	14	−0·9	5·91	8·78	−2·87	32·45	43·85	−11·40	1·13	Ootacamund.
1	12	3	2	1	1	1	5	5	N 16° W		7·5			53		80	− 4	·374	−·008	5·6	+0·4	12	−3·9	5·24	10·66	−5·42	33·76	39·16	− 5·40	0·97	Kodaikanal.
																															Extra India.
11	1	0	0	5	1	1	1	11	N 59° W					23						7·2	+1·5	14	+2·4	9·70	7·60	+2·10	41·61	39·55	+ 2·06	3·15	Singapore.
0	0	25	1	2	1	0	0	2	N 49° E					82								7	−10·9	2·13	15·80	−13·67	46·46	64·57	−18·11	0·43	Penang.
3	0	0	0	0	1	23	4	0	S 50° W	S 45° W	5·5	6·2	−0·7	86	+11	84	− 2	·806	−·061	5·8	+2·2	5	−6·2	1·73	8·01	−6·29	10·83	22·59	−11·76	0·67	Trincomalee.
21	0	1	1	2	0	6	0	0	S 13° W	S 41° W	3·2	5·4	−2·2	17	−25	93	+ 9	·846	−·022	7·1	+0·8	18	+1·8	14·87	14·74	+0·13	46·12	46·63	− 0·51	3·21	Colombo.
5	2	0	0	0	0	6	17	1	S 83° W		8·9			72		88		·813		4·0		5		1·63	4·80	−3·17	8·12	15·49	− 7·37	0·43	Hambantota.
0	6	1	0	0	1	6	10	7	N 72° W	N 78° W	5·3	5·4	−0·1	65	+ 8					5·2	0	14	+ 2·3	10·19	8·64	+1·55	58·69	47·47	+11·22	4·15	Minicoy.
1	9	1	0	3	1	1	5	10	N 38° W		13·5			52		82	+ 2	·890	+·020	6·2	−0·1	11	+ 2·1	9·40	5·83	+3·57	39·18	48·10	− 8·92	2·00	Amini Divi.
29	0	1	0	0	1	0	0	0	S 75° E		5·8			4		83	− 1	·414	−·040	4·6	+1·2	8	− 1·1	5·07	6·03	−0·96	110·95	112·66	− 1·71	1·77	Gangtok.
																									0			2·53			Gartok.
30	0	0	1	0	0	0	0	0	E	N 38° W	0·5	1·2	−0·7	3	− 9	64	+ 8	·255	+·049	2·1	−0·2	0	0	0	0·02	−0·02	4·99	2·10	+2·89	0	Kashgar.
										S 10° E															0·56			1·85			Kabul.
25	0	0	0	3	2	0	0	1	S 23° E		1·4			10		73*	+12	·248*	−·004	2·3	+0·1	1	−0·1	0·20	0·42	−0·20	4·73	2·11	+ 2·62	0·11	Meshed.
5	3	4	10	2	0	1	2	4	N 53° E	N 56° E	5·9	7·7	−1·8	37	+ 4	82	+13	·841	+·089	0·8	−0·1	1	+0·8	0·11	0·06	+0·05	0·11	0·14	− 0·03	0·11	Jask.
18	2	0	0	2	0	1	0	7	N 41° W	N 76° W	1·7	2·7	−1·0	23	− 5	64	− 2	·756	+·001	1·2	+0·6	0	−0·1	0	0·08	−0·08	0	0·25	− 0·25	0	Muscat.
7	6	11	2	0	1	0	1	3	N 25° E	N 67° E	5·4	4·5	+0·9	56	− 2	81	+16	·827	+·198	0·6	−0·5	0	−0·2	0	0·09	−0·09	0	0·12	−0·12	0	Bushire.
																									0·07			0·52			Busrah.
27	1	0	0	1	0	0	2	0	N 73° W	N 74° W	4·5	2·1	+2·4	4	−20	66	+ 8	·275	+·002	0·7	−0·6	0	−0·5	0·01	0·15	−0·14	0·05	0·47	− 0·42	0·01	Ispahan.
21	3	6	0	0	0	1	0	0	N 23° E	N 18° E	3·5	2·1	+1·4	26	+ 3	60	+11	·321	+·062	3·3	+1·5	2	+1·0	0·77	0·33	+0·44	2·61	1·17	+ 1·44	0·23	Tehran.
3	6	5	6	1	2	0	5	3	N 19° E	N 6° W	4·0	2·0	+2·0	30	− 3	44	− 8	·201	−·075	4·8	+3·3	1	+0·7	0·36	0·08	+0·28	0·62	0·33	+0·29	0·36	Baghdad.
5	3	19	2	0	1	1	0	0	N 45° E	N 78° E	1·1	9·3	−8·2	69	+ 1	77	+ 7	·810	+·035	2·9	+0·6	0	−0·2	0	0·10	−0·10	0·16	0·58	−0·42	0	Aden.
10	0	0	0	3	10	7	1	0	S 13° W	S 20° E	3·2	3·7	−0·5	58	−14	82	0	·780	−·010	6·5	+0·3	8	+2·4	5·88	3·39	+2·49	24·91	22·47	+2·44	1·96	Zanzibar.

* Mean of 29 days.
† „ „ 30 „

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in October, 1920.

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.																								
6	Bishnath	75·9	72·8	86·9	−0·4	59·5	−6·1	73·2	−3·3	27·4	93·9	4th	50·9	31st	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	79·6	74·0	96·3	+7·9	63·5	−5·6	79·9	+1·1	32·8	99·4	4th	59·6	29th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	73·1	71·4	89·1	+1·9	62·1	−7·8	75·6	−2·9	27·0	99·8	11th	50·9	31st	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	72·9	70·6	86·9	+3·4	67·9	+0·4	77·4	+1·9	19·0	94·3	3rd	58·2	31st	...	...	...	...	...	...	...	...	...	...	...
	Dikom	73·0	70·9	86·3	+0·3	67·8	+0·2	77·0	+0·3	18·5	93·6	4th	58·6	30th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	74·1	73·0	84·7	+0·8	66·4	...	75·5	...	18·3	90·9	4th	56·6	31st	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	74·7	73·5	88·5	+0·5	72·4	+1·1	80·5	+0·8	16·1	92·2	26th	66·6	28th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	73·3	71·5	85·4	−1·3	68·1	−1·9	76·7	−1·6	17·3	91·3	3rd	59·3	31st	...	...	...	...	...	...	...	...	...	...	...
	Lumding	75·0	72·9	86·5	...	69·2	...	77·9	...	17·3	90·9	2nd	60·5	31st	...	...	...	...	...	...	...	...	...	...	...
	Messa	80·2	74·8	90·7	−0·3	68·8	+1·4	79·7	+0·5	21·9	96·1	4th	52·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	70·1	69·4	86·0	+0·8	66·1	−0·4	76·5	−0·1	20·3	91·0	5th	55·8	31st	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	81·0	69·5	89·8	+1·9	67·4	−5·1	78·6	−2·1	22·4	91·3	5th	65·9	24th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	84·4	77·4	89·4	+0·6	74·3	+1·8	81·9	+1·2	15·1	94·3	4th	66·4	28th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	81·3	77·3	90·2	−2·1	73·2	+1·8	81·7	−0·1	17·0	95·8	4th	68·2	12th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	70·9	69·3	89·5	−1·2	66·6	+1·1	78·1	−0·1	22·9	92·4	11th	58·8	31st	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	78·4	73·7	87·5	−0·8	66·2	−0·1	76·9	−0·5	21·3	91·6	4th & 6th	59·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	79·6	73·1	84·6	−3·9	67·8	+0·4	76·2	−1·7	16·8	89·1	7th	62·0	29th & 31st	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	78·3	74·3	92·2*	...	71·7	...	82·2*	...	20·5	98·8	2nd	67·1	23rd	...	...	...	...	...	...	...	...	...	...	...
	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 October, 1920.

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 1920.	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.
...	...	...	...	...	86	− 5	·769	+·013	...	...	5	−2·8	3·42	5·63	−2·21	79·46	80·82	−1·36	1·75	Bishnath.
...	...	...	...	...	76	− 9	·761	−·013	...	...	6	−1·5	2·56	4·65	−2·09	56·39	74·55	−18·16	1·04	Borjuli.
...	...	...	...	...	93	+ 1	·748	−·073	...	...	5	−3·2	4·05	6·73	−2·68	95·97	90·55	+5·42	1·70	Chandkhira.
...	...	...	...	...	89	− 4	·725	−·022	...	...	7	−0·3	3·83	4·64	−0·81	70·38	78·14	−7·76	1·81	Doom Dooma.
...	...	...	...	...	89	+ 1	·729	+·008	...	...	5	−3·2	4·40	5·58	−1·18	71·93	84·17	−12·24	1·60	Dikom.
...	...	...	...	...	95	+ 5	·801	+·018	...	...	3	−3·7	0·49	3·40	−2·91	38·27	65·46	−27·19	0·19	Golaghat.
...	...	...	...	...	95	+ 2	·811	+·012	...	...	7	−1·2	11·70	8·15	+3·55	97·37	99·27	−1·90	5·07	Hailakandi.
...	...	...	...	...	91	+ 1	·752	−·025	...	...	6	−0·7	2·36	4·60	−2·24	62·08	66·98	−4·90	1·15	Jorehat.
...	...	...	...	...	90	...	·779	...	...	...	3	−3·1	1·68	4·75	−3·07	30·97	41·42	−10·45	1·16	Lumding.
...	...	...	...	...	77	− 4	·794	+·007	...	...	6	−1·2	2·99	5·04	−2·05	60·09	70·96	−10·87	1·05	Messa.
...	...	...	...	...	96	+ 3	·716	+·073	...	...	6	−0·3	2·39	4·08	−1·69	65·80	68·33	−2·53	0·79	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	5	−1·3	8·22	6·36	+1·86	87·46	78·61	+8·85	2·00	Comilla.
...	...	...	...	...	53	−32	·560	−·325	...	...	3	−4·2	3·03	6·69	−3·66	65·48	72·89	−7·41	1·31	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	5	−0·2	5·25	4·54	+0·71	63·32	60·77	+2·55	2·05	Faridpur.
...	...	...	...	...	72	− 8	·844	+·007	...	...	5	−1·1	6·01	4·84	+1·17	52·41	57·05	−4·64	3·02	Goalundo.
...	...	...	...	...	83	+ 4	·887	+·052	...	...	9	+4·2	9·20	4·42	+4·78	55·08	53·38	+1·70	6·10	Pabna.
...	...	...	...	...	...	...	...	...	...	...	5	+0·4	5·81	4·59	+1·22	51·04	57·74	−6·70	1·72	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	5	+1·0	3·80	3·10	+0·70	39·46	50·34	−10·88	1·61	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	6	+2·4	5·49	3·69	+1·80	46·36	49·09	−2·73	3·38	Malda.
...	...	...	...	...	...	...	...	...	...	...	5	+1·0	17·55	4·34	+13·21	92·91	74·77	+18·14	9·14	Rangpur.
...	...	...	...	...	92	+ 2	·693	−·072	...	...	8	+2·0	4·08	5·13	−1·05	118·12	143·29	−25·17	1·44	Dam Dim.
...	...	...	...	...	78	− 3	·775	−·046	...	...	9	+2·3	10·10	6·15	+3·95	146·71	135·32	+11·39	3·94	Kalchini.
...	...	...	...	...	73	− 7	·729	+·004	...	...	6	−1·9	4·29	7·52	−3·23	126·10	144·84	−18·74	1·10	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	8	+3·1	16·16	6·97	+9·19	208·99	134·52	+74·47	5·60	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	6	+1·4	5·34	4·03	+1·31	46·25	51·10	−4·85	3·04	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	2	−1·9	0·96	2·53	−1·57	46·09	50·29	−4·20	0·75	Bankura.
...	...	...	...	...	82	...	·793	...	3·3	...	1	−2·4	0·35	2·25	−1·90	38·01	47·65	−9·65	0·17	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	2	−1·9	0·58	2·69	−2·11	41·14	48·51	−7·37	0·36	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−2·4	0·14	2·04	−1·90	45·51	46·21	−0·70	0·08	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−2·5	0	2·65	−2·65	38·24	47·10	−8·86	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−2·6	0	2·55	−2·55	50·32	52·71	−2·39	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−2·5	0	2·24	−2·24	38·65	39·94	−1·29	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	4	+1·0	1·65	2·48	−0·83	51·49	42·25	+9·24	0·90	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−2·6	0	2·01	−2·01	28·86	39·08	−10·22	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Debra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
13	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	74·6	64·6	91·7	...	62·3	...	77·1	...	29·4	94·8	2nd	54·9	31st	31	0	0	0	0	0	0	0	0	Calm	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	77·1	72·2	90·8	...	72·1	...	81·4	...	18·7	97·8	1st	67·3	27th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	81·0	77·0	91·7	...	75·2	...	83·4	...	16·5	98·7	13th	67·4	14th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	70·2	66·4	83·2	...	63·5	...	73·3	...	19·7	88·2	3rd & 16th.	57·3	19th	...	...	...	...	...	...	...	...	...	...	...
	Bay Stations.																								
1	Car Nicobar	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	74·9	60·4	91·9	...	70·2	...	81·0	...	21·7	93·0	1st	64·7	28th	1	14	12	3	0	0	0	0	1	N 26° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	46·2	36·5*	62·5	...	27·1	...	44·8	.	35·4	7 3·9	13th	·5	22nd & 31st.	11	0	0	0	12	0	4	0	4	S 18° E	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	73·3	65·3	87·0	+0·6	67·1	-0·3	77·1	+0·1	19·9	89·3	7th	63·1	28th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	65·6	64·9	73·2	+2·4	60·7	+1·2	66·9	+1·8	12·5	77·1	1st	55·6	30th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	.	...	...	...	...	...
	Poo	...	...	69·8	+4·2	42·8	+1·2	56·3	+2·7	27·0	77·0	13th	39·0	27th	8	1	2	3	4	5	7	0	1	S 11° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	73·3	+2·3	37·0	-0·2	55·1	+1·1	42·3	86·8	14th	25·0	16th	...	...	...	...	...	...	...	...	...	...	...

* Mean of 30 days.

C—*continued.*

and fifth class stations in India, etc., in October, 1920—*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 1920.	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	26·88	28·21	−2·33	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	1	−0·3	0·57	0·90	− 0·33	66·92	75·62	−8·70	0·49	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	1·18	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·51	− 0·51	22·31	22·05	+0·26	0	Udaipur.
																				XII.—Central Provinces.
0·5	...	...	(a)	...	57	...	·490	...	1·7	...	0	−2·4	0	1·44	− 1·44	25·96	36·10	−10·14	0	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−3·2	0	2·22	− 2·22	10·08	30·89	−20·81	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	10	+0·6	5·39	7·43	− 2·04	7·27	11·63	−4·36	1·06	Tinnevelly.
...	...	...	...	...	79	...	·726	...	2·5	...	6	+1·0	2·44	2·95	− 0·51	13·76	21·00	−7·24	1·30	Anantapur.
...	...	...	...	...	83	...	·872	...	1·1	...	6	−1·0	5·23	4·95	+ 0·28	24·17	28·23	−4·06	2·50	Guntur.
...	...	...	...	...	82	...	·608	...	...	...	3	...	3·63	...	...	45·75	...	...	3·00	Koraput.
																				Bay Stations.
...	...	...	...	...	...	...	...	...	...	...	14	−0·4	10·95	11·06	− 0·11	52·46	69·62	−17·16	2·25	Car Nicobar.
																				Kashmir.
...	...	...	84	...	40	...	·348	...	0·3	...	0	−2·0	0	0·69	− 0·69	20·25	30·21	−9·96	0	Jammu.
...	...	...	...	...	...	...	...	...	...	...	6	+1·1	4·35	2·04	+ 2·31	20·36	20·83	−0·47	2·52	Sonamarg.
...	...	...	29	...	38*	...	115*	...	1·5	...	3	+2·9	1·58	0·07	+ 1·51	2·39	1·77	+0·62	1·08	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0·02	0·12	− 0·10	5·75	6·45	−0·70	0·02	Harnai.
																				Hill stations exclusive of Kashmir.
...	...	...	...	...	76	+8	·624	−·021	...	...	8	+1·2	4·61	7·20	−2·59	105·06	130·37	−25·31	1·25	Panighatta.
...	...	...	...	...	97	+18	·609	+·132	...	...	5	−1·8	1·71	6·96	−5·25	110·43	151·24	−40·81	0·51	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	9	−3·5	2·55	5·81	−3·26	119·75	137·04	−17·29	0·35	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	11	+1·4	3·52	3·97	−0·45	44·12	46·00	−1·88	0·56	Lachung.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	44·16	...	...	0	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	1	−0·4	0·10	0·90	−0·80	61·29	83·28	−21·99	0·10	Mussooree.
...	...	...	32	...	...	...	...	...	1·1	−0·4	0	−0·7	0	0·34	−0·34	4·63	3·30	+1·33	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	2	+0·7	0·40	0·55	−0·15	4·82	8·88	−4·06	0·22	Kailang.
...	...	...	...	...	...	...	...	...	0·7	...	0	−0·5	0	0·21	−0·21	0·01	0·65	−0·64	0	Pishin.

* Mean of 30 days.

(a) Indeterminate.

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.																								
	Chumbi . . .	39·8	42·0*	57·1	...	34·6	...	45·8	...	22·5	61·1	12th	20·5	23rd	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	85·1	71·6	100·2	...	72·1	...	86·1	...	28·1	109·0	4th	64·0	14th	0	11	0	0	0	15	1	3	1	S. 47° W.	...

* Mean of 2 2days.

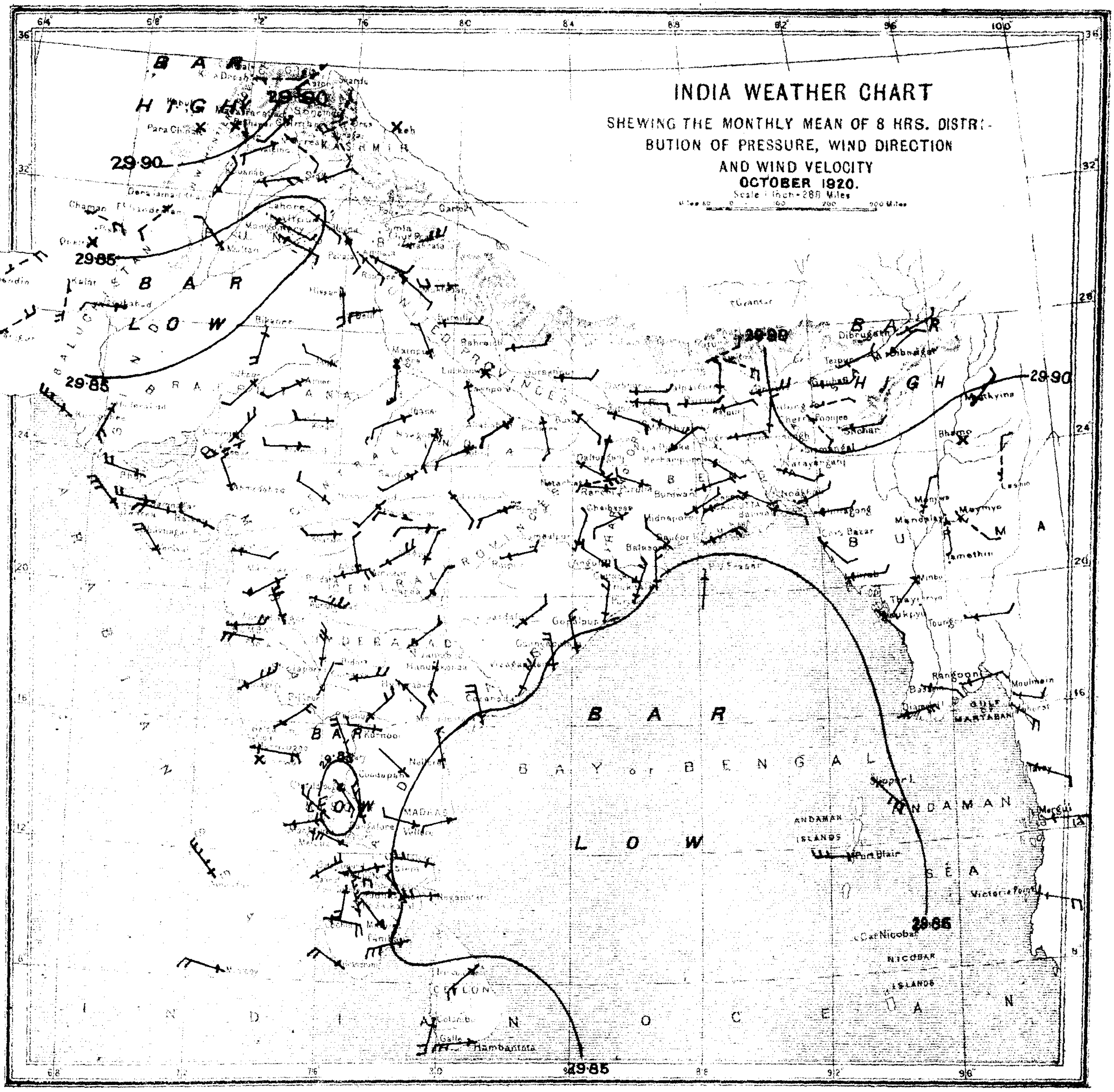
C—*concluded.*

and fifth class stations in India, etc., in October, 1920—*concluded.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									
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 Oct. 1920.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
																				Extra India.
...	...	...	...	...	89*	...	·257*	...	3·0	...	0	−3·5	0	1·65	−1·65	19·78	26·45	−6·67	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	10	+5·7	5·06	2·26	+2·80	31·13	30·80	+0·33	0·95	Pemba.
...	...	...	20	...	54	...	·602	...	...	...	0	...	0	...	...	0	...	...	0	Abadan.

* Mean of 22 days.

SGPI-21-IV-5-(11)—8-2-23—325.

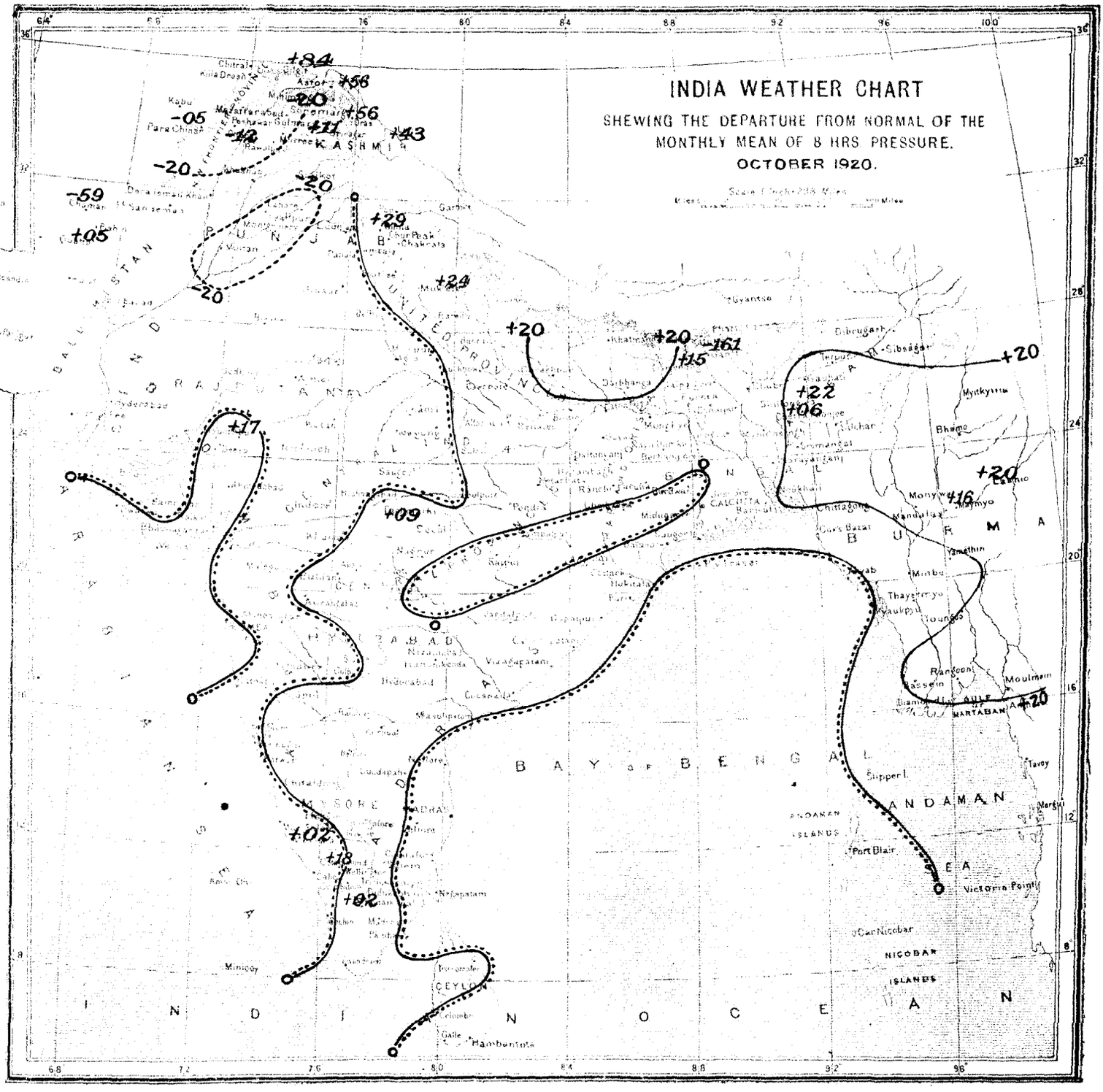


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

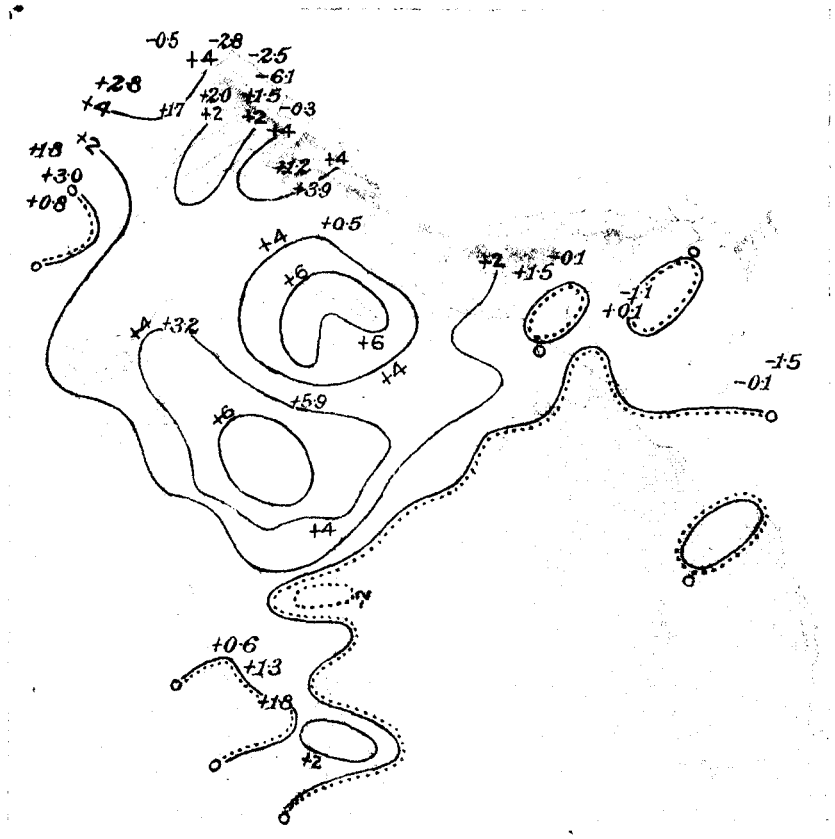


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

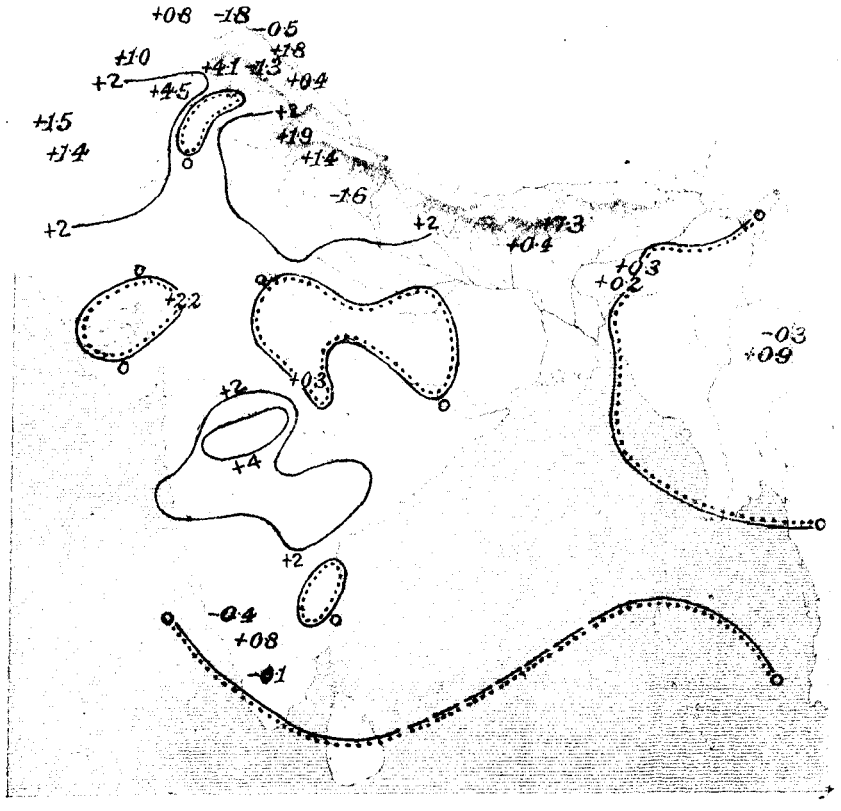


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MEAN TEMPERATURE.

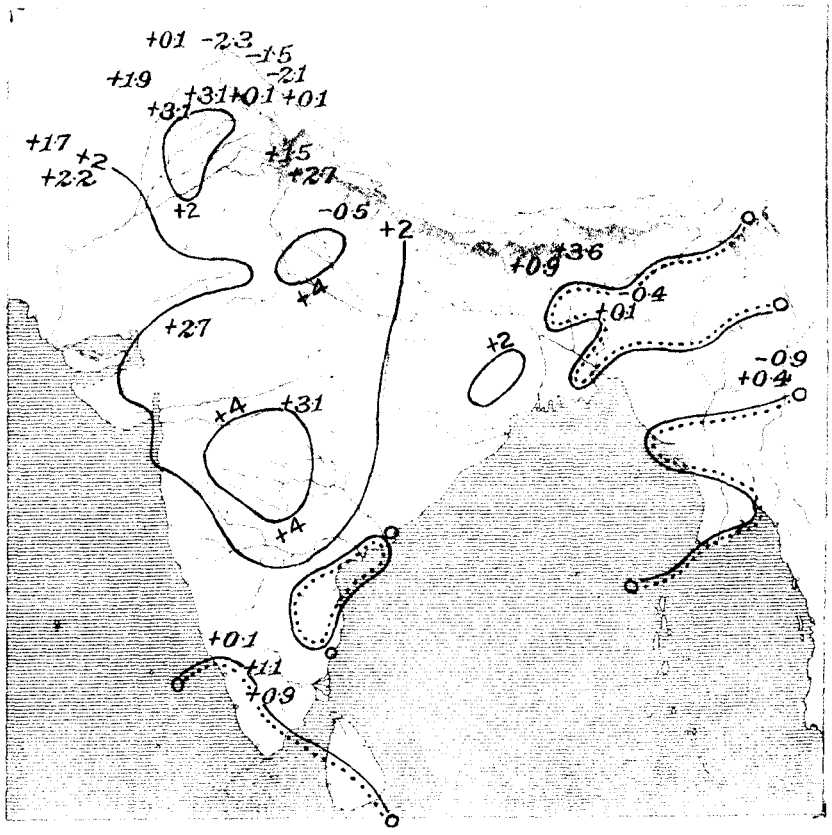


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

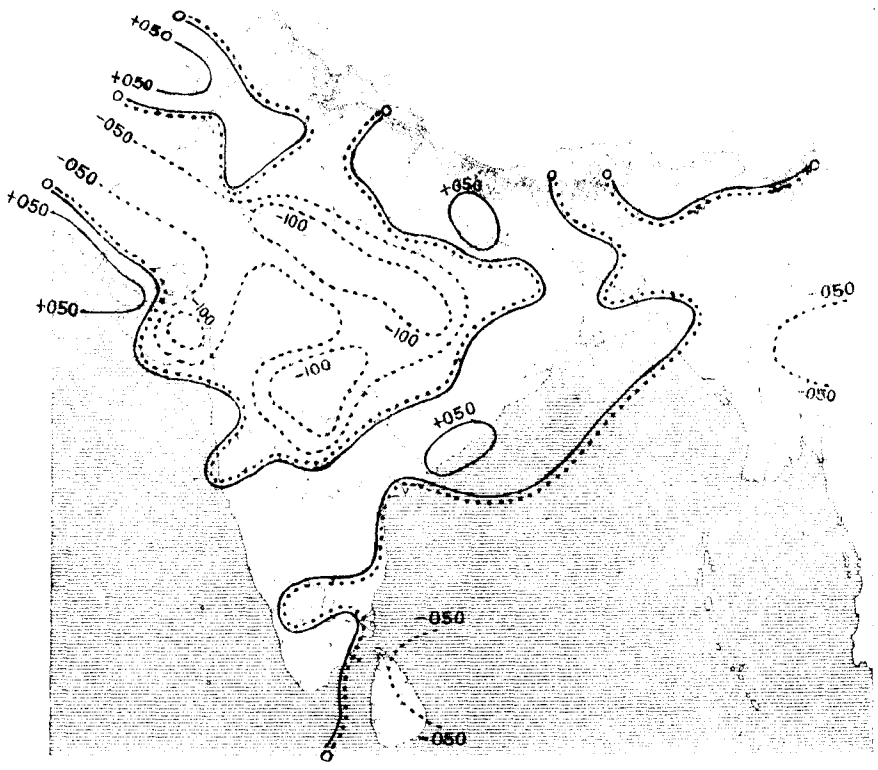


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

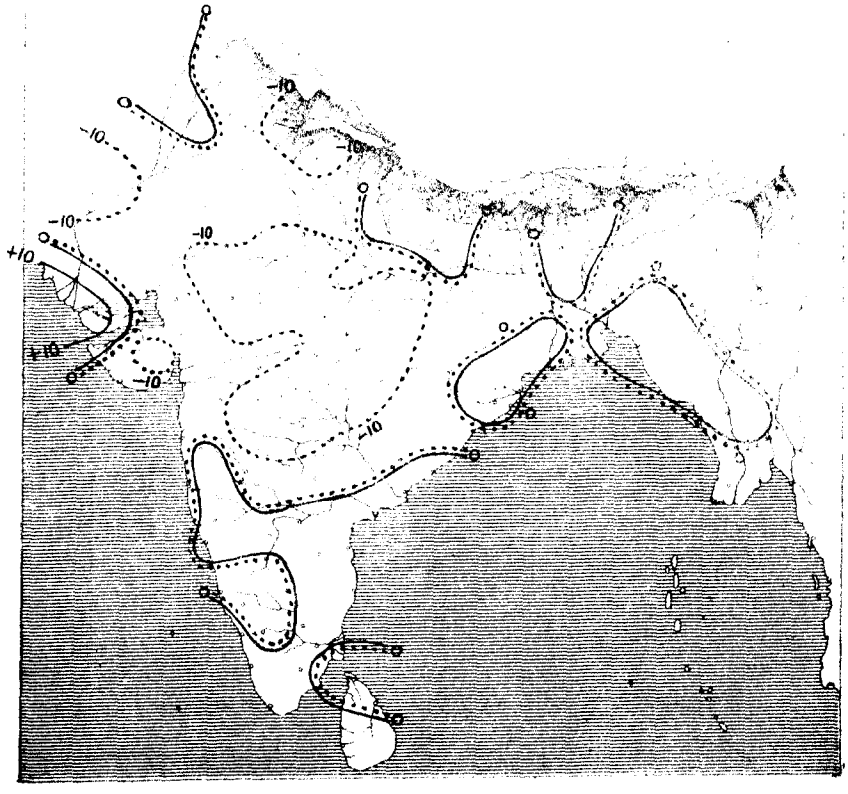


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

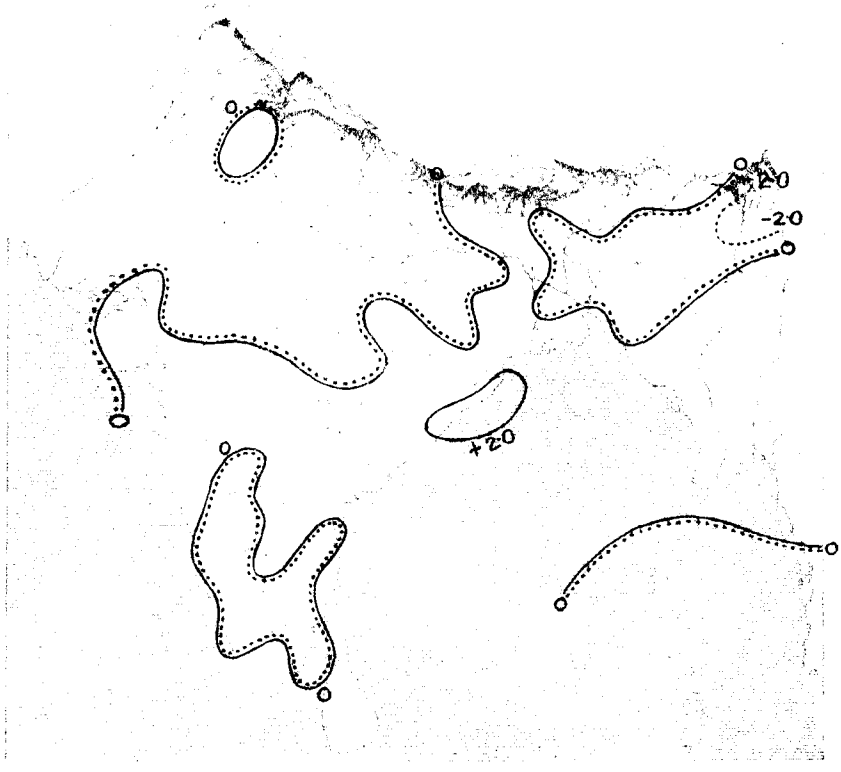
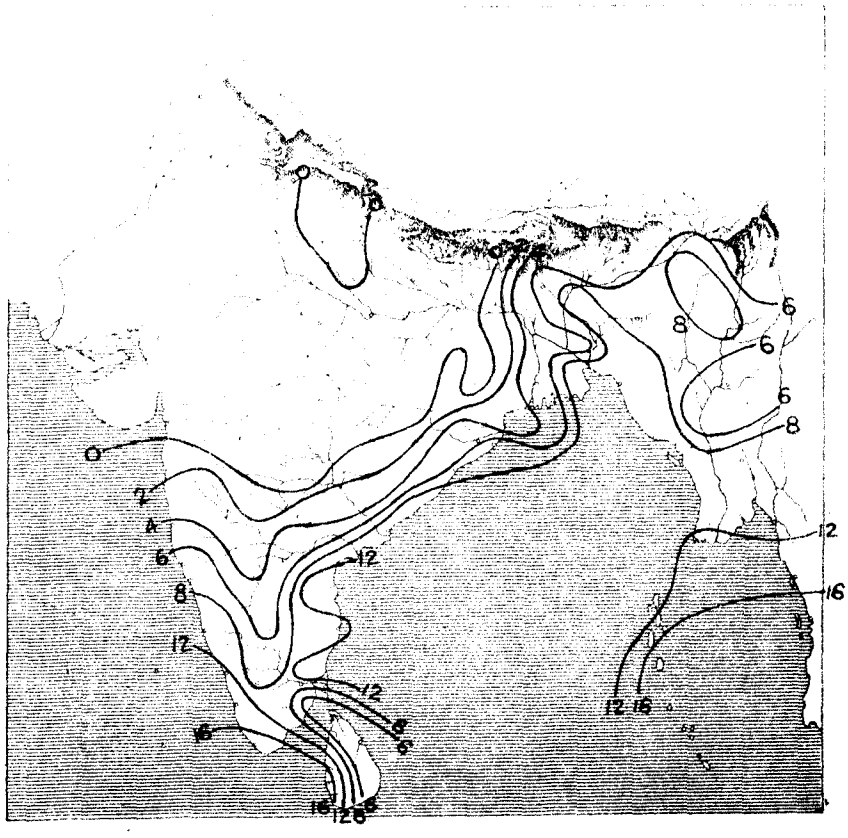
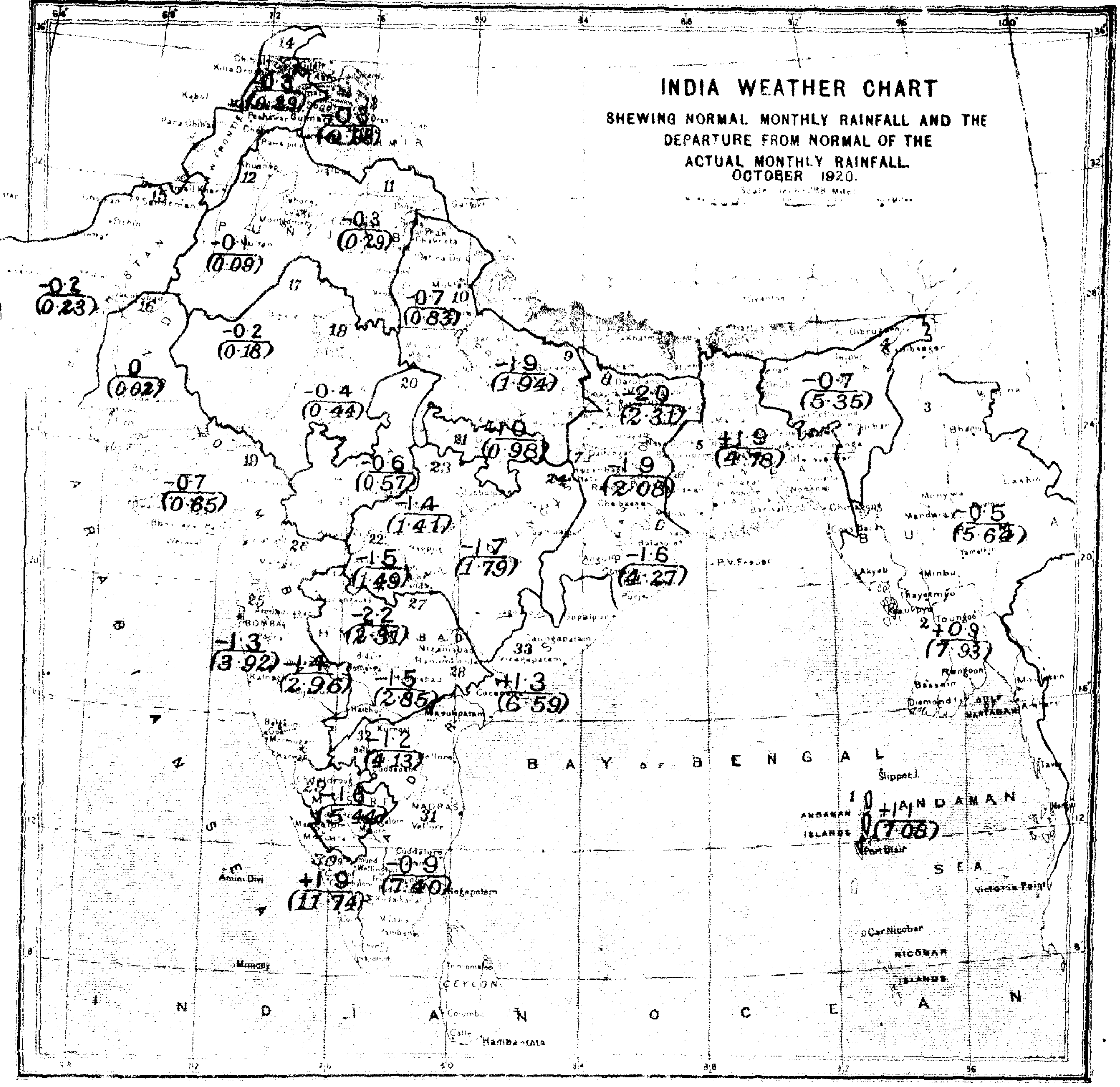


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)





The country is divided into 33 areas as shown 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, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of November, 1920, is based on observations taken daily at 8 hrs. at 212 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, 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 was remarkably active and produced abnormally heavy rain in the south of the Peninsula. Over the rest of the country with the exception of the Bay Islands and Lower Burma weather was unusually dry.

The depression that lay in the centre of the Bay at the close of October moved slowly northwards and disappeared on the 4th in the north of the Bay without crossing the coast. Another depression formed to the south-east of Ceylon on the 20th and extending northwards over Ceylon and the south-west of the Bay persisted there till the 26th. It had the effect of concentrating rainfall in south-east Madras, very heavy rain falling on the coast from Pamban to Nellore.

In the Arabian Sea a storm formed on the 20th with centre about lat. 10½° N. and long. 65° E.; it moved slowly westwards with increasing intensity, and on the 22nd its centre was near lat. 10½° N., long. 63° E. During the next three days its centre followed an unusual S-shaped course moving slowly first south, then east, then south and finally back to west. After the 25th it began to weaken and move more rapidly, and disappeared on the 28th in about lat. 10° N., long. 58° E. Throughout its life it was far from the land, and had no effect on the weather in the Peninsula.

Four winter depressions passed across the extreme north of India; but the associated precipitation was very small, and was confined to parts of Kashmir and the hills of the North-West Frontier Province.

The total rainfall of the month was largely above normal in Malabar and south-east Madras. It was normal in the Bay Islands and in slight to moderate defect in Burma, Mysore, the Madras Deccan and the Madras Coast North. The rest of the country with the exception of parts of north-east India, Bombay and Kashmir was entirely rainless.

The distribution of the other climatic elements followed that of rainfall. Cloud proportion was considerably higher than usual in the Peninsula, but was low in Bengal and the greater part of northwest India. Both absolute and relative humidities were above normal in the south of the Peninsula, but below it in Sind, Rajputana, Bombay, Central India, the Central Provinces and Hyderabad; while relative humidity alone was in defect in Bihar and Orissa, the United Provinces and the southwest Punjab. Maximum temperature was above normal except in Burma, northeast India and the southern half of the Peninsula; minimum temperature was above normal along the western Frontier and in Mysore and Hyderabad.

Barometric pressure averaged over the plains of India was 0·032″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar observations.*—The weather during the month was very unfavourable for solar work, the sky being completely covered by cloud from the 18th to 29th inclusive. The sun was examined for spots and faculæ on 14 days and complete prominence observations were recorded on 9 days.

Sunspots.—Seven new groups were recorded. The mean daily number was 1·9 and the average life of a spot was 5·7 days. They were distributed in latitude as follows :—

TABLE 1.

—	0°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	2	2	10·5°	2° & 20°
South	0	3	11·0°	10° & 12°

Prominences.—26 prominences with a height of 1′ or more and 3 metallic prominences were recorded. The highest prominence of the month was recorded on the 11th and was only 110″ high.

Magnetic disturbances.—"Moderate" disturbances were registered on the 1st, 4th to 6th, on the 12th, 16th to 18th, 21st to 22nd and 26th to 27th.

T. ROYDS,

Acting 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	17·6	1	2·8
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance Δ (Km.).	Remarks.
1920.		h. m. s.						
Nov. 3rd	e P	15 55 30	...	...	...	...	...	
	e L	16 07 48	...	...	...	...	...	
	M	16 08 48	...	...	40	...	...	
	F	16 17 00	...	...	...	...	...	
Nov. 13th	e P	19 34 06	...	...	...	...	...	
	F	19 37 12	...	...	...	...	...	Widening of line.
„ 26th	e P	9 26 54	...	...	...	...	...	
	F	9 29 00	...	...	...	...	...	Widening of line.

A. A. NARAYANA AIYAR,

Acting Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of November, 1920, the traces showed 7 calm days, 22 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, 9th, 10th, 24th and 30th.

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	C	18	S	26	M
3	C	11	C	19	C	27	S
4	S	12	S	20	S	28	S
5	S	13	S	21	S	29	S
6	S	14	S	22	S	30	C
7	S	15	S	23	S		
8	S	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° 18′ 23″.
Horizontal force	0·36930 C. G. S. unit.
Vertical force	0·17171 C. G. S. „
Inclination	24° 56′·2.
Horizontal force range	·00044 C. G. S. unit.
Horizontal force summed range	·00268 C. G. S. „
Declination range	1′·6.
Declination summed range	7′·4.

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

No disturbance was recorded during the month of November 1920.

SHAMSHAD ALI KHAN,
for *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 4.

	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.
1920.		h. m. s.						
Nov. 14th	P	6 21 36	?	...	...	...	...	
	S	6 22 36	?	...	...	...	...	
	L	6 23 36	3	...	...	...	...	
	F	6 48 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 5.

	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.
1920.		h. m. s.						
Nov. 13th	e	18 25 48	...	...	...	...	...	
	F	18 34 18	...	...	...	...	...	Tremors.

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

TABLE 6.

Place at which felt.	Date.	G. M. T. of earthquake.	Duration.	Intensity Rossi-Forel scale.	No. of shocks.	REMARKS.
	1920.	h. m.	Sec.			
Drosh	Nov. 3rd	16 45	90	7	2	
Mymensingh	„ 9th	20 55	1	6	1	
Akyab	„ 16th	6 49	2	6	1	
Mymensingh	„ 17th	2 55	1	6	1	
Srinagar (Kashmir)	„ 19th	9 30	3	6	1	
Poo (Bashahr State)	„ 24th	5 30	2 or 3?	4	1?	

