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THE INDIA WEATHER REVIEW.

FOR THE YEAR

1915.

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UNDER THE DIRECTION OF

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

CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1917

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

INDIA WEATHER REVIEW.

ANNUAL SUMMARY, 1915.

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ANNUAL SUMMARY, 1915.

INTRODUCTION.

THE present account of the meteorology of 1915 is based on revised data and is intended primarily for scientific reference ; for those needing prompt information the Annual Supplement to the India Daily Weather Report was issued on January 10, 1916.

Several systems of territorial division of India have come into use from time to time for meteorological purposes, each having been adopted to meet the needs of some particular set of data. A certain amount of confusion had been found to result from the consequent want of uniformity of boundaries, and, with a view of obviating the inconvenience caused, the Government of India in 1907 authorised the adoption of the following system of division :—

Chief political divisions.	Sub-divisions.
	Bay Islands.
Burma	Lower Burma.
	Upper Burma.
Eastern Bengal and Assam	Assam.
	Eastern Bengal.
Bengal	Bengal.
	Orissa.
	Chota Nagpur.
	Bihar.
United Provinces	United Provinces, East.
	United Provinces, West.
Punjab	Punjab, East and North.
	Punjab, South-west.
North-West Frontier Province	North-West Frontier Province.
	Baluchistan.
Sind	Sind.
Rajputana	Rajputana, West.
	Rajputana, East.
Bombay	Gujarat.
	Konkan.
	Bombay Deccan.
Central India	Central India, West.
	Central India, East.
Central Provinces	Berar.
	Central Provinces, West.
	Central Provinces, East.
Hyderabad	Hyderabad, North.
	Hyderabad, South.
Mysore	Mysore.
Madras	Malabar.
	Madras, South-east.
	Madras Deccan.
	Madras Coast, North.

From the 1st April 1912 a fresh territorial division of Eastern Bengal and Assam and Bengal was sanctioned by which Eastern Bengal was restored to Bengal, while Orissa, Chota Nagpur and Bihar were constituted into a separate province under the name of Bihar and Orissa. The present arrangement is shown below :—

Chief political divisions.	Sub-divisions.
Assam	Assam.
Bengal	Bengal.
Bihar and Orissa	Orissa.
	Chota Nagpur.
	Bihar.

In the present review the new division has been adopted throughout.

The system of division is illustrated in Plate I at the end of this Annual Summary, and its relationship to the old system of divisions which was adopted for the tables of the 'Geographical Summary' given in former issues can be obtained by reference to pages 9 to 14 of Volume III of the Indian Meteorological Memoirs.

The data of Table B in the monthly reviews and in the present annual part are obtained, with a few exceptions, from the observations telegraphed daily to Simla for publication in the Daily Weather Report. The maximum and minimum temperature data of the second class observatories derived from these telegraphic reports and given in Table B, occasionally differ to some slight extent from the corresponding means in Table A. The chief reason for this is that in Table B the daily or 24-hour period is assumed to end at 8 hrs. and in Table A at midnight [except for rainfall

the period of which ends at 8 hrs.], and hence the maximum temperature in Table B for any month of 31 days at any station gives the mean for 31 periods of 24 hours ending at 8 hrs. of the 31st and in Table A for the same number of 24-hour periods ending at midnight on the 31st, and virtually, therefore, of a monthly period one day in advance of the former. Similarly for months of 28, 29, or 30 days.

SOLAR AND MAGNETIC ACTIVITY.

Report from Kodaikanal Observatory.

The following table gives the number of observations made at Kodaikanal during each month of the year :—

TABLE 1.

SOLAR OBSERVATIONS IN 1915.

—	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
A	30	28	31	30	31	25	22	30	29	31	28	23	338
B	4	11	8	4	3	1	4	0	0	2	0	0	37
C	29	25	31	30	31	19	14	21	19	26	18	21	284
D	29	28	31	27	30	18	...	...	...	...	...	...	163
E	30	28	31	30	31	26	20	26	25	30	25	28	325

A=Disc examined. B=Spot spectrum observed. C=Prominences photographed. D=Photoheliograms taken. E=Spectroheliograms taken.

Although more observations than in normal years were made in October, the year on the whole was not more favourable than previous years. The photoheliograph was dismounted on June 19, the Photo-visual object glass and other optical parts being required for work in Kashmir.

Summary of Sunspot and Prominence Observations.

Sunspots.—The following table shows the monthly numbers of new groups observed at Kodaikanal, the mean daily numbers of spots visible and the distribution between the northern and southern hemispheres :—

TABLE 2.

—	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
New groups	18	18	18	18	14	18	14	17	12	17	19	15	198
Daily number	2·4	3·3	3·7	3·1	3·2	3·0	3·5	3·1	3·0	3·2	3·2	3·1	3·2
North	15	10	12	7	10	8	6	10	5	13	12	6	114
South	3	8	6	11	4	10	8	7	7	4	7	9	84
Equator	...	...	...	...	...	...	...	...	...	...	...	...	...

There is again a marked increase in spot activity compared with last year in accordance with the usual progress of a new spot cycle. The daily number of spots in each month has been fairly constant since January.

For the first time since 1906 there has been a preponderance of spots in the northern hemisphere.

Prominences.—The increase in solar activity during 1915 is more marked in prominence areas than in sunspots. The mean areas obtained from the photographs for 1915 and those of 1914 for comparison are given in the table below:—

TABLE 3.

Mean daily Profile areas of Prominences in square minutes of arc.

—	1914	1915
North	1·50	2·60
South	1·60	2·68
Total .	3·10	5·28

There is only a slight preponderance in the southern hemisphere. The zone of greatest activity is again between latitudes 45° and 60°.

Metallic prominences have also been more frequently observed than in 1914; forty-five were recorded as against seventeen last year.

There has also been an increase, on the whole, in the number of displacements in prominences at the limb, though fewer than would have been expected were seen in the second half of the year.

T. ROYDS,

for *Director*,

Kodaikanal and Madras Observatories.

Report from the Bombay Observatory.

During the year there were 133 calm days, 217 days of small, 13 days of moderate and 2 days of great disturbance, showing in comparison with figures of the last year a decrease in the number of calm days by 8 and an increase in the number of moderately disturbed days by 6. Two great disturbances were recorded during the year as against no such disturbance in the preceding year. On the whole hence a rapid development of magnetic activity is thus indicated.

Of the two great disturbances, the one recorded on the 17th June was very heavy. At 17 h. 50 m. on the 16th, a small disturbance was noted with a sharp rise in H. of about 13γ. No large movements, however, were marked and the conditions continued practically as in a small disturbance until 6 h. 35 m. the next day, when the heavy disturbance under consideration commenced with a sudden further rise of H. The movements here disclosed were of the usual type of short-period oscillations characteristic of an increasing disturbance, which carried H. to the critical maximum value, raising it by 78γ to 0·36951 C.G.S. unit at 11 h. 29 m. The climax having thus been reached, effects of sudden demagnetisation followed as is usual in such disturbances, when H. is raised to an abnormally high value. A rapid fall in H. ensued thereafter and by 16 h. 15 m. showed a heavy defect of 439γ from the highest point reached a few hours back. By this time the disturbance seemed apparently to have spent its force, and restitution effects supervening, H. began to rise rapidly at first with short-period movements, and slowly thereafter in large-period movements. Normal conditions, however, were not re established before 15 h. on the 18th. The day, which was thus heavily disturbed, was immediately followed, as is not unusual, by a 'quiet' day, the effects of which raised the daily mean lowered by disturbance effects back again to its normal value of the season.

The declination and vertical force traces as is usual in a station like Alibag were not heavily affected as in the H. element. The maximum ranges in the amplitude measured were 10·5 minutes in the former element and 70γ in the latter.

The second disturbance, which occurred on November 5th, commenced about 19 h. 29 m. While in the first disturbance rapid demagnetisation effects supervened within 5 hours of the commencement, in the latter disturbance the climax was not reached before nearly 14 hours had elapsed after the commencement. During the interval the value of H. was forced up slowly to the critical point, and though the trace was disturbed as usual by short-period movements they were not heavy in character. The highest point in the trace reached—0·36929 C. G. S.—was at 9 h. 35 m. on the 6th, after which the force fell, but not so rapidly as in the first disturbance, to 0·36690 C. G. S. at 16 h. 25 m. Nearly normal conditions were established after 8 hours at about 0 h. on the 7th.

It will be noted that in the first disturbance, as already remarked, rapid demagnetisation effects supervened within five hours of the commencement and were incident at about 11·5 h. The general progress of the disturbance thus fell concurrent with the diurnal run of the magnetic variation, accentuating both the initial rise and the subsequent fall of H. On the other hand, the second disturbance, which commenced at 19·5 h. was not so favourably placed in regard to the position of the Sun and the local run of the diurnal variation. The adverse effects of these conditions are apparent thus in the general run of the disturbance, the total rise and fall of H. being only 239γ as against 439γ of the previous disturbnce.

TABLE.—*Smoothed summed range* of Horizontal Force.*

(*Continuation of table 536 in the Colaba Magnetic Data, 1846—1905.*)

Unity = 1γ ≡ 0·00001 C.G.S.

TABLE 4.

Months.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1905	294	295	297	300	307	311	322	321	320	320	322	321	311
1906	318	316	314	312	304	294	295	299	301	302	301	301	305
1907	300	299	305	310	315	323	**326**	323	318	314	313	314	313
1908	317	320	314	308	306	301	298	294	293	294	296	295	303
1909	289	284	290	296	297	301	302	301	298	289	280	274	292
1910	272	272	263	254	252	247	244	244	245	244	244	243	252
1911	239	234	230	227	223	217	212	207	203	203	**202**	202	216
1912	204	205	204	205	208	211	215	219	222	223	223	224	214
1913	223	224	226	225	222	221	221	220	219	220	222	224	222
1914	226	229	231	231	233	234	235	238	242	246	251	257	238
1915	264	268	274	282	288	290	288	288	294	300	303	303	287

* The summed range figures are the sums without regard to sign of the twenty-four ordinates of the diurnal inequality. Smoothed ranges are derived from running means of twelve consecutive monthly values reduced to the proper epoch so as to eliminate the annual variation.

The smoothed monthly range figures of H. at Alibág as given above also show a corresponding fairly rapid rise to a maximum in the secular activity as affected in the main by the 11-year period.

The following table, prepared in accordance with the suggestions made by the International Commission, Terrestrial Magnetism, represents the magnetic character of each day during the year :—

TABLE 5.—*Table representing the magnetic character of the day during the year 1915.*

1915.	MONTH.											
Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1 . .	1	0	0	1	1	0	0	1	0	1	2	0
2 . .	0	1	0	1	1	0	1	1	0	0	1	0
3 . .	0	0	0	1	1	0	1	1	0	1	1	0
4 . .	1	0	0	1	1	0	0	1	0	0	0	0
5 . .	1	1	0	0	1	0	0	0	1	0	1	0
6 . .	1	1	1	1	1	0	1	1	0	0	2	2
7 . .	1	0	1	1	0	0	0	1	0	1	1	1
8 . .	1	1	1	2	0	1	1	1	0	1	1	1
9 . .	1	1	1	1	0	1	1	1	0	0	0	0
10 . .	0	1	1	0	0	0	1	1	1	1	1	1
1 . .	0	0	1	1	0	0	1	1	1	1	1	1

TABLE 5—*concld.*

1915. Date.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
12 . .	0	1	0	0	1	1	1	1	1	0	1	1
13 . .	1	1	0	0	1	1	0	0	1	0	0	0
14 . .	1	0	0	1	1	1	0	0	0	2	0	1
15 . .	0	1	0	1	1	0	0	0	0	2	1	1
16 . .	0	0	0	1	1	1	0	0	1	1	2	1
17 . .	0	0	1	1	1	2	0	1	1	1	1	1
18 . .	1	0	1	1	1	2	0	1	0	1	2	0
19 . .	0	1	1	1	0	0	0	1	1	2	1	0
20 . .	1	1	1	1	1	0	0	1	0	2	1	1
21 . .	1	1	1	1	1	1	0	1	1	1	1	0
22 . .	1	1	1	1	1	1	1	1	1	1	1	0
23 . .	0	1	1	1	1	1	0	1	2	2	1	1
24 . .	0	1	1	0	0	0	0	0	1	1	0	1
25 . .	1	1	1	0	1	1	1	1	1	1	0	1
26 . .	1	1	1	2	0	1	1	1	1	1	1	1
27 . .	1	0	1	1	1	1	1	1	1	1	1	1
28 . .	1	0	1	0	1	0	1	1	1	0	1	1
29 . .	0	...	0	0	0	1	1	1	1	0	0	0
30 . .	1	...	1	0	0	0	1	1	1	1	0	0
31 . .	0	...	1	...	1	...	1	1	...	1	...	0
Sum .	18	17	20	23	21	17	16	25	19	27	26	18

In the above table 0 represents calm day.
" 1 " small disturbance.
" 2 " larger disturbance.

The following is a list of days during the year 1915 selected as "quiet" from the Alibág records, as suitable locally for the determination of the magnetic diurnal inequalities :—

TABLE 6.

Months. 1915	Selected quiet days.				
January	3	11	16	19	31
February . . .	3	7	14	16	28
March	4	13	14	15	29
April	5	10	13	24	25
May	7	9	11	24	29
June	3	7	15	24	28
July	4	13	16	20	24

TABLE 6—*concld.*

Months. 1915	Selected quiet days.				
August	5	14	15	16	24
September . . .	8	14	15	18	20
October	2	6	13	28	29
November . . .	4	9	14	24	25
December . . .	1	5	18	22	31

The mean values of the magnetic elements obtained from all days in the year 1915 are as follows :—

Mean Easterly Declination . . . . 0° 40′ 39″
" Horizontal Force . . . . . 0·36870 c.g.s.
" Vertical Force (standardised by the Inductor) 0·1688 c.g.s.
" Inclination by the Inductor . . . 24° 21′·1

The following table gives the corrected monthly mean values of the several magnetic elements as also the summed ranges of the Horizontal Force :—

TABLE 7.

1915.	Absolute values of					
Months.	Horizontal Force.	Vertical Force.	Inclination.	Easterly Declination.	Summed Ranges	Summed Ranges (smoothed).
			° ′	° ′ ″		
January . .	0·36881	0·16648	24 17·7	0 42 13	0·00214	0·00264
February . .	0·36873	0·16651	24 18·2	0 42 0	0·00243	·00268
March . .	0·36876	0·16658	24 18·6	0 41 40	0·00288	·00274
April . .	0·36877	0·16665	24 19·1	0 41 28	0·00355	·00282
May . .	0·36884	0·16668	24 19·1	0 41 15	0·00313	·00288
June . .	0·36863	0·16683	24 21·0	0 40 46	0·00364	·00290
July . .	0·36872	0·16694	24 21·6	0 40 34	0·00356	·00288

TABLE 7—*concld.*

1915.	Absolute values of					
Months.	Horizontal Force.	Vertical Force.	Inclination.	Easterly Declination.	Summed Ranges.	Summed Ranges (smoothed)
			° ′	° ′ ″		
August . .	0·36867	0·16696	24 21·9	0 40 13	0·00276	·00288
September . .	0·36867	0·16711	24 23·0	0 39 55	0·00294	·00294
October . .	0·36861	0·16722	24 24·1	0 39 40	0·00313	·00300
November . .	0·36854	0·16721	24 24·3	0 39 18	0·00265	·00303
December . .	0·36867	0·16738	24 25·1	0 38 50	0·00196	...

N. A. F. MOOS,

Director, Bombay and Alibág Observatories.

Solar Radiation.

The following table shows, in absolute measure, the value of solar radiation as measured at Simla by means of Angstrom's electric compensation pyrheliometer :—

TABLE 8.

1915.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum.	Minimum.	Mean.	
January	1·50	1·45	1·47	4
February . . .	1·54	1·38	1·46	6
March	1·48	1·44	1·46	2
April	1·48	1·42	1·45	3
May	1·46	1·37	1·42	2

TABLE 8.

1915.	Intensity in gramme-calories per sq. cm. per min.			Number of days of observation.
	Maximum.	Minimum.	Mean.	
June		No observations.		
July		No observations.		
August		No observations.		
September . . .		No observations.		
October	1·50	1·46	1·48	2
November . . .	1·52	1·41	1·46	10
December . . .	1·47	1·42	1·44	5

Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are, as a rule, not very reliable, were recorded during the year 1915, at the following stations—

Srinagar. Jodhpur. Bombay.
Lahore. Calcutta (Alipore). Simla.

The following Table 9 gives the average data of past years for the above stations ; and Table 10 the departure from the normal.

TABLE 9.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean monthly and annual minimum shade temperatures.*

STATION.	Number of years observations used.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Srinagar . . .	17—22	8·7	9·0	10·1	10·5	11·4	11·4	11·4	11·2	12·4	12·0	11·4	11·1	10·9
Simla . . .	23—24	4·2	3·7	3·8	5·5	4·6	3·9	3·1	2·4	3·9	5·2	5·1	4·9	4·2
Lahore . . .	38—39	9·6	9·3	8·9	9·3	9·1	6·4	4·1	4·2	6·6	9·8	10·7	10·1	8·2
Jodhpur . . .	18—20	8·8	8·8	8·7	8·3	5·6	2·8	2·3	2·3	4·7	9·3	10·9	10·0	6·9
Calcutta (Alipore) .	38—39	7·3	6·8	5·8	4·4	3·1	2·1	1·9	1·9	2·5	4·3	6·5	7·7	4·5
Bombay . . .	40	9·4	8·8	7·9	6·3	4·5	2·9	2·3	2·6	3·2	6·1	9·1	9·9	6·1

TABLE 10.—*Departures from the averages of Table 9 of mean monthly and annual depression of nocturnal radiation temperatures in 1915.*

STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Srinagar	+2·1	+2·0	+2·4	+2·0	+2·3	+1·9	+2·5	+3·8	+0·8	+1·9	+1·8	—1·1	+1·9
Simla	+0·1	—0·3	+0·5	—0·5	+1·7	+1·3	+0·4	+0·8	+1·1	+1·8	+3·0	+1·6	+1·0
Lahore	—0·3	—0·3	+0·4	—0·4	—0·4	+0·6	+0·4	+0·1	—1·4	—1·0	0	—0·6	—0·2
Jodhpur	+3·7	+2·9	+3·1	+1·8	+0·9	+1·5	+3·7	+0·4	—1·7	+0·6	—0·7	—3·3	+1·1
Calcutta (Alipore) . . .	+0·1	+2·4	+1·5	+3·3	+1·9	+2·1	+1·9	+1·4	+1·1	+1·0	—1·1	+2·7	+1·5
Bombay	—0·9	+0·2	+0·7	+0·7	+0·5	+0·7	+1·4	+1·5	+0·7	—0·5	—1·4	—2·5	+0·1

Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1915 at four stations, Lahore, Jaipur, Calcutta (Alipore) and Bombay; and of the temperature under ground at Bombay only.

The thermometers used for the purpose are verified standard mercurial thermometers with attached scales of porcelain, the scale being engraved also on the tube.

At Lahore the surface thermometer is read four times daily; at Jaipur at 10 and 16 hrs., and at Calcutta at 13 hrs. 45 mins. At Bombay the two nearest to the surface are read five times a day, the deeper instruments being read once only.

The thermometers below the surface have their bulbs protected with pointed copper shoes which rest on ground at the bottom of a wooden tube, inserted to the specified depth and projecting six inches above the surface, the upper ends being closed by a cap of metal or wood. Those at depths of five feet or more are attached to the lower ends of stout wooden bars of about half the diameter of the tube.

Those at one foot have a brass ring attached to the top of the wooden frame by which they are lifted; and in all these the lower part of the frame around the bulb has been cut away, and the lower end fitted with the copper shoe above mentioned.

The average monthly data are here given at length, but a paper published by Mr. R. L. Jones (Meteorological Memoirs, Vol. XV, Pt. III, 1904), makes it clear that the results of the measurement of underground temperatures lead to inconsistent results when analysed on the lines developed by Lord Kelvin. It may be that this is due to irregularities from percolation of rainfall as well as to imperfections in the mode of measurement.

Under these circumstances a table of departures from the average of past years is more likely to give indications of value than a statement of absolute temperatures recorded; such a table is therefore given below. The number of years included in the averages in the different cases lies between 21 and 27.

TABLE 11.—*Depression from normal of the mean monthly and annual temperatures of the air and of the ground in 1915.*

Station.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
LAHORE	Air	+1·1	−0·4	+1·3	+0·4	+7·0	+1·6	+6·2	+5·5	+2·0	+1·1	+0·7	−0·5	+2·2
	Surface	+1·5	0	+3·6	+3·0	+8·4	+2·0	+7·3	+6·2	+1·4	+3·5	+5·2	+1·9	+3·7
JAIPUR	Air	−0·3	−2·8	−0·3	−1·8	+2·9	+3·2	+5·2	+1·5	+4·1	+4·0	+0·4	+1·3	+1·5
	Surface	−0·4	−6·7	−7·6	−4·8	+1·0	+4·9	+6·7	+0·7	+1·8	+1·7	+3·0	+1·0	+0·1
CALCUTTA (ALIPORE)	Air	+1·7	+0·4	−1·1	+1·1	+1·0	+0·5	+1·8	+2·2	+0·4	+3·1	+4·5	+0·8	+1·4
	Surface	+3·2	+3·6	−6·0	+3·3	−2·7	−1·8	+0·6	−0·4	−1·6	−3·6	+2·0	+13·3	+0·8
BOMBAY	Air	+0·6	−0·3	+0·4	+1·3	+1·5	+1·7	+1·7	+1·1	+1·0	+0·2	+1·9	0	+0·9
	1 inch deep	+0·3	−0·8	+0·1	+0·9	+1·3	+1·7	+1·6	+1·0	+1·2	+0·3	+1·7	−0·1	+0·7
	9 inches deep	−0·1	−0·7	−0·6	0	+0·7	+1·6	+1·3	+1·1	+1·4	+1·2	+2·3	+1·0	+0·8
	1 foot 8 inches deep	+0·5	+0·3	−0·1	+0·4	+1·1	+2·0	+1·5	+1·4	+1·8	+1·5	+2·4	+2·3	+1·3
	5 feet deep	+0·9	+0·6	+0·5	+0·4	+0·3	+0·8	+1·0	+0·9	+1·1	+1·0	+1·0	+1·3	+0·8
	11 feet deep	+0·4	+0·3	+0·3	+0·4	+0·1	0	−0·5	−0·5	0	+0·5	+0·5	+0·5	+0·2

Temperature.

The methods of exposing the thermometers at observatories in India were described in pages 18-19 of the Annual Report for 1890.

The method of deducing the daily and monthly means from the observed reading of the instruments was described in page 7 of the Monthly Weather Review for January 1915.

The departures from normal of the mean temperature of each month given in Table A of the Monthly Weather Reviews are deduced by a comparison of the actual monthly means with the normal monthly means given in the "Indian Meteorological Memoirs," Volume XVII, pages 16 to 24.

The departures obtained by a comparison of these normal means with the actual monthly means in Table A of the Monthly Weather Reviews for the year are given in Table 12.

In Table B, published in each Monthly Review, the mean temperature of the day is calculated, as in the Daily Weather Report, by the formula:—daily mean $= \frac{\text{maximum} + \text{minimum}}{2}$. It differs from the true daily mean by amounts varying slightly with the season. In Table B of the Monthly Weather Reviews of the year 1915 are given the departure from normal of the monthly means of daily maximum and minimum temperatures, as well as the departures of the monthly means of daily mean temperature given by the formula $\frac{1}{2}$ (maximum + minimum).

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 year period 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.

Tables 13 to 18 give summaries of the temperature departure data for each month of the year 1915 and for the whole year. In the first set of tables (Tables 13, 14 and 15) the departure data are given for the 15 chief political divisions, and in the last three tables (Tables 16 to 18) the data are given for the 33 sub-divisions.

TABLE 12.—*Departure from normal of monthly and annual mean air temperatures at first and second class observatories in 1915.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		°	°	°	°	°	°	°	°	°	°	°	°	°
BENGAL	Calcutta	+1·7	+0·4	—1·1	+1·1	+1·0	+0·5	+1·8	+2·2	+0·4	+3·1	+4·5	+0·8	+1·4
PUNJAB	Lahore	+1·1	—0·4	+1·3	+0·4	+7·0	+1·6	+6·2	+5·5	+2·0	+1·1	+0·7	—0·5	+2·2
RAJPUTANA	Jaipur	—0·3	—2·8	—0·3	—1·8	+2·9	+3·2	+5·2	+1·5	+4·1	+4·0	+0·4	+1·3	+1·5
BOMBAY	Bombay	+0·6	—0·3	+0·4	+1·3	+1·5	+1·7	+1·7	+1·1	+1·0	+0·2	+1·9	0	+0·9
MYSORE	Bangalore	+2·7	+2·6	+0·7	+0·6	+1·0	+1·0	+1·4	+2·0	+1·7	+1·8	+1·6	—0·4	+1·4
MADRAS	Madras	+0·9	+1·4	+1·2	+0·4	+2·4	+0·8	—0·7	+1·7	+0·2	+2·4	+1·3	+0·7	+1·1
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.	Katmandu	+1·2	+1·0	—0·4	+2·6	+2·9	+0·8	+0·4	+1·5	+0·8	+5·9	+3·9	—1·7	+1·6
EXTRA INDIA	Seychelles	+1·0	+0·2	+2·6	+2·7	+2·1	+2·0	+1·0	+0·7	+1·0	+1·4	+1·4	+0·3	+1·4
	Mauritius	+0·5	+1·2	+0·9	+1·3	+1·3	+0·6	+0·5	—1·1	0	+0·3	—0·2	+0·4	+0·5

TABLE 13.—*Departure of the mean monthly and annual maximum temperature from the normal in the fifteen chief political divisions of India in 1915, as given by all observatories.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	—0·8	+1·2	—0·7	—0·7	—3·2	+0·7	+0·3	+0·8	+0·3	+0·5	+1·3	—1·9	—0·2
Assam	+2·2	+0·8	—0·5	—0·4	—2·1	—1·5	—1·3	—0·1	—0·4	+2·6	+2·4	+1·6	+0·3
Bengal	+1·2	+0·4	—1·8	+0·2	—1·2	—1·1	+0·9	+1·1	0	+1·8	+2·2	+0·6	+0·4
Bihar and Orissa	+0·7	—0·9	—1·9	0	+0·4	+1·2	+1·5	+1·3	—0·4	+0·9	+0·8	0	+0·3
United Provinces	+0·6	—3·7	—3·7	—2·6	+1·3	+1·7	+1·9	+0·2	—1·1	+1·3	+0·9	+0·9	—0·2
Punjab	+1·3	—2·1	+0·1	—1·5	+4·7	+1·3	+5·3	+4·0	+1·7	+1·3	+1·2	+1·5	+1·6
North-West Frontier Province	+1·7	—1·9	+2·6	—2·5	+7·7	+3·2	+5·7	+5·2	+3·3	+2·8	+1·4	—0·3	+2·4
Sind	+1·4	—0·2	+0·9	—1·3	+1·1	+1·8	+2·8	+1·3	+2·1	+0·9	+1·3	+0·2	+1·0
Rajputana	—0·7	—3·4	—1·1	—1·4	+2·4	+3·4	+5·5	+3·5	+6·5	+0·4	+0·3	+1·5	+1·4
Bombay	—0·6	—1·4	—1·3	—1·1	—0·1	+3·1	+2·7	+1·4	+2·0	—1·8	+1·1	—0·8	+0·3
Central India	+0·1	—2·8	—3·0	—1·9	+1·8	+4·9	+3·9	+0·3	+2·4	—0·3	+0·8	+0·6	+0·6
Central Provinces	—0·5	—1·8	—4·2	—2·2	+0·9	+5·9	+2·4	—0·6	+0·8	—1·0	+1·4	+0·1	+0·1
Hyderbad	—2·4	—1·3	—4·2	—0·9	+0·5	+4·0	+1·7	+1·0	+1·1	—1·4	+0·8	—1·4	—0·2
Mysore	+0·9	+0·7	—1·2	+0·5	+0·9	+1·5	+1·6	+1·7	+1·6	+0·9	—0·1	—1·3	+0·6
Madras	—0·6	—0·4	—1·3	+0·1	+0·8	+0·9	—0·2	+1·1	0	+1·5	+0·2	—0·5	+0·1

TABLE 14.—*Departure of the mean monthly and annual minimum temperature from the normal in the fifteen chief political divisions of India in 1915.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+2·0	+1·5	+0·4	+0·1	−0·3	+0·3	+0·5	+0·9	−0·1	+1·4	+2·0	−0·6	+0·7
Assam	+2·8	+2·3	+0·5	+0·7	+0·6	−0·3	−0·1	+0·6	−0·3	+3·6	+4·0	+1·4	+1·3
Bengal	+1·3	—0·1	−0·8	+0·2	+1·1	−0·7	+0·7	+0·9	0	+3·1	+4·6	+0·2	+0·9
Bihar and Orissa	+0·6	+0·4	+0·4	+0·3	+2·0	+0·2	+0·9	+1·2	0	+3·6	+5·5	+0·1	+1·3
United Provinces	+0·6	+0·2	+0·7	+0·8	+3·9	+0·2	+0·9	+0·3	+0·6	+4·2	+1·7	+0·1	+1·2
Punjab	—0·2	−0·5	+1·8	+1·0	+4·7	+0·7	+3·0	+2·3	+2·9	+2·1	—1·0	−1·0	+1·3
North-West Frontier Province	—1·8	−0·7	+1·8	+0·7	+5·1	—0·6	+2·5	+3·5	+4·6	+0·3	—0·9	−3·5	+0·9
Sind	—0·2	−1·0	+2·7	−0·8	+2·1	+1·5	+1·7	+1·2	+1·9	+2·9	+0·5	0	+1·0
Rajputana	+0·9	—0·8	+1·9	+0·6	+2·2	+1·1	+2·2	+1·4	+4·2	+5·8	+0·9	+1·5	+1·8
Bombay	+0·5	—0·6	+0·5	+0·2	+1·2	+1·1	+1·1	+0·9	+1·1	+1·9	+3·1	0	+0·9
Central India	+1·2	+0·3	+1·4	+0·4	+2·3	+1·9	+1·8	+0·7	+1·9	+5·1	+2·3	+0·3	+1·6
Central Provinces	+1·6	+0·2	+0·3	−0·6	+1·9	+3·2	+1·4	+0·5	+0·8	+3·8	+4·9	+0·1	+1·5
Hyderabad	+2·2	+0·5	−0·2	−0·3	0	+2·4	+1·7	+0·8	+0·6	+1·7	+5·2	−1·4	+1·1
Mysore	+2·1	+1·9	+1·4	+0·7	+0·1	+1·1	+1·0	+0·6	+1·5	+0·2	+2·9	−0·9	+1·1
Madras	+1·4	+1·0	+1·0	+0·3	+1·0	+1·5	+0·7	+1·2	+0·8	+1·2	+2·7	—0·8	+1·0