S. SITARAMAYYA,
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 two representative stations.

TABLE 7.

—	Mauritius.	Zanzibar.	Seychelles.
Departure from normal of mean pressure in inches.	—·021	—·005	Observatory temporarily closed
Actual mean wind direction . .	S 83° E	S 27° E	
Normal mean wind direction . .	S 85° E	S 45° E	
Actual mean wind velocity (miles per diem).	199	50	
Normal mean wind velocity (miles per diem).	182	82	
Rainfall departure from normal in inches	—1·36	—6·28	

Depressions and cyclonic storms.

8. Four winter disturbances passed across the extreme north of India and affected the weather there on the 11th-12th, 17th-18th, 21st-23rd and 29th-30th. The third one gave no rain at all, while the other three caused a few falls in Kashmir and the hills of the North-West Frontier Province.

An account of the first depression of the month in the Bay which disappeared on the 4th will be found in the Monthly Weather Review for October.

The second depression formed to the south of Ceylon on the 20th. It moved in a northeasterly direction during the day, and on the morning of the 21st its centre lay to the east of the island. It intensified without much change of position during the next 24 hours. The central area then moved westwards and crossing the island was situated to the west of Colombo during the night of the 22nd and the morning of the 23rd. Instead of continuing its westward motion, the centre shifted eastwards after noon of the 23rd and was again in the Bay on the morning of the 24th. It weakened slowly during the next two days and disappeared on the 27th. It concentrated the rainfall to an unusual extent to south-east Madras, and very heavy rain fell in the coast districts from Pamban to Nellore. Negapatam had 22″ and Cuddalore 20″ between the 24th and 28th. Cheyur had 23″ in the 48 hours ending 8 A.M. of the 26th and Tranquebar 11″ on the 24th. The rough weather associated with this depression is reported to have caused some damage in the hill districts of Ceylon. An account of the depression, as it affected Ceylon, is given in an appendix to the Report on the Colombo observatory for the year 1920.

Storm of 20th-28th in the Arabian Sea.—Weather was unsettled in the southeast Arabian Sea from the 16th, and a low pressure area gradually developed to the west of the Laccadives and Maldives where the usual northerly winds were replaced by winds from the southeast. A closed circulation was completed by the morning of the 19th. The depression continued to develop and probably became a storm of slight intensity towards the evening of the 20th with centre near lat. 10½° N., long. 65° E. Thence it moved in a westerly direction and with increasing intensity; on the morning of the 21st its centre was near lat. 10½° N., long. 64° E. The S.S. *Mundra* bound from Aden to Colombo encountered the storm on the evening of the 21st, experiencing a moderate northerly gale from 16 hrs. to 21 hrs. and a light wind from midnight to 2 hrs. of the 22nd; the barometer reading was lowest at 1·10 A.M., 22nd, when it stood at 29·42″; the wind was again high from about 2 hours and was blowing a fresh gale from south-south-west at 4 hrs. The storm was now moderately severe and moving slowly westwards; on the morning of the 22nd its centre was near lat. 10½° N., long. 63° E. The S.S. *Clan Macquarrie* bound from Suez to Colombo passed about 70 miles to the south of the centre on the night of the 22nd: from 20 hours that day to 4 hours next day it experienced winds of force 10 with seas and swell and continuous heavy rain; its barometer during this period was almost steady at about 29·50″. During the next three days the storm's intensity remained almost undiminished but its centre followed an unusual S-shaped course moving slowly first to south, then east, then south and finally back to west. After the 25th it began to weaken and move more rapidly. On the morning of the 26th its centre was near lat. 9° N., long. 62½° E. and on the 27th it was almost due west of this position in about long. 60½° E. It had by this time weakened considerably, and the S.S. *Umzumbi* bound from Aden to Colombo experienced on the evening of the 26th only a moderate gale with high seas and squalls with heavy rain, when about 60 miles to the north of the centre. Thence the storm travelled in a northwesterly direction, lay

near lat. 10° N., long. 58° E. on the morning of the 28th, and disappeared during the day.

In determining the track of this storm greatest weight has in general been given to the observations of eastward and northward bound vessels, as their positions from day to day are less likely to be in error than those of westward bound ships, which were caught in the storm area for three or four days.

An account of this storm has been published by the London Meteorological office in their East Indian Seas chart for April 1922.

It is remarkable that both the depression near Ceylon and the storm in the Arabian Sea should have been active during the same period, 20th to 28th, and that both of them should have moved back in an easterly direction between the 23rd and 25th.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 8.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·031
Assam	—·024
Bengal	—·028
Bihar and Orissa	—·025
United Provinces	—·019
Punjab	—·035
North-West Frontier Province	—·041
Sind	—·035
Rajputana	—·028
Bombay	—·043
Central India	—·029
Central Provinces	—·027
Hyderabad	—·033
Mysore	—·034
Madras	—·041

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

TABLE 9.

HILL STATION.	Departure from normal pressure. A.	PLAIN STATION.	Departure from normal pressure. B.	Departure of pressure difference. B—A.
	"		"	"
Quetta	—·026	Jacobabad	—·033	—·007
Leh	—·009	Lahore	—·044	—·035
Murree	—·005	Peshawar	—·047	—·042
Simla	+·010	Ludhiana	—·030	—·040
Mukteswar	0	Bareilly	—·019	—·019
Darjiling	—·020	Dhubri	—·025	—·005
Mount Abu	—·011	Deesa	—·028	—·017
Pachmarhi	—·030	Khandwa	—·030	0
Kodaikanal	—·028	Madura	—·044	—·016

Temperature.

10. Table 11 gives the actual temperature 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 10.

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	77·8	81·2	6·9	−1·3	+0·5	−1·8
2. Lower Burma	86·5	71·9	79·2	14·5	+0·2	+0·6	−0·4
3. Upper Burma	84·4	61·8	73·1	22·7	+0·8	−2·1	+2·9
4. Assam	83·2	60·3	71·7	22·9	+1·1	−0·9	+2·0
5. Bengal	84·0	64·6	74·3	19·4	+1·0	+0·4	+0·6
6. Orissa	86·1	64·6	75·3	21·6	+1·6	+0·5	+1·1
7. Chota Nagpur	84·5	58·6	71·6	25·9	+2·4	+0·7	+1·7
8. Bihar	84·0	60·1	72·1	23·9	+1·8	0	+1·8
9. United Provinces, East	86·1	56·1	71·1	30·1	+3·0	+0·3	+2·7
10. Do. do., West	86·5	55·9	71·2	30·6	+3·0	+1·3	+1·7
11. Punjab, East and North	84·8	52·9	68·8	31·9	+2·7	+2·4	+0·3
12. Do., South-west	85·9	52·1	69·0	33·8	+1·5	+2·0	−0·5
13. Kashmir	59·1	32·4	45·8	26·7	+1·0	+0·9	+0·1
14. North-West Frontier Province	81·7	50·1	65·9	31·7	+1·8	+2·9	−1·1
15. Baluchistan	74·7	42·4	58·6	32·4	+3·3	+0·5	+2·8
16. Sind	87·3	61·9	74·6	25·4	+1·7	+2·9	−1·2
17. Rajputana, West	90·7	59·1	74·9	31·5	+2·1	+1·9	+0·2
18. Do., East	88·6	56·9	72·7	31·7	+2·2	+0·8	+1·4
19. Gujarat	94·0	64·4	79·2	29·6	+3·0	+1·0	+2·0
20. Central India, West	87·5	56·3	71·9	31·3	+3·3	+1·7	+1·6
21. Do. do., East	85·0	54·5	69·7	30·5	+3·1	+0·9	+2·2
22. Berar	90·2	62·9	76·6	27·4	+4·8	+2·6	+2·2
23. Central Provinces, West	87·1	55·9	71·6	31·2	+2·9	0	+2·9
24. Do. do., East	85·3	57·9	71·6	27·4	+3·2	+0·4	+2·8
25. Konkan	89·9	74·0	82·0	16·0	+1·9	+2·5	−0·6
26. Bombay Deccan	89·0	61·8	75·4	27·1	+3·1	+2·2	+0·9
27. Hyderabad, North	90·2	61·5	75·9	28·7	+4·3	+2·6	+1·7
28. Do., South	89·2	66·6	77·9	22·6	+3·1	+2·6	+0·5
29. Mysore	81·4	64·9	73·1	16·5	0	+2·4	−2·4
30. Malabar	84·9	74·8	79·9	10·1	−1·5	+1·1	−2·6
31. Madras, South-east	83·5	72·8	78·1	10·7	−2·3	+1·1	−3·4
32. Do., Deccan	89·0	69·2	79·1	19·8	+0·9	+2·8	−1·9
33. Do., Coast, North	85·5	71·2	78·3	14·3	+1·0	+1·3	−0·3

TABLE 11.

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

Surface and upper air winds.

11. *Surface.*—There were no noteworthy departures in the mean wind directions.

The following table gives the mean wind velocity and steadiness with their departures from normal:—

TABLE 12.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·1	—0·3	56	+ 6
Assam	2·3	+0·3	35	— 2
Bengal	1·1	—0·5	34	—11
Bihar and Orissa	1·5	—0·3	33	— 4
United Provinces	1·0	—0·2	18	0
Punjab	1·6	+0·4	25	+ 9
North-West Frontier Province	0·3	—0·7	9	— 3
Sind	3·4	—0·3	37	— 3
Rajputana	1·7	—0·3	19	— 4
Bombay	3·4	—1·1	49	— 8
Central India	0·8	—1·3	18	—14
Central Provinces	2·7	+0·5	49	+11
Hyderabad	4·4	—0·1	55	+10
Mysore	4·1	—0·1	55	—15
Madras	3·5	—0·2	51	— 4

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore and Bangalore during the month are given in the following table :—

TABLE 13.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.			
	N	V	v	L	N	V	v	L	N	V	v	L	N	V	v	L
Ground level.	34	1·8	1·0	296	18	1·7	0·6	18	30	0·2	0·1	117	19	3·2	2·3	70
0·5	34	5·1	1·6	315	...	...	...	...	30	5·3	1·0	294	...	...	...	...
1·0	34	4·9	3·5	313	...	...	...	...	30	4·6	2·1	292	19	4·1	2·9	68
1·5	34	6·1	5·1	311	...	...	...	...	30	4·8	2·6	289	19	6·3	5·3	69
2·0	34	7·7	6·3	315	...	...	...	...	30	5·4	3·4	299	16	6·4	5·9	56
2·5	34	8·1	6·5	313	18	5·2	3·4	330	30	5·9	3·8	300	13	6·0	5·0	59
3·0	34	8·1	6·3	311	18	5·2	3·2	305	30	6·0	3·4	298	12	5·5	2·7	50
3·5	32	8·4	6·1	303	18	5·5	2·9	301	30	5·8	3·8	286	10	5·5	0·4	247
4·0	31	9·0	6·7	296	18	6·9	4·5	287	29	6·5	4·9	279	10	5·9	0·6	259
4·5	28	9·9	7·3	293	18	10·1	5·5	279	29	8·6	7·2	275	9	4·9	0·6	183
5·0	28	11·6	8·8	292	17	13·4	11·7	281	30	11·7	10·7	273	9	4·6	2·7	104
5·5	26	13·0	11·1	288	16	17·0	15·3	275	29	13·9	12·8	274	9	5·7	4·5	81
6·0	26	14·2	12·6	288	14	20·0	18·0	276	29	15·9	14·8	275	9	6·6	5·6	87
6·5	25	15·6	14·0	285	10	22·9	20·8	271	25	16·0	14·7	279	9	7·3	5·9	83
7·0	22	18·3	16·4	288	9	27·7	25·4	273	24	18·8	17·8	278	8	8·4	7·1	69
7·5	21	19·4	17·5	287	7	30·2	27·7	271	22	19·8	18·6	277	8	8·3	7·7	78
8·0	20	20·7	18·9	287	5	36·7	35·6	264	20	21·4	20·4	278	8	8·9	8·3	78
8·5	19	22·5	20·6	284	2	38·5	36·8	276	16	20·5	19·7	282	7	8·5	7·5	67
9·0	15	24·5	22·5	284	2	38·3	36·5	277	14	22·0	21·4	278	6	10·0	8·7	63
9·5	11	24·4	23·3	285	1	44·5	44·5	255	13	22·8	21·9	275		9·7	8·1	61
10·0	8	22·6	21·7	284	1	49·0	49·0	255	8	20·5	19·1	281	6	8·7	6·0	63
10·5	6	23·0	21·8	287	...	...	...	...	8	21·7	20·4	282	6	7·2	6·1	69
11·0	4	23·9	22·1	287	...	...	...	...	7	22·4	21·4	286	5	6·8	6·5	82
11·5	3	28·7	27·0	289	...	...	...	...	5	22·0	21·0	283	3	3·5	3·2	99
12·0	2	40·0	37·5	285	...	...	...	...	4	23·1	22·3	288	...	...	...	...
12·5	2	48·0	45·7	287	...	...	...	...	4	25·5	24·3	287	...	...	...	...
13·0	2	53·0	51·1	285	...	...	...	...	2	20·5	19·3	312	...	...	...	...
13·5	1	57·5	57·5	270	...	...	...	...	1	26·5	25·5	285	...	...	...	...

N = Number of flights.
V = Velocity of wind, regardless of direction, metre per sec.
v = Velocity of Resultant Wind, taking account of direction, metre per sec.
L = Direction of Resultant Wind; North Wind = 0° or 360°, East Wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours 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	83	— 2	·694	—·026	4·1	0
Assam	89	— 2	·571	—·015	3·3	—0·2
Bengal	81	— 2	·617	—·007	1·5	—0·5
Bihar and Orissa	70	— 6	·506	—·004	1·5	0
United Provinces	63	— 7	·396	—·016	0·7	—0·1
Punjab	57	— 5	·304	—·008	0·6	—0·6
North-West Frontier Province.	65	— 1	·301	+·012	0·9	—0·9
Sind	51	— 8	·377	—·030	0·4	—0·9
Rajputana	40	—10	·249	—·058	0·8	—0·3
Bombay	53	— 7	·462	—·032	2·1	+0·5
Central India	49	—10	·332	—·056	1·1	0
Central Provinces	45	—16	·318	—·082	1·7	+0·1
Hyderabad	50	—13	·452	—·044	3·4	+1·1
Mysore	81	+ 6	·605	+·048	6·6	+1·6
Madras	83	+ 5	·761	+·040	6·1	+1·7

Rainfall.

13. The total rainfall of the month was 11·38″ above normal in southeast Madras and 5·65″ in Malabar; it was normal in the Bay Islands and in slight defect in Lower Burma. A moderate deficiency was recorded in Mysore, the Madras Deccan and the Madras Coast North, and a large deficiency in Upper Burma, Assam and the Konkan.

There was no rain in the tract of country extending from the northwest frontier to Bihar and Chota Nagpur as well as in Hyderabad and the central parts of the country.

TABLE 15.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			″	″	″	
1. Bay Islands	8·0	6·8	5·61	5·61	0	0
2. Lower Burma	3·0	3·5	2·38	2·65	—0·27	— 10
3. Upper Burma	1·6	2·9	0·67	1·79	—1·12	— 63
4. Assam	0·4	1·5	0·12	0·88	—0·76	— 86
5. Bengal	0	0·9	0·02	0·74	—0·72	— 97
6. Orissa	0·2	1·2	0·09	1·19	—1·10	— 92
7. Chota Nagpur	0	0·9	0	0·52	—0·52	—100
8. Bihar	0	0·6	0	0·39	—0·39	—100
9. United Provinces, East	0	0·4	0	0·20	—0·20	—100

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
10. United Provinces, West	0	0·3	0	0·16	−0·16	−100
11. Punjab, East and North	0	0·3	0	0·14	−0·14	−100
12. Do., South-west	0	0·2	0	0·10	−0·10	−100
13 Kashmir	0·1	1·1	0·03	0·53	−0·50	− 94
14. North-West Frontier Province	0	0·6	0	0·35	−0·35	−100
15. Baluchistan	0	0·9	0	0·36	−0·36	−100
16. Sind	0	0·1	0	0·06	−0·06	−100
17. Rajputana, West	0	0·2	0	0·08	−0·08	−100
18. Do., East	0	0·3	0	0·16	−0·16	−100
19. Gujarat	0	0·3	0	0·20	−0·20	−100
20. Central India, West	0	0·6	0	0·44	−0·44	−100
21. Do. do., East	0	0·6	0	0·39	−0·39	−100
22. Berar	0	0·9	0	0·55	−0·55	−100
23. Central Provinces, West	0	0·8	0	0·58	−0·58	−100
24. Do. do., East	0	0·7	0	0·42	−0·42	−100
25. Konkan	0·3	1·3	0·11	0·86	−0·75	− 87
26. Bombay Deccan	0·1	1·4	0·04	0·86	−0·82	− 95
27. Hyderabad, North	0	1·2	0	0·75	−0·75	−100
28. Do., South	0	1·7	0	0·90	−0·90	−100
29. Mysore	3·1	3·4	1·10	2·12	−1·02	− 48
30. Malabar	1·4	7·8	11·81	6·16	+5·65	+ 92
31. Madras, South-east	15·5	7·8	18·14	6·76	+11·38	+168
32. Do., Deccan	2·3	3·0	0·98	1·99	−1·01	− 51
33. Do. Coast, North	1·8	3·4	1·76	3·41	−1·65	− 48

TABLE 16.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	1·39	2·15	−0·76	− 35
Assam	0·12	0·88	−0·76	− 86
Bengal	0·02	0·74	−0·72	− 97
Bihar and Orissa	0·02	0·61	−0·59	− 97
United Provinces	0	0·18	−0·18	−100
Punjab	0	0·13	−0·13	−100
North-West Frontier Province	0	0·35	−0·35	−100

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0	0·06	−0·06	−100
Rajputana	0	0·14	−0·14	−100
Bombay	0·04	0·65	−0·61	− 94
Central India	0	0·42	−0·42	−100
Central Provinces	0	0·50	−0·50	−100
Hyderabad	0	0·82	−0·82	−100
Mysore	1·10	2·12	−1·02	− 48
Madras	11·01	5·32	+5·69	+107
Mean of India	1·30	1·20	+0·10	+ 8

Snowfall.

I.—PERSIA.

14. *Meshed.*—Snow fell to a depth of 10 inches.

II.—BALUCHISTAN.

Quetta.—No snow fell.

III.—THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wano.*—No snow fell on the south Waziristan hills.

(*b*) *Kurram.*—Light snow fell on one day on the high peaks of Koh-i-Sufed.

(*c*) *Drosh.*—There were four falls on the 13th, 14th, 23rd and 30th. The last two were heavy and covered the greater part of the higher ranges; the depth on the 30th varied from 2 to 10 feet.

IV.—KASHMIR.

(*a*) *Srinagar.*—No snow fell.

(*b*) *Skardu.*—No snowfall occurred at the station; but there were two falls on high mountains on the 17th and 18th and the peaks were covered with snow at the end of the month. The depth of snow in Deosai plains was reported to be more than 6 feet, and the route from Srinagar to Skardu was closed. The route *viâ* Kargil was open, but there was some danger from snow on the Zojila pass.

(*c*) *Dras.*—There were three light falls of snow on the 17th, 18th and 23rd.

(*d*) *Kargil.*—Two inches of snow fell on the 16th on the tops of the higher ranges.

V.—THE UNITED PROVINCES.

Almora.—The total fall of snow was estimated at 2½ feet on Binkaru peak, 3 feet on Malla Darma and only 3 inches on Malla Danpur, the passes over which were open to traffic. The snow descended to about three quarters of a mile below the perpetual snowline in Chaudas.

The depth of accumulation at the end of the month was reported to be 6½ feet on Binkaru peak in Chaudas and 6 feet on Malla Darma peaks.

VI.—THE EASTERN HIMALAYAS.

Yatung and Gangtok.—No snow fell during the month.

Sadia Frontier Track.—There was heavy snow, but the month's total fall was not abnormal.

Summary.

15. The snowfall of the month was much lighter than usual in the Western Himalayas.

V. DORAISWAMY IYER,
Acting Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 12 stations in India, etc., in November, 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	29·983	29·861	·122	29·918	−·046	29·886	83·6	65·4	18·2	88·0	55·6	32·4	78·8	81·6	73·9	+1·5	63·7	69·0	68·7	67·1
	VI.—Punjab.																					
11	Lahore . . .	702	29·294	29·189	·105	29·234	−·052	29·916	85·1	52·5	32·6	91·8	41·8	50·0	70·8	83·8	66·8	+3·6	49·3	59·5	65·7	58·2
	IX.—Rajputana.																					
18	Jaipur . . .	1,431	28·604	28·498	·106	28·542	−·020	29·918	88·3	55·9	32·4	91·8	46·2	45·6	80·8	86·3	70·5	+1·6	48·8	60·1	62·4	57·1
	X.—Bombay.																					
25	Bombay . .	37	29·916	29·803	·113	29·855	−·058	29·832	89·5	74·6	14·9	93·2	70·7	22·5	81·2	85·2	81·3	+2·0	66·4	71·3	75·5	71·1
	XIV.—Mysore.																					
28	Bangalore . .	3,021	26·983	26·879	·104	26·930	−·017	29·796	79·3	63·9	15·4	85·1	58·4	26·7	74·0	75·7	70·6	+1·0	62·6	66·6	66·4	65·2
	XV.—Madras.																					
30	Trivandrum . .	198	29·727	29·626	·101	29·682	−·032	29·810	81·4	74·0	7·4	85·2	71·6	13·6	78·5	78·8	76·9	−0·8	72·8	75·9	75·8	74·8
31	Pudukkottai . .	318	29·629	29·505	·124	29·567		29·818	83·1	72·6	10·5	94·9	66·4	28·5	78·5	79·6	77·8			73·2	73·1	
	Madras . .	22	29·930	29·822	·108	29·876	−·050	29·831	84·5	74·2	10·3	92·3	69·4	22·9	81·0	81·4	78·5	+0·6	72·8	76·4	75·7	75·0
	Kashmir.																					
	Srinagar . .		25·025	24·907	·118	24·966	−·030	24·937	61·4	30·3	31·1	70·6	20·8	49·8	49·6	59·0	45·9	+1·9	28·5	43·0	49·7	40·7
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu . .	4,388	25·760	25·685	·075	25·720	+·022	25·674	75·2	45·8	29·4	82·0	40·9	41·1	60·6	69·7	60·0	+2·2	43·8	54·7	58·3	52·[illegible]
	Kodaikanal . .	7,688	22·838	22·769	·069	22·803		22·739	59·4	51·1	8·3	66·4	49·1	17·3	56·8	55·5	55·2		50·1	55·1	54·7	53·[illegible]
	Extra India.																					
	Seychelles . .	15																				
	Mauritius . .	181				29·865	−·021	29·932	82·6	66·6	16·0	86·4	60·1	26·2			73·9	−1·1				

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.

A.

at 12 stations in India, etc., in November, 1920.

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.	
·575	·585	·535	·530	+·002	91	59	49	69	−5	1·3	2·1	1·7	−0·8	6	8	8	6	2	2	3	5	20	N 20° W	N 12° W	40	58	42	44	0·02	0·02	Calcutta	5
																															VI.—Punjab.	
·315	·365	·397	·355	+·039	78	48	34	57	0	0·4	0·5	0·5	−1·0	27	4	1	1	9	0	1	4	13	N 41° W	N 42° W	15	18	22	23	0	0	Lahore	11
																															IX.—Rajputana.	
·260	·266	·269	·266	−·031	57	25	21	39	−8	0·9	1·2	1·1	−0·4	16	1	4	5	2	3	9	11	9	S 87° W	N 24° W	23	35	28	47	0	0	Jaipur	18
																															X.—Bombay.	
·530	·633	·753	·666	−·050	63	59	62	65	−8	2·2	1·8	2·0	−0·3	0	7	11	11	7	3	2	4	13	N 32° E*	N 18° E	28	51	131	168	0	0	Bombay	25
																															XIV.—Mysore.	
·553	·567	·511	·567	+·028	93	68	62	77	+2	7·4	7·6	7·5		9	3	23	19	4	0	0	1	1	N 65° E	N 60° E	67	68	114	88	2·72	1·54	Bangalore	19
																															XV.—Madras.	
·789	·856	·850	·832	−·049	94	87	87	92	+8	8·8	9·7	9·3	+3·6	11	9	1	3	2	1	7	11	15	N 59° W	N 51° W	42	48	56	61	18·13	2·69	Trivandrum	30
	·748	·730				77	74			7·4	8·0	7·7		14	3	36	3	0	0	2	0	2	N 42° E		63		96		17·05	6·35	Pudukkottai	31
·788	·845	·816	·836	+·040	93	80	77	86	+2	8·0	6·8	7·4	+1·5	0	21	29	9	0	0	1	0	0	N 37° E	N 27° E	82	62	72	114	30·50	5·92	Madras.	
																															Kashmir.	
·157	·208	·253	·206	−·027	92	58	51	67	−12	3·0	3·0	3·0	0	34	5	1	2	3	0	2	3	10	N 34° W	N 1° E	18	21	34	45	0	0	Srinagar	
																															Hill stations, excluding Kashmir and Baluchistan.	
·263	·362	·358	·328	−·008	85	68	50	72	−3	2·2	3·0	2·6	0	0	1	0	29	0	0	0	30	0	N 45° W	N 81° W	2	42	9	10	0	0	Katmandu.	
·354	·418	·421	·398		94	91	96	94		8·8	9·8	9·3		2	21	12	14	6	1	0	0	4	N 41° E		60		201		15·52	1·95	Kodaikanal.	
																															Extra India.	
																								S 56° E		14		93			Seychelles.	
			·572	−·033				68	−1			5·3	+0·4										S 83° E	S 85° E			199	182	0·41	0·14	Mauritius.	

*2 winds less.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in November, 1920.

(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	—·031	85·6	+0·5	67·8	—0·8	76·7	—0·1	17·9	—0·3	+ 6	83	− 2	·694	—·026	4·1	0	1·39	2·15	—0·76
Assam	—·024	83·2	+1·1	60·3	—0·9	71·7	+0·1	22·9	+0·3	− 2	89	− 2	·571	—·015	3·3	—0·2	0·12	0·88	—0·76
Bengal	—·028	84·0	+1·0	64·6	+0·4	74·3	+0·7	19·4	—0·5	—11	81	− 2	·617	—·007	1·5	—0·5	0·02	0·74	—0·72
Bihar and Orissa	—·025	84·8	+1·9	61·1	+0·3	72·9	+1·1	23·7	—0·3	− 4	70	− 6	·506	—·004	1·5	0	0·02	0·61	—0·59
United Provinces of Agra and Oudh	—·019	86·3	+3·0	56·0	+0·8	71·1	+1·9	30·3	—0·2	0	63	− 7	·396	—·016	0·7	—0·1	0	0·13	—0·13
Punjab	—·035	85·2	+2·5	52·6	+2·3	68·9	+2·4	32·6	+0·4	+ 9	57	− 5	·304	—·008	0·6	—0·6	0	0·13	—0·13
North-West Frontier Province	—·041	81·7	+1·8	50·1	+2·9	65·9	+2·3	31·7	—0·7	− 3	65	− 1	·301	+·013	0·9	—0·9	0	0·35	—0·35
Sind	—·035	87·3	+1·7	61·9	+2·9	74·6	+2·3	25·4	—0·3	− 3	51	− 8	·377	—·030	0·4	—0·9	0	0·06	—0·06
Rajputana	—·028	89·4	+2·2	57·8	+1·1	73·6	+1·7	31·6	—0·3	− 4	40	—10	·249	—·068	0·8	—0·3	0	0·14	—0·14
Bombay	—·013	91·6	+2·6	65·9	+1·7	78·7	+2·3	25·7	—1·1	− 8	53	− 7	·462	—·032	2·1	+0·5	0·04	0·65	—0·61
Central India	—·029	86·3	+3·2	55·4	+1·3	70·9	+2·3	30·9	—1·3	—14	49	—10	·332	—·056	1·1	0	0	0·42	—0·42
Central Provinces	—·027	87·3	+3·5	58·3	+0·8	72·8	+2·1	29·0	+0·5	+11	45	—16	·318	—·062	1·7	+0·1	0	0·50	—0·50
Hyderabad	—·033	89·5	+3·5	64·9	+2·6	77·2	+3·1	24·6	—0·1	+10	50	—13	·452	—·044	3·4	+1·1	0	0·82	—0·82
Mysore	—·034	81·4	0	64·9	+2·4	73·1	+1·2	16·5	—0·1	—15	81	+ 6	·605	+·048	6·6	+1·6	1·10	2·12	—1·02
Madras	—·041	85·0	—1·0	72·3	+1·4	78·6	+0·2	12·7	—0·2	− 4	83	+ 5	·761	+·040	6·1	+1·7	11·0	5·32	+5·69

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	29·773		29·850	29·860	13th	29·700	24th	79·2	75·6	86·5		75·5		81·0		11·0	89·2	13th	72·2	27th
	Mergui	66	29·866	−·044	29·861	29·947	14th	29·797	24th	79·2	75·6	88·0	+0·7	74·3	+2·9	81·2	+2·3	13·7	90·9	25th	72·6	15th
	Tavoy	19	29·914	−·058	29·866	30·009	13th	29·845	28th & 29th.	78·3	75·0	89·5	+1·7	72·2	+2·6	80·9	+2·1	17·3	92·0	27th	69·9	23rd
	Moulmein	99	29·883	−·036	29·898	29·992	13th	29·790	29th	76·9	73·5	88·1	−0·4	73·0	+1·4	80·6	+0·5	15·1	92·5	26th	70·1	4th
	Rangoon	18	29·947	−·027	29·902	30·049	13th	29·853	29th	76·0	72·5	88·0	+0·6	73·2	+0·6	80·6	+0·6	14·8	91·9	25th	70·1	18th
	Bassein	27	29·953	−·014?	29·917	30·048	13th	29·870	28th	76·8	72·1	85·9	−0·1	70·3	−1·5	78·1	−0·8	15·6	89·6	28th	64·5	18th
	Diamond Island	41	29·898	−·040	29·874	30·000	13th	29·814	29th	80·0	76·6	85·2	−0·2	75·7	0	80·4	−0·1	9·5	88·8	22nd	72·0	2nd & 3rd.
	Toungoo	164	29·811	−·026	29·916	29·913	13th	29·714	29th	73·7	70·6	85·3	−1·6	65·9	−3·9?	75·6	−2·7?	19·4	89·1	15th	60·2	20th
	Kyaukpyu	18	29·939		29·897	30·036	13th	29·856	29th	77·4	73·6	84·4		71·7		78·0		12·7	88·5	13th	64·9	20th
	Akyab	20	29·923	−·051	29·884	30·029	13th	29·844	29th	72·5	69·9	83·9	−0·9	68·0	−3·1	76·0	−2·0	15·9	87·8	9th	59·0	30th
3	Minbu	*165*	29·820	−·038	29·931	29·937	13th	29·712	29th	72·1	67·9	84·2	−3·1	67·7	−0·8	75·9	−1·9	16·5	88·2	10th	56·7	30th
	Yamethin	644	29·327	−·030	29·935	29·442	13th	29·215	29th	71·5	66·7	87·6	+0·5	65·0	−2·2	76·3	−0·9	22·6	91·9	15th	59·4	30th
	Mandalay	250	29·752	−·009	29·955	29·870	13th	29·536	29th	74·9	68·6	90·3	+3·1	65·3	−2·4	77·8	+0·3	25·0	95·5	6th	59·7	29th
	Monywa	*280*	29·734	−·016	29·970	29·857	13th	29·613	29th	71·2	67·2	87·3	+2·0	65·6	−1·8	76·4	+0·1	21·7	91·8	7th & 9th.	59·9	30th
	Lashio	*2,820*	27·210	−·018	27·156	27·327	13th	27·075	30th	60·2	58·2	77·6	0	53·6	−1·4	65·6	−0·7	24·0	82·1	9th	47·8	29th
	Bhamo	*361*	29·642	−·013	29·970	29·737	13th	29·525	29th	62·5	61·5	82·3	+1·4	57·7	−2·2	70·0	−0·4	24·6	88·7	15th	51·5	17th
	Myitkyina	458	29·543	−·022	29·983	29·662	1st	29·420	29th	65·7	61·8	81·8	+1·6	57·6	−3·7	69·7	−1·1	24·2	86·4	6th & 8th.	51·0	25th
	II.—Assam.																					
4	Dibrugarh	353	29·759	−·036	29·987	29·779	13th	29·552	29th	64·7	62·5	81·6	+2·4	59·3	−0·6	70·4	+0·9	22·3	84·9	6th & 8th.	55·1	30th
	Sibsagar	333	29·685	−·046	29·992	29·801	13th	29·559	29th	62·1	61·5	77·5?	−0·4?	59·3	−0·4	68·5	−0·4?	18·2	81·2	6th	54·5	30th
	Tezpur	252	29·787	−·008	30·008	29·906	13th	29·674	29th	65·1	63·0	81·7	+1·4	61·1	+0·3	71·4	+0·9	20·6	85·2	7th	57·7	29th
	Gauhati	196	29·838	−·022	29·997	29·934	13th	29·721	29th	67·0	65·6	83·0	+1·2	60·3	−0·2	71·7	+0·5	22·7	89·7	1st	55·7	29th
	Dhubri	115	29·896	−·025	29·969	30·017	13th	29·782	29th	68·3	65·7	79·3	−0·8	65·0	+1·7	72·1	+0·5	14·3	82·7	9th	60·6	23rd
	Silchar	104	29·923	−·005	29·982	30·047	13th	29·832	29th	71·4	66·8	86·8	+1·9	60·8	−2·7	73·8	−0·4	26·0	91·7	6th & 7th.	52·3	20th
	Srimangal	66	29·937*		29·956*	30·026	13th	29·846	29th	64·6	63·3	86·8	+0·4	55·5	−3·8	71·1	−1·7	31·3	91·9	8th	48·9	25th
	III.—Bengal.																					
5	Cox's Bazar	36	29·930		29·911	30·036	13th	29·854	29th	74·9	71·0	85·7		66·4		76·0		19·3	89·7	7th	56·7	30th
	Chittagong	87	29·895	−·023	29·930	30·008	13th	29·814	29th	69·7	68·0	84·1	+1·1	64·6	−0·9	74·3	+0·1	19·5	89·1	2nd	58·0	29th
	Noakhali	43	29·949	−·015	29·940	30·058	13th	29·866	29th	71·0	68·0	84·8	+2·1	65·5	+2·0?	75·2	+2·1?	19·3	88·8	7th, 8th & 9th.	56·8	30th
	Barisal	12	29·964	−·030	29·923	30·070	13th	29·890	29th	73·5	69·3	83·4	+0·4	65·0	0	74·2	+0·2	18·4	87·9	7th & 8th.	57·0	29th
	Narayanganj	26	29·957	−·033	29·933	30·063	13th	29·879	29th	73·0	68·0	84·4	+1·0	66·4	+0·5	75·4	+0·7	18·0	86·9	8th	58·2	29th
	Mymensingh	62	29·933	−·023	29·958	30·046	13th	29·844	29th	70·2	66·7	83·9	+1·6	65·3	+1·2	74·6	+1·4	18·6	89·4	7th	60·1	24th & 25th.
	Bogra	75	29·920	−·029	29·949	30·036	13th	29·822	29th	68·0	66·0	82·2	−0·3	63·0	+0·4	72·6	+0·1	19·2	86·9	7th	55·6	28th
	Dinajpur	123	29·870	−·036	29·952	29·974	13th	29·765	29th	68·2	64·7	82·6	+0·1	61·6	+1·1	72·1	+0·6	21·0	85·8	7th, 8th & 9th.	52·5	23rd
	Jalpaiguri	283	29·738	−·018	29·985	29·826	13th	29·617	29th	65·6	62·9	82·8	+1·1	61·8	+0·9	72·2	+1·0	21·2	86·0	6th & 7th.	57·1	23rd
	Saugor Island	10	29·981	−·029	29·937	30·091	13th	29·905	29th	74·3	70·0	83·2	+1·2	68·7	+1·7	76·0	+1·5	14·5	87·1	8th	60·7	27th & 28th.
	Midnapore	149	29·843	−·032	29·945	29·937	13th	29·756	7th	71·2	64·3	85·2	+0·4	63·6	+0·6	74·4	+0·5	21·6	88·9	8th	52·6	28th
	Calcutta	21	29·972	−·035	29·940	30·071	13th	29·885	29th	69·5	66·4	82·8	+1·8	65·3	+1·0	74·6	+1·4	18·5	88·0	4th	55·6	28th

* Mean of 28 days.

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

B.

at 212 stations in India, etc., in November, 1920.

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 30th Nov. 1920.	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.
6	2	14	7	1	0	0	0	0	N 58° E		3·7			66		84		·835		5·5		11	0	3·89	6·56	— 2·67	3·89	6·56	— 2·67	0·93	Victoria Point.
										N 29° E		1·2				84	+ 2	·839	+ ·066	1·9	—1·8	5	—1·1	3·66	3·79	— 0·13	3·66	3·79	— 0·13	2·17	Mergui.
24	2	3	0	1	0	0	0	0	N 48° E	N 29° E	1·5	0·9	+0·6	13	+ 5	85	+ 2	·819	+ ·062	5·1	+3·2	3	—1·0	1·36	2·45	— 1·09	1·36	2·45	— 1·09	0·75	Tavoy.
4	0	17	8	0	0	0	0	1	N 57° E	N 4° E	2·1	1·8	+0·3	76	+54	84	0	·779	+ ·007	4·0	+0·9	1	—1·8	0·73	2·21	— 1·48	0·73	2·21	— 1·48	0·60	Moulmein
0	10	16	3	0	0	0	0	1	N 32° E	N 68° E	3·7	2·8	+0·9	82	+22	84	— 2	·751	— ·029	5·3	+1·7	5	+1·8	3·69	2·73	+ 0·96	3·69	2·73	+ 0·96	1·27	Rangoon.
11	5	10	3	0	0	0	1	0	N 37° E	N 56° E	2·8	2·6	+0·2	49	—10	79	— 8	·743	— ·034	4·0	+0·8	4	—0·1	5·70	3·22	+ 2·48	5·70	3·22	+ 2·48	2·98	Bassein.
0	2	17	9	0	0	0	0	2	N 52° E	N 53° E	6·0	6·7	—0·7	79	+ 6	84	— 6	·867	+ ·060	6·2	+2·5	5	—0·3	14·56	5·03	+ 9·53	14·56	5·03	+ 9·53	5·80	Diamond Island.
9	14	2	0	1	0	0	1	3	N 3° W	N 12° W	1·2	1·2	0	56	+ 4	85	— 4	·701	— ·051	3·7	—0·9	4	+1·3	2·17	1·84	+ 0·33	2·17	1·84	+ 0·33	0·90	Toungoo.
24	0	3	3	0	0	0	0	0	N 67° E		0·5			17		83		·786		2·8		0	—4·7	0·05	5·33	— 5·28	0·05	5·33	— 5·28	0·03	Kyaukpyu.
6	8	11	3	1	0	0	0	1	N 34° E	N 26° E	1·6	1·7	—0·1	62	—22	87	— 3	·700	— ·046	3·7	+0·3	0	—3·5	0	4·08	— 4·08	0	4·08	— 4·08	0	Akyab.
1	0	0	0	0	0	2	0	27	N 49° W	N 48° W	2·2	5·2	—3·0	86	+10	80	+ 1	·628	— ·038	3·1	—0·2	2	—0·5	1·16	1·82	— 0·66	1·16	1·82	— 0·66	0·91	Minbu.
										N 18° W		2·2				77	— 8	·596	— ·091	2·5	—1·3	2	—0·8	0·55	1·67	— 1·12	0·55	1·67	— 1·12	0·30	Yamethin.
28	0	0	0	0	1	0	0	1	S 67° W	N 11° E	1·4	1·5	—0·1	2	—18	71	—14	·615	— ·074	3·5	+0·1	2	—1·0	0·42	1·65	— 1·23	0·42	1·65	— 1·23	0·17	Mandalay.
3	19	1	0	0	0	0	0	7	N 10° W		1·3			82		80	— 8	·615	— ·080	4·2	—0·3	1	—1·2	0·38	1·77	— 1·39	0·38	1·77	— 1·39	0·25	Monywa.
30	0	0	0	0	0	0	0	0	Calm		1·5					88	— 5	·461	— ·043	3·4	—3·3	1	—3·6	0·11	2·60	— 2·49	0·11	2·60	— 2·49	0·11	Lashio.
30	0	0	0	0	0	0	0	0	Calm	N 23° E	0·1	1·2	—1·1			94	+ 3	·534	— ·045	8·6	+4·6P	0	—2·7	0	1·50	— 1·50	0	1·50	— 1·50	0	Bhamo.
24	2	3	1	0	0	0	0	0	N 37° E		1·2			17		90	+ 4	·529	— ·054	2·5	—2·2	0	—2·1	0	1·02	— 1·02	0	1·02	— 1·02	0	Myitkyina.
																															II.—Assam.
25	0	4	1	0	0	0	0	0	N 53° E		0·5			17		88	— 1	·535	— ·004	1·8	—1·6	0	—2·4	0·06	1·26	— 1·20	0·06	1·26	— 1·20	0·06	Dibrugarh.
22	2	2	2	0	1	0	0	1	N 41° E	N 60° E	0·4	1·1	—0·7	13	—14	96	— 1	·539	— ·042	8·6	+2·9	1	—1·1	0·24	1·10	— 0·86	0·24	1·10	— 0·86	0·24	Sibsagar.
17	0	5	7	1	0	0	0	0	N 76° E		1·2			37		88	— 1	·551	— ·004	1·7	—0·9	0	—1·5	0	0·75	— 0·75	0	0·75	— 0·75	0	Tezpur.
27	0	2	1	0	0	0	0	0	N 59° E		0·9			7		92	— 1	·614	+ ·019	8·7	+3·2	0	—1·0	0	0·39	— 0·39	0	0·39	— 0·39	0	Gauhati.
1	0	13	15	0	0	1	0	0	N 71° E	N 65° E	5·3	3·7	+1·6	79	+ 2	86	— 1	·597	— ·003	0·4	—1·2	0	—0·5	0	0·34	— 0·34	0	0·34	— 0·34	0	Dhubri.
25	0	2	3	0	0	0	0	0	N 72° E	N 79° E	1·2	1·2	0	13	+ 5	78	— 9	·593	— ·031	0·4	—3·4	1	—0·8	0·31	1·35	— 1·04	0·31	1·35	— 1·04	0·31	Silchar.
																93	+ 5P	·569	— ·042	1·2		0	—0·9	0	0·96	— 0·96	0	0·96	— 0·96	0	Srimangal.
																															III.—Bengal.
26	0	4	0	0	0	0	0	0	N 45° E		0·9			13		82		·714		2·2		0	—3·4	0·07	4·75	— 4·68	0·07	4·75	— 4·68	0·07	Cox's Bazar.
7	1	19	3	0	0	0	0	0	N 49° E	N 43° E	1·1	2·0	—0·9	69	— 4	91	+ 3	·669	— ·004	2·2	—0·8	0	—1·7	0·09	1·86	— 1·77	0·09	1·86	— 1·77	0·06	Chittagong.
4	17	9	0	0	0	0	0	0	N 15° E		1·3			80		85	— 2	·652	— ·019	1·7	+0·1	0	—1·6	0	1·75	— 1·75	0	1·75	— 1·75	0	Noakhali.
8	6	7	2	0	0	1	2	4	N 6° E	N 18° E	1·2	1·2	0	43	+18	81	— 3	·673	— ·007	1·6	—0·2	0	—1·6	0	1·55	— 1·55	0	1·55	— 1·55	0	Barisal.
26	1	0	0	1	0	0	0	2	N 24° W	N 13° E	0·4	1·5	—1·1	7	—36	76	— 9	·623	— ·029	0·9	—1·6	0	—1·1	0	1·02	— 1·02	0	1·02	— 1·02	0	Narayanganj.
30	0	0	0	0	0	0	0	0	Calm	N 58° E	0·2	0·8	—0·6			83	— 4	·615	— ·025	1·1	—1·3	0	—0·9	0	0·81	— 0·81	0	0·81	— 0·81	0	Mymensingh.
16	5	5	0	0	0	0	3	1	N 1° W	N 27° E	0·8	1·0	—0·2	31	— 7	89	+ 6	·619	+ ·023	2·2	+1·2	0	—0·7	0	0·74	— 0·74	0	0·74	— 0·74	0	Bogra.
8	1	9	5	0	0	1	2	4	N 32° E	N 21° E	0·9	1·6	—0·7	37	—18	82	— 1	·567	— ·003	0·3	—1·0	0	—0·5	0	0·25	— 0·25	0	0·25	— 0·25	0	Dinajpur.
29	1	0	0	0	0	0	0	0	N	N 20° E	0·2			3	—52	86	+ 2	·549	— ·006	0	—1·1	0	—0·5	0	0·22	— 0·22	0	0·22	— 0·22	0	Jalpaiguri.
1	13	12	1	1	0	0	0	2	N 21° E	N 10° E	3·8	4·3	—0·5	79	+ 6	80	— 6	·678	— ·003	2·5	—0·2	0	—1·4	0·06	1·45	— 1·39	0·06	1·45	— 1·39	0·04	Saugor Island.
9	12	5	0	0	0	0	0	4	N 3° E		1·3			60		67	— 4	·521	— ·005	0·9	—0·5	0	—1·1	0	0·82	— 0·82	0	0·82	— 0·82	0	Midnapore.
5	3	8	3	0	1	0	0	10	N 6° E	N	1·8	1·8	0	49	+ 4	84	+ 2	·614	+ ·002	1·8	0	0	—1·1	0·02	0·66	— 0·64	0·02	0·66	— 0·64	0·02	Calcutta.

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. 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
	III.—Bengal—*concld.*																					
	Jessore	30	29·965	−·028	29·942	30·061	13th	29·874	29th	70·4	66·5	84·6	+1·4	62·0	−0·7	73·8	+0·3	21·6	88·8	2nd	52·4	8th
	Burdwan	99	29·894	−·038	29·943	29·995	13th	29·816	28th	69·5	64·5	85·2	+1·6	64·0	−0·2	74·6	+0·7	21·2	89·2	8th	52·6	28th
	Berhampore	67	29·944	−·019	29·964	30·040	13th	29·646	29th	70·1	66·3	83·4	+1·2	64·3	+0·2	73·8	+0·7	19·1	87·6	7th	54·4	28th
	IV.—Bihar and Orissa.																					
6	Balasore	50	29·949	−·034	29·945	30·044	13th	29·870	7th	69·2	64·9	88·5	+2·5	63·1	+0·6	74·8	+1·5	23·4	89·4	8th	52·1	30th
	Hukitala (False Point)	29	29·958	−·039	29·928	30·071	13th	29·830	2nd													
	Cuttack	80	29·914	−·035	29·837	30·019	13th	29·816	6th	71·0	67·0	85·6	+0·4	66·4	+0·5	76·0	+0·5	19·2	89·5	9th	55·2	29th
	Puri	24	29·974	−·030	29·937	30·091	13th	29·899	2nd	73·9	69·2	85·5	+0·7	70·4	+1·8	77·9	+1·3	15·1	88·1	1st	61·0	30th.
	Angul	455	29·524	−·031	29·948	29·630	13th	29·465	7th	70·7	64·7	86·5	+2·0	62·5	+2·8?	74·5	+2·2?	24·0	89·8	6th & 8th.	52·4	30th
	Sambalpur	486	29·507	−·053?	29·957	29·610	15th	29·436	29th	69·8	63·6	86·5	+2·8	60·4	−1·0	73·5	+0·9	26·1	89·5	9th	47·9	29th
7	Chaibasa	*733*	29·250	−·032	29·961	29·343	15th	29·162	29th	66·8	61·7	85·7	+2·1	60·0	0	72·8	+1·1	25·7	88·4	8th	49·6	30th
	Ranchi	2,128	27·848	−·017	29·952	27·951	15th	27·742	29th	66·6	57·4	79·8	+1·8	58·1	+0·3	69·0	+1·1	21·7	83·3	9th	49·8	30th
	Purulia	*816*	29·188	−·013	29·982	29·296	15th	29·099	28th	69·8	60·2	87·1	+3·3	62·5	+2·0	74·8	+2·7	24·6	90·5	8th	54·5	30th
	Daltonganj	*730*	29·285	−·025	29·999	29·380	13th	29·211	28th	64·0	59·3	85·5	+2·3	53·9	+0·4	69·7	+1·3	31·6	88·9	12th	43·0	30th
8	Purnea	124	29·889	−·028	29·972	29·997	13th	29·790	29th	67·4	63·7	83·6	+1·6	57·3	−1·7	70·4	−0·1	26·3	83·5	8th	48·1	24th
	Monghyr	155	29·847		29·930	29·951	13th	29·732	29th	69·2	63·1	84·1		62·2		73·2		21·9	88·7	8th	53·9	28th
	Darbhanga	165	29·851	−·019	29·977	29·958	13th	29·759	29th	67·8	63·8	83·9	+2·2	59·0	−2·3	71·6	−0·1	24·9	88·8	7th	50·4	28th
	Pusa	186	29·819		29·970	29·927	13th	29·721	29th	65·4	62·6	84·4		58·5		71·5		25·9	89·2	4th	50·1	28th
	Patna	183	29·841	−·018	29·985	29·945	13th	29·760	29th	71·1	63·0	83·8	+1·9	62·3	+1·6	73·1	+1·7	21·5	89·3	4th	52·7	30th
	Buxar	239	29·770	−·025	29·974	29·875	13th	29·679	28th	67·4*	61·4*	83·5*	−0·7?	60·0*	+0·3*	71·7*	−0·2*	23·5	88·7	20th	51·1	29th
	Gaya	272	29·653	−·013	29·990	29·753	13th	29·558	28th	71·8	62·3	84·7	+1·3	61·8	+2·3	72·3	+1·8	22·9	87·8	5th	54·1	29th
	Naya Dumka	489	29·519	−·014	29·974	29·606	13th	29·426	29th	71·0	63·5	84·1	+2·0	59·9	0	72·0	+1·0	24·2	88·6	3rd	50·6	28th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·760	−·008	29·985	29·874	13th	29·667	29th	66·5	62·1	83·2	+1·3	57·1	−0·7	70·2	+0·3	26·1	88·0	2nd	48·3	27th
	Benares	267	29·746	−·024	29·977	29·848	14th	29·665	28th	67·5	60·6	86·1	+2·3	55·7	+0·2	70·8	+1·7	30·4	90·7	1st	45·7	29th
	Allahabad	309	29·724	−·005	30·001	29·835	13th	29·641	29th	67·3	58·7	87·3	+3·8	56·6	+1·4	72·0	+2·6	30·7	92·9	1st	47·3	20th
	Cawnpore	416	29·605	−·008	29·994	29·721	13th	29·509	29th	63·4	57·1	86·9	+3·7	57·6	+1·5	72·2	+2·6	29·3	94·6	5th	48·7	29th
	Lucknow	368	29·611	−·020	29·985	29·760	13th	29·569	30th	62·1	56·3	83·1	+4·3	51·6	−1·5	69·9	+1·4	26·5	93·5	1st	41·5	29th
	Bahraich	407	29·588	−·025	29·974	29·718	13th	29·488	29th	66·4	59·4	85·2	+1·7	57·7	+1·2	71·4	+1·5	27·5	89·9	1st	47·6	27th
10	Jhansi	824	29·189	−·032	29·995	29·292	13th	29·090	29th	68·9	57·4	89·6	+3·8	57·5	−1·9	73·5	+0·9	32·1	94·6	1st	48·0	29th
	Agra	556	29·459	−·018	29·990	29·549	13th	29·364	29th	71·9	58·4	88·5	+3·8	59·7	+2·1	74·1	+3·5	28·8	93·6	19th	52·1	27th
	Mainpuri	516	29·481	−·021	29·979	29·598	13th	29·385	29th	63·9	55·0	88·1	+3·3	55·4	+1·2	71·7	+2·3	32·7	95·7	8th	46·8	29th
	Bareilly	568	29·427	−·019	29·982	29·563	13th	29·313	29th	63·8	50·0	84·9	+2·3	56·3	+3·1	70·6	+3·2	28·6	97·3	8th	47·5	28th
	Roorkee	899	29·091	−·016	30·005	29·227	13th	28·968	27th	58·5	54·5	81·5	+1·0	50·2	+1·0	66·1	+1·0	30·7	86·2	8th	40·6	28th
	VI.—Punjab.																					
11	Delhi	718	29·274	−·027	29·989	29·386	13th	29·171	29th	63·4	53·7	83·9	+1·0	59·4	+2·7	71·6	+1·9	24·5	90·0	1st	49·8	29th
	Hissar	725	29·282	−·017	30·007	29·290	13th	29·135	29th	66·7	51·2	88·2	+3·2	52·2	+1·9	70·3	+2·5	36·1	97·8	2nd	40·2	21st

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

*Mean of 29 days.

B—*continued.*

at 212 stations in India, etc., in November, 1920—*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 30th Nov. 1920.	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.*
30	0	0	0	0	0	0	0	0	Calm	N 6° W	0·3	1·2	−0·9			80	− 3	·606	−·024	1·1	−0·8	0	− 1·1	0	1·08	− 1·08	0	1·08	− 1·08	0	Jessore.
22	4	1	0	0	0	0	0	3	N 12° W	N 5° W	0·4	1·2	−0·8	23	−17	75	0	·552	0	1·2	−0·6	0	− 1·0	0	0·72	− 0·72	0	0·72	− 0·72	0	Burdwan.
20	6	1	0	0	0	1	0	2	N 11° W	N 13° W	0·9	1·1	−0·2	23	− 7	80	− 4	·598	+·004	2·1	+0·2	0	− 0·7	0	0·62	− 0·62	0	0·62	− 0·62	0	Berhampore.
																															IV.—Bihar and Orissa.
9	10	2	0	0	0	0	0	9	N 16° W	N 21° W	1·2	1·5	−0·3	62	− 5	78	− 2	·596	+·003	3·0	+1·3	0	− 1·3	0	1·27	− 1·27	0	1·27	− 1·27	0	Balasore.
3	14	6	2	0	0	0	1	4	N 6° E		5·4*			69	−11					5·1	+1·7	5	+ 2·7	2·08	3·10	− 1·02	2·08	3·10	− 1·02	0·64	Hukitala (False Point),
23	0	3	1	0	0	1	2	0	N 18° E	N 45° W	0·8	1·2	−0·4	5	−12	80	+ 2	·614	+·036	2·2	−0·3	0	− 1·7	0	1·50	− 1·50	0	1·50	− 1·50	0	Cuttack.
0	18	11	0	0	0	0	0	1	N 15° E		5·9			23		78	0	·656	+·015	2·0	0	1	− 1·1	0·21	3·47	− 3·26	0·21	3·47	− 3·26	0·21	Puri.
1	1	1	0	0	0	0	6	21	N 50° W		3·2			87		71	− 2	·542	+·038	2·4	+1·2	0	− 1·2	0	1·12	− 1·12	0	1·12	− 1·12	0	Angul.
0	11	10	0	0	0	0	0	9	N 2° E	N 21° E	1·7	2·0	−0·3	79	+ 4	69	− 5	·508	−·012	1·4	−0·4	0	− 1·0	0	0·90	− 0·90	0	0·90	− 0·90	0	Sambalpur.
23	1	3	0	0	0	3	0	0	N	S 77° W	1·1	0·7	+0·4	3	−30	73	− 9	·480	−·019	0·9	−0·8	0	− 1·1	0	0·77	− 0·77	0	0·77	− 0·77	0	Chaibasa.
6	7	2	1	0	1	0	6	7	N 35° W	N 62° W	2·4	2·7	−0·3	49	+31	55	− 8	·366	− 033	0·8	−0·8	0	− 0·9	0	0·45	− 0·45	0	0·45	− 0·45	0	Ranchi.
21	1	0	0	0	0	0	6	2	N 74° W		0·7			23		53	−17	·403	− 046	0·5	−0·7	0	− 1·0	0	0·61	− 0·61	0	0·61	− 0·61	0	Purulia.
30	0	0	0	0	0	0	0	0	Calm		1·4					74	− 5	·452	+·017	0·3	−0·8	0	− 0·7	0	0·45	− 0·45	0	0·45	− 0·45	0	Daltorganj.
6	1	6	6	3	0	3	3	2	N 68° E	N 50° E	1·0	1·1	−0·1	23	+12	80	− 9	·545	−·002	1·6	+0·9	0	− 0·4	0	0·24	− 0·24	0	0·24	− 0·24	0	Purnea.
14	0	2	3	1	0	9	1	0	S 18° W		1·8			20		70		·511		0·8		0	− 1·0	0	1·51	− 1·51	0	1·51	− 1 51	0	Monghyr.
28	0	0	2	0	0	0	0	0	E	N 48° W	0·2	1·2	−1·0	7	− 3	79	− 4	·549	−·002	1·0	+0·4	0	− 0·4	0	0 24	− 0·24	0	0·24	− 0 24	0	Darbhanga.
16	0	3	2	2	1	3	2	1	S 27° E		1·0			7		85		·535		1·1		0	− 0·6	0	0·54	− 0·54	0	0·54	− 0·54	0	Pusa.
19	0	2	1	1	1	2	3	1	S 63° W	S 60° W	1·4	1·3	+0·1	7	−20	61	−10	·479	−·021	0·8	−0·3	0	− 0·5	0	0·32	− 0·32	0	0·32	− 0·32	0	Patna.
12	0	3	3	0	0	5	5	1	S 76° W		1·0			13		69*	+ 2	·466*	+·011	1·3	+0·2	0	− 0·5	0	0·44	− 0·44	0	0·44	− 0·44	0	Buxar.
7	1	3	2	0	1	9	6	1	S 69° W	S 7° E	1·1	1·7	−0·6	30	− 3	57	−14	·443	−·024	0·6	−0·9	0	− 0·7	0	0·51	− 0 51	0	0·51	− 0·51	0	Gaya.
30	0	0	0	0	0	0	0	0	Calm		0·8					64	−10	·493	−·016	0·3	−0·8	0	− 0·7	0	0·45	− 0·45	0	0·45	− 0·45	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
15	0	0	12	0	0	0	3	0	E	N 67° W	0·7	0·7	0	30	0	77	+ 1	·506	+·009	0·4	−0·3	0	− 0·4	0	0·19	− 0·19	0	0·19	− 0·19	0	Gorakhpur.
16	0	0	0	2	1	11	0	0	S 32° W	S 53° W	1·4	1·4	0	40	+18	65	−10	·456	−·006	1·4	+0·4	0	− 0·7	0	0·34	− 0·34	0	0·34	− 0·34	0	Benares.
16	0	0	2	0	0	2	9	1	S 86° W	N 82° W	0·9	1·7	− 0·8	30	+ 5	58	−11	·383	−·054	2·0	+0·9	0	− 0·6	0	0·36	− 0·36	0	0·36	− 0·36	0	Allahabad.
13	1	1	4	1	1	2	5	2	W	N 68° W	1·3	1·4	−0·1	8	−11	66	−11	·393	−·002	0·3	−0·4	0	− 0·4	0	0·39	− 0·39	0	0·39	− 0·39	0	Cawnpore.
29	0	0	0	0	0	1	0	0	S 45° W	N 72° W	0·6	1·0	−0·4	3	−10	67	− 5	·383	−·040	0·8	−0·1	0	− 0·4	0	0·21	− 0·21	0	0·21	− 0·21	0	Lucknow.
21	1	2	4	0	0	0	2	0	N 54° E	N 2° W	0·9	1·3	−0·4	10	− 3	78	+ 1	·464	−·016	0·4	−0·1	0	− 0·7	0	0·33	− 0·33	0	0·33	− 0·33	0	Bahraich.
9	2	1	0	0	0	18	0	0	S 50° W	S 81° W	2·1	1·3	+0·8	53	+30	46	− 6	·326	−·043	0·5	−0·2	0	− 0·4	0	0·14	− 0·14	0	0·14	− 0·14	0	Jhansi.
18	0	2	3	2	2	2	1	0	S 45° E	N 56° W	1·2	2·0	−0·8	13	−24	40	−17	·314	−·023	0·8	0	0	− 0·3	0	0·13	− 0·13	0	0·13	− 0·13	0	Agra.
14	1	1	1	2	2	2	3	4	S 86° W	N 60° W	0·7	0·6	+0·1	14	− 5	52	−15	·314	−·051	1·0	0	0	− 0·3	0	0·21	− 0·21	0	0·21	− 0 21	0	Mainpuri.
27	0	0	1	0	0	0	2	0	W	N 7° E	0·1	0·9	−0·8	3	− 6	74	− 3	·440	+·034	0·4	−0·3	0	− 0·4	0	0·26	− 0·26	0	0·26	− 0·26	0	Bareilly.
27	0	0	0	1	0	0	0	2	N 45° W	S 81° E	0·9	0·8	+0·1	3	+ 1	75	− 2	·379	+·019	0	−0·8	0	− 0·6	0	0·28	− 0·28	0	0·28	− 0·28	0	Roorkee.
																															VI.—Punjab.
7	1	1	2	1	3	1	10	4	N 89° W	N 89° W	2·0	1·5	+0·5	34	− 4	50	− 5	·299	−·004	0·4	−0·6	0	− 0·4	0	0·13	− 0·13	0	0 13	− 0·13	0	Delhi.
2	0	2	2	5	5	11	2	1	S 14° W	S 18° W	3·1	2·0	+1·1	46	+35	47	−13	·255	−·052	0·8	−0·4	0	− 0·1	0	0·03	− 0·03	0	0·03	− 0·03	0	Hissar.

* Mean of 29 days.

Table

(2) Abstract of observations taken at 8 hrs.

Number of sub-division.	Station.	Height of barometer 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
	VI.—Punjab—*concld.*																					
	Patiala	*818*	29·147	—·049	29·872	29·280	13th	29·021	29th	62·1	55·3	85·1	+3·0	54·3	+2·4	69·7	+2·7	30·8	91·2	1st	45·0	28th
	Ambala	892	29·092	—·023	29·998	29·224	13th	28·979	29th	59·9	52·2	85·7	+3·2	52·6	+2·3	69·1	+2·7	33·1	91·8	1st	43·8	29th & 28th.
	Ludhiana	812	29·168	—·030	29·994	29·292	13th	29·031	25th	58·3	51·8	86·0	+5·1	52·7	+1·1	69·4	+3·1	33·3	92·9	1st	42·6	20th
	Lahore	702	29·289	—·041	29·984	29·392	13th	29·097	29th	56·7	51·9	85·5	+1·6	52·3	+4·1	68·9	+2·9	33·2	92·6	1st	41·8	25th
	Sialkot	830	29·145	—·037	29·990	29·268	13th	29·013	29th	59·7	54·2	83·3	+1·9	50·5	+0·2	66·9	+1·1	32·8	89·7	1st & 2nd	38·5	28th
	Rawalpindi	1,674	28·305	—·037	30·010	28·440	13th	28·166	29th	61·1	51·6	80·6	+2·7	49·0	+4·7	64·8	+3·7	31·6	88·7	2nd	38·0	26th & 27th.
12	Khushab	612	29·396	—·025	30·011	29·545	14th	29·244	29th	60·5	50·5	85·0	+1·4	49·1	—2·2?	67·1	—0·4?	35·9	92·2	9th & 10th.	37·2	24th, 21st & 25th.
	Lyallpur	605	29·364		29·972	29·477	13th	29·188	29th	59·1	53·3	86·1		49·9		67·9		36·2	94·5	1st	40·4	20th
	Montgomery	558	29·423	—·049	29·979	29·541	14th	29·224	29th	61·5	52·7	86·0	+1·2	52·9	+0·9	69·4	+1·1	33·1	93·7	1st	41·0	21st
	Multan	426	29·557	—·052	29·969	29·679	14th	29·373	29th	61·7	53·6	86·7	+1·9	56·6	+3·1	71·6	+2·5	30·1	95·2	1st	47·6	29th
	VII.—North-West Frontier Province.																					
1	Peshawar	1,113	28·884	—·047	30·046	29·036	13th	28·713	29th	52·2	47·7	79·8	+2·5	48·3	+2·2	64·0	+2·3	31·5	87·4	1st	37·1	26th
	Dera Ismail Khan	590	29·422	—·033	30·016	29·557	14th	29·259	29th	59·8	53·0	83·7	+1·1	51·8	+3·6	67·8	+2·3	31·9	91·2	1st	40·3	21st
	VIII.—Sind.																					
16	Jacobabad	186	29·823	—·033	29·977	29·366	14th	29·635	29th	65·6	54·2	85·0	—2·8?	54·3	+2·5	69·6	—0·1?	30·7	95·7	1st	44·6	25th
	Hyderabad	96	29·907	—·035	29·957	30·008	14th	29·761	29th	68·4	58·7	89·9	+0·8	62·7	+3·8	76·3	+2·3	27·2	98·0	2nd	55·5	23rd
	Karachi	13	30·003	—·036	29·967	30·129	14th	29·870	29th	73·8	64·3	87·0	+2·7	68·7	+2·0	77·9	+2·3	18·3	96·6	4th	65·0	27th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·210	—·013	30·003	29·363	13th	29·067	29th	66·8	53·5	89·6	+4·2	57·9	—1·4?	73·7	+1·4?	31·7	97·4	1st	48·1	27th
	Jodhpur	780	29·222	—·039	29·985	29·237	14th	29·115	29th	69·2	52·8	91·8	+2·1	60·4	+1·9	76·1	+2·0	31·4	98·4	2nd	51·6	28th
18	Jaipur	1,431	28·587	—·017	30·017	28·689	13th	28·456	29th	67·4	55·3	88·6	+2·1	56·0	+0·3	72·3	+1·2	32·6	94·7	1st	46·2	27th
	Ajmer	1,611	28·387	—·041	30·032	28·501	14th	28·263	29th	55·6	48·6	86·9	+2·5	53·7	+1·3	70·3	+1·9	33·2	93·4	1st	44·8	27th & 28th.
	Kotah	832	29·165	—·040	29·975	29·261	13th	29·055	29th	71·8	57·5	90·3	+2·1	61·0	+0·8	75·6	+1·5	29·3	95·8	1st	55·6	29th
	X.—Bombay.																					
19	Deesa	466	29·536	—·028	29·967	29·648	14th	29·445	22nd	72·9	59·0	96·8	+4·5	60·8	+2·9	78·8	+3·7	36·0	101·9	1st	51·2	29th
	Bhuj	334	29·657	—·040	29·948	29·768	14th	29·568	22nd	76·0	68·1	93·3	+3·6	60·9	—2·1	77·1	+0·7	32·4	97·8	3rd	56·4	28th
	Jamnagar	61								76·1	65·5	92·0	+2·0	61·7	—1·1	76·8	+0·5	30·3	96·5	2nd & 4th	58·6	19th
	Dwarka	37	29·956	—·054	29·939	30·066	13th	29·858	21st	76·6	71·0	90·3	+3·8						96·9	3rd		
	Rajkot	429	29·540	—·053	29·925	29·639	13th	29·449	21st	75·0	60·3	94·6	+3·8	65·3	+5·7?	79·9	+4·7?	29·3	97·4	1st & 10th	55·0	29th
	Veraval	*18*	29·950	—·048	29·911	30·036	13th	29·877	22nd	75·4	63·5	90·4	+1·6	69·7	+2·2	80·1	+1·9	20·7	96·3	2nd	60·4	12th
	Bhavnagar Para	55	29·943	—·033	29·945	30·041	14th	29·859	21st	72·9	59·3	94·1	+2·9	62·9	—0·1	78·5	+1·4	31·2	97·2	2nd	55·6	29th
	Surat	39	29·932	—·052	29·916	30·023	13th	29·852	22nd	74·5	61·4	95·2	+3·8	65·9	+2·4	80·6	+3·1	29·3	98·3	1st	60·1	29th & 30th.
	Ahmadabad	163	29·849	—·023	29·963	29·949	14th	29·764	22nd	77·6	60·8	95·8	+2·9	68·1	+2·6	81·9	+2·7	27·7	101·6	2nd	60·5	29th
25	Bombay	37	29·911	—·058	29·888	29·990	13th	29·849	22nd	76·9	70·0	89·7	+2·5	74·6	+1·1	82·1	+1·8	15·1	93·2	27th	70·7	30th
	Ratnagiri	207	29·713	—·061	29·860	29·783	13th	29·666	22nd	81·5	68·6	93·7	+3·1	72·9	+2·9	83·3	+3·0	20·8	98·5	15th	65·1	30th
	Marmagao	*60*	29·872	—·056	29·867	29·937	16th	29·824	25th	77·7	73·5	86·7	0	75·6	+2·6	81·2	+1·3	11·1	90·0	17th	69·9	29th
	Karwar	41	29·884	—·051	29·865	29·952	9th	29·822	7th	74·9	73·1	89·7	+2·1	72·8	+3·3	81·3	+2·7	16·9	93·7	16th	61·8	29th

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

B—*continued.*

at 212 stations in India, etc., in November, 1920—*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 30th November 1920.	Normal rainfall for this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
29	25	26	27	28	20	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.*
9	1	2	4	9	0	0	2	3	S 76° E		2·7			27		64	−1	·357	+·005	0·5	−0·4	0	−0·4	0	0·19	−0·19	0	0·19	−0·19	0	Patiala.
11	6	1	9	3	0	0	0	1	N 66° E	N 34° W	2·6	1·0	+1·6	37	+29	56	−18	·295	−·052	0·8	−0·1	0	−0·5	0	0·29	−0·29	0	0·29	−0·29	0	Ambala.
27	0	0	0	1	1	0	0	1	S	S 27° W	0·5	0·7	−0·2	3	−4	62	−2	·306	−·009	0·1	−1·4	0	−0·3	0	0·13	−0·13	0	0·13	−0·13	0	Ludhiana.
23	1	0	0	4	0	1	0	1	S 38° E	N 5° W	0·9	0·9	0	7	+6	71	0	·333	+·002	0·7	−0·5	0	−0·2	0	0·08	−0·08	0	0·08	−0·08	0	Lahore.
15	1	3	8	1	0	0	0	2	N 63° E	N 42° E	0·6	0·6	0	33	+18	67	+1	·353	+·008	1·2	+0·1	0	−0·3	0	0·12	−0·12	0	0·12	−0·12	0	Sialkot.
20	1	0	1	3	1	2	1	1	S	N 50° W	1·4	0·9	+0·5	9	−2	49	−15?	·270	+·014	0·9	−0·8	0	−0·5	0	0·29	−0·29	0	0·29	−0·29	0	Rawalpindi.
21	0	4	4	0	0	1	0	0	N 71° E	N 38° E	3·0	2·0	+1·0	23	+1	44	−6	·243	−·013	0·4	−0·8	0	−0·2	0	0·10	−0·10	0	0·10	−0·10	0	Khushab.
15	0	0	2	9	1	1	1	1	S 39° E		1·0			30		66		·338		0·9		0	−0·2	0	0·09	−0·09	0	0·09	−0·09	0	Lyallpur.
12	0	1	2	6	5	2	1	1	S 23° E	S 72° E	1·7	2·1	−0·4	33	+11	51	0	·288	+·015	0·6	−0·7	0	−0·2	0	0·07	−0·07	0	0·07	−0·07	0	Montgomery.
24	6	0	0	0	0	0	0	0	N	N 72° E	0·9	0·9	0	20	−3	55	−5	·303	−·020	0·2	−0·8	0	−0·2	0	0·08	−0·08	0	0·08	−0·08	0	Multan.
																															VII.—North-West Frontier Province.
29	1	0	0	0	0	0	0	0	N	S 31° W	0·2	1·5	−1·3	3	−17	70	+4	·281	+·005	0·9	−1·4	0	−0·6	0	0·31	−0·31	0	0·31	−0·31	0	Peshawar.
24	0	3	0	0	0	0	0	3	N	N 9° E	0·5	0·6	−0·1	14	+10	61	−5	·320	+·021	1·0	−0·5	0	−0·4	0	0·18	−0·18	0	0·18	−0·18	0	Dera Ismail Khan.
																															VIII.—Sind.
24	0	2	1	1	0	0	0	2	N 39° E	N 18° E	1·4	1·2	+0·2	10	−2	43	−14	·280	−·051	0·3	−1·0	0	−0·1	0	0·08	−0·08	0	0·08	−0·08	0	Jacobabad.
7	12	2	0	0	1	4	1	3	N 21° W	N 10° W	3·5	4·6	−1·1	43	+2	52	0	·367	−·005	0·1	−1·2	0	−0·1	0	0·07	−0·07	0	0·07	−0·07	0	Hyderabad.
2	9	11	3	0	0	0	4	1	N 19° E	N 49° E	5·6	5·5	+0·1	59	−8	57	−9	·483	−·035	0·7	−0·5	0	−0·1	0	0·05	−0·05	0	0·05	−0·05	0	Karachi.
																															IX.—Rajputana.
11	0	0	4	5	6	3	1	0	S 20° E	N 76° W	2·6	2·4	+0·2	43	+24	35	−14	·234	−·073	0·5	−0·8	0	−0·1	0	0·05	−0·05	0	0·05	−0·05	0	Bikaner.
17	1	11	1	0	0	0	0	0	N 45° E		1·2			43		26	−12	·164	−·071	1·2	+0·1	0	−0·2	0	0·12	−0·12	0	0·12	−0·12	0	Jodhpur.
21	1	3	2	1	0	0	1	1	N 45° E	N 1° W	1·4	2·0	−0·6	13	−12	42	−9	·282	−·039	1·2	−0·1	0	−0·3	0	0·15	−0·15	0	0·15	−0·15	0	Jaipur.
28	0	0	0	0	0	1	1	0	S 66° W	N 2° W	0·6	1·2	−0·6	7	−23	58	−5	·256	−·074	0·4	−0·7	0	−0·4	0	0·18	−0·18	0	0·18	−0·18	0	Ajmer.
26	0	0	0	2	0	1	1	0	S 9° W		0·8			7		37	−10	·289	−·034	0·7	+0·2	0	−0·3	0	0·08	−0·08	0	0·08	−0·08	0	Kotah.
																															X.—Bombay.
1	1	9	16	0	0	0	1	2	N 67° E	N 81° E	4·9	5·3	−0·4	72	+9	38	−3	·307	−·007	0·8	0	0	−0·2	0	0·11	−0·11	0	0·11	−0·11	0	Deesa.
[illegible]	5	1	0	1	0	0	0	0	N 15° E	N 34° W	2·2	4·0	−1·8	17	−18	65	+7?	·588	+·116?	1·0	0	0	−0·2	0	0·09	−0·09	0	0·09	−0·09	0	Bhuj.
3	1	17	7	0	2	0	0	0	N 60° E		4·4			73		55	+1	·500	+·040	0·4	−0·1	0	−0·1	0	0·01	−0·01	0	0·01	−0·01	0	Jamnagar.
0	6	19	2	0	0	0	0	3	N 32° E		7·6			79		73	+2	·668	+·017	1·4	+0·2	0	0	0	0·01	−0·01	0	0·01	−0·01	0	Dwarka.
9	3	9	7	1	0	0	0	1	N 55° E	N 48° E	3·0	3·7	−0·7	53	+6	39	−11	·329	−·076	2·1	+1·2	0	−0·3	0	0·21	−0·21	0	0·21	−0·21	0	Rajkot.
8	12	7	1	0	0	0	0	2	N 14° E	N 22° E	5·2	4·2	+1·0	62	−8	50	−4	·431	−·041	1·0	−0·4	0	−0·1	0	0·23	−0·23	0	0·23	−0·23	0	Veraval.
5	0	6	0	4	1	1	5	8	N 38° W	N 60° W	2·2	4·7	−2·5	23	−30	40	−14	·320	−·085	1·7	+0·4	0	−0·2	0	0·16	−0·16	0	0·16	−0·16	0	Bhavnagar Para.
6	0	8	12	4	0	0	0	0	N 82° E	N 55° E	1·9	3·4	−1·5	66	+13	43	−17	·366	−·122	1·5	+0·7	0	−0·3	0	0·22	−0·22	0	0·22	−0·22	0	Surat.
0	0	9	15	3	0	0	0	3	N 74° E	N 55° E	3·5	3·1	+0·4	72	+12	33	−13	·312	−·065	1·2	−0·1	0	−0·3	0	0·13	−0·13	0	0·13	−0·13	0	Ahmadabad.
0	2	8	8	6	2	2	1	1	N 87° E	N 73° E	5·4	7·0	−1·6	49	−29	70	−3	·642	−·032	2·2	+0·5	0	−0·7	0	0·44	−0·44	0	0·44	−0·44	0	Bombay.
4	0	2	10	14	0	0	0	0	S 68° E	S 78° E	5·6	5·5	+0·1	72	+9	49	−9	·526	−·038	1·3	−0·4	0	−0·9	0	0·73	−0·73	0	0·73	−0·73	0	Ratnagiri.
1	0	9	18	1	0	0	0	0	N 78° E	S 81° E	4·5	5·3	−0·8	89	+11	82	+2	·779	+·058	5·2	+3·1	1	−0·8	0·15	0·99	−0·84	0·15	0·99	−0·84	0·15	Marmagao.
29	1	0	0	0	0	0	0	0	N	N 65° E	1·0	2·0	−1·0	3	−67	91	+10	·795	+·134	4·9	+2·9	0	−2·5	0	1·73	−1·73	0	1·73	−1·73	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. 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
	X.—Bombay. —*concld.*																					
26	Malegaon	1,430	28·556	—·036	29·959	28·616	14th	28·482	29th	70·2	56·4	91·3	+3·8	56·8	−0·1	74·1	+1·9	34·5	93·7	1st & 30th	49·4	29th
	Ahmadnagar	2,154	27·837	—·039	29·917	27·935	12th	27·767	28th	73·5	58·1	89·3	+3·8	60·9	+4·1	75·1	+3·9	26·4	92·7	1st	50·7	29th
	Poona	1,846	28·147	—·023	29·964	28·230	14th	28·093	& 29th 29th	67·9	58·3	89·2	+2·5	56·6?	−2·5?	72·9?	+0·1?	32·6	91·1	8th	48·7	30th
	Sholapur	1,590	28·373	—·046	29·909	28·458	16th	28·303	29th	74·8	59·6	90·6	+3·0	65·4	+3·3	78·1	+3·1	25·2	92·8	1st & 10th	55·1	30th
	Bijapur	*1,948*	28·014	—·043	29·902	28·103	16th	27·950	29th	73·2	62·4	88·2	+1·9	63·1	+2·0	75·6	+1·9	25·1	90·8	11th	53·3	30th
	Belgaum	2,562	27·422	—·029	29·406	27·486	16th	27·350	29th	70·6	63·4	85·8	+3·4	63·5	+2·1	74·7	+2·9	22·3	88·6	6th	55·8	29th
	XI.—Central India.																					
20	Neemuch	1,626	28·377	—·037	29·974	28·463	13th	28·273	29th	72·0	56·0	87·5	+2·6	56·4	+1·6	72·0	+2·1	31·1	92·9	1st	50·0	28th
	Indore	1,823	28·178	—·027	29·966	28·268	14th	28·075	29th	72·0	61·5	87·6	+3·9	56·1	+1·8	71·9	+2·9	31·5	91·7	1st	48·6	28th
2	Nowgong	754	29·249	—·030	29·993	29·351	13th	29·159	29th	62·6	55·0	85·9	+3·6	53·5	+0·5	69·7	+2·1	32·4	90·9	1st	44·5	28th
	Sutna	1,041	28·956	—·022	29·989	29·046	13th	28·882	29th	64·7	55·5	84·1	+2·7	55·5	+1·4	69·8	+2·1	28·6	88·3	1st	47·3	30th
	XII.—Central Provinces.																					
22	Buldana	2,134								74·9	57·8	87·2	+4·9	64·3	+2·4	75·8	+3·7	22·9	90·0	1st	58·4	29th
	Akola	925	29·082	—·026	29·974	29·172	14th	28·998	29th	72·5	57·2	93·0	+5·4	58·5	+2·4	76·3	+3·9	33·5	96·2	1st & 6th	49·8	29th
	Amraoti	1,215	28·782	—·028	29·955	28·868	13th	28·689	29th	74·9	57·3	90·5	+4·0	64·8	+3·1	77·7	+3·5	25·7	93·4	10th	58·1	28th
23	Khandwa	1,044	28·952	—·030	29·975	29·044	13th	28·867	25th	69·2	57·1	91·8	+4·3	55·6	−0·4	73·7	+1·9	36·2	95·5	1st	48·9	28th
	Hoshangabad	1,006	29·012	—·022	30·009	29·097	13th	28·933	25th	63·8	56·3	88·0	+3·7	56·6	−0·1	72·3	+1·8	31·4	92·1	1st	47·6	28th
	Saugor	1,807	28·160?	—·064?	29·945?	28·283	13th	28·060	29th	68·5	53·9	89·8	+4·6	60·3?	+2·6?	73·1?	+3·6?	26·4	90·4	1st	52·4	28th
	Jubbulpore	1,327	28·654	—·042	29·982	28·749	13th	28·567	29th	62·1	54·0	84·1	+2·1	53·0	+0·5	68·6	+1·3	31·1	87·8	1st	44·7	29th
	Seoni	2,033	27·974	—·016	29·988	28·866	13th	27·878	29th	67·0	55·0	82·9	+1·2	55·8	+0·7	69·4	+0·9	27·1	86·8	1st	48·7	29th
	Nagpur	1,017	28·992	—·017	29·982	29·082	13th	28·906	29th	71·0	57·2	88·8	+3·4	58·7	−0·9	73·8	+1·3	30·1	91·6	1st	49·8	30th
24	Pendra	2,040	27·967	—·018	29·978	28·048	13th	27·872	29th	68·7	56·9	81·6	+2·1	55·9	+0·7	68·8	+1·4	25·7	83·8	5th	48·0	30th
	Raipur	970	29·016	—·037	29·958	29·111	13th & 15th.	28·941	29th	70·1	58·7	86·7	+3·5	61·0	+0·8	73·8	+2·1	25·7	90·3	5th	52·6	30th
	Chanda	*634*	29·367	—·037	29·964	29·457	13th	29·294	29th	70·5	60·4	89·4	+4·0	57·6	−0·4	73·5	+1·8	31·8	92·5	1st	49·0	30th
	Jagdalpur	1,813	28·165		29·966	28·273	12th	28·098	30th	65·3	59·9	83·5		57·2		70·3		26·3	85·7	10th	44·2	30th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·097	—·039	29·949	28·184	13th	28·017	29th	73·5	55·5	89·8	+3·1	62·9	+4·4	76·3	+3·7	26·9	92·8	1st	53·6	29th
	Nizamabad	1,248	28·730	?	29·937	28·816	16th	28·655	29th	73·6	60·4	90·6	+5·6	60·1	+0·8	75·4	+3·2	30·5	94·8	5th	50·2	29th
	Bidar	*2,165*																				
28	Gulbarga	1,503	28·462	—·044	29·913	28·545	16th	28·395	29th	74·2	63·3	91·0	+3·6	65·0	+2·5	78·0	+3·1	26·0	94·6	11th	57·6	29th
	Raichur	*1,311*	28·653	—·027	29·910	28·731	16th	28·597	29th	77·0	67·2	89·9	+3·4	69·4	+2·2	79·6	+2·8	20·5	95·2	10th	58·5	29th
	Hyderabad (Deccan)	1,738	28·267	—·022	29·933	28·348	16th	28·185	29th	73·5	65·8	86·3	+1·6	65·1	+2·9	75·7	+2·3	21·2	90·5	5th	54·1	29th
	Hanamkonda	877	29·106	—·031	29·932	29·194	14th	29·047	29th	77·3	65·4	83·6	+3·9	66·9	+2·9	78·3	+3·4	22·7	93·8	5th	57·6	29th & 30th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·556	—·037	29·871	27·624	16th	27·510	22nd	73·0	66·7	84·7	+1·8	66·5	+2·4	75·6	+2·1	18·2	90·0	11th	58·7	29th
	Hassan	3,149	26·853	—·026	29·875	26·909	14th	26·802	29th	69·9	67·2	80·6	+0·3	62·9	+2·9	71·8	+1·6	17·7	84·5	7th	53·5	29th
	Bangalore	3,021	26·874	—·033	29·887	27·040	13th	26·898	23rd	68·9	65·4	79·6	0	63·9	+2·0	71·7	+1·0	15·7	85·1	11th	58·2	29th
	Mysore	2,518	27·447	—·041	29·875	27·515	17th	27·377	23rd	71·1	67·5	80·6	−2·0	66·2	+2·2	73·4	+0·1	14·4	86·6	12th	61·0	6th

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

B—*continued.*

at 212 stations in India, etc., in November, 1920—*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 30th Nov. 1920.	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.*
16	0	0	0	0	0	11	2	1	S 56° W	N 74° W	3·4	3·5	−0·1	40	−12	38	−13	·285	−·083	2·1	+0·5	0	−1·0	0	0·60	−0·60	0	0·60	−0·60	0	Malegaon.
20	0	1	3	3	2	0	0	1	S 62° E	N 76° E	2·6	4·8	−2·2	20	+ 5	36	−20	·295	−·118	0·5	−1·2	0	−1·2	0	0·62	−0·62	0	0·62	−0·62	0	Ahmadnagar.
23	1	1	2	2	0	0	0	1	N 74° E	S 76° E	3·5	4·6	−1·1	10	−17	54	− 7	·369	−·051	3·0	+1·2	0	−1·6	0	0·88	−0·88	0	0·88	−0·88	0	Poona.
1	0	7	11	10	1	0	0	0	S 83° E	S 87° E	6·9	6·1	+0·8	76	+12	37	−14	·325	−·088	3·8	+1·2	0	−1·3	0·03	0·87	−0·84	0·03	0·87	−0·84	0·03	Sholapur.
10	1	5	8	4	2	0	0	0	S 89° E	S 76° E	0·6	2·6	−2·0	48	− 6	53	−12	·437	−·063	0·9	−1·6	0	−1·6	0	0·85	−0·85	0	0·85	−0·85	0	Bijapur.
17	2	4	7	0	0	0	0	0	N 64° E	S 87° E	3·1	7·9	−4·8	37	−21	66	+ 4	·498	+·039	4·0	+1·3	0	−2·1	0·07	1·40	−1·33	0·07	1·40	−1·33	0·06	Belgaum.
																															XI.—Central India.
28	0	0	2	0	0	0	0	0	E	N 51° E	1·2	3·9	−2·7	7	−41	32	−16	·251	−·067	0·6	−0·3	0	−0·3	0	0·17	−0·17	0	0·17	−0·17	0	Neemuch.
16	0	2	4	3	0	0	4	1	E	N 45° E	0·9	1·4	−0·5	9	− 9	53	− 2	·412	+·033?	1·0	−0·1	0	−0·7	0	0·42	−0·42	0	0·42	−0·42	0	Indore.
16	2	1	0	2	4	3	2	0	S 23° W	N 53° W	0·5	0·7	−0·2	20	+ 7	59	−11	·336	−·054	1·8	+0·7	0	−0·7	0	0·37	−0·37	0	0·37	−0·37	0	Nowgong.
30	0	0	0	0	0	0	0	0	Calm	N 13° W	0·6	2·3	−1·7			53	−11	·329	−·048	0·9	−0·4	0	−0·7	0	0·35	−0·35	0	0·35	−0·35	0	Satna.
																															XII.—Central Provinces.
0	0	2	14	12	1	0	1	0	S 71° E		3·8	3·7	+0·1	80		31		·265		2·8		0	−1·0	0	0·59	−0·59	0	0·59	−0·59	0	Buldana.
11	9	5	10	4	0	0	0	0	N 87° E	N 89° E	3·6	2·6	+1·0	53	+13	33	−23	·267	−·121	2·1	+0·7	0	−0·8	0	0·44	−0·44	0	0·44	−0·44	0	Akola.
0	0	19	10	1	0	0	0	0	N 62° E	N 67° E	3·9	2·8	+1·1	86	+35	28	−21	·240	−·143	1·8	+0·3	0	−1·0	0	0·54	−0·54	0	0·54	−0·44	0	Amraoti.
5	0	6	8	3	3	2	2	0	S 76° E	N 74° E	2·5	2·0	+0·5	40	+15	43	−12	·309	−·046	2·6	+1·3	0	−0·8	0	0·50	−0·50	0	0·50	−0·50	0	Khandwa.
8	0	21	0	1	0	0	0	0	N 48° E	N 66° E	2·5	1·5	+1·0	65	+ 6	60	− 5	·359	−·030	0·7	−0·5	0	−0·7	0	0·57	−0·57	0	0·57	−0·57	0	Hoshangabad.
12	0	2	3	6	3	3	1	0	S 35° E	S 73° E	2·7	2·0	+0·7	33	0	34	−15	·241	−·089	0·9	−0·1	0	−0·7	0	0·49	−0·49	0	0·49	−0·49	0	Saugor.
8	0	0	5	11	5	0	1	0	S 42° E	S 37° E	1·0	1·2	−0·2	56	+15	56	−17	·330	−·075	0·6	−0·5	0	−0·9	0	0·53	−0·53	0	0·53	−0·53	0	Jubbulpore.
19	4	4	3	0	0	0	0	0	N 41° E	N 36° E	2·7	1·7	+1·0	30	−13	43	−17	·285	−·099	1·3	0	0	−0·9	0	0·57	−0·57	0	0·57	−0·57	0	Seoni.
5	15	7	2	1	0	0	0	0	N 21° E	N 21° E	2·8	2·7	+0·1	69	+39	38	−21	·284	−·126	2·1	+0·4	0	−1·0	0	0·70	−0·70	0	0·70	−0·70	0	Nagpur.
29	1	0	0	0	0	0	0	0	N		2·1			3		45	−11	·320	−·024	3·7	+2·1?	0	−0·9	0	0·41	−0·41	0	0·41	−0·41	0	Pendra.
22	0	2	5	1	0	0	0	0	N 84° E	N 40° E	1·5	2·3	−0·8	23	0	50	−15	·378	−·066	1·1	−0·6	0	−0·9	0	0·39	−0·39	0	0·39	−0·39	0	Raipur.
5	5	5	4	3	0	2	2	4	N 24° E	N 39° E	2·4	1·2	+1·2	27	− 2	53	−18	·400	−·086	2·3	+0·3	0	−1·3	0	0·72	−0·72	0	0·72	−0·72	0	Chanda.
30	0	0	0	0	0	0	0	0	Calm		1·6					73		·465		0·2		0	−1·0	0	0·54	−0·54	0	0·54	−0·54	0	Jagdalpur.
																															XIII.—Hyderabad.
1	1	1	18	9	0	0	0	0	S 80° E		5·3			82		27	−21	·223	−·170	2·4	+0·9	0	−0·8	0	0·63	−0·63	0	0·63	−0·63	0	Aurangabad.
21	1	4	1	1	1	1	0	0	N 69° E		2·0			13		43	−26	·364	−·160	3·1	+1·1	0	−0·8	0	0·61	−0·61	0	0·61	−0·61	0	Nizamabad.
																															Bidar.
1	0	9	16	1	1	2	0	0	S 81° E	N 81° E	5·9	5·8	+0·1	72	+23	53	−10	·554	+·057	1·9	−0·3	0	−1·3	0	0·72	−0·72	0	0·72	−0·72	0	Gulbarga.
2	0	1	15	10	0	1	1	0	S 72° E	N 86° E	5·4	5·3	+0·1	72	+ 8	60	− 4	·551	+·010	3·6	+1·0	0	−1·6	0	0·75	−0·75	0	0·75	−0·75	0	Raichur.
22	0	1	4	3	0	0	0	0	S 78° E	S 72° E	2·1	2·6	−0·5	23	0	65	− 4	·542	+·032	3·8	+1·2	0	−2·0	0	0·82	−0·82	0	0·82	−0·82	0	Hyderabad (Deccan).
12	3	0	1	7	0	0	0	7	N 18° E		2·4			10		51	−12	·477	−·034	5·4	+2·6	0	−1·1	0	0·67	−0·67	0	0·67	−0·67	0	Hanamkonda.
																															XIV.—Mysore.
7	0	2	10	8	0	1	2	0	S 71° E	S 84° E	3·8	4·5	−0·7	49	−16	71	+ 2	·575	+·028	5·1	+1·0	0	−3·2	0·05	1·77	−1·72	0·05	1·77	−1·72	0·04	Chitaldrug.
6	0	2	16	3	0	0	2	1	E	N 77° E	3·3	2·2	+1·1	56	−19	87	+11	·636	+·085	6·3	+1·1	5	+0·7	2·06	2·63	−0·57	2·06	2·63	−0·57	0·77	Hassan.
3	0	11	13	1	2	0	0	0	N 77° E	N 71° E	5·0	3·7	+1·3	69	− 5	83	+ 5	·583	+·038	7·5	+2·8	4	−0·4	2·73	2·66	+0·07	2·73	2·66	+0·07	1·54	Bangalore.
8	2	11	5	2	1	1	0	0	N 64° E	N 67° E	4·1	6·3	−2·2	46	−21	83	+ 6	·625	+·040	7·4	+1·5	4	+0·7	1·58	2·21	−0·63	1·58	2·21	−0·63	0·75	Mysore.

Table

(2) Abstract of observations taken at 8 hrs.