TABLE 15.—*Departure of mean monthly and annual temperature from the normal in the fifteen chief political divisions of India in 1915.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Burma	+0·6	+1·3	-0·2	−0·3	—1·8	+0·5	+0·4	+0·8	+0·1	+0·9	+1·6	—1·2	+0·3
Assam	+2·5	+1·6	0	+0·2	−0·8	−0·9	−0·7	+0·3	−0·4	+3·1	+3·2	+1·5	+0·8
Bengal	+1·3	+0·2	−1·3	+0·2	−0·1	−0·9	+0·8	+1·0	0	+2·5	+3·4	+0·4	+0·6
Bihar and Orissa	+0·7	−0·3	−0·7	+0·1	+1·2	+0·7	+1·2	+1·2	−0·2	+2·3	+3·1	0	+0·8
United Provinces	+0·6	—1·8	−1·5	−0·9	+2·6	+0·9	+1·4	+0·3	—0·3	+2·7	+1·3	+0·5	+0·5
Punjab	+0·6	−1·3	+1·0	−0·2	+4·7	+1·0	+4·1	+3·1	+2·3	+1·7	+0·1	+0·2	+1·4
North-West Frontier Province	−0·1	—1·3	+2·2	−0·9	+6·4	+1·3	+4·1	+4·3	+3·9	+1·5	+0·3	−1·9	+1·7
Sind	+0·6	−0·7	+1·8	−1·0	+1·6	+1·7	+2·2	+1·2	+2·0	+1·9	+0·9	+0·1	+1·0
Rajputana	+0·1	−2·1	+0·4	−0·4	+2·3	+2·3	+3·8	+2·4	+5·3	+3·1	+0·6	+1·5	+1·6
Bombay	0	−1·0	−0·4	−0·4	+0·5	+2·1	+1·9	+1·1	+1·5	+0·1	+2·1	—0·4	+0·6
Central India	+0·6	—1·3	−0·8	−0·7	+2·1	+3·4	+2·9	+0·5	+2·1	+2·4	+1·6	+0·5	+1·1
Central Provinces	+0·6	—0·8	—2·0	−1·4	+1·4	+4·5	+1·9	0	+0·8	+1·4	+3·2	+0·1	+0·8
Hyderabad	—0·1	−0·4	—2·2	−0·6	+0·2	+3·2	+1·6	+0·9	+0·9	+0·2	+3·0	−1·4	+0·4
Mysore	+1·5	+1·3	+0·1	+0·5	+0·5	+1·3	+1·3	+1·1	+1·6	+0·5	+1·4	−1·1	+0·8
Madras	+0·4	+0·3	−0·1	+0·2	+0·9	+1·2	+0·2	+1·1	+0·4	+1·4	+1·4	−0·7	+0·6
Mean of India	+0·6	—0·5	—0·4	—0·4	+1·2	+1·6	+1·8	+1·2	+1·2	+1·7	+1·8	—0·1	+0·8

TABLE 16.—*Departure of the monthly and annual maximum temperature from the normal in 33 sub-divisions of India in 1915.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	−0·1	+0·3	+0·4	+0·5	−0·3	+2·3	+1·1	+1·5	+1·1	−0·4	+0·1	−1·5	+0·4
2. Lower Burma	−0·4	+0·8	0	−0·9	−1·5	+2·0	+1·2	+0·9	+0·8	−0·9	+0·3	−0·3	−0·1
3. Upper Burma	−1·1	+1·6	−1·6	−0·6	−4·7	−0·7	−0·6	+0·5	−0·2	+2·1	+2·5	0	−0·2
4. Assam	+2·2	+0·8	−0·5	−0·4	−2·1	−1·5	−1·3	−0·1	−0·4	+2·6	+2·4	+1·6	+0·3
5. Bengal	+1·2	+0·4	−1·8	+0·2	−1·2	−1·1	+0·9	+1·1	0	+1·8	+2·2	+0·6	+0·4
6. Orissa	−2·0	−0·7	−0·9	+0·7	+0·6	+2·3	+1·8	+1·8	−0·9	−0·3	−0·3	−0·5	+0·1
7. Chota Nagpur	+0·7	−1·1	−2·0	+0·5	+1·4	+2·1	+2·3	+1·5	0	+1·3	+1·6	+0·3	+0·7
8. Bihar	+2·4	−1·0	−2·7	−0·9	−0·5	−0·4	+0·8	+0·6	−0·3	+1·8	+1·3	0	+0·1
9. United Provinces, East	+1·4	−3·7	−3·9	−2·5	+0·9	+1·4	+1·0	−0·3	−2·4	+0·6	+0·9	+0·6	−0·5
10. Do. do., West	−0·3	−3·8	−3·3	−2·7	+1·9	+2·0	+2·9	+0·7	+0·4	+2·1	+0·8	+1·6	+0·2
11. Punjab, East and North	+0·7	−2·7	−0·7	−1·2	+4·7	+1·2	+5·6	+4·5	+1·3	+0·9	+1·3	+1·7	+1·4
12. Punjab, South-west	+2·5	−0·6	+1·8	−2·2	+4·5	+1·5	+4·5	+2·5	+2·7	+2·3	+1·1	+0·5	+1·8
13. Kashmir	−4·4	−1·2	+1·1	+2·6	+7·3	−1·9	+2·0	+0·9	+4·5	+4·1	+3·3	+0·8	+1·6
14. North-West Frontier Province	+1·7	−1·9	+2·6	−2·5	+7·7	+3·2	+5·7	+5·2	+3·3	+2·8	+1·4	−0·3	+2·4
15. Baluchistan	+2·2	−1·5	+4·4	−4·8	+6·1	+1·9	+1·3	+3·8	+3·7	+1·2	+3·2	+1·6	+1·9
16. Sind	+1·4	−0·2	+0·9	−1·3	+1·1	+1·8	+2·8	+1·3	+2·1	+0·9	+1·3	+0·2	+1·0
17. Rajputana, West	−0·9	−1·7	+1·3	−1·1	+2·8	+3·3	+4·0	+4·1	+6·6	+0·5	0	+1·6	+1·7
18. Do., East	−0·7	−4·5	−1·9	−1·5	+2·2	+3·4	+6·5	+3·1	+6·4	+0·3	+0·4	+1·5	+1·3
19. Gujarat	−0·4	−1·8	−0·6	−1·8	−0·3	+2·3	+3·8	+2·2	+3·7	−1·8	+2·1	+0·4	+0·7
20. Central India, West	+0·1	−2·3	−1·5	−1·6	+1·9	+6·7	+5·7	+1·9	+6·0	−0·1	+1·9	+1·2	+1·7
21. Do. do., East	+0·1	−3·3	−4·5	−2·1	+1·7	+3·3	+2·1	−1·2	−1·3	−0·5	−0·3	+0·1	−0·5
22. Berar	−1·1	−0·7	−4·6	−2·5	+1·0	+6·2	+2·8	−0·8	+1·0	−1·9	+2·1	0	+0·1
23. Central Provinces, West	+0·1	−2·4	−4·3	−2·8	+0·8	+5·9	+2·4	−0·9	+1·0	−0·9	+1·4	+0·4	+0·1
24. Do. do., East	−1·5	−1·1	−3·6	−0·8	+0·9	+5·4	+2·1	+0·2	0	−0·1	+1·0	−0·3	+0·2
25. Konkan	+0·5	−1·0	−0·1	+0·4	+0·5	+1·4	+1·4	+0·9	+0·4	−1·2	0	−1·2	+0·2
26. Bombay Deccan	−1·7	−1·0	−2·9	−0·9	0	+4·9	+1·9	+0·5	+0·7	−2·1	+0·5	−1·8	−0·2
27. Hyderabad, North	−2·1	−1·2	−4·3	−1·3	+1·3	+4·3	+1·2	+0·4	+0·9	−1·4	+0·9	−1·4	−0·2
28. Do., South	−2·5	−1·4	−4·2	−0·5	+0·2	+3·8	+2·0	+1·4	+1·1	−1·3	+0·6	−1·4	−0·2
29. Mysore	+0·9	+0·7	−1·2	+0·5	+0·9	+1·5	+1·6	+1·7	+1·6	+0·9	−0·1	−1·3	+0·3
30. Malabar	+0·7	+0·1	−0·1	+0·5	+0·5	+2·0	+0·1	+0·8	+0·5	+0·3	−0·9	+0·4	+0·4
31. Madras, South-east	−0·4	−0·1	−1·2	+0·2	+1·6	+0·3	−1·2	+0·9	−0·2	+2·4	+0·9	−0·1	+0·3
32. Do. Deccan	−1·3	−0·9	−3·5	−0·4	−0·6	+2·2	+0·9	+1·6	+0·4	+0·3	−1·0	−2·5	−0·4
33. Do. Coast, North	−1·7	−1·2	−1·3	+0·1	+0·6	+0·1	+0·7	1.3	−0·4	+1·5	+0·2	−0·6	−0·1

TABLE 17.—*Departure of the monthly and annual minimum temperature from the normal in 33 sub-divisions of India in 1915.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+1·7	+2·0	+1·3	+0·4	+0·7	+1·6	+1·3	+2·1	+0·6	+0·2	+0·5	−1·5	+0·9
2. Lower Burma	+1·9	+2·3	+0·7	+0·1	+0·2	+0·7	+0·7	+1·2	+0·2	+0·5	+1·1	−1·6	+0·7
3. Upper Burma	+2·0	+0·7	0	+0·1	−0·7	−0·2	+0·2	+0·5	−0·5	+2·3	+3·0	+0·8	+0·7
4. Assam	+2·8	+2·3	+0·5	+0·7	+0·6	−0·3	−0·1	+0·6	−0·3	+3·6	+4·0	+1·4	+1·3
5. Bengal	+1·3	−0·1	−0·8	+0·2	+1·1	−0·7	+0·7	+0·9	0	+3·1	+4·6	+0·2	+0·9
6. Orissa	−0·1	−0·4	+0·5	+0·2	+1·8	+0·8	+0·6	+1·4	−0·3	+2·9	+6·4	−0·5	+1·1
7. Chota Nagpur	+1·3	+1·1	+0·7	+0·6	+3·0	+0·7	+1·3	+1·2	−0·1	+3·7	+6·0	−0·1	+1·6
8. Bihar	+0·7	+0·6	+0·2	+0·1	+1·6	−0·7	+0·9	+0·9	+0·5	+4·3	+4·4	+0·8	+1·2
9. United Provinces, East	+0·5	+1·1	+0·8	+1·0	+4·1	+0·2	+0·5	+0·3	+0·1	+4·3	+2·5	+0·2	+1·3
10. Do. do., West	+0·7	−0·9	+0·5	+0·6	+3·8	+0·2	+1·3	+0·3	+1·2	+4·0	+0·4	+0·1	+1·0
11. Punjab, East and North	−0·5	−0·7	+1·3	+0·9	+7·7	+0·2	+2·9	+2·4	+2·7	+2·2	−0·9	−1·1	+1·4
12. Punjab, South-west	+0·6	−0·1	+3·0	+1·3	+4·3	+1·7	+3·3	+2·1	+3·3	+1·7	−1·2	−0·3	+1·6
13. Kashmir	−6·7	+0·1	−1·5	+1·5	+3·3	−0·2	+0·1	+0·8	+3·4	+3·6	−0·2	−1·1	+0·3
14. North-West Frontier Province.	−1·8	−0·7	+1·8	+0·7	+5·1	−0·6	+2·5	+3·5	+4·6	+0·3	−0·9	−3·5	+0·9
15. Baluchistan	−1·2	−2·9	+5·0	+1·6	+5·9	+3·7	+1·4	+5·1	+6·1	−0·9	−1·4	−4·4	+1·5
16. Sind	−0·2	−1·0	+2·7	−0·8	+2·1	+1·5	+1·7	+1·2	+1·9	+2·9	+0·5	0	+1·0
17. Rajputana, West	+0·8	−1·1	+2·7	−0·6	+1·1	+0·3	+0·9	+1·3	+3·9	+4·9	+1·9	+1·0	+1·4
18. Do., East	+1·0	−0·6	+1·6	+1·3	+2·9	+1·6	+3·0	+1·4	+4·5	+6·4	+0·5	+1·6	+2·1
19. Gujarat	−1·2	−1·4	+0·9	0	+1·1	+0·5	+1·4	+1·3	+1·7	+3·4	+2·2	+1·4	+0·9
20. Central India, West	+0·9	−0·1	+1·6	+0·5	+1·4	+2·4	+2·5	+1·4	+2·9	+5·6	+3·3	+1·5	+2·0
21. Do. do., East	+1·5	+0·7	+1·3	+0·4	+3·3	+1·3	+1·1	+0·1	+0·9	+4·7	+1·3	−0·9	+1·3
22. Berar	+1·7	+0·7	−0·3	−1·2	+1·2	+3·9	+2·1	+0·8	+0·8	+3·1	+5·5	+0·2	+1·5
23. Central Provinces, West	+1·7	−0·1	+0·4	−0·3	+1·9	+3·1	+1·2	+0·2	+0·7	+4·0	+4·2	+0·1	+1·4
24. Do. do., East	+1·4	+0·8	+0·6	−0·3	+2·3	+2·7	+1·2	+1·0	+0·9	+4·2	+5·7	+0·1	+1·7
25. Konkan	+1·5	+0·2	+0·3	+0·1	+1·9	+1·6	+1·1	+0·7	+0·7	+0·5	+2·7	−0·4	+0·9
26. Bombay Deccan	+2·2	−0·3	−0·1	+0·4	+0·9	+1·5	+0·7	+0·3	+0·5	+0·7	+4·5	−1·1	+0·9
27. Hyderabad, North	+3·8	+1·0	+0·1	−0·6	+0·2	+2·7	+2·0	+1·2	+0·7	+2·1	+5·5	−0·6	+1·5
28. Do, South	+1·4	+0·2	−0·5	−0·1	−0·1	+2·2	+1·5	+0·5	+0·6	+1·4	+5·1	−2·0	+0·9
29. Mysore	+2·1	+1·9	+1·4	+0·7	+0·1	+1·1	+1·0	+0·6	+1·5	+0·2	+2·9	−0·9	+1·1
30. Malabar	+2·5	+1·5	+0·7	+0·3	+1·2	+1·9	+0·7	+0·8	+1·2	+0·3	+1·2	−0·5	+1·0
31. Madras, South-east	+1·1	+1·4	+1·9	+0·5	+1·2	+1·4	+0·4	+1·2	+0·9	+1·2	+2·1	−0·6	+1·1
32. Do. Deccan	+2·4	+1·5	+0·8	+0·9	+0·6	+2·2	+1·2	+1·8	+0·7	+1·7	+4·8	−1·0	+1·5
33. Do. Coast, North	+0·5	−0·4	0	−0·3	+0·9	+0·9	+0·9	+1·2	+0·3	+1·7	+3·7	−1·3	+0·7

TABLE 18.—*Departure of the mean monthly and annual temperature from the normal in 33 sub-divisions of India in 1915.*

SUB-DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
1. Bay Islands	+0·8	+1·1	+0·9	+0·5	+0·2	+1·9	+1·2	+1·8	+0·9	—0·1	+0·3	—1·5	+0·7
2. Lower Burma	+0·7	+1·5	+0·3	—0·4	—0·7	+1·3	+0·9	+1·1	+0·5	—0·2	+0·7	—2·5	+0·3
3. Upper Burma	+0·5	+1·1	—0·8	—0·3	—2·7	—0·5	—0·2	+0·5	—0·3	+2·2	+2·7	+0·4	+0·2
4. Assam	+2·5	+1·5	0	+0·1	—0·7	—0·9	—0·7	+0·3	—0·3	+3·1	+3·2	+1·5	+0·8
5. Bengal	+1·3	+0·1	—1·3	+0·2	—0·1	—0·9	+0·8	+1·0	0	+2·5	+3·4	+0·4	+0·6
6. Orissa	—1·1	—0·5	—0·2	+0·5	+1·2	+1·5	+1·2	+1·6	—0·6	+1·3	+3·1	—0·5	+0·6
7. Chota Nagpur	+1·0	0	—0·7	+0·5	+2·2	+1·4	+1·8	+1·3	—0·1	+2·5	+3·8	+0·1	+1·1
8. Bihar	+1·5	—0·2	—1·3	—0·4	+0·5	—0·5	+0·9	+0·7	+0·1	+3·1	+2·9	+0·4	+0·6
9. United Provinces, East	+0·9	—1·3	—1·5	—0·7	+2·5	+0·8	+0·7	0	—1·1	+2·5	+1·7	+0·4	+0·4
10. Do. do., West	+0·2	—2·3	—1·4	—1·1	+2·9	+1·1	+2·1	+0·5	+0·8	+3·1	+0·6	+0·9	+0·6
11. Punjab, East and North	+0·1	—1·7	+0·3	—0·1	+6·2	+0·7	+4·3	+3·5	+2·0	+1·5	+0·2	+0·3	+1·4
12. Punjab, South-west	+1·5	—0·3	+2·4	—0·5	+4·4	+1·6	+3·9	+2·3	+3·0	+2·0	—0·1	+0·1	+1·7
13. Kashmir	—5·5	—0·5	—0·2	+2·1	+5·3	—1·1	+1·1	+0·9	+3·9	+3·9	+1·5	—0·1	+0·9
14. North-West Frontier Province	—0·1	—1·3	+2·2	—0·9	+6·4	+1·3	+4·1	+4·3	+3·9	+1·5	+0·3	—1·9	+1·7
15. Baluchistan	+0·5	—2·2	+4·7	—1·6	+6·0	+2·8	+1·3	+4·5	+4·9	+0·1	+0·9	—1·4	+1·7
16. Sind	+0·6	—0·6	+1·8	—1·1	+1·6	+1·7	+2·3	+1·3	+2·0	+1·9	+0·9	+0·1	+1·0
17. Rajputana, West	—0·1	—1·4	+2·0	—0·9	+1·9	+1·8	+2·5	+2·7	+5·3	+2·7	+0·9	+1·3	+1·6
18. Do., East	+0·1	—2·5	—0·1	—0·1	+2·5	+2·5	+4·7	+2·3	+5·5	+3·3	+0·5	+1·5	+1·7
19. Gujarat	—0·8	—1·6	+0·1	—0·9	+0·4	+1·4	+2·6	+1·7	+2·7	+0·8	+2·1	+0·9	+0·8
20. Central India, West	+0·5	—1·2	+0·1	—0·5	+1·7	+4·5	+4·1	+1·7	+4·5	+2·7	+2·6	+1·3	+1·8
21. Do. do., East	+0·8	—1·3	—1·6	—0·9	+2·5	+2·3	+1·6	—0·5	—0·2	+2·1	+0·5	—0·4	+0·4
22. Berar	+0·3	0	—2·5	—1·9	+1·1	+5·1	+2·5	0	+0·9	+0·6	+3·8	+0·1	+0·8
23. Central Provinces, West	+0·9	—1·3	—1·9	—1·5	+1·3	+4·5	+1·8	—0·3	+0·9	+1·5	+2·8	+0·3	+0·7
24. Do. do., East	—0·1	—0·1	—1·5	—0·5	+1·6	+4·1	+1·7	+0·6	+0·5	+2·1	+3·3	—0·1	+1·0
25. Konkan	+1·0	—0·4	+0·1	+0·3	+1·2	+1·5	+1·3	+0·8	+0·5	—0·3	+1·3	—0·8	+0·5
26. Bombay Deccan	+0·3	—0·7	—1·5	—0·3	+0·5	+3·2	+1·3	+0·4	+0·6	—0·7	+2·5	—1·5	+0·3
27. Hyderabad, North	+0·9	—0·1	—2·1	—0·9	+0·7	+3·5	+1·6	+0·8	+0·8	+0·3	+3·2	—1·0	+0·6
28. Do., South	—0·5	—0·6	—2·3	—0·3	+0·1	+3·0	+1·7	+0·9	+0·9	+0·1	+2·9	—1·7	+0·3
29. Mysore	+1·5	+1·3	+0·1	+0·6	+0·5	+1·3	+1·3	+1·1	+1·5	+0·5	+1·4	—1·1	+0·8
30. Malabar	+1·6	+0·8	+0·3	+0·4	+0·9	+1·9	+0·4	+0·8	+0·9	+0·8	+0·1	—0·1	+0·7
31. Madras, South-east	+0·3	+0·7	+0·3	+0·3	+1·4	+0·9	—0·4	+1·1	+0·3	+1·8	+1·5	—0·3	+0·7
32. Do. Deccan	+0·5	+0·3	—1·3	+0·3	0	+2·2	+1·1	+1·7	+0·5	+1·0	+1·9	—1·7	+0·5
33. Do. Coast, North	—0·6	—0·8	—0·7	—0·1	+0·7	+0·5	+0·8	+1·3	—0·1	+1·6	+1·9	—0·9	+0·3

In the following discussion the year is divided into four seasons according to the following arrangement:—

1st.—The cold weather period, including the months of January and February.

2nd.—The hot weather period, including the months of March, April and May.

3rd.—The period of the south-west monsoon rains proper, including the months of June, July, August and September.

4th.—The period of the retreating south-west monsoon, including the months of October, November and December.

I.—The cold weather period.—On the mean of the season maximum and minimum temperatures were both sensibly normal in the plains of India. Similar conditions prevailed in the hill districts of the Punjab, the North-West Frontier Province and Baluchistan, but in Kashmir temperature was appreciably lower than usual, by both day and night.

In Persia temperature was about the average in the maritime tract and rather high in the interior.

No marked hot and cold waves affected northern India during the period. The lowest temperatures of the year in northern and central India occurred generally during the first sixteen days of January, but were by no means remarkable.

II.—The hot weather period.—In Baluchistan, the North-West Frontier Province, Kashmir and Kashgar temperature was somewhat higher than usual, but in the rest of India as well as in Persia temperature conditions were fairly normal.

The greatest heat of the year occurred generally in the United Provinces, Central India and the Central Provinces between the 26th May and the 5th June and in the east and north Punjab between the 5th and the 10th June. In upper Sind this event occurred on July 5th when a reading of 125·7° was recorded at Jacobabad.

III.—The south-west monsoon period.—In north-west India generally as well as in parts of Central India, where rainfall was unusually scanty, temperature was appreciably higher than usual, but over the rest of the country the temperature conditions of the period were very nearly normal. In north-east Baluchistan and Kabul temperature was 3½° above the average of the season, while in Persia the departures from normal were not marked.

IV.—The retreating monsoon period.—Minimum temperature was on the mean of the period about 3° higher than usual in north-east India, Rajputana, Central India and the Central Provinces, but elsewhere in the plains temperature conditions did not differ to any important extent from the normal.

In the hills surrounding the Punjab as well as in Persia the departures from normal of temperature were as a rule of small magnitude, but in Afghanistan, as represented by Kabul, maximum temperature was 7½° above normal.

The year.—On the mean of all the observing stations in the plains of India temperature was up to the average in December, rather low in February, March and April, and high in the remaining months of the year; it was upwards of 1° above normal from May to November.

The statement below shows that in only seven of the twelve months the departures from normal of temperature were determined by the character of rainfall.

TABLE 19.

Month.	Departure from normal of temperature.	Percentage departure of rainfall.
	°	
January	+0·6	+ 22
February	—0·5	+ 83
March	—0·4	+154
April	—0·4	— 4
May	+1·2	+ 36
June	+1·6	— 1
July	+1·8	— 15
August	+1·2	— 11
September	+1·2	— 3
October	+1·7	+ 32
November	+1·8	+ 59
December	—0·1	+ 59
Year	+0·8	+ 2

On the whole notwithstanding the slight excess of rainfall the temperature for the year was 0·8° higher than usual.

Atmospheric pressure.

Full information regarding the types of barometers in use at Indian observatories and of the methods of reducing the observations and obtaining the mean daily and monthly pressures will be found in pages 5 and 6 of the Monthly Review for January 1915.

In Table A, called Table II prior to 1907, of each Monthly Review the monthly mean daily pressure (corrected for temperature) is given in the seventh column, and the departure from the normal in the eighth column. The normal monthly mean pressure values were recalculated in 1904 for all first and second class stations, and will be found in pages 66-69 of the "Indian Meteorological Memoirs," Volume XVII. The departure data in the Monthly Reviews for the year 1915 were obtained by a comparison of the actual monthly means with these normals; the departures of the monthly pressure of all first and second class stations in

1915 are given in Table 20. The figures in the seventh and eighth columns of Table A, appended to the present Annual Summary, giving data of the mean pressure of the air and its departure from the normal for all first and second class stations are comparable with the corresponding data of previous years published in the Annual Reports and Annual Summaries.

In the ninth column of Table A in each Monthly Review are given the mean pressures reduced to sea-level and corrected to constant gravity (Lat. 45°). These are not directly comparable with the sea-level pressure values of the years 1875-90 as given in the Annual Reports for those years, for previous to 1891 no correction was made to reduce the monthly pressure means to standard gravity.

In Table B of each Monthly Review, and also in that appended to the Annual Summary, are given the pressure data for 8 hours local time. The fourth column in that table gives the mean 8 hours pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hours pressures from the normal pressures.

The greater part of the normal 8 hours monthly means of pressure used in Table B 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.

TABLE 20—*Departure from normal of monthly and annual mean pressure of first and second class stations in 1915.*

DIVISION.	STATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	+·046	+·016	+·078	+·038	—·056	+·040	+·011	—·026	+·018	—·097	—·037	—·011	+·002
Punjab	Lahore	+·076	—·002	+·054	+·046	—·091	+·028	—·028	—·049	—·006	—·080	—·005	—·003	—·005
Rajputana	Jaipur	+·050	—·007	+·023	+·028	—·076	—·007	—·009	—·031	—·059	—·107	—·029	—·026	—·021
Bombay	Bombay	+·026	+·004	+·059	+·034	—·004	—·005	+·020	+·009	—·028	—·038	—·054	+·021	+·004
Mysore	Bangalore	+·033	+·001	+·057	+·043	+·010	—·007	+·008	+·008	—·021	—·025	—·037	+·018	+·007
Madras	Madras	+·024	—·004	+·054	+·032	—·029	—·022	+·003	—·015	—·026	—·055	—·073	+·008	—·009
Hill stations, excluding Kashmir and Baluchistan.	Katmandu	+·090	+·078	+·117	+·119	+·076	+·152	+·128	+·106	+·109	+·041	+·075	+·057	+·096
Extra India	Seychelles	+·051	+·006	+·055	+·002	—·021	—·016	—·029	—·004	—·021	+·001	+·005	+·005	+·003
	Mauritius	+·094	+·020	+·037	—·019	+·009	—·023	—·013	—·012	—·032	+·001	+·020	+·025	+·009

TABLE 21.—*Departure of the mean monthly pressure from the normal in the fifteen chief political divisions of India in 1915.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·054	+·001	+·065	+·034	—·014	+·024	+·006	—·016	+·013	—·071	—·023	—·009	+·005
Assam	+·062	+·010	+·089	+·032	—·045	+·043	—·003	—·039	+·024	—·079	—·013	—·011	+·006
Bengal	+·058	+·013	+·087	+·040	—·051	+·041	+·004	—·025	+·025	—·085	—·017	—·002	+·007
Bihar and Orissa	+·063	+·014	+·076	+·042	—·057	+·030	+·015	—·025	+·019	—·084	—·026	+·003	+·006
United Provinces	+·070	+·020	+·076	+·055	—·061	+·032	+·004	—·027	+·010	—·093	—·002	+·001	+·007
Punjab	+·073	+·001	+·047	+·044	—·077	+·035	—·007	—·035	—·002	—·079	—·001	0	0
North-West Frontier Province	+·047	—·025	+·013	+·027	—·119	+·013	—·037	—·071	—·021	—·090	—·019	—·013	—·025
Sind	+·062	+·009	+·033	+·060	—·067	+·024	+·024	—·021	—·017	—·073	—·009	+·007	+·003
Rajputana	+·055	+·002	+·032	+·047	—·054	+·009	+·020	—·012	—·023	—·087	—·018	—·009	—·003
Bombay	+·038	—·001	+·045	+·043	—·030	+·001	+·031	+·003	—·023	—·058	—·047	+·007	+·001
Central India	+·049	+·004	+·045	+·045	—·050	+·001	+·024	—·015	—·011	—·087	—·023	+·002	—·001
Central Provinces	+·053	+·007	+·054	+·052	—·041	—·012	+·026	—·006	—·005	—·088	—·041	+·008	+·001
Hyderabad	+·045	+·005	+·059	+·043	—·026	—·018	+·019	+·005	—·015	—·057	—·057	+·013	+·001
Mysore	+·034	+·005	+·056	+·031	—·008	—·009	+·010	+·004	—·020	—·025	—·046	+·013	+·004
Madras	+·035	+·002	+·059	+·033	—·022	—·014	+·012	—·006	—·015	—·041	—·058	+·011	0
Mean of India	+·054	+·005	+·057	+·043	—·044	+·013	+·013	—·016	—·003	—·074	—·028	+·002	+·002

I.—The cold weather period.—Atmospheric pressure in the plains was in excess by ·054″ in January and by only ·005″ in February. The excess extended beyond the limits of India and was therefore caused by general, and not local, actions.

The local features of the pressure distribution were not strongly marked.

Over north-west India the vertical gradient was on the whole weak in January, the month of scanty precipitation, and slightly above its normal value in February when the weather was more disturbed than usual. In the Peninsula the vertical pressure distribution differed little from the normal type, although the rainfall there was unusually heavy.

II.—The hot weather period.—Pressure in the plains was markedly in excess in March and April, and in large defect in May. The excess in March extended southwards to Mauritius, while that in April was confined mainly to India; the defect in May was widespread, reaching Persia and Arabia in the west, and Seychelles in the south. At Mauritius pressure was inclined to be high—a circumstance unfavourable to a good monsoon over India.

Notwithstanding that weather over north-west India was abnormally wet in March and dry in May, the vertical gradient was unusually weak in both months. In April, on the other hand, strong vertical gradients were associated with heavier rain than usual.

III.—The south-west monsoon period.—Pressure in the plains was in excess by ·013″ in both June and July, and in defect by ·016″ in August and by ·003″ in September.

The coincident departures in the Indian Ocean were:

TABLE 22.

STATION.	DEPARTURE OF PRESSURE FROM NORMAL.				
	June.	July.	August.	September.	Period June to September.
	"	"	"	"	"
Mauritius	—·023	—·002	—·012	—·032	—·017
Seychelles	—·016	—·029	—·004	—·021	—·017
Zanzibar	—·024	—·007	+·011	—·011	—·008

It will be seen from the preceding data that the distribution of pressure in the Indian Ocean was on the whole favorable to a good monsoon in India.

Relatively to the general condition, pressure was in slight defect in the Peninsula in June and September and in excess in the two intervening months; while the opposite was the case in the tract from Assam to the Punjab. In consequence of these peculiarities the trough of low pressure lay further south than usual in June and September and to the north of its normal position in July and August.

IV.—The retreating monsoon period.—Pressure in the plains was below normal by ·074″ in October and by ·028″ in November, and was in very slight excess in December. The deficiency in the first two months was restricted to India, Persia and Arabia, while the excess in December embraced the whole monsoon area.

The local features of the pressure distribution in India were not of any great significance.

The vertical pressure gradient over northern India was persistently weaker than usual—a condition unfavourable for an early winter.

The year.—The mean monthly pressure in the plains was more or less above the average from January to April and again in June, July and December while it was lower than usual in all the other months. The opposite variations almost counterbalanced each other, so that the pressure of the whole year differed from the normal by only ·002″.

In nine of the twelve months the departures of pressure were determined, though only partially, by those of temperature.

TABLE 23.

Month.	Departure from normal of	
	Pressure.	Mean temperature.
	″	°
January	+·054	+0·6
February	+·005	—0·5
March	+·057	—0·4
April	+·043	—0·4
May	—·044	+1·2
June	+·013	+1·6
July	+·013	+1·8
August	—·016	+1·2
September	—·003	+1·2
October	—·074	+1·7
November	—·028	+1·8
December	+·002	—0·1
Year	+·002	+0·8

From January to March and again in August, September and December the variations of pressure in India were controlled by actions operating over the whole of the monsoon area.

Storms of the year.

BAY OF BENGAL.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
1	June	22nd to 26th	·45″	Considerable.	This was developed on the 22nd off the north Madras coast in front of the permanent advance of the monsoon. It passed inland near Waltair on the morning of the 24th and after travelling north-westwards, roughly along a line through Waltair, Jagdalpur and Seoni, disappeared over the north of the Central Provinces during the 26th. Having formed much further south than is usual in June the storm failed to introduce the rains into north-east India, and was noteworthy chiefly for the heavy rain it gave to the Central Provinces, north Hyderabad and the Konkan. The strongest winds actually recorded on board vessels were of force 9 to 10.
2	Aug.	1st to 6th	·23″	Slight or moderate.	This formed off the Orissa coast at the end of July, and after travelling slowly north-westwards crossed the coast near Balasore, presumably on the early morning of the 3rd August. Its rate of movement increased rapidly during the day, and by the morning of the 4th it had reached the neighbourhood of Pendra. At 8 hrs. of the 5th it was near Nowgong, and on the following morning between Jhansi and Agra. It broke up completely during the day. Its barometric depth was throughout small and it failed to produce any marked concentration of rainfall. The strongest winds caused by it over the Bay were of force 9.

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
3	Aug. and Sep.	26th to 1st	·26″	Slight	This storm was formed off the north Madras coast on the 24th and 25th. Its line of travel was almost due north on the 26th and north-west on the 27th. It struck the coast near False Point on the morning of the 28th and after advancing rapidly north-westwards had reached the neighbourhood of Sutna by 8 hrs. of the 30th. It then recurved through north to north-east and broke up at the foot of the Nepal hills on the 1st of September. Its barometric depth was about a quarter of an inch while crossing the coast, but had diminished to a seventh of an inch by the 31st. A deluge of rain occurred in its connection in the region around Lucknow and Cawnpore causing destructive floods. The greatest force of the winds actually experienced was 7.
4	Sep.	6th to 8th	·2″	Slight	This was first seen on the 4th as a small closed area of low pressure over the head of the Bay. It became more marked during the next 72 hours and was at the same time displaced southwards, so that on the morning of the 7th it was shown as a distinct system off Waltair. The centre crossed the coast sometime during the day, and by 8 hrs. of the 8th had reached the neighbourhood of Jagdalpur. During the succeeding 24 hours it was merged in the monsoon trough of low pressure. It was throughout of slight intensity and failed to produce any marked concentration of rainfall. The stongest winds actually recorded did not exceed 7 in force.
5	Sep. and Oct.	30th to 7th	·32″	Moderate	This was the development of a slight depression which appears to have advanced into the north of the Andaman Sea on the 26th. From here it travelled along a west-northwesterly to northwesterly track across the Bay and after reaching a position within 170 miles of the north Madras coast on the 30th, turned southwestwards and skirted the coast line with a slow rate of progression and diminishing intensity. By the morning of the 2nd the centre had reached a point midway between Cocanada and Masulipatam; it crossed the coast to the south of Cocanada apparently about noon and marched rapidly north-westwards during the next 36 hours through the east of the Central Provinces. It then turned to north-east and going past Jubbulpore on the 5th, Sutna on the 6th and Allahabad on the 7th, broke up against the Nepal hills. Its barometric depth was about a third of an inch from the 1st to the 7th. Widespread and in places heavy rain occurred under its influence over the northern half of the Peninsula, the central parts of the country and the east of the United Provinces. The storm was remarkable chiefly for (*a*) its turning southwestwards on approaching the coast near Vizagapatam, presumably owing to the obstructive action of the Ghats, and (*b*) its remaining undiminished in severity during its five days' passage overland. The strongest winds actually recorded were of force 7.
6	Nov.	4th to 7th.	·37″	Considerable.	This was formed to the west of the Andamans at the beginning of the month, and thence travelled along a westerly path to the Coromandel coast which it crossed near Nellore during the 5th. It was central to the south of Kurnool on the morning of the 6th, and at 8 hrs. of the 7th was passing out into the Arabian Sea in the neighbourhood of Goa. From here it advanced northwestwards and by 8 hrs. of the 8th had reached a position about 150 miles west by north of Ratnagiri. The scanty information available for the 9th shows that the disturbance was dissipating rapidly. The greatest wind force actually recorded by vessels, which were however at a considerable distance from the centre, was 8. The tidal wave accompanying the storm swept over the low-lying lands of the Kistna district.
7	Nov.	15th to 16th.	·28″	Moderate	This appeared as a shallow depression over the south-west of the Bay on the 12th and advanced northwards parallel to the coast, developing at the same time. By the morning of the 15th it had grown sufficiently deep to be classed as a storm. It disappeared almost completely during the 16th while approaching the head of the Bay. It is extremely unusual for storms to break up

No.	Month.	Date.	Greatest observed barometric depression.	Intensity of storm.	Details of storm.
					in this manner, only one or two similar occurrences having been recorded during the past forty years. Although not quite as deep as its predecessor it gave rise to widespread and heavy rainfall in the south and east of the Peninsula and in lower Bengal. The strongest winds caused by it were of force 8.
8	Dec.	3rd to 5th.	·24″	Probably considerable.	This formed to the west of the little Andamans during the 2nd. The centre was about 200 miles to the south-west of Port Blair on the morning of the 3rd; from here it travelled almost due north-east and by 8 hours of the 5th had reached a position about 50 miles south-south-east of Diamond Island. It broke up rapidly during the day without reaching the coast. It was apparently a moderately severe disturbance and is reported to have caused very rough weather and seas. Its path was unique, as there is not a single instance on record during the passed 40 years of a storm formed in December to the west of the Andamans having advanced to the coast of Tenasserim or Pegu. The strongest winds actually recorded on board vessels, none of which was however close to the centre, were of force 8.

ARABIAN SEA.

No storms formed over this area.

Winds.

The mean direction of the wind and the mean diurnal movement of the air as measured by Robinson anemometers are given for all second class stations in Table A in each Monthly Weather Review. The normal values are also stated for the sake of ready comparison. The normal data of these elements, utilized in Table A of the Monthly Weather Reviews of the year 1915, will be found in a collected form in Tables XXII, XXVI and XXVII of Volume XVII of Indian Meteorological Memoirs. The mean 8 hours wind directions for each month are laid down in the first chart in each Monthly Review. They are calculated in the usual manner by finding the resultant of equal winds in the directions actually observed at 8 hours and given in Table B in each Monthly Review. As a general rule, the mean 8 hours wind directions vary little from the mean wind directions (calculated from the 10 and 16 hours wind data) in Table A of the Monthly Reviews, but in some cases and at certain seasons of the year they differ very considerably. The normal values used in Table B have been published in Volume XVII of the Departmental Memoirs.

Hitherto 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 1911 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).

The following is a summary of the more important features of the air movement over India for each period of the year 1915:—

I.—The cold weather period.—(*a*) The rate of air movement was appreciably low in Bengal and the valley of the Indus, high in Rajputana and Madras and about the average elsewhere.

(*b*) Winds blew with more than their customary steadiness in the Punjab, Sind, Hyderabad, Mysore and Madras, but were very unsteady in the United Provinces and the North-West Frontier Province.

(*c*) There were no marked persistent irregularities in the direction of air movement.

II.—The hot weather period.—(*a*) Winds were weaker than usual in Burma, Bengal and Sind and above their average strength in the Punjab, Rajputana, the Central Provinces, Hyderabad, Mysore and Madras; elsewhere the rate of air movement was fairly normal.

(*b*) The degree of steadiness was low in Burma, Bengal and Central India, and high in the Punjab, the North-West Frontier Province, Sind and Rajputana.

(*c*) In March the direction of wind was very unusual in the tract of country from Bihar to north Rajputana and the south Punjab, being in many places the opposite of the normal. (See page 33 of the March Review). This feature was associated with abnormally heavy rain in northern and central India. In April the direction was less southerly or more westerly than usual in lower Bengal, and unusually easterly in the submontane districts of the Punjab. In May the easterly element in the mean direction over the north Punjab was very strong and the northerly component weak, an indication that there were no excessive accumulations of snowfall in the mountains to the north.

III.—The south-west monsoon period.—(*a*) On the whole the Bay current was of about normal strength and steadiness, while the Arabian Sea current was decidedly stronger than usual but remarkably unsteady.

(*b*) In June winds contained an undue northerly element in Mysore, the Konkan, the Bombay Deccan and the western half of the Central Provinces, and an abnormal easterly component over the region defined by Sutna, Jhansi, Agra, Hissar and Montgomery. At Darjiling where, as a rule

light easterly winds prevail, calms were reported during nearly the whole month, an indication that the easterly current over north-east India was of less depth than usual. In July the usual northerly element in the wind direction was weak or altogether absent on the Malabar coast, but in general the air currents over India followed their normal course. In August the only strikingly abnormal feature was the presence of an undue northerly element generally in the interior of the Peninsula. In September there was an almost complete absence of the usual influx of damp air across the north Konkan coast, and an extension of the area under the influence of the Bay current.

(*c*) In the western half of the equatorial belt, according to the scanty information available, light variable winds prevailed during the first eleven days of June, the first week of July, the second week of August, and the first three weeks of September.

It may be noted that the marked delay in the arrival of the Arabian Sea current on the west coast and the breaks of July 2nd to 12th and August 9th to 20th and the weakness of the monsoon during a large part of September were directly related to the prevalence of these unusual conditions in equatorial regions.

IV.—The retreating south-west monsoon period.—The only noteworthy features were (*a*) the prevalence in October over the greater part of the Peninsula of north-westerly winds instead of the normal winds from between north and east, and (*b*) the unusually early retreat about the middle of November of the south-east trades from the neighbourhood of the Seychelles.

Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for stations in Table A, for the year 1915, are given in Tables 24 and 25. The normal values employed in the determination of the departures are given in Tables XXX and XXXIII of the Indian Meteorological Memoirs, Volume XVII. The Tables 26 and 27 give departure data of 8 hours, aqueous vapour pressure and relative humidity for each month of the year and for the year for the fifteen chief political divisions.

Normal values for most of the stations in Table B have been derived from the 8 hours records of the period 1889—1910, and are given in Part III, Volume XXII of Meteorological Memoirs.

TABLE 24.—*Departure of the monthly and annual mean vapour pressure data of 1915 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
		"	"	"	"	"	"	"	"	"	"	"	"	"
Bengal	Calcutta	—·002	—·008	+·012	—·046	+·060	—·009	0	+·008	—·023	+·015	+·029	—·007	+·018
Punjab	Lahore	+·020	+·021	+·090	+·053	+·084	+·011	—·052	—·035	+·067	+·059	—·003	—·022	+·024
Rajputana	Jaipur	+·012	—·007	+·061	+·032	—·014	—·067	—·081	—·030	+·052	+·069	—·058	—·038	—·006
Bombay	Bombay	—·049	—·044	—·022	—·037	+·005	—·039	—·016	—·032	—·009	—·008	+·042	—·046	—·021
Mysore	Bangalore	+·049	+·014	+·032	—·029	0	+·049	+·015	0	+·029	+·118	+·048	—·005	+·027
Madras	Madras	+·053	+·050	+·053	+·005	—·023	+·048	+·050	+·013	+·010	+·033	+·050	—·050	+·024
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	—·014	+·018	+·014	+·019	+·080	—·023	—·003	+·007	+·009	+·110	+·018	—·017	+·018
Extra India	Seychelles	+·007	+·008	+·010	+·037	+·020	—·001	—·032	—·032	+·018	+·012	—·031	—·022	—·001
	Mauritius	—·071	—·009	+·030	+·050	+·026	+·010	+·022	—·040	—·009	—·032	—·025	—·017	—·005

TABLE 25.—*Departure of the monthly and annual mean relative humidity data of 1915 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	— 5	— 4	+ 3	— 6	+ 2	0	— 3	— 3	— 2	+ 1	+ 3	— 3	— 1
Punjab	Lahore	0	+ 7	+ 8	+ 5	— 1	— 1	—14	—15	+ 4	+ 7	0	— 2	0
Rajputana	Jaipur	0	+ 3	+ 9	+ 4	— 5	—12	+11	— 9	— 5	0	—10	— 9	— 2
Bombay	Bombay	— 7	— 2	— 1	— 6	— 3	— 6	— 5	— 6	— 3	— 1	+ 1	— 5	— 4
Mysore	Bangalore	+ 4	0	+ 5	— 3	+ 1	+ 4	— 2	— 5	0	— 1	+ 3	— 1	0
Madras	Madras	+ 3	+ 2	+ 3	— 1	— 6	0	+ 5	— 3	— 2	— 5	+ 3	— 7	— 1
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	— 6	+ 3	+ 3	— 1	+ 5	— 2	— 1	— 3	— 1	+ 2	— 4	— 5	— 1
Extra India	Seychelles	— 2	0	— 4	— 1	— 3	— 4	— 5	— 5	— 2	— 3	— 5	— 3	— 3
	Mauritius	— 8	— 2	0	+ 2	0	0	+ 2	— 4	— 2	— 5	— 3	— 2	— 2

TABLE 26.—*Departure of the mean monthly aqueous vapour pressure from the normal in the fifteen chief political divisions of India in 1915.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	+·037	+·019	—·006	—·003	+·009	+·003	+·006	+·015	—·014	+·016	+·027	—·017	+·008
Assam	+·041	+·020	+·010	+·007	+·022	—·023	—·002	+·008	—·015	+·087	+·077	+·030	+·022
Bengal	0	—·002	—·026	—·013	+·028	—·009	+·007	+·020	—·007	+·077	+·076	—·006	+·012
Bihar and Orissa	—·004	+·015	+·052	—·043	+·042	+·009	—·003	+·019	+·011	+·095	+·113	—·001	+·025
United Provinces	+·021	+·032	+·101	+·037	+·067	+·003	—·006	+·006	+·051	+·103	+·018	—·013	+·035
Punjab	+·014	+·013	+·066	+·043	+·068	—·021	—·046	—·033	+·046	+·044	—·022	—·027	+·012
North-West Frontier Province	+·003	+·011	+·071	+·049	+·052	—·007	—·052	—·003	+·037	+·025	—·027	—·040	+·010
Sind	+·045	—·024	+·153	+·043	+·121	+·066	+·032	+·034	+·038	+·039	—·061	—·015	+·039
Rajputana	+·003	+·017	+·063	—·005	+·020	—·061	—·075	—·084	—·052	+·109	—·081	—·049	—·016
Bombay	+·007	+·003	+·036	—·021	+·011	—·003	+·007	—·009	+·010	+·082	+·041	—·015	+·012
Central India	+·003	+·018	+·116	—·041	+·016	—·034	—·023	—·021	+·021	+·149	+·014	—·009	+·017
Central Provinces	+·016	+·002	+·082	+·008	+·041	—·062	—·020	—·009	+·023	+·142	+·093	—·011	+·025
Hyderabad	+·033	—·038	+·035	—·015	—·037	—·017	+·008	+·001	+·022	+·072	+·112	—·031	+·012
Mysore	+·021	+·009	+·003	—·014	—·005	+·032	+·007	—·009	+·030	—·015	+·049	—·017	+·008
Madras	+·019	+·020	+·033	+·013	—·006	+·043	+·020	+·011	+·037	+·006	+·073	—·028	+·020
Mean of India	+·017	+·010	+·051	+·001	+·028	—·009	—·010	—·006	+·013	+·073	+·036	—·018	+·015

TABLE 27.—*Departure of the mean monthly and annual relative humidity from the normal in the fifteen chief political divisions of India in 1915.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+ 3	0	0	+1	+5	0	0	0	—1	0	0	+ 1	+1
Assam	0	— 1	+1	—2	+3	—1	+ 1	+1	—1	— 1	0	— 1	0
Bengal	— 2	0	0	—1	+3	+1	— 1	—1	—1	+ 2	+ 1	— 1	0
Bihar and Orissa	— 3	+ 3	+9	—5	+4	0	— 3	—1	+1	+ 3	+ 5	0	+1
United Provinces	+ 2	+ 8	+12	+3	+3	—2	— 4	—1	+2	+ 2	— 2	— 4	+2
Punjab	+ 6	+ 6	+8	+5	0	—3	— 9	—7	0	+ 3	— 1	— 4	0
North-West Frontier Province	+ 9	+ 7	+7	+10	—3	+1	—10	—7	—1	+ 6	+ 1	— 2	+1
Sind	+ 7	— 3	+15	+6	+8	+2	— 1	+2	0	0	— 4	— 2	+3
Rajputana	0	+ 4	+7	0	+1	—8	—11	—11	—12	+ 5	—13	—12	—4
Bombay	+ 1	+ 2	+6	—1	0	—3	— 2	—3	0	+ 9	+ 2	0	+1
Central India	— 2	+ 7	+17	—1	+1	—8	— 7	—3	—3	+13	+ 2	0	+1
Central Provinces	0	0	+13	+3	+4	—10	— 6	—1	0	+12	+ 6	— 1	+2
Hyderabad	+ 6	— 3	+8	—1	—4	—7	— 4	—3	+1	+ 9	+ 8	— 1	+1
Mysore	+ 2	+ 1	+1	—1	+1	+2	— 1	—1	+1	0	+ 6	+ 1	+1
Madras	+ 1	+ 2	+3	+1	—2	+1	+ 1	—1	+3	— 2	+ 5	— 1	+1
Mean of India	+ 2	+ 2	+7	+1	+2	—3	— 4	—3	—1	+ 4	+ 1	— 2	+1

I.—The cold weather period.—(*a*) Over the plains the amount of aqueous vapour in the air was either about the average or somewhat in excess. The relative humidity was more than 4 per cent. in excess in the United Provinces, the Punjab and the North-West Frontier Province, and sensibly normal elsewhere.

(*b*) In Persia there was about the usual amount of vapour in the air, but in virtue of the prevailing high temperature the percentage of saturation was in general lower than usual. In Baluchistan the air was dry according to either estimation, while the reverse was the case in Kabul. In the Himalayas the conditions were variable.

II.—The hot weather period.—(*a*) Humidity, both absolute and relative, was appreciably in excess in the United Provinces, the Punjab, the North-West Frontier Province, Sind, Central India and the Central Provinces, but over the rest of the plains the hygrometric conditions were on the mean of the period fairly normal.

(*b*) In the Himalayas as well as in Baluchistan and Persia the distribution of humidity showed much irregularity.

III.—The south-west monsoon period.—(*a*) Except in Rajputana where the air was distinctly drier than usual, both absolutely and relatively, conditions were nearly normal throughout the plains of India.

(*b*) In Persia, according to the imperfect information available, vapour pressure and the percentage of saturation were both slightly above normal, while in Baluchistan and Kabul the relative humidity was high and the absolute humidity low. In the hill districts of the North-West Frontier Province as well as in the Himalayas the departures from the normal were irregular and of no great significance.

IV.—The retreating south-west monsoon period.—(*a*) The quantity of aqueous vapour in the air was appreciably greater than usual in north-east India, the United Provinces, Bombay, Central India, the Central Provinces and Hyderabad, and in the four last-named areas relative humidity also inclined to be high. Conditions were fairly normal in all the remaining divisions with the exception of Rajputana where the percentage of saturation was rather low.

(*b*) In Persia, Baluchistan and the hills of the North-West Frontier Province the air was drier than usual, both absolutely and relatively. In Kabul conditions were nearly normal.

The year.—In point of absolute humidity the months of March, May, October and November were distinctly damper than usual, while in the rest of the year the amount of vapour present in the air was about normal. The relative humidity was decidedly high in March and rather high in October, and was appreciably low from June to August.

A comparison of the monthly departures with the corresponding rainfall data shows that the abnormalities of the two elements were parallel during the greater part of the year.

Cloud.

Normal values of the mean monthly and annual amount of cloud at stations in Table A have been obtained from the whole of the available data up to the end of the year 1899 and given in Tables XXXV and XXXVI of the Indian Meteorological Memoirs, Volume XVII. These means are the arithmetical averages of the cloud amounts as registered at 10 and 16 hours, and hence represent the mean amount during the day period rather than of the whole 24 hours.

The normals used in Table B are in the case of the majority of stations based on the 8 hours records of the period 1889—1910, and are given in the Volume XXII, Part III, of the Memoirs.

Departure data of this element of meteorological observation for first and second class stations for the year 1915 are given in Table 28. Table 29 gives the departures of the 8 hours cloud for the fifteen chief political provinces of India.

TABLE 28.—*Departure of the monthly and annual mean cloud amount of 1915 from the average of past years.*

Division.	Station.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Bengal	Calcutta	+2·2	—0·1	+2·9	—0·8	+0·7	+0·6	—0·1	+0·1	—0·5	+1·7	+1·6	—0·6	+0·7
Punjab	Lahore	—1·0	—0·3	—0·3	+0·2	—1·4	—2·0	—3·2	—1·9	+0·4	+0·1	—1·2	—0·1	—0·9
Rajputana	Jaipur	+0·6	—0·8	+0·2	+1·2	—0·8	—1·5	—2·1	—1·5	—0·5	+1·2	—1·5	—0·3	—0·5
Bombay	Bombay	+0·5	+0·1	+1·0	+1·5	+1·8	—1·0	—0·8	+0·2	—0·1	+0·9	+0·6	—0·0	+0·3
Madras	Madras	+1·1	+0·3	0	—1·8	—0·8	—1·5	—1·4	—1·2	—0·2	—0·9	+0·4	—1·7	—0·5
Hill Stations, excluding Kashmir and Baluchistan.	Katmandu	+0·9	+1·4	+2·1	+2·1	+1·3	+0·4	+0·7	+0·3	+0·6	+2·0	+0·3	+2·2	+1·3
Extra India	Seychelles	—0·3	+0·4	—1·1	+0·4	—0·4	—1·6	+0·2	—0·7	+0·5	—0·3	—1·7	—0·1	—0·4
	Mauritius	—0·2	+0·2	0	—0·5	+0·8	+0·8	+0·1	—0·3	+0·2	—0·7	+0·3	+0·5	+0·1

TABLE 29.—*Departure of the mean monthly and annual cloud amount from normal in the fifteen chief political divisions of India in 1915.*

Division.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December	Year.
Burma	+1·8	+1·1	+1·7	+0·7	+1·2	—0·4	—0·5	—0·5	—0·6	+0·8	+0·4	+1·1	+0·6
Assam	+1·3	—0·3	+0·3	—1·6	+0·9	—0·5	—0·6	—1·1	—1·6	+0·8	+1·1	—0·5	—0·1
Bengal	+1·2	—0·3	+0·7	—1·1	+1·6	+0·4	—0·1	+0·1	—0·6	+1·2	+1·4	—0·2	+0·4
Bihar and Orissa	+1·1	+0·3	+1·6	—0·1	+1·6	+0·2	—0·1	+0·2	+0·3	+1·3	+2·1	—0·2	+0·7
United Provinces	+0·2	+0·3	+0·2	+0·2	—0·1	—0·9	—0·7	+0·1	+0·3	+0·6	—0·4	0	0
Punjab	—1·1	—0·2	—0·6	+0·3	—0·6	—0·2	—1·5	—1·6	+0·5	+0·5	—1·0	—0·6	—0·5
North-West Frontier Province	—2·0	—0·7	—0·8	+0·5	—1·3	—0·6	—0·8	—1·4	+0·3	0	—1·5	—0·5	—0·7
Sind	—1·5	—1·3	—0·2	+0·4	+0·1	—1·1	—0·9	+0·4	—0·4	+0·6	—1·3	—0·7	—0·5
Rajputana	+0·3	—0·3	—0·3	+0·8	—0·5	—0·7	—1·4	—1·2	—1·0	+1·3	—1·0	—0·4	—0·4
Bombay	+0·8	+0·1	+0·8	+1·2	+0·9	—0·7	—0·8	—0·2	—0·1	+1·1	+0·6	—0·4	+0·3
Central India	+0·6	—0·1	+0·7	+1·1	+0·3	—1·7	—0·4	+0·3	—0·4	+1·4	—0·1	0	+0·1
Central Provinces	+1·1	0	+1·1	+1·0	+0·1	—1·1	—0·8	+0·2	—0·5	+1·9	+0·9	—0·1	+0·3
Hyderabad	+2·3	+0·5	+1·7	+0·7	+0·4	+0·2	0	0	+0·3	+1·2	+2·0	—0·5	+0·7
Mysore	+1·3	+0·3	+0·3	—1·7	—1·0	—0·9	—0·8	—1·2	—0·5	—0·9	+1·6	—1·0	—0·4
Madras	+1·8	+0·8	+0·5	—0·7	—0·4	—0·2	—0·3	—0·7	0	—0·8	+1·3	—0·5	+0·1
Mean of India	+0·8	+0·2	+0·6	+0·3	+0·3	—0·5	—0·7	—0·4	—0·2	+0·8	+0·5	—0·2	+0·1

I.—The cold weather period.—(*a*) Skies were abnormally free from cloud in the Punjab, the North-West Frontier Province and Sind, covered to the customary extent in Rajputana and unusually cloudy in the remaining plains divisions.

(*b*) The cloud proportion for the period was on the whole low in Persia, Arabia, Baluchistan and the mountain zone bordering the Punjab, and was high in the hills of north-east India.

II.—The hot weather period.—(*a*) On the mean of the whole season there was appreciably less cloud than usual in the Punjab, the North-West Frontier Province and Mysore, but elsewhere in the plains the quantity of cloud was either about normal or above it. The greatest excess, amounting to about 1·0, occurred in Burma, Bihar and Orissa, Bombay and Hyderabad.

(*b*) In Persia the cloud was heavy in March and April and unusually light in May, an indication that the winter actions there did not outlast April. In Baluchistan and the Afghan hills the cloud amount was in defect in March and May, and in excess in April; while in Kashmir and the Punjab hills skies were comparatively clear almost throughout the season. In the hill districts of north-east India the quantity of cloud was on the whole greater than usual.

III.—The south-west monsoon period.—(*a*) There was appreciably less cloud than usual in Sind, the North-West Frontier Province, the Punjab, Central India, the Central Provinces, Bombay, Rajputana, Mysore, Burma and Assam, the defect in the last four divisions persisting throughout the season. Elsewhere in the plains the amount of cloud recorded during the period as a whole was nearly normal.

(*b*) In Kashmir there was less than the average amount of cloud, while in Baluchistan skies were clouded to about the usual extent.

(*c*) Cloud was in excess in western Persia in June and August, in north-east Persia in July and September, in Kabul in July, and in south Arabia in June and July, when the monsoon was less active than usual in India.

IV.—The retreating south-west monsoon period.—(*a*) In most parts of the country the sky was covered to more than the average extent in October and November, and was clearer even than usual in December. On the mean of the whole period the quantity of cloud was in appreciable defect in the Punjab, the North-West Frontier Province and Sind, and in decided excess in Burma, Bengal, Bihar and Orissa, the Central Provinces and Hyderabad; elsewhere the state of the skies was very nearly normal.

(*b*) In Persia, Arabia, Baluchistan, Kabul and Kashmir skies were abnormally clear all through the season. Cloud was, on the other hand, unusually heavy for the time of year in the Assam hills.

The year.—On the average of the year and of the whole of the observatories in the plains the cloud amount was about 2 per cent above the normal. The only months with less cloud than usual were June, July, August, September and December, and in only the first three was the defect at all marked.

The general departures of cloud were parallel with those of rainfall in ten of the twelve months, and with those of absolute humidity in eleven months.

The statement below shows the inter-dependence of these three elements:

TABLE 30.

	Departure from normal of Indian area.												
	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Cloud amount at 8 hours	+0·8	+0·2	+0·6	+0·4	+0·3	—0·5	—0·7	—0·4	—0·2	+0·8	+0·5	—0·2	+0·1
Vapour pressure at 8 hours	+·017	+·010	+·051	+·001	+·028	—·009	—·010	—·007	+·013	+·073	+·036	—·018	+·015
Rainfall (percentage departure)	+22	+83	+154	—4	+36	—1	—15	—11	—3	+32	+59	+59	+2

Snowfall.

(A).—The cold weather of 1914-15 and the succeeding hot weather :—

(*a*) In Persia the precipitation was heavier than usual in November, March and April, and was below the normal in the intervening months as well as in May.

(*b*) In Afghanistan, as represented by Kabul, the winter began in October, much before its normal date, and was on the whole more severe than usual. Very heavy snow fell in the Kabul region in October and November, and moderately heavy snow in April. The falls in April were followed by heavy rainfall which helped greatly the melting of the snow accumulations. More snow fell in May, and at the end of the month there still remained a residue of about 2½ feet on the Hindu Kush range and of about 1½ feet on the Paghman, Shakardara, Guldara and Bagtut ranges, which amounts are slightly above the average.

(*c*) In Baluchistan the precipitation was heavy in October, November, February and April, and normal or in defect during the rest of the season.

(*d*) On the mountains of the North-West Frontier Province there was distinctly more snowfall than usual in October and November, but the quantity of snow received during the period December to March was by no means excessive. In April there were some heavy local falls, while in May, according to the few reports available, the fall was insignificant.

(*e*) In Kashmir the snowfall was apparently heavier than usual in October, November, December and February, distinctly below the normal in January and March, and about the average or in excess in April in which month there was also heavy rain. No important falls are reported to have occurred in May, except perhaps on the ranges near Leh and Kargil.

(*f*) In the Punjab Himalayas there was a marked excess in October, November and February and a defect in January, but in December and March the fall was very nearly normal. In April untimely falls occurred in some localities down to very low levels; but little snow fell during May. The accumulations existing at the end of May were of about normal depth in Kulu, Lahoul and Spiti and less than usual on the ranges near Kilba.

(*g*) In the Kumaon hills the snowfall during the winter was on the whole less than usual, and at the end of May the accumulations were distinctly below the average.

(*h*) In the eastern Himalayas, according to the scanty information available, the snowfall conditions were not markedly abnormal, notwithstanding that heavy snow fell locally in March.

On the whole it may be said that although the winter began unusually early and was severe in the earlier part there were no abnormally heavy and widespread snowfalls in the latter part of the season. In April in addition to some late falls of snow much rain fell and aided in the melting of the accumulations, with the result that in the beginning of June the unmelted residue was either of about the average thickness or less than usual, except locally in Afghanistan. On the other hand the conditions characteristic of the winter lasted appreciably longer than usual.

(B).—The south-west monsoon period, June to September :—

During June snow fell on three or four occasions on the middle and higher ranges of the western Himalayas, but the amounts received were light. The unmelted residue of the accumulations at the end of the month was of about normal depth, except locally in the Afghan hills where it was somewhat thicker than usual.

In July there were only a few light local falls in the mountain zone bordering upper India, and the accumulations existing at the end of the month were on the whole nearly normal, both in depth and extent.

During August there was but little snowfall outside of Almora and even there it was by no means unusual. According to the available information the accumulations existing at the end of the month in the western Himalayas were, if anything, of less than the average depth.

In September except locally in the Kulu and Almora hills the snowfall of the month in the western Himalayas, for which alone information is available, was lighter even than usual.

(C).—The period October to December :—

In October there was on the whole less snowfall than usually occurs in the mountain zone bordering upper India.

In November and December there was on the whole decidedly less snowfall than is usual, and the accumulations existing at the beginning of January 1916 were of less than the average depth, except perhaps in parts of the Almora hills.

Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The twenty-fifth volume, that of 1915, contains the whole rainfall data of 2,865 stations which are there classified under their respective administrative divisions according to the following scheme :—

Province.	Number of stations.
Burma	213
Assam	125
Bengal	227
Bihar and Orissa	292
United Provinces of Agra and Oudh	276
Punjab	189
Kashmir	38
North-West Frontier Province	36
Baluchistan	94
Rajputana	186
Bombay	289
Central India	118
Central Provinces	179
Hyderabad	18
Mysore	77
Coorg	10
Madras (including Puddukkottai, Travancore and Cochin)	498
Total	2,865

The information includes monthly statements of—

(*a*) the actual rainfall, day by day, of all the rainfall stations ;

(*b*) the total rainfall of the month;

(*c*) the number of rainy days during the month ;

(*d*) the average or normal rainfall of the month of all stations for which rainfall data of at least five years are available ;

(*e*) the average or normal number of rainy days of the month for all stations for which rainfall data of five years or upwards are available.

Symon's rain gauges are now used at all rain-gauge stations with the exception of those in Mysore. The time of measuring rainfall is 8 hours by local time throughout India, and the amounts registered give the rainfall of the previous 24 hours, and hence generally of the previous civil day.

The tables 31 to 33 give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,400 rain-gauge stations for the 15 chief political divisions and the 33 sub-divisions respectively, while the third table (Table 33) contains data of the number of rainy days for the 33 sub-divisions for the four seasons into which the year has been divided.

The normals employed in this section are based on all the available records ending in 1910, and are given in Parts I and II of Volume XXII of Memoirs of the Indian Meteorological Department.