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
	XV.—Madras.																					
30	Mangalore	72	29·861	—·015	29·861	29·926	9th	29·791	24th	80·5	75·5	88·4	+0·3	75·0	+2·5	81·7	+1·4	13·4	92·3	17th	69·0	29th
	Calicut	27	29·897	—·042	29·853	29·973	9th	29·813	23rd	77·8	75·8	84·5	—2·6	75·1	+1·6	79·9	—0·5	9·4	89·0	7th	72·0	29th
	Cochin	9	29·916	—·042	29·853	30·002	9th	29·841	23rd	79·3	75·6	85·5	—2·2	75·1	+0·7	80·3	—0·7	10·4	89·2	12th	72·3	28th
	Trivandrum	198	29·723	—·040	29·853	29·805	9th	29·640	22nd	76·1	74·8	81·2	—1·4	73·9	—0·2	77·5	—0·8	7·3	85·3	4th	71·5	24th
31	Pamban	37	29·868	—·061	29·833	29·924	9th	29·774	23rd	77·9	75·6	87·2	+2·3	76·7	+1·0	81·9	+1·7	10·5	91·7	10th	72·5	30th
	Madura	447	29·485	—·044	29·868	29·548	13th	29·407	24th	76·8	74·3	82·1*	—5·1*	73·1	+0·7	77·3*	—2·2	9·0	90·9	10th	64·3	29th
	Pudukkottai	318	29·622	—·043	29·875	29·685	13th	29·540	23rd	76·3	72·7	83·3	—3·2	72·7	+0·8	78·0	—1·2	10·6	94·9	6th	66·4	30th
	Negapatam	31	29·889	—·050	29·849	29·952	16th	29·839	23rd	77·2	74·5	82·5	—2·0	74·2	—0·1	78·2	—1·1	8·3	90·1	10th	69·2	27th & 28th.
	Trichinopoly	255	29·674	—·051	29·865	29·732	14th	29·588	23rd	76·8	74·3	83·9	—3·4	72·6	+0·7	78·3	—1·3	11·3	93·6	10th	67·0	30th
	Coimbatore	1,341	28·614	—·021	29·899	28·671	13th	28·533	23rd	74·0	70·7	82·0	—4·0	69·8	+1·0	75·9	—1·5	12·2	91·2	4th	65·7	27th
	Salem	913	29·028	—·031	29·886	29·098	14th	28·946	23rd	74·1	71·8	83·7	—3·8	70·5	+1·8	77·1	—1·0	13·2	91·3	10th & 11th.	64·4	27th
	Cuddalore	37	29·893	—·051	29·860	29·964	13th	29·810	23rd	76·7	74·3	82·2	—2·8	73·6	+1·6	77·9	—0·6	8·6	90·3	10th	69·6	28th
	Vellore	707	29·238	—·045	29·892	29·312	13th	29·187	23rd	74·2	72·1	83·2	—1·3	70·5	+1·8	76·9	+0·3	12·7	92·5	10th	65·0	29th & 30th.
	Madras	22	29·920	—·047	29·874	30·002	15th	29·865	25th	78·1	75·5	84·6	—0·6	74·2	+2·0	79·4	+0·7	10·4	92·4	10th	69·2	30th
32	Cuddapah	428	29·530	—·041	29·900	29·602	14th	29·495	29th	76·5	72·4	86·3	—2·4	71·6	+2·4	78·9	0	14·7	93·0	10th	63·4	30th
	Bellary	1,475	28·487	—·032	29·908	28·553	13th	28·434	29th	75·7	68·0	89·9	+2·5	67·5	+1·8	78·7	+2·1	22·4	95·3	11th	59·7	29th
	Kurnool	923	29·017	—·034	29·912	29·110	13th & 14th.	28·984	29th	74·5	69·0	90·8	+2·6	68·2	+4·0	79·5	+3·3	22·6	95·4	10th	52·5	29th
33	Nellore	66	29·887	—·044	29·888	29·963	13th	29·838	22nd	77·1	75·0	84·4	—1·7	72·9	+1·4	78·7	—0·1	11·5	91·1	9th	65·9	30th
	Masulipatam	15	29·957	—·043	29·907	30·056	13th	29·898	29th	77·1	72·0	86·6	+1·3	71·3	+0·2	79·0	+0·7	15·3	90·5	4th	63·9	29th
	Cocanada	26	29·951	—·033	29·914	30·054	13th	29·897	29th	76·9	71·4	84·3	+1·4	72·0	+1·3	78·1	+1·3	12·3	88·8	4th	63·9	29th
	Waltair (Vizagapatam)	*226*	29·914	—·040	29·911	30·047	13th	29·865	2nd	79·0	70·6	85·5	+1·1	74·3	+2·0	79·9	+1·5	11·2	90·5	4th	64·2	29th
	Calingapatam	19	29·953		29·913	30·073	13th	29·879	3rd	75·1	70·3	85·6		68·8		76·9		16·8	90·4	4th	58·4	30th
	Gopalpur	33	29·939	—·029	29·937	30·052	13th	29·872	3rd	73·8	70·3	86·5	+3·0	67·9	+1·6	77·2	+2·3	18·6	88·9	2nd	58·6	30th
	Bay Stations.																					
1	P. V. Fraser	8	29·930		29·923	30·083	13th	29·895	7th	79·9	72·5											
	Port Blair	58	29·847	—·048	29·836	29·935	13th	29·768	29th	81·2	77·5	85·2	—1·3	77·0	0	81·1	—0·7	8·3	88·0	21st	73·9	25th
	Table Island	90	29·831	—·029	29·855	29·935	13th	29·739	29th	81·4	77·7	84·0	—1·4	78·6	+1·1	81·3	—0·1	5·4	86·0	28th	74·3	1st
	Kashmir.																					
13	Muzaffarabad		27·639			27·803	13th	27·477	29th	52·2	46·4	78·3		48·3		63·3		30·0	87·2	1st	29·1	26th
	Srinagar	5,204	25·012	—·022	24·983	25·167	14th	24·830	29th	40·2	39·8†	61·8	+0·5	30·3	—1·8	46·0	—0·7	31·5	71·5	1st	20·8	28th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·905	+·007	20·873	21·056	15th	20·608	29th	23·4		45·6	+1·3	20·8	+4·9	33·3	+3·1	24·8	52·2	14th	13·2	23rd, 27th & 28th.
	Leh	*11,503*	19·789	—·009	19·757	19·945	15th	19·550	30th	28·9		50·9	+3·2	21·8	+1·1	36·4	+2·1	29·1	59·3	4th	14·4	23rd
	Skardu	*7,505*	22·986	—·047	22·956	23·170	15th	22·686	30th	34·5	33·6‡	55·1	+0·3	31·4	+1·2	43·3	+0·7	23·7	63·7	8th & 9th	24·4	28th
	Gilgit	4,890	25·282	—·032	25·255	25·487	14th	24·988	30th	47·5	41·7	62·8	—0·5	42·0	—0·8	52·4	—0·7	20·2	·8	4th	33·6	27th

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

* Mean of 17 days.
† " " 22 "
‡ " " 9 "

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

B—*continued.*

at 212 stations in India, etc., in November, 1920—*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 to 30th Nov. 1920.	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	0	7	18	3	0	0	0	0	N 83° E	S 82° E	3·4	1·9	+1·5	82	+5	78	+5	·813	+·080	5·2	+1·7	9	+4·8	4·84	2·85	+1·99	4·84	2·85	+1·99	1·28	Mangalore.
9	1	1	11	5	1	2	0	0	S 73° E	N 87° E	2·3	4·3	−2·5	49	−25	91	+9	·860	+·067	6·7	+2·5	8	+2·1	7·00	4·82	+2·18	7·00	4·82	+2·18	2·68	Calicut.
17	1	5	6	1	0	0	0	0	N 63° E	N 39° E	1·7	3·0	−1·3	37	−30	83	+3	·835	+·038	6·1	+1·2	10	+1·7	7·75	6·17	+1·58	7·75	6·17	+1·58	4·78	Cochin.
12	5	5	2	1	1	0	0	4	N 20° E	N 5° W	2·3	2·6	−0·3	33	+7	91	+9	·844	+·047	8·2	+2·6	17	+7·7	18·13	6·37	+11·76	18·13	6·37	+11·76	2·69	Trivandrum.
2	11	6	1	0	1	1	2	6	N 6° W	N 21° E	10·5	7·4	+3·1	59	+7	90	+5	·823	−·038	6·1	+1·4	24	+11·7	27·25	11·18	+16·07	27·25	11·18	+16·07	3·10	Pamban.
1	10	7	1	0	1	0	3	9	N	N 3° E	2·7	4·8	−2·1	56	−14	89	+13	·816	+·072	8·0	+2·9	15	+7·6	12·76	4·80	+7·96	12·76	4·80	+7·96	2·72	Madura.
7	16	5	0	0	0	0	1	1	N 6° E		4·0		−3·9	67		84	+4	·758	+·018	7·8	+1·7	18	+9·5	17·05	5·59	+11·46	17·05	5·59	+11·46	6·35	Pudukkottai.
3	4	4	2	0	0	1	4	12	N 30° W	N 30° W	6·7	4·2	+2·5	56	+8	88	+6	·820	+·008	6·9	+0·4	22	+9·9	54·83	15·84	+38·99	54·83	15·84	+38·99	7·60	Negapatam.
8	8	5	0	0	0	1	5	3	N 19° W	N 13° E	1·9	2·8	−0·9	46	+9	89	+10	·816	+·065	7·4	+2·0	20	+12·0	19·35	5·09	+14·26	19·35	5·09	+14·26	6·25	Trichinopoly.
8	5	7	5	0	2	0	1	2	N 39° E	N 81° E	2·8	1·8	+1·0	37	−11	83	−2	·704	−·013	5·5	+0·2	13	+6·4	7·00	3·43	+3·57	7·00	3·43	+3·57	1·27	Coimbatore.
24	0	0	1	0	0	4	0	1	S 49° W	N 50° E	1·4	2·3	−0·9	10	−17	69	+11	·747	+·037	7·4	+2·5	14	+8·2	7·04	3·58	+3·46	7·04	3·58	+3·46	1·49	Salem.
5	8	1	0	0	0	0	3	13	N 32° W	N 25° W	4·8	1·6	+3·2	69	−1	89	+2	·814	+·001	7·7	+2·7	16	+5·3	40·10	13·29	+26·81	40·10	13·29	+26·81	8·66	Cuddalore.
30	0	0	0	0	0	0	0	0	Calm		0·8					90	+6	·759	+·049	5·4	+1·2	13	+5·1	8·63	6·15	+2·48	8·63	6·15	+2·48	1·53	Vellore.
13	6	4	0	0	0	0	2	5	N 12° W	N 1° E	3·0	4·7	−1·7	40	−23	88	+5	·845	+·053	7·4	+2·0	16	+4·8	30·50	13·30	+17·20	30·50	13·30	+17·20	5·92	Madras.
14	4	0	2	3	1	0	1	5	N 6° W	N 89° E				15	−26	82	+7	·742	+·056	6·2	+2·1	6	+0·8	2·90	3·47	−0·57	2·90	3·47	−0·57	1·36	Cuddapah.
14	1	4	6	4	1	0	0	0	E	S 85° E	2·3	2·3	0	39	+6	66	+1	·587	+·056	5·0	+1·1	1	−2·1	0·21	2·04	−1·83	0·21	2·04	−1·83	0·14	Bellary.
28	0	1	1	0	0	0	0	0	N 66° E	N 34° W	1·0			7	+6	75	+3	·644	+·065	4·3	+1·5	0	−2·2	0·09	1·11	−1·02	0·09	1·11	−1·02	0·09	Kurnool.
7	6	4	2	0	0	0	1	10	S 12° W	N 44° W	1·6	3·4	−1·8	53	−2	91	+8	·241	+·070	6·6	+0·2	9	+1·1	16·78	9·90	+6·88	16·78	9·90	+6·88	3·92	Nellore.
1	2	10	0	0	0	0	3	8	N 5° W	N 14° E	4·3	3·9	+0·4	69	−9	77	−3	·720	−·015	4·0	+0·3	1	−3·3	0·62	5·15	−4·53	0·62	5·15	−4·53	0·50	Masulipatam.
1	10	15	1	0	0	0	0	3	N 22° E	N 12° E	7·1	7·3	−0·2	82	−1	75	+1	·702	+·039	5·8	+2·2	3	−1·2	0·90	4·97	−4·07	0·90	4·97	−4·07	0·43	Cocanada.
1	8	11	0	0	0	0	2	8	N	N 15° W	5·5			71	+28	65	+2	·631	+·038	6·9	+3·0	3	−0·5	3·49	3·29	+0·20	3·49	3·29	+0·20	2·02	Waltair (Vizagapatam.)
1	11	4	1	0	0	0	2	11	N 15° W		5·6			77		78		·633		2·9		1	−0·8	0·16	2·54	−2·38	0·16	2·54	−2·38	0·16	Calingapatam.
0	2	1	0	0	0	0	0	0	N 1° E	N 25° W	6·2	6·1	+0·1	99	+12	83	+5	·697	+·061	2·8	+1·2	0	−2·9	0	3·89	−3·89	0	3·89	−3·89	0	Gopalpur.
																															Bay Stations.
5	4	13	6	1	0	0	1	0	N 49° E					63		69		·704		5·3		5	+3·3	2·64	1·80	+0·84	2·64	1·80	+0·84	1·20	P. V. Fraser.
0	4	9	6	5	2	0	0	4	N 60° E	N 72 E	5·2	4·9	+0·3	49	+29	84	−1	·895	+·015	5·4	−0·4	13	+1·0	10·35	9·44	+0·91	10·35	9·44	+0·91	3·28	Port Blair.
0	5	12	9	1	2	1	0	0	N 60° E		8·1			66		84	+4	·900	+·051	5·1	−1·5	6	−0·6	3·83	5·59	−1·76	3·83	5·59	−1·76	1·39	Table Island.
																															Kashmir.
24	0	1	0	1	2	1	1	0	S 5° E		0·9			10		59		·248		2·8		0	−2·0	0·02	0·88	−0·86	0·02	0·88	−0·86	0·02	Muzaffarabad.
18	2	1	4	3	1	1	0	0	S 80° E	S 53° E	1·5	1·9	−0·4	20	−3	76*	−11	·212*	+·023	2·7	+0·3	0	−1·4	0	0·48	−0·48	0	0·48	−0·48	0	Srinagar.
																															Gulmarg.
16	1	1	0	0	0	2	7	3	N 77° W		3·0			33						5·8	+3·1	1	−0·1	0·23	0·46	−0·23	0·23	0·46	−0·22	0·10	Dras.
28	1	1	0	0	0	0	0	0	N 24° E	S 46° W	1·2	1·5	−0·3	7	−7					2·1	−1·3	0	−0·2	0	0·03	−0·03	0	0·03	−0·03	0	Leh.
25	0	0	0	1	2	2	0	0	S 10° W		2·8			13		59†		·136†		3·7	+0·2	0	−0·2	0	0·07	−0·07	0	0·07	−0·07	0	Skardu.
28	0	0	0	0	0	2	0	0	S 45° W		0			3		61	+15	·202	+·050	4·6	+0·6	1	+0·8	0·25	0·05	+0·20	0·25	0·05	+0·20	0·22	Gilgit.

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

* Mean of 22 days.
† " " 9 "

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. 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
	Baluchistan.																					
15	Fort Sandeman	4,614	25·517		25·486	25·647	14th	25·314	29th	44·6	39·4*	74·9		41·1		58·0		33·8	84·7	1st	28·9	20th
	Quetta	5,502	24·750	−·026	24·710	24·880	14th	24·528	29th	33·6	34·5†	68·8	+3·0	31·9	−1·3	50·3	+0·9	36·9	79·3	2nd	20·9	18th
	Chaman	4,311	25·770	−·053	25·732	25·938	17th	25·526	29th	50·7	44·9‡	71·1	+3·7	45·1	+2·4	58·1	+3·1	26·0	83·6	2nd	27·2	18th
	Kalat	6,630	23·811		23·774	23·949	14th	23·619	29th	34·3	34·0§	67·2	0	33·3		50·3		33·9	77·0	2nd	17·4	18th
	Dalbandin	2,772	27·232		27·194	27·463	17th	27·002	29th	47·4	39·6‖	78·8		40·5		59·7		38·3	91·2	2nd	24·7	19th
	Pasni		30·025		29·985	30·133	14th	29·931	29th	67·2	60·0	86·9		61·1		74·0		25·8	95·3	8th	52·4	23rd
	Panjgur		26·846		26·806	27·008	17th	26·676	29th	49·1	41·1¶	77·9		45·6		61·7		32·3	91·2	2nd	34·8	18th
	Seistan (c)††		28·324			28·680	16th	28·150	10th	43·3	** 42·4	72·4		40·4		56·4		32·0	92·1	1st	25·4	19th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·516	−·034	24·492	24·639	14th	24·375	29th	50·1	40·3	67·2	+1·6	39·8	−1·2	53·5	+0·2	27·4	75·0	1st	29·3	24th
	Cherat	*4,956*	25·799	−·024	25·767	25·940	14th	25·619	29th	56·8	46·2	68·1	−0·9	52·4	+2·5	59·2	+0·8	13·7	77·1	1st	43·3	21st
	Drosh (c)		25·187			25·360	14th	24·975	29th	47·7	40·4	64·0	−1·6	44·7	+0·3	54·3	−0·7	19·3	77·1	3rd & 4th	32·0	18th
	Murree	6,181	24·067	−·005	24·035	24·194	13th	23·909	28th	52·5	** 42·0	61·4	+0·6	49·2	+3·7	55·3	+2·1	12·2	70·6	10th	41·6	20th
	Simla	7,232	23·194	+·010	23·156	23·301	13th	23·078	29th	51·2	40·1	57·6	+1·5	46·5	+1·6	52·1	+1·5	11·1	62·5	4th, 5th & 6th.	40·2	23rd
	Chakrata	7,072	23·485		23·445	23·597	13th	23·373	29th	53·1	43·7	64·6	+3·7	46·8	+2·9	55·7	+3·3	17·8	69·8	7th	40·1	22nd
	Mukteswar	7,592	22·926	0	22·885	23·027	13th	22·820	29th	50·6	** 41·4	61·5	+1·1	42·5	−0·6	52·0	+0·3	19·0	68·4	7th	37·0	23rd
	Darjiling	7,432	23·027	−·040	22·982	23·137	5th	22·897	29th	48·6	44·8	57·6	+2·5	44·2	+1·5	50·9	+2·0	13·4	66·3	6th	39·6	23rd, 24th & 27th.
	Kalimpong		26·089		26·043	26·204	13th	25·962	29th	57·5	53·9	69·2		53·9		61·3		15·3	76·1	7th	51·0	24th, 28th & 29th.
	Shillong	4,920	25·223	−·007	25·175	25·333	13th	25·089	29th	57·6	51·2	67·8	+1·1	45·6	−0·7	56·7	+0·2	22·2	73·7	2nd & 6th	40·5	10th
	Cherrapunji	4,309	25·768	−·012	25·719	25·857	13th	25·692	29th	63·2	55·5	69·6	+1·9	55·0	+1·0	62·3	+1·5	14·6	75·8	7th	50·2	23rd
	Netarhat ‡‡									65·3	56·6	74·3		53·5		63·9		20·8	79·3	9th	41·8	28th
	Maymyo	3,526	26·439	−·026	26·434	26·6·6	13th	26·366	30th	55·6	55·0	73·3	−0·2	50·2	−2·0	61·7	−1·1	23·1	76·8	14th	44·8	11th
	Pachmarhi	3,528	26·538	−·030	26·485	26·587	12th	26·450	29th	65·0	54·0	75·3	+4·5	50·7	+0·2	64·5	+2·3	27·6	83·0	1st	44·1	29th
	Mount Abu	3,945	26·161	−·011	26·111	26·276	14th	26·047	29th	69·5	54·5	76·9	+3·2	60·3	+2·0	68·6	+2·6	16·6	82·2	1st	56·9	30th
	Mercara	3,781	26·234	−·033	26·167	26·292	9th	26·167	23rd	65·3	53·5	74·2	−1·8	60·1	−0·1	67·1	−0·9	14·1	79·0	7th	54·6	29th
	Ootacamund	*7,327*	23·064	−·011	23·000	23·122	9th	22·996	23rd	55·9	54·3	61·8	−1·5	50·6	+3·0	56·2	+0·7	11·2	66·2	7th	46·0	3rd & 4th
	Kodaikanal	7,698	22·828	−·028	22·763	22·878	9th	22·768	23rd	54·8	53·6	59·4	+1·6	51·0	+2·1	55·2	+1·9	8·4	66·4	8th	49·1	20th
	Extra India.																					
	Singapore (a)	10	29·835	−·110	29·766	29·929	1st	29·740	28th	83·3		88·8	+1·6	74·9	+1·3	81·9	+1·5	13·9	92·0	30th	72·0	15th
	Penang (a)	17	29·829	−·096	29·771	29·891	4th	29·761	26th	81·6		87·1	−0·4	72·2	−1·1	79·7	−0·7	14·9	91·0	5th, 7th & 13th.	68·0	27th
	Trincomalee	99	29·806	−·047	29·834	29·886	9th	29·699	22nd	76·3	74·5	86·7	+1·3	74·7	+0·1	80·7	+0·7	12·0	93·1	7th	72·0	26th
	Colombo	24	29·887	−·054	29·836	29·973	9th	29·752	23rd	75·4	74·1	84·9	−1·7	74·1	0	79·5	−0·9	10·8	88·0	16th	71·4	29th
	Hambantota	64	29·834		29·824	29·935	9th	29·722	22nd & 23rd.	75·6	73·4	85·8		74·5		80·1		11·3	90·0	1st	72·1	22nd
	Minicoy	7	29·974	+·015		30·075	9th	29·927	13th.													
	Amini Divi	*13*	29·906	−·053	29·847	29·971	9th	29·822	24th	82·1	77·2	86·3	+0·8	75·7	+0·3	81·3	+0·5	11·1	90·4	6th	73·3	24th & 28th.
	Gyantse	13,110																				
	Phari jong	14,400								**	**	**		**		**						
	Gangtok	5,667	24·380	−·193	24·335	24·443	3rd	24·227	29th	52·5	48·7	65·6	+0·9	49·7	+3·9	57·7	+4·9	15·9	72·3	4th & 5th	45·9	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 19 days.
† " 16 "
‡ " 23 "
§ " 10 "
‖ " 26 "
¶ " 28 "
** " 29 "

†† Mean of 22 days.
‡‡ " 25 "

B—*continued.*

at 212 stations in India, etc., in November, 1920—*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 30th November 1920.	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.
22	0	0	2	4	2	0	0	0	S 45° E		1·8			27		34*		·120*		1·5		0	−0·7	0	0·28	−0·28	0	0·28	−0·28	0	Fort Sandeman.
29	0	0	0	1	0	0	0	0	S 45° E	S 18° W	1·3	1·5	−0·2	3	− 2	67†	+12	·156†	−·006	0·6	−1·1	0	−1·0	0	0·36	−0·36	0	0·36	−0·36	0	Quetta.
11	0	2	11	5	0	1	0	0	S 80° E	S 61° E	3·0	4·7	−1·7	49	−14	40‡	− 5	·180‡	+·015	1·8	+0·5	0	−1·1	0	0·34	−0·34	0	0·34	−0·34	0	Chaman.
25	0	0	0	2	2	1	0	0	S 10° E	S 20° W	2·5			13	− 37	53§		·129§		0·8		0	−1·2	0	0·40	−0·40	0	0·40	−0·40	0	Kalat.
12	2	9	3	0	1	0	1	2	N 39° E		2·9			37		37‖		·128‖		0·5		0	−0·6	0	0·24	−0·24	0	0·24	−0·24	0	Dalbandin.
16	3	2	1	0	0	0	1	7	N 21° W		4·1			30		64		·433		0·2		0	−0·4	0	0·09	−0·09	0	0·09	−0·09	0	Pasni.
0	1	17	12	0	0	0	0	0	N 62° E		4·6			86		43¶		·157¶		0·3		0		0	0·17	−0·17	0	0·17	−0·17	0	Panjgur.
18	0	0	0	0	0	0	0	14	N 45° W		5·5			37		76**		·22[illegible]**		0·5		0		0			0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
20	0	0	0	0	0	0	0	0	Calm		0·1			*a*		44	0	·161	−·007	2·9	+1·0	1	−0·7	0·23	0·60	−0·37	0·23	0·60	−0·37	0·23	Parachinar.
9	14	3	0	6	1	3	0	5	N 12° W	N 13° W	6·5	8·5	−2·0	56	−11	42	− 1	·200	+·009	0	−1·9	0	−0·7	0	0·24	−0·24	0	0·24	−0·24	0	Cherat.
25	0	2	2	0	0	1	0	0	N 75° E		1·5			10		51	+ 2	·167	+·009	3·5	+1·3	2	+0·6	0·90	0·38	+0·52	0·90	0·38	+0·52	0·50	Drosh.
17	0	2	1	3	5	0	2	0	S 24° E	N 75° E	3·6	4·2	−0·6	23	+16	39**	+ 1	·156*	+·018	2·9	+0·8	0	−1·2	0	0·84	−0·84	0	0·84	−0·84	0	Murree.
																36	− 5	·139	0	1·4	−0·1	0	1·1	0	0·54	−0·54	0	0·54	−0·54	0	Simla.
3	0	10	16	0	0	0	0	1	N 71° E	N 34° E	6·7	3·9	+2·8	76	+39	46	− 5	·190	+·009	0·1	−1·0	0	−0·9	0	0·61	−0·61	0	0·61	−0·61	0	Chakrata.
9	1	0	2	3	1	2	12	0	S 69° W		5·3			38		45**	− 7	·169**	+·005	1·1	−0·2	0	−0·7	0	0·45	−0·45	0	0·45	−0·45	0	Mukteswar.
[illegible]	0	0	3	1	0	0	1	0	S 75° E	N 87° E	1·4	2·0	−0·6	10	−39	77	0	·258	−·004	3·5	+0·2	0	−1·2	0	0·90	−0·90	0	0·90	−0·90	0	Darjiling.
																79		·375		2·1		?		?						?	Kalimpong.
20	0	0	5	4	1	0	0	0	S 63° E		0·9			30		65	−10	·306	−·033	1·0	−0·9	1	−1·6	0·51	1·45	−0·94	0·51	1·45	−0·94	0·45	Shillong.
[illegible]	0	8	6	0	0	0	1	0	N 62° E		1·1			43		62	− 8	·356	−·017	0·7	−1·5	0	−1·5	0·04	2·35	−2·31	0·04	2·35	−2·31	0·03	Cherrapunji.
0	4	5	1	1	2	2	1	9	N 17° W		4·8‡			40		56		·356		0		0		0			0			0	Netarhat.
7	0	1	2	0	0	0	0	0	N 75° E		0·4			10		96	+ 7	·428	−·086	3·6	− 0·5	3	−2·1	0·57	3·07	−2·50	0·57	3·07	−2·50	0·32	Maymyo.
9	0	3	6	10	0	0	0	2	S 76° E	N 82° E	2·3	2·0	+0·3	46	+28	48	− 7	·294	−·042	0·6	−0·9	0	−1·1	0	0·68	−0·68	0	0·68	−0·68	0	Pachmarhi.
20	0	3	1	2	1	1	2	0	N 59° E	N 27° E	1·8	3·2	−1·4	7	−20	35	− 5	·254	−·007	1·1	+0·1	0	−0·3	0	0·21	−0·21	0	0·21	−0·21	0	Mount Abu.
4	0	13	12	0	0	0	0	0	N 68° E	N 71° E	3·6	3·8	−0·2	79	+ 9	91	+ 8	·566	+·050	7·1	+1·6	8	+3·0	6·86	2·84	+4·02	6·86	2·84	+4·02	2·45	Mercara.
6	2	0	6	14	2	0	0	0	S 58° E		3·4			62		86	+11	·397	+·062	8·4	+3·3	16	+7·1	6·94	4·63	+2·31	6·94	4·63	+2·31	1·17	Ootacamund.
0	11	7	8	2	0	0	0	2	N 39° E		8·2			66		93	+13	·399	+·052	8·4	+3·2	22	+11·2	15·52	7·36	+8·16	15·52	7·36	+8·16	1·95	Kodaikanal.
																															Extra India.
1	1	3	1	0	1	4	2	7	N 57° W					27						7·2	+1·4	10	−3·7	12·56	9·66	+2·90	12·56	9·66	+2·90	2·83	Singapore.
0	2	24	0	2	0	0	0	2	N 41° E					82								8	−8·0	2·63	13·15	−10·52	2·63	13·15	−10·52	0·57	Penang.
0	1	1	2	1	1	13	11	0	S 61° W	S 57° W	4·4	3·9	+0·5	62	+40	92	+ 4	·828	−·021	7·8	+3·7	19	+5·3	20·77	14·37	+6·40	20·77	14·37	+6·40	4·21	Trincomalee.
7	2	6	1	2	0	0	0	2	N 40° E	N 48° E	2·7	4·5	−1·8	27	− 3	94	+11	·822	−·017	8·2	+3·1	23	+10·1	15·34	12·74	+2·60	15·34	12·74	+2·60	2·34	Colombo.
4	6	2	0	0	0	0	8	10	N 43° W		5·7			66		90		·793		7·1		12		7·14	6·68	+0·46	7·14	6·68	+0·46	2·45	Hambantota.
1	6	3	0	3	4	5	4	4	N 81° W	N 7° W	3·3	4·5	−1·2	20	−14					7·4	+3·3	11	+3·9	14·15	5·55	+8·60	14·15	5·55	+8·60	2·82	Minicoy.
5	6	8	1	7	0	0	0	3	N 45° E		2·7			43		79	+ 4	·861	+·030	6·8	+2·2	12	+8·3	4·29	2·11	+2·18	4·29	2·11	+2·18	0·93	Amini Divi.
																															Gyantse.
																															Phari-jong.
9	0	0	0	0	0	0	0	0	Calm					*a*		** 78	+ 1	·308**	−·033	4·6	+2·2	2	−2·1	0·54	2·20	−1·66	0·54	2·20	−1·66	0·41	Gangtok.

(*a*) Indeterminate.
* Mean of 19 days.
† " " 16 "
‡ " " 23 "
§ " " 10 "
‖ " " 26 "
¶ " " 28 "
** " " 29 "
†† " " 8 "
‡‡ " " 25 "

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
	Extra India—*concld.*																					
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·544	—·226		26·200	19th	25·260	29th & 30th	39·0	36·8*	54·2	+0·7	31·5	+2·5	42·9	+1·6	22·7	81·3	3rd	22·3	21st, 23rd & 24th.
	Kabul (*c*)																					
	Meshed	3,104								34·6†	37·1‡	53·1	+0·8	31·3†	−4·0	42·6†	−1·6	21·8	83·6	1st	17·0	29th
	Jask	13	30·006	—·049	29·972	30·114	16th	29·926	29th	72·3	66·1	85·8	+2·4	64·8	−4·2	75·3	—0·9	21·0	94·3	1st	58·2	25th
	Muscat	20	30·033	—·021	30·001	30·145	16th	29·961	1st	76·4	69·7	87·0	+4·5	73·4	—1·8	80·2	+1·3	13·6	95·2	2nd	68·0	25th
	Bushire	14	30·007	—·036	29·982	30·194	16th	29·876	19th	65·8	58·6	78·5	+0·6	62·1	−0·2	70·3	+0·2	16·4	89·9	13th	42·2	30th
	Ispahan (*c*)	*5,817*	24·261	—·089		24·580	16th	24·040	19th	40·0	38·8§	61·1	−2·2	38·1	+1·5	49·6	−0·3	23·0	76·4	3rd	29·2	4 days
	Tehran (*c*) (*d*)	*4,002*	25·789	—·131		26·150	16th	25·600	26th	42·2	40·8§	55·7	—7·1	40·3	-2·3	48·0	—4·7	15·4	73·5	3rd	27·0	29th
	Baghdad	127	29·926	—·051	30·044	30·171	16th	29·706	7th	49·4	45·4‖	70·8	—4·3	48·1	—2·4	59·6	-3·3	22·7	81·9	7th	25·0	30th
	Aden	94	29·908	-·043	29·936	29·983	16th	29·855	1st	75·8	70·1	84·9	—0·1	73·5	—1·3	79·2	- 0·7	11·4	87·2	8th, 17th & 18th.	71·1	23rd
	Zanzibar	72	29·963	-·005	29·960	30·026	5th	29·910	19th	81·6	76·7	85·7	+1·5	78·3	+1·1	82·0	+1·3	7·4	88·1	27th	76·2	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.
(*d*) Mean of 26 days.

* Mean of 18 days.
† " 29 "
‡ " 20 "
§ " 23 "
‖ " 28 "

B—*concluded.*

at 212 stations in India, etc., in November, 1920—*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 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 30th November 1920.	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.*
																															Gartok.
29	1	0	0	0	0	0	0	0	N	N 5° W	0·6	0·7	−0·1	3	− 8	66*	+ 1	·172*	+ ·039	5·2	+2·6	0	0	0	0·01	−0·01	0	0·01	−0·01	0	Kashgar.
										S 45° W															0·82			0·82			Kabul.
22	0	0	1	5	1	0	1	0	S 38° E		1·5			20		90†	+17	·209†	+ ·008	4·7	+0·8	4	+2·4	1·36	0·60	+0·76	1·36	0·60	+0·76	0·42	Meshed.
5	6	13	5	0	0	0	0	1	N 40° E	N 27° E	6·2	7·1	−0·9	66	+ 9	71	+ 4	·576	+ ·064	0·6	−0·9	0	−0·6	0	0·32	−0·32	0	0·32	−0·32	0	Jask.
15	0	0	0	7	0	0	0	8	N 45° W	S 74° W	2·0	2·5	−0·5	3	−30	70	+ 4	·640	+ ·006	2·0	+0·5	1	+0·1	0·16	0·39	−0·23	0·16	0·39	−0·23	0·16	Muscat.
3	2	3	2	6	0	0	0	14	N 9° W	N 61° E	8·6	4·5	+4·1	33	−37	62	−14	·410	−·066	2·7	0	1	−1·6	0·30	1·59	−1·29	0·30	1·59	−1·29	0·30	Bushire.
25	0	0	0	2	0	2	0	1	S 22° W	N 62° W	1·2‖	1·8	−0·6	6	− 8	71‡	+ 1	·198‡	+ ·015	2·6	−0·5	3	+1·5	1·39	0·64	+0·75	1·39	0·64	+0·75	0·70	Ispahan.
22	0	4	0	0	0	0	0	0	N 45° E	N 11° E	2·4§	1·6	+0·8	15	−13	80	+16	·231	+ ·027	5·9	+2·3	4	+1·2	1·83	0·95	+0·88	1·83	0·95	+0·88	0·62	Tehran.
0	5	3	3	2	0	1	12	4	N 49° W	N 5° W	4·7	1·7	+3·0	40	+16	64¶	− 3	·243¶	−·054	3·8	+0·8	2	+0·5	0·28	0·76	−0·38	0·38	0·76	−0·38	0·25	Baghdad.
9	5	16	0	0	0	0	0	0	N 34° E	N 76° E	6·0	9·4	−3·4	62	−18	74	+ 2	·661	−·038	2·7	−0·6	0	−0·2	0	0·09	−0·09	0	0·09	−0·09	0	Aden.
18	0	0	1	6	2	1	1	1	S 27° E	S 45° E	2·1	3·4	−1·3	23	−19	79	− 3	·850	+ ·005	5·5	−0·6	4	−7·2	1·76	8·04	−6·28	1·76	8·04	−6·28	0·85	Zanzibar.

* Mean of 18 days.
† ,, 20 ,,
‡ ,, 23 ,,
§ ,, 24 ,,
‖ ,, 28 ,,

Table C.—Abstract of observations taken at 8 hrs. at 60 fourth and fifth class stations in India, etc., in November, 1920.

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
	II.—Assam.																								
4	Bishnath	66·0	60·6	82·8	+1·2	46·6	−7·7	64·7	−3·3	36·2	85·7	11th	40·9	20th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	72·7	66·6	85·8	+1·9	60·8	+2·5	73·3	+2·2	25·0	88·4	11th	57·6	4th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	63·9	62·1	83·5	−0·7	51·5	−8·3	67·5	−4·5	32·0	90·1	11th, 20th & 24th.	50·1	4 days.	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	60·8	59·5	83·2	+5·1	55·7	−0·6	69·5	+2·3	27·5	86·8	7th	50·2	29th	...	...	...	...	...	...	...	...	...	...	...
	Dikom	63·0	60·6	82·7	+1·6	55·0	−0·8	68·9	+0·4	27·7	85·8	7th & 9th	49·6	29th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	64·1	63·3	80·5	+2·6	54·4	...	67·5	...	26·1	83·9	2nd	50·0	25th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	66·3	64·5	86·1	+1·1	61·3	−0·4	73·7	+0·3	24·8	92·0	7th	56·2	25th	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	63·1	62·0	81·4	−0·1	56·6	−3·1	69·0	−1·6	24·8	84·5	8th	53·3	25th & 30th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	64·4	63·0	82·5	...	57·3	...	69·9	...	25·2	85·9	8th & 9th	54·5	29th	...	...	...	...	...	...	...	...	...	...	...
	Messa	72·0	66·9	86·4	−1·0	56·1	+0·1	71·3	−0·5	30·3	90·3	2nd & 8th	52·8	24th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	58·4	57·2	83·4	+1·6	52·7	−3·9	68·1	−1·1	30·7	87·1	7th	49·3	13th	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	77·3	67·3	88·9	+3·7	63·5	0	76·2	+1·9	25·4	90·3	11th & 15th	61·9	30th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	78·4	69·7	85·2	+0·4	61·5	−0·3	73·3	+0·1	23·7	92·7	7th	51·4	29th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	72·5	68·5	87·3	−0·8	64·5	+2·7	75·9	+0·9	22·8	92·9	7th	54·5	24th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	59·3	57·8	84·2	−2·9	53·9	+0·4	69·1	−1·3	30·3	88·9	2nd	49·8	3rd & 24th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	71·9	66·3	83·3	−0·7	56·4	+0·1	69·9	−0·3	26·9	89·1	6th	51·5	24th & 28th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	74·5	66·5	81·4	−3·0	59·0	−0·3	70·2	−1·7	22·4	86·1	3rd	52·0	27th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	69·3	62·8	...	...	60·9*	...	...	...	...	...	...	51·1	28th*	...	...	...	...	...	...	...	...	...	...	...
	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 November, 1920.

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 30th November 1920.	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.
...	...	...	...	...	71	18	·459	− ·077	...	...	0	− 1·5	0	0·55	− 0·55	0	0·55	− 0·55	0	Bishnath.
...	...	...	...	...	71	−1	·571	− ·004	...	...	0	− 1·8	0	0·84	− 0·84	0	0·84	− 0·84	0	Borjuli.
...	...	...	...	...	92	− 3	·548	− ·061	...	...	1	− 0·1	0·39	1·06	− 0·67	0·39	1·06	− 0·67	0·39	Chandkhira.
...	...	...	...	...	93	0	·493	− ·042	...	...	0	− 1·3	0·07	0·65	− 0·58	0·07	0·65	− 0·58	0·07	Doom Dooma.
...	...	...	...	...	87	− 2	·497	− ·022	...	...	0	− 1·4	0	0·65	− 0·65	0	0·65	− 0·65	0	Dikom.
...	...	...	...	...	95	+ 4	·569	− ·020	...	...	1	− 0·3	0·20	0·61	− 0·41	0·20	0·61	− 0·41	0·20	Golaghat.
...	...	...	...	...	90	− 3	·584	− ·014	...	...	1	− 0·5	0·33	1·04	− 0·71	0·33	1·04	− 0·71	0·30	Hailakandi.
...	...	...	...	...	94	0	·541	− ·038	...	...	1	− 0·5	0·45	0·64	− 0·19	0·45	0·64	− 0·19	0·45	Jorebat.
...	...	...	...	...	93	...	·553	...	...	...	1	− 0·5	0·30	1·24	− 0·94	0·30	1·24	− 0·94	0·30	Lumding.
...	...	...	...	...	75	− 5	·594	− ·023	...	..	0	− 1·0	0	0·35	− 0·35	0	0·35	− 0·35	0	Messa.
...	...	...	...	...	93	0	·457	− ·009	...	...	0	− 1·2	0	0·47	− 0·47	0	0·47	− 0·47	0	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·5	0	1·12	− 1·12	0	1·12	− 1·12	0	Comilla.
...	...	...	...	...	57	−23	·533	− ·150		...	0	− 1·0	0	0·74	− 0·74	0	0·74	− 0·74	0	Brahmanbaria.
...	...	...	...	...	..	...	...	..	...	...	0	− 1·3	0	1·20	− 1·20	0	1·20	− 1·20	0	Faridpur.
...	...	...	...	...	63	−16	·612	− ·011	...	...	0	− 0·5	0	0·71	− 0·71	0	0·71	− 0·71	0	Goalundo.
...	...	...	...	...	80	+ 2	·649	+ ·034	...	...	0	− 0·8	0	0·61	− 0·61	0	0·61	− 0·61	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·54	− 0·54	0	0·54	− 0·54	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·49	− 0·49	0	0·49	− 0·49	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·38	− 0·38	0	0·38	− 0·38	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·23	− 0·23	0	0·23	− 0·23	0	Rangpur.
...	...	...	...	...	92	− 1	·461	− ·067	...	...	0	− 1·2	0	0·94	− 0·94	0	0·94	− 0·94	0	Dam Dim.
...	...	...	...	...	72	− 3	·574	− ·042	...	...	0	− 1·6	0	0·80	− 0·80	0	0·80	− 0·80	0	Kalchini.
...	...	...	...	...	64	− 9	·543	+ ·012	...	...	0	− 1·9	0	1·07	− 1·07	0	1·07	− 1·07	0	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·5	0	0·29	− 0·29	0	0·29	− 0·29	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·2	0	1·02	− 1·02	0	1·02	− 1·02	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	− 1·1	0	0·64	− 0·64	0	0·64	− 0·64	0	Bankura.
...	...	...	...	...	67	...	·492	...	...	...	0	− 0·8	0	0·59	− 0·59	0	0·59	− 0·59	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·9	0	0·42	− 0·42	0	0·42	− 0·42	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·31	− 0·31	0	0·31	− 0·31	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·4	0	0·27	− 0·27	0	0·27	− 0·27	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·3	0	0·23	− 0·23	0	0·23	− 0·23	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·5	0	0·30	− 0·30	0	0·30	− 0·30	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·5	0	0·32	− 0·32	0	0·32	− 0·32	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	− 0·7	0	0·53	− 0·53	0	0·53	− 0·53	0	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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	65·7	55·3	85·1	...	54·4	...	69·7	...	30·7	88·7	1st	46·3	29th	25	0	5	0	0	0	0	0	0	N 45° E.	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	73·8	68·7	87·8	...	68·0	...	77·9	...	19·8	94·8	10th	57·1	30th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	76·7	71·2	90·4	...	70·6	...	80·5	...	19·8	94·7	9th	60·9	29th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	63·7	59·5	80·5	...	56·5	...	68·5	...	24·0	83·2	6th	40·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Bay Stations.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
13	Jammu	63·7	52·4	82·4	...	60·2	...	71·3	...	22·2	88·3	1st	51·4	25th & 28th.	0	12	12	3	0	0	0	1	2	N 27° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	36·6	32·9*	54·1	...	18·5	...	36·3	...	35·6	62·5	1st	11·1	24th	11	0	0	0	8	0	7	1	3	S 12° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	67·8	60·4	83·9	+1·6	61·3	+0·6	72·6	+1·1	22·6	87·7	3rd	56·5	30th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	61·1	60·3	67·9	+2·0	54·8	+1·5	61·3	+1·7	13·1	75·9	6th	48·5	30th	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	63·9	+5·8	36·3	+1·8	50·1	+3·8	27·6	71·0	4th & 5th	28·6	2nd	4	3	4	3	4	4	6	2	0	S 22° E	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	70·0	+1·1	26·3	−5·3	48·1	−2·1	43·7	80·1	2nd	13·0	19th	...	...	...	...	...	...	...	...	...	...	...

*Mean of 5 days.

C—*continued.*

and fifth class stations in India, etc., in November, 1920—*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 30th Nov. 1920.	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	−0·4	0	0·16	−0·16	0	0·16	−0·16	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	−0·7	0	0·42	−0·42	0	0·42	−0·42	0	Dehra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	0	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·04	−0·04	0	0·04	−0·04	0	Udaipur.
																				XII.—Central Provinces.
0·5	...	...	13	...	49	...	·315	...	1·4	...	0	−1·9	0	1·32	−1·32	0	1·32	−1·32	0	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	−1·0	0	0·53	−0·53	0	0·53	−0·53	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	18	+8·3	19·68	7·19	+12·49	19·68	7·19	+12·49	4·31	Tinnevelly.
...	...	...	...	...	77	...	·641	...	2·8	...	1	−2·8	0·30	2·19	−1·89	0·30	2·19	−1·89	0·15	Anantapur.
...	...	...	...	...	75	...	·694	...	0·3	...	0	−3·5	0·15	2·28	−2·13	0·15	2·28	−2·13	0·06	Guntur.
...	...	...	...	...	78	...	·469	...	...	...	0	...	0	...	...	0	...	...	0	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	16	+3·8	9·81	11·08	−1·27	9·81	11·08	−1·27	1·61	Car Nicobar.
																				Kashmir.
...	...	...	83	...	42	...	·258	...	1·8	...	0	−1·2	0	0·45	−0·45	0	0·45	−0·45	0	Jammu.
...	...	...	...	...	...	...	...	...	...	...	1	−1·6	0·26	1·63	−1·37	0·26	1·63	−1·37	0·11	Sonamarg.
...	...	...	30	...	43*	...	·108*	...	0·2	...	0	−0·4	0	0·11	−0·11	0	0·11	−0·11	0	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	0	−0·7	0	0·40	−0·40	0	0·40	−0·40	0	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	63	+2	·427	−·039	...	...	0	−1·5	0	0·71	−0·71	0	0·71	−0·71	0	Panighatta.
...	...	...	...	...	95	+17	·520	+·164	...	...	0	−1·3	0	0·93	−0·93	0	0·93	−0·93	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	0	−3·4	0	5·37	−5·37	0	5·37	−5·37	0	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	2	−1·6	0·36	1·71	−1·35	0·36	1·71	−1·35	0·15	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	0	...	...	0	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	0	−0·7	0	0·50	−0·50	0	0·50	−0·50	0	Mussoorie.
...	...	...	20	...	...	...	...	...	1·0	−0·9	0	−0·8	0	0·28	−0·28	0	0·28	−0·28	0	Poo.
...	...	...	...	...	...	...	...	...	...	...	0	−1·0	0	0·40	−0·40	0	0·40	−0·40	0	Kailang.
...	...	...	...	...	...	...	...	...	0·1	...	0	−0·9	0	0·29	−0·29	0	0·29	−0·29	0	Pishin.

* Mean of 5 days.

Table

Abstract of observations taken at 8 hrs. at 60 fourth

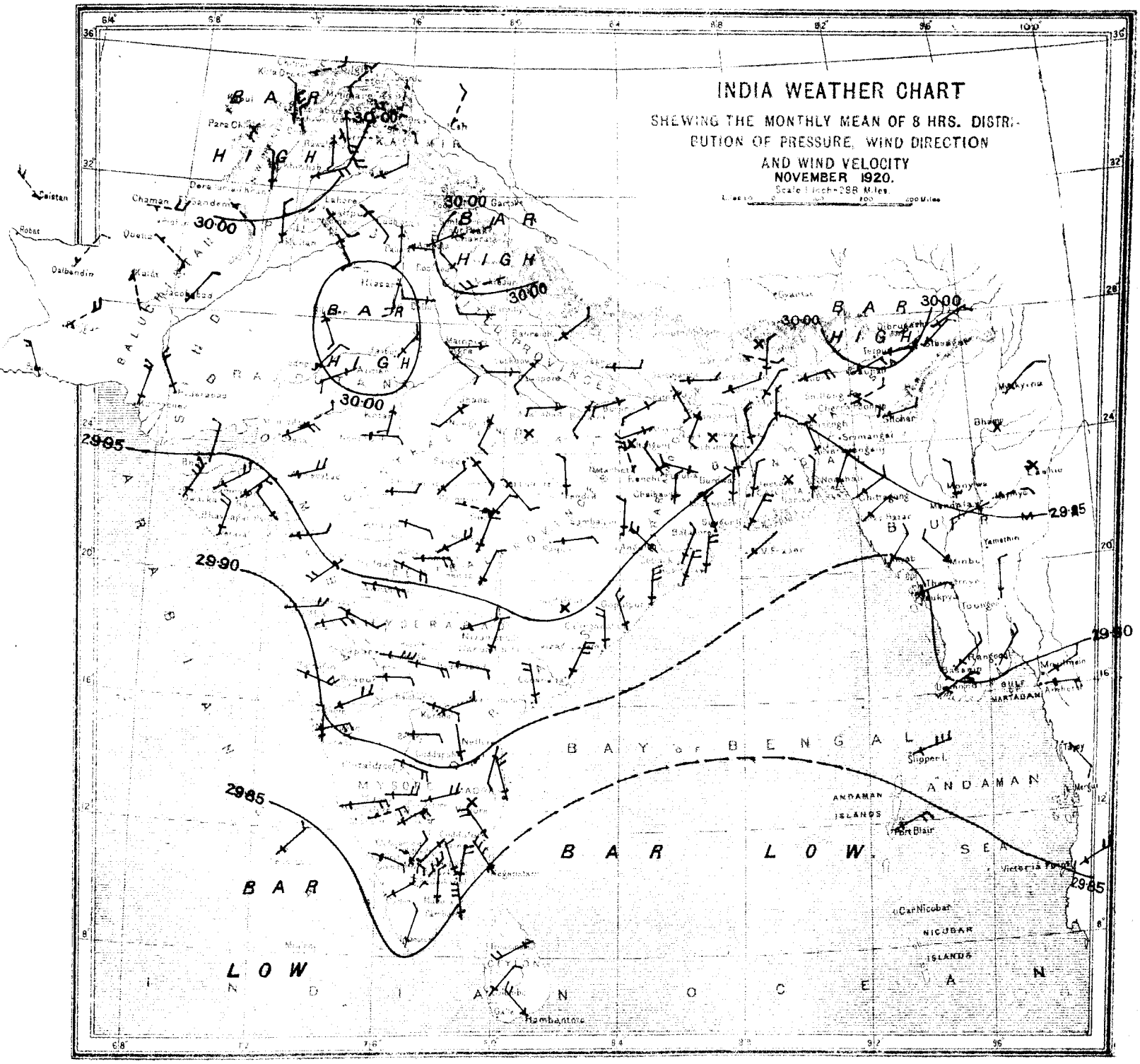
Number of Sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		Mean of 8 hrs. dry bulb.	Mean of 8 hrs. wet bulb.	Mean maximum.	Departure from normal.	Mean minimum.	Departure from normal.	Monthly mean of mean between maximum and minimum.	Departure from normal.	Mean daily range of temperature.	Highest temperature observed during month.	Date.	Lowest temperature observed during month.	Date.	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.																								
	Chumbi.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	65·1	56·6	77·7	...	53·5	...	65·6	...	24·2	89·0	3rd, 4th & 12th.	34·0	28th & 30th.	0	22	0	0	0	7	0	0	1	N 3° W	...

C—*concluded.*

and fifth class stations in India, etc., in November, 1920—*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 30th November, 1920.	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.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·15	...	...	0·15	...	...	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	6	—5·3	3·83	7·71	—3·88	3·83	7·71	—3·88	2·07	Pemba.
...	...	...	53	...	60	...	·372	...	...	...	0	...	0·05	...	...	0·05	...	...	0·05	Abadan.

SGPI-21-IV-5—(21)-22-3-23—325.

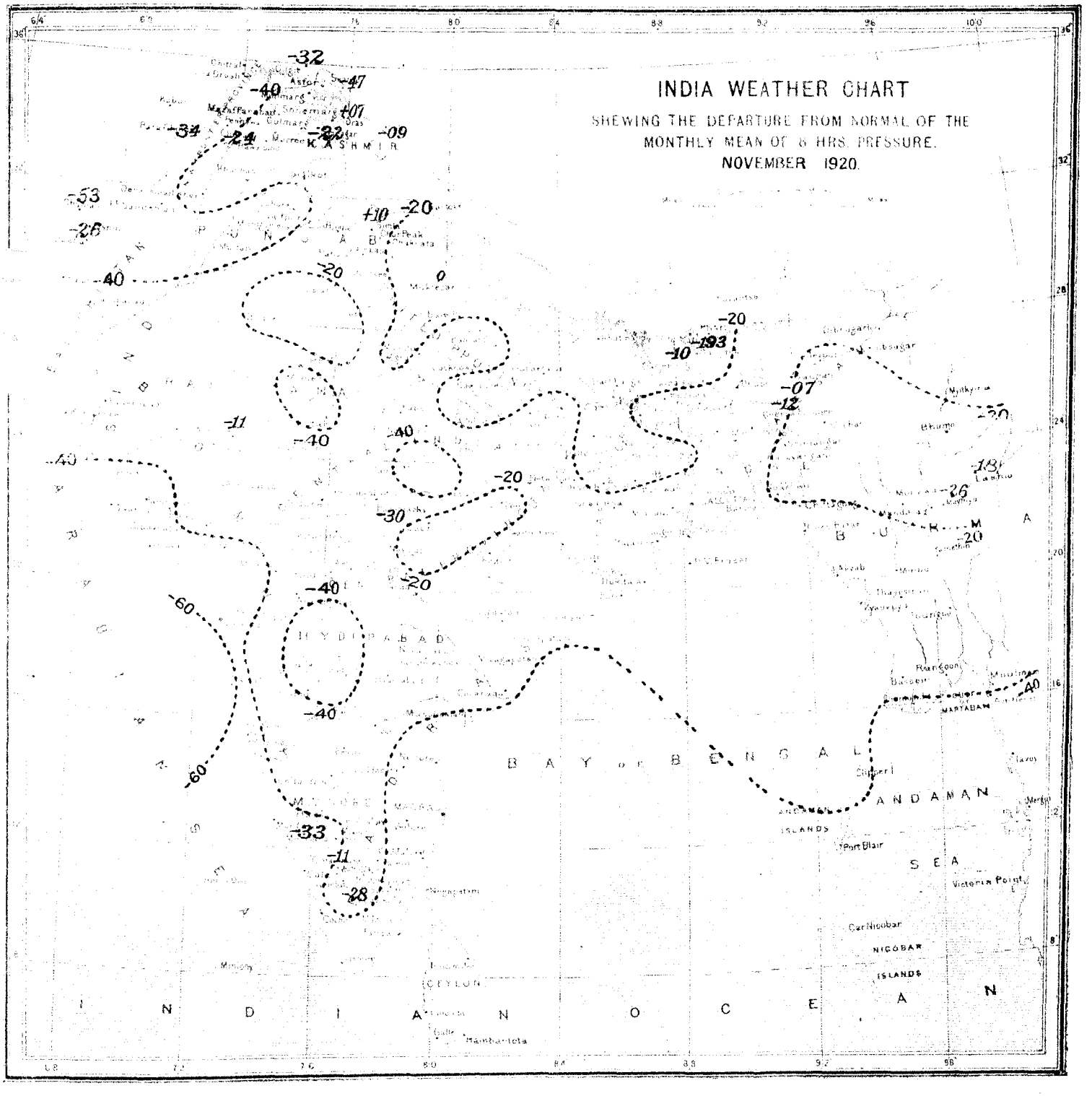


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

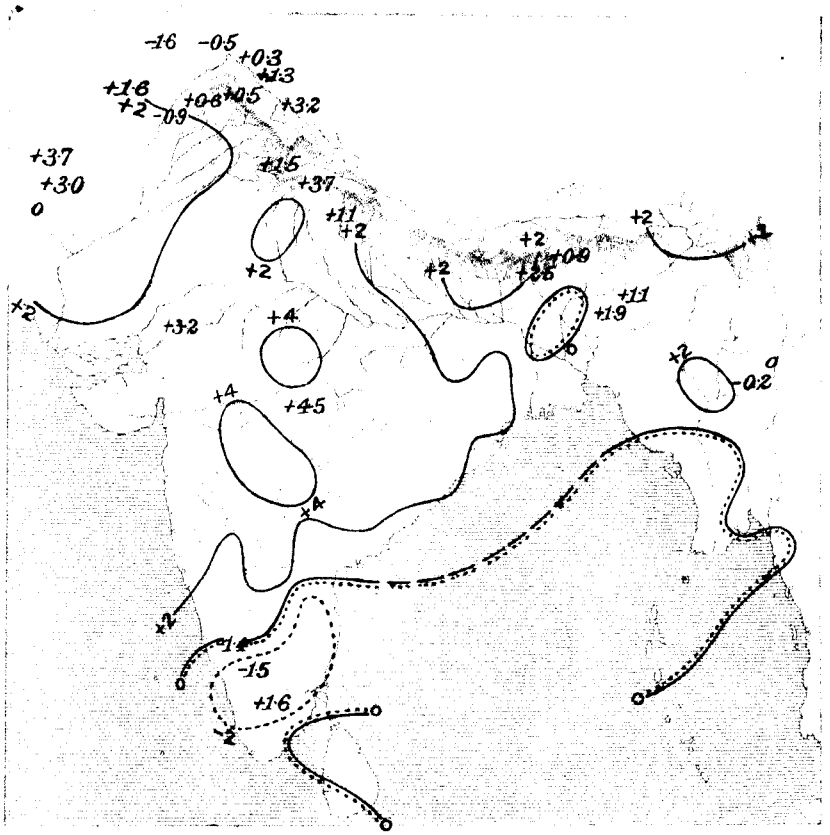


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

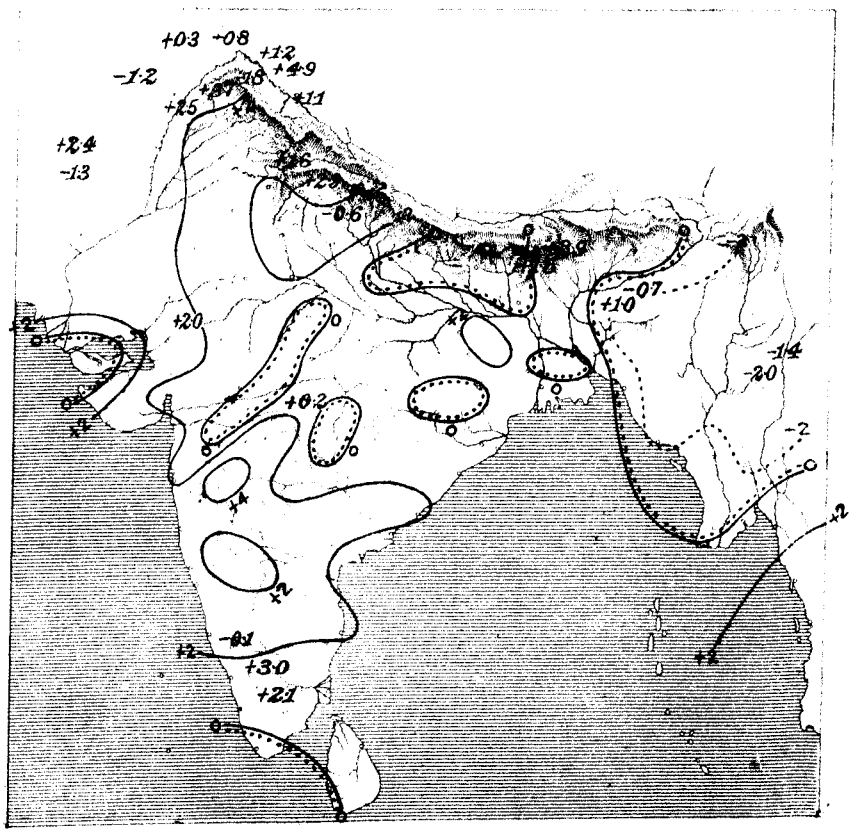


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE.