TABLE 31.—*Average over the 15 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1915, and for the whole year.*

Division.	January and February.				March to May.				June to September.				October to December.				Whole year.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"	
Burma	0·19	0·30	−0·11	− 37	15·17	10·40	+4·77	+ 46	54·50	58·54	−4·04	− 7	11·43	8·83	+2·60	+ 29	81·29	78·07	+3·22	+ 4
Assam	2·38	2·05	+0·33	+ 16	33·94	25·18	+8·76	+ 35	71·32	65·11	+6·21	+ 10	4·67	6·38	−1·71	− 27	112·31	98·72	+13·59	+ 14
Bengal	0·98	1·36	−0·38	− 28	16·87	12·43	+4·44	+ 36	55·94	55·70	+0·24	0	6·27	5·33	+0·94	+ 18	80·06	74·82	+5·24	+ 7
Bihar and Orissa	2·00	1·59	+0·41	+ 26	4·27	4·00	+0·27	+ 7	36·78	42·58	−5·80	− 14	6·87	3·30	+3·57	+108	49·92	51·47	−1·55	− 3
United Provinces	3·02	1·53	+1·49	+ 97	2·46	1·24	+1·22	+ 98	37·06	33·82	+3·24	+ 10	2·13	1·88	+0·25	+ 13	44·67	38·47	+6·20	+ 16
Punjab	2·62	2·00	+0·62	+ 31	2·85	1·77	+1·08	+ 61	8·98	15·34	−6·36	− 41	0·68	0·72	−0·04	− 6	15·13	19·83	−4·70	− 24
North-West Frontier Province	2·34	2·88	−0·54	− 19	6·79	4·23	+2·56	+ 61	5·53	8·49	−2·96	− 35	0·78	1·17	−0·39	− 33	15·44	16·77	−1·33	− 8
Sind	0·07	0·59	−0·52	− 88	0·75	0·41	+0·34	+ 83	0·74	5·29	−4·55	− 86	0·38	0·16	+0·22	+137	1·94	6·45	−4·51	− 70
Rajputana	1·67	0·62	+1·05	+169	1·70	0·71	+0·99	+139	8·06	19·51	−11·45	− 59	1·48	0·66	+0·82	+124	12·91	21·50	−8·59	− 40
Bombay	0·41	0·17	+0·24	+141	1·82	1·47	+0·35	+ 24	33·81	40·68	−6·87	− 17	4·73	3·21	+1·52	+ 47	40·77	45·53	−4·76	− 10
Central India	1·64	0·87	+0·77	+ 89	1·57	0·64	+0·93	+145	26·39	33·27	−6·88	− 21	2·68	1·29	+1·39	+108	32·28	36·07	−3·79	− 11
Central Provinces	1·73	0·95	+0·78	+ 82	3·18	1·46	+1·72	+118	38·80	39·48	−0·68	− 2	5·44	2·37	+3·07	+130	49·15	44·26	+4·89	+ 11
Hyderabad	0·98	0·30	+0·68	+227	3·81	1·77	+2·04	+115	28·61	26·85	+1·76	+ 7	6·72	3·82	+2·90	+ 76	40·12	32·74	+7·38	+ 23
Mysore	0·49	0·22	+0·27	+123	5·67	5·47	+0·20	+ 4	24·34	22·30	+2·04	+ 9	7·94	8·05	−0·11	− 1	38·44	36·04	+2·40	+ 7
Madras	2·05	1·01	+1·04	+103	5·33	4·63	+0·70	+ 15	26·06	24·18	+1·88	+ 8	15·73	13·74	+1·99	+ 14	49·17	43·56	+5·61	+ 13
Mean of India	1·51	0·98	+0·53	+ 54	6·26	4·41	+1·85	+ 42	31·88	34·88	−3·00	− 9	5·86	4·16	+1·70	+ 41	45·51	44·43	+1·08	+ 2

TABLE 32.—*Average over the 33 sub-divisions of the actual and normal rainfall for the four seasons of the year 1915 and for the whole year.*

Sub-division.	January and February.				March to May.				June to September.				October to December.				Whole year.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Actual.	Normal.	Departure from normal.
	"	"	"		"	"	"		"	"	"		"	"	"		"	"	"
1. Bay Islands	2·00	1·24	+0·76	+ 61	10·63	15·38	—4·75	—31	43·04	61·44	—18·40	—30	31·75	20·73	+11·02	+ 53	87·42	98·79	—11·37
2. Lower Burma	0·29	0·37	—0·08	— 22	19·59	15·15	+4·44	+29	94·59	103·18	— 8·59	— 8	17·36	10·46	+6·90	+ 66	131·83	129·16	+ 2·67
3. Upper Burma	0·12	0·27	—0·15	— 56	12·39	7·35	+5·04	+69	28·53	29·67	— 1·14	— 4	7·58	7·77	—0·19	— 2	48·62	45·06	+ 3·56
4. Assam	2·38	2·05	+0·33	+ 16	33·94	25·18	+8·76	+35	71·32	65·11	+ 6·21	+10	4·67	6·38	—1·71	— 27	112·31	98·72	+13·59
5. Bengal	0·98	1·36	—0·38	— 28	16·87	12·43	+4·44	+36	55·94	55·70	+ 0·24	0	6·27	5·33	+0·94	+ 18	80·06	74·82	+ 5·24
6. Orissa	1·49	1·42	+0·07	+ 5	5·60	5·65	—0·05	— 1	36·84	44·25	— 7·41	—17	14·88	5·41	+9·47	+175	58·81	56·73	+ 2·08
7. Chota Nagpur	1·94	2·32	—0·38	— 16	3·25	3·62	—0·37	—10	30·26	43·58	—13·32	—31	3·85	2·51	+1·34	+ 53	39·30	52·03	—12·73
8. Bihar	2·26	1·32	+0·94	+ 71	4·07	3·38	+0·69	+20	39·98	41·25	— 1·27	— 3	4·33	2·63	+1·70	+ 65	50·64	48·58	+ 2·06
9. United Provinces, East	2·13	1·21	+0·92	+ 76	1·69	1·10	+0·59	+ 54	45·76	34·51	+11·25	+33	3·94	2·41	+1·53	+ 63	53·52	39·23	+14·29
10. Ditto, West	3·77	1·79	+1·98	+111	3·13	1·35	+1·78	+132	29·66	33·22	— 3·56	—11	0·60	1·43	—0·83	— 58	37·16	37·79	— 0·63
11. Punjab, East and North	3·31	2·30	+1·01	+ 44	3·14	1·90	+1·24	+ 65	11·18	18·17	— 6·99	—38	0·84	0·85	—0·01	— 1	18·47	23·22	— 4·75
12. Do., South-west	0·53	1·06	—0·53	— 50	1·98	1·36	+0·62	+ 46	2·20	6·59	— 4·39	- 67	0·24	0·34	—0·10	— 29	4·95	9·35	— 4·40
13. Kashmir	7·43	7·09	+0·34	+ 5	9·71	9·08	+0·63	+ 7	15·21	22·19	— 6·98	—31	1·13	2·89	—1·76	— 61	33·48	41·25	— 7·77
14. North-West Frontier Province	2·34	2·88	—0·54	— 19	6·79	4·23	+2·56	+ 61	5·53	8·49	— 2·96	—35	0·78	1·17	—0·39	— 33	15·44	16·77	— 1·33
15. Baluchistan	0·60	2·71	—2·11	— 78	3·89	2·03	+1·86	+ 92	0·65	1·87	— 1·22	—65	0·13	1·03	—0·90	— 87	5·27	7·64	— 2·37
16. Sind	0·07	0·59	—0·52	— 88	0·75	0·41	+0·34	+ 83	0·74	5·29	— 4·55	—86	0·38	0·16	+0·22	+137	1·94	6·45	— 4·51
17. Rajputana, West	1·21	0·48	+0·73	+152	0·67	0·56	+0·11	+ 20	3·10	11·74	— 8·64	—74	1·22	0·26	+0·96	+369	6·20	13·04	— 6·84
18. Do., East	1·91	0·68	+1·23	+181	2·20	0·78	+1·42	+182	10·70	22·92	—12·22	—53	1·60	0·83	+0·77	+ 93	16·41	25·21	— 8·80
19. Gujarat	0·27	0·16	+0·11	+ 69	0·65	0·24	+0·41	+171	14·11	31·42	—17 31	—55	3·82	0·83	+2·99	+360	18 85	32·65	—13·80
20. Central India, West	1·53	0·59	+0·94	+159	1·51	0·48	+1·03	+215	20·92	31·50	—10·58	—34	3·01	1·01	+2·00	+198	26·97	33·58	— 6·61
21. Ditto, East	1·77	1·16	+0·61	+ 53	1·63	0·79	+0·84	+106	33·03	35·05	— 2·02	— 6	2·27	1·58	+0·69	+ 44	38·70	38·58	+ 0·12
22. Berar	1·42	0·62	+0·80	+129	3·98	0·95	+3·03	+319	27·00	28·17	— 1·17	— 4	5·64	2·46	+3·18	+129	38·04	32·20	+ 5·84
23. Central Provinces, West	1·45	1·05	+0·40	+ 38	3·26	1·14	+2·12	+186	41·68	40·97	+ 0·71	+ 2	4·77	2·18	+2·59	+119	51·16	45·34	+ 5·82
24. Ditto, East	2·18	1·12	+1·06	+ 95	2·50	2·10	+0·40	+ 19	44·85	46·37	— 1·52	— 3	5·88	2·46	+3·42	+139	55·41	52·05	+ 3·36
25. Konkan	0·19	0·13	+0·06	+ 46	1·70	1·85	—0·15	— 8	87·59	102·48	—14·89	—15	6·56	4·90	+1·66	+ 34	96·04	109·36	—13·32
26. Bombay Deccan	0·59	0·20	+0·39	+195	2·62	2·13	+0·49	+ 23	27·17	24·42	+ 2·75	+11	4·63	4·13	+0·50	+ 12	35·01	30·88	+ 4·13
27. Hyderabad, North	1·09	0·28	+0·81	+289	3·56	1·49	+2·07	+139	29·13	29·77	— 0·64	— 2	4·83	3·56	+1·27	+ 36	38·61	35·10	+ 3·51
28. Do., South	0·92	0·31	+0·61	+197	4·07	2·05	+2·02	+ 99	28·10	23·98	+ 4·12	+17	6·41	4·08	+4·33	+106	41·50	30·42	+11·08
29. Mysore	0·49	0·22	+0·27	+123	5·67	5·47	+0·20	+ 4	24·34	22·30	+ 2·04	+ 9	7·94	8·05	—0·11	— 1	38·44	36·04	+ 2·40
30. Malabar	0·47	0·59	—0·12	— 20	8·00	10·65	—2·65	— 25	93·26	102·29	— 9·03	— 9	17·79	13·96	+3·83	+ 27	119·52	127·49	— 7·97
31. Madras, South-east	2·42	1·42	+1·00	+ 70	4·99	4·71	+0·28	+ 6	14·79	11·76	+ 3·03	+26	16·00	17·27	—1·27	— 7	38·20	35·16	+ 3·04
32. Do. Deccan	1·23	0·57	+0·66	+116	4·49	2·47	+2·02	+ 82	17·16	14·84	+ 2·32	+16	8·12	6·70	+1·42	+ 21	31·00	24·58	+ 6·42
33. Do. Coast, North	2·35	0·74	+1·61	+218	5·44	3·53	+1·91	+ 54	27·77	24·65	+3·12	+13	17·71	10·62	+7·09	+ 67	53·27	39·54	+13·73

TABLE 33.—*Average over the 33 sub-divisions of the actual and normal number of rainy days for the four seasons of the year 1915, and for the whole year.*

Sub-division.	January and February.			March to May.			June to September.			October to December.			Whole year		
	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.	Actual.	Normal.	Departure from normal.
1. Bay Islands	3·0	2·0	+1·0	13·5	17·5	—4·0	60·5	74·2	—13·7	29·0	26·7	+2·3	106·0	120·4	—14·4
2. Lower Burma	0·6	0·6	0	18·9	15·8	+3·1	83·1	90·9	—7·8	20·0	14·3	+5·7	122·6	121·6	+1·0
3. Upper Burma	0·3	0·7	—0·4	17·4	10·9	+6·5	41·4	42·0	—0·6	11·4	11·0	+0·4	70·5	64·6	+5·9
4. Assam	5·2	5·0	+0·2	35·8	32·7	+3·1	67·1	68·2	—1·1	6·9	8·7	—1·8	115·0	114·6	+0·4
5. Bengal	2·7	2·5	+0·2	19·9	15·6	+4·3	58·2	59·9	—1·7	7·5	6·0	+1·5	88·3	84·0	+4·3
6. Orissa	2·3	2·4	—0·1	9·7	9·2	+0·5	49·8	53·8	—4·0	13·6	6·8	+6·8	75·4	72·2	+3·2
7. Chota Nagpur	3·2	4·3	—1·1	6·3	7·0	—0·7	42·7	52·8	—10·1	6·9	3·8	+3·1	59·1	67·9	—8·8
8. Bihar	4·7	2·8	+1·9	6·2	5·5	+0·7	43·3	45·7	—2·4	4·6	3·1	+1·5	58·8	57·1	+1·7
9. United Provinces, East	5·7	2·7	+3·0	3·9	2·4	+1·5	42·4	38·1	+4·3	3·0	2·5	+0·5	55·0	45·7	+9·3
10. Ditto, West	5·8	3·5	+2·3	6·1	3·1	+3·0	31·4	34·0	—2·6	1·4	1·9	—0·5	44·7	42·5	+2·2
11. Punjab, East and North	5·8	4·3	+1·5	5·4	4·2	+1·2	16·0	19·7	—3·7	1·4	1·5	—0·1	28·6	29·7	—1·1
12. Punjab, South-west	1·4	2·6	—1·2	4·3	3·5	+0·8	4·3	8·6	—4·3	0·5	0·8	—0·3	10·5	15·5	—5·0
13. Kashmir	8·2	9·9	—1·7	12·0	14·6	—2·6	21·7	24·1	—2·4	2·5	4·5	—2·0	44·4	53·1	—8·7
14. North-West Frontier Province.	3·7	5·6	—1·9	10·1	8·6	+1·5	9·6	12·1	—2·5	1·5	2·1	—0·6	24·9	28·4	—3·5
15. Baluchistan	1·6	6·0	—4·4	7·4	5·3	+2·1	1·5	3·3	—1·8	0·3	2·6	—2·3	10·8	17·2	—6·4
16. Sind	0·2	1·6	—1·4	2·1	1·0	+1·1	1·8	6·1	—4.3	0·6	0·3	+0·3	4·7	9·0	—4·3
17. Rajputana, West	2·1	1·1	+1·0	1·4	1·5	—0·1	5·7	14·8	—9·1	1·9	0·5	+1·4	11·1	17·9	—6·8
18. Ditto, East	4·1	1·7	+2·4	4·2	1·9	+2·3	18·0	27·8	—9·8	2·5	1·3	+1·2	28·8	32·7	—3·9
19. Gujarat	0·7	0·4	+0·3	1·3	0·5	+0·8	20·1	34·8	—14·7	5·2	1·3	+3·9	27·3	37·0	—9·7
20. Central India, West	3·5	1·4	+2·1	4·0	1·3	+2·7	27·6	37·9	—10·3	5·2	1·7	+3·5	40·3	42·3	—2·0
21. Ditto, East	4·2	2·4	+1·8	4·6	1·9	+2·7	32·5	37·2	—4·7	3·2	2·1	+1·1	44·5	43·6	+0·9
22. Berar	1·6	1·2	+0·4	7·6	2·3	+5·3	33·4	38·7	—5·3	8·3	3·6	+4·7	50·9	45·8	+5·1
23. Central Provinces, West	3·4	2·1	+1·3	7·3	2·6	+4·7	41·7	47·2	—5·5	7·5	3·1	+4·4	59·9	55·0	+4·9
24. Ditto, East	3·6	2·1	+1·5	5·6	4·3	+1·3	45·7	51·1	—5·4	7·1	3·6	+3·5	62·0	61·1	+0·9
25. Konkan	0·4	0·3	+0·1	3·4	2·5	+0·9	67·2	84·5	—17·3	10·3	7·0	+3·3	81·3	94·3	—13·0
26. Bombay Deccan	1·2	0·5	+0·7	5·5	4·0	+1·5	37·8	37·4	+0·4	7·1	6·3	+0·8	51·6	48·2	+3·4
27. Hyderabad, North	1·2	0·7	+0·5	7·4	3·4	+4·0	37·0	41·2	—4·2	7·1	5·2	+1·9	52·7	50·5	+2·2
28. Ditto, South	1·3	0·8	+0·5	8·4	4·3	+4·1	33·4	37·6	—4·2	8·7	6·3	+2·4	51·8	49·0	+2·8
29. Mysore	1·0	0·4	+0·6	10·1	9·0	+1·1	36·3	33·6	+2·7	13·6	12·1	+1·5	61·0	55·1	+5·9
30. Malabar	1·0	0·8	+0·2	12·1	13·0	—0·9	75·8	85·3	—9·5	21·7	18·0	+3·7	110·6	117·1	—6·5
31. Madras, South-east	3·4	2·0	+1·4	7·5	7·0	+0·5	21·9	18·3	+3·6	19·7	20·8	—1·1	52·5	48·1	+4·4
32. Do. Deccan	2·2	0·6	+1·6	6·9	4·3	+2·6	28·3	24·9	+3·4	10·6	9·7	+0·9	48·0	39·5	+8·5
33. Do. Coast, North	3·3	0·9	+2·4	8·7	5·6	+3·1	35·9	35·2	+0·7	17·2	10·9	+6·3	65·1	52·6	+12·5

I.—The cold weather period.—Meteorologically the season was very abnormal. Of the disturbances recorded during January three were well marked, but they were of an unusual type, and the associated rainfall was very abnormal in distribution. Nearly the whole of the Peninsula, the Central Provinces, Central India, Gujarat, Rajputana, the United Provinces West, Lower Burma and the Bay Islands received more rain than usual, and some parts of the Peninsula from five to nine times the normal fall of the month. On the other hand the rainfall in the tract of country extending from the north of Burma to the North-West Frontier Province as well as in Baluchistan fell appreciably short of the average.

During February there was more rain than usual in most parts of the country, and this was caused chiefly by a disturbance of the cold weather type between the 3rd and the 6th.

The combined rainfall of January and February was more or less above the average throughout the country with the exception of Burma, Bengal, Chota Nagpur, the Punjab South-west, the North-West Frontier Province, Baluchistan, Sind and Malabar. The excess amounted to 2″ in the United Provinces West, 1½″ in the Madras Coast North and about an inch in Bihar, the United Provinces East, the Punjab East and North, Rajputana East, Central India West, the Central Provinces East and Madras South-east. In the region of scanty rainfall the largest defect occurred in Baluchistan which obtained only 0·6″ in place of 2·7″, the normal for the season.

The most striking features of the rainfall distribution of the period thus were : (1) a considerable defect in the western parts of north-west India, the usual region of winter rains, and (2) an excess over most of the Peninsula where comparatively little rain is received under ordinary conditions.

In Persia, Arabia and Kabul the total precipitation of the period was in even greater defect than in the north-west of India.

TABLE 34.

Station.	Rainfall of period, January and February.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Aden	0	0·61	−0·61	−100
Bushire	1·20	4·74	−3·54	−75
Tehran	1·41	2·73	−1·32	−48
Ispahan	0·47	1·07	−0·60	−56
Jask	0·04	1·65	−1·61	−98
Muscat	0·30	1·86	−1·56	−84
Meshed	0·58	1·71	−1·13	−66
Kabul	0	2·93	−2·93	−100

II—The hot weather period.—The meteorology of the first half of the period was essentially similar to that of the cold season, and accordingly the commencement of the hot weather occurred in the third week of April, about six weeks after the average date.

March was remarkably wet over by far the greater part of the country. In northern India this was owing to depressions of the cold weather type aided by a pressure distribution favourable to an inflow of damp air from the Bay, and in the Peninsula due to a peculiar disturbance during the first week. Three cold weather disturbances affected northern India during the first fortnight of April and one of these gave rise to widespread precipitation in the United Provinces, the Punjab and the surrounding hills. In the Simla hills snow fell down to unusually low levels as late as the 7th. In north-east India the influx of damp air was less than usual, but in Burma and the Peninsula conditions were on the whole very nearly normal. The May rainfall was unusually heavy in Burma, Bengal and Assam, and about normal or in defect in the remainder of the country. The defect was greatest actually in the Bay Islands and on the Malabar coast, and was in both cases a result mainly of the absence of the usual preliminary advances of the monsoon.

The total rainfall of the period, March to May, was deficient by 31 per cent. in the Bay Islands and 25 per cent. in Malabar, departed by 20 per cent. or less in Orissa, Chota Nagpur, Kashmir, Rajputana West, the Konkan, the Central Provinces East, Mysore and Madras South-east, and was unusually abundant elsewhere, ranging in some parts between two and four times the normal quantity.

In Persia and Kabul the weather was more disturbed than usual in March and April and unusually quiet in May.

TABLE 35.

Station.	Departure from normal of rainfall in			
	March.	April.	May	Period, March to May.
	″	″	″	″
Aden	−0·62	−0·20	−0·13	−0·95
Busrah	−1·09	−0·48	−0·46	−2·03
Bushire	+3·14	+0·80	−0·02	+3·92
Tehran	+0·75	+1·73	−0·23	+2·25
Ispahan	+1·51	+0·05	+0·35	+1·91
Jask	−0·77	+0·12	0	−0·65
Muscat	−0·66	+1·15	0	+0·49
Meshed	+1·36	+1·99	−1·34	+2·01
Kabul	−0·77	+14·09	−0·85	+12·47

At the stations in the Indian Ocean the season was on the whole drier than usual.

TABLE 36.

Station.	Departure from normal of rainfall in			
	March.	April.	May.	Period, March to May.
	"	"	"	"
Zanzibar	+0·01	−4·23	−1·12	−5·34
Seychelles	−5·50	+1·92	−0·06	−3·64
Mauritius	+0·98	−2·22	−0·22	−1·46

III.—The south-west monsoon period.—The Arabian Sea monsoon arrived on the west coast about the middle of June, a fortnight after the normal date, and although it gave abundant rain to the greater part of the Peninsula, it failed to penetrate properly into regions further north. The Bay current set in very gradually and at first provided less rain than usual, with the result that over practically the whole tract from Bihar and Orissa to the valley of the Indus the rainfall of June was more or less in defect of the normal. During July there was a marked break between the 2nd and the 12th, and although thereafter there was a gradual improvement in the general activity of the currents, the monsoon failed to extend satisfactorily into north-west India. But little change occurred in the general behaviour of the monsoon in August, the chief features of which were an almost complete break in the field of the Arabian Sea current between the 9th and the 20th, and the accentuation of the drought in north-west India. A marked increase in the activity of the monsoon took place in September and with but slight variation lasted up to the 12th of October, when winter actions set in over northern India. The improvement was most noticeable in north-west India in parts of which favourable rain occurred, and the drought which at one time threatened to prove as serious as in 1877 was mitigated considerably.

As usually happens during seasons of weak monsoon conditions there were comparatively few cyclonic disturbances, and of these the only noteworthy one was that which occurred towards the end of August and caused a deluge of rain in the region round Lucknow and Cawnpore.

The total rainfall of the whole season, from June 1st to September 30th, in the plains of India was short of the normal by 5″ or 9 per cent. Its geographical distribution was also rather unfortunate: there was a deficit over the whole of northern and central India excluding Assam, Bengal, the United Provinces East and the Central Provinces West, and an excess over the Peninsula with the exception of Hyderabad North, the Konkan and Malabar. Of positive percentage departures from normal rainfall the most marked occurred in the United Provinces East and Madras South-east, where the excesses were 33 per cent. and 26 per cent., respectively. On the other hand the deficit was most pronounced in north-west India which barely received half its normal supply: in Sind the recorded fall was only 14 per cent. and in Rajputana West only 26 per cent. of the normal. The shortage was large also in Chota Nagpur (31 per cent.), Central India West (34 per cent.) and the Bay Islands (30 per cent.).

In Burma the recorded quantity was very nearly normal.

For meteorological purposes India is divided into 33 sub-divisions, and taking the whole season from 1st June to 30th September, in two of these the rainfall was in excess of the normal by more than 20 per cent., in 19 within 20 per cent. of the normal and in the twelve remaining divisions in defect by more than 20 per cent.

The most marked features of the monsoon of 1915 thus were: (*a*) its late arrival; (*b*) its weakness and unsteadiness in July and August, particularly in the usual field of the Arabian Sea current; (*c*) its failure to penetrate into north-west India before the middle of September; (*d*) its continuance up to about the middle of October in north-west India, where as a rule the rains come to an end in the second week of September; and (*e*) its unusual concentration in the Peninsula to the detriment of northern India.

In Kabul rainfall was equal to the small normal amount, but in Persia and Arabia the season was drier even than usual.

TABLE 37.

Station.	Rainfall of period, June to September.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	"	"	"	
Aden	0	0·37	−0·37	−100
Busrah	0	0·19	−0·19	−100
Bushire	0	0·01	−0·01	−100
Tehran	0·11	0·43	−0·32	−74
Jask	0	0·06	−0·06	−100
Muscat	0	0·17	−0·17	−100
Meshed	0·57	0·45	+0·12	+27
Kabul	0·56	0·55	+0·01	+ 2

IV.—The retreating south-west monsoon period.—The monsoon was remarkably active during the first fortnight of October and gave rise to rain that was unusually heavy for the time of year in most parts of north-western and central India. In Gujarat, where exceedingly dry weather had prevailed hitherto, the month's fall was above the normal by upwards of 3″ or 500 per cent. This proved to be the final burst of monsoon rainfall of 1915 in the western and central parts of the country; and from the 14th onwards the rainfall was confined almost entirely to Bengal, Assam and Burma, to the detriment of Madras where the retreating monsoon rains usually set in during the second week of October. In November also the monsoon was more vigorous than usual, and there was abundant rainfall in the east and south of the Peninsula and the greater part of north-east India. In north-west and central India generally, on the other hand, weather was drier even than usual. Weather in December was determined mainly by three disturbances. The first of these starting from an origin to the south-west of the Andamans travelled towards

the coast of Tenasserim, and gave rise to widespread rainfall over Burma and the Bay Islands between the 2nd and the 5th. The 2nd, which was of the cold weather type, occurred about the middle of the month and was the cause of light to moderate precipitation in south Baluchistan, the Punjab and the surrounding hills. The third arose over the Bay to the east of Ceylon on the 24th, and in conjunction with a depression over Gujarat produced extensive rainfall over the tract of country stretching from the north of the Central Provinces to the extreme south of the Peninsula.

The total rainfall of the season was either normal or in excess in all the fifteen political divisions with the exception of Assam and the North-West Frontier Province, where deficiencies of 27 and 33 per cent., respectively, were recorded. The excess amounted to about 3½″ in Bihar and Orissa, 3″ in the Central Provinces and Hyderabad, 2½″ in Burma and 2″ in Madras.

There was a deficit of 61 per cent. in Kashmir and of 87 per cent. in Baluchistan.

The chief features of the period thus were :—

(1) The occurrence of very opportune rain in the first fortnight of October in north-west India, where the summer rains as a rule end in the second week of September, (2) the prevalence of a very vigorous monsoon during November in most of the Peninsula and north-east India, (3) the unseasonable rainfall in Burma in the first week of December, (4) the prolongation up to the end of December of the retreating south-west monsoon rains over the Peninsula, where dry winds usually set in in the second week, and (5) the almost entire absence during November and December of cold weather depressions and rainfall in upper India.

In Persia and Afghanistan where winter rains begin early in November weather was abnormally dry throughout.

TABLE 38.

Station.	Departure from normal of rainfall in			
	October.	November.	December.	Period, October to December.
	″	″	″	″
Aden	—0·08	—0·10	—0·13	—0·31
Bushire	—0·10	—1·56	—3·05	—4·71
Tehran	—0·30	—0·75	—1·07	—2·12
Jask	—0·04	—0·32	—1·27	—1·63
Muscat	—0·07	—0·35	—0·35	—0·77
Meshed	—0·39	—0·58	—0·43	—1·40
Kabul	—0·36	—0·68	—0·51	—1·55

The year—The total rainfall of the year in the plains of India exceeded the normal by 1·1″ or 2 per cent. The excess was not common to all the seasons, for the quantity received in the south-west monsoon period was short of the normal by 3″ or 9 per cent.

TABLE 39.

Period.	Rainfall of India (when the size of areas is taken into account) in 1915.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Cold weather	1·51	0·98	+0·53	+54
Hot do.	6·26	4·41	+1·85	+42
South-west monsoon	31·88	34·88	—3·00	—9
Retreating south-west monsoon.	5·86	4·16	+1·70	+41
Whole year	45·51	44·43	+1·08	+2

The local distribution was not quite satisfactory, as there was a defect of over 20 per cent. in the Punjab, Baluchistan, Sind, Rajputana, Gujarat and Chota Nagpur, and of between 10 and 20 per cent. in Kashmir, Central India West, the Konkan and the Bay Islands.

In Persia, as in north-west India, the total fall of the year was markedly deficient, while in Afghanistan, as represented by Kabul, there was a large excess due mainly to the excessive fall of April.

TABLE 40.

Station.	Annual Rainfall.			
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.
	″	″	″	
Aden	0	2·24	—2·24	—100
Bushire	6·78	11·07	—4·34	—39
Jask	0·22	4·17	—3·95	—95
Muscat	1·93	3·94	—2·01	—51
Meshed	8·97	9·37	—0·40	—4
Kabul	20·89	12·89	+8·00	+62

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Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 14 stations in India, etc., in the year 1915.

TABL

Abstract of observations taken at 10 hrs. and 16 hr

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 gravity, 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.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	III.—Bengal.																	
5	Calcutta	21	29·847	29·734	·113	29·789	+·001	29·757	87·9	72·1	15·8	103·4	49·3	54·1	82·1	85·1	79·4	+1·4
	VI.—Punjab.																	
11	Lahore	702	29·121	29·026	·095	29·066	−·005	29·733	91·3	64·7	26·6	117·4	33·8	83·6	80·5	89·5	76·9	+2·2
	IX.—Rajputana.																	
18	Jaipur	1,431	28·413	28·311	·102	28·357	−·020	29·715	92·0	67·5	24·5	113·5	39·1	74·4	83·1	89·7	78·5	+1·4
	X.—Bombay.																	
25	Bombay	37	29·879	29·781	·098	29·831	+·004	29·807	86·6	76·0	10·6	94·2	62·3	31·9	81·3	83·4	80·2	+0·9
	XIV.—Mysore.																	
29	Bangalore	3,021	26·961	26·849	·112	26·908	+·007	29·736	85·7	65·4	20·3	97·6	49·8	47·8	77·6	82·8	74·1	+1·3
	XV.—Madras.																	
31	Pudukkottai	318	29·603	29·465	·138	29·534	...	29·779	93·9	75·1	18·8	107·4	62·4	45·0	85·5	90·8	84·5	...
	Madras	22	29·886	29·774	·112	29·834	−·009	29·788	91·6	76·2	15·4	107·3	63·8	43·5	86·6	87·1	82·8	+1·0
	Hill stations, excluding Kashmir and Baluchistan.																	
	Sarain	...	23·167	23·110	·057	23·130	...	23·092	63·1	43·5	19·6	81·4	21·6	59·8	56·1	58·0	53·1	...
	Mukteswar*	7,592	22·795*	22·733*	·062	22·760*	...	22·717*	64·3	50·7	13·6	81·0	29·3	51·7	57·8	60·5	57·3	...
	Katmandu	4,388	25·710	25·618	·092	25·661	+·096*	25·615	77·1	55·8	21·3	89·0	30·8	58·2	67·7	73·0	66·1	+1·5‡
	Kodaikanal	7,688	22·858	22·793	·065	22·825	...	22·761	66·6	51·9	14·7	77·2	39·6	37·6	62·8	60·7	59·3	...
	Dodabetta†	8,539?	22·063	22·011	·052	22·035	...	21·972	59·9	48·9	11·0	68·3	41·9	26·4	57·3	57·3	54·2	...
	Extra India.																	
	Seychelles	15	29·988	29·894	·094	29·947	+·003†	29·886	83·3	78·1	5·2	88·3	72·8	15·5	81·4	82·4	79·4	+1·2‡
	Mauritius	181	...	...	...	29·893	+·009	30·021	78·9	64·0	14·9	88·0	55·5	32·5	...	...	73·4	+0·1

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 3,200 feet.

* Observations for 9 months.
† Mean of 4 months.
‡ „ „ 8 „

A.

t 14 stations in India, etc., in the year 1915.

Temperature, Wet-bulb.				Vapour tension in inches of mercury.					Humidity.					Cloud.				Rainfall.		Station.	Number of sub-division.
Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	From minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean 10 hrs.	Mean 16 hrs.	Mean of two previous columns.	Departure from normal.	Total rainfall for the year.	Heaviest rainfall during the year.		
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
																				III.—Bengal.	
69·7	74·5	74·8	73·0	·722	·774	·744	·763	+·019	88	68	61	75	— 2	4·9	5·5	5·2	+0·6	65·96	3·84	Calcutta	5
																				VI.—Punjab.	
59·6	66·9	69·8	65·5	·498	·520	·497	·515	+·017	76	49	36	56	0	1·9	2·1	2·0	—0·9	10·91	1·12	Lahore	11
																				IX.—Rajputana.	
59·6	66·4	67·7	64·6	·455	·470	·429	·459	—·006	63	40	31	48	— 5	2·6	3·8	3·2	—0·5	14·32	1·97	Jaipur	18
																				X.—Bombay.	
70·1	74·9	76·1	73·7	·664	·787	·807	·770	—·022	73	73	70	75	— 3	4·1	4·0	4·1	+0·3	77·68	9·80	Bombay	25
																				XIV.—Mysore.	
63·3	68·0	68·1	66·4	·554	·577	·521	·568	+·026	88	62	49	69	+ 1	4·4	5·4	4·9	...	37·64	2·80	Bangalore	29
																				XV.—Madras.	
...	76·1	77·1	...	...	·777	·757	...	...	...	63	53	...	...	4·3	5·5	4·9	...	38·48	2·20	Pudukkottai	31
73·5	77·3	78·0	76·2	·794	·815	·839	·833	+·024	88	65	66	76	0	4·5	4·3	4·4	—0·6	56·61	8·38	Madras.	
																				Hill stations, excluding Kashmir and Baluchistan.	
...	48·3	49·8	...	...	·283	·300	...	...	...	60	60	...	...	4·1	4·8	4·5	...	67·99	3·44	Sarain.	
45·3§	51·4	53·3	40·2§	·277§	·335	·353	·306§	...	72§	67	64	66§	...	5·9	6·6	6·3	...	58·40	3·56	Mukteswar.	
53·5	61·0	63·3	59·3	·419	·486	·495	·467	+·018	86	69	58	73	0	5·4	6·0	5·7	+1·2	68·54	3·25	Katmandu.	
47·8	55·5	56·3	53·2	·295	·369	·410	·358	...	75	66	78	73	...	5·1	7·5	6·3	...	53·70	2·99	Kodaikanal.	
42·1	50·9	52·3	48·4	·201	·308	·339	·280	...	57	67	73	65	...	6·6	7·7	7·1	...	39·47	3·09	Dodabetta.	
																				Extra India.	
72·1	76·2	76·4	74·9	·713	·837	·834	·812	0	74	77	75	78	— 3	5·7	6·0	5·9	—0·3‡	120·63	10·29	Seychelles.	
...	...	...	67·9	...	...	...	·612	—·008	...	...	...	73	— 2	...	...	...	...	33·88	3·11	Mauritius.	

§ Mean of 8 months.

‡ Departure from old normal.

Table B.—Abstract of observations taken at 8 hrs. at 220 stations in India, etc., in the year 1915.

(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 of year.	Temperature of air.								Wind	Hygrometry.				Cloud.		Rainfall.		
		Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Absolute range during year.	Departure of velocity from normal.	Mean humidity of year.	Departure from normal of year.	Mean vapour tension of year.	Departure from normal of year.	Mean cloud amount of year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.
	"	°	°	°	°	°	°	°	°				"	"				"	"
Burma	+·005	87·7	−0·1	71·3	+0·7	79·5	+0·3	16·5	26·1	−0·2	85	+1	·765	+·008	5·4	+0·6	81·29	78·07	+3·22
Assam	+·005	84·2	+0·3	67·7	+1·2	75·9	+0·8	16·5	28·1	−0·1	89	0	·721	+·021	5·2	−0·2	112·31	98·72	+13·59
Bengal	+·008	86·7	+0·4	70·4	+0·9	78·5	+0·6	16·3	28·1	−0·3	85	0	·766	+·016	4·7	+0·4	80·06	74·82	+5·24
Bihar and Orissa	+·006	88·6	+0·4	69·8	+1·2	79·2	+0·8	18·8	32·2	+0·1	76	+1	·689	+·026	4·2	+0·7	49·92	51·47	−1·55
United Provinces of Agra and Oudh	+·007	89·0	−0·3	67·3	+1·3	78·1	+0·5	21·7	36·0	−0·2	70	+1	·612	+·041	2·9	0	44·67	38·47	+6·20
Punjab	−·001	90·3	+1·5	64·7	+1·5	77·5	+1·5	25·8	41·7	+0·5	63	0	·506	+·012	2·1	−0·5	15·13	19·83	−4·70
North-West Frontier Province	−·025	89·8	+2·2	62·0	+1·1	75·9	+1·7	27·8	43·9	−0·3	65	+1	·497	+·010	1·7	−0·7	15·44	16·77	−1·33
Sind	+·002	92·2	+1·1	69·3	+1·1	80·7	+1·1	22·9	37·5	−0·4	66	+3	·620	+·038	2·1	−0·5	1·94	6·45	−4·51
Rajputana	−·004	92·8	+1·2	69·1	+2·0	80·9	+1·6	23·7	38·1	+0·5	50	−4	·464	−·018	2·4	−0·3	12·91	21·50	−8·59
Bombay	+·001	89·7	+0·3	69·9	+0·9	79·9	+0·6	19·9	31·6	−0·7	69	+1	·644	+·013	3·8	+0·3	40·77	45·53	−4·76
Central India	−·001	89·3	+0·6	66·5	+1·7	77·8	+1·2	22·5	36·7	+0·1	63	+2	·541	+·022	3·6	+0·1	32·28	36·07	−3·79
Central Provinces	+·001	90·0	+0·1	68·5	+1·5	79·2	+0·8	21·5	35·1	+0·8	63	+2	·552	+·026	3·7	+0·3	49·15	44·26	+4·89
Hyderabad	+·002	90·9	−0·2	70·2	+1·1	80·6	+0·5	20·7	33·2	+0·6	66	+2	·601	+·016	4·4	+0·9	40·12	32·74	+7·38
Mysore	+·003	85·9	+0·7	66·1	+1·1	76·0	+0·9	19·8	29·7	+0·7	76	+1	·595	+·008	5·0	−0·4	38·44	36·04	+2·40
Madras	0	90·5	+0·1	74·9	+1·1	82·7	+0·6	15·6	25·9	+0·6	77	+1	·784	+·020	4·6	−0·1	49·17	43·56	+5·61

TABLE

(2) *Abstract of observations taken at 8 hrs. at 220*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	I.—Burma.																				
2	Victoria Point	147	29·785	...	29·862	29·998	29·626	·372	·153	79·4	86·3	...	74·9	...	80·6	...	11·4	95·6	64·3	31·3	19·
	Mergui	66	29·872	+·004	29·868	30·096	29·703	·393	·155	77·4*	85·5*	—1·8*	72·0*	+0·5*	78·8*	—0·7*	13·5*	94·1	58·6	35·5	22·
	Tavoy	19	29·917	—·006	29·868	30·166	29·737	·429	·168	77·3	88·1	+0·2	73·0	+1·4	80·5	+0·8	15·1	98·0	53·6	44·4	23·
	Moulmein	94	29·839	+·010	29·871	30·092	29·602	·480	·183	76·5	88·5	+0·4	72·7	+0·2	80·6	+0·3	15·8	99·0	55·5	43·5	25·
	Rangoon	18	29·904	+·012	29·860	30·177	29·639	·538	·197	77·1	89·1	—0·2	73·5	+0·5	81·2	+0·1	15·6	101·0	60·7	40·3	24·
	Bassein	27	29·882	+·001	29·846	30·148	29·625	·523	·198	77·7	88·3	+0·3	74·0	+1·5	81·2	+0·9	14·4	99·2	60·9	38·3	22·
	Diamond Island	41	29·860	—·005	29·836	30·116	29·608	·508	·202	80·7	85·9	+0·7	77·1	+1·4	81·5	+1·0	8·9	92·4	69·0	23·4	15·
	Toungoo	164	29·749	+·011	29·856	30·026	29·466	·560	·197	76·1	89·7	—0·4	70·7	+0·2	80·2	—0·1	19·0	102·7	52·1	50·6	29·
	Kyaukpyu	18	29·874	...	29·832	30·140	29·533	·607	·220	78·1	85·3	...	72·3	...	78·9	...	13·0	97·2	56·2	39·0	22·
	Akyab	20	29·876	+·009	29·836	30·153	29·512	·641	·242	76·6	86·2	+0·3	71·8	—0·3	79·0	0	14·5	94·7	57·0	37·7	23·
3	Thayetmyo‖	121	29·838	+·032	29·903	30·097	29·522	·575	·181	76·0	94·4	—1·4	67·4	+1·2	80·9	—0·1	26·9	106·2	51·4	54·8	39·
	Minbu	*165*	29·723	—·001	29·833	30·063	29·396	·667	·213	76·8	90·7	—0·9	71·4	—0·1	8·10	—0·5	19·3	106·5	52·0	54·5	30·
	Yamethin	657	29·237	+·010	29·851	29·530	28·937	·602	·208	75·0	90·7	—0·7	70·7	+1·1	80·7	+0·2	20·0	104·1	52·8	51·3	30·
	Mandalay	250	29·652	+·018	29·853	29·995	29·294	·701	·223	77·3	93·1	+0·5	71·6	+0·3	82·3	+0·4	21·5	109·0	54·1	54·9	32·
	Monywa	*280*	29·609	—·003	29·841	29·949	29·225	·724	·229	75·5	92·2	+0·9	72·3	+1·2	82·2	+1·1	19·9	108·6	53·4	55·2	31·
	Lashio	*2,820*	27·104	—·005	27·050	27·371	26·776	·595	·219	65·8	81·0	—1·2	61·5	+1·2	71·2	0	19·5	94·9	42·0	52·9	30·
	Bhamo	*361*	29·531	+·024	29·853	29·895	29·157	·738	·244	70·3	86·2	+0·3	65·5	+0·4	75·9	+0·4	20·7	101·2	43·4	57·8	31·
	Myitkyina	458	29·416	+·002	29·843	29·783	29·025	·758	·251	69·5	84·0	—0·3	66·4	+0·5	75·2	+0·1	17·6	98·8	45·0	53·8	29·
	II.—Assam.																				
4	Dibrugarh	353	29·526	—·009	29·849	29·903	29·108	·795	·282	69·5	81·2	+0·4	66·4	+1·5	73·8	+1·0	14·8	93·6	43·5	50·1	26·
	Sibsagar	333	29·567	+·004	29·866	29·972	29·146	·826	·287	70·9*	81·6*	—0·3*	67·5*	+1·1*	74·5*	+0·4*	14·0*	93·6	43·1	50·5	25·
	Tezpur	252	29·637	+·009	29·853	30·012	29·213	·799	·284	71·4	83·9	+0·8	67·9	+1·1	75·9	+1·0	16·0	94·6	48·8	45·8	26·
	Gauhati	196	29·701	+·012	29·856	30·070	29·258	·812	·287	73·4	84·9	+0·3	67·5	+1·6	76·2	+0·9	17·4	95·8	47·3	48·5	28·
	Dhubri	115	29·762	+·011	29·834	30·159	29·300	·859	·293	73·7	83·0	+0·1	69·6	+1·7	76·3	+0·9	13·4	97·3	51·4	45·9	24·
	Silchar	104	29·794	+·006	29·852	30·177	29·349	·828	·264	73·5	86·2	+0·1	68·5	+1·0	77·4	+0·6	17·7	98·9	49·2	49·7	30·
	Srimangal	66	29·791	...	29·803	30·169	29·362	·807	·254	70·9	88·3	+0·8	66·2	+0·7	77·3	+0·7	22·1	101·4	43·5	57·9	34·
	III.—Bengal.																				
5	Cox's Bazar	86	29·841	...	29·823	30·150	29·412	·738	·247	74·9	85·9	...	70·1	...	78·1	...	15·8	93·9	53·3	40·6	25·
	Chittagong	87	29·797	+·008	29·831	30·114	29·365	·749	·251	74·7	85·4	+0·5	69·7	+0·3	77·6	+0·4	15·7	94·8	52·1	42·7	26·
	Noakhali	43	29·841	+·016	29·832	30·180	29·395	·785	·270	75·7	85·7	+1·1	70·6	+1·6	78·2	+1·4	15·1	97·3	48·8	48·5	26·
	Barisal	12	29·857	+·011	29·816	30·205	29·383	·822	·259	76·7	86·4	+0·4	71·1	+0·8	78·7	+0·6	15·3	98·1	47·6	50·5	27·
	Narayanganj	26	29·838	+·001	29·813	30·206	29·381	·825	·264	75·8	86·4	+0·1	71·0	+0·5	73·7	+0·3	15·5	98·9	51·2	47·7	25·
	Mymensingh	63	29·811	+·008	29·827	30·190	29·388	·802	·265	73·6	85·7	+1·0	70·3	+1·7	78·0	+1·4	15·4	100·1	51·3	48·8	26·
	Bogra	75	29·792	+·009	29·820	30·188	29·355	·833	·280	73·8	86·7	+0·4	69·4	+1·4	78·1	+0·9	17·3	106·4	48·0	58·4	29·
	Dinajpur	123	29·728	0	29·808	30·101	29·252	·819	·285	73·2	86·6	+0·5	68·3	+1·6	77·4	+1·0	18·3	105·8	42·8	63·0	31·
	Jalpaiguri	283	29·559	+·010	29·835	29·977	29·172	·805	·283	71·6	84·8	+0·8	67·1	+1·0	76·0	+0·9	17·7	94·7	44·0	50·7	23·
	Saugor Island	10	29·847	+·010	29·802	30·231	29·347	·884	·269	78·1	85·5	0	73·0	—0·6	79·2	—0·3	12·5	89·6	51·5	48·1	23·

N.B.—Elevations in italics indicate barometrical determinations.
* Mean of 11 months.
‖ " " 5 "

...ations in India, etc., in the year 1915.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									I.—Burma.
7	25	100	55	42	18	24	21	7	5·4	...	...	82	...	·829	...	5·7	...	146	...	...	169·03	...	...	5·75	Victoria Point.
0	10	10	6	15	4	3	1	1	1·5‡	1·4	+0·1	90†	+ 3†	·820†	+·011†	3·9	— 0·6	138	155·7	—17·7	142·15	163·22	—21·07	4·92	Mergui.**
6	42	60	24	37	27	41	5	12	1·8	1·1	+0·7	88	— 1	·824	+·018	4·3	+ 0·4	148	147·0	+ 1·0	198·13	215·84	—17·71	6·86	Tavoy.§
5	8	49	117	59	62	35	12	8	5·2	2·3	+2·9	88	+ 1	·811	+·010	6·0	+ 1·0	142	139·9	+ 2·1	169·31	187·86	—18·55	4·45	Moulmein.
9	47	63	39	26	75	41	21	20	3·8	3·1	+0·7	87	0	·823	+·017	5·7	+ 2·5	136	121·4	+14·6	109·73	97·63	+12·10	3·15	Rangoon††
4	10	18	21	20	26	26	13	7	3·3	3·2	+0·1	89	0	·853	+·030	5·9	+ 1·4	111	125·8	—14·8	104·60	109·77	— 5·17	5·23	Bassein.
9	48	56	27	19	28	68	38	42	6·5	6·4	+0·1	81	+ 1	·852	+·023	5·7	+ 0·6	100	112·9	— 3·9	127·02	116·61	+10·41	5·83	Diamond Island.
58	64	53	4	78	88	11	1	13	2·1	2·4	—0·3	85	— 1	·780	—·005	6·2	+ 0·9	112	114·3	— 2·3	83·54	82·26	+ 1·28	4·30	Toungoo.
28	12	47	78	35	23	10	17	15	2·7	...	...	87	...	·841	...	6·2	...	128	...	...	189·13	...	...	8·77	Kyaukpyu.
56	74	76	47	46	28	17	4	17	3·0	2·4	+0·6	87	— 2	·810	+·003	4·5	— 0·5	132	123·6	+ 8·2	248·50	191·44	+57·06	13·46	Akyab.
32	10	14	2	2	33	5	1	2	¶ 2·6	¶ 4·0	¶ —1·4	67	0	·610	+·001	3·5	+ 1·6	11	8·8	+ 2·2	6·05	5·70	+ 1·25	1·61	Thayetmyo.
14	2	1	1	190	2	2	1	152	3·0	6·3	—3·3	77	+ 1	·712	+·008	4·5	+ 0·6	67	56·3	+10·7	35·56	34·33	+1·23	3·16	Minbu.
31	17	4	5	71	86	6	0	15	1·8	4·2	—2·4	79	0	·705	—·002	3·1	— 0·9	71	62·4	+ 8·6	38·76	38·65	+ 0·11	2·35	Yamethin.
49	11	6	6	81	91	7	1	12	2·9	3·7	—0·8	76	+ 1	·712	+·007	3·6	0	63	50·3	+12·7	43·21	32·97	+10·24	3·31	Mandalay.§
62	63	24	18	93	23	4	4	74	2·2	...	...	79	0	·711	—·003	6·0	+ 1·3	50	44·1	+ 5·9	27·86	32·18	— 4·32	4·56	Monywa.
06	14	43	7	4	7	60	7	12	2·2	...	...	87	+ 1	·561	—·002	6·1	— 0·2	104	99·8	+ 4·2	60·62	62·25	— 1·63	2·52	Lashio.
68	21	43	2	2	1	10	3	7	1·1	1·8	—0·7	91	+ 2	·696	+·019	6·6	+ 1·5	99	99·6	— 0·6	58·04	71·69	—13·65	2·47	Bhamo.
42	4	7	3	4	3	0	0	2	1·0	...	...	88	+ 2	·661	—·013	6·3	+ 0·4	111	105·0	+ 6·0	98·85	76·14	+22·71	4·90	Myitkyina.
																									II.—Assam.
67	11	29	41	1	2	6	7	1	0·5	...	...	92	+ 1	·686	+·023	6·1	+ 0·2	132	134·8	— 2·8	127·31	106·50	+20·81	4·70	Dibrugarh.
80	43	61	14	10	24	17	3	13	1·8	1·8	0	91*	— 3	·718*	+·013	7·7	+ 0·4	132	129·1	+ 2·9	103·53	96·27	+ 7·26	5·55	Sibsagar.
37	2	65	115	23	4	6	9	2	1·8	...	...	91	+ 2	·720	+·041	5·8	+ 0·7	111	106·5	+ 4·5	67·52	69·46	— 1·94	2·96	Tezpur.‡‡
41	4	8	1	5	0	5	0	1	1·3	...	...	87	— 2	·734	+·041	5·9	— 0·7	96	92·8	+ 5·2	78·28	62·88	+15·35	4·90	Gauhati.
54	4	110	118	25	19	20	13	2	4·2	3·8	+0·4	85	— 2	·731	+·030	5·3	+ 0·8	99	93·9	+ 5·1	96·16	94·62	+ 1·54	5·41	Dhubri.
57	5	44	42	9	0	3	2	3	1·1	1·7	—0·6	87	— 1	·740	+·015	3·2	— 2·4	131	136·6	— 5·6	170·10	124·56	+45·54	9·24	Silchar.
...	...	...	...	...	...	...	...	...	...	...	...	91	+ 4	·715	—·014	2·3	...	127	123·7	+ 3·3	125·30	95·88	+29·42	6·40	Srimangal.
																									III.—Bengal.
39	13	95	46	92	31	6	1	2	2·8	...	...	89	...	·788	...	4·9	...	118	...	...	140·00	...	...	5·68	Cox's Bazar.
61	3	68	91	31	6	6	1	1	1·9	3·6	—1·7	88	+ 2	·782	+·026	4·8	+ 0·1	101	93·6	+ 7·4	138·90	98·23	+40·57	8·19	Chittagong.
08	41	38	25	90	41	16	7	9	2·4	...	...	85	— 2	·770	—·004	4·4	+ 0·8	116	112·5	+ 3·5	137·50	120·30	+17·20	9·84	Noakhali.
41	31	30	16	19	75	33	6	8	1·5	2·3	—0·8	83	— 2	·793	—·008	5·4	+ 1·0	112	101·3	+10·7	79·25	79·72	— 0·47	3·91	Barisal.
23	16	15	36	47	54	33	12	29	2·0	3·6	—1·6	82	— 4	·762	—·014	5·1	— 0·2	104	91·0	+13·0	95·47	70·45	+25·02	3·69	Narayanganj.
40	1	4	47	45	10	3	8	12	1·5	2·0	—0·5	88	+ 1	·756	+·018	5·7	+ 0·7	117	106·4	+10·6	110·47	93·04	+17·43	4·36	Mymensingh.
23	22	32	60	15	33	19	15	7	1·5	2·2	—0·7	86	+ 3	·751	+·035	5·4	+ 1·8	97	84·2	+12·8	78·38	67·90	+10·48	4·74	Bogra.
66	14	42	98	40	25	26	37	12	2·6	2·6	0	84	+ 1	·725	+·033	3·9	— 0·5	89	79·1	+ 9·9	72·25	68·92	+ 3·33	5·10	Dinajpur.
65	0	0	0	0	0	0	0	0	1·0	...	...	89	+ 3	·717	+·032	3·0	— 0·3	110	102·2	+ 7·8	105·13	122·42	—17·29	5·44	Jalpaiguri.
4	78	61	22	16	77	74	17	16	8·1	5·9	+2·2	86	+ 1	·845	+·014	5·3	— 0·1	78	80·3	— 2·3	66·95	70·21	— 3·26	5·95	Saugor Island.

§ Wind observations for 364 days.
** " " " 280 "
¶ Mean of 4 months.
‡ " " 9 "
† " " 10 "

* Mean of 11 months.
†† Wind observations for 351 days.
‡‡ Wind observations for 363 days.

TABL

(2) *Abstract of observations taken at 8 hrs. at 22*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	III.—Bengal— *concld.*																				
	Midnapore	149	29·697	+·001	29·797	30·050	29·225	·825	·264	77·4	89·7	−0·1	71·7	+1·2	80·7	+0·5	18·0	109·8	40·1	60·7	31·5
	Calcutta	21	29·835	+·005	29·803	30·233	29·338	·895	·281	75·8	87·9	+1·1	72·0	+1·5	80·0	+1·3	15·9	103·4	49·3	54·1	27·6
	Jessore	30	29·837	+·014	29·814	30·241	29·362	·879	·269	76·5	87·2	−0·2	70·3	+0·5	78·8	+0·1	17·0	102·6	45·7	56·9	30·3
	Burdwan	99	29·754	+·004	29·803	30·159	29·270	·889	·283	75·1	88·7	−0·2	70·4	−0·1	79·5	−0·2	18·3	106·2	48·2	58·0	31·6
	Berhampore	67	29·791	+·009	29·809	30·183	29·307	·876	·282	74·6	87·5	−0·2	70·7	+1·1	79·1	+0·5	16·8	105·6	49·2	56·4	28·8
	IV.—Bihar and Orissa.																				
6	Balasore	50	29·807	+·007	29·802	30·198	29·335	·863	·270	76·2	89·2	+0·6	71·5	+0·9	80·3	+0·7	17·7	108·8	49·9	58·9	31·3
	Hukitala (False Point).	29	29·831	+·003	29·801	30·227	29·350	·877	·260	...	...	...	...	...	...	...	...	...	...	...	...
	Cuttack	80	29·786	+·014	29·808	30·185	29·389	·896	·264	77·5	90·7	−0·6	73·2	+0·7	81·9	+0·1	17·4	107·7	53·2	54·5	29·0
	Puri	24	29·840	+·007	29·805	30·243	29·381	·862	·265	78·4	86·8	+0·6	75·9	+1·4	81·4	+1·0	10·9	96·8	57·5	39·3	21·9
	Angul	455	29·396	+·007	29·802	29·789	28·912	·877	·254	76·8	90·5	+0·5	70·9	+1·6	80·7	+1·0	19·6	112·3	49·0	63·3	33·1
	Sambalpur	486	29·369	+·002	29·810	29·748	28·899	·849	·268	76·6	90·8	0	70·7	+0·8	80·7	+0·4	20·1	115·2	45·7	69·5	34·5
7	Chaibasa	*733*	29·094	−·004	29·791	29·469	28·646	·823	·271	73·7	90·7	+1·1	69·6	+1·9	80·1	+1·5	21·1	115·0	44·7	70·3	35·5
	Ranchi	2,128	27·725	+·017	29·792	28·019	27·319	·700	·247	71·9	84·3	−0·1	66·7	+1·2	75·5	+0·5	17·5	109·1	43·8	65·3	31·0
	Purulia	*816*	28·963†	−·004*	29·732†	29·374	28·593	·781	·276†	75·1	91·0	+1·6	69·8	+1·4	80·4	+1·5	21·2	115·2	44·2	71·0	36·9
	Daltonganj	*730*	29·106	0	29·802	29·461	28·662	·799	·279	72·3	90·8	+1·4	67·2	+1·9	79·0	+1·7	23·6	114·6	36·5	78·1	38·6
8	Purnea	124	29·731	+·004	29·812	30·128	29·269	·859	·282	73·1	87·1	+0·5	67·9	+1·6	77·5	+1·1	19·2	104·5	42·6	61·9	31·3
	Monghyr	155	29·692	...	29·802	30·105	29·225	·880	·282	75·1	87·0	...	69·4	...	78·2	...	17·7	106·2	46·9	59·3	30·1
	Darbhanga	165	29·682	+·006	29·805	30·082	29·227	·855	·286	74·2	86·0‡	+0·2‡	68·1	0	77·4‡	+0·2‡	17·2‡	100·9	44·2	56·7	30·1‡
	Pusa	188	29·655	...	29·802	30·038	29·207	·831	·277	73·5	87·7	...	66·3	...	77·0	...	21·4	104·1	41·4	62·7	34·2
	Patna	183	29·658	+·004	29·799	30·062	29·199	·863	·279	75·7	86·4	−1·2	70·1	+1·5	78·2	+0·1	16·3	108·4	44·2	64·2	29·9
	Buxar	239	29·594	+·003	29·793	30·005	29·143	·862	·202	74·1	88·9	+0·3	69·5	+1·3	79·2	+0·8	19·5	111·3	41·3	70·0	33·8
	Gaya	372	29·474	+·013	29·801	29·859	29·002	·857	·281	76·9	89·9	0	70·5	+1·7	80·2	+0·9	19·4	112·9	43·6	69·3	33·1
	Naya Dumka	489	29·349	+·002	29·798	29·735	28·890	·845	·275	75·3	88·6	+1·0	68·7	+0·7	78·6	+0·9	20·0	106·9	44·0	62·9	32·8
	V.—United Provinces of Agra and Oudh.																				
9	Gorakhpur	257	29·575	+·006	29·795	29·974	29·133	·841	·282	73·5	87·5	−0·3	67·9	+0·9	77·7	+0·3	19·6	106·3	41·6	64·7	32·5
	Benares	267	29·576	+·013	29·802	29·984	29·127	·857	·297	75·5	89·1	−0·5	68·0	+1·4	78·5	+0·4	21·1	113·2	39·7	73·5	35·2
	Allahabad	309	29·522	0	29·792	29·937	29·088	·849	·297	75·0	89·4	−0·8	68·0	+1·2	78·7	+0·2	21·4	115·0	40·2	74·8	35·2
	Cawnpore	416	29·422	+·015	29·803	29·821	29·001	·820	·287	73·2	88·9	−0·2	68·0	+1·3	78·5	+0·5	20·9	114·6	41·9	72·7	34·7
	Lucknow	368	29·466	+·010	29·798	29·870	29·025	·845	·290	75·3	89·6	−0·2	68·0	+2·5	78·8	+1·1	21·5	113·6	40·6	73·0	36·3
	Bahraich	407	29·415	+·003	29·791	29·819	28·970	·849	·297	72·5	87·4	−0·9	66·9	+1·2	77·2	+0·1	20·6	109·3	40·7	68·6	34·3
10	Jhansi	824	29·021	−·003	29·811	29·387	28·600	·787	·283	76·3	92·0	+0·8	68·5	−1·0?	80·2	−0·1?	23·5	117·4	41·6	75·8	39·4
	Agra	556	29·280	+·006	29·801	29·680	28·835	·845	·295	77·5	91·4	+1·0	69·2	+1·4	80·3	+1·2	22·2	114·9	42·7	72·2	36·5
	Mainpuri	516	29·307	+·001	29·791	29·697	28·864	·833	·296	73·5	90·7	+0·7	66·9	+1·4	78·8	+1·0	23·8	117·0	40·2	76·8	38·7
	Bareilly	568	29·254	+·010	29·795	29·639	28·811	·828	·303	72·2	87·3	−0·3	65·7	+1·0	76·5	+0·3	21·6	112·1	41·0	71·1	36·1
	Roorkee	899	28·926	+·016	29·811	29·313	28·481	·832	·306	70·2	85·2	−1·5	62·8	+0·5	74·0	−0·5	22·5	110·3	33·1	77·2	37·3

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

* Mean of 8 months.
† " " 9 "
‡ " " 11 "

3.—contd.