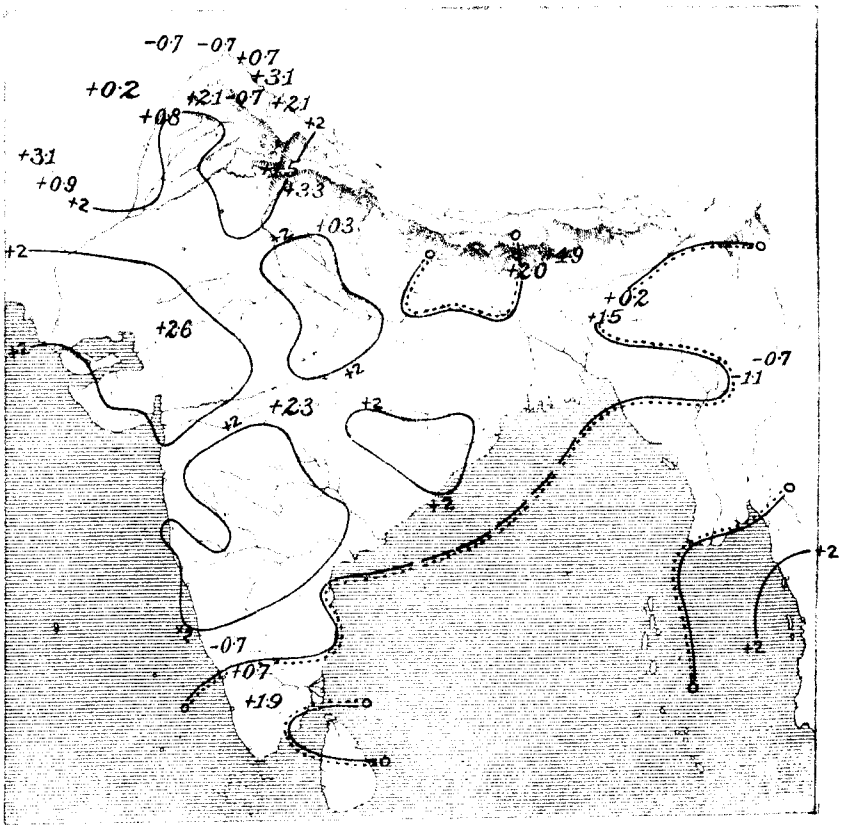


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

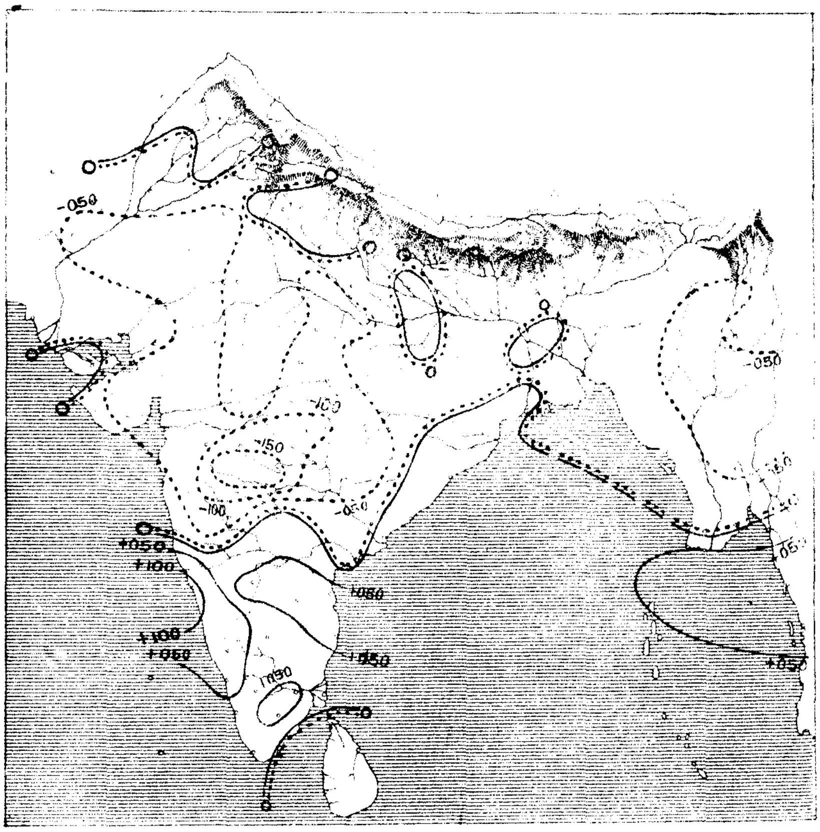


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

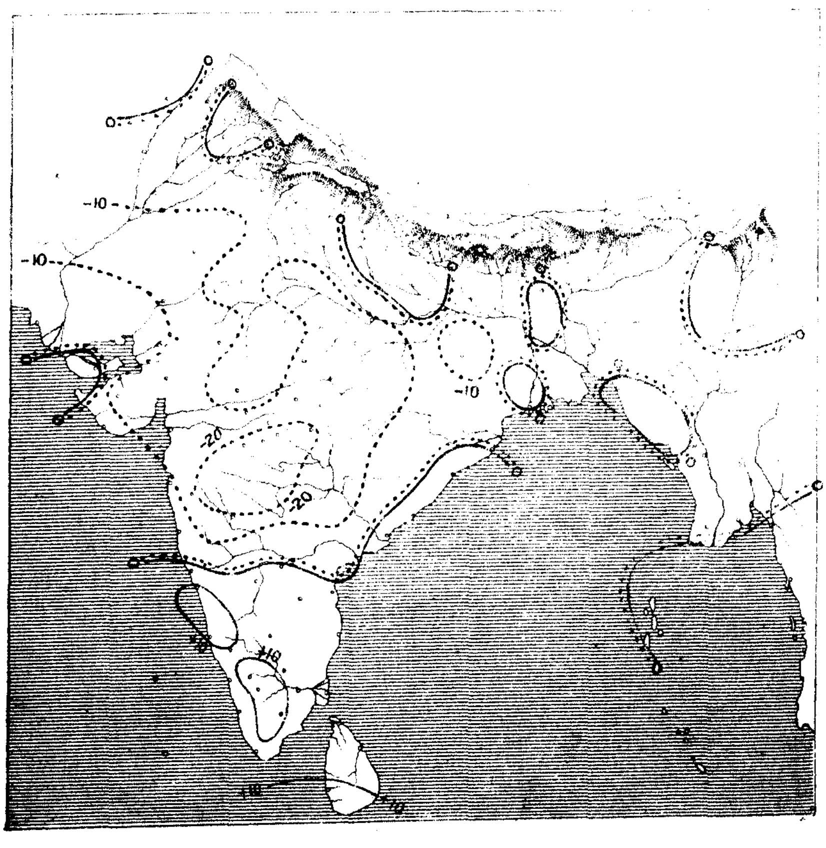


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

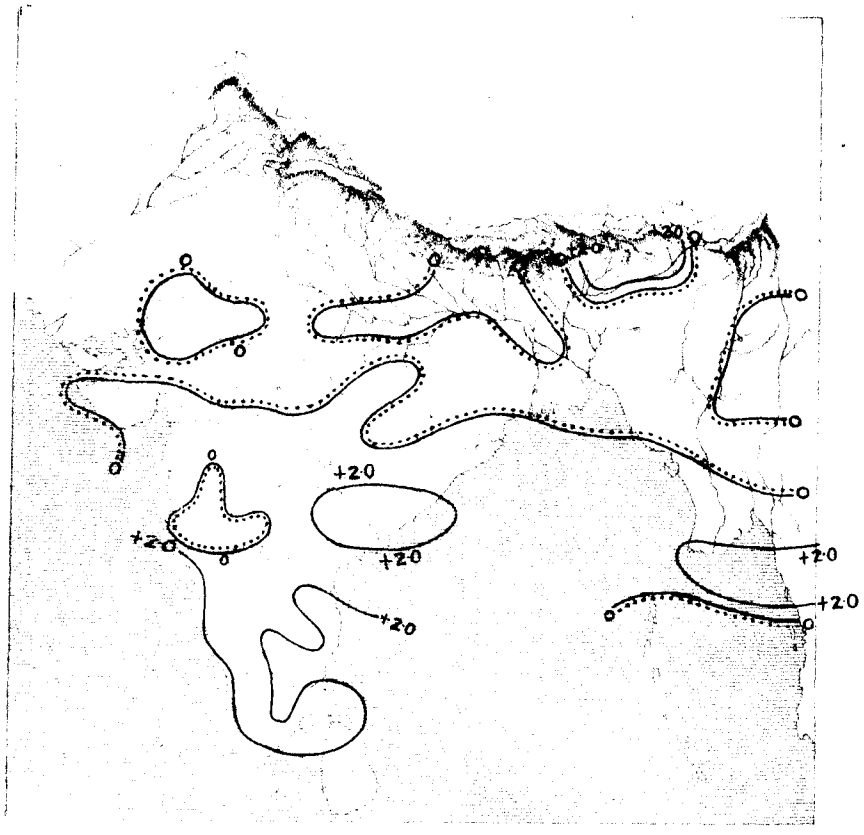
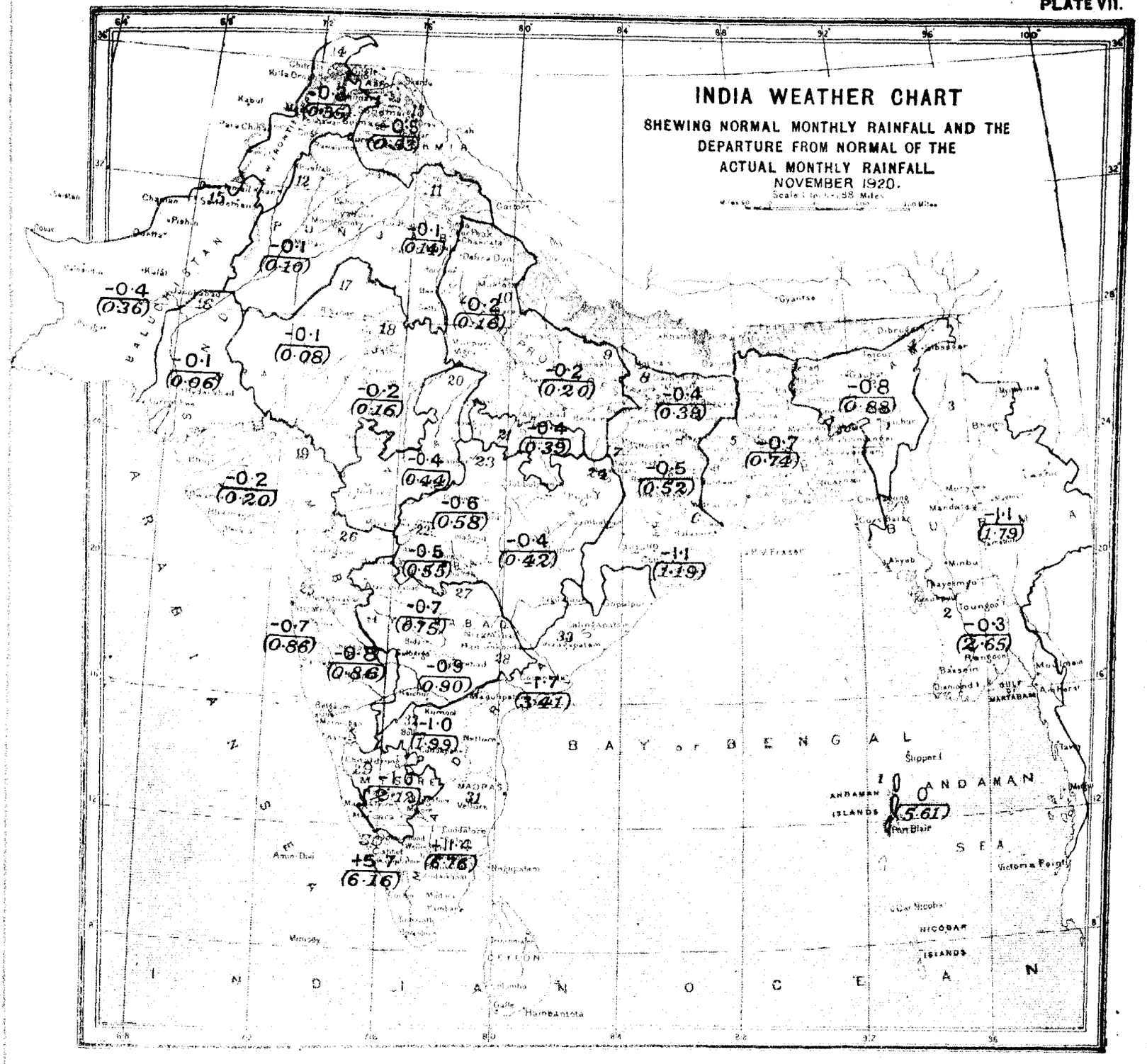


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(BASED ON THE RETURNS OF TABLE B.)



The country is divided into 33 areas as shown 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 those give the departure 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, 1920.

INTRODUCTION.

THIS review of the weather in India during the month of December, 1920, is based on observations taken daily at 8 hrs. at 212 stations, and on additional observations taken at 10 hrs. and 16 hrs. at 13 stations. In the rainfall summary have been utilized the data furnished by the meteorological observatories, and 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.

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. Six western disturbances affected the weather in north-west India, but the associated precipitation was light and confined mainly to Baluchistan and the hills around the Punjab. Outside these areas rain fell in the south of the Peninsula in the third week, and in the Bay Islands and south Burma after the 20th.

The month was thus remarkably dry over [illegible] of the country, and the total rainfall averaged over the plains of India as a whole was below normal by 0·42″ or 84 per cent. The only division receiving an excess of rain was Lower Burma; over the rest of the country rainfall was either in large defect or altogether wanting.

The distribution of cloud and humidity followed generally that of rainfall. Skies were unusually clear and the amount of aqueous vapour in the air was below normal except in Lower Burma and Assam. Relative humidity was below normal except in Burma, Assam, Bengal and Madras, where it was nearly normal.

Both maximum and minimum temperatures were below normal in Sind and Baluchistan, and above it in Assam and Kashmir. Over the rest of the country, maximum temparature was generally in slight excess except along the coast; while minimum temperature was low in Orissa, Rajputana, Gujarat, Central India East, Hyderabad North and Mysore.

Averaged over the plains of India barometric pressure was 0·038″ below normal.

Solar, magnetic and seismic disturbances.

KODAIKANAL OBSERVATORY.

3. *Solar Observations.*—The weather was generally fine during the month and complete solar observations were made on all days except the 17th.

Sunspots.—12 new groups were recorded. The mean daily number was 2·8 and the average life of a spot was 7·5 days. The distribution in latitude was as follows:—

TABLE I.

— .	6°—10°	11°—20°	Mean latitude.	Extreme latitudes.
North	1	3	14°·0	8° & 16°
South	3	5	10·3	7 & 13°

Prominences.—51 prominences, a minute or more in height and 22 metallic prominences were recorded. Two eruptive prominences were photographed, one on the 8th and the other on the last day of the month. The latter closely resembled the large prominence of May 29, 1919, and reached a height of 16′, equal to a semi-diameter of the sun.

Magnetic Disturbances.—"Great" disturbances were registered on the 5th and 16th, and "Moderate" ones on 12 other days.

J. EVERSHED,
Director,
Kodaikanal and Madras Observatories.

Seismic records.

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

Apparatus.—Milne 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.
1920.		h. m. s.						
Dec. 4th	e P	5 25 00	...	...	...	...	...	
	F	5 32 06	...	...	...	...	...	Widening of line.
„ „	e P	23 38 06	...	...	...	...	...	
	F	23 46 18	...	...	...	...	...	Ditto.
„ 5th	e P	10 50 18	...	...	...	...	...	
	e L	10 51 36	...	...	...	...	...	
	M	10 56 00	...	...	60	...	...	
	F	11 18 00	...	...	...	...	...	
Dec. 7th	e P	21 38 00	...	...	...	...	...	
	F	21 46 12	...	...	...	...	...	Widening of line.
„ 10th	e P	5 15 42	...	...	...	...	...	
	e L	5 38 18	...	...	...	...	...	
	M	5 45 54	...	...	310	...	...	
	F	6 50 06	...	...	...	...	...	
„ 16th	e P	12 13 06	...	...	...	...	...	
	e L	12 16 36	...	...	...	...	...	
	M	12 34 06	...	...	1500	...	...	The boom struck the stops.
	F	16 25 24	...	...	...	...	...	
„ 17th	e P	20 16 12	...	...	...	...	...	
	e L	20 19 42	...	...	...	...	...	
	M	20 21 18	...	...	40	...	...	
	F	20 51 30	...	...	...	...	...	
„ 18th	e P	10 34 06	...	...	...	...	...	
	F	10 45 18	...	...	...	...	...	Widening of line.
„ 19th	e P	20 50 24	...	...	...	...	...	
	F	20 59 24	...	...	...	...	...	Ditto.
„ 25th	e P	11 29 18	...	...	...	...	...	
	e L	11 45 12	...	...	...	...	...	
	M	11 59 18	...	...	140	...	...	
	F	13 02 12	...	...	...	...	...	

T. ROYDS,
Assistant Director.

BOMBAY OBSERVATORY.

Alibag magnetic record.

4. During the month of December, 1920, the traces showed 7 calm days, 20 days of small and 4 days of moderate disturbance.

The days of the month selected as 'Quiet' for the purposes of the Magnetic Survey of India are the 1st, 11th, 19th, 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	C	9	S	17	S	25	S
2	S	10	S	18	S	26	M
3	S	11	C	19	C	27	S
4	M	12	S	20	S	28	S
5	M	13	S	21	S	29	C
6	M	14	S	22	C	30	C
7	S	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 declination for the month are as follows :—

Easterly declination . . .	0° 18′ 24″.
Horizontal force	0·36935 C. G. S. unit.
Vertical force	0·17170 C. G. S. unit.
Inclination	24° 55′·9.
Horizontal force range . . .	·00042 C. G. S. unit.
Horizontal force summed range .	·00264 C. G. S. unit.
Declination range . . .	1′·8.
Declination summed range . .	10′·5.

(NOTE.—Summed range means sum without regard to sign of 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 (E.-W.)

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.
1920.		h. m. s.						
Dec. 10th	P	5 36 59	...	...	...	...	...	Maximum cannot be exactly determined as the movements are very small.
	M	.....	...	...	...	...	...	
„ 16th	P	12 12 29	...	...	...	...	...	
	S	12 17 39	...	...	...	...	about 2,200 miles.	
	M	.....	...	...	...	...	...	Maximum cannot be determined as the style went off the paper.
„ 25th	P	11 39 43	...	...	...	...	...	
	S	11 45 5	...	...	...	...	about 2,200 miles	
	M	11 54 0		...	305	...	...	

T. K. CHINMAYANANDAM,

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	30	1	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
Dec. 16th	P	12 10 30	9	...	...	...	...	
	S	12 14 12	...	...	...	...	...	
	L	?	...	...	...	...	...	
	M	?	...	...	2862	...	...	
	F	15 56 42	...	...	...	...	...	
„ 25th	P	11 38 6	2	...	...	...	...	
	S	11 41 54	5	...	...	...	...	
	L	11 45 24	9	...	...	...	...	
	M	11 46 54	...	1210	534	...	...	
	F	13 8 54	...	...	...	...	...	
„ 28th	P	3 21 24	2	...	...	...	...	
	S	3 25 6	3	...	...	...	...	
	L	3 28 18	7	...	...	...	...	
	F	3 59 0	...	...	...	...	...	

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	
AZ:				

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ) AN.	AE.	AZ.	Distance. Δ (Km.).	Remarks.
1920.		h. m. s.						
Dec. 6th	e	18 20 00	...	...	...	...	...	
	F	18 28 42	...	...	...	...	...	Very slight shock. Felt at Skardu and Srinagar.
„ 16th		...	...	>2571	...	...	...	Occurred in Syechuan, China. A violent earthquake record began at about 12 hrs. 2 mins. 12 sec. and continued for about 3½ hours. The Pendulum began to strike against both stops 4 minutes after the commencement of the record and continued to do so for about 40 mins. The time marker was not working properly.

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) An.	Ae.	Az.	Distance Δ (Km.)	Remarks.
1920.		h. m. s.						
Dec. 25th	P	11 39 30	...	...	...	...	...	
	S	11 44 00	...	...	...	...	...	
	L	11 47 30	...	...	...	...	...	
	M	11 50 24	...	>1054	...	...	...	Pendulum began to strike against stops soon after the long waves began; amplitude and period are therefore uncertain.
	F	13 50 30	...	...	...	...	...	

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.
	1920	h. m.	Sec.			
Drosh . . .	Dec. 5th	7 30	10	7	1	
" . . .	" 6th	1 30	30	7	2	
Srinagar (Kashmir)	Dec. 6th	1 44	7	7	2	
Skardu " .	" 6th	18 20	2	4	3	
Srinagar " .	" 6th	18 27	5	7	1	
" " .	" 7th	0 48	3	6	1	
Drosh . . .	" 16th	16 30	45	8	3	
Shillong . .	" 25th	16 46	⅜ of a second.	5	1	
" . .	" 28th	15 04	½th of a second.	5	1	
Borjuli (Darrang District, Assam) .	" 28th	15 31	2	7	1	
Drosh . . .	" 28th	16 30	30	7	2	
" . .	" 29th	18 32	10	7	1	

S. SITARAMAYYA,
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.	+·009	—·001	—·007
Actual mean wind direction . .	N 85° E	N 20° E	N 33° W
Normal mean wind direction . .	S 88° E	N 85° E	N 44° W
Actual mean wind velocity (miles per diem).	194	84	119
Normal mean wind velocity (miles per diem).	187	110	109
Rainfall departure from normal (in inches).	—2·89	+2·15	+1·16

Depressions and cyclonic storms.

8. Six western disturbances affected the weather in north-west India during the month. The 3rd (11th to 13th) and 4th (16th to 18th) gave hardly any rain while the precipitation associated with the 1st, 2nd (5th to 8th) and 6th (29th to 30th) was confined to Kashmir and the hills of the North-West Frontier Province. The 5th disturbance was a fairly deep depression which followed a more southerly path than the others and caused widespread rain or snow in Baluchistan, Kashmir and the hills around the Punjab, with a few falls in the Punjab plains between the 20th and 26th.

Pressure.

9. The following table gives the departure from normal of the mean 8 hours pressure in the 15 chief political divisions of India :—

TABLE 9.

DIVISION.	Departure from normal of mean 8 hrs. pressure.
	"
Burma	—·056
Assam	—·053
Bengal	—·047
Bihar and Orissa	—·044
United Provinces	—·047
Punjab	—·050
North-West Frontier Province	—·059
Sind	—·034
Rajputana	—·035
Bombay	—·020
Central India	—·035
Central Provinces	—·033
Hyderabad	—·025
Mysore	—·011
Madras	—·010

The following table gives a comparison of the departure from normal of mean 8 hours pressure at 9 hill stations with the departure at an adjoining station in the plains :—

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	—·037	—·024
Leh	—·035	Lahore	—·061	—·026
Murree	—·039	Peshawar	—·070	—·031
Simla	+·003	Ludhiana	—·051	—·054
Mukteswar	+·006	Bareilly	—·053	—·059
Darjiling	—·029	Dhubri	—·054	—·025
Mount Abu	—·009	Deesa	—·017	—·008
Pachmarhi	—·026	Khandwa	—·033	—·007
Kodaikanal	—·009	Madura	—·006	+·003

Temperature.

10. Table 11 gives the actual temperature 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	83·6	75·8	79·7	7·8	−1·1	−0·7	−0·4
2. Lower Burma	84·6	68·1	76·3	16·5	+0·4	+2·2	−1·8
3. Upper Burma	81·9	55·8	68·8	26·1	+2·7	+0·3	+2·4
4. Assam	77·9	54·8	66·4	23·1	+2·4	+2·7	−0·3
5. Bengal	78·8	56·0	67·4	22·8	+1·2	+0·3	+0·9
6. Orissa	82·1	53·6	67·9	28·4	+1·7	−2·6	+4·3
7. Chota-Nagpur	78·9	48·5	63·7	30·4	+2·5	−1·9	+4·4
8. Bihar	76·5	50·5	63·5	26·0	+1·7	−0·8	+2·5
9. United Provinces, East	77·3	47·1	62·2	30·2	+2·3	−0·9	+3·2
10. Do. do., West	77·3	45·8	61·5	31·5	+2·6	−1·8	+4·4
11. Punjab, East and North	73·8	42·5	58·2	31·3	+2·5	−0·6	+3·1
12. Do., South-west	73·8	41·1	57·4	32·7	+1·2	−1·6	+2·8
13. Kashmir	47·1	24·9	36·0	22·2	+2·7	+2·3	+0·4
14. North-West Frontier Province	70·5	39·5	54·9	31·1	+0·9	−0·4	+1·3
15. Baluchistan	58·2	30·9	44·5	27·4	−4·3	−8·9	+4·6
16. Sind	75·3	49·1	62·2	26·2	−2·6	−2·9	+0·3
17. Rajputana, West	79·5	47·9	63·7	31·5	+2·1	−3·7	+5·8
18. Do., East	79·7	46·9	63·3	32·8	+2·1	−2·7	+4·8
19. Gujarat	85·7	54·3	70·0	31·4	+0·9	−2·3	+3·2
20. Central India, West	82·7	47·8	65·3	34·9	+3·7	−1·6	+5·3
21. Do. do., East	77·9	44·8	61·3	33·1	+2·7	−2·2	+4·9
22. Berar	88·5	57·1	72·8	31·3	+6·6	+0·7	+5·9
23. Central Provinces, West	83·7	49·7	66·7	34·0	+4·1	−1·9	+6·0
24. Do. do., East	83·0	49·2	66·1	33·9	+3·9	−1·7	+5·6
25. Konkan	86·7	67·5	77·1	19·1	−0·2	−1·0	+0·8
26. Bombay Deccan	88·0	53·9	71·0	34·1	+3·9	−1·3	+5·2
27. Hyderabad, North	88·7	54·3	71·5	34·4	+6·0	−2·0	+8·0
28. Do., South	87·9	59·2	73·6	28·7	+3·9	−0·9	+4·8
29. Mysore	83·2	56·7	69·9	26·5	+2·7	−2·2	+4·9
30. Malabar	86·9	70·8	78·9	16·1	−0·1	−0·9	+0·8
31. Madras, South-east	84·4	67·2	75·8	17·2	+0·3	−1·8	+2·1
32. Do., Deccan	89·0	60·7	74·8	28·3	+2·5	−1·4	+3·9
33. Do., Coast, North	83·0	63·6	73·3	19·4	+1·2	−1·6	+2·8

TABLE 12.

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

Surface and upper air winds.

11. *Surface.*—Wind directions were somewhat more westerly than usual in the Gangetic plain, Bengal and on the south Coromandel coast.

The following table gives the mean wind velocity and steadiness with their departures from normal :—

TABLE 13.

Division.	Hourly wind velocity.		Wind steadiness.	
	Actual.	Departure from normal.	Actual.	Departure from normal.
Burma	2·4	—0·1	56	— 1
Assam	1·5	—0·4	28	— 8
Bengal	1·1	—0·5	45	— 3
Bihar and Orissa	1·6	—0·2	47	0
United Provinces	1·2	—0·1	41	+18
Punjab	1·9	+0·7	29	+12
North-West Frontier Province	0·7	—0·5	25	+ 5
Sind	3·3	—0·9	44	— 7
Rajputana	1·9	—0·2	28	+11
Bombay	3·4	—1·1	55	— 6
Central India	0·8	—1·4	11	—24
Central Provinces	2·1	0	39	— 1
Hyderabad	3·5	—0·8	41	— 1
Mysore	4·1	—0·9	51	—35
Madras	3·9	—0·2	63	— 4

Upper air.—The monthly mean velocities and directions at different heights above Agra, Simla, Lahore and Bangalore during the month are given in the following table :—

TABLE 14.

Height above sea, kms.	Agra. Height above sea = 0·17 km.				Simla. Height above sea = 2·13 kms.				Lahore. Height above sea = 0·21 km.				Bangalore. Height above sea = 0·92 km.			
	n	V	v	L	n	V	v	L	n	V	v	L	n	V	v	L
Ground level.	32	2·3	1·8	297	29	1·9	0·5	103	25	0·1	0·0	229	30	3·0	2·6	80
0·5	33	8·2	6·7	333	...	...	...	...	25	5·2	3·8	323	...	...	...	...
1·0	33	7·3	6·0	308	...	...	...	...	25	4·7	3·1	312	30	4·0	3·8	80
1·5	33	8·0	7·0	296	...	...	...	...	24	4·9	3·5	293	30	6·3	5·7	75
2·0	33	8·3	7·1	290	...	...	...	...	24	5·6	3·7	277	29	6·7	6·0	79
2·5	32	8·9	7·3	281	29	4·4	0·2	306	25	6·4	4·9	261	29	6·7	6·1	87
3·0	32	9·8	8·4	278	29	4·8	1·7	216	25	8·0	6·7	256	29	6·6	6·0	89
3·5	31	11·3	10·4	279	29	5·8	2·6	247	23	9·7	8·0	258	29	7·3	6·4	92
4·0	30	12·7	12·2	282	27	8·4	5·4	260	23	11·4	10·0	261	29	8·1	7·1	94
4·5	26	14·7	14·1	276	24	11·0	8·4	265	23	14·4	13·4	263	29	8·8	7·3	97
5·0	25	17·8	17·0	275	22	14·4	12·3	255	22	17·3	16·0	265	28	9·7	8·1	102
5·5	24	20·3	19·3	273	18	18·9	17·5	260	21	20·1	18·8	262	28	10·0	8·0	103
6·0	21	22·0	21·0	272	16	24·5	22·7	263	18	21·8	20·7	263	26	8·9	7·2	102
6·5	18	22·5	21·3	272	11	29·3	27·0	267	17	24·4	23·4	263	24	8·2	6·0	99
7·0	17	24·1	22·8	267	8	30·1	28·4	261	13	27·9	26·9	263	23	8·0	5·5	105
7·5	16	26·1	25·3	265	6	34·8	32·9	258	9	27·4	26·9	257	22	7·7	4·9	98
8·0	15	28·5	28·0	263	4	36·3	35·1	245	7	30·9	30·3	259	19	7·6	4·0	92
8·5	13	30·7	30·2	264	2	33·7	33·7	258	4	32·5	31·7	259	17	8·0	4·0	94
9·0	11	33·0	32·5	265	1	41·0	41·0	255	1	26·0	26·0	275	15	6·8	3·4	116
9·5	10	37·3	36·7	263	1	43·5	43·5	255	1	27·5	27·5	265	15	6·9	1·9	145
10·0	7	42·6	41·9	261	...	...	...	...	1	31·5	31·5	270	14	6·5	4·4	161
10·5	2	45·5	44·9	264	...	...	...	...	1	35·0	35·0	270	14	7·6	4·9	165
11·0	...	...	...	...	...	...	...	...	1	36·0	36·0	275	12	9·3	5·6	161
11·5	...	...	...	...	...	...	...	...	...	...	...	...	9	9·7	6·7	187
12·0	...	...	...	...	...	...	...	...	...	...	...	...	7	10·3	8·0	200
12·5	...	...	...	...	...	...	...	...	...	...	...	...	8	11·1	9·5	185
13·0	...	...	...	...	...	...	...	...	...	...	...	...	5	11·7	10·3	195
13·5	...	...	...	...	...	...	...	...	...	...	...	...	5	11·2	9·3	186
14·0	...	...	...	...	...	...	...	...	...	...	...	...	3	10·0	9·0	164
14·5	...	...	...	...	...	...	...	...	...	...	...	...	1	10·0	10·0	205
15·0	...	...	...	...	...	...	...	...	...	...	...	...	1	12·0	12·0	190
15·5	...	...	...	...	...	...	...	...	...	...	...	...	1	14·5	14·5	160
16·0	...	...	...	...	...	...	...	...	...	...	...	...	1	18·0	18·0	175
16·5	...	...	...	...	...	...	...	...	...	...	...	...	1	22·5	22·5	165
17·0	...	...	...	...	...	...	...	...	...	...	...	...	1	18·0	18·0	170

n = Number of flights. V = Velocity of wind regardless of direction, metre per sec.
v = Velocity of Resultant Wind, taking account of direction, metre per sec.
L = Direction " " North Wind = 0° or 360° East Wind = 90°.

Humidity and cloud.

12. The following table gives the mean humidity, vapour tension and cloud amount at 8 hours with their departures from normal :—

TABLE 15.

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	— 4	·583	+ ·007	3·5	+0·4
Assam . . .	92	— 2	·473	+ ·044	4·4	+1·3
Bengal . .	80	— 5	·439	—·017	0·8	—1·0
Bihar and Orissa .	67	—10	·327	—·060	0·5	—1·0
United Provinces .	63	—15	·254	—·064	0·5	—0·9
Punjab . .	57	—16	·190	—·056	1·7	—0·9
North-West Frontier Province.	65	— 6	·191	—·023	2·5	—0·6
Sind . . .	46	—14	·212	—·075	1·1	—1·1
Rajputana . .	43	—14	·175	—·076	0·9	—1·1
Bombay . .	51	— 7	·336	—·056	0·5	—1·0
Central India .	47	—17	·224	—·071	0·7	—1·0
Central Provinces .	42	—22	·224	—·120	0·9	—1·1
Hyderabad . .	47	—16	·321	—·105	0·6	—1·3
Mysore . .	68	— 7	·444	—·023	1·0	—2·9
Madras . .	76	— 1	·608	—·030	1·9	—1·8

Rainfall.

13. The total rainfall of the month was 52 per cent. above normal in Lower Burma ; Baluchistan and the Bay Islands had about half the normal amount, and Kashmir nearly 40 per cent. Between 20 and 30 per cent. was received in Assam, the Punjab Southwest, the North-West Frontier Province and Malabar, and about 10 per cent. in the Punjab East and North, Sind and Madras Southeast. Elsewhere there was no rain.

In Persia the month's rainfall did not depart appreciably from the normal, but was irregularly distributed. At Zanzibar and Seychelles rainfall was above normal.

TABLE 16.

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
1. Bay Islands	3·3	3·2	1·84	3·50	—1·66	— 47
2. Lower Burma	1·1	0·6	0·73	0·48	+0·25	+ 52
3. Upper Burma	0	0·9	0	0·48	—0·48	—100
4. Assam	0·2	0·9	0·08	0·39	—0·31	— 79
5. Bengal	0	0·3	0	0·20	—0·20	—100
6. Orissa	0	0·5	0	0·31	—0·31	—100
7. Chota Nagpur	0	0·4	0	0·20	—0·20	—100
8. Bihar	0	0·3	0	0·13	—0·13	—100
9. United Provinces, East	0	0·5	0	0·24	—0·24	—100
10. Do. do., West	0	0·8	0·01	0·38	—0·37	— 97

Sub-division.	Number of rainy days.		Rainfall.			
	Actual.	Normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
			"	"	"	
11. Punjab, East and North	0·2	0·9	0·06	0·47	−0·41	− 87
12. Do., South-west	0·2	0·5	0·06	0·20	−0·14	− 70
13. Kashmir	1·6	2·9	0·74	1·91	−1·17	− 61
14. North-West Frontier Province	0·6	1·1	0·12	0·57	−0·45	− 79
15. Baluchistan	0·8	1·8	0·34	0·71	−0·37	− 52
16. Sind	0·1	0·2	0·01	0·09	−0·08	− 89
17. Rajputana, West	0	0·3	0	0·13	−0·13	−100
18. Do., East	0	0·6	0	0·25	−0·25	−100
19. Gujarat	0	0·1	0	0·05	−0·05	−100
20. Central India, West	0	0·5	0	0·20	−0·20	−100
21. Do., East	0	0·5	0	0·23	−0·23	−100
22. Berar	0	0·8	0	0·44	−0·44	−100
23. Central Provinces, West	0	0·7	0	0·39	−0·39	−100
24. Do., East	0	0·7	0	0·38	−0·38	−100
25. Konkan	0	0·3	0	0·15	−0·15	−100
26. Bombay Deccan	0	0·5	0	0·31	−0·31	−100
27. Hyderabad, North	0	0·7	0	0·37	−0·37	−100
28. Do., South	0	0·4	0	0·21	−0·21	−100
29. Mysore	0	0·9	0	0·49	−0·49	−100
30. Malabar	0·7	2·5	0·39	1·84	−1·45	− 79
31. Madras, South-east	0·6	4·2	0·27	3·49	−3·22	− 92
32. Do. Deccan	0	0·8	0	0·45	−0·45	−100
33. Do. Coast, North	0	1·0	0	0·94	−0·94	−100

TABLE 17.

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Burma	0·31	0·48	−0·17	− 35
Assam	0·08	0·39	−0·31	− 79
Bengal	0	0·20	−0·20	−100
Bihar and Orissa	0	0·19	−0·19	−100
United Provinces	0	0·32	−0·32	−100
Punjab	0·06	0·40	−0·34	− 85
North-West Frontier Province	0·12	0·57	−0·45	− 79

Division.	Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Sind	0·01	0·09	−0·08	− 89
Rajputana	0	0·22	−0·22	−100
Bombay	0	0·20	−0·20	−100
Central India	0	0·21	−0·21	−100
Central Provinces	0	0·40	−0·40	−100
Hyderabad	0	0·30	−0·30	−100
Mysore	0	0·49	−0·49	−100
Madras	0·20	2·20	−2·00	− 91
Mean of India	0·08	0·50	−0·42	− 84

Snowfall.

I. CENTRAL ASIA.

14. *Kashgar.*—Snow fell on 5 days, the total amount being about 6 inches.

I(*a*). PERSIA.

Meshed.—Snow fell on 3 days to a total depth of about 2 inches.

II. BALUCHISTAN.

Quetta.—No snow fell in this district or in the neighbourhood before the 7th, the date of the report.

III. THE NORTH-WEST FRONTIER PROVINCE.

(*a*) *Wana.*—No snow fell on the South Waziristan hills till the 8th (the date of the report).

(*b*) *Kurram.*—No snow fell till the 23rd December, the date of the report.

(*c*) *Drosh.*—No snow fell up to 19th December, the date of the report.

(*d*) *Hazara.*—Snow fell on the following dates :—

TABLE 18.

Locality.	Height in feet.	3rd.		24th.	25th.	28th.	29th.	30th.
		Ft.	In.	Ft.	In.	Ft.		In.
Narang	8000	...		1	0	2		1
Paludran	7300	...		0	8	1		10
Kagan	6600	...		0	6	1		2
Jared	5000	...		0	2	0		6
Malkandi	4500	...		0	2	0		3
Sundigali	7000	...		0	6	0		3
Jachha	6500	...		0	4	0		2
Thandiani	8800	0	7	1	0		...	
Dungagali	5000	0	3	0	9		...	

The depth of accumulation was 2 feet on Narang, 1 foot on Paludran, ¾ foot on Kagan, 1⅙ feet on Thandiani and ½ foot on Dungagali. The month's fall was considered abnormally small.

IV.—KASHMIR.

(*a*) *Srinagar.*—The first snowfall of the season was on the 25th; the total precipitation was 0·65″, considerably less than the average.

(*b*) *Sonamarg* had 4 feet till 25th (the date of report).

(*c*) *Skardu.*—There was a light fall on the 29th. Heavy snow was visible on high mountains, but the depth was not known. The route to Srinagar *viâ* Deosai remained closed, and that *viâ* Kargil, though passable, was dangerous at Zojila.

(*d*) *Dras.*—Snow fell on the 7th, 9th, 19th and 20th, and almost every day between the 25th and 31st. The total fall was equivalent to 1·03″ of rain.

(*e*) *Kargil.*—Snow fell at the station and on the surrounding peaks on the 6th, 8th, 19th and 29th. The total depth was 11″ on ground and 2⅙ feet on the mountains.

(*f*) *Leh.*—Light snowfall occurred on the 10th. Passes to the north of Leh were still open.

V.—THE PUNJAB.

(*a*) *Kulu* (*Kangra*).—Weather was very dry up to 21st December, the date of the report.

(*b*) *Kilba* (*Simla Hills*).—Snow fell to a total depth of 10″ on the 19th, 24th and 25th. All the passes were closed and the accumulations amounted to 4 feet on the Harang pass, 7 feet on the Charang pass, 6 feet on the Rupan pass, 6 feet on Brua pass and 7 feet on the Shatul pass.

VI.—THE UNITED PROVINCES.

Almora.—The total snowfall of the month amounted to 3½ feet on Chaudas and on Malla Johar and 6 feet on Malla Danpur. The snow is reported to have descended to two miles below the snowline in Chaudas. The valleys in Malla Danpur were closed to traffic.

Snow accumulations were reported as follows :—

TABLE 19.

Locality.	Name of pass or peak.	Depth of accumulation.
Malla Danpur	Pindari peak Kaphini „ Kuntela „ Nandakot Puwalidwar	6 feet.
Malla Johar	Milamdhura Bagadwar and other peaks	6¼ „
Chaudas	Binkaru pass	8 „
Malla Darma	Panchachuli peak	4½ „
	Mandap	3½ „
	Dave	3½ „

VII.—NORTH-EAST HIMALAYAS.

Sikkim.—Winter conditions at Yatung and Gangtok were mild.

Sadiya Frontier Tract.—Heavy snow fell, but the month's total fall was not abnormal.

Summary.

15. The weather was unusually dry and the snowfall of the month was considerably below the average except in parts of Almora, where it was above normal.

V. DORAISWAMY IYER,
Acting Scientific Assistant.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 13 stations in India, etc., in December, 1920.

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. 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.	Temperature of air. 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.	Temperature, wet-bulb. 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	30·037	29·913	·124	29·969	−·059	29·938	78·2	55·0	23·2	81·5	50·4	31·1	70·7	77·2	65·6	+0·3	53·0	60·8	62·3	58·7
	VI.—Punjab.																					
11	Lahore	702	29·346	29·258	·088	29·292	−·063	29·995	73·0	41·7	31·3	79·0	36·3	42·7	58·0	71·5	55·1	+0·5	38·9	49·2	56·6	48·2
	IX.—Rajputana.																					
18	Jaipur	1,431	28·640	28·544	·096	28·581	−·029	29·989	79·4	45·8	33·6	84·8	38·5	46·3	70·3	74·3	60·7	−0·8	40·3	52·5	55·9	49·6
	X.—Bombay.																					
25	Bombay	37	29·985	29·877	·108	29·926	−·023	29·902	85·3	69·7	15·6	90·0	65·1	24·9	76·3	81·4	76·7	+0·3	61·7	67·8	71·8	67·1
	XIV.—Mysore.																					
29	Bangalore	3,021	27·034	26·923	·111	26·980	−·002	29·841	82·1	55·1	27·0	85·3	50·1	35·2	73·2	79·6	67·7	+0·2	53·9	60·2	61·7	58·6
	XV.—Madras.																					
31	Trivandrum	196	29·773	29·669	·104	29·725	−·002	29·851	83·7	72·2	11·5	85·5	68·1	17·4	79·5	82·3	77·2	−0·2	69·5	73·4	75·4	72·8
	Pudukkottai	318	29·711	29·584	·127	29·647		29·898	84·2	68·2	16·0	87·3	63·9	23·4	78·6	81·9	76·2			69·2	70·1	
	Madras	22	30·015	29·913	·102	29·963	−·017	29·916	84·6	68·3	16·3	86·4	62·8	23·6	79·9	81·6	75·7	0	66·2	71·3	70·7	69·4
	Kashmir.																					
13	Srinagar	5,204	25·018	24·918	·100	24·968	−·053	24·940	48·3	24·5	23·8	58·8	18·1	40·7	37·2	46·8	36·4	+0·1	24·0	34·2	39·8	32·7
	Hill stations, excluding Kashmir and Baluchistan.																					
	Katmandu	4,388	25·749	25·690	·059	25·716	+·006	25·670	68·5	39·9	28·6	72·2	30·8	41·4	52·2	63·2	53·3	+0·7	38·1	48·1	53·7	46·6
	Kodaikanal	7,388	22·859	22·800	·059	22·829		22·765	65·0	47·1	17·9	70·3	39·6	30·7	61·7	59·4	56·0		39·2	49·1	51·6	46·6
	Extra India.																					
	Seychelles	15	29·959	29·880	·079	29·929	−·007*	29·968	82·6	76·4	6·2	85·3	74·4	10·9	80·4	80·7	78·4	+0·5*	71·9	76·2	76·2	74·1
	Mauritius	181				29·832	+·009	29·898	84·6	71·1	13·5	89·8	64·2	25·6			76·8	−0·9				

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 13 stations in India, etc., in December, 1920.

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.	
·377	·402	·365	·393	−·045	87	53	39	63	− 8	0·1	0	0·1	−1·7	2	8	2	1	0	0	2	12	35	N 47° W	N 13° W	77	63	47	44	0	0	Calcutta.	5
																															VI.—Punjab.	
·201	·234	·262	·230	−·041	76	49	35	55	− 8	1·8	2·7	2·3	−0·5	27	1	0	0	5	3	1	2	23	N 57° W	N 36° W	31	21	21	23	0	0	Lahore.	11
																															IX.—Rajputana.	
·186	·179	·186	·183	−·084	59	24	19	39	−14	1·0	1·1	1·1	−1·4	11	2	3	3	2	3	8	15	15	N 79° W	N 27° W	40	27	49	51	0	0	Jaipur.	18
																															X.—Bombay.	
·441	·568	·652	·579	−·060	61	63	61	65	− 7	0·3	0·3	0·3	−1·6	0	7	9	18	1	0	0	5	22	N 9° E	N 15° E	47	55	141	170	0	0	Bombay.	25
																															XIV.—Mysore.	
·402	·373	·242	·287	−·079	92	46	34	59	−11	0·6	1·4	1·0		7	0	25	24	5	1	0	0	0	N 74° E	N 72° E	76	81	125	96	0	0	Bangalore.	29
																															XV.—Madras.	
·683	·741	·780	735	+·027	87	74	70	81	+ 3	4·3	5·5	4·9	+0·6	8	5	4	2	1	6	17	15	4	S 72° W	N 81° W	42	34	53	65	0	0	Trivandrum.	31
	·588	·577				61	54			3·0	4·5	3·7		8	4	48	2	0	0	0	0	0	N 44° E		81		104		0·30	0·21	Pudukkottai.	
·613	·652	·601	·642	−·087	89	64	56	71	−11	4·2	1·8	3·0	−2·5	2	19	27	9	3	2	0	0	0	N 42° E	N 24° E	76	81	57	128	0·01	0·01	Madras.	
																															Kashmir.	
·127	·165	·169	·154	−·022	95	75	55	75	− 6	5·0	5·0	5·0	−0·1	29	6	3	1	5	6	0	2	10	N 24° W	S 36° E	10	3	44	45	0·65	0·30	Srinagar.	13
																															Hill stations, excluding Kashmir and Baluchistan.	
·211	·294	·306	·275	+·097	85	75	52	74	− 1	2·2	1·6	1·9	−0·7	0	1	0	31	0	1	0	29	0	E	N 72° E	6	43	10	16	0·03	0·03	Katmandu.	
·163	·222	·306	·230		50	43	62	52		2·5	4·3	3·4		1	11	10	13	9	7	0	3	8	N 59° E		34		180		0·58	0·28	Kodaikanal.	
																															Extra India.	
·723	·849	·846	·831	−·001	79	82	81	83	0	6·0	6·8	6·4	−0·4*	4	9	3	0	5	0	0	0	41	N 33° W	N 44° W	69	55	119	169	15·60	2·59	Seychelles	
			·663	−·027				71	− 1			5·9	+0·5										N 85° E	S 88° E			194	187	2·08	0·74	Mauritius.	

* Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 212 stations in India, etc., in December, 1920.

(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	−·056	83·5	+1·6	63·0	+1·3	73·3	+1·4	20·5	−0·1	−1	82	−4	·583	+·007	3·5	+0·4	0·31	0·48	−0·17
Assam	−·053	77·9	+2·4	54·8	+2·7	66·4	+2·5	23·1	−0·4	−8	92	−2	·473	+·044	4·4	+1·3	0·08	0·39	−0·31
Bengal	−·047	78·8	+1·2	56·0	+0·3	67·4	+0·8	22·8	−0·5	−3	80	−5	·439	−·017	0·8	−1·0	0	0·20	−0·20
Bihar and Orissa	−·044	78·7	+1·9	51·0	−1·7	64·8	+0·1	27·8	−0·2	0	67	−10	·327	−·060	0·5	−1·0	0	0·19	−0·19
United Provinces of Agra and Oudh	−·047	77·3	+2·4	46·5	−1·3	61·9	+0·6	30·8	−0·1	+18	63	−15	·254	−·064	0·5	−0·9	0	0·32	−0·32
Punjab	−·050	73·8	+2·1	42·0	−0·9	57·9	+0·6	31·8	+0·7	+12	57	−16	·190	−·056	1·7	−0·9	0·06	0·40	−0·34
North-West Frontier Province	−·059	70·5	+0·8	39·5	−0·4	54·9	+0·3	31·1	−0·5	+5	65	−6	·191	−·023	2·5	−0·6	0·12	0·57	−0·45
Sind	−·034	75·3	−2·6	49·1	−2·9	62·2	−2·8	26·2	−0·9	−7	46	−14	·212	−·075	1·1	−1·1	0·01	0·09	−0·08
Rajputana	−·035	79·6	+2·1	47·3	−3·1	63·5	−0·5	32·3	−0·2	+11	43	−14	·175	−·076	0·9	−1·1	0	0·22	−0·22
Bombay	−·020	86·7	+1·7	57·1	−1·7	71·9	0	29·6	−1·1	−6	51	−7	·336	−·056	0·5	−1·0	0	0·20	−0·20
Central India	−·035	80·3	+3·1	46·3	−1·9	63·3	+0·7	34·0	−1·4	−24	47	−17	·224	−·071	0·7	−1·0	0	0·21	−0·21
Central Provinces	−·033	84·6	+4·5	51·2	−1·3	67·9	+1·6	33·3	0	−1	42	−22	·224	−·120	0·9	−1·1	0	0·40	−0·40
Hyderabad	−·025	88·2	+4·3	57·6	−1·2	72·9	+1·6	30·6	−0·8	−1	47	−16	·321	−·105	0·6	−1·3	0	0·30	−0·30
Mysore	−·011	83·2	+2·7	56·7	−2·2	69·9	+0·3	26·5	−0·9	−35	68	−7	·444	−·023	1·0	−2·9	0	0·49	−0·49
Madras	−·010	85·1	+0·7	66·1	−1·5	75·5	−0·4	19·0	−0·2	−4	76	−1	·608	−·030	1·8	−1·8	0·20	2·20	−2·00

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·782		29·861	29·839	16th	29·723	2nd	77·0	73·6	82·7		73·6		78·2		9·1	88·5	29th	70·8	17th
	Mergui	66	29·880	—·058	29·876	29·947	29th	29·805	2nd	75·2	72·2	84·3	—2·7	72·3	+5·0	78·3	+1·1	12·0	88·4	30th	67·7	25th
	Tavoy	19	29·933	—·069	29·884	29·994	29th	29·860	2nd	75·1	71·5	87·5	—0·2	70·0	+4·9	78·7	+2·3	17·5	92·0	31st	63·7	17th
	Moulmein	77	29·907	—·052	29·922	29·974	19th	29·819	1st	75·2	70·9	88·2	+0·9	70·1	+3·1	79·1	+2·0	18·1	91·0	10th, 13th & 24th.	63·1	22nd
	Rangoon	18	29·967	—·050	29·923	30·039	19th	29·884	1st	72·9	68·5	88·2	+1·1	69·9	+2·6	79·1	+1·9	18·3	90·7	17th	64·6	1st
	Bassein	27	29·978	—·035	29·942	30·047	29th	29·897	1st	73·0	68·1	86·0	+1·7	65·8	+0·4	75·9	+1·1	20·2	89·6	15th	60·2	21st
	Diamond Island	41	29·927	—·059	29·903	30·010	19th	29·858	1st	79·4	73·4	84·8	+1·2	74·2	+1·8	79·6	+1·5	10·5	88·2	11th	70·9	22th
	Toungoo	164	29·835	—·052	29·941	29·914	18th	29·737	1st	67·3	64·8	84·1	+0·9	59·7	—1·9	71·9	—0·5	24·4	86·5	11th	51·4	22nd
	Kyaukpyu	18	29·971		29·929	30·060	29th	29·884	4th	72·4	68·6	80·6		66·3		73·4		14·3	83·0	13th	59·5	31st
	Akyab	20	29·960	—·069	29·921	30·051	29th	29·866	4th	64·2	61·9	79·3	—1·3	59·1	—4·4?	69·4	—2·9?	20·7	81·8	28th	50·8	31st
2	Minbu	*165*	29·834	—·076	29·948	29·915	29th	29·717	1st	65·6	61·1	83·3	+0·4	59·4	—1·1	71·4	—0·3	23·9	85·9	16th	53·7	31st
	Yamethin	644	29·345	—·056	29·928	29·463	27th	29·238	1st	65·7	60·6	86·6	+2·8	58·4	+0·4	72·5	+1·6	28·2	89·9	11th	53·4	30th
	Mandalay	250	29·779	—·040	29·885	29·895	29th	29·666	4th	70·0	63·2	87·1	+3·9	58·4	—1·0	72·7	+1·5	28·7	89·0	12th	52·7	21st
	Monywa	*980*	29·753	—·057	29·994	29·867	29th	29·638	1st	64·8	61·3	84·6	+4·3	59·4	—0·1	72·0	+2·1	25·2	86·8	7th	53·2	31st
	Lashio	*2,840*	27·201	—·041	27·147	27·286	19th	27·107	4th	55·5	53·7	75·2	+1·4	49·3	+1·2	62·3	+1·3	25·9	79·0	15th	42·9	30th
	Bhamo	*361*	29·647	—·064	29·983	29·788	29th	29·543	1st	57·0	56·0	78·5	+3·3	52·9	+1·7	65·7	+2·5	25·6	81·7	11th & 16th.	41·5	13th
	Myitkyina	463	29·554	—·066	29·999	29·688	29th	29·432	1st	57·8	56·8	78·0	+3·0	52·7	+1·0	65·3	+2·0	25·3	84·0	8th	46·2	28th
	II.—Assam.																					
4	Dibrugarh	353	29·675	—·075	30·009	29·847	29th	29·5[illegible]8	1st	58·0	57·3	76·3	+3·2	54·3	+4·0	65·3	+3·6	22·0	80·5	15th	45·7	30th
	Sibsagar	333	29·705	—·080	30·017	29·895	29th	29·592	1st	56·4	55·5	73·4	+2·1	54·2	+3·7	63·8	+2·9	19·2	76·2	7th & 10th.	47·1	30th
	Tezpur	252	29·807	—·038	30·031	29·982	29th	29·704	1st	59·1	58·1	77·4	+3·3	56·9	+3·8	67·1	+3·5	20·5	80·0	12th	47·3	30th
	Gauhati	196	29·860	—·050	30·021	29·992	29th	29·752	1st	61·1	59·7	78·9	+3·6	55·2	+3·9	67·1	+3·7	23·7	81·0	1st	45·5	30th
	Dhubri	115	29·924	—·054	29·998	30·053	29th	29·819	1st	62·3	60·2	75·9	+1·5	58·7	+4·1	67·3	+2·8	17·2	79·8	1st	50·6	28th
	Silchar	104	29·984	—·022	30·024	30·090	29th	29·872	1st	65·7	62·8	81·5	+1·8	56·4	+1·6	69·0	+1·7	25·1	84·4	14th	49·4	31st
	Srimangal	68	29·974		29·994	30·095	29th	29·886	1st	55·4	54·3	82·0	+1·0	47·7	—1·9	64·9	—0·5	34·3	84·2	14th	39·3	30th
	III.—Bengal.																					
5	Cox's Bazar	36	29·970		29·952	30·078	29th	29·888	1st & 4th.	64·6	61·7	80·9		57·6		69·2		23·3	83·3	29th	51·9	31st
	Chittagong	87	29·944	—·033	29·960	30·039	29th	29·851	4th	61·3	59·8	79·9	+1·6	56·4	—1·2	68·2	+0·2	23·5	82·8	14th	48·1	30th
	Noakhali	43	29·935	—·029	29·987	30·107	29th	29·905	1st	64·0	61·4	79·5	+1·5	58·6	+4·1?	69·0	+2·8?	20·9	81·3	12th & 17th.	49·4	30th
	Barisal	12	30·008	—·049	29·988	30·127	29th	29·917	1st	64·3	60·7	78·6	+0·8	56·9	+0·8	67·8	+0·8	21·7	80·9	4th	49·2	29th
	Narayanganj	26	30·005	—·046	29·981	30·132	29th	29·910	1st	63·8	60·3	79·0	+0·9	56·9	+1·6	68·9	+1·3	20·1	81·9	12th	50·8	9th

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

B.

stations in India, etc., in December, 1920.

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 Nov. to 31st Dec. 1920.	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.
6	6	10	2	3	2	1	0	1	N 47° E		4·2			46		85		·781		6·3		11	+6·2	11·42	2·16	+ 9·26	15·31	8·72	+ 6·59	4·70	Victoria Point.
9	0	0	4	2	0	0	0	0	S 75° E*	N 14° E	2·9†	1·3	+1·6	33	−32	86	+ 9	·753	+·066	4·0	+0·9	7	+5·8	6·95	0·41	+ 6·54	10·61	4·20	+ 6·41	5·39	Mergui.
27	1	2	0	0	0	0	0	1	N 13° E	N 30° E	1·4	0·9	+0·5	10	− 1	83	0	·721	+·063	5·4	+4·3	2	+1·6	0·47	0·24	+ 0·23	1·83	2·69	− 0·86	0·21	Tavoy.
3	0	14	14	0	0	0	0	0	N 67° E	N 50° E	1·8	2·0	−0·2	86	+29	80	− 3	·701	+·051	2·7	+0·8	1	+0·7	0·43	0·21	+ 0·22	1·16	2·42	− 1·26	0·35	Moulmein.
0	14	14	3	0	0	0	0	0	N 28° E	N 44° E	3·2	3·2	−0·1	89	+17	79	− 4	·639	+·015	5·7	+3·3	1	+0·5	0·17	0·36	− 0·19	3·86	3·09	+ 0·77	0·14	Rangoon.
18	7	4	1	0	0	0	0	1	N 17° E	N 40° E	2·9	2·6	+0·3	37	−28	77	− 9	·625	+·013	3·4	+1·1	0	−0·6	0·03	0·39	− 0·36	5·73	3·61	+ 2·12	0·03	Bassein.
0	8	19	3	0	0	0	0	1	N 35° E	N 42° E	7·0	6·5	+0·5	89	+ 3	74	0	·742	+·065	4·7	+1·7	3	+2·2	2·18	0·84	+ 1·34	16·74	5·87	+10·87	1·25	Diamond Island.
4	14	11	1	0	0	0	0	1	N 20° E	N 10° W	2·5	1·5	+1·0	79	+ 7	87	− 2	·578	+·003	2·0	−0·7	1	+0·5	0·70	0·42	+ 0·28	2·87	2·26	+ 0·61	0·70	Toungoo.
26	3	1	1	0	0	0	0	0	N 26° E		0·1			17		82		·646		0·9		0	−0·6	0	0·29	− 0·29	0·05	5·62	− 5·57	0	Kyaukpyu.
9	12	8	0	0	0	0	0	2	N 13° E	N 18° E	1·9	1·8	+0·1	66	−16	87	− 3	·523	−·055	1·2	−0·9	0	−0·8	0	0·70	− 0·70	0	4·78	− 4·78	0	Akyab.
2	1	0	0	0	0	1	5	22	N 51° W	N 50° W	1·5	5·0	−3·5	86	+12	76	− 2	·477	−·026	2·1	−0·1	0	−0·7	0	0·50	− 0·50	1·16	2·32	− 1·16	0	Minbu.
										N 13° W		2·5				73	−12	·462	−·049	0·8	−1·3	0	−0·8	0	0·49	− 0·49	0·55	2·16	− 1·61	0	Yamethin.
31	0	0	0	0	0	0	0	0	Calm	N 4° W	1·1	1·4	−0·3			67	−19	·491	−·038	2·0	−0·1	0	−0·8	0	0·36	− 0·36	0·42	2·01	− 1·59	0	Mandalay.
7	19	1	0	0	0	0	0	4	N 5° W		1·1			76		81	− 8	·496	−·025	2·2	−0·9	0	−0·8	0	0·42	− 0·42	0·38	2·19	− 1·81	0	Monywa.
31	0	0	0	0	0	0	0	0	Calm		1·7					89	− 5	·391	+·005	3·1	−2·6	0	−1·4	0	0·93	− 0·93	0·11	3·53	− 3·42	0	Lashio.
31	0	0	0	0	0	0	0	0	Calm	N 1° E	0·3	1·2	−0·9			94	0	·439	+·011	9·5	+6·1?	0	−1·4	0	0·61	− 0·61	0	2·11	− 2·11	0	Bhamo.
27	1	3	0	0	0	0	0	0	N 34° E		1·6			13		94	+ 5	·448	+·003	4·1	−0·2	0	−1·5	0	0·47	− 0·47	0	1·49	− 1·49	0	Myitkyina.
																															II.—Assam.
27	0	2	1	1	0	0	0	0	N 77° E		0·1			10		95	0	·459	+·066	4·3	+1·4	1	−0·3	0·77	0·44	+ 0·33	0·83	1·70	− 0·87	0·77	Dibrugarh.
26	0	1	1	1	2	0	0	0	E	N 63° E	0·3	1·2	−0·9	8	−21	95	− 4	·433	+·015	9·2	+3·7	1	−0·6	0·35	0·53	− 0·18	0·59	1·63	− 1·04	0·33	Sibsagar.
27	0	1	2	0	0	0	1	0	N 66° E		0·7			7		94	+ 1	·475	+·067	4·1	+2·0	0	−0·7	0	0·29	− 0·29	0	1·04	− 1·04	0	Tezpur.
31	0	0	0	0	0	0	0	0	Calm		0·6					92	− 5	·499	+·061	9·3	+2·3	0	−0·6	0	0·21	− 0·21	0	0·60	− 0·60	0	Gauhati.
6	1	12	9	1	1	1	0	0	N 68° E	N 54° E	3·1	3·4	−0·3	58	−13	89	− 1	·501	+·054	0·7	−0·5	0	−0·1	0	0·08	− 0·08	0	0·42	− 0·42	0	Dhubri.
25	0	2	4	0	0	0	0	0	N 75° E	S 81° E	1·0	1·1	−0·1	17	+10	84	− 6	·533	+·069	1·9	−1·2	0	−0·8	0	0·43	− 0·43	0·31	1·78	− 1·47	0	Silchar.
																93	+ 3	·411	−·022	1·0		0	−0·8	0	0·31	− 0·31	0	1·27	− 1·27	0	Srimangal.
																															III.—Bengal.
27	0	2	2	0	0	0	0	0	N 67° E		0·9			10		84		·511		0·3		0	−1·0	0	1·06	− 1·06	0·07	5·81	− 5·74	0	Cox's Bazar.
5	3	22	1	0	0	0	0	0	N 42° E	N 32° E	1·8	2·0	−0·2	76	+ 2	92	+ 3	·500	−·007	1·5	−0·6	0	−0·9	0	0·80	− 0·80	0·09	2·66	− 2·57	0	Chittagong.
4	27	0	0	0	0	0	0	0	N		1·5			87		86	− 2	·514	+·014	1·1	−0·3	0	−0·4	0	0·31	− 0·31	0	2·06	− 2·06	0	Noakhali.
10	5	4	0	0	0	0	6	6	N 32° W	N 11° E	1·2	1·2	0	46	+28	80	− 6	·484	−·025	0·4	−0·8	0	−0·7	0	0·44	− 0·44	0	1·99	− 1·99	0	Barisal.
20	2	1	0	0	0	0	2	6	N 39° W	N 5° W	0·5	1·5	−1·0	30	−17	80	− 7	·478	−·004	0·4	−1·8	0	−0·5	0	0·19	− 0·19	0	1·21	− 1·21	0	Narayanganj.

* Wind observations for 15 days.
† Mean of 15 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·969	—·048	29·987	30·088	29th	29·810	1st	61·9	59·5	79·1	+2·3	58·2	+3·2	68·7	+2·7	20·9	81·6	18th	48·1	29th
	Bogra	75	29·961	—·053	29·992	30·092	29th	29·868	1st	60·1	57·9	76·9	+0·3	55·8	+2·0	66·4	+1·1	21·1	79·9	15th	45·8	29th
	Dinajpur	123	29·902	—·062	29·986	30·034	29th	29·807	1st	59·5	56·5	77·7	+0·8	54·0	+3·1	65·9	+1·9	23·7	80·8	15th	43·0	29th
	Jalpaiguri	283	29·729	—·066	29·996	29·888	29th	29·618	1st	58·2	57·6	78·0	+2·3	55·9	+3·3	67·0	+2·8	22·1	81·5	15th	46·0	28th
	Saugor Island	10	30·038	—·040	29·994	30·154	29th	29·949	1st	64·5	60·1	78·2	+1·6	58·1	—0·9	68·1	+0·3	20·1	83·0	3rd	50·7	24th
	Midnapore*	149	29·898	—·055	30·005	30·033	29th	29·797	1st	59·6	51·9	80·7	+0·7	52·8	—2·7	66·8	—1·0	27·9	84·5	3rd	47·3	24th
	Calcutta	21	30·022	—·053	29·991	30·151	29th	29·930	1st	59·0	55·1	78·2	+1·2	55·0	—1·0	66·6	+0·1	23·2	81·5	3rd	50·4	30th
	Jessore	30	30·015	—·042	29·993	30·138	29th	29·920	1st	59·9	56·4	78·2	+0·7	54·3	—0·4	66·2	+0·1	23·9	80·8	19th	49·1	31st
	Burdwan	99	29·940	—·060	29·992	30·070	29th	29·852	1st	59·0	53·1	80·1	+1·6	53·6	—2·5	66·8	—0·5	26·5	83·8	2nd & 3rd	49·0	30th & 31st.
	Berhampore	67	29·991	—·038	30·008	30·098	29th	29·902	1st	60·4	56·4	77·5	+0·9	54·5	—0·9	66·0	0	23·0	80·9	3rd	48·4	29th
	IV.—Bihar and Orissa.																					
6	Balasore	50	30·007	—·045	30·005	30·143	29th	29·911	1st	58·3	54·2	82·6	+2·7	51·6	—4·1	67·1	—0·7	31·0	85·9	2nd	47·0	24th
	Hukitala (False Point)	29	30·023	—·040	29·993	30·119	29th	29·940	1st													
	Cuttack	80	29·977	—·039	30·002	30·090	29th	29·903	4th	60·1	56·8	80·9	—0·7	55·7	—3·2	68·3	—1·9	25·2	84·5	4th	53·2	7th & 13th.
	Puri	24	30·043	—·026	30·008	30·126	29th	29·970	1st	65·0	60·6	81·5	+1·0	61·4	—0·7	71·4	+0·1	20·1	85·2	3rd	58·0	13th
	Angul	455	29·588	—·037	30·013	29·695	29th	29·512	1st	61·0	54·9	82·7	+3·6	52·2	—2·4	67·5	+0·6	30·5	86·8	4th	48·4	24th
	Sambalpur	486	29·558	—·057	30·070	29·647	29th	29·488	3rd	59·1	53·9	82·7	+2·9	47·3	—6·8†	65·0	—1·9†	35·4	87·0	5th	43·7	25th
7	Chaibasa	*733*	29·289	—·051	30·021	29·395	29th	29·199	1st	53·7	50·3	80·7	+3·2	49·0	—2·0	64·9	+0·6	31·7	85·0	2nd	44·4	24th
	Ranchi	2,133	27·858	—·043	30·009	27·964	29th	27·780	1st	57·3	47·8	74·8	+1·5	49·7	—1·5	62·3	0	25·1	77·6	3rd	44·4	25th
	Purulia	*816*	29·232	—·019?	30·043	29·345	29th	29·131	1st	59·3	49·5	81·0	+2·9	52·8	—0·5	66·9	+1·2	28·2	85·3	3rd	48·1	25th
	Daltonganj	*730*	29·325	—·041	30·061	29·430	29th	29·229	1st	51·5	47·5	79·2	+2·5	42·5	—3·4	60·9	—0·5	36·7	85·8	26th	37·6	24th
	Purnea	124	29·915	—·063	30·001	30·060	29th	29·808	1st	55·8	53·2	77·5	+1·7	49·9	—0·5	63·2	+0·6	28·6	80·5	15th	39·3	29th
	Monghyr	155	29·810		30·007	30·026	29th	29·755	1st	57·5	51·5	76·2		53·0		64·6		23·3	81·7	2nd	46·7	30th
	Darbhanga	165	29·884	—·051	30·014	30·018	29th	29·767	1st	57·2	53·9	77·2	+2·3	51·2	—1·5	64·2	+0·4	26·0	80·4	2nd	43·0	30th
	Pusa	188	29·850		30·005	29·974	29th	29·733	1st	54·6	52·3	77·2		49·3		63·3		27·9	81·8	2nd	42·0	29th
	Patna	183	29·882	—·042	30·030	30·010	29th	29·760	1st	60·0	52·0	75·7	+1·4	50·9	—0·9	63·3	+0·3	24·8	80·9	2nd	47·0	28th
	Buxar	239	29·811	—·055	30·041	29·951	29th	29·683	1st	56·1	50·5	72·8†	—3·3?	49·2	—1·7	61·0†	—2·5?	23·6	82·8	2nd	43·6	29th
	Gaya	372	29·696	—·032	30·042	29·805	29th	29·585	1st	62·2	52·7	77·6	+1·3	51·6	+0·3	64·6	+0·8	26·0	83·2	25th	46·1	24th
	Naya Dumka	489	29·555	—·036	30·024	29·639	29th	29·455	1st	59·9	52·7	77·9	+1·8	50·1	—1·4	63·9	+0·2	27·8	81·6	3rd	45·2	29th
	V.—United Provinces of Agra and Oudh.																					
9	Gorakhpur	257	29·785	—·043	30·017	29·922	29th	29·673	1st	55·6	52·2	75·3	+1·1	48·7	—1·3	62·0	—0·1	26·6	79·3	3rd	42·3	29th
	Benares	267	29·786	—·049	30·025	29·916	29th	29·662	1st	55·6	50·2	77·3	+2·2	45·7	—2·1	61·5	+0·1	31·6	84·2	2nd	39·0	24th
	Allahabad	309	29·766	—·029	30·052	29·891	29th	29·647	1st	55·4	48·3	77·9	+2·1	47·1	—0·7	62·5	+0·7	30·8	85·0	1st	41·3	29th
	Cawnpore	416	29·637	—·046	30·040	29·749	29th	29·505	1st	52·7	46·5	77·8	+3·3	48·2	—0·3	63·0	+1·5	29·6	85·6	1st	41·6	23rd

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

* Mean of 24 days.
† „ „ 30 „

B—*continued.*

stations in India, etc., in December, 1920—*continued.*

Wind direction. Number of winds from Calm. (24)	N. (25)	N. E. (26)	E. (27)	S. E. (28)	S. (29)	S. W. (30)	W. (31)	N. W. (32)	Resultant direction. (33)	Normal direction. (34)	Wind velocity. Mean velocity, miles per hour. (35)	Normal. (36)	Departure from normal. (37)	Wind steadiness. Actual percentage. (38)	Departure from normal. (39)	Hygrometry, 8 hrs. Mean humidity at 8 hrs. (40)	Departure from normal. (41)	Mean vapour tension at 8 hrs. in inches of mercury. (42)	Departure from normal. (43)	Cloud. Mean cloud amount at 8 hrs. (44)	Departure from normal. (45)	Rainfall. Number of rainy days. (46)	Departure from normal. (47)	Rainfall of month. (48)	Normal rainfall of month. (49)	Departure from normal. (50)	Total rainfall from 1st Nov. to 31st Dec. 1920. (51)	Normal rainfall for this period. (52)	Departure from normal of this period. (53)	Heaviest rainfall during month. (54)	Station. (55)
																															III.—Bengal—*concld.*
31	0	0	0	0	0	0	0	0	Calm	N 36° E	0·1	0·7	−0·6			86	−4	·481	+·013	0·9	−0·6	0	−0·3	0	0·08	−0·08	0	0·89	−0·89	0	Mymensingh
20	1	0	0	0	0	0	4	6	N 58° W	N 1° W	0·5	1·0	−0·5	30	−15	87	+4	·455	+·033	4·4	+3·9?	0	−0·2	0	0·06	−0·06	0	0·80	−0·80	0	Bogra.
12	1	1	1	0	0	4	8	4	N 82° W	N 12° W	1·0	1·4	−0·4	40	−14	82	−5	·422	+·014	0·3	−0·8	0	−0·1	0	0·07	−0·07	0	0·32	−0·32	0	Dinajpur.
29	1	0	0	0	0	0	0	1	N 24° W	N 12° E	0·1			7	−17	96	+9?	·470	+·051	0	−1·1	0	−0·4	0	0·13	−0·13	0	0·35	−0·35	0	Jalpaiguri.
4	21	3	0	0	0	0	0	3	N	N 15° E	3·8	4·3	−0·5	81	−1	76	−11	·462	−·054	0·3	−1·2	0	−0·6	0	0·30	−0·30	0·06	1·75	−1·69	0	Saugor Island.
13	7	1	0	0	0	0	0	3	N 6° W		1·3†			42		56	−12	·287	−·096	0·1	−1·1	0	−0·3	0	0·29	−0·29	0	1·11	−1·11	0	Midnapore.
3	4	1	0	0	0	0	2	21	N 40° W	N 4° W	2·0	1·8	+0·2	79	+29	77	−4	·382	−·058	0·3	−1·2	0	−0·4	0	0·22	−0·22	0·02	0·88	−0·86	0	Calcutta.
31	0	0	0	0	0	0	0	0	Calm	N 11° W	0·1	1·1	−1·0			79	−5	·411	−·039	0·3	−1·0	0	−0·5	0	0·22	−0·22	0	1·30	−1·30	0	Jessore.
11	2	0	0	0	0	0	1	17	N 43° W	N 22° W	0·7	1·2	−0·5	62	+23	65	−8	·324	−·066	0·2	−1·4	0	−0·3	0	0·17	−0·17	0	0·89	−0·89	0	Burdwan.
25	2	0	0	0	0	0	1	3	N 37° W	N 41° W	0·5	1·0	−0·5	17	−23	77	−7	·406	−·021	1·0	−0·7	0	−0·3	0	0·14	−0·14	0	0·76	−0·76	0	Berhampore.
																															IV.—Bihar and Orissa.
15	5	1	0	0	0	0	1	9	N 29° W	N 25° W	0·9	1·5	−0·6	46	−26	75	−3	·367	−·055	0·2	−1·2	0	−0·5	0	0·24	−0·24	0	1·51	−1·51	0	Balasore.
1	20	1	0	0	1	0	0	8	N 11° W		3·8			86	0					3·1	+0·4	0	−0·8	0	0·67	−0·67	2·08	3·77	−1·69	0	Hukitala (False Point).
26	0	0	1	0	0	2	2	0	S 59° W	N 43° W	0·5	0·9	−0·4	7	−7	81	+4	·417	−·037	0·5	−1·8	0	−0·6	0	0·32	−0·32	0	1·82	−1·82	0	Cuttack.
0	19	12	0	0	0	0	0	0	N 18° E		5·3			94		76	−1	·472	−·037	0·1	−1·3	0	−0·5	0	0·35	−0·35	0·21	3·82	−3·61	0	Puri.
2	0	0	0	0	0	0	0	23	N 54° W		3·5			87		65	−14	·354	−·073	0·1	−1·5	0	−0·8	0	0·31	−0·31	0	1·43	−1·43	0	Angul.
0	6	8	1	0	0	0	0	16	N 12° W	N 16° E	1·1	1·8	−0·7	79	−2	69	−5	·348	−·058	0	−1·8	0	−0·4	0	0·24	−0·24	0	1·14	−1·14	0	Sambalpur.
26	0	0	0	0	0	5	0	0	S 45° W	S 68° W	1·0	0·7	+0·3	13	−27	78	−8	·323	−·055	0·1	−1·4	0	−0·5	0	0·21	−0·21	0	0·98	−0·98	0	Chaibasa.
7	1	0	0	0	0	3	8	12	N 69° W	N 68° W	3·3	3·1	+0·2	66	+27	46	−18	·217	−·092	0·5	−1·1	0	−0·6	0	0·21	−0·21	0	0·66	−0·66	0	Ranchi.
8	0	0	0	0	0	0	23	0	W		1·8			74		45	−24	·227	−·118	0·3	−1·0	0	−0·5	0	0·14	−0·14	0	0·75	−0·75	0	Purulia.
30	0	0	0	0	0	0	0	1	N 45° W		1·7			3		73	−8	·277	−·068	0	−1·2	0	−0·5	0	0·23	−0·23	0	0·68	−0·68	0	Daltonganj.
9	0	0	0	0	0	14	8	0	S 61° W	S 88° W	1·5	1·1	+0·4	66	+47	83	−8	·371	−·008	1·3	+0·5	0	−0·2	0	0·14	−0·14	0	0·38	−0·38	0	Purnea.
5	0	0	1	0	0	24	1	0	S 45° W		2·4			74		64		·304		0·3		0	−0·3	0	0·46	−0·46	0	1·97	−1·97	0	Monghyr.
30	0	0	0	0	0	1	0	0	S 45° W	N 85° W	0·8	1·5	−0·7	3	−27	80	−7	·375	−·029	0·3	−0·5	0	−0·2	0	0·09	−0·09	0	0·33	−0·33	0	Darbhanga.
18	0	0	0	1	4	6	2	0	S 29° W		1·1			32		85		·363		0·3		0	−0·3	0	0·13	−0·13	0	0·67	−0·67	0	Pusa.
14	0	0	1	0	2	4	10	0	S 68° W	S 78° W	1·5	1·4	+0·1	43	−11	54	−21	·283	−·088	0·3	−0·8	0	−0·3	0	0·10	−0·10	0	0·42	−0·42	0	Patna.
4	0	0	1	1	1	13	11	0	S 60° W		2·1			68		64	−7	·291	+·057	0·6	−0·8	0	−0·5	0	0·21	−0·21	0	0·65	−0·65	0	Buxar.
6	1	0	1	0	1	7	10	5	S 85° W	S 10° W	1·0	1·8	−0·8	56	+24	49	−23	·274	−·069	0·2	−1·4	0	−0·2	0	0·15	−0·15	0	0·66	−0·66	0	Gaya.
31	0	0	0	0	0	0	0	0	Calm		0·6					59	−14	·303	−·062	0·1	−1·0	0	−0·3	0	0·12	−0·12	0	0·57	−0·57	0	Naya Dumka.
																															V.—United Provinces of Agra and Oudh.
13	0	0	1	0	0	0	17	0	W	N 69° W	0·9	0·8	+0·1	52	+20	78	−3	·345	−·023	0·1	−1·0	0	−0·4	0	0·15	−0·15	0	0·34	−0·34	0	Gorakhpur.
10	0	1	1	0	1	16	1	1	S 46° W	S 56° W	1·4	1·7	−0·3	49	+20	67	−14	·295	−·058	0·1	−1·1	0	−0·5	0	0·23	−0·23	0	0·57	−0·57	0	Benares.
11	0	0	0	0	0	2	17	1	N 88° W	N 76° W	1·8	2·7	−0·9	62	+33	56	−21	·244	−·096	0·9	−0·6	0	−0·5	0	0·25	−0·25	0	0·61	−0·61	0	Allahabad.
5	2	0	0	1	2	5	11	5	S 88° W	N 82° W	1·8	1·8	0	56	+27	61	−24	·236	−·078	0·1	−1·1	0	−0·6	0	0·19	−0·19	0	0·58	−0·58	0	Cawnpore.

† Mean of 23 days.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	29·666	−·059	30·022	29·779	29th	29·520	1st	52·0	45·9	78·8	+3·1	45·8	−0·5	62·3	+1·3	33·0	86·5	1st	39·0	23rd
	Bahraich	407	29·610	−·058	30·007	29·747	29th	29·467	1st	51·1	47·8	76·9	+1·7	47·1	−0·6	62·0	+0·5	29·8	82·6	1st	41·2	28th
10	Jhansi	824	29·232	−·047	30·061	29·336	29th	29·104	24th	57·5	49·5	81·2	+2·9	47·0	−5·4	64·1	−1·3	34·2	88·4	1st & 2nd	42·1	28th
	Agra	556	29·509	−·033	30·055	29·633	29th	29·384	24th	60·1	49·1	78·4	+2·9	48·7	−0·4	63·5	+1·3	29·7	85·6	1st	43·1	28th
	Mainpuri	516	29·520	−·051	30·033	29·644	29th	29·39[illegible]	1st	51·9	44·3	78·3	+3·4	45·8	−1·3	62·0	+1·1	32·5	88·4	10th	39·1	23rd
	Bareilly	568	29·448	−·053	30·020	29·595	29th	29·301	1st	51·2	46·9	75·4	+2·7	46·1	+0·1	60·7	+1·4	29·3	83·6	1st	41·2	23rd
	Roorkee	899	29·102	−·053	30·042	29·243	29th	28·982	1st	45·8	42·8	73·2	+1·3	41·5	−1·8	57·4	−0·3	31·7	78·4	2nd	37·7	28th
	VI.—Punjab.																					
11	Delhi	718	29·308	−·051	30·040	29·394	17th	29·179	24th	52·7	44·4	74·0	+0·7	49·2	+0·2	61·6	+0·5	24·3	81·6	1st	43·3	27th
	Hissar	725	29·328	−·033	30·078	29·418	27th	29·124	24th	46·8	40·1	76·8	+2·6	41·3	−1·7	59·1	+0·5	35·5	85·8	1st	35·1	27th
	Patiala	*818*	29·169	−·080?	30·015	29·284	29th	29·030	24th	49·8	43·5	74·8	+3·6	45·2	+1·0	60·0	+2·3	29·6	83·8	1st	39·0	16th & 23rd.
	Ambala	892	29·109	−·055	30·039	29·230	29th	28·985	24th	48·9	42·4	76·2	+4·1	44·0	+0·5	60·1	+2·3	32·2	84·6	1st	38·4	16th
	Ludhiana	812	29·202	−·051	30·047	29·310	17th	29·027	24th	48·5	42·7	75·1	+4·7	43·3	−2·1	59·2	+1·8	31·8	84·1	1st	38·4	22rd & 28th.
	Lahore	702	29·313	−·061	30·050	29·415	29th	29·094	24th	44·0	40·5	73·3	+0·5	40·9	0	57·1	+0·3	32·4	80·8	1st	36·3	11th
	Sialkot	830	29·186	−·053	30·057	29·301	29th	28·988	24th	47·3	43·6	71·0	+1·4	39·1	−3·6	55·1	−1·1	31·9	80·2	1st	33·5	11th
	Rawalpindi	1,674	28·341	−·043	30·101	28·444	17th	28·150	24th	47·1	40·7	69·3	+2·2	37·0	−0·4	53·2	+0·9	32·3	76·2	14th	27·0	21st
12	Khushab	612	29·446	−·042	30·082	29·577	5th	29·182	24th	48·1	39·7	74·4	+2·3	36·7	−5·4	55·6	−1·5	37·7	81·2	16th	31·2	12th
	Lyallpur	605	29·424		30·052	29·529	5th	29·135	24th	45·0	40·7	73·4		39·4		56·4		34·0	80·0	2nd	33·8	12th
	Montgomery	558	29·481	−·059	30·054	29·592	27th	29·183	24th	48·3	41·9	73·3	+0·8	42·5	−0·1	57·9	+0·3	30·8	79·0	2nd & 3rd	35·2	12th
	Multan	426	29·633	−·054	30·057	29·749	5th	29·432	24th	50·7	44·2	74·1	+0·6	45·6	+0·6	58·8	+0·6	28·5	81·7	16th	41·4	21st
	VII.—North-West Frontier Province.																					
14	Peshawar	1,113	28·918	−·070	30·112	29·037	12th	28·760	24th	42·2	38·7	69·0	+2·0	38·1	−1·1	53·5	+0·5	30·9	74·6	13th	34·1	9th
	D. I. Khan	590	29·481	−·048	30·091	29·582	12th	29·190	24th	48·1	42·1	72·1	−0·2	40·8	+0·3	56·4	+0·1	31·3	79·6	15th	34·3	12th
	VIII.—Sind.																					
16	Jacobabad	186	29·901	−·037	30·061	30·044	5th	29·671	24th	50·4	40·8	71·2	−5·5	42·0	−2·3	56·6	−3·9	29·2	78·3	1st	35·4	5th
	Hyderabad	96	29·987	−·033	30·041	30·106	5th	29·866	23rd	54·3	46·3	77·2	−1·8	48·2	−4·1	62·7	−2·9	29·0	84·5	20th	39·5	25th
	Karachi	13	30·083	−·027	30·047	30·181	5th	29·958	23rd	61·3	53·1	77·6	−0·6	57·2	−2·4	67·4	−1·5	20·4	83·6	14th	51·2	25th
	IX.—Rajputana.																					
17	Bikaner	*771*	29·291	−·026	30·081	29·390	5th	29·092	24th	52·9	43·8	77·8	+2·7	45·7	−4·7	61·8	−1·0	32·1	85·4	1st	37·9	22nd
	Jodhpur	780	29·275	−·024	30·061	29·373	27th	29·117	24th	56·5	44·4	81·1	+1·4	50·1	−2·6	65·6	−0·6	31·0	87·4	13th	39·2	25th
	Jaipur	1,431	28·615	−·030	30·090	28·701	29th	28·441	24th	53·8	44·4	79·7	+2·4	45·8	−3·3	62·8	−0·5	33·9	85·5	1st	38·5	28th
18	Ajmer	1,611	28·418	−·049	30·104	28·494	14th	28·259	24th	44·8	39·7	77·3	+1·1	42·0	−3·5	60·2	−1·2	34·3	82·4	13th	37·8	25th
	Kotah	832	29·205	−·048	30·037	29·304	29th	29·050	24th	59·8	49·1	82·0	+2·8	51·9	−1·4	67·0	+0·7	30·1	87·6	2nd	46·4	27th

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

B—*continued.*

stations in India, etc., in December, 1920—*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 Nov. to 31st Dec. 1920.	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 and Oudh—*concld.*
24	0	0	0	0	0	5	2	0	S 57° W	N 76° W	0·5	1·2	−0·7	20	− 9	60	−19	·232	−·089	0·2	−1·2	0	−0·7	0	0·31	−0·31	0	0·52	−0·52	0	Lucknow.
22	1	0	1	0	0	0	8	1	N 73° W	N 51° W	1·2	1·1	+0·1	23	− 1	77	− 5	·291	−·054	0·5	−0·6	0	−0·7	0	0·30	−0·30	0	0·63	−0·63	0	Bahraich.
8	0	0	0	0	1	14	7	1	S 60° W	N 79° W	2·0	1·5	+0·5	66	+48	53	− 6?	·251	−·055	0·2	−0·9	0	−0·7	0	0·25	−0·25	0	0·39	−0·39	0	Jhansi.
14	0	1	1	0	1	9	4	1	S 57° W	N 61° W	1·8	2·1	−0·3	37	+ 1	39	−28	·203	−·075	0·7	−0·7	0	−0·8	0	0·29	−0·29	0	0·42	−0·42	0	Agra.
8	2	1	0	1	0	0	10	9	N 61° W	N 66° W	1·3	0·8	+0·5	56	+32	51	−22	·195	−·093	0·7	−1·2	0	−0·9	0	0·38	−0·38	0	0·59	−0·59	0	Mainpuri.
25	0	0	0	0	0	0	4	2	N 75° W	N 44° W	0·6	1·2	−0·6	17	+ 3	71	−10	·267	−·040	0·8	−0·7	0	−0·8	0	0·33	−0·33	0	0·59	−0·59	0	Bareilly.
20	0	1	0	0	0	0	0	10	N 89° W	N 39° W	1·9	1·0	+0·9	83	+26	77	− 7	·236	−·041	1·0	−1·1	0	−1·2	0·02	0·57	−0·55	0·02	0·85	−0·83	0·02	Roorkee.
																															VI.—Punjab.
4	1	0	0	1	0	0	16	9	N 73° W	N 87° W	2·7	1·8	+0·9	76	+32	47	−16	·186	−·067	0·4	−1·8	0	−1·0	0	0·43	−0·43	0	0·56	−0·56	0	Delhi.
4	1	0	2	1	5	10	7	1	S 47° W	N 84° W	3·7	2·0	+1·7	53	+46	51	−20	·163	−·081	1·1	−1·3	0	−0·8	0·08	0·30	−0·22	0·08	0·33	−0·25	0·08	Hissar.
3	0	1	3	2	1	9	5	16	N 48° W		3·9			48		57	−21	·203	−·071	1·3	−1·1	0	−1·1	0	0·34	−0·34	0	0·53	−0·53	0	Patiala.
8	9	1	3	0	1	0	1	8	N 12° W	N 44° W	3·6	1·1	+2·5	46	+26	55	−27	·185	−·066	1·8	−0·6	0	−1·4	0	0·59	−0·59	0	0·88	−0·88	0	Ambala.
26	0	0	0	1	1	0	1	2	S 79° W	N 47° W	0·7	0·9	−0·2	5	−12	59	−16	·199	−·0·9	1·0	−1·9	0	−1·3	0·03	0·69	−0·66	0·03	0·82	−0·79	0·03	Ludhiana.
24	0	0	1	2	0	0	1	3	N 45° W	N 58° W	0·9	0·9	0	3	− 4	73	− 9	·209	−·046	2·6	0	0	−1·0	0	0·38	−0·38	0	0·46	−0·46	0	Lahore.
15	3	4	4	0	0	0	2	3	N 19° E	N 63° E	1·3	0·7	+0·6	27	+20	73	− 2	·237	−·015	2·0	−0·4	1	−0·1	0·20	0·65	−0·45	0·20	0·77	−0·57	0·12	Sialkot.
22	0	0	0	1	1	3	2	1	S 59° W	N 41° W	2·0	0·9	+1·1	20	+ 6	55	−19	·176	−·031	1·7	−1·9	1	−0·8	0·11	1·00	−0·89	0·11	1·29	−1·18	0·10	Rawalpindi.
20	0	4	3	1	0	2	1	0	N 80° E	N 27° E	1·9	1·5	+0·4	13	− 1	40	−20	·136	−·062	2·7	+0·2	1	+0·4	0·12	0·41	−0·29	0·12	0·51	−0·39	0·12	Khushab.
16	0	1	2	2	2	3	3	2	S 36° W		1·4			13		67		·209		2·9		0	−0·4	0·05	0·19	−0·14	0·05	0·28	−0·23	0·05	Lyallpur.
18	0	0	1	3	1	1	2	5	S 84° W	N 68° E	1·7	1·9	−0·2	10	− 8	54	−10	·184	−·043	1·8	−0·7	0	−1·0	0·07	0·33	−0·26	0·07	0·40	−0·33	0·07	Montgomery.
20	9	2	0	0	0	0	0	0	N 8° E	N 53° E	0·9	0·8	+0·1	33	+15	55	−14	·203	−·055	1·4	−0·7	0	−0·6	0·02	0·22	−0·20	0·02	0·30	−0·28	0·02	Multan.
																															VII.—North-West Frontier Province.
24	1	0	1	0	4	1	0	0	S 5° E	S 16° W	0·2	1·7	−1·5	12	−17	72	+ 2	·191	−·014	2·4	−1·3	0	−1·1	0·06	0·50	−0·44	0·06	0·81	−0·75	0·06	Peshawar.
19	0	0	0	0	0	0	0	12	N 45° W	N 32° W	1·1	0·6	+0·5	37	+26	58	−14	·191	−·031	2·7	+0·1	0	−0·6	0	0·20	−0·20	0	0·38	−0·38	0	D. I. Khan.
																															VIII.—Sind.
24	0	1	0	1	0	0	0	5	N 32° W	N 7° E	1·6	1·2	+0·4	13	− 1	36	−20	·131	−·118	0·8	−1·8	0	−0·4	0	0·14	−0·14	0	0·22	−0·22	0	Jacobabad.
10	13	1	0	2	1	2	0	2	N 4° W	N 2° E	2·7	5·1	−2·4	37	−19	48	− 7	·206	−·065	0·1	−1·9	0	−0·2	0	0·06	−0·06	0	0·13	−0·13	0	Hyderabad.
1	7	17	4	0	0	0	0	2	N 36° E	N 54° E	5·4	6·1	−0·7	82	0	54	− 4	·300	−·041	2·3	+0·4	1	+0·6	0·23	0·13	+0·10	0·23	0·18	+0·05	0·23	Karachi.
																															IX.—Rajputana.
8	0	0	3	10	7	2	1	0	S 26° E	N 4° W	2·4	2·4	0	56	+34	42	−12	·168	−·058	1·1	−1·3	0	−0·4	0	0·20	−0·20	0	0·25	−0·25	0	Bikaner.
12	0	15	2	0	0	1	0	0	N 50° E.		1·8			53		30	−14	·134	−·079	1·9	−0·3	0	−0·5	0	0·13	−0·13	0	0·25	−0·25	0	Jodhpur.
13	1	2	4	0	0	2	2	7	N 27° W	N 2° W	2·1	2·1	0	23	+ 1	42	−16	·176	−·079	0·9	−1·1	0	−0·6	0	0·22	−0·22	0	0·37	−0·37	0	Jaipur
30	0	0	0	0	0	1	0	0	S 45° W	N 24° E	0·7	1·2	−0·5	3	− 1	61	−11	·184	−·086	0·1	−1·9	0	−0·5	0	0·31	−0·31	0	0·49	−0·49	0	Ajmer.
22	0	0	0	3	0	2	2	2	S 52° W		0·3			10		41	−17	·212	−·077	0·6	−0·7	0	−0·7	0	0·28	−0·28	0	0·36	−0·36	0	Kotah.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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 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	29·591	—·017	30·036	29·665	27th	29·484	24th	59·6	46·4	88·1	+2·4	49·6*	—3·0*	68·8*	—0·3	38·5	95·4	14th	37·6	25th
	Bhuj	334	29·724	—·023	30·026	29·803	5th	29·630	24th	62·1	53·4	82·8	+0·8	48·0	—8·0	65·3	—3·6	34·8	88·3	14th *	42·1	26th
	Jamnagar	61								63·6	55·5	81·0	—1·0	52·5	—2·8	66·7	—1·9	28·5	85·7	13th	46·7	22nd
	Dwarka	37	30·038	—·017	30·021	30·108	29th	29·970	24th	67·5	60·8	81·2	+0·3						89·7	14th		
	Rajkot	429	29·669	—·030	30·008	29·666	29th	29·528	22nd	61·6	50·5	86·2	+1·0	52·5	—0·4	69·3	+0·3	33·7	93·8	13th	45·9	25th
	Veraval	*18*	30·095	—·017	29·986	30·078	20th	29·961	11th	67·1	55·8	83·9	—0·3	61·6	—0·6	72·7	—0·5	22·3	93·1	15th	55·6	26th
	Bhavnagar Para	55	30·011	—·010	30·014	30·072	29th	29·920	23rd	61·7	49·5	86·8	+1·4	53·3	—3·0	70·1	—0·8	33·5	92·2	12th	43·8	26th
	Surat	39	30·008	—·017	29·991	30·057	30th	29·912	23rd	64·4	54·8	89·0	+1·3	58·2	—0·1	73·6	+0·6	30·8	94·3	13th	52·3	26th
	Ahmadabad	163	29·912	—·005	30·030	29·987	14th	29·820	23rd	68·2	54·8	88·1	+1·7	58·8	—0·7	73·5	+0·5	29·3	93·6	12th & 13th.	51·1	26th
25	Bombay	37	29·977	—·030	29·955	30·029	30th	29·814	23rd	71·7	65·9	85·5	+0·8	69·7	—0·3	77·6	+0·3	15·8	90·0	18th	65·1	26th
	Ratnagiri	207	29·779	—·033	29·832	29·825	30th	29·717	22nd	75·6	62·5	89·9	+0·6	67·1	—0·2	78·5	+0·2	22·8	96·3	16th & 17th.	63·7	10th
	Marmagao	*60*	29·945	—·018	29·941	29·999	30th	29·899	22nd	71·2	67·2	83·3	—2·5	69·2	—1·3	76·2	—1·9	14·1	85·8	15th	66·2	16th
	Karwar	44	29·964	—·007	29·943	30·016	20th	29·923	22nd & 24th.	66·7	64·1	86·0	+0·4	64·1	—2·3	76·0	—0·9	23·9	92·5	15th	61·0	16th
26	Malegaon	1,430	28·592	—·033	30·027	28·666	29th	28·506	24th	61·4	46·3	89·4	+4·7	50·0	—1·8	69·7	+1·5	39·4	93·2	2nd	45·3	15th
	Ahmadnagar	2,154	27·881	—·024	30·002	27·994	25th	27·805	24th	66·2	51·9	88·2	+5·0	52·2	0	70·2	+2·5	36·0	91·6	3rd	45·2	11th
	Poona	1,846	28·191	—·011	30·045	28·266	30th	28·124	22nd	59·7	51·7	88·2	+3·6	50·1	—3·7	69·2	—0·1	38·1	91·0	3rd	44·9	11th
	Sholapur	1,590	28·4.9	—·028	29·992	28·480	30th	28·370	24th	68·4	55·6	89·6	+4·1	57·9	—0·1	73·8	+2·0	31·7	92·6	3rd	52·9	16th
	Bijapur	*1,948*	28·068	—·033	29·968	28·109	30th	27·998	24th	68·9	9·3	87·3	+2·7	57·1	—0·2	72·2	+1·3	30·2	90·2	3rd	50·3	16th
	Belgaum	2,562	27·465	—·015	29·980	27·515	20th	27·416	24th	65·9	56·7	85·6	+3·9	56·7	—1·6	71·1	+1·1	28·9	88·5	3rd	52·8	8th
	XI.—Central India.																					
20	Neemuch	1,626	28·415	—·034	30·047	28·495	29th	28·267	24th	62·0	49·6	81·3	+2·8	46·4	—2·8	63·9	0	34·9	86·9	12th	37·8	26th
	Indore	1,823	28·212	—·024	30·034	28·282	14th	28·091	24th	64·5	52·4	84·2	+4·5	49·2	—0·4	66·7	+2·1	35·0	88·1	1st & 11th	45·1	7th, 17th & 27th.
21	Nowgong	754	29·290	—·047	30·055	29·394	29th	29·171	24th	50·7	44·3	77·9	+2·7	43·3	—3·4	60·6	—0·3	34·6	86·0	1st	38·9	29th
	Sutna	1,041	28·996	—·036	30·052	29·090	29th	28·898	4th	55·2	48·0	77·9	+2·6	46·3	—1·0	62·1	+0·8	31·6	84·3	1st & 4th	41·8	4 days.
	XII.—Central Provinces.																					
22	Buldana	2,134								69·2	52·9	85·5	+5·9	60·5	+2·7	73·0	+4·3	25·0	90·0	3rd	56·2	28th
	Akola	925	29·124	—·022	30·041	29·229	29th	29·041	24th	61·7	48·6	91·2	+7·3	50·6	—1·3	70·9	+3·0	40·6	94·8	3rd	46·3	18th
	Amraoti	1,215	28·815	—·036	30·010	28·891	29th	28·751	24th	68·8	51·9	88·7	+5·8	60·3	+3·1	74·5	+4·5?	28·4	92·1	5th	54·3	24th
23	Khandwa	1,044	28·990	—·033	30·033	29·073	29th	28·889	24th	60·9	50·4	88·4	+4·9	48·7	—2·1	68·6	+1·4	39·7	92·6	3rd	42·7	17th
	Hoshangabad	1,006	29·051	—·029	30·066	29·134	29th	28·958	24th	55·9	48·1	83·7	+4·3	48·8	—2·9	66·3	+0·7	34·9	87·7	1st & 3rd	43·8	7th
	Saugor	1,807	28·179	—·082?	30·004?	28·255	17th	28·082	24th	58·7	46·1	82·3	+5·5	54·2	+1·7	68·3	+2·6?	28·1	87·2	4th	48·8	28th
	Jubbulpore	1,327	28·689	—·050	30·048	28·774	29th	28·605	4th	52·1	45·5	79·8	+2·7	44·5	—1·9	62·1	+0·4	35·3	85·3	4th	38·9	16th
	Seoni	2,033	27·997	—·028	30·043	28·050	6th	27·930	24th	59·8	48·2	81·3	+3·4	50·4	+0·3	65·8	+1·9	30·9	87·6	5th	42·7	28th
	Nagpur	1,017	29·028	—·025	30·035	29·104	29th	28·946	3rd	63·6	50·5	86·6	+5·0	51·4	—3·0	69·0	+1·0	35·2	91·4	4th	45·9	17th
24	Pendra	2,040	27·987	—·023	30·039	28·075	29th	27·901	4th	60·0	48·2	78·2	+3·0	49·0	—0·9	63·6	+1·1	29·2	83·7	5th	44·0	29th

N.B.—Elevations in italics indicate barometrical determinations. * Mean of 30 days.