tations in India, etc., in the year 1915.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity: Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud: Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall: Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									III.—Bengal —*concld.*
2	38	40	15	53	67	28	6	36	2·7	...	...	80	+ 4	·774	+ ·062	3·6	+0·8	82	80·2	+ 1·8	57·51	58·12	— 0·61	5·62	Midnapore.*
0	23	37	30	42	44	79	13	57	3·2	3·2	0	84	+ 1	·782	+ ·012	4·9	+0·5	89	85·1	+ 3·9	65·96	61·81	+ 4·15	3·94	Calcutta.
5	8	14	7	53	39	10	7	2	2·5	2·2	+0·3	80	— 5	·765	—·017	4·2	—0·4	77	88·8	—11·8	61·25	65·79	— 4·54	3·94	Jessore.
1	31	26	18	41	45	32	13	18	1·6	2·3	—0·7	81	+ 3	·739	+ ·023	5·1	+0·5	68	76·8	— 8·8	54·89	58·00	— 3·11	4·89	Burdwan.
7	24	16	50	42	56	38	13	9	2·1	2·4	—0·3	83	0	·742	+ ·008	5·2	+0·5	80	76·0	+ 4·0	59·34	55·27	+ 4·07	6·13	Berhampore.
																									IV.—Bihar and Orissa.
8	30	19	11	4	44	97	8	34	2·2§	3·5	—1·3	82	+ 1	·772	+ ·022	4·4	+1·1	83	77·4	+ 5·6	62·26	61·72	+ 0·54	3·04	Balasore.
8	59	19	9	11	48	107	26	55	9·1	...	...	...	...	...	...	5·1	—0·3	77	72·0	+ 5·0	63·00	62·98	+ 0·02	8·21	Hukitala (False Point.) †
6	0	20	22	11	20	67	45	4	1·9	2·1	—0·2	80	+ 1	·773	+ ·024	4·7	+0·4	75	74·1	+ 0·9	70·21	59·30	+10·91	7·97	Cuttack.
6	65	18	6	7	65	89	22	57	10·3	...	...	85	+ 2	·845	+ ·022	5·2	+1·3	68	60·3	+ 7·7	59·26	53·57	+ 5·69	9·56	Puri.
3	12	40	18	37	7	14	30	124	3·9	...	...	75	— 2	·715	+ ·025	4·8	+1·4	80	72·0	+ 8·0	50·50	47·93	+ 2·57	3·90	Angul.
2	75	123	19	4	7	75	34	26	3·2	2·6	+0·6	73	+ 3	·673	+ ·022	4·8	+0·9	62	74·9	—12·9	36·80	66·54	—29·74	3·54	Sambalpur.
8	1	18	17	4	18	110	14	2	2·5	1·3	+1·2	76	— 1	·657	+ ·016	4·7	+1·3	60	74·9	—14·9	31·39	52·62	—21·23	2·63	Chaibasa. †
6	17	20	28	23	39	59	60	73	3·8	4·6	—0·8	68	+ 2	·549	+ ·018	4·4	+0·6	75	80·4	— 5·4	47·63	56·67	— 9·04	5·16	Ranchi.
3	12	33	18	23	18	29	49	90	2·2	...	...	71	— 2	·646	+ ·016	3·7	+0·5	59	76·1	—17·1	48·54	52·15	— 3·61	4·62	Purulia.
7	13	20	52	45	15	29	15	9	3·1	...	...	74	+ 2	·598	+ ·010	2·9	+0·2	57	62·5	— 5·5	37·00	42·07	— 5·07	3·25	Daltonganj.
7	25	55	109	26	16	52	42	13	2·6	2·3	+0·3	85	0	·729	+ ·040	4·7	+1·3	72	70·1	+ 1·9	63·98	61·86	+ 2·12	3·35	Purnea.
6	7	21	87	50	12	30	52	20	4·4‖	...	...	74¶	...	·694¶	...	3·3	...	73	...	...	54·80	...	...	4·32	Monghyr.
8	1	24	140	22	4	18	40	8	3·2	2·9	+0·3	81	0	·721	+ ·037	4·2	+1·1	62	59·3	+ 2·7	69·36	50·37	+18·99	6·29	Darbhanga.
6	11	24	139	31	15	27	47	12	2·8	...	...	83	...	·713	...	3·9	...	64	...	...	53·95	...	...	4·50	Pusa. †
2	3	7	136	15	14	17	38	3	3·5	2·7	+0·8	75	+ 3	·706	+ ·050	4·3	+0·8	54	56·1	— 2·1	61·72	47·03	+14·69	10·48	Patna.
3	9	29	83	38	28	79	63	3	3·8	...	...	74	+ 6	·653	+ ·045	4·3	+1·0	51	53·3	— 2·3	38·84	41·22	— 2·38	3·60	Buxar.
9	2	29	33	23	23	38	27	4	2·9¶	2·7	+0·2	63¶	— 4¶	·584¶	—·001¶	2·7	—0·7	48	57·9	— 9·9	37·53	46·57	— 9·04	3·15	Gaya. ‡
1	5	6	22	46	28	9	8	30	2·1	...	...	75	+ 2	·690	+ ·041	3·4	+0·1	76	77·8	— 1·8	54·40	55·73	— 1·33	2·72	Naya Dumka.
																									V.—United Provinces of Agra and Oudh.
9	4	54	146	1	3	16	57	5	3·0	1·7	+1·3	77	+ 2	·676	+ ·032	2·2	—0·8	65	57·3	+ 7·7	55·58	50·77	+ 4·81	5·02	Gorakhpur.
9	13	11	49	60	15	61	34	23	2·3	2·7	—0·4	73	+ 1	·662	+ ·040	3·5	+0·2	64	52·0	+12·0	51·78	39·87	+11·91	4·80	Benares.
9	7	35	64	8	9	21	79	13	2·5	3·8	—1·3	68	+ 2	·609	+ ·027	4·3	+0·8	61	48·8	+12·2	49·20	39·16	+10·04	3·81	Allahabad.
3	15	24	37	41	24	30	47	31	2·0	2·7	—0·7	72	+ 1	·615	+ ·046	1·7	—0·8	53	44·4	+ 8·6	60·80	36·06	+24·74	9·26	Cawnpore.
1	3	13	72	17	7	18	28	6	1·6	2·2	—0·6	68	— 1	·626	+ ·047	3·2	0	58	47·7	+10·3	73·49	38·05	+35·44	9·95	Lucknow.
4	20	6	71	20	3	19	23	19	0·9	2·3	—1·4	74	— 1	·625	—·010?	1·9	—0·5	67	50·6	+16·4	68·87	44·62	+24·05	5·83	Bahraich.
9	15	28	41	16	8	89	88	20	3·9	2·4	+1·5	57	— 1	·526	— ·018	3·2	+1·1	40	47·7	— 7·7	25·81	37·57	—11·76	1·73	Jhansi.
7	12	17	35	33	21	67	36	16	3·1	3·3	—0·2	59	— 1	·575	+ ·050	2·9	+0·2	36	37·9	— 1·9	24·40	27·32	— 2·92	2·71	Agra.*
5	22	18	55	53	17	23	79	33	1·7	1·4	+0·3	69	+ 4	·596	+ ·051	2·3	—0·9	39	38·1	+ 0·9	26·33	27·42	— 1·09	4·15	Mainpuri.
7	3	4	50	34	2	16	29	10	1·1	2·0	—0·9	77	+ 5	·651	+ ·076	3·9	+1·0	44	47·8	— 3·8	60·66	44·96	+15·70	4·00	Bareilly.
0	0	7	8	85	0	0	1	34	1·6	1·8	—0·2	74	+ 3	·570	+ ·055	2·5	—0·3	50	47·6	+ 2·4	40·84	42·30	— 1·46	2·72	Roorkee.

* Wind observations for 364 days.
† " " " 362 "
‡ " " " 348 "
§ Velocity values are too low.
‖ Mean of 11 months.
¶ " " 10 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 22*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	VI.—Punjab.																				
11	Delhi	718	29·105	+·005	29·801	29·494	28·656	·838	·310	72·9	89·2	+0·7	68·3	+0·8	78·8	+0·7	21·0	113·0	40·1	72·9	35·1
	Hissar	725	29·093	+·006	29·796	29·498	28·612	·886	·313	72·9	92·9	+1·5	65·4	+1·3	79·2	+1·4	27·5	115·8	35·4	80·4	43·9
	Patiala	*818*	28·985	—·010	29·791	29·384	28·523	·861	·323	70·5	88·3	+1·1	65·2	+1·6	76·7	+1·4	23·1	112·2	35·4	76·8	38·4
	Ambala	892	28·920	+·007	29·802	29·339	28·456	·883	·319	69·7	88·9	+1·3	63·5	+0·8	76·2	+1·0	25·5	113·7	33·1	80·6	41·4
	Ludhiana	812	29·006	+·013	29·809	29·437	28·508	·932	·337	70·3	89·3	+1·4	65·7	+1·9	77·5	+1·7	23·5	116·3	36·8	79·5	39·1
	Lahore	702	29·102	+·001	29·792	29·546	28·574	·972	·344	70·6	90·9	+0·8	64·2	+2·6	77·6	+1·7	26·7	116·8	33·8	83·0	42·5
	Sialkot	830	28·972	—·003	29·795	29·441	28·442	·999	·351	69·6	88·5	+0·9	62·0	—0·8?	75·2	+0·1?	26·5	115·2	33·5	81·7	42·0
	Rawalpindi	1,674	28·145	—·003	29·819	28·575	27·637	·938	·345	67·1	86·9	+2·8	58·4	+0·7	72·7	+1·8	28·5	115·3	31·3	84·0	43·9
12	Khushab	612	29·199	—·003	29·795	29·686	28·638	1·048	·380	73·3	89·5†	+1·3†	66·6†	+0·7†	77·9*	+0·9*	26·1*	122·6	34·5	88·1	43·8
	Lyallpur	605	29·191		29·779	29·657	28·651	1·006	·362	71·5	91·5		62·8		77·1		28·7	116·8	29·6	87·2	45·5
	Montgomery	558	29·240	—·009	29·778	29·694	28·718	·976	·352	73·4	92·7	+1·1	66·2	+2·0	79·5	+1·5	26·5	118·7	33·5	85·2	44·0
	Multan	426	29·375	—·010	29·774	29·875	28·815	1·060	·368	74·2	94·6	+2·7	68·2	+2·5	81·4	+2·6	26·4	117·6	38·6	79·0	40·7
	VII.—North-West Frontier Province.																				
14	Peshawar	1,113	28·708	—·020	29·826	29·179	28·169	1·010	·365	66·8	86·7	+3·5	59·5	+0·1	74·1	+1·8	29·2	119·2	28·4	90·8	45·9
	Dera Ismail Khan	590	29·209	—·030	29·785	29·715	28·628	1·087	·384	70·5	90·9	+0·9	64·5	+2·1	77·7	+1·5	26·4	114·7	31·8	82·9	42·1
	VIII.—Sind.																				
16	Jacobabad	186	29·633	+·003	29·781	30·181	29·055	1·126	·360	75·0	98·0	+2·4	67·3	+1·9	82·6	+2·1	30·7	125·7	35·2	90·5	47·6
	Hyderabad	96	29·736	—·005	29·786	30·231	29·271	·960	·325	74·4	93·7	+0·3	68·8	+0·6	81·3	+0·5	24·9	115·6	42·2	73·4	40·7
	Karachi	13	29·862	+·009	29·826	30·306	29·405	·901	·299	75·3	84·8	+0·7	71·8	+0·7	78·3	+0·7	13·0	100·9	49·9	51·0	22·[illegible]
	IX.—Rajputana.																				
17	Bikaner	771	29·048	—·001	29·792	29·471	28·591	·880	·319	75·7	94·5	+2·6	68·9	—0·5?	81·7	+1·1?	25·7	116·7	37·9	78·8	40·7
	Jodhpur	780	29·064	—·001	29·812	29·448	28·646	·802	·296	75·3	93·9	+1·3	69·7	+1·9	81·7	+1·5	24·2	113·5	41·3	72·2	39·[illegible]
18	Jaipur	1,431	28·400	—·018	29·797	28·746	28·003	·742	·272	74·8	92·0	+1·1	67·5	+1·8	79·7	+1·4	24·5	11[illegible]·5	39·2	74·3	38·[illegible]
	Ajmer	1,611	28·249	+·001	29·833	28·580	27·865	·715	·266	71·1	90·1	+1·3	67·6	+2·6	78·8	+2·0	22·5	111·1	37·2	73·9	36·[illegible]
	Kotah	832	29·011	—·001	29·804	29·371	28·599	·772	·278	78·9	93·6	+1·2	71·9	+1·8	82·7	+1·5	21·7	116·0	46·0	70·0	35·7
	X.—Bombay.																				
19	Deesa	466	29·412	+·011	29·838	29·758	29·042	·716	·255	76·2	96·1	+2·1	68·4	+1·4	82·3	+1·7	27·8	114·5	40·1	74·4	31·[illegible]
	Bhuj	334	29·540	+·004	29·828	29·923	29·146	·777	·274	76·1	91·1	—0·1?	69·3†	—0·3?	80·7†	—0·1?	22·7†	110·1	41·0	69·1	36·[illegible]
	Jamnagar	61	29·823	—·007	29·831	30·184	29·442	·742	·259	77·8	90·0	+0·5	68·7	+0·5	79·4	+0·5	21·9	105·6	44·6	61·0	24·[illegible]
	Dwarka	37	29·860	0	29·843	30·226	29·463	·763	·256	76·9	84·9	+0·8	73·3	+0·9	79·1	+0·9	11·6	99·2	53·9	45·3	33·[illegible]
	Rajkot	429	29·449	—·004	29·833	29·786	29·102	·684	·238	75·7	93·7	+0·7	66·9	+0·8	80·3	+0·8	26·8	110·6	40·8	69·8	39·[illegible]
	Veraval	18	29·873	—·002	29·833	30·167	29·535	·633	·224	76·2	84·4	—0·5	72·1	+1·1	78·3	+0·3	12·3	99·9	52·3	47·6	34·[illegible]
	Bhavnagar Para	55	29·839	+·002	29·840	30·174	29·490	·684	·239	76·9	84·4	+0·8	70·1	+0·8	82·2	+0·8	24·3	112·8	53·2	59·6	36·[illegible]
	Surat	39	29·858	0	29·840	30·146	29·537	·609	·224	77·0	90·9	—0·7	71·4	+1·7	81·2	+0·6	19·5	110·7	51·5	59·2	32·[illegible]
	Ahmadabad	163	29·731	+·009	29·845	30·087	29·377	·710	·242	78·1	96·2	+1·7	71·5	+0·8	83·9	+1·3	24·7	114·7	48·8	65·9	37·[illegible]
25	Bombay	37	29·871	—·002	29·848	30·099	29·548	·551	·204	78·5	86·6	+0·7	75·9	+1·0	81·3	+0·8	10·7	94·3	62·3	31·9	18·[illegible]
	Ratnagiri	207	29·693	—·009	29·843	29·915	29·365	·550	·185	79·6	87·1	—0·2	74·6	+1·6	80·9	+0·7	12·5	95·5	60·5	35·0	23·[illegible]

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

* Mean of 10 months.

† " " 11 "

3.—contd.

tations in India, etc., in the year 1915.

Wind direction. Number of winds from Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									VI.—Punjab.
59	10	6	17	82	13	21	109	45	3·4	2·5	+0·9	61	+2	·527	+·032	2·1	−1·1	29	37·1	−8·1	24·87	27·52	− 2·65	3·77	Delhi.
51	15	5	45	45	40	70	68	17	4·6	3·5	+1·1	59	−1	·506	+·013	2·5	−0·1	22	23·2	−1·2	10·55	13·88	− 3·33	1·45	Hissar.
61	27	9	68	78	12	15	56	38	4·0			67	0	·531	−·011	2·2	−0·5	27	36·5	−9·5	21·90	25·46	−3·56	5·10	Patiala. (b)
97	50	5	113	46	5	2	18	29	3·4	1·5	+1·9	70	−2	·530	−·007	2·7	−0·1	37	42·3	−5·3	28·38	30·19	− 1·81	5·50	Ambala.
252	16	14	3	40	16	4	13	7	1·4	1·4	0	66	+1	·509	+·005	1·4	−1·6	29	36·7	−7·7	19·21	29·05	− 9·84	2·82	Ludhiana.
194	11	8	30	58	10	14	17	28	1·6	1·8	−0·2	67	0	·521	+·009	2·1	−0·5	27	27·7	−0·7	10·91	19·69	− 8·78	1·12	Lahore.
112	43	56	86	35	2	6	7	18	2·0	1·5	+0·5	72	+6	·537	+·030	2·2	−0·1	36	40·4	−4·4	17·25	31·66	−14·41	1·49	Sialkot.
142	27	43	25	37	18	14	32	26	2·3	1·6	+0·7	64	−1	·447	+·001	2·9	−0·3	42	48·0	−6·0	22·27	34·29	−12·02	2·15	Rawalpindi. (a)
134	8	79	38	17	15	15	6	3	4·1	3·6	+0·5	51	−4	·445	−·010	1·9	−0·2	19	23·2	−4·2	7·61	14·44	− 6·83	0·97	Khushab.
83	7	41	28	77	14	86	4	25	2·5			62		·492		2·3		11	19·5	−8·5	5·43	12·66	− 7·23	1·50	Lyallpur.
65	19	27	39	63	62	58	13	19	4·5	4·3	+0·2	54	+2	·457	+·006	1·6	−0·5	10	18·2	−8·2	8·31	10·46	− 2·15	2·62	Montgomery.
185	25	21	3	30	69	22	1	9	1·2	1·5	−0·3	61	+2	·568	+·059	1·0	−0·6	5	12·2	−7·2	1·38	6·73	− 5·35	0·89	Multan.
																									VII.—North-West Frontier Province.
260	47	5	1	0	35	3	1	13	1·1	2·4	−1·3	67	+4	·469	+·016	2·2	−0·8	22	25·1	−3·1	13·98	13·29	+ 0·69	2·17	Peshawar.
197	25	67	10	28	3	6	3	26	1·9	1·3	+0·6	64	−1	·526	+·004	1·3	−0·7	12	16·5	−4·5	5·06	9·37	− 4·31	1·14	Dera Ismail Khan.
																									VIII.—Sind.
204	6	5	31	75	34	1	1	8	1·8	2·5	−0·7	65	+7	·629	+·096	1·3	−0·5	3	7·6	−4·6	1·34	3·65	− 2·31	0·63	Jacobabad.
9	103	6	2	7	94	121	12	11	7·2	8·1	−0·9	61	+3	·562	+·027	1·3	−1·0	3	9·6	−6·6	1·01	7·11	− 6·10	0·40	Hyderabad.
25	41	73	13	0	2	71	123	17	9·6	9·2	+0·4	71	−2	·669	−·008	3·6	+0·1	5	9·2	−4·2	2·26	7·78	− 5·52	0·71	Karachi.
																									IX.—Rajputana.
67	5	12	29	29	49	83	63	9	4·9	4·3	+0·6	46	−7	·449	−·051	1·5	−0·9	12	19·4	−7·4	6·58	11·49	− 4·91	1·35	Bikaner.
41	16	107	10	3	15	141	30	2	4·6			44	−5	·429	−·022	2·6	−0·5	12	18·5	−6·5	5·30	13·34	− 8·04	1·25	Jodhpur.
86	27	45	39	12	7	24	76	49	3·9	3·2	+0·7	53	−2	·484	+·004	2·8	−0·3	35	35·5	−0·5	14·32	24·07	− 9·75	1·97	Jaipur.
171	5	10	0	8	5	59	78	29	3·9	3·6	+0·3	57	−6	·460	−·046	2·3	−0·5	20	30·1	−10·1	14·35	21·09	− 6·74	4·37	Ajmer.
133	16	16	11	22	2	38	83	44	3·2			50	0	·498	+·027	2·7	+0·5	35	35·0	0	23·06	28·12	− 5·06	2·89	Kotah.
																									X.—Bombay.
16	11	81	56	16	30	92	37	32	8·0	7·5	+0·5	58	+ 2	·565	+·042	3·1	−0·1	17	28·3	−11·3	7·87	24·10	−16·23	1·50	Deesa.
91	35	16	5	0	5	38	160	15	6·9	8·1	−1·2	61	− 6	·593	−·038	2·6	−0·4	10	16·9	−6·9	5·94	14·15	−8·21	1·25	Bhuj.
21	13	47	44	11	24	120	66	19	10·4			76	+ 9?	·756	+·114?	3·0	+0·9	12	20·8	−8·8	10·62	19·28	−8·66	3·22	Jamnagar.
11	59	58	16	4	9	90	83	35	10·3			75	− 2	·721	−·028	3·6	+0·3	14	16·9	−2·9	10·51	14·38	−3·87	3·54	Dwarka.
33	34	35	25	13	18	122	60	31	7·9	6·6	+1·3	62	− 4	·590	−·019	4·3	+1·4	21	30·9	−9·9	11·59	26·54	−14·95	2·15	Rajkot.
39	56	35	5	8	11	56	89	66	8·1	8·1	+2·0	71	0	·680	+·011	3·6	+0·1	28	24·2	+3·8	11·82	17·95	−6·13	2·14	Veraval.
41	26	7	7	6	8	90	74	86	3·8	7·3	−3·5	69	+ 6?	·686	+·083?	3·8	+0·6	17	29·8	−12·8	11·16	20·66	−9·50	3·55	Bhavnagar Para.
97	33	38	41	97	47	56	24	22	3·9	5·5	−1·6	73	+ 3	·699	+·027	4·4	+1·1	36	46·1	−10·1	27·57	41·12	−13·55	4·20	Surat.
24	7	79	21	84	7	91	26	76	5·0	3·6	+1·4	57	− 1	·582	+·011	3·1	−0·4	20	34·1	−14·1	12·08	29·62	−17·54	2·75	Ahmadabad.
1	89	77	70	43	13	36	62	24	6·6	8·6	−2·0	79	+ 1	·777	+·009	4·5	+0·2	64	73·3	−9·3	77·61	71·88	+5·73	9·80	Bombay.
12	70	45	48	59	21	38	35	37	7·0	6·2	+0·8	70	− 3	·712	−·010	4·5	+0·6	80	92·7	−12·7	101·61	101·22	+ 0·39	9·20	Ratnagiri.

(a) Wind observations for 364 days.
(b) " " " 362 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 220*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	X.—Bombay— *concld.*										✓		✓		✓						
	Marmagao . .	60	29·853	—·009	29·848	30·068	29·529	·539	·182	79·0	86·1	+0·1	75·3	+0·3	80·7	+0·2	10·8	95·5	64·6	30·9	18·1
	Karwar . .	44	29·899	+·009	29·867	30·101	29·560	·541	·170	75·0*	85·9*	+0·1*	72·1*	+0·5*	79·0*	+0·3*	13·7*	92·5	58·0	34·5	21·9*
26	Malegaon . .	1,430	28·465	+·008	29·850	28·737	28·163	·574	·209	75·1	93·4	+1·5	66·5	+1·3	79·9	+1·4	26·9	114·2	42·1	72·1	40·4
	Ahmadnagar .	2,154	27·762	+·002	29·841	27·998	27·476	·522	·198	73·8	89·1	—0·3	64·5	+0·7	76·8	+0·2	24·7	109·2	44·3	64·9	37·1
	Poona . .	1,846	28·067	+·005	29·863?	28·298	27·754	·544	·196	72·1	89·0	—0·5	65·3	+0·7	77·2	+0·1	23·7	107·2	44·5	62·7	37·0
	Sholapur . .	1,590	28·305	—·004	29·834	28·562	28·015	·547	·203	75·8	92·1	—0·8	69·5	+1·3	80·8	+0·3?	22·7	110·0	51·1	58·9	35·4
	Bijapur . .	*1,948*	27·953	—·005	29·830	28·193	27·666	·527	·194	74·6	89·8	—0·9	68·2	+0·6	79·0	—0·1	21·5	106·1	48·3	57·8	33·3
	Belgaum . .	2,562	27·382	+·005	29·859	27·585	27·087	·498	·171	71·1	84·4	—0·1	64·3	+0·3	74·3	+0·1	20·1	99·5	48·3	51·2	30·9
	XI.—Central India.																				
20	Neemuch . .	1,626	28·244	—·002	29·826	28·557	27·889	·668	·248	73·9	90·5	+1·6	66·0†	+2·1†	77·9†	+2·0†	23·7†	111·7	38·8	72·9	36·9†
	Indore . .	1,823	28·054	—·001	29·828	28·330	27·717	·613	·226	73·7	89·9	+1·7	65·7	+2·0	77·8	+1·9	24·1	112·2	41·3	70·9	37·0
21	Nowgong . .	754	29·081	—·001	29·804	29·446	28·676	·770	·277	73·1	89·3	—0·1	67·0	+1·3	78·1	+0·6	22·3	114·4	38·3	76·1	37·4
	Sutna . .	1,041	28·785	0	29·795	29·152	28·366	·786	·283	73·6	87·3	—0·9	67·2	+1·3	77·3	+0·2	20·1	113·8	40·5	73·3	35·4
	XII.—Central Provinces.																				
22	Buldana . .	2,134	27·735‡		29·786‡	28·020	27·479	·541	·215‡	74·8	87·7	+0·1	68·3	+0·3	78·0	+0·2	19·4	109·0	50·6	58·4	30·8
	Akola . . .	925	28·951	+·002	29·832	29·293	28·604	·689	·233	76·3	93·4	+0·3	69·1	+2·0?	81·3	+1·2?	24·3	115·5	44·4	71·1	38·3
	Amraoti . .	1,215	28·654	+·001	29·822	28·974	28·285	·689	·238	77·0	92·1	0	70·7	+1·7	81·4	+0·8	21·3	115·1	50·8	64·3	34·3
23	Khandwa . .	1,044	28·832	+·006	29·839	29·133	28·478	·655	·229	74·4	92·6	+0·6	68·5	+1·6	80·6	+1·1	24·1	115·0	41·9	73·1	38·9
	Hoshangabad .	1,006	28·864	+·005	29·833	29·204	28·495	·709	·250	74·3	90·7	+0·3	68·0	+1·2	79·4	+0·7	22·6	113·7	42·6	71·1	36·4
	Saugor . . .	1,807	28·045	—·009	29·800	28·381	27·655	·726	·261	74·1	88·6	+0·6	67·6	+1·1	78·1	+0·9	21·0	112·0	46·2	65·8	34·5
	Jubbulpore . .	1,327	28·514	—·002	29·803	28·841	28·087	·754	·269	73·2	88·6	+0·2	67·1	+2·7	77·9	+1·5	21·5	112·1	39·3	72·8	36·2
	Seoni . . .	2,033	27·841	+·011	29·814	28·148	27·469	·679	·259	74·1	86·7	—1·2	65·7	+1·0	76·2	—0·1	21·1	110·8	44·0	66·8	34·4
	Nagpur . .	1,017	28·844	+·005	29·816	29·167	28·453	·714	·253	76·5	91·8	—0·3	69·9	+1·1	80·9	+0·4	21·9	114·7	46·5	68·2	35·2
24	Pendra . . .	2,040	27·814	+·005	29·795	28·145	27·387	·758	·268	73·6	86·3	+0·7	66·8	+1·8	76·5	+1·3	19·5	110·3	43·1	67·2	33·9
	Raipur . . .	970	28·872	—·006	29·798	29·225	28·484	·741	·264	75·4	90·5	+0·2	70·7	+1·7	80·6	+1·0	19·8	114·9	48·1	66·8	33·7
	Chanda . . .	*634*	29·228	—·011	29·813	29·568	28·822	·746	·254	77·5	92·8	—0·2	70·4	+1·8	81·6	+0·8	22·3	116·5	45·0	71·5	36·5
	Jagdalpur . .	1,813	28·059		29·809	28·337	27·675	·662	·247	74·4	87·9		67·5		77·7		20·4	108·2	42·5	65·7	33·8
	XIII.—Hyderabad.																				
27	Aurangabad . .	1,905	28·002	—·003	29·842	28·269	27·713	·556	·206	75·0	89·7	—1·1	67·1	+1·4	78·4	+0·2	22·7	109·3	47·3	62·0	34·8
	Nizamabad . .	1,248	28·634	—·004‡	29·828	28·942	28·316	·626	·226	77·0	91·8	+0·2	70·1	+1·7	81·0	+1·0	21·7	114·0	47·9	66·1	35·0
	Bidar . . .	*2,165*								76·8	88·7	+0·2	69·0	+1·1	78·8	+0·6	19·7	107·6	53·4	54·2	31·3
28	Gulbarga . .	1,503	28·386	—·009	29·830	28·648	28·108	·540	·207	75·9	93·0	+0·4	69·6	+0·6	81·3	+0·5	23·4	111·2	48·4	62·8	35·7
	Raichur . .	*1,311*	28·592	+·017	29·843	28·828	28·312	·516	·206	78·1	93·0	+0·8	72·3	+0·6	82·7	+0·7	20·7	109·8	55·2	54·6	33·0
	Hyderabad (Deccan)	1,738	28·150	—·002	29·822	28·413	27·849	·564	·210	75·3	89·3	—1·2	70·5	+1·0	79·9	—0·1	18·9	109·8	50·5	59·3	32·1
	Hanamkonda .	877	29·004	+·007	29·828	29·296	28·641	·655	·221	78·3	91·1	—0·7	73·0	+1·2	83·1	+0·3	18·1	112·8	55·7	57·1	30·8

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

* Mean of 10 months.
† „ „ 11 „
‡ „ „ 9 „

B.—contd.

stations in India, etc., in the year 1915.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									X.—Bombay— *concld.*
56	30	37	74	14	18	13	54	69	6·0	6·7	—0·7	84	+ 1	·880	+·017	5·6	+1·3	91	94·3	— 3·3	87·08	93·85	— 6·77	7·02	Marmagao.
241	36	40	0	0	14	23	0	11	1·9	3·0	—1·1	86*	+ 3*	·758*	+·033*	4·2	+0·4	93	103·7	—10·7	101·08	122·45	- 21·37	10·78	Karwar.
109	7	8	6	7	11	141	53	23	5·5	6·5	—1·0	60	+ 2	·536	+·020	3·6	+0·6	44	35·0	+ 9·0	24·98	22·71	+ 2·27	4·18	Malegaon.
51	27	15	6	32	24	37	60	113	5·3	8·3	—3·0	60	— 2?	·506	—·019?	2·5	—0·5	44	35·8	+ 8·2	39·14	22·29	+16·85	4·72	Ahmadnagar.
17	3	5	4	20	0	115	92	109	6·7	7·6	—0·9	72	+ 9	·577	+·074	2·5	—1·2	52	46·8	+ 5·2	38·08	27·23	+10·85	3·05	Poona.
20	14	37	34	53	7	27	58	114	8·1	7·1	+1·0	62	+ 7	·551	+·055	4·2	+0·3	45	42·1	+ 2·9	30·95	29·50	+ 1·45	2·95	Sholapur. (*d*)
50	28	25	21	38	17	35	101	50	5·1	4·7	+0·4	63	— 4	·541	—·038	3·3	—0·4	52	36·5	+15·5	28·94	20·93	+ 8·01	5·03	Bijapur.
186	7	10	29	7	0	25	97	3	7·2†	11·0	—3·8	75	+ 5	·573	+·036	5·0	+0·6	71	81·0	—10·0	51·25	49·67	+ 1·58	3·00	Belgaum. (*d*)
																									XI.—Central India.
66	18	15	79	10	9	37	124	5	6·3	6·4	—0·1	56	— 2	·491	—·008	2·9	+0·1	27	35·4	— 8·4	20·11	28·57	— 8·46	2·15	Neemuch. (*b*)
70	20	43	20	24	5	15	90	78	4·8	3·0	+1·8	63	+ 1	·544	+·022	3·7	+0·1	52	44·9	+ 7·1	29·90	32·79	— 2·89	3·10	Indore.
93	24	31	30	18	38	28	95	8	2·2	1·9	+0·3	67	+ 2	·560	+·021	4·0	+0·3	57	48·3	+ 8·7	48·72	43·35	+ 5·37	4·72	Nowgong.
144	8	15	26	12	18	50	75	9	2·6	4·4	—1·8	68	+ 7	·569	+·053	3·7	0	58	54·9	+ 3·1	48·39	44·44	+ 3·95	3·68	Sutna. (*c*)
																									XII.—Central Provinces.
12	6	14	37	49	14	33	109	91	5·5	5·7	—0·2	60		·521		4·1		57	52·3	+ 4·7	41·38	35·05	+ 6·33	5·24	Buldana.
46	5	18	44	28	14	28	101	81	5·4	4·4	+1·0	59	+ 2	·540	+·030	4·6	+1·0	45	46·2	— 1·2	33·84	32·79	+ 1·05	2·88	Akola.
58	10	57	52	14	7	18	107	42	4·7	4·2	+0·5	58	0	·530	+·001	3·4	—0·1	49	47·8	+ 1·2	37·38	33·84	+ 3·54	3·80	Amraoti.
275	1	3	3	1	0	5	53	24	5·4	4·4	+1·0	63	+ 6	·551	+·057	3·9	+0·8	46	41·0	+ 5·0	27·05	29·91	— 2·86	3·02	Khandwa.
43	5	69	50	20	2	89	74	13	2·8	2·3	+0·5	64	0	·555	+·014	3·3	—0·1	60	55·6	+ 4·4	48·11	49·10	— 0·99	4·20	Hoshangabad.
20	9	33	60	36	23	25	135	24	5·8	3·2	+2·6	55	— 1	·473	—·003	3·4	+0·3	49	56·3	— 7·3	46·53	46·25	+ 0·28	3·83	Saugor.
47	25	19	13	70	41	48	69	30	2·4	2·3	+0·1	66	— 1	·547	+·023	3·4	+0·1	61	64·1	— 3·1	74·87	55·51	+19·36	13·50	Jubbulpore. (*e*)
81	63	40	11	17	23	40	49	41	4·1	2·7	+1·4	61	— 1	·512	+·005	3·9	+0·7	75	70·4	+ 4·6	54·58	52·63	+ 1·95	3·03	Seoni.
26	82	31	29	32	8	13	47	97	4·5	4·1	+0·4	61	+ 2	·556	+·021	4·1	+0·3	66	62·9	+ 3·1	50·55	49·16	+ 1·39	3·99	Nagpur.
128	40	14	10	23	53	35	14	48	3·7			63	+ 3	·515	+·035	3·6	+0·2	76	74·4	+ 1·6	57·43	51·50	+ 5·93	3·60	Pendra.
48	31	32	39	16	46	67	54	32	4·1	4·3	—0·2	69	+ 6	·601	+·041	3·0	—0·8	60	63·5	— 3·5	55·70	49·99	+ 5·71	4·52	Raipur.
144	8	8	9	30	15	46	73	32	4·0	2·7	+1·3	68	+ 4	·644	+·058	4·1	+0·5	54	63·7	— 9·7	45·11	53·43	— 8·32	5·42	Chanda.
159	13	15	9	16	24	68	41	19	1·9			74		·635		3·9		80			59·31			4·79	Jagdalpur. (*a*)
																									XIII.—Hyderabad.
22	13	37	70	34	9	44	92	44	8·0			61	+ 7	·539	+·053	4·4	+1·1	50	44·3	+ 5·7	35·42	28·37	+ 7·05	4·39	Aurangabad.
65	56	18	13	25	31	54	53	50	3·7			64	— 2	·579	—·037	4·5	+1·0	62	54·9	+ 7·1	39·15	40·87	— 1·72	3·30	Nizamabad.
53	17	41	25	55	9	89	18	58	5·6			62	— 5	·570	—·028	6·2	+3·5	53	53·7	— 0·7	36·13	37·55	— 1·42	3·50	Bidar.
12	28	49	66	16	24	27	98	45	7·0	7·4	- 0·4	62	— 2	·552	—·028	3·7	+0·1	53	48·4	+ 4·6	25·78	33·14	— 7·36	2·15	Gulbarga.
2	14	42	39	64	10	67	54	73	7·7	7·1	+0·6	69	+ 6	·661	+·064	2·7	—0·8	50	44·7	+ 5·3	26·76	28·62	— 1·86	2·78	Raichur.
78	13	66	8	17	8	33	85	57	5·7	4·0	+1·7	74	+ 6	·658	+·070	4·9	+1·0	57	49·4	+ 7·6	56·33	31·32	+25·01	4·80	Hyderabad (Deccan).
15	32	4	17	83	63	28	60	63	4·7			67	+ 1	·650	+·021	4·7	+0·6	54	50·5	+ 3·5	39·85	34·75	+ 5·10	3·20	Hanamkonda.