B—*continued.*

stations in India, etc., in December, 1920—*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 Nov. to 31st Dec. 1920.	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	16	11	1	0	0	0	0	N 63° E	N 72° E	5·6	5·8	−0·2	82	+10	38	− 8	·195	−·051	0·5	−0·8	0	−0·1	0	0·05	− 0·05	0	0·16	− 0·16	0	Dessa.
25	0	2	0	0	0	1	3	0	N 73° W	N 15° W	2·2	4·2	−2·0	7	0	33	− 4	·298	−·051	0·9	−0·5	0	−0·1	0	0·04	− 0·04	0	0·13	− 0·13	0	Bhuj.
3	0	12	10	2	0	0	0	4	N 60° E		4·4			64		57	+[illegible]	·338	+·018	0·7	0	0	−0·2	0	0·05	− 0·05	0	0·06	− 0·06	0	Jamnagar.
0	17	6	6	0	0	0	0	2	N 21° E		7·6			82		66	− 1	·449	−·024	1·0	−0·4	0	−0·3	0	0·05	− 0·05	0	0·06	− 0·06	0	Dwarka.
11	3	7	6	2	0	0	0	2	N 54° E	N 69° E	3·5	3·4	+0·1	46	− 4	41	− 8	·225	−·068	0·6	−0·4	0	−0·1	0	0·04	− 0·04	0	0·25	− 0·25	0	Rajkot.
2	17	9	1	0	0	0	0	2	N 13° E	N 27° E	5·7	4·2	+1·5	86	+11	45	− 6	·300	−·053	0·4	−1·2	0	−0·2	0	0·09	− 0·09	0	0·32	− 0·32	0	Veraval.
3	1	0	0	0	1	1	7	18	N 60° W	N 77° W	2·2	4·6	−2·4	76	+18	35	−19	·199	−·120	0·7	−0·9	0	−0·2	0	0·08	− 0·08	0	0·24	− 0·24	0	Bhavnagar Para.
15	4	8	3	1	0	0	0	0	N 46° E	N 48° E	1·2	3·2	−2·0	43	−15	30	−11	·306	−·091	0·4	−0·9	0	−0·1	0	0·04	− 0·04	0	0·26	− 0·26	0	Surat.
4	2	12	10	0	0	0	0	2	N 53° E	N 62° E	3·3	3·4	−0·1	66	− 8	37	−10	·254	−·041	0·3	−1·1	0	0	0	0·03	− 0·03	0	0·16	− 0·16	0	Ahmadabad.
0	0	13	17	1	0	0	0	0	N 72° E	N 70° E	5·8	7·1	−1·3	92	+ 6	73	+ 1	·562	−·023	0·5	−1·2	0	−0·2	0	0·06	− 0·06	0	0·50	− 0·50	0	Bombay.
4	1	5	9	11	1	0	0	0	N 78° E	S 74° E	6·0	5·8	+0·2	66	+ 1	45	−10	·388	−·036	0	−1·3	0	−0·3	0	0·09	− 0·09	0	0·82	− 0·82	0	Ratnagiri.
0	2	5	23	1	0	0	0	0	N 80° E	S 77° E	5·6	5·8	−0·2	89	+ 9	80	+ 4	·620	−·002	0·8	−0·7	0	−0·4	0	0·19	− 0·19	0·15	1·18	−1·03	0	Marmagao.
13	9	7	0	0	0	0	0	2	N 13° E	N 67° E	1·7	2·2	−0·5	49	−31	88	+12	·573	+·020	0·8	−0·4	0	−0·4	0	0·24	− 0·24	0	1·97	− 1·97	0	Karwar.
14	0	0	0	0	0	7	9	1	S 74° W	N 69° W	2·4	3·1	−0·7	53	− 8	8	−15	·210	−·097	0·5	−1·3	0	−0·4	0	0·21	− 0·21	0	0·81	− 0·81	0	Malegaon.
10	1	1	2	1	1	0	6	9	N 54° W	N 81° E	3·7	3·9	−0·2	37	+32	33	−25	·211	−·140	0	−1·5	0	−0·6	0	0·48	− 0·48	0	1·10	− 1·10	0	Ahmadnagar.
23	0	0	0	0	0	1	4	3	N 78° W	N 88° E	2·8	4·4	−1·6	23	+ 1	56	− 2	·289	−·011	0·6	−1·1	0	−0·5	0	0·17	− 0·17	0	1·05	− 1·05	0	Poona.
8	1	5	6	8	0	2	0	1	S 82° E	S 74° E	5·3	5·8	−0·5	43	−25	33	−16	·227	−·116	0·1	−2·0	0	−0·6	0	0·50	− 0·50	0·03	1·37	− 1·34	0	Sholapur.
16	0	0	2	4	7	1	0	1	S 24° E	S 67° E	0·6	2·8	−2·2	33	−36	55	−12	·395	−·053	0·1	−2·1	0	−0·5	0	0·26	− 0·26	0	1·11	− 1·11	0	Bijapur.
25	0	1	5	0	0	0	0	0	N 83° E	S 81° E	2·5	8·8	−6·3	20	−56	55	− 3	·346	−·046	0·3	−1·7	0	−0·6	0	0·41	− 0·41	0·07	1·81	− 1·74	0	Belgaum.
																															XI.—Central India.
25	0	0	4	0	0	0	2	0	E	N 58° E	1·1	4·2	−3·1	6	−59	34	−21	·191	−·072	0·3	−1·2	0	−0·5	0	0·19	− 0·19	0	0·36	− 0·36	0	Neemuch.
20	1	3	5	0	1	0	0	1	N 66° E	N 68° E	0·8	1·3	−0·5	23	+ 5	40	−19	·246	−·068	0·9	−0·7	0	−0·6	0	0·24	− 0·24	0	0·66	− 0·66	0	Indore.
14	1	2	1	1	2	4	1	5	N 84° W	N 76° W	0·9	0·8	+0·1	14	0	56	−18	·210	−·099	0·9	−0·8	0	−0·7	0	0·46	− 0·46	0	0·83	− 0·83	0	Nowgong.
30	0	0	0	0	0	1	0	0	S 45° W	N 24° W	0·5	2·5	−2·0	3	−41	57	−11	·248	−·044	0·5	−1·2	0	−0·8	0	0·38	− 0·38	0	0·73	− 0·73	0	Sutna.
																															XII.—Central Provinces.
0	1	1	9	7	3	3	4	3	S 45° E		3·6	4·0	−0·4	26		29		·203		1·3		0	−1·0	0	0·61	− 0·61	0	1·20	− 1·20	0	Buldana.
17	1	3	4	2	1	1	1	1	N 82° E	S 85° E	2·2	2·3	−0·1	17	−27	31	−26	·171	−·150	0·8	−1·2	0	−1·1	0	0·68	− 0·68	0	1·12	− 1·12	0	Akola.
2	0	15	12	1	0	1	0	0	N 68° E	N 72° E	3·5	2·9	+0·6	79	+ 7	23	−29	·165	−·167	0·8	−1·0	0	−0·8	0	0·55	− 0·55	0	1·09	− 1·09	0	Amraoti.
12	1	6	5	0	4	1	2	0	N 86° E	N 63° E	2·5	2·0	+0·5	23	− 9	43	−14	·229	−·069	1·2	−0·3	0	−0·4	0	0·31	− 0·31	0	0·81	− 0·81	0	Khandwa.
11	0	20	0	0	0	0	0	0	N 45° E	N 63° E	1·0	1·9	−0·9	66	+ 1	53	−14	·336	+·015?	0·7	−0·9	0	−0·7	0	0·47	− 0·47	0	1·04	− 1·04	0	Hoshangabad.
16	1	3	2	3	2	1	1	2	S 84° E	S 77° E	2·3	2·0	+0·3	10	−22	32	−22	·159	−·117	0·7	−0·7	0	−0·6	0	0·48	− 0·48	0	0·97	− 0·97	0	Saugor.
8	0	1	1	17	3	0	0	1	S 44° E	S 41° E	0·9	1·2	−0·3	59	+23	57	−18	·223	−·098	0·2	−1·2	0	−0·6	0	0·29	− 0·29	0	0·82	− 0·82	0	Jubbulpore.
19	5	5	0	0	0	1	0	1	N 14° E	N 30° E	2·4	1·6	+0·8	30	−12	38	−26	·198	−·129	0·5	−1·2	0	−0·9	0	0·55	− 0·55	0	1·12	− 1·12	0	Seoni.
6	14	8	2	0	0	0	0	1	N 18° E	N 7° E	2·1	2·2	−0·1	69	+40	35	−25	·196	−·149	0·2	−1·9	0	−1·0	0	0·58	− 0·58	0	1·28	− 1·28	0	Nagpur.
29	0	1	0	0	1	0	0	0	S 67° E		3·5			2		37	−2	·188	−·106	3·6	+2·4?	0	−0·6	0	0·35	− 0·35	0	0·76	− 0·76	0	Pendra.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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
	XII.—Central Provinces—*concld.*																					
	Raipur	970	29·050	−·051	30·014	29·142	29th	28·973	4th	60·1	50·9	83·1	+3·7	52·9	−1·2	68·0	+1·3	30·2	87·9	5th	48·6	17th
	Chanda	*634*	29·413	−·035	30·024	29·476	30th	29·332	3rd	61·9	52·9	87·5	+4·9	49·2	−2·9	68·4	+1·0	38·3	91·3	5th	43·4	17th
	Jagdalpur	1,813	28·205		30·043	28·279	19th	28·107	1st	55·1	50·3	83·3		45·6		64·5		37·7	86·7	5th	41·6	9th
	XIII.—Hyderabad.																					
27	Aurangabad	1,905	28·131	−·040	30·015	28·193	29th	28·061	24th	66·5	49·6	88·5	+4·7	57·0	+2·5P	72·7	+3·6	31·5	91·9	3rd	51·6	9th
	Nizamabad	1,248	28·768	P	30·001	28·828	29th	28·716	24th	65·1	53·4	89·0	+6·0	51·7	−2·0	70·3	+2·0	37·3	95·0	5th	45·3	14th
28	Gulbarga	1,503	28·513	−·036	29·995	28·569	29th	28·458	24th	66·5	55·5	90·1	+4·8	57·2	−1·3	73·7	+1·7	32·9	93·8	5th	50·8	15th
	Raichur	*1,311*	28·705	−·014	29·984	28·764	30th	28·654	24th	70·0	60·8	88·4	+3·7	62·7	−0·8	75·5	+1·5	25·7	91·8	6th	56·1	15th
	Hyderabad (Deccan)	1,719	28·316	−·015	30·012	28·373	18th & 29th.	28·266	26th	66·5	58·1	85·6	+2·8	56·5	−1·5	71·1	+0·7	29·1	90·4	5th	51·0	7th
	Hanamkonda	877	29·158	−·020	30·001	29·216	26th & 29th.	29·093	24th	70·3	60·9	87·5	+4·1	60·5	−0·2	74·0	+1·9	27·0	92·5	5th	51·5	13th
	XIV.—Mysore.																					
29	Chitaldrug	2,405	27·601	−·019	29·935	27·665	29th	27·561	1st	70·3	58·9	85·8	+3·9	60·7	−0·3	73·2	+1·8	25·1	89·7	6th	57·8	8th
	Hassan	3,149	26·903	−·001	29·857	26·956	30th	26·862	22nd	66·4	62·8	82·3	+2·6	53·2	−2·7	67·8	−0·1	29·1	87·2	27th	48·3	4th
	Bangalore	3,021	27.026	−·011	29·978	27·078	30th	26·984	22nd	63·8	58·6	81·9	+3·4	55·1	−3·4	68·5	0	26·8	85·0	20th	50·1	4th
	Mysore	2,518	27·501	−·013	29·856	27·546	30th	27·450	22nd	67·8	60·9	82·8	+0·9	57·9	−2·3	70·3	−0·7	24·9	86·2	20th	53·2	4th
	XV.—Madras.																					
30	Mangalore	72	29·924	−·011	29·928	29·977	6th	29·879	22nd	75·9	67·9	88·8	−0·2	68·9	−1·3	78·9	−0·7	19·9	93·7	17th	64·7	13th
	Calicut	27	29·962	−·003	29·918	30·026	6th	29·919	24th	75·1	70·9	86·0	−1·2	70·2	−0·5	78·1	−0·9	15·8	87·9	2nd	66·9	6th
	Cochin	9	29·974	−·005	29·911	30·041	6th	29·925	22nd	76·7	70·6	89·0	+0·3	72·0	−0·8	80·5	−0·3	17·0	94·9	17th	64·4	5th
	Trivandrum	198	29·777	+·002	29·907	29·837	6th	29·730	22nd	75·0	72·1	83·8	+0·7	72·2	−0·9	78·0	−0·1	11·6	85·6	25th	68·0	6th
31	Pamban	37	29·952	−·016	29·917	30·003	6th	29·905	8th	76·6	74·1	83·4	+1·2	74·6	−0·5	78·7	+0·3	9·4	84·5	27th & 31st.	72·7	1st
	Madura	447	29·563	−·006	29·950	29·646	29th	29·518	8th	74·7	69·4	85·5	−0·6	68·7	−1·5	77·1	−1·1	16·8	89·0	15th	61·8	3rd & 5th.
	Pudukkottai	318	29·704	+·004	29·960	29·746	29th	29·659	24th	73·8	68·1	84·1	−1·7	68·1	−0·8	76·1	−1·3	16·0	87·3	25th	63·9	21st
	Negapatam	21	29·978	−·002	29·938	30·032	29th	29·937	24th	73·8	69·8	81·5	−0·6	70·2	−1·8	75·9	−1·2	11·2	83·8	13th	66·7	3rd
	Trichinopoly	255	29·762	−·009	29·955	29·819	29th	29·716	24th	74·2	69·3	86·0	+0·6	66·9	−2·4	76·4	−0·9	19·1	88·1	31st	61·7	4th
	Coimbatore	1,341	28·682	+·009	29·976	28·739	29th	28·636	22nd	72·0	68·1	85·9	+0·9	63·6	−2·2	74·7	−0·7	22·3	89·7	17th	55·9	5th
	Salem	913	29·105	+·001	29·973	29·161	6th	29·051	22nd	70·9	66·3	86·6	+0·2	62·8	−2·8	74·8	−1·3	24·0	89·6	17th	55·8	2nd
	Cuddalore	37	29·989	−·004	29·957	30·045	20th	29·842	24th	73·1	69·3	81·9	−1·3	68·6	−1·1	75·2	−1·2	13·3	83·2	26th	63·5	4th
	Vellore	707	29·323	−·003	29·930	29·380	20th	29·281	1st	67·5	64·6	83·8	+2·1	61·2	−3·3	72·5	−0·6	22·6	86·0	17th	56·0	4th
	Madras	22	30·009	−·013	29·961	30·063	29th	29·969	24th	74·1	69·8	84·6	+1·3	68·3	−1·4	76·4	−0·1	16·3	86·5	30th	62·6	4th
32	Cuddapah	428	29·606	−·018	29·984	29·679	29th	29·542	2nd	70·8	65·5	86·9	+0·2	62·7	−2·6	74·8	−1·2	24·2	89·0	5th & 7th	57·1	4th

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

B—*continued.*

stations in India, etc., in December, 1920—*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 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 Novr. to 31st Dec. 1920.	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.*
25	1	1	2	[illegible]	0	0	0	0	N 83° E	N 14° E	0·7	1·8	−1·1	9	− 7	48	−17	·250	−·102	0·6	−1·3	0	−0·4	0	0·26	−0·26	0	0·65	− 0·65	0	Raipur.
8	1	1	2	2	1	3	4	9	N 67° W	N 39° E	1·8	1·2	+0·6	27	− 5	51	−22	·288	−·111	0·5	−1·2	0	−0·7	0	0·26	−0·26	0	0·98	− 0·98	0	Chanda.
31	0	0	0	0	0	0	0	0	Calm.		0·8			(a)		71		·306		0		0	−0·1	0	0·15	−0·15	0	0·69	− 0·69	0	Jagdalpur.
																															XIII.—Hyderabad.
13	0	2	12	9	0	0	0	0	S 85° E		4·2			53		23	−27	·150	−·188	0·7	−0·6	0	−0·6	0	0·31	−0·31	0	0·94	− 0·94	0	Aurangabad.
24	1	5	[illegible]	0	0	0	0	0	N 45° E		1·1			7		42	−25	·261	−·174	0·3	−1·6	0	−0·4	0	0·12	−0·12	0	0·73	− 0·73	0	Nizamabad.
3	0	15	10	2	0	0	1	0	N 67° E	N 76° E	4·2	5·3	−1·1	76	+29	46	−15	·303	−·106	0	−1·7	0	−0·3	0	0·19	−0·19	0	0·91	− 0·91	0	Gulbarga.
1	1	6	7	4	7	3	2	0	S 56° E	S 77° E	4·7	5·4	−0·7	40	−26	57	− 7	·420	−·049	0·3	−1·9	0	−0·2	0	0·17	−0·17	0	0·92	− 0·92		Raichur.
28	0	0	0	2	0	1	0	0	S 18° E	S 63° E	1·7	2·3	−0·6	7	− 7	59	−13	·383	−·061	1·1	−0·9	0	−0·3	0	0·14	−0·14	0	0·96	− 0·96	0	Hyderabad (Deccan)
15	1	0	0	15	0	0	0	1	S 48° E		2·5			40		56	− 9	·412	−·050	1·1	−1·4	0	−0·4	0	0·22	−0·22	0	0·89	− 0·89	0	Hanamkonda.
																															XIV.—Mysore.
10	0	0	11	10	0	0	0	0	S 69° E	S 77° E	4·1	5·7	−1·6	62	−26	49	−18	·358	−·120P	0·2	−2·8	0	−0·6	0	0·37	−0·37	0·05	2·14	− 2·09	0	Chitaldrug.
7	0	1	20	2	0	0	0	1	E	N 82° E	2·9	2·5	+0·4	11	−74	82	+ 6	·531	+·043	1·2	−2·7	0	−0·9	0	0·79	−0·79	2·06	3·42	− 1·36	0	Hassan.
7	0	9	13	2	0	0	0	0	N 76° E	N 67° E	4·6	4·0	+0·6	69	−17	74	− 5	·439	−·049	1·8	−2·3	0	−1·3	0	0·46	−0·46	2·73	3·12	− 0·39	0	Bangalore.
8	4	10	7	2	0	0	0	0	N 58° E	N 68° E	4·5	7·5	−3·0	59	−24	66	− 9	·419	−·063	0·7	−3·7	0	−1·0	0	0·39	−0·39	1·58	2·60	− 1·02	0	Mysore.
																															XV.—Madras.
0	0	1	29	1	0	0	0	0	E	S 86° E	4·2	2·1	+2·1	98	+12	64	− 3	·576	−·053	0·6	−1·9	0	−0·8	0	0·50	−0·50	4·84	3·35	+ 1·49	0	Mangalore.
0	0	3	22	6	0	0	0	0	S 86° E	N 85° E	3·6	5·1	−1·5	92	+ 9	80	+ 2	·699	+·008	1·2	−1·1	0	−1·9	0·01	1·15	−1·14	7·01	5·97	+ 1·04	0·01	Calicut.
7	0	12	12	0	0	0	0	0	N 68° E	N 36° E	2·3	3·1	−0·8	69	−10	73	− 1	·671	−·018	2·1	−0·7	1	−1·6	0·15	1·76	−1·61	7·90	7·93	− 0·03	0·15	Cochin.
13	1	8	7	2	0	0	0	0	N 69° E	N 49° E	2·3	2·7	−0·4	49	+13	88	+ 7	·750	+·034	2·9	−1·3	0	−3·7	0	2·40	−2·40	18·13	8·77	+ 9·36	0	Trivandrum.
0	26	1	0	0	0	0	0	4	N 4° W	N 13° E	9·4	9·6	−0·2	96	+13	88	0	·810	−·009	3·2	−1·2	2	−7·5	2·28	7·64	−5·36	29·53	18·82	+10·71	2·10	Pamban.
1	12	9	3	0	0	0	1	5	N 12° E	N 5° E	4·0	3·4	+0·6	76	− 7	76	+ 1	·648	−·022	4·7	+0·5	1	−2·5	0·15	1·81	−1·66	12·91	6·61	+ 6·30	0·15	Madura.
2	15	14	0	0	0	0	0	0	N 22° E		4·3			87		73	− 4	·610	−·013	2·8	−2·5	1	−3·2	0·30	2·92	−2·62	17·35	8·51	+ 8·84	0·21	Pudukkottai.
4	3	1	0	0	0	0	0	23	N 38° W	N 6° W	8·5	6·6	+1·9	82	− 4	81	− 1	·675	−·077	4·8	−1·5	4	−5·6	2·98	11·84	−8·86	57·81	27·68	+30·13	1·26	Negapatam.
11	5	10	0	0	0	1	2	2	N 14° W	N 16° E	2·5	3·3	−0·8	43	− 7	77	0	·648	−·020	3·2	−1·5	1	−3·7	0·24	2·69	−2·45	19·59	7·78	+11·81	0·20	Trichinopoly.
9	1	8	13	0	0	0	0	0	N 70° E	N 77° E	2·4	2·2	+0·2	66	−17	70	−13	·560	−·085	2·4	−2·4	0	−2·7	0	1·22	−1·22	7·00	4·65	+ 2·35	0	Coimbatore.
10	3	14	2	0	0	2	0	0	N 42° E	N 40° E	2·8	2·8	0	49	+20	78	+ 1	·586	−·048	0·9	−3·0	0	−2·3	0	1·01	−1·01	7·04	4·59	+ 2·45	0	Salem.
1	7	2	0	0	0	0	2	19	N 33° W	N 10° W	5·4	2·0	+3·4	86	+ 7	82	− 5	·664	−·079	3·5	−1·1	0	−6·2	0	7·65	−7·65	40·10	20·94	+19·16	0	Cuddalore.
31	0	0	0	0	0	0	0	0	Calm		1·3			(a)		84	− 2	·569	−·063	0·9	−3·1	0	−4·0	0	3·15	−3·15	8·63	9·30	− 0·67	0	Vellore.
27	2	0	0	0	0	0	0	2	N 23° W	N 8° E	2·3	5·3	−3·0	10	−73	80	− 3	·667	−·059	2·9	−2·0	0	−5·2	0·01	5·97	−5·96	30·51	19·27	+11·24	0·01	Madras.
10	3	2	2	4	4	0	0	6	N 49° E	S 75° E				10	−33	75	− 2	·563	−·053	1·1	−2·3	0	−1·6	0	0·99	−0·99	2·90	4·46	− 1·56	0	Cuddapah.

(a) Indeterminate.

Table

(2) Abstract of observations taken at 8 hrs. at 212

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— *concld.*																					
	Bellary	1,475	28·542	−·019	29·979	28·614	29th	28·492	2nd	70·9	61·7	89·7	+3·8	60·0	−1·3	74·9	+1·3	29·7	93·3	6th	54·5	2nd
	Kurnool	923	29·099	−·021	29·993	29·161	29th	29·057	24th	66·6	60·8	90·3	+3·6	59·1	−0·5	74·6	+1·5	31·2	93·6	6th	54·1	4th
3?	Nellore	66	29·971	−·019	29·973	30·016	30th	29·932	1st & 24th.	72·5	69·9	84·4	+0·2	66·2	−1·9	75·3	−0·9	18·2	86·1	6th	64·2	20th
	Masulipatam	15	30·037	−·026	29·986	30·105	29th	29·981	4th	72·0	67·7	84·5	+1·4	64·6	−1·9	74·5	−0·3	19·9	88·3	4th & 5th.	62·9	14th & 19th.
	Cocanada	26	30·033	−·015	29·996	30·095	29th	29·970	4th	70·8	66·3	81·9	+1·3	64·9	−1·2	73·4	+0·1	17·0	88·2	5th	62·2	11th & 17th.
	(Vizagapatam)	38	30·017	−·019	29·994	30·088	29th	29·951	4th	71·4	65·2	81·7	+1·0	65·8	−2·4	73·7	−0·7	15·9	84·9	6th	62·5	9th.
	Calingapatam	19	30·034		29·991	30·103	29th	29·961	4th	66·0	61·6	83·7		60·0		71·8		23·7	89·5	4th	56·7	1st
	Gopalpur	56	30·005	−·029	30·003	30·097	29th	29·930	4th	66·3	62·0	81·8	+1·9	60·1	−0·6	70·9	+0·7	21·7	86·0	1st	57·3	10th
	Bay Islands.																					
1	P. V. Fraser	8	30·023		29·986	30·104	19th	29·939	1st	73·0	66·7											
	Port Blair	58	29·870	−·053	29·859	29·935	19th	29·821	27th	79·2	74·8	84·5	−1·3	75·3	−1·2	79·9	−1·3	9·2	87·2	30th	70·5	6th & 7th.
	Table Island	90	29·864	−·041	29·888	29·939	19th	29·811	1st	79·4	73·4	82·7	−1·0	76·3	−0·1	79·5	−0·5	6·4	85·2	14th & 16th.	70·9	4th
	Kashmir.																					
13	Muzaffarabad		27·664			27·803	12th	27·487	24th	44·6	40·5	66·7		40·3		53·5		26·4	76·0	14th	35·9	9th
	Srinagar	5,204	24·998	−·039	24·999	25·158	12th	24·820	25th	29·9	33·6*	49·2	+0·9	24·2	−3·7	36·6	−1·4	25·0	62·4	1st	18·1	16th
	Gulmarg	*8,569*																				
	Dras	*10,059*	20·807	−·031	20·775	21·109	13th	20·539	25th	15·7		30·9	+3·2	10·5	+10·3	20·7	+6·7	20·4	44·1	2nd	5·0	29th
	Leh	*11,503*	19·687	−·035	19·655	19·919	13th	19·491	25th	19·5		39·3	+3·3	14·9	+1·8	27·1	+2·5	24·4	48·7	3rd	6·0	28th
	Skardu	*7,505*	22·917	−·091	22·887	23·200	13th	22·654	25th	29·1	33·1§	45·3	+3·8	26·2	+3·6	35·7	+3·7	19·1	54·8	2nd	19·5	16th
	Gilgit	4,890	25·287	−·036	25·260	25·485	16th	25·074	3rd	36·8	34·0†	51·5	+2·1	33·5	−0·3	42·5	+0·9	18·0	58·4	2nd	29·2	28th
	Baluchistan.																					
15	Fort Sandeman	4,614	25·513		25·482	25·651	14th	25·256	24th	31·5	33·4‡	59·6		28·8		44·2		30·8	71·7	17th	21·1	5th & 6th
	Quetta	5,502	24·738	−·013	24·698	24·914	14th	24·575	23rd	24·3	34·9§	52.4	−4·2	21·5	−7·9	37·0	−6·1	30·9	64·3	17th	14·9	4th
	Chaman	4,311	25·799	−·032	25·761	26·003	14th	25·682	23rd	31·3	34·8‖	51·1	−4·4	27·1	−9·8	39·1	−7·1	24·0	62·7	14th	17·5	4th
	Kalat	6,630	23·760		23·722	23·939	14th	23·588	23rd	22·4		53·2	−3·5						65·2	16th		
	Dalbandin	2,772	27·314		27·277	27·496	14th	27·186	28th	30·7	36·9‡	56·3		25·9		41·1		30·4	70·0	30th	19·1	5th
	Pasni		30·117		30·077	30·202	14th	30·012	1st	58·9	49·4	77·5		53·3		65·4		24·2	84·8	17th	41·7	25th
	Panjgur	3,177	26·887		26·845	27·036	14th	26·789	1st	35·3	35·4¶	59·5		32·4		45·9		27·1	71·8	17th	26·4	10th
	Seistan		28·514			28·690	14th	28·290	28th & 29th.	30·6	34·3**	51·1		27·0		39·1		24·1	61·9	30th & 31st.	15·9	5th
	Hill stations, excluding Kashmir and Baluchistan.																					
	Parachinar	6,000	24·482	−·049	24·453	24·597	12th	24·331	24th	38·7	33·8††	56·9	+2·4	32·5	−0·3	44·7	+1·1	24·4	67·2	16th	26·3	20th
	Cherat	*4,956*	25·835	−·013	25·773	25·932	12th	25·658	24th & 25th.	47·4	36·9‡‡	55·7	+0·8	43·6	−1·0	49·7	−0·1	12·1	61·6	14th	34·8	26th
	Drosh (c)	4,500	25·212			25·425	12th	25·025	3rd	37·5	35·2§§	50·1	−3·0	25·5	−0·2	42·8	−1·6	14·6	55·1	14th & 16th	29·0	6th
	Murree	181	24·002	−·039	23·970	24·177	12th	23·869	25th	45·9	36·4‖‖	52·4	+0·3	43·1	+4·5	47·7	+2·4	9·3	61·9	13th	32·8	26th

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

(c) Aneroid.

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

* Mean of 3 days.
† " " 16 "
‡ " " 5 "
§ " " 2 "
‖ " " 8 "
¶ Mean of 14 days.
** " " 10 "
†† " " 19 "
‡‡ " " 30 "
§§ " " 22 "
‖‖ " " 28 "

B—*continued.*

stations in India, etc., in December, 1920—*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 November to 31st December 1920.	Normal rainfall for this period.	Departure from normal 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	56
																															V.—Madras—*concld.*
9	0	0	4	11	6	1	0	0	S 37° E	S 59° E	2·3	2·4	−0·1	59	+16	55	−11	·425	−·044	0·3	−3·0	0	−0·3	0	0·12	−0·12	0·21	2·16	−1·95	0	Bellary.
31	0	0	0	0	0	0	0	0	Calm	S 80° E	0·6			(a)		70	− 2	·456	−·045	0·1	−1·8	0	−0·5	0	0·27	−0·27	0·09	1·38	−1·29	0	Kurnool.
13	6	0	0	0	1	2	0	9	N 38° W	N 51° W	1·4	3·1	−1·7	43	−29	87	+ 2	·098	−·004	1·8	−4·0	0	−3·1	0	3·00	−3·00	16·78	12·90	+3·88	0	Nellore.
1	15	15	0	0	0	0	0	0	N 23° E	N 15° E	3·3	3·8	−0·5	92	+ 6	79	− 2	·615	−·024	0	−2·7	0	−1·1	0	0·93	−0·93	0·62	6·08	−5·46	0	Masulipatam.
19	9	3	0	0	0	0	0	0	N 10° E	N 5° E	4·3	6·6	−2·3	37	−53	78	+ 5	·585	+·022	2·0	−0·8	0	−1·0	0	0·97	−0·97	0·90	5·94	−5·04	0	Cocanada.
1	2	0	0	0	0	0	2	26	N 45° W	N 31° W	4·6			92	+43	70	+ 8	·540	+·023	1·2	−1·9	0	−1·1	0	0·87	−0·87	3·49	4·16	−0·67	0	Vizagapatam.
1	5	0	0	0	0	0	10	15	N 53° W		3·9			84		77		·488		0·7		0	−0·9	0	1·49	−1·49	0·16	4·03	−3·87	0	Calingapatam.
0	30	1	0	0	0	0	0	0	N 1° E	N 23° W	4·9	6·0	−1·1	100	+25	76	− 1	·491	−·006	0·5	−0·7	0	−1·0	0	0·84	−0·84	0	4·73	−4·73	0	Gopalpur.
																															Bay Islands.
1	15	8	0	0	0	0	2	5	N 1° E					78		70		·575		3·0		0	−0·5	0	1·33	−1·33	2·64	3·13	−0·49	0	P. V. Fraser.
1	11	9	5	1	1	0	0	3	N 29° E	N 55° E	5·6	5·3	+0·3	69	+11	81	0	·807	−·012	3·7	−1·5	6	−1·3	3·36	6·87	−3·51	13·71	16·31	−2·60	1·77	Port Blair.
2	15	5	7	1	0	0	0	1	N 30° E		7·9			72		74	− 2	·746	−·017	5·1	−1·1	5	+3·1	2·52	2·31	+0·21	6·35	7·90	−1·55	0·80	Table Island.
																															Kashmir.
25	0	0	0	0	0	4	2	0	S 59° W		0·8			19		69		·202		3·8		2	−2·0	0·66	2·29	−1·63	0·68	3·17	−2·49	0·45	Muzaffarabad.
12	1	2	3	3	0	6	4	0	S 26° W	S 42° E	2·1	1·9	+0·2	17	− 2	80*		·166*		5·2	−0·3	2	−1·4	0·65	1·36	−0·71	0·65	1·84	−1·19	0·30	Srinagar.
																															Gulmarg.
21	1	2	0	0	0	2	3	2	N 61° W		1·9			13						7·2	+2·1	3	−2·7	1·03	1·66	−0·63	1·26	2·12	−0·86	0·40	Dras.
31	0	0	0	0	0	0	0	0	Calm	S 22° W	1·4	0·9	+0·5	(a)						4·5	−1·2	1	+0·5	0·19	0·17	+0·02	0·19	0·20	−0·01	0·15	Leh.
[illegible]	0	0	1	2	2	0	0	3	S 15° E		3·1			4		51†		·121†		5·5	−0·5	0	−1·2	0·09	0·38	−0·29	0·09	0·45	−0·36	0·09	Skardu.
[illegible]	0	0	0	0	0	2	0	0	S 45° W		0·1			3		60‡	+ 1	·145‡	+·014	5·7	−0·3	0	−0·3	0	0·11	−0·11	0·25	0·16	+0·09	0	Gilgit.
																															Baluchistan.
[illegible]	0	1	7	5	1	0	2	0	S 67° E §		2·1‖			36		¶ 83		¶ ·169		3·5		2	+0·9	0·45	0·39	+0·06	0·45	0·67	−0·22	0·33	Fort Sandeman.
29	0	0	0	0	1	0	0	1	S 67° W	S 7° E	1·6	1·7	−0·1	2	− 7	87†		·186†		2·8	−0·3	1	−1·2	0·24	0·92	−0·68	0·24	1·28	−1·04	0·24	Quetta.
18	0	0	7	6	0	0	0	0	S 70° E	S 52° E	1·3	4·9	−3·6	40	−32	** 70		** ·160		3·5	−0·3	2	−0·8	0·92	1·08	−0·16	0·92	1·42	−0·50	0·50	Chaman.
[illegible]	0	0	0	1	4	3	0	1	S 19° W	S 24° W	3·2			20	−27					2·5		1	−1·3	0·19	1·04	−0·85	0·19	1·44	−1·25	0·10	Kalat.
[illegible]	0	9	4	1	0	0	1	0	N 61° E		3·6			40		¶ 76		¶ ·187		2·2		1	−0·6	0·35	0·38	−0·03	0·35	0·62	−0·27	0·35	Dalbandin.
8	10	4	0	0	0	0	1	6	N 12° W		5·9			62		48		·230		0·5		1	−0·4	0·10	0·71	−0·61	0·10	0·80	−0·70	0·10	Pasni.
6	2	14	9	0	0	0	0	0	N 57° E		6·0			72		†† 72		†† ·169		1·4		0		0·02			0·02			0·02	Panjgur.
26	0	0	0	0	0	0	0	11	N 45° W		4·8			37		§§ 79		§§ ·171		2·5		0		0	0		0			0	Seistan.
																															Hill stations, excluding Kashmir and Baluchistan.
1	0	0	0	0	0	0	0	0	Calm		0·2			(a)		P 54	− 7	P ·128	−·023	3·0	−0·4	0	−3·1	0·03	1·21	−1·18	0·26	1·81	−1·55	0·03	Parachinar.
2	18	3	0	1	1	0	1	5	N 4° W	N 13° W	10·5	9·6	+0·9	72	− 3	‖‖ 83	−13	‖‖ ·103	−·040	0	−3·5	1	−0·7	0·28	1·35	−1·07	0·28	1·59	−1·31	0·28	Cherat.
[illegible]	0	0	1	9	0	0	0	0	E		1·1			3		¶¶ 69	+ 6	¶¶ ·163	+·017	4·6	+0·6	2	−0·9	0·52	1·01	−0·49	1·42	1·39	+0·03	0·30	Drosh.
[illegible]	1	3	2	3	5	0	1	0	S 52° E	S 84° E	5·2	5·2	0	23	− 6	‡‡ 37	−11	‡‡ ·112	−·015	3·3	−0·5	1	−1·7	0·38	1·49	−1·11	0·38	2·33	−1·95	0·30	Murree.

[illegible]ill or plateau stations, the elevations of which exceed 3,200 feet.

(a) Indeterminate.

* Mean of 3 days.
† „ 2 „
‡ „ 16 „
§ Wind observations for 29 days.
‖ Mean of 29 days.
¶ „ 5 „

** Mean of 8 days.
†† „ 14 „
‡‡ „ 28 „
§§ „ 10 „
‖‖ „ 30 „
¶¶ „ 22 „
P „ 19 „

Table

(2) Abstract of observations taken at 8 hrs. at 212

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	23·157	+·003	23·119	23·261	14th	23·001	25th	47·7	35·8*	55·6	+5·7	43·7	+4·4	49·6	+5·1	11·9	62·1	15th	31·0	26th
	Chakrata	6,922	23·451	+·005	23·311	23·561	19th	23·299	31st	50·8	37·7	61·9	+6·5	44·1	+4·8	53·0	+5·7	17·8	70·8	14th	30·7	27th
	Mukteswar	7,592	22·898	+·006	22·857	22·963	20th	22·772	1st	48·8	35·7‡	59·8	+5·4	40·9	+2·7	50·4	+4·1	18·9	66·3	14th	28·2	27th
	Darjiling	7,432	22·986	—·029	22·941	23·077	17th	22·871	31st	41·8	39·7	51·0	+1·8	38·7	+2·0	44·9	+1·9	12·3	57·3	1st	30·6	28th
	Kalimpong		26·076		26·030	26·186	29th	25·979	2nd	53·3	50·5	63·8		49·9		56·9		13·9	68·6	15th	41·4	29th
	Shillong	4,920	25·201	—·019	25·153	25·309	29th	25·115	1st	50·5	47·5	61·6	—0·6	42·6	+3·4	52·1	+1·4	19·0	65·1	11th	33·7	29th
	Cherrapunji	4,309	25·763	—·007	25·714	25·830	29th	25·681	31st	55·7	51·7	63·3	+1·1	52·3	+4·9	57·8	+3·0	11·0	67·7	9th	47·2	31st
	Netarhat‖									60·1	49·5	71·2		46·4		58·8		24·8	73·8	15th	41·3	16th
	Maymyo	3,546	26·478	—·037	26·423	26·565	29th	26·377	1st	47·0	46·6	71·1	+1·5	42·9	+0·3	57·0	+0·9	28·2	73·8	15th	37·8	30th
	Pachmarhi	3,528	26·559	—·026	26·506	26·620	29th	26·490	24th	55·5	47·5	76·6	+6·0	45·5	—0·3	61·0	+2·9	31·1	80·5	10th	40·1	4 days.
	Mount Abu	3,945	26·155	—·009	26·104	26·243	14th	26·018	24th	62·1	47·8	70·9	+2·6	53·9	+0·9	62·4	+1·7	17·0	76·6	13th	43·0	26th
	Mercara	3,781	26·277	—·007	26·210	26·318	20th	26·233	24th	60·7	60·4	76·3	+0·8	54·6	—3·1	65·5	—1·1	21·7	80·0	15th	50·9	4th
	Ootacamund	*7,327*	23·088	+·008	23·024	23·138	19th	23·034	23rd & 24th.	56·7	45·6	67·6	+3·3	42·5	—1·8	55·0	+0·7	25·1	70·5	11th & 19th.	35·7	23rd & 24th.
	Kodaikanal	7,688	22·851	—·009	22·786	22·898	19th	22·808	24th	56·3	45·2	64·9	+2·5	46·8	—0·8	55·9	+0·9	18·1	70·3	11th	39·6	23rd
	Ext a ndia.																					
	Singapore (*c*)	10	29·832	—·098	29·763	29·900	30th	29·799	3,8 & 10th.	83·8		89·8	+3·9	74·7	+2·1	82·3	+3·0	15·1	93·0	7th & 8th.	73·0	28th
	Penang (*a*)	17	29·847	—·083	29·789	29·971	21st	29·799	6 days.	80·2		85·1	—2·8	71·8	—1·9	78·5	—2·3	13·3	89·0	2,4 & 6th,	70·0	7 days.
	Trincomalee	99	29·890†	+·011†	29·919†	29·937	6th	29·854	8th	76·6	73·6	83·9	+0·9	74·1	—0·1	79·0	+0·4	9·8	88·0	27th	69·7	4th
	Colombo	24	29·949	—·002	29·899	30·011	6th	29·904	12th	72·1	69·9	86·0	—0·9	71·1	—1·8	78·5	—1·3	14·9	87·8	26th & 30th.	63·2	5th
	Hambantota	64	29·900		29·891	29·955	6th	29·854	12th	73·0	70·6	85·3		72·2		78·8		13·1	87·2	9th	67·3	22nd
	Minicoy	7	29·964	—·010		30·053	6th	29·955	28th													
	Amini Divi	13	29·963	—·022	29·904	30·025	6th	29·873	14th	82·3	74·7	87·8	+2·0	72·3	—1·3	80·1	+0·3	15·5	89·8	22nd	67·9	23rd
	Gyantse	13,110																				
	Pharijong	14,400																				
	Gangtok	5,760	24·329	—·235	24·284	24·418	18th	24·218	31st	47·8	45·4	61·1	+0·8	46·3	+12·2	53·7	+6·5	14·8	67·3	3rd	39·0	29th & 31st.
	Gartok (*c*)	15,100																				
	Kashgar (*c*)	4,255	25·683	—·107		26·060	18th	25·450	26th & 28th.	22·8		34·6	—3·2	19·7	+2·8	27·2	—0·2	14·9	54·8	18th	13·8	26th
	Kabul (*c*)																					
	Meshed	3,104								16·5†		36·8†	—13·2	13·6§	—16·9	25·4§	—15·1	23·2	47·4	17th	2·5	7th
	Jask	13	30·130	+·019	30·096	30·271	14th	30·004	1st	61·6	54·1	75·9	—1·7	53·4	—10·6	64·6	—6·1	22·5	80·5	15th	45·8	24th
	Muscat	20	30·154	+·040	30·122	30·276	14th	30·061	22nd	68·6	62·2	77·2	+0·3	65·8	—4·5	71·5	—2·1	11·4	82·2	16th	59·7	24th
	Bushire	14	30·164	+·023	30·140	30·304	14th	29·858	11th	52·5	48·8	62·6	—5·9	48·9	—6·3	55·8	—6·1	13·7	68·1	21st	39·5	3rd
	Busrah	25																				
	Ispahan (*c*)	*5,817*	24·327	+·037		24·500	14th	24·130	28th	23·4	P	35·3	—16·5	20·5	—8·2	27·9	—12·3	14·8	48·4	28th & 29th.	11·2	14,23, 24th.
	Tehran (*c*)‡‡	*4,002*	25·384	—·046		26·050	17th	25·700	27th	27·1	35·5a	36·6	—14·7	23·4	—10·1	30·0	—12·4	13·2	43·4	30th & 31st,	10·0	2nd
	Baghdad	125	30·046	—·010	30·158	30·202	3rd	29·566	27th	39·9	41·1¶	58·1	—5·0	37·7	—4·9	47·9	—4·9	20·4	62·6	27th	24·6	3rd
	Aden†	94	29·974	—·018	30·002	30·044	20th	29·897	10th	74·9	68·8	79·3	—2·2	73·3	+0·1	76·3	—1·1	6·0	85·8	1st	68·9	21st
	Zanzibar	72	29·927	—·001	29·925	29·984	20th	29·880	12th	81·4	76·9	85·6	—0·1	78·9	—0·2	82·3	—0·1	6·7	91·0	2nd	74·6	11th

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

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

‖ Mean of 12 days.
† " " 30 "
* " " 26 "
‡ " " 25 "
§ " " 28 "
‡‡ " " 29 "
¶ " " 5 "
† " " 10 "

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

B—*concluded.*

stations in India, etc., in December, 1920—*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 Nov. to 31st Dec. 1920.	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.*
																23*	−18	·072*	−·034	2·8	−0·8	1	−1·1	0·15	1·21	−1·06	0·15	1·75	−1·60	0·15	Simla.
2	0	12	16	0	0	0	0	1	N 69° E	N 28° E	6·5	3·7	+2·8	82	+45	28	−21	·091	−·040	1·2	−1·5	1	−1·2	0·37	1·31	−0·94	0·37	1·92	−1·55	0·37	Chakrata.
2	0	2	1	1	0	1	23	1	N 88° W		7·8			69		24†	−19	·069†	−·046	2·1	−0·7	0	−1·6	0·10	0·78	−0·68	0·10	1·23	−1·13	0·08	Mukteswar.
25	1	3	1	0	0	0	1	0	N 34° E	S 89° E	1·2	2·1	−0·9	13	−28	84	+8	·223	+·028	4·7	+1·6	0	−0·7	0	0·28	−0·28	0	1·18	−1·18	0	Darjiling.
																82		·336		2·3		P		P			P			P	Kalimpong.
29	0	0	1	0	0	0	1	0	Calm		0·9			a		80	+10	·296	+·056	1·6	0	1	+0·2	0·23	0·23	0	0·74	1·68	−0·94	·015	Shillong.
21	0	4	4	1	0	1	0	0	N 78° E		1·6			23		77	+13	·341	+·074	0·5	−1·1	0	−1·0	0	0·42	−0·42	0·04	2·77	−2·73	0	Cherrapunji.
0	2	0	0	0	0	1	1	8	N 45° W		8·1‡			83		45		·237		0		0		0			0			0	Netarhat.
30	0	0	0	0	0	1	0	0	S 45° W		0·8			3		98	+8	·315	−·057	2·4	−0·2	0	−1·1	0	0·64	−0·64	0·57	3·71	−3·14	0	Maymyo.
21	0	3	2	1	1	1	1	1	N 45° E	S 52° E	3·2	2·0	+1·2	3	−7	55	−7	·241	−·064	0·3	−1·5	0	−0·8	0	0·51	−0·51	0	1·19	−1·19	0	Pachmarhi.
17	2	1	0	0	1	6	4	0	S 71° W	N 8° E	3·0	3·0	0	23	+9	32	−10	·174	−·042	0·5	−1·0	0	−0·3	0	0·14	−0·14	0	0·35	−0·35	0	Mount Abu.
8	0	11	12	0	0	0	0	0	N 69° E	N 72° E	3·0	4·7	−1·7	69	−14	98	+15	·520	+·058	4·0	−1·0	0	−1·2	0	0·78	−0·78	6·86	3·62	+3·24	0	Mercara.
8	0	0	8	10	5	0	0	0	S 51° E		2·8			62		44	−15	·194	−·075	1·9	−1·7	0	−4·5	0	2·16	−2·16	6·94	6·79	+0·15	0	Ootacamund.
0	5	5	8	6	2	1	2	2	N 76° E		7·7			40		45	−17	·192	−·062	2·7	−1·2	3	−4·2	0·58	5·02	−4·44	16·10	12·38	+3·72	0·28	Kodaikanal.
																															Extra India.
7	4	5	0	0	0	3	0	12	N 27° W					53						6·2	+1·1	7	−7·5	3·72	11·14	−7·42	16·28	20·80	−4·52	1·65	Singapore.
0	3	28	0	0	0	0	0	0	N 41° E					99								12	+2·4	10·08	6·10	+3·98	12·71	19·25	−6·54	2·87	Penang.
3	6	8	1	1	1	5	4	2	N 12° W	N 23° E	4·9	5·3	−0·4	27	−12	86	−1	·761	−·042	6·3	+1·6	7	−7·2	5·91	14·27	−8·36	26·68	28·64	−1·96	1·88	Trincomalee.
15	6	10	0	0	0	0	0	0	N 28° E	N 33° E	3·5	6·1	−2·6	49	−29	93	+12	·704	−·081	4·0	−0·4	7	−0·6	4·03	5·55	−1·52	19·37	18·29	+1·08	0·99	Colombo.
0	17	13	0	0	0	0	0	1	N 18° E		7·4			96		88		·717		4·4		4		1·78	5·52	−3·74	8·92	12·20	−3·28	0·65	Hambantota.
									N 61° E	N 42° E	2·1	4·5	−2·4	71	+11					4·7	+1·4	2	−2·3	1·30	3·59	−2·29	15·45	9·14	+6·31	0·87	Minicoy.
1	9	18	1	1	0	0	0	1	N 32° E		2·9			84		69	−2	·759	−·022	2·5	−1·1	0	−2·0	0·05	1·13	−1·08	4·34	3·24	+1·10	0·03	Amini Divi.
																															Gyantse.
																															Phari Jong.
31	0	0	0	0	0	0	0	0	Calm					a		84	+9	·282	+·028	5·6	+3·6	0	−2·2	0	1·12	−1·12	0·54	3·32	−2·78	0	Gangtok.
																									0						Gartok.
27	2	0	0	0	0	0	0	2	N 18° W	N 8° W	0·6	0·7	−0·1	10	+3					7·5	+3·3	3	+2·8	0·59	0·09	+0·50	0·59	0·10	+0·49	0·25	Kashgar.
										S 56° W															0·43						Kabul.
29	2	0	0	0	0	0	0	0	N		0·8			6						4·2	−0·3	1	−1·0	0·19	0·72	−0·53	1·55	1·32	+0·23	0·10	Meshed.
4	9	11	3	0	0	0	1	3	N 22° E	N 23° E	7·8	7·5	−0·2	69	−4	59	−13	·324	−·129	2·9	+0·1	0	−2·0	0·04	1·14	−1·10	0·04	1·46	−1·42	0·04	Jask.
14	0	0	0	3	0	0	3	11	N 53° W	S 74° W	3·7	2·9	+0·8	49	+12	68	0	·477	−·060	2·9	+0·4	0	−1·5	0	0·61	−0·61	0·16	1·00	−0·84	0	Muscat.
1	6	4	3	2	0	0	0	15	N 10° W	N 63° E	6·1	4·7	+1·4	59	+1	75	0	·301	−·097	4·5	0	4	−0·2	4·58	3·06	+1·52	4·88	4·55	+0·23	2·10	Bushire.
																									1·18						Busrah.
27	1	0	0	1	0	0	1	1	N 45° W	S 85° W	0·6	1·9	−1·3	3	−38	P (a)		P (a)		5·3	+2·0	3	+1·2	1·16	0·82	+0·34	2·55	1·26	+1·29	0·40	Ispahan.
20	3	6	0	0	0	0	0	0	N 30° E	N 11° E	2·2	2·0	+0·2	31		100	P	·191	P	1·4	−2·6	4	+0·1	1·67	1·29	+0·38	3·50	2·24	+1·26	0·41	Tehran.
5	2	5	1	3	2	2	7	4	N 58° W	N 3° W	4·7	2·2	+2·5	20	0	78‖	+1	·227‖	−·016	4·7	+1·1	3	−0·1	2·03	1·18	+0·85	2·41	1·94	+0·47	1·38	Baghdad.
5	1	21	2	1	0	0	0	0	N 49° E	N 76° E	11·1	9·4	+1·7	76	+4	72	−2	·623	−·040	6·5	+1·8	0	−0·2	0	0·11	−0·11	0	0·20	−0·20	0	Aden.
6	9	10	1	0	1	2	1	1	N 20° E	N 85° E	3·5	4·6	−1·1	48	+7	81	−1	·863	−·013	3·9	−2·0	12	+3·6	7·62	5·47	+2·15	9·38	13·51	+4·13	2·55	Zanzibar.

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

* Mean of 26 days.
† „ „ 22 „
‡ „ „ 11 „
‖ „ „ 20 „
a „ „ 5 „

(a) Indeterminate.

Table C.—Abstract of observations taken at 8 hrs. at 61 fourth and fifth class stations in India, etc., in December, 1920.

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	58·7	54·2	79·8	+4·9	42·5	−1·7	61·1	+1·6	37·3	83·1	7th, 16th & 26th.	33·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Borjuli	65·9	61·3	81·2	+3·2	55·4	+10·4	68·3	+6·8	25·8	83·4	16th	47·6	30th	...	...	...	...	...	...	...	...	...	...	...
	Chandkhira	58·4	56·8	80·0	−0·3	43·3	−7·0	61·7	−3·7	36·7	80·4	11th & 23rd.	31·0	31st	...	...	...	...	...	...	...	...	...	...	...
	Doom Dooma	54·8	53·9	77·9	+9·1	51·1	+3·6	64·5	+6·3	26·8	82·3	8th	40·2	28th & 30th.	...	...	...	...	...	...	...	...	...	...	...
	Dikom	56·0	54·9	77·8	+2·9	50·5	+4·6	64·1	+3·7	27·3	81·8	8th	39·4	30th	...	...	...	...	...	...	...	...	...	...	...
	Golaghat	57·6	56·7	75·5	+4·4	49·4	...	62·5	...	26·1	78·8	15th	40·2	30th	...	...	...	...	...	...	...	...	...	...	...
	Hailakandi	59·1	58·3	81·3	+1·7	55·8	+3·2	68·5	+2·5	25·5	84·8	15th	45·8	31st	...	...	...	...	...	...	...	...	...	...	...
	Jorehat	57·3	56·5	77·4	+2·7	51·0	+1·2	64·2	+1·9	26·4	80·5	17th	41·3	30th	...	...	...	...	...	...	...	...	...	...	...
	Lumding	56·9	55·8	78·4	...	51·7	...	65·1	...	26·7	80·9	4 days	43·0	30th	...	...	...	...	...	...	...	...	...	...	...
	Messa	68·7	63·6	82·5	+1·0	50·3	+4·8	66·4	+2·9	32·2	87·3	3rd	40·6	30th	...	...	...	...	...	...	...	...	...	...	...
	Panerihat	53·6	53·1	72·4	−3·8	48·1	0	60·3	−1·9	24·3	82·6	12th	38·8	28th, 29th & 30th.	...	...	...	...	...	...	...	...	...	...	...
	III.—Bengal.																								
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	69·2	59·7	83·1	+3·1	56·7	+2·6	69·9	+2·9	26·4	87·0	2nd	48·9	30th	...	...	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	67·6	61·6	79·5	+1·9	53·0	+1·5	66·3	+1·7	26·5	82·0	21st	43·8	30th	...	...	...	...	...	...	...	...	...	...	...
	Pabna	63·4	59·4	81·9	+1·0	55·3	+2·2	68·6	+1·6	26·6	85·0	17th	50·0	29th	...	...	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dam Dim	53·3	52·3	80·5	−4·1	48·5	+5·1	64·5	+0·5	32·0	83·4	15th	37·6	28th	...	...	...	...	...	...	...	...	...	...	...
	Kalchini	65·2	59·4	79·6	+1·7	49·5	+2·3	64·5	+2·0	30·1	84·6	15th	40·0	28th	...	...	...	...	...	...	...	...	...	...	...
	Nagrakata	68·3	61·9	77·4	−0·7	53·1	+0·9	65·3	+0·1	24·3	81·6	16th	44·5	28th	...	...	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	56·5	50·2	79·0*	...	49·9	...	65·9*	...	29·1	81·9	27th	40·3	24th	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																								
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 23 days.

C.

and fifth class stations in India, etc., in December, 1920.

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 November to 31st December 1920.	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.
...	...	...	...	...	73	−19	·363	−·002	...	...	1	−0·5	0·23	0·47	− 0·24	0·23	1·02	− 0·79	0·23	Bishnath.
...	...	...	...	...	76	−10	·485	+·106	...	...	0	−0·7	0·05	0·23	− 0·18	0·05	1·07	− 1·02	0·05	Borjuli.
...	...	...	...	...	92	− 4	·446	−·001	...	...	0	−1·0	0	0·46	− 0·46	0·39	1·52	− 1·13	0	Chandkhira.
...	...	...	...	...	94	− 1	·408	+·023	...	...	0	−1·7	0·07	0·53	− 0·46	0·14	1·18	− 1·04	0·04	Doom Dooma.
...	...	...	...	...	93	0	·417	+·054	...	...	2	+0·5	0·66	0·57	+ 0·09	0·66	1·22	− 0·56	0·41	Dikom.
...	...	...	...	...	94	+ 3	·447	+·018	...	...	1	−0·2	0·22	0·54	− 0·32	0·42	1·15	− 0·73	0·22	Golaghat.
...	...	...	...	...	95	+ 3	·480	+·038	...	...	0	−1·4	0	0·52	− 0·52	0·33	1·56	− 1·23	0	Hailakandi.
...	...	...	...	...	95	0	·449	+ ·025	...	...	0	−1·6	0·05	0·66	− 0·61	0·50	1·30	− 0·80	0·05	Jorehat.
...	...	...	...	...	94	...	·433	...	...	...	2	+1·2	0·48	0·30	+ 0·18	0·78	1·54	− 0·76	0·31	Lumding.
...	...	...	...	...	73	− 5	·519	+·087	...	...	0	−1·5	0	0·54	− 0·54	0	0·89	− 0·89	0	Messa.
...	...	...	...	...	97	+ 5	·405	+·056	...	...	0	−1·5	0·14	0·43	− 0·29	0·14	0·90	− 0·76	0·08	Panerihat.
																				III.—Bengal.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·26	− 0·26	0	1·38	− 1·38	0	Comilla.
...	...	...	...	...	54	−30	·390	−·114	...	...	0	−1·0	0	0·44	− 0·44	0	1·18	− 1·18	0	Brahmanbaria.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0	0·14	− 0·14	0	1·34	− 1·34	0	Faridpur.
...	...	...	...	...	70	−13	·472	+·024	...	...	0	−0·5	0	0·33	− 0·33	0	1·04	− 1·04	0	Goalundo.
...	...	...	...	...	78	− 2	·455	+·021	...	...	0	−0·6	0	0·27	− 0·27	0	0·88	− 0·88	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·12	− 0·12	0	0·66	− 0·66	0	Sirajganj.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·07	− 0·07	0	0·56	− 0·56	0	Rampur Boalia.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·06	− 0·06	0	0·44	− 0·44	0	Malda.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·05	− 0·05	0	0·28	− 0·28	0	Rangpur.
...	...	...	...	...	93	− 2	·382	+·023	...	...	0	−0·6	0	0·21	− 0·21	0	1·15	− 1·15	0	Dam Dim.
...	...	...	...	...	69	− 4	·440	+·013	...	...	0	−0·8	0	0·38	− 0·38	0	1·18	− 1·18	0	Kalchini.
...	...	...	...	...	67	− 6	·466	+·070	...	...	0	−1·0	0	0·37	− 0·37	0	1·44	− 1·44	0	Nagrakata.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·13	− 0·13	0	0·42	− 0·42	0	Cooch Behar.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·11	− 0·11	0	1·13	− 1·13	0	Krishnagar.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·08	− 0·09	0	0·73	− 0·73	0	Bankura.
...	...	...	...	...	61	...	·281	...	3·2	...	0	−0·3	0	0·12	− 0·12	0	0·71	− 0·71	0	Raniganj (Asansol).
																				IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·23	− 0·23	0	0·65	− 0·65	0	Hazaribagh.
...	...	...	...	...	...	...	...	...	...	...	0	−0·1	0	0·10	− 0·10	0	0·41	− 0·41	0	Bhagalpur.
...	...	...	...	...	...	...	...	...	...	...	0	−0·2	0	0·07	− 0·07	0	0·34	− 0·34	0	Muzaffarpur.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·16	− 0·16	0	0·39	− 0·39	0	Motihari.
...	...	...	...	...	...	...	...	...	...	...	0	−0·3	0	0·13	− 0·13	0	0·43	− 0·43	0	Chapra.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·17	− 0·17	0	0·49	− 0·49	0	Arrah.
...	...	...	...	...	...	...	...	...	...	...	0	−0·4	0	0·25	−0·25	0	0·78	− 0·78	0	Dehri.

Table

Abstract of observations taken at 8 hrs. at 61 fourth

Number of sub-division.	Station.	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.	Wind direction. 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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	VI.—Punjab.																								
12	Khanpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																								
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																								
23	Chhindwara	55·5	46·9	84·1	...	47·5	...	65·8	...	36·6	88·0	10th	43·0	14th	29	1	1	0	0	0	0	0	0	N 30° E	...
	XIII.—Hyderabad.																								
27	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																								
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	66·8	61·1	88·0	...	57·2	...	72·6	...	30·8	91·8	6th	51·6	4th	...	...	...	...	...	...	...	...	...	...	...
33	Guntur	70·6	66·3	89·1	...	63·4	...	76·3	...	25·7	92·8	5th	61·2	14th	...	...	...	...	...	...	...	...	...	...	...
	Koraput	53·6	48·4	80·1	...	43·5	...	61·8	...	36·6	83·2	10th 11th, & 13th.	40·3	10th	...	...	...	...	...	...	...	...	...	...	...
	Bay Islands.																								
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																								
12	Jammu	53·0	43·9	71·3	...	49·7	...	60·5	...	21·6	79·9	1st	44·3	26th	3	13	11	2	0	0	0	1	1	N 21° E	...
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	26·8	...	29·1	...	9·3	...	24·2	...	23·8	54·2	1st	3·6	21st	12	0	0	0	8	0	6	0	5	S 18° W	...
	Baluchistan.																								
15	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																								
	Panighatta	62·1	56·4	74·9	−1·7	56·0	+1·8	65·5	+0·1	18·9	80·1	15th	44·9	28th	...	...	...	...	...	...	...	...	...	...	...
	Kurseong	55·0	54·2	61·5	+1·0	46·5	−1·1	54·0	−0·1	15·0	61·3	12th	43·4	31st	...	...	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dharampore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussoorie	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	...	53·2	+6·8	30·0	+3·3	41·6	+5·1	23·2	61·8	2nd	22·0	28th	13	4	6	0	1	0	0	0	7	N	...
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	...	53·4	−3·6	13·1	−14·0	33·2	−8·2	40·3	65·9	13th	5·0	4th	...	...	...	...	...	...	...	...	...	...	...

C—*continued.*

and fifth class stations in India, etc., in December, 1920—*continued.*

Wind velocity.			Wind steadiness.		Hygrometry, 8 hrs.				Cloud.		Rainfall.									
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 November to 31st December 1920.	Normal rainfall of this period.	Departure from normal of this period.	Heaviest rainfall during month.	Station.
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	— 1·1	0	0·41	— 0·44	0	0·60	—0·60	0	Meerut.
...	...	...	...	...	...	...	...	...	...	...	0	— 1·5	0·01	0·81	— 0·80	0·01	1·23	— 1·22	0·01	Debra Dun.
																				VI.—Punjab.
...	...	...	...	...	...	...	...	...	...	...	0	...	0	...	...	0	...	...	0	Khanpur.
																				IX.—Rajputana.
...	...	...	...	...	...	...	...	...	...	...	0	— 0·3	0	0·10	—0·10	0	0·14	—0·14	0	Udaipur.
																				XII.—Central Provinces.
0·4	...	...	6	...	49	...	·220	...	0·5	...	0	— 1·4	0	0·62	— 0·62	0	1·94	— 1·94	0	Chhindwara.
																				XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	...	...	0	— 0·7	0	0·30	— 0·30	0	0·33	— 0·33	0	Parbhani.
																				XV.—Madras.
...	...	...	...	...	...	...	...	...	...	...	2	— 3·6	0·45	4·26	— 3·81	20·13	11·45	+ 8·68	0·20	Tinnevelly.
...	...	...	...	...	72	...	·470	...	0	...	0	— 0·2	0	0·27	— 0·27	0·30	2·46	— 2·16	0	Anantapur.
...	...	...	...	...	79	..	·537	...	...	...	0	0	0	0	0	0·15	2·28	— 2·13	0	Guntur.
...	...	...	...	...	67	...	·279	...	...	...	0	...	0	...	...	0	...	...	0	Koraput.
																				Bay Islands.
...	...	...	...	...	...	...	...	...	...	...	11	+ 2·8	7·17	7·56	— 0·39	16·98	18·64	— 1·66	1·52	Car Nicobar.
																				Kashmir.
...	...	...	71	...	44	...	·175	...	3·5	...	1	— 1·3	0·12	0·67	— 0·55	0·12	1·12	— 1·00	0·12	Jammu.
...	...	...	...	...	...	...	...	...	...	...	5	— 2·3	2·42	5·83	— 3·41	2·68	7·46	— 4·78	0·76	Sonamarg.
...	...	...	19	...	...	...	...	...	5·6	...	2	0	0·55	0·79	— 0·24	0·55	0·90	— 0·35	0·21	Kargil.
																				Baluchistan.
...	...	...	...	...	...	...	...	...	...	...	1	— 0·6	0·30	0·68	— 0·38	0·30	1·08	— 0·78	0·30	Harnai.
																				Hill stations, exclusive of Kashmir.
...	...	...	...	...	68	+ 9	·381	+ ·036	...	...	0	— 1·1	0	0·47	— 0·47	0	1·18	— 1·18	0	Panighatta.
...	...	...	...	...	95	+22	·412	+ ·145	...	...	0	— 1·3	0	0·56	— 0·56	0	1·49	— 1·49	0	Kurseong.
...	...	...	...	...	...	...	...	...	...	...	0	— 2·7	0	1·40	— 1·40	0	6·77	— 6·77	0	Gnatong.
...	...	...	...	...	...	...	...	...	...	...	1	— 0·5	0·26	0·60	— 0·34	0·62	2·31	— 1·69	0·11	Lachung.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	2·17	...	...	9·9	...	...	Ringim.
...	...	...	...	...	...	...	...	...	...	...	1	...	0·65	...	...	0·65	...	...	0·65	Dharampore.
...	...	...	...	...	...	...	...	...	...	...	0	— 1·8	0	1·02	— 1·02	0	1·52	— 1·52	0	Mussooree.
...	...	...	41	...	...	...	...	...	3·2	—0·8	3	+ 0·6	0·41	0·77	— 0·36	0·41	1·05	— 0·64	0·14	Poo.
...	...	...	...	...	...	...	...	...	...	...	3	+ 0·5	0·75	1·05	— 0·30	0·75	1·45	— 0·70	0·40	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	...	...	2·0	...	1	— 1·9	0·42	1·25	— 0·83	0·42	1·54	— 1·12	0·42	Pishin.

Table

Abstract of observations taken at 8 hrs. at 61 fourth and

Number of sub-division.	Station.	Temperature of air.													Wind direction.										
															Number of winds from										
		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.	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.																								
	Chumbi	...	...	44·7	...	33·1	...	38·9	...	11·6	50·5	8th	29·2	24th	...	...	...	...	...	...	...	...	...	...	...
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Abadan	51·1	46·8	62·5	...	42·6	...	52·5	...	19·9	71·0	10th	30·0	2nd & 3rd.	0	9	0	0	3	8	1	2	7	(a) N 6° W	...

(a) 1 wind variable.

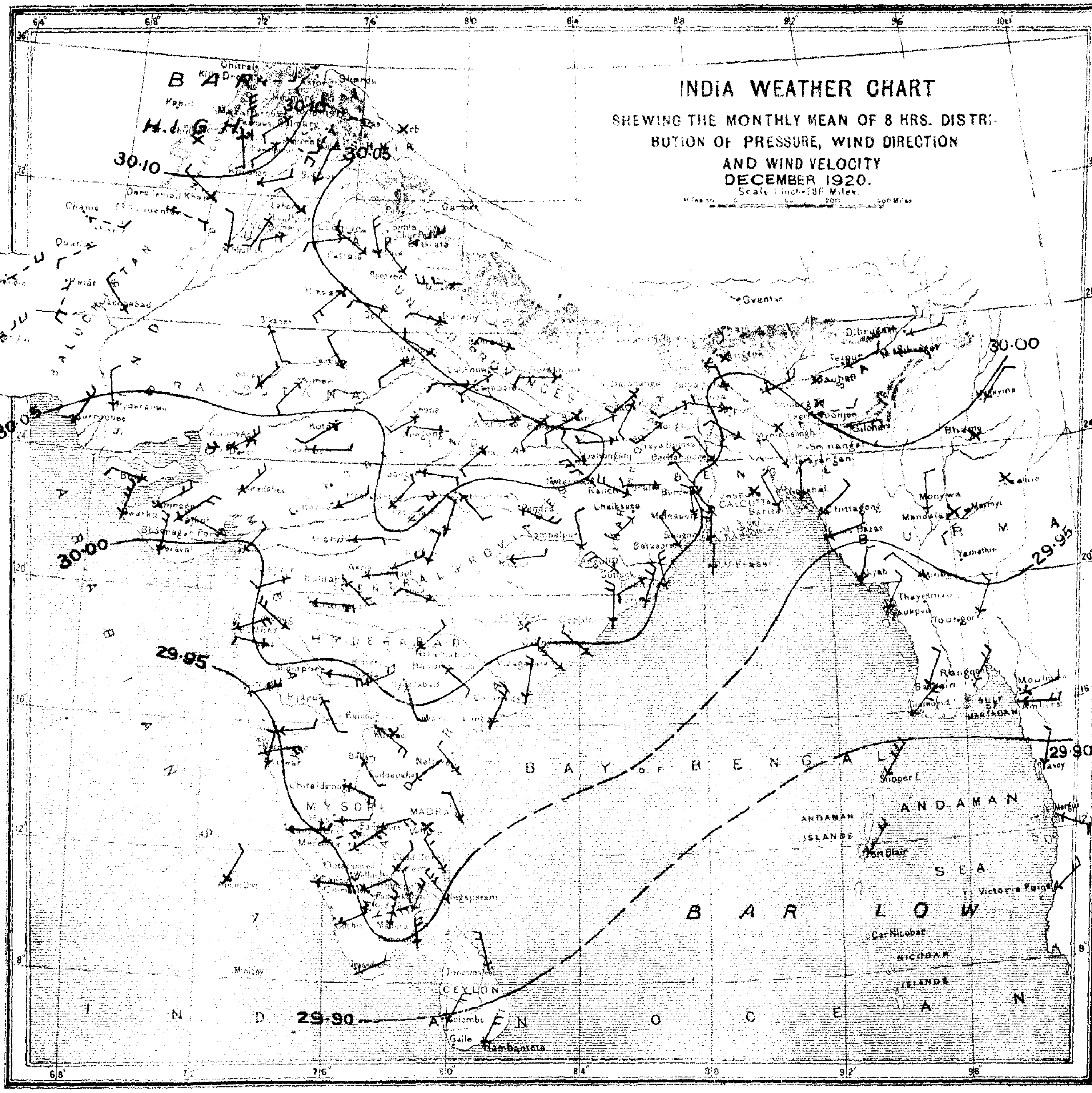
C—*concluded.*

fifth class stations in India, etc., in December, 1920—*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 Nov. to 31st Dec. 1920.	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.
...	...	...	...	...	...	...	...	...	1·5	...	0	−0·6	0	0·11	−0·11	* 0	0·26	−0·26	0	Chumbi.
...	...	...	...	...	...	...	...	...	...	...	15	+4·9	7·52	6·88	+0·64	11·35	14·59	−3·24	1·20	Pemba.
...	...	...	20	...	73	...	·263	...	...	...	5	...	1·39	..	...	1·44	...	...	0·47	Abadan.

* Rainfall for November wanting.

SGPI-II-IV-5-(22)-5-4-23-325.

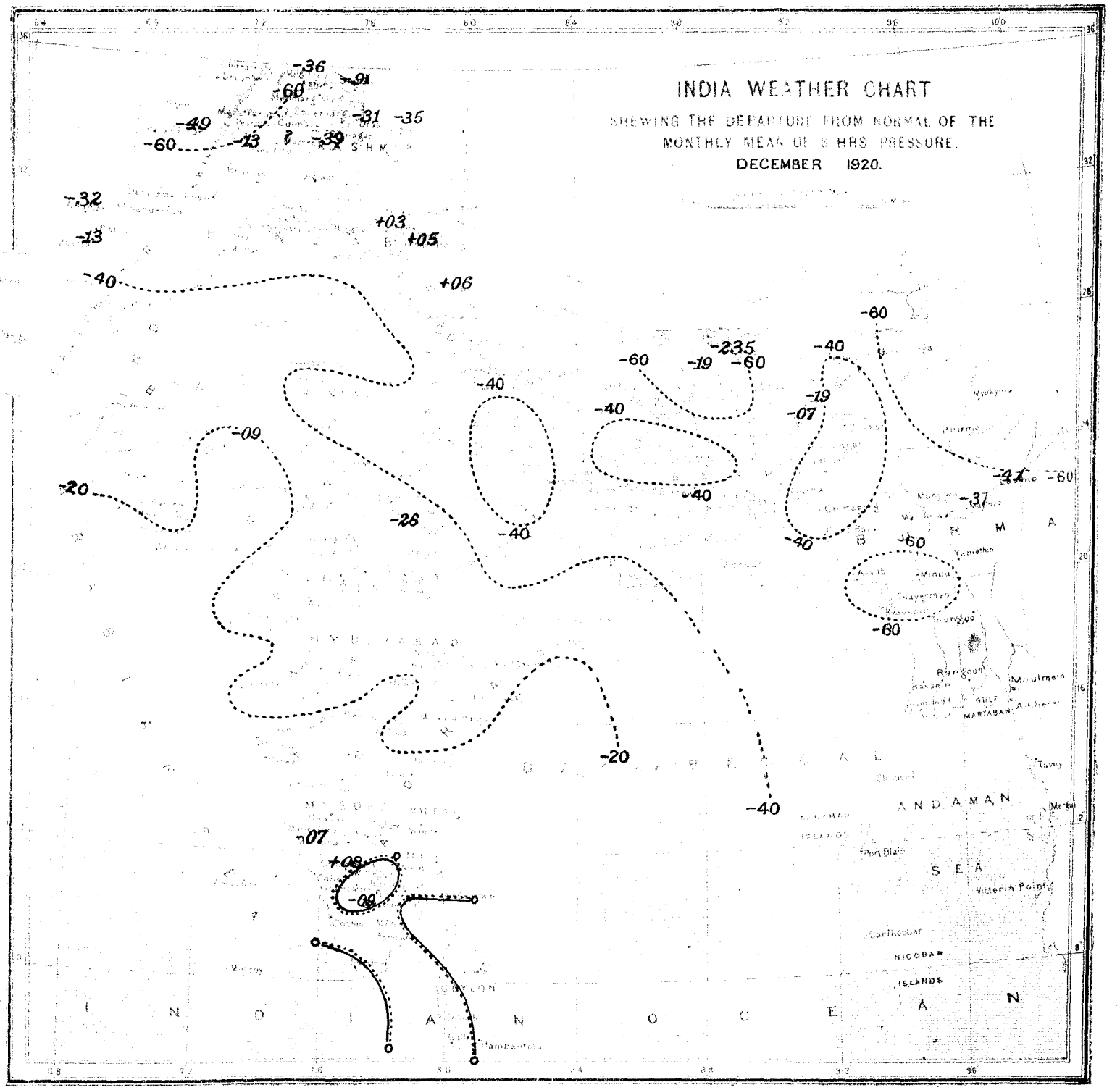


The lines of the above chart represent isobars or lines of equal barometric pressure, the numbers attached indicating the barometric pressure in inches and being drawn for differences of pressure of ·05 inch. The isobars in the Bay of Bengal are filled in by means of the shore observations, and by comparison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

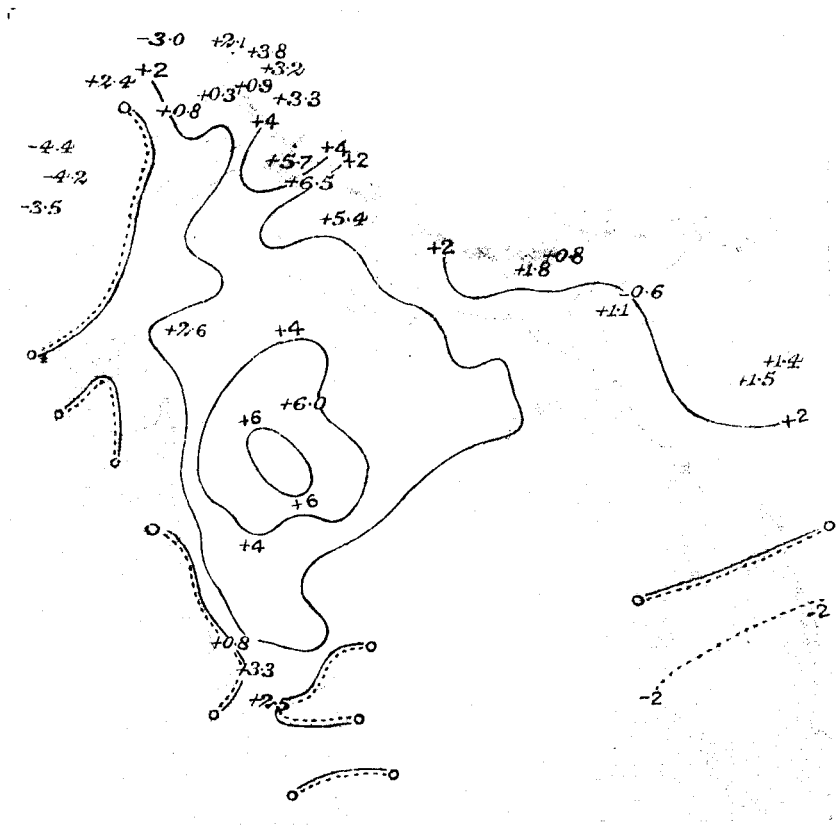


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF DAILY MINIMUM TEMPERATURE.

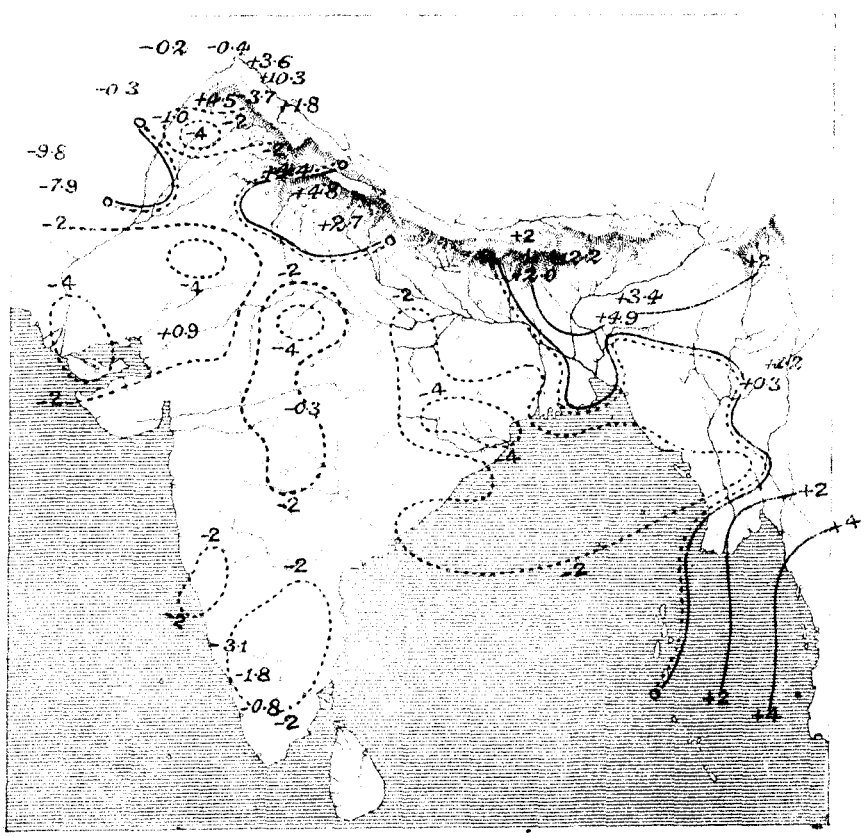


CHART SHEWING THE DEPARTURE FROM NORMAL
OF THE MONTHLY MEAN OF DAILY
MEAN TEMPERATURE

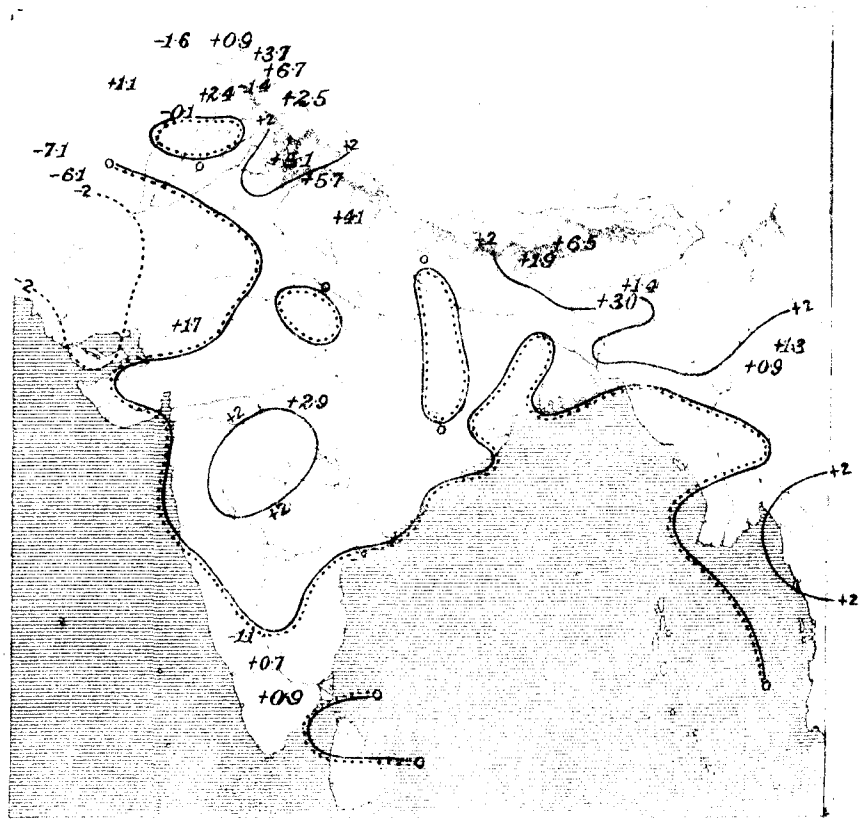


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF ABSOLUTE HUMIDITY AT 8 HRS.

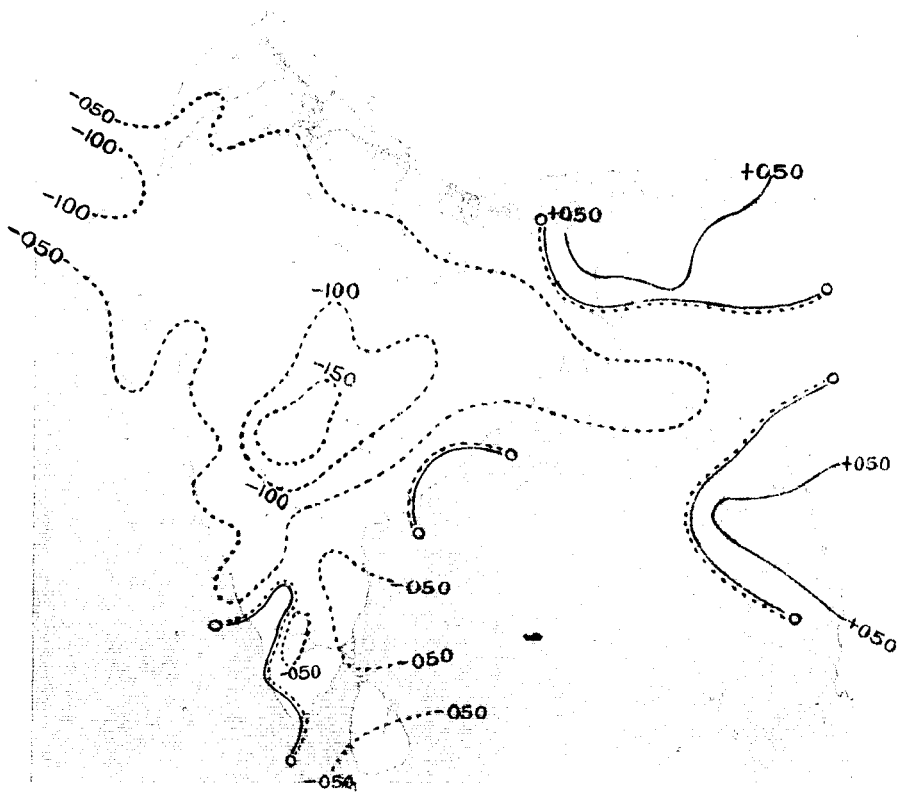


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF RELATIVE HUMIDITY AT 8 HRS.

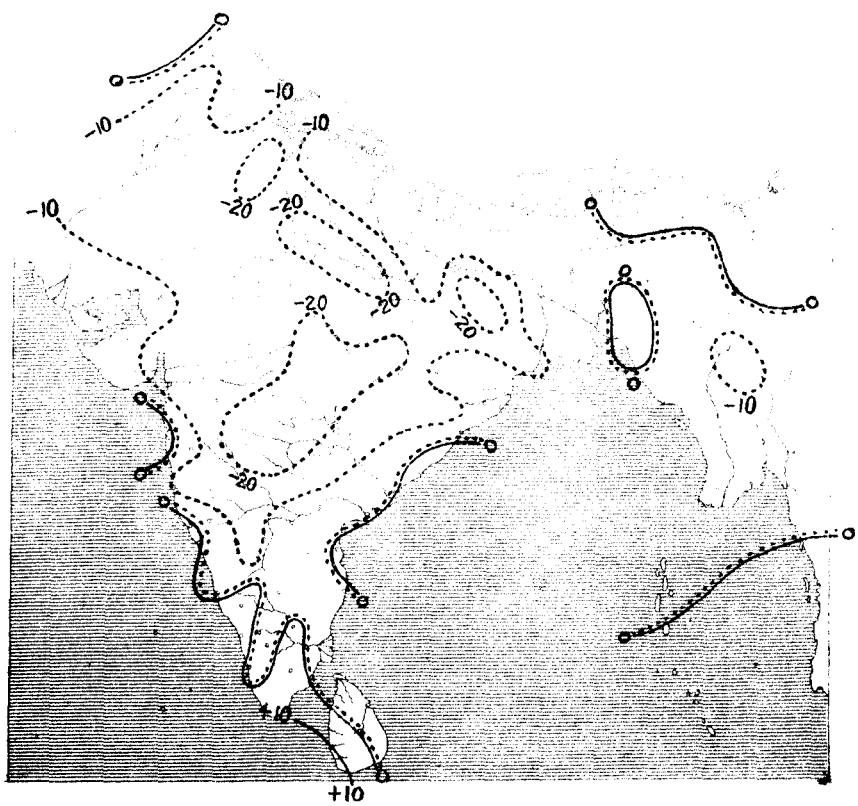


CHART SHEWING THE DEPARTURE FROM NORMAL OF THE MONTHLY MEAN OF CLOUD AMOUNT AT 8 HRS.

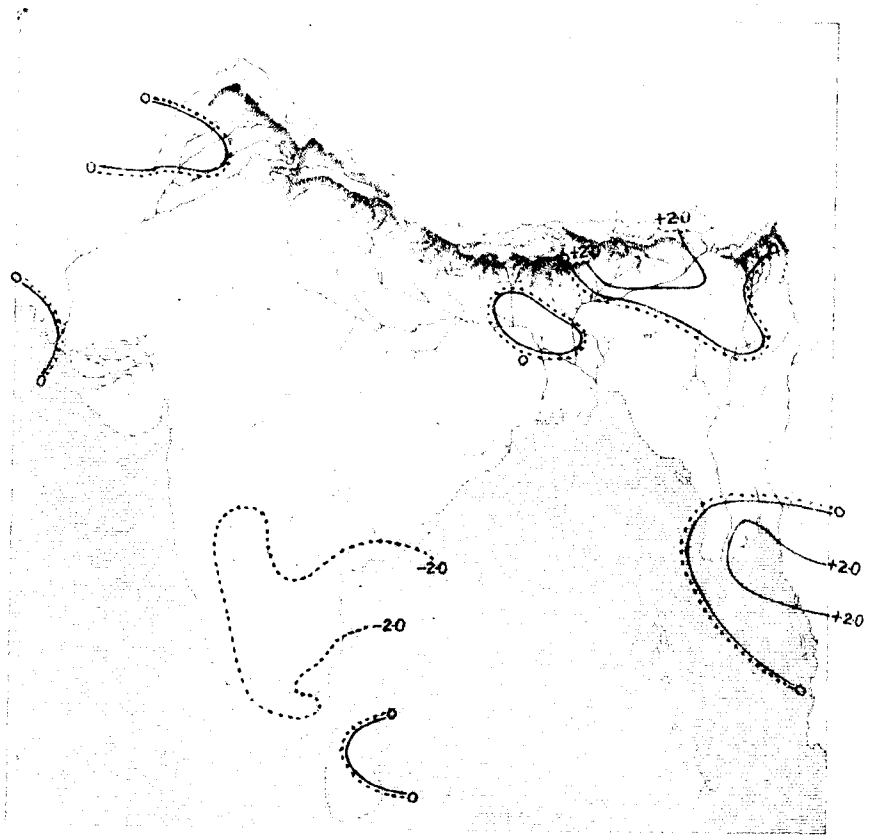
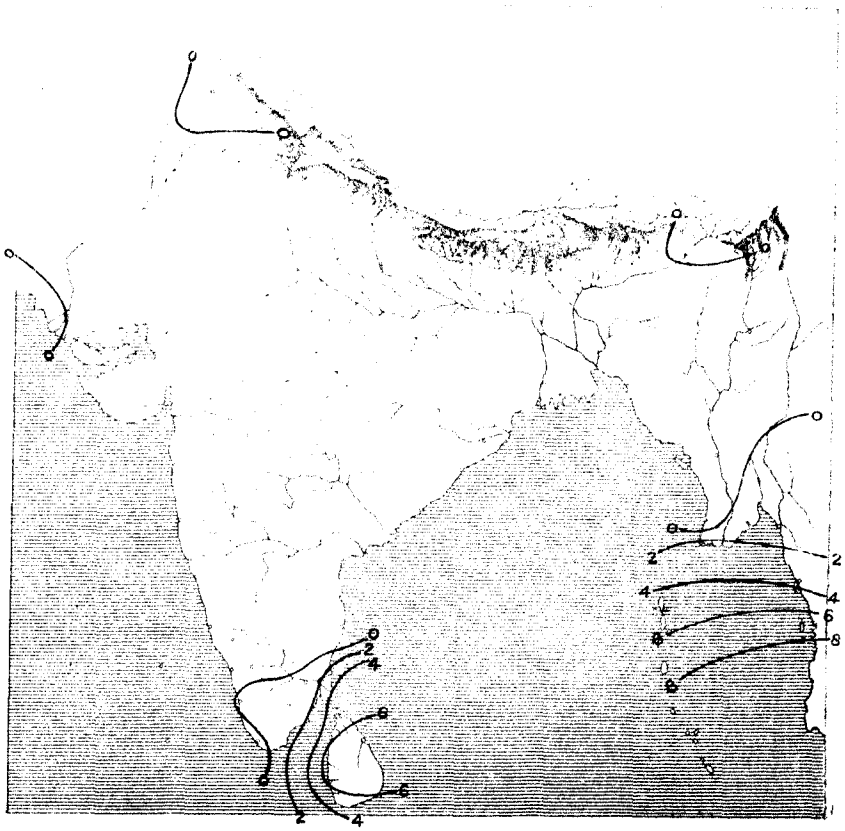
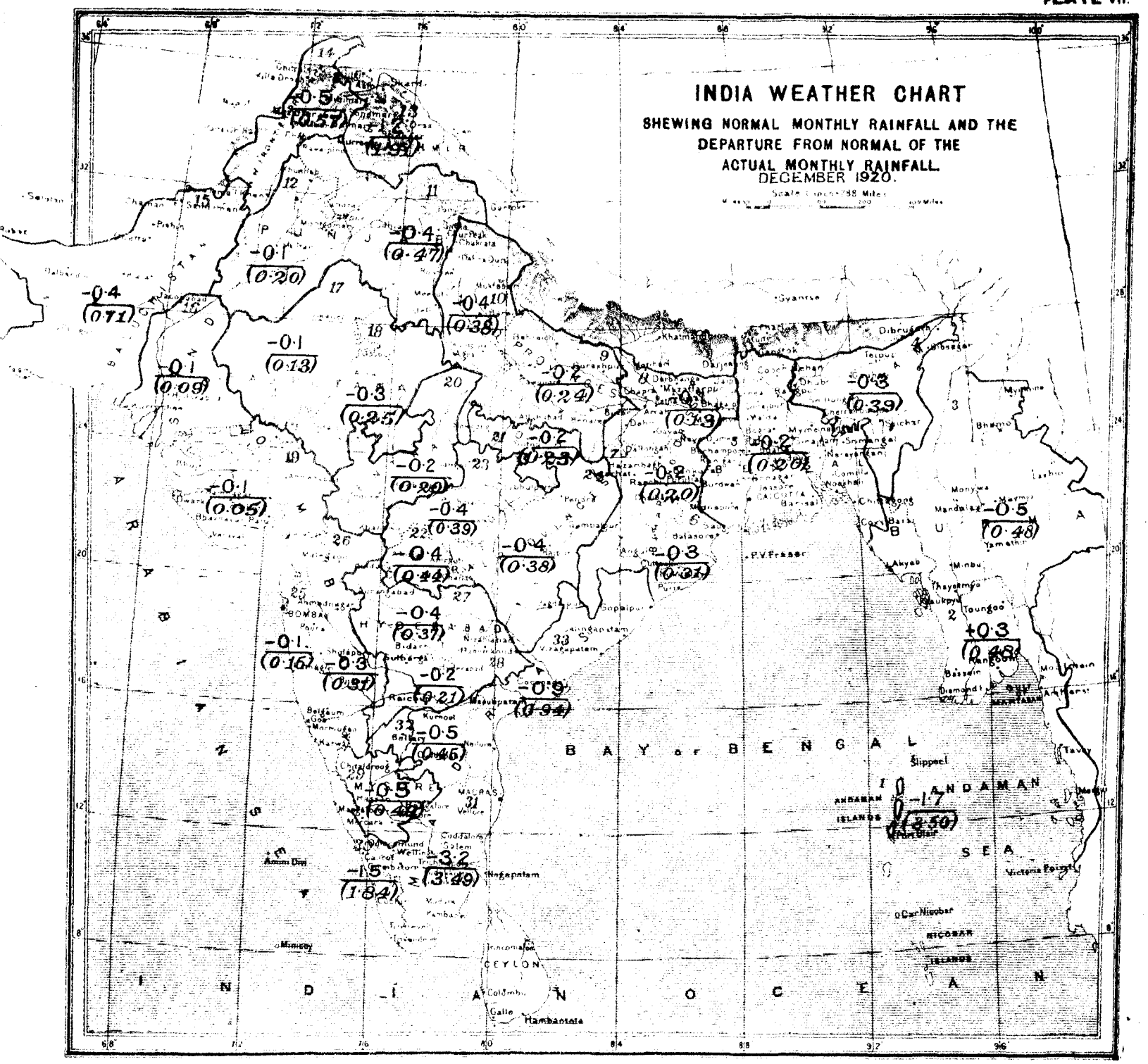


CHART SHEWING THE TOTAL NUMBER OF DAYS IN THE MONTH ON WHICH RAINFALL EQUALLED OR EXCEEDED 0·10 INCH.

(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