* Mean of 10 months.
† „ „ 11 „

b Wind observations for 363 days.
c „ „ 357 „
d „ „ 364 „
a „ „ 364 „
e „ „ 362 „

TABLE

(2) *Abstract of observations taken at 8 hrs. at 220*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	XIV.—Mysore.																				
29	Chitaldrug	2,405	27·533	+·008	29·843	27·714	27·258	·456	·164	73·5	87·5	+0·6	68·0	+0·6	77·8	+0·6	19·5	100·1	54·7	45·4	29·4
	Hassan	3,149	26·834	+·007	29·853	27·006	26·578	·428	·149	70·1	88·8	+0·5	63·9	+1·5	73·8	+1·0	19·8	95·8	46·9	48·9	29·4
	Bangalore	3,021	26·954	0	29·849	27·117	26·711	·406	·152	71·0	85·7	+1·2	65·4	+1·3	75·5	+1·2	20·2	97·6	49·8	47·8	30·7
	Mysore	2,518	27·438	—·002	29·855	27·600	27·191	·409	·143	72·7	86·7	+0·3	66·9	+1·0	76·8	+0·7	19·8	98·3	51·5	46·8	29·5
	XV.—Madras.																				
30	Mangalore	72	29·863	—·007	29·867	30·033	29·606	·427	·149	80·1	87·7	+0·3	75·1	+1·5	81·4	+0·9	12·6	98·5	63·3	35·2	21·2
	Calicut	27	29·902	—·005	29·858	30·072	29·705	·367	·150	78·6	86·5	—0·2	75·7	+1·4	81·1	+0·6	10·9	98·2	64·7	33·5	18·5
	Cochin	9	29·930	—·002	29·867	30·113	29·744	·369	·132	79·9	87·9	+0·1	75·6	+0·8	81·7	+0·4	12·2	93·0	65·7	27·3	19·7
	Trivandrum	198	29·737	+·005	29·865	29·909	29·545	·364	·145	79·0	85·6	+1·6	75·4	+0·2	80·5	+0·9	10·3	91·5	68·0	23·5	15·9
31	Pamban	37	29·873	—·007	29·838	30·067	29·671	·396	·152	82·0	87·0	—0·8	78·7	+1·2	82·8	+0·2	8·3	91·7	70·8	20·9	13·2
	Madura	457	29·464	—·005	29·843	29·669	29·230	·439	·162	81·7	93·7	—0·1	76·0	+2·0	84·8	+1·0	17·7	105·3	67·3	38·9	27·2
	Pudukkottai	318	29·597	—·001	29·847	29·806	29·356	·450	·156	80·8	93·9	+0·5	75·1	+1·0	84·5	+0·8	18·9	107·4	62·4	45·0	28·9
	Negapatam	31	29·879	—·001	29·839	30·070	29·654	·416	·161	81·7	90·5	+0·4	76·7	+0·5	83·6	+0·5	13·8	107·1	65·7	41·4	22·3
	Trichinopoly	255	29·663	0	29·851	29·861	29·425	·436	·165	81·2	94·5	+0·2	75·1	+1·0	84·8	+0·6	19·4	108·0	62·0	46·0	30·0
	Coimbatore	1,341	28·596	+·016	29·874	28·780	28·353	·427	·161	76·2	89·7	—0·3	70·6	+0·9	80·2	+0·3	19·1	101·0	55·5	45·5	28·0
	Salem	913	29·010	+·008	29·859	29·203	28·774	·429	·163	78·4	93·3	+0·2	72·4	+1·4	82·9	+0·8	20·8	104·9	56·6	48·3	30·5
	Cuddalore	87	29·872	—·001	29·839	30·081	29·618	·463	·176	81·0	90·8	+0·2	76·2	+1·7	83·5	+0·9	14·6	106·0	62·2	43·8	24·5
	Vellore	707	29·205	+·002	29·852	29·424	28·930	·494	·182	78·1	92·0	+0·5	72·7	+0·2	82·3	+0·3	19·3	107·1	54·6	52·5	31·5
	Madras	22	29·879	—·006	29·833	30·116	29·606	·510	·192	81·7	91·6	+0·6	76·2	+1·4	83·9	+1·0	15·4	107·5	63·6	43·9	26·7
32	Cuddapah	428	29·469	—·006	29·835	29·712	29·183	·529	·202	81·5	95·7	0	76·2	+1·8	86·0	+0·9	19·5	110·1	59·0	51·1	31·3
	Bellary	1,475	28·425	—·005	29·834	28·646	28·122	·524	·203	78·1	93·4	+0·1	71·6	+0·8	82·5	+0·4	21·7	108·8	54·2	54·1	34·1
	Kurnool	923	28·983	+·014	29·851?	29·255	28·703	·552	·213	77·6	92·9	—1·0	72·8	+2·0	82·9	+0·5	20·1	109·5	51·0	58·5	33·3
33	Nellore	66	29·818	—·010	29·819	30·086	29·525	·561	·217	81·0	93·1	—0·9	76·3	+1·2	84·7	+0·1	16·8	110·6	62·4	48·2	28·9
	Masulipatam	15	29·875	—·006	29·824	30·175	29·556	·619	·243	80·4	90·3	—0·2	74·9	+0·4	82·6	+0·1	15·4	113·3	60·9	52·4	27·4
	Cocanada	26	29·860	+·001	29·823	30·172	29·483	·689	·252	79·5	89·4	—0·1	75·3	+0·3	82·3	+0·1	14·2	110·7	60·7	50·0	25·8
	Waltair (Vizagapatam.)	226	29·648	+·005	29·817	29·986	29·143	·843	·278	79·6	87·3	+0·3	75·3	—0·1	81·3	+0·1	11·9	103·6	61·6	42·0	22·6
	Calingapatam	19	29·851		29·808	30·199	29·339	·860	·275	79·0	88·8		74·2		81·5		14·6	111·4	56·3	55·1	27·6
	Gopalpur	33	29·816	+·006	29·800	30·184	29·398	·786	·262	78·2	86·5	+0·6	74·7	+1·5	80·6	+1·1	11·9	110·0	42·7	67·3	26·2
	Bay Islands.																				
1	P. V. Fraser	8	29·842		29·796	30·180	29·365	·815	·274	80·7											
	Port Blair	58	29·850	—·004	29·838	30·069	29·619	·450	·189	81·9	87·7	+0·5	77·8	+0·8	82·7	+0·6	9·9	95·6	68·7	26·9	17·1
	Table Island	90	29·809	—·007	29·838	30·051	29·554	·497	·211	81·3	86·0	+0·3	78·2	+1·1	82·1	+0·7	7·8	92·4	67·9	24·5	14·7
	Kashmir.																				
13	Muzaffarabad		27·477			27·897	27·005	·892	·327	62·3	83·5‡		58·4*		69·7‡		27·5‡	104·0	32·7	71·3	41·2‡
	Srinagar	5,204	24·903	+·016	24·874	25·256	24·510	·746	·310	50·5	66·2	+0·1	44·2	+0·1	55·2	+0·1	22·0	94·9	5·8	89·1	39·6
	Gulmarg§	*8,569*	21·813	+·005	21·781	21·985	21·635	·350	·241	62·9	70·8	+4·1	47·4	+0·5	59·1	+2·3	23·4	84·9	36·3	48·6	39·6
	Oras	*10,059*	20·836	+·041	20·804	21·173	20·357	·816	·330	30·5	49·4	—1·6	22·9	+1·6	30·1	0	26·5	83·1	—30·4	113·5	46·6

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 11 months.
† " " 5 "
§ " " 4 "

B.—contd.

stations in India, etc., in the year 1915.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									XIV.—Mysore.
59	0	10	41	37	2	81	100	35	5·4	5·9	—0·5	71	+1	·584	+·004	4·8	0	57	48·3	+8·7	24·35	25·34	—0·99	1·96	Chitaldrug.
47	16	16	55	31	5	39	103	53	5·5	2·6	+2·9	80	+3	·588	+·009	4·9	—0·7	73	66·7	+6·3	35·54	35·91	—0·37	2·54	Hassan.
6	7	30	66	36	8	63	116	33	6·4	4·6	+1·8	79	+1	·596	+·015	5·1	0	58	50·2	—1·2	37·64	35·51	+2·13	2·80	Bangalore.
26	11	45	40	16	17	93	102	15	6·1	7·3	—1·2	75	—2	·612	+·004	5·1	—0·8	66	55·6	+10·4	43·31	31·30	+12·01	4·14	Mysore.
																									XV.—Madras.
17	53	60	135	24	7	19	27	23	4·9	2·1	+2·8	77	0	·795	+·022	4·8	—0·4	105	116·4	—11·4	106·77	127·08	—20·31	5·72	Mangalore.
92	15	32	73	35	4	14	24	76	4·8	6·3	—1·5	87	+4	·852	+·044	4·8	—0·1	110	114·0	—4·0	123·84	117·00	+6·84	5·85	Calicut.
33	14	121	122	20	7	16	14	18	5·1	4·0	+1·1	80	—1	·820	+·011	4·8	—0·1	141	128·5	+12·5	130·59	113·83	+16·76	6·01	Cochin.
78	95	42	29	4	2	4	18	92	4·3	4·4	—0·1	82	0	·806	+·016	6·1	+0·6	106	94·0	+12·0	87·81	63·33	+24·48	6·22	Trivandrum.*
48	40	53	13	36	57	80	19	19	8·4	7·5	+0·9	81	+1	·867	—·002	3·8	+0·3	48	46·2	+1·8	34·41	37·19	—2·78	2·55	Pamban.
9	64	66	34	8	5	7	76	96	4·2‡	3·0‡	+1·2‡	71	0	·766	+·018	6·3	+2·0?	58	49·0	+9·0	41·10	34·30	+6·80	2·85	Madura.
77	55	68	2	4	14	30	32	83	4·5	...	...	75	+1	·789	+·035	4·3	—1·6	56	54·6	+1·4	38·48	33·70	+4·78	2·20	Pudukkottai.
7	15	37	14	16	15	106	96	59	7·5	5·0	+2·5	80	+5	·864	+·056	5·3	+0·2	66	55·8	+10·2	41·58	53·56	—11·98	2·90	Negapatam.
24	43	45	5	7	12	75	102	49	4·2	4·2	0	71	—1	·749	+·007	4·1	—0·5	55	46·1	+8·9	37·89	32·86	+5·03	3·00	Trichinopoly.
89	24	63	20	13	45	104	7	0	3·9	3·1	+0·8	76	—7?	·691	—·041?	3·6	—1·3	49	45·0	+4·0	27·93	22·10	+5·83	3·30	Coimbatore.
94	12	14	63	2	37	45	84	13	4·2	3·1	+1·1	79	+2	·760	+·015	4·4	—0·1	69	64·4	+4·6	44·40	40·20	+4·20	2·54	Salem.*
76	21	9	5	16	24	125	13	76	4·7	1·8	+2·9	77	—4	·802	—·035	4·7	+0·4	48	56·2	—8·2	38·83	50·89	—12·06	3·43	Cuddalore.
186	3	11	0	4	1	8	103	49	2·4	...	...	79	+4	·767	+·049	3·7	—0·2	63	56·7	+6·3	47·70	45·33	+2·37	3·36	Vellore.
12	42	14	7	6	66	96	71	51	4·5	5·0	—0·5	78	+1	·838	+·027	4·4	—0·5	59	57·9	+1·1	56·61	49·47	+7·14	8·38	Madras.
9	22	14	41	70	22	13	97	77	...	...	...	68	+1	·725	+·016	3·9	—0·4	45	46·0	—1·0	35·82	31·63	+4·19	5·17	Cuddapah.
58	18	9	32	41	17	28	90	72	5·1	4·8	+0·3	66	+5	·628	+·059	4·5	—0·1	47	35·5	+11·5	35·35	19·98	+15·37	4·10	Bellary.
68	8	25	44	17	13	48	75	66	5·4	...	...	70	+2	·664	+·026	4·5	+0·7	48	47·5	+0·5	26·15	26·92	—0·77	2·80	Kurnool.*
78	30	8	2	2	59	35	64	87	4·0	4·9	—0·9	78	+2	·804	+·010	4·8	—1·0	55	42·0	+13·0	64·49	34·97	+29·52	8·47	Nellore.
31	69	45	13	22	35	36	53	61	5·8	4·8	+1·0	79	—3?	·821	—·036	5·1	+0·1	71	53·1	+17·9	68·04	40·00	+28·04	5·25	Masulipatam.
89	50	43	6	5	5	59	84	24	5·7	5·8	—0·1	81	+4	·834	+·044	5·6	+1·0	65	52·9	+12·1	48·59	38·96	+9·63	2·68	Cocanada.
52	55	30	14	10	30	122	37	15	5·2	...	...	75	+3	·770	+·023	5·0	—0·1	59	50·0	+9·0	55·14	37·26	+17·88	3·96	Waltair (Vizagapatam).
43	40	25	11	6	23	58	77	81	6·7	...	...	80	...	·805	...	3·4	...	62	48·2	+13·8	56·76	36·49	+20·27	6·39	Calingapatam.*
32	92	7	6	8	66	70	10	74	7·9	8·6	—0·7	81	0	·804	+·021	4·1	+1·7	59	57·0	+2·0	63·64	44·87	+18·97	6·53	Gopalpur.
																									Bay Islands.
9	55	39	17	17	53	110	37	28	...	...	...	83	...	·883	...	4·8	...	69	...	...	51·36	...	...	5·22	P. V. Fraser.
74	36	42	21	14	20	44	53	58	5·5	5·5	0	81	—4	·878	—·010	5·8	—0·2	127	140·0	—13·0	107·99	118·49	—10·50	5·60	Port Blair.
18	48	35	38	28	38	75	54	31	10·5	...	...	82	0	·881	+·018	5·8	—1·1	85	100·4	—15·4	66·86	79·07	—12·21	7·75	Table Island.
																									Kashmir.
320	5	7	2	1	2	7	2	2	1·0	...	...	65	...	·400	...	2·5	...	70	...	...	48·08	...	...	2·64	Muzaffarabad.†
114	12	8	19	101	49	17	14	31	2·4	2·6	—0·2	77a	—9a	·346a	—·020a	4·4	—0·2	41	59·7	—18·7	20·58	27·24	—6·66	1·89	Srinagar.
46	20	18	4	6	2	4	2	17	2·5	...	...	68	—11	·390	—·006	3·3	—0·6	27	35·1	—8·1	12·78	16·35	—3·57	3·10	Gulmarg.
304	6	0	2	0	3	7	23	20	3·2	...	...	64b	—1b	·254b	—·003b	3·5	—0·6	38	57·1	—19·1	14·07	21·78	—7·71	1·53	Dras.e

* Wind observations for 364 days.
† " " " 348 "
e " " " 119 "

‡ Mean of 10 months.
a " " 11 "
b " " 6 "

TABLE

(2) *Abstract of observations taken at 8 hrs. at 220*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. dry-bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Kashmir—*concld.*																				
	Leh	*11,503*	19·739	+·085	19·707	20·025	19·241	·784	·325	39·4	57·4	+2·0	30·9	+1·2	44·1	+1·6	26·6	82·7	−2·6	85·3	42·3
	Skardu	7,505	22·945*	+·038*	22·915*	23·370	22·442	·928	·399*	46·6	65·3	+3·0	37·8‡	−1·2‡	50·8‡	+0·9‡	26·0‡	99·1	−5·8	104·9	44·9‡
	Gilgit	4,890	25·170	+·041	25·143	25·626	24·696	·930	·413	60·1	76·5	+3·9	52·3	−0·3	64·4	+1·8	24·2	106·7	25·7	81·0	40·3
	Baluchistan.																				
15	Fort Sandeman	4,614	25·382	...	25·351	25·709	24·993	·716	·280	58·9	85·6	...	53·2	...	69·4	...	32·5	110·7	15·3	95·4	47·0
	Quetta	5,502	24·623	−·005	24·583	24·863	24·309	·559	·244	48·6	76·6	+3·0	43·0	−1·4	59·7	+0·8	33·6	101·5	16·7	84·8	49·4
	Chaman	4,311	25·661	−·014	25·623	25·950	25·300	·650	·266	62·1	82·0‡	+2·7‡	57·0‡	+1·5‡	72·0*	+2·3*	25·1*	108·5	16·3	92·2	42·6*
	Kalat	6,630	23·742	...	23·704	23·960	23·478	·482	·222	45·9	74·4	+0·6	39·9	+4·4	57·2	+2·5	34·4	100·9	12·5	88·4	51·8
	Dalbandin	2,772	27·090	...	27·053	27·448	26·719	·729	·283	61·0	88·9	...	53·5	...	71·2	...	35·3	117·1	17·8	99·3	55·7
	Pasni	...	29·869	...	29·829	30·291	29·392	·899	·297	73·6	86·6	...	66·1	...	76·3	...	20·4	109·8	41·3	68·5	36·8
	Panjgur	...	26·713	...	26·671	27·040	26·341	·699	·255	60·1	86·6	...	56·9	...	71·7	...	29·7	111·2	27·5	83·7	46·4
	Robat	...	26·856	...	26·814	27·212	26·484	·728	·322	66·3	89·1	...	63·9‡	...	77·4‡	...	27·1‡	117·3	27·3	90·0	46·5‡
	Hill stations, excluding Kashmir and Baluchistan.																				
	Para Chinar	6,000	24·432	+·011	24·408	24·649	24·047	·602	·241	58·8	73·5	+3·5	48·5	+0·5	61·0	+2·0	25·0	101·3	20·1	81·2	41·2
	Cherat	*4,256*	25·696	+·023	25·664	26·005	25·307	·698	·294	63·9	75·0	+2·0	57·7	+1·1	66·3	+1·6	17·3	104·3	25·4	78·9	36·4
	Drosh	...	25·095§	...	...	25·450	24·700	·750	·285	58·1	75·4	+2·5	54·9	+3·3	65·1	+2·9	20·5	104·7	27·2	77·5	39·3
	Murree	6,333	23·846	+·020	23·814	24·066	23·517	·549	·251	57·0	65·9	+0·8	52·9	+2·7	59·4	+1·8	13·0	91·3	23·0	68·3	31·5
	Simla	7,232	23·113	+·029	23·075	23·305	22·857	·448	·231	55·2	61·9	+1·0	51·3	+1·6	56·6	+1·3	10·6	81·5	28·1	53·4	25·2
	Sarain	...	23·145	+·010	23·107	23·345	22·873	·472	·229	48·4	63·1	+1·5	43·4	+0·8	53·3	+1·1	19·7	82·0	21·6	60·4	32·1
	Kalabagh †	...	20·112	−·001	20·074	20·278	19·918	·360	·223	50·0	55·3	+0·7	45·1	+0·3	50·2	+0·5	10·1	60·8	35·2	25·6	20·5
	Chakrata ‖	7,072	33·384	P	23·345	23·604	23·117	·487	·235	...	...	...	...	...	...	...	...	...	...	...	...
	Mukteswar	7,592	22·836‖	+·006‖	22·794‖	23·039	22·568	·471	·239‖	54·2	63·6	−0·5	49·7	+1·4	56·7	+0·5	13·9	81·0	28·6	52·4	27·6
	Darjiling	7,432	22·959	+·007‖	22·913	23·146	22·727	·419	·218	53·1	61·9‡	+3·3‡	49·6	+2·1	55·5‡	+2·6‡	12·9‡	76·4	32·4	44·0	24·4‡
	Shillong	4,920	25·131	+·014	25·083	25·354	24·819	·535	·225	61·7	70·1	−0·1	54·2	+1·0	62·1	+0·4	15·8	84·0	34·7	49·3	28·3
	Cherrapunji	4,309	25·685	+·010	25·636	25·919	25·375	·544	·219	63·2	69·5	+0·9	58·0	+0·8	63·7	+0·9	11·5	81·6	42·2	39·4	25·1
	Maymyo	3,546	26·447	+·025	26·392	26·678	26·158	·520	·201	63·6	76·8	−0·1	57·4	+1·5	67·1	+0·6	19·4	89·0	36·7	52·3	30·1
	Pachmarhi	3,528	26·428	−·006	26·375	26·678	26·114	·564	·220	69·2	80·5	+0·7	62·5	+1·5	71·5	+1·1	18·0	103·5	35·1	68·4	32·2
	Mount Abu	3,945	26·032	+·005	25·982	26·268	25·730	·538	·214	69·1	77·2	+1·3	62·5	+0·5	69·9	+0·9	14·7	96·2	44·4	51·8	26·5
	Mercara	3,781	26·227	−·005	26·152	26·381	25·995	·386	·137	66·9	77·5	+0·9	60·9	−0·3	69·2	+0·3	16·5	90·3	50·0	40·3	25·4
	Ootacamund	7,327	23·071	+·019	23·007	23·188	22·862	·326	·121	58·7	67·2	+1·8	49·6	+0·4	58·4	+1·1	17·6	77·3	33·3	44·0	27·9
	Kodaikanal	7,688	22·845	+·012	22·780	22·968	22·645	·323	·116	58·0	66·6	+2·0	52·0	+0·9	59·3	+1·4	14·6	77·2	39·6	37·6	24·2
	Extra India.																				
	Singapore (*a*)	10	29·859	−·076	29·790	30·013	29·706	·307	·143	83·7	88·8	+1·1	74·6	+0·8	81·7	+1·0	14·2	94·5	69·0	25·5	20·4
	Penang (*a*)	17	29·864	−·053	29·806	29·995	29·738	·257	·134	82·5	89·5	0	73·7	−0·2	81·6	−0·1	15·7	97·0	69·0	28·0	21·6
	Trincomalee	99	29·801	−·006	29·829	29·991	29·564	·427	·154	79·0	91·8	+3·2?	76·9	+0·7	84·4	+1·9?	14·8	101·6	68·4	33·2	23·6

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.

§ Aneroid.
* Mean of 10 months.
† " 5 "
‡ " 11 "
‖ " 7 "

—contd.

ations in India, etc., in the year 1915.

Wind direction. Number of winds from N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity. Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs. Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud. Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall. Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	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
																								Kashmir—*concld.*
13	25	5	13	37	8	4	1	2·9	1·5	+1·4	50*	0*	·154*	+·012*	3·8	−1·0	6	9·6	−3·6	1·59	3·26	− 1·67	0·13	Leh.
0	7	10	4	3	29	14	2	2·6	...	...	57*	− 9*	·245*	+·001*	2·9	−1·9	22	19·0	+3·0	6·21	7·48	− 1·27	1·20	Skardu.
0	2	0	5	0	13	1	2	0·4	...	...	56	+ 6	·328	+·066	2·9	−2·0	10	15·9	−5·9	4·40	5·11	− 0·71	1·59	Gilgit.¶
																								Baluchistan.
2	6	0	0	0	3	2	3	1·5	...	...	48	...	·278‡	...	0·7	...	20	...	...	7·50	...	...	1·03	Fort Sandeman.
8	8	13	31	20	7	4	12	2·0	2·1	−0·1	65†	+15†	·344†	+·004†	1·6	−0·3	14	24·3	−10·3	4·41	10·02	−5·61	0·64	Quetta.
1	1	163	102	39	17	5	6	4·5	5·9	−1·4	36	−10	·107	−·002	1·2	−0·7	14	18·6	− 4·6	5·72	6·68	−0·96	0·80	Chaman.
1	0	1	1	4	4	1	1	4·1	...	...	55†	+11†	·255†	−·023†	1·3	...	10	17·8	− 7·8	4·13	6·74	−2·61	1·08	Kalat.
35	66	22	17	15	24	21	16	4·2	...	...	33‡	...	·177‡	...	1·4	...	8	...	...	2·91	...	...	1·12	Dalbandin.
55	11	17	8	7	22	111	60	6·3	...	...	75	...	·679	...	3·0	...	12	...	...	7·89	...	...	1·27	Pasni.
19	130	69	3	4	11	6	8	4·7	...	...	59	...	·353	...	1·4	...	9	...	...	6·02	...	...	1·86	Panjgur.¶
1	17	6	3	11	98	131	11	4·2	...	...	41	...	·285	...	0·4	...	8	...	...	1·97	...	...	0·82	Robat.
																								Hill stations, excluding Kashmir and Baluchistan.
0	0	0	0	0	0	0	0	1·0	...	...	55	0	·287	+·010	1·6	−1·8	54	63·8	− 9·8	35·41	27·85	+ 7·56	4·00	Para Chinar.
176	7	2	24	62	10	7	30	6·1	8·3	−2·2	47	−6	·310	−·006	2·8	−0·2	31	41·7	−10·7	28·74	27·48	+ 1·26	5·24	Cherat.
2	10	31	11	3	11	1	0	3·0	...	...	51	−9	·264	−·033	2·6	−0·3	28	40·2	−12·2	15·13	16·94	− 1·81	1·37	Drosh.
61	13	34	76	4	0	1	18	4·0	5·3	−1·3	53	−3	·268	−·001	3·3	−0·3	72	76·3	− 4·3	67·13	57·97	+ 9·16	5·54	Murree.**
...	...	...	...	...	...	...	...	...	...	...	56	−1	·265	+·009	3·7	−0·4	86	85·1	+ 0·9	59·96	63·11	− 3·15	3·21	Simla.
...	...	...	...	...	...	...	...	...	...	...	76	+6	·276	+·015	3·7	−0·3	83	91·0	− 8·0	67·26	64·55	+ 2·71	3·44	Sarain.
68	2	0	1	18	4	0	22	6·1	...	...	77	+3	·282	+·015	5·9	+0·3	60	63·5	− 3·5	47·26	55·00	− 7·74	4·72	Kalabagh.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4·7	+1·2	57	62·6	− 5·6	35·28	56·93	−21·70	3·41	Chakrata.
5	15	63	28	11	22	131	9	5·8	...	...	63	+2	·289	+·017	4·3	+0·2	87	79·6	+ 7·4	59·23	50·90	+ 8·33	3·56	Mukteswar.
0	0	1	6	0	2	17	2	0·9	3·5	−2·6	85	0	·363	+·010	6·8	+1·0	133	121·3	+11·7	107·14	121·00	−13·86	9·35	Darjiling.
2	1	19	22	31	40	8	1	1·6	...	...	76	+2	·433	+·021	5·2	+0·9	140	125·7	+14·3	105·95	84·65	+21·30	4·15	Shillong.
16	62	58	22	31	48	41	7	4·0	...	...	82	+1	·487	+·018	6·1	+0·7	151	161·8	−10·8	506·88	409·90	+96·98	32·35	Cherrapunji.
0	5	1	2	6	79	1	0	1·6	...	...	89	+5	·542	+·003	4·5	+0·2	95	90·6	+ 4·4	79·90	56·57	+23·33	4·08	Maymyo.
8	21	21	36	21	55	66	81	4·7	4·3	+0·4	67	+7	·474	+·044	3·4	−0·3	81	76·9	+ 4·1	86·72	75·33	+11·39	4·82	Pachmarhi.
14	42	2	27	5	124	35	34	5·2	5·7	−0·5	52	−2	·371	+·004	2·9	−0·4	31	53·9	−22·9	19·63	60·80	−41·17	2·05	Mount Abu.
9	57	66	3	0	35	85	36	3·5	4·3	−0·8	84	−1	·549	+·007	5·9	−0·4	128	133·3	− 5·3	116·71	126·88	−10·17	5·36	Mercara.
1	7	53	83	34	18	63	26	3·4	...	...	73	+5	·359	+·035	5·3	+0·3	123	104·7	+18·3	68·48	56·20	+12·28	3·29	Ootacamund.
35	54	55	52	11	10	75	70	8·2	...	...	72	+3	·344	+·022	4·5	0	107	107·7	− 0·7	53·70	61·65	− 7·95	2·99	Kodaikanal.
																								Extra India.
14	49	9	44	19	37	10	28	...	...	...	...	...	...	...	6·0	+0·8	132	133·4	− 1·4	89·08	93·99	− 4·91	3·08	Singapore.
34	39	56	43	12	9	30	20	7·6‖	...	...	...	...	...	...	7·1§	+5·5§	134	132·6	+ 1·4	107·69	106·41	+ 1·28	4·93	Penang.††
4	58	8	2	1	147	106	7	6·5	7·3	−0·8	84	0	·832	−·027	6·4	+3·1	65	71·8	− 6·8	44·85	62·16	−17·31	3·10	Trincomalee.‡‡

* Mean of 10 months.
† " " 8 "
‡ " " 11 "
§ " " 2 "
‖ " " 5 "

¶ Wind observations for 363 days.
** " " " 363 "
†† " " " 243 "
‡‡ " " " 364 "

TABL

(2) *Abstract of observations taken at 8 hrs. at 22*

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 of year.	Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat.	Highest pressure of year.	Lowest pressure of year.	Absolute range during year.	Mean monthly range of pressure.	Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	Extra India —*concld.*																				
	Colombo	24	29·909	—·008	29·858	30·060	29·697	·363	·142	76·9	87·0	—0·2	75·0	—0·5	81·0	—0·3	12·0	98·4	66·3	32·1	19·
	Hambantota	64	29·861	...	29·851	30·031	29·659	·372	·142	76·9	87·5	...	75·8	...	81·6	...	11·7	96·4	68·9	27·5	19·
	Minicoy	7	29·955	+·017	...	30·103	29·765	·338	·129	...	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi	13	29·927	—·002	29·868	30·107	29·713	·394	·154	82·6	89·2	+2·2	77·7	+0·7	83·4	+1·5	11·5	97·4	65·9	31·5	19·
	Gyantse	13,120	18·493	...	18·460‖	18·672	18·187	·485	·251	39·2	56·5	...	26·5**	...	42·1**	...	31·2**	75·1	— 1·0	76·1	50·
	Pharijong	14,400	...	...	...	...	...	...	...	33·5§	...	...	26·2†	...	...	...	...	...	2·0	...	...
	Gangtok	5,667	24·451	—·006	24·406	24·646	24·211	·435	·217	59·7	70·1	+1·9	54·0	+5·1	62·0	+5·0	16·1	81·4	36·1	45·3	26·
	Gartok *	15,100	...	...	...	...	...	...	...	42·7	62·5	...	36·7	...	49·6	...	25·9	73·6	20·5	53·1	41·
	Kashgar (*a*)	4,255	25·563	—·056	...	26·070	25·140	·930	·497	51·2	70·1	+3·5	44·1	+1·1	57·1	+2·3	26·0	104·5	7·7	96·8	48·
	Kabul (*a*)	...	24·165	—·090?	...	24·450	23·830	·620	·263	46·7	80·4	+8·3	47·4‖	0‖	66·9‖	+3·5‖	39·3‖	111·6	19·8	91·8	57·
	Meshed	3,104	26·835	...	29·964	27·283	26·479	·804	·416	53·1	74·3	+5·7	43·3	—1·2	58·8	+2·3	31·0	104·4	5·0	99·4	52·
	Jask	13	29·851	—·003	29·817	30·323	29·359	·964	·312	77·3	88·7	+2·3	75·3**	+1·2**	82·4**	+1·7**	13·6**	111·1	53·4	57·7	26·7
	Muscat	20	29·873	+·016	29·841	30·358	29·383	·975	·301	81·6	90·2	+5·1	78·3	—0·2	84·2	+2·5	11·9	114·2	62·2	52·0	25·
	Bushire	14	29·858	+·001	29·834	30·364	29·360	1·004	·284	73·5	82·0	—0·1	69·0	+0·5	75·5	+0·2	12·9	111·9	47·5	64·4	29·
	Busrah **	25	29·814¶	—·048¶	29·808¶	30·347	29·287	1·060	·337¶	73·6	91·0	+4·5	65·1	—1·8	78·1	+1·4	25·9	119·1	32·6	86·5	46·
	Kerman (*a*) **	...	24·507	...	...	24·770	24·315	·455	·260	58·4	83·7	...	57·9	...	71·8	...	27·8	108·0	13·8	94·2	47·
	Ispahan (*a*) §	5,817	24·274	—·032‡	...	24·510	23·960	·550	·336	52·6	72·3	+0·8‡	45·7	+2·8‡	58·9	+1·8‡	26·6	100·4	16·2	84·2	43·
	Tehran (*a*) **	4,002	25·736	—·178	...	26·100	25·440	·660	·351	56·3	71·7	+0·8	51·0	+2·8	61·4	+1·8	20·7	103·3	18·6	84·7	39·
	Baghdad	127	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Aden	94	29·813	—·016	29·840	30·111	29·516	·595	·200	81·2	88·4	+0·4	79·1	+1·1	83·7	+0·8	9·4	99·8	67·4	32·4	17·
	Zanzibar	72	30·000	+·007	29·998	30·153	29·843	·310	·143	79·6	84·7	+0·9	77·0	+0·6	80·9	+0·7	7·8	93·8	70·4	23·4	13·

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*) Aneroid.

* Mean of 4 months.
† " " 5 "
‡ " " 7 "
‖ " " 8 "
§ " " 9 "
¶ " " 10 "
** " " 11 "

3.—concld.

tations in India, etc., in the year 1915.

Wind direction. Number of winds from: Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	Wind velocity: Mean velocity in miles per hour of year.	Normal velocity of year.	Departure from normal of year.	Hygrometry, 8 hrs.: Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Cloud: Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Rainfall: Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Rainfall of year.	Normal rainfall of year.	Departure from normal of year.	Heaviest rainfall during year.	Station.
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
																									Extra India —*concld.*
95	30	102	5	2	2	87	30	12	4·0	5·8	—1·8	90	+ 8	·829	—·025	9·1	+3·8	115	108·7	+ 6·3	96·55	84·53	—12·02	7·00	Colombo.
3	90	51	1	1	0	49	129	41	8·8	8·5	+0·3	90	...	·832	...	4·1	...	65	...	...	41·20	36·84	+ 4·36	3·95	Hambantota.
35	89	39	16	8	5	20	98	65	4·5	6·9	—2·4	...	...	...	...	4·3	—0·3	87	92·5	— 5·5	60·84	61·84	— 1·00	4·50	Minicoy.
11	94	40	4	4	1	33	63	115	8·2	...	...	77	0	·854	—·006	5·0	—0·4	76	74·6	+ 1·4	67·71	52·36	+15·35	8·57	Amini Divi.
39	8	1	33	108	62	4	4	4	4·9§§	...	...	66‡‡	...	·186‡‡	...	1·5§§	...	42‡	...	...	12·22‡	...	...	0·80	Gyantse. (*f*)
6	30	13	20	64	37	22	23	9	6·7††	...	...	73¶	...	·190¶	...	3·7‖	...	40*	...	...	10·78*	...	...	0·98	Pharijong. (*a*)
45	1	6	1	1	3	5	2	0	0·8	...	...	86	+ 4	·457	+·038	1·8	—2·1	153	165·4	—12·4	142·21	135·11	+ 7·10	6·57	Gangtok. (*g*)
8	2	0	1	24	8	4	0	5	6·7	...	...	...	...	...	...	3·1	...	10	...	...	2·88	...	...	0·50	Gartok.
3	9	31	3	15	10	2	8	24	1·3	2·1	—0·8	59	...	·255	...	3·8	+0·3	5	8·8	— 3·8	1·21	3·28	— 2·07	0·50	Kashgar.
2	1	21	8	28	20	93	150	42	...	...	...	71	+10	·243	—·016	1·2§§	—0·7§§	20	27·8	— 7·8	20·89	12·89	+ 8·00	2·61	Kabul.
0	18	1	1	4	8	0	1	2	1·5	...	...	64§§	— 1	·291§§	—·007	2·7	—0·2	23	22·5	+ 0·5	8·97	9·37	— 0·40	1·25	Meshed.
5	52	65	128	14	3	4	9	75	8·1	8·7	—0·6	71	— 1	·700	—·034	1·4	- 0·5	1	8·9	— 7·9	0·22	4·17	— 3·95	0·18	Jask.
6	19	13	73	20	1	9	22	132	1·7	3·1	—1·4	62	— 6	·678	—·059	1·7	—0·2	7	8·2	— 1·2	1·93	3·94	— 2·01	0·50	Muscat.
6	40	45	29	21	9	6	28	91	5·9	5·8	+0·1	73	+ 4	·642	+·023	2·7	+0·6	11	18·0	— 7·0	6·73	11·07	— 4·34	2·03	Bushire.
4	36	8	19	22	12	46	109	52	4·7	...	...	65	...	·557	...	0·1§	...	1†	10·3†	— 9·3†	0·21†	4·17†	— 3·96†	0·17	Busrah. (*e*)
5	2	0	1	2	0	0	2	1	3·3‡‡	...	...	49	...	·255	...	1·4	...	7	...	...	2·58	...	...	0·78	Kerman. (*c*)
6	1	3	1	0	1	11	21	4	1·3	3·2	—1·9	56¶	— 5‖	·286¶	—·032‖	2·4	+0·4**	10	11·5	— 1·5	4·29	3·74	+ 0·55	1·75	Ispahan. (*b*)
8	21	120	14	11	11	29	6	2	2·8	2·3	+0·5	58	+ 5	·284	+·005	2·4	—0·1	22	26·3	— 4·3	7·79	9·08	— 1·29	0·72	Tehran. (*d*)
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Baghdad.
0	43	177	31	12	15	4	2	1	9·8	9·1	+0·7	76	+ 2	·824	+·026	3·4	—0·6	0	4·5	— 4·5	0	2·24	— 2·24	0	Aden.
9	37	37	8	41	99	70	4	0	4·7	4·9	—0·2	81	— 2	·813	—·002	6·6	+0·4	79	88·8	— 9·8	51·62	63·30	—11·68	4·37	Zanzibar.

* Total of 7 months.
† " " 10 "
‡ " " 11 "
§ Mean of 3 months.
‖ " " 5 "
¶ " " 6 "
** " " 7 "
†† " " 8 "
‡‡ " " 10 "
§§ " " 11

(*a*) Wind observations for 224 days.
(*b*) " " " 228 "
(*c*) " " " 303 "
(*d*) " " " 322 "
(*e*) " " " 328 "
(*f*) " " " 363 "
(*g*) " " " 364 "

Table C.—Abstract of observations taken at 8 hrs. at 62 fourth and fifth class stations in India, etc., in the year 1915.

TABLE

Abstract of observations taken at 8 hrs. at 62 fourth and

Number of sub-division.	Station.	Temperature of air.												Wind direction. Number of winds from								
		Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	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
	II.—Assam.																					
4	Bishnath	71·3	83·9*	+1·1*	65·8	+4·6	74·4*	+2·9*	19·1*	95·7	39·9	55·8	32·7*	...	...	...	...	...	...	...	...	...
	Borjuli	72·6	85·7	+0·8	64·9	+1·6	75·3	+1·2	20·7	97·3	40·0	57·3	32·3	...	...	...	...	...	...	...	...	...
	Chandkhira	72·1	89·1	+2·8	65·4	+0·9	77·3	+1·9	23·6	102·1	43·5	58·6	37·1	...	...	...	...	...	...	...	...	...
	Doom Dooma	67·3	85·2	+5·5	64·7	+2·1	74·9	+3·8	20·5	98·5	39·5	59·0	33·7	...	...	...	...	...	...	...	...	...
	Dikom	69·7	83·7	+1·5	65·1	+1·9	74·4	+1·7	18·7	98·0	37·6	60·4	33·5	...	...	...	...	...	...	...	...	...
	Golaghat	69·7	82·7	+1·1	65·4		74·1		17·3	93·9	42·4	51·5	28·7	...	...	...	...	...	...	...	...	...
	Hailakandi	73·5	86·5	+0·5	67·5	+1·6	77·0	+1·1	19·0	98·0	48·8	49·2	31·5	...	...	...	...	...	...	...	...	...
	Jorehat	70·5	84·0	+1·0	66·5	+1·4	75·3	+1·2	17·6	95·3	42·2	53·1	28·8	...	...	...	...	...	...	...	...	...
	Lumding	70·4	84·4		66·9*		76·0*		18·3*	96·3	43·5	52·8	29·9*	...	...	...	...	...	...	...	...	...
	Messa	74·6	88·3	0	64·3	+1·9	76·3	+1·0	23·9	101·6	42·1	59·5	35·8	...	...	...	...	...	...	...	...	...
	Panerihat	66·4	85·7	+2·5	61·5	−1·1	73·6	+0·7	24·2	94·6	38·0	56·6	33·2	...	...	...	...	...	...	...	...	...
	III.—Bengal.																					
5	Comilla	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Brahmanbaria	76·0	86·7	+0·3	69·3	+1·4	78·0	+0·9	17·4	99·0	49·7	49·3	29·4	...	...	...	...	...	...	...	...	...
	Faridpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Goalundo	75·6	87·6	+0·8	68·2	+1·3	77·9	+1·0	19·4	104·5	43·1	61·4	32·5	...	...	...	...	...	...	...	...	...
	Pabna	76·3	88·8	−1·1	70·9	+4·5	79·7	+1·7	17·8	105·0	50·9	54·1	30·1	...	...	...	...	...	...	...	...	...
	Sirajganj	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rampur Boalia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Malda	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Rangpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dara Dim*	68·7	90·9	+3·0	63·1	+1·8	77·0	+2·4	27·7	100·1	39·6	60·5	39·1	...	...	...	...	...	...	...	...	...
	Kalchini	76·1	85·6	+0·8	63·4	+0·7	74·5	+0·8	22·2	94·6	43·0	51·6	31·3	...	...	...	...	...	...	...	...	...
	Nagrakata	75·5	85·7	+1·0	65·0	+0·2	75·4	+0·6	20·7	94·1	46·0	48·1	29·3	...	...	...	...	...	...	...	...	...
	Cooch Behar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Krishnagar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bankura	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Raniganj (Asansol)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IV.—Bihar and Orissa.																					
7	Hazaribagh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	Bhagalpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Muzaffarpur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Motihari	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chapra	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Arrah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehri	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Mean of 11 months.

C.

fifth class stations in India, etc., in the year 1915.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																II.—Assam.
...	...	...	90	— 3	·720	+ ·043	...	...	116	117·6	— 1·6	110·95	88·58	+ 22·37	6·20	Bishnath.
...	...	...	84	— 3	·695	+ ·012	...	...	108	110·8	— 2·8	97·19	77·73	+ 19·46	6·77	Borjuli.
...	...	...	92	+ 1	·746	+ ·032	...	...	140	130·3	+ 9·7	132·19	106·52	+ 25·67	9·35	Chandkhira.
...	...	...	92	— 1	·646	— ·022	...	...	131	129·5	+ 1·5	105·70	96·74	+ 8·96	3·38	Doom Dooma.
...	...	...	90	— 1	·684	+ ·031	...	...	132	135·1	— 3·1	113·63	102·47	+ 11·16	4·95	Dikom.
...	...	...	94	+ 4	·720	+ ·025	...	...	120	110·6	+ 9·4	75·80	65·66	+ 10·14	3·24	Golaghat.
...	...	...	88	— 3	·750	+ ·058	...	...	132	136·9	— 4·9	150·45	121·31	+ 29·14	12·45	Hailakandi.
...	...	...	91	+ 1	·708	+ ·021	...	...	124	115·8	+ 8·2	96·83	76·37	+ 20·46	4·60	Jorehat.
...	...	...	92	...	·704	...	...	...	90	76·9	+ 13·1	62·63	49·01	+ 13·62	2·93	Lumding.
...	...	...	77	— 4	·658	— ·012	...	...	121	112·7	+ 8·3	74·01	83·62	— 9·61	3·40	Messa.
...	...	...	96	+ 5	·651	+ ·048	...	...	98	100·7	— 2·7	104·96	74·30	+ 30·66	9·04	Panerihat.
																III.—Bengal.
...	...	...	...	...	...	...	...	...	104	100·1	+ 3·9	110·32	88·38	+ 21·94	9·66	Comilla.
...	...	...	81	— 3	·752	— ·005	...	...	104	103·8	+ 0·2	114·65	79·33	+ 35·32	9·81	Brahmanbaria.
...	...	...	...	...	...	...	...	...	100	90·8	+ 9·2	96·52	69·30	+ 27·22	8·39	Faridpur.
...	...	...	83	+ 1	·765	+ ·022	...	...	92	90·1	+ 1·9	76·05	66·28	+ 9·77	3·60	Gealandó.
...	...	...	85	+ 4	·803	+ ·062	...	...	83	81·3	+ 1·7	66·96	60·11	+ 6·85	3·24	Pabna.
...	...	...	...	...	...	...	...	...	94	81·8	+ 12·2	73·99	64·30	+ 9·69	3·30	Sirajganj.
...	...	...	...	...	...	...	...	...	80	73·7	+ 6·3	69·42	53·98	+ 15·44	5·50	Rampur Boalia.
...	...	...	...	...	...	...	...	...	63	67·8	— 4·8	42·08	52·82	— 10·74	4·61	Malda.
...	...	...	...	...	...	...	...	...	87	82·7	+ 4·3	81·34	80·53	+ 0·81	5·65	Rangpur.
...	...	...	91	— 1	·673	0	...	...	129	121·5	+ 7·5	164·80	154·04	+ 10·76	8·35	Dam Dim.
...	...	...	75	— 6	·720	+ ·009	...	...	132	115·7	+ 16·3	129·32	150·71	— 21·39	4·40	Kalchini.
...	...	...	74	— 6	·675	+ 0·25	...	...	132	132·1	— 0·1	152·55	161·05	— 8·50	14·18	Nagrakata.
...	...	...	...	...	...	...	...	...	101	103·6	— 2·6	114·75	145·70	— 30·95	5·40	Cooch Behar.
...	...	...	...	...	...	...	...	...	80	76·0	+ 4·0	49·71	57·05	— 7·34	2·50	Krishnagar.
...	...	...	...	...	...	...	...	...	76	73·3	+ 2·7	44·99	54·39	— 9·40	4·91	Bankura.
...	...	...	...	...	...	...	...	...	57	73·2	— 16·2	30·95	52·72	— 21·77	4·06	Raniganj (Asansol.)
																IV.—Bihar and Orissa.
...	...	...	...	...	...	...	...	...	64	75·4	— 11·4	40·58	52·25	— 11·67	2·56	Hazaribagh.
...	...	...	...	...	...	...	...	...	62	60·0	+ 2·0	43·86	49·00	— 5·14	3·95	Bhagalpur.
...	...	...	...	...	...	...	...	...	63	56·1	+ 6·9	48·52	49·11	— 0·59	2·84	Muzáffarpur.
...	...	...	...	...	...	...	...	...	67	58·7	+ 8·3	62·85	56·17	+ 6·68	3·00	Motihari.
...	...	...	...	...	...	...	...	...	58	52·2	+ 5·8	41·61	41·81	— 0·20	3·41	Chapra.
...	...	...	...	...	...	...	...	...	57	55·1	+ 1·9	45·85	44·25	+ 1·60	3·83	Arrah.
...	...	...	...	...	...	...	...	...	57	54·0	+ 3·0	37·69	42·16	— 4·47	3·97	Deori.

* Mean of 9 months.
‡ Total „ 12 „

TABLE

Abstract of observations taken at 8 hrs. at 62 fourth and

Number of sub-division.	Station.	Temperature of air. Mean of 8 hrs. dry bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	Wind direction. Number of winds from 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
	V.—United Provinces of Agra and Oudh.																					
10	Meerut	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Dehra Dun	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	IX.—Rajputana.																					
18	Udaipur	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XII.—Central Provinces.																					
23	Chhindwara	71·8	87·3	...	65·3	...	76·3	...	22·0	109·9	41·7	68·2	36·0	231	21	12	4	1	2	14	37	43
	XIII.—Hyderabad.																					
	Parbhani	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	XV.—Madras.																					
31	Tinnevelly	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Anantapur	78·8	93·6	...	72·1	...	82·9	...	21·5	107·1	51·1	56·0	33·0	...	...	...	...	...	...	...	...	...
33	Guntur	79·9	92·9	...	74·5	...	83·7	...	18·4	114·7	58·0	56·7	31·8	...	...	...	...	...	...	...	...	...
	Bay Islands.																					
1	Car Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kashmir.																					
13	Jammu	73·6	86·2	...	66·6	...	76·4	...	19·6	110·6	40·3	70·3	34·6	0	177	146	12	5	22	1	1	1
	Sonamarg	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kargil	42·7	63·5	...	31·0	...	47·2	...	32·4	101·3	—19·0	120·3	52·7	0	130	0	52	81	42	27	0	24
	Baluchistan.																					
	Harnai	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hill stations, exclusive of Kashmir.																					
	Panighatta	72·0	83·7	+0·1	66·3	+1·3	75·0	+0·7	17·4	94·3	46·0	48·3	28·1	...	...	...	...	...	...	...	...	...
	Kurseong	62·7	68·6	+0·5	57·9	+1·2	63·3	+0·9	10·7	77·5	42·4	35·1	19·4	...	...	...	...	...	...	...	...	...
	Gnatong	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lachung	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Ringim	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mussooree	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Poo	...	64·9	+4·1	43·9	+3·3	54·4	+3·7	21·0	88·0	17·7	70·3	35·7	252	3	1	17	12	2	12	61	5
	Kailang	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Bakloh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pishin	...	77·9	+1·4	44·0	+1·8	60·9	+1·6	34·0	103·4	12·0	91·4	50·9	...	...	...	...	...	...	...	...	...

C—contd.

fifth class stations in India, etc., in the year 1915—contd.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																V.—United Provinces of Agra and Oudh.
...	...	...	...	...	...	...	...	...	36	38·9	− 2·9	28·33	32·27	− 3·94	4·09	Meerut.
...	...	...	...	...	...	...	...	...	95	80·4	+14·6	88·34	85·22	+ 3·12	6·11	Dehra Dun.
																IX.—Rajputana.
...	...	...	...	...	...	...	...	...	29	31·5	− 2·5	17·01	23·40	− 6·39	1·49	Udaipur.
																XII.—Central Provinces.
2·0	...	...	67	...	·527	...	2·5	...	69	...	...	48·37	...	...	2·24	Chhindwara.
																XIII.—Hyderabad.
...	...	...	...	...	...	...	...	...	50	46·2	+ 3·8	52·73	31·75	+ 20·98	3·75	Parbhani.
																XV.—Madras.
...	...	...	...	...	...	...	...	...	44	40·4	+ 3·6	30·87	27·29	+ 3·58	3·03	Tinnevelly.
...	...	...	75	...	·736	...	3·2*	...	45	33·1	+11·9	30·30	20·29	+10·01	3·15	Anantapur.
...	...	...	81	...	·829	...	1·5†	...	55	50·2	+ 4·8	48·23	32·55	+15·68	4·90	Guntur.
																Bay Islands.
...	...	...	...	...	...	..	...	...	86	131·2	—45·2	113·79	98·51	+15·28	4·10	Car Nicobar.
																Kashmir.
...	...	...	58	...	·503	...	1·9	....	53	47·0	+ 6·0	35·32	41·79	− 6·47	3·50	Jammu.
...	...	...	...	...	...	...	...	...	79	109·7	—30·7	50·59	77·84	—27·25	3·22	Sonamarg.
...	...	...	60†	...	·208†	...	3·1	...	15	25·5	—10·5	4·89	9·85	− 4·96	1·25	Kargil.
																Baluchistan.
...	...	...	...	...	...	...	...	...	21	23·6	− 2·6	12·39	12·04	+ 0·35	1·55	Harnai.
																Hill stations, exclusive of Kashmir.
...	...	...	75	+ 4	·618	+ ·018	...	...	136	114·5	+21·5	160·41	137·53	+12·88	6·78	Panighatta.
...	...	...	92	+12	·545	+ ·103	...	...	148	131·0	+17·0	173·90	153·72	+20·18	8·51	Kurseong.
...	...	...	...	...	...	...	...	...	187§	...	...	180·05§	...	...	5·10	Gnatong.
...	...	...	...	...	...	...	...	...	143§	...	...	65·11§	...	...	1·60	Lachung.
...	...	...	...	...	...	...	...	...	140†	...	...	172·84†	...	...	6·97	Ringim.
...	...	...	...	...	...	...	...	...	97	88·2	+ 8·8	85·06	93·84	− 8·78	5·14	Mussooree.
...	...	...	...	...	...	...	3·3	—0·7	25	34·1	− 9·1	7·89	14·50	− 6·61	0·95	Poo.
...	...	...	...	...	...	...	...	...	36	48·7	− 9·3†	14·22‡	23·08	− 6·97‡	1·10	Kailang.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Bakloh.
...	...	...	...	...	...	...	2·0‖	...	11	18·9	− 7·9	5·02	8·11	− 3·09	1·18	Pishin.

† Mean of 10 months.

§Total of 11 months.
‖Mean of 5 months.

TABLE

Abstract of observations taken at 8 hrs. at 62 fourth an

Number of sub-division.	Station.	Temperature of air.												Wind direction.								
														Number of winds from								
		Mean of 8 hrs. dry-bulb of year.	Mean maximum of year.	Departure from normal of year.	Mean minimum of year.	Departure from normal of year.	Yearly mean of mean between maximum and minimum.	Departure from normal of year.	Mean daily range of temperature.	Highest temperature observed during year.	Lowest temperature observed during year.	Absolute range during year.	Mean monthly absolute range.	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
	Extra India.																					
	Chumbi	45·3†	57·0†	...	45·3‡	...	51·9‡	...	13·4‡	78·0	15·0	63·0	20·8‡	...	...	...	...	...	...	...	...	...
	Kirmanshah* . . .	36·8	49·7	...	30·7	...	40·1	...	19·1	69·0	11·0	58·0	47·2	...	...	...	...	...	...	...	...	...
	Koweit*	...	59·4	...	55·4	...	57·4	...	4·0	75·4	43·0	32·4	22·6	6	2	2	23	0	0	2	55	0
	Muhammerah* . . .	...	71·7	...	53·7	...	62·7	...	18·0	84·2	42·8	41·4	35·4	0	0	1	0	23	0	4	0	52
	Pemba	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Prison Island . . .	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Seistan	...	84·3	..	57·2	...	70·7	...	27·0	116·0	24·0	92·0	48·6	71	31	9	6	0	9	1	16	222

* Mean f months.
† ,, 11 ,,
‡ ,, 9 ,,

C.—concld.

fifth class stations in India, etc., in the year 1915—concld.

Wind velocity.			Hygrometry, 8 hrs.				Cloud.		Rainfall.							
Mean velocity in miles per hour.	Normal.	Departure from normal.	Mean humidity at 8 hrs. of year.	Departure from normal of year.	Mean vapour tension at 8 hrs. in inches of mercury of year.	Departure from normal of year.	Mean cloud amount at 8 hrs. of year.	Departure from normal of year.	Number of rainy days during year.	Normal number of rainy days during year.	Departure from normal of year.	Total rainfall for the year.	Normal rainfall for the year.	Departure from normal of year.	Heaviest rainfall during the year.	Station.
24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
																Extra India.
...	...	...	82‡	...	·287‡	...	...	...	93	...	...	27·87	...	...	1·40	Chumbi.
...	...	...	81	...	·186	...	...	...	25	...	...	9·72	...	...	1·79	Kirmanshah.*
...	...	...	...	...	...	...	2·9	...	4	...	...	1·54	...	...	0·57	Koweit.*
...	...	...	...	...	...	...	...	...	3	...	...	2·10	...	...	1·22	Muhammerah.†
...	...	...	...	...	...	...	...	...	105	104·2	+0·8	67·91	83·58	—15·67	3·60	Pemba.
...	...	...	...	...	...	...	...	...	...	86·0	...	...	64·08	...	...	Prison Island.
9·7	...	...	...	...	...	...	...	...	2	...	...	1·32	...	...	0·75	Seistan.

* Mean of 3 months.
† " 10 "
‡ " 10 "

Addenda Sheet of 10 and 16 hrs. Observations in Table A of 1915, Monthly Weather Reviews.

Addenda Sheet of Observations taken at 10 hrs. an

Number of sub-division.	Station.	Height of bar-cistern above sea-level in feet.	Pressure.						Temperature of air.										Temperature, wet-bulb.			
			Mean of 10 hrs.	Mean of 16 hrs.	Mean daily range.	Mean of daily mean pressures.	Departure from normal.	Mean reduced to sea-level and to gravity at 45° lat.	Mean maximum.	Mean minimum.	Mean daily range.	Highest maximum.	Lowest minimum.	Absolute range.	Mean 10 hrs.	Mean 16 hrs.	Mean of daily means.	Departure from normal.	Mean minimum.	Mean 10 hrs.	Mean 16 hrs.	Mean of three previous columns.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	May 1915.																					
	Extra India.																					
	Katmandu . . .	4,388	25·611	25·535	·076	25·569	+·076	25·523	82·4	64·8	17·6	89·0	50·4	29·6	75·1	78·2	73·7	+2·9	62·2	67·4	69·1	66·[illegible]
	Mauritius	181	...	...	...	29·902	+·009	30·031	79·5	67·7	11·8	84·6	55·5	29·1	...	...	73·3	+1·3	...	...	...	68·8
	June 1915.																					
	Extra India.																					
	Mauritius	181	...	...	...	29·926	−·023	30·066	76·8	63·1	13·2	...	...	...	...	...	69·4	+0·6	...	...	...	64·8
	December 1915.																					
	Extra India.																					
	Mauritius	181	...	...	...	29·830	+·025	22·955	86·0	71·8	14·2	90·4	67·6	22·8	...	...	78·0	+0·4	...	...	...	71·7

16 hrs. in Table A of 1915, Monthly Weather Reviews.

Vapour tension in inches of mercury.					Humidity.					Cloud.				Wind Direction.										Wind steadiness.		Wind velocity.		Rainfall.			
														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.	Station.	Number of sub-division.
24	25	26	27	28	29	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
																															May 1915.	
																															Extra India.	
·530	·586	·611	·570	+·080	87	68	64	73	+ 5	6·2	6·8	6·5	+1·3	0	0	0	24	0	0	1	35	2	N 87°W	S 89°W	21	39	22	31	11·27	2·25	Katmandu .	
...	...	...	·632	+·026	...	...	...	77	0	...	...	5·6	+0·8	...	...	...	...	...	...	...	...	...	S 67°E	S 64°E	...	...	183	...	3·33	1·40	Mauritius .	
																															June 1915.	
																															Extra India.	
...	...	...	·546	+·010	...	...	...	76	0	...	...	5·4	+0·8	...	...	...	...	...	...	...	...	...	S 61°E	S 63°E	...	...	174	...	0·99	0·28	Mauritius .	
																															December 1915.	
																															Extra India.	
...	...	...	·666	−·017	...	...	...	70	− 2	...	...	6·1	+0·5	...	...	...	...	...	...	...	...	...	N 85°E	S 88°E	...	...	209	189	2·16	0·45	Mauritius .	

Addenda Sheet of 8 hrs. Observations in Table B of 1915, Monthly Weather Reviews.

Addenda Sheet of 8 hrs. Observations

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.	Total range of pressure during month.	Temperature of air. Mean of 8 hrs. temperature.	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.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	February 1915																						
	Tehran	4,002	(b) 25·815	—·055	...	26·100	15th	25·600	5th	·500	37·2	51·2	+0·3	33·2	+1·1	42·0	+0·7	18·0	69·5	28th	18·6	14th	50·9
	March 1915.																						
	Tehran	4,002	(b) 25·694	—·136	...	25·930	21st	25·440	31st	·490	49·1	64·1	+5·5	45·1	+6·5	54·6	+6·0	19·0	72·4	23rd	36·3	8th	36·1
	April 1915.																						
	Tehran	4,002	(b) 25·670	—·240	...	25·880	14th	25·450	1st	·430	52·8	66·3	—5·1	48·2	+0·1	57·3	—2·5	18·1	78·2	16th	39·8	9th	38·4
	May 1915.																						
	Minicoy	7	29·908	+·008	...	29·974	20th	29·831	9th	·143	...	...	...	...	...	...	...	...	...	...	...	...	...
	Amini Divi	13	29·874	—·012	29·815	29·952	20th	29·797	11th	·155	86·7	93·9	+3·1	82·6	+2·1	88·3	+2·6	11·3	97·4	13th	75·8	16th	21·6
	Busrah	25	(e) 29·790	—·062	(e) 29·784	30·027	2nd	29·580	17th	·447	(f) 79·6	(d) 96·6	+2·7	(d) 75·6	+1·3	(d) 86·1	+2·0	21·0	114·1	30th	67·1	2nd, 3rd & 10th.	47·0
	Tehran	4,002	(b) 25·676	—·204	...	25·780	13th & 14th	25·550	10th & 19th.	·230	70·7	83·3	+0·5	60·5	+3·1	71·9	+1·8	22·8	93·8	19th	40·0	11th	44·8
	June 1915.																						
	Amini Divi	13	29·825	—·018	29·766	29·939	30th	29·721	12th	·218	84·1	95·5	+2·9	79·2	+1·6	82·8	+2·1	10·2	96·4	3rd & 11th.	74·9	23rd	21·5
	Tehran (e)	4,002	(b) 25·605	—·135	...	25·770	12th	25·440	27th	·330	77·1	91·9	—2·4	68·1	+1·8	80·0	—0·3	23·8	95·3	4th	61·0	13th	34·3
	Augus 1915.																						
	Minicoy	7	29·927	+·007	...	29·978	31st	29·882	1st	·096	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tehran (f)	4,002	(b) 25·563	—·192	...	25·740	26th	25·450	4th & 11th.	·290	79·5	95·3	—2·0	73·8	+3·2	84·6	+0·6	21·5	103·3	8th	69·0	12th & 22nd.	34·3
	September 1915.																						
	Tehran (h)	4,002	(b) 25·720	—·158	...	25·840	6th	25·600	1st	·240	72·5	88·1	—2·7	65·8	+2·2	77·0	—0·3	22·3	95·7	1st	53·0	29th	42·7
	October 1915.																						
	Tehran (g)	4,002	(b) 25·851	—·184	...	26·050	30th	25·660	15th	·390	60·3	75·4	—1·2	53·1	+1·1	64·3	—0·1	22·3	82·4	14th	44·0	19th	38·4
	November 1915.																						
	Minicoy	...	29·950	—·009	...	29·997	30th	29·882	1st	·115	...	...	...	...	...	...	...	...	...	...	...	...	...
	Tehran	4,002	(b) 25·812	—·318	...	25·970	20th	25·680	8th	·290	47·8	67·3	+4·5	45·7	+3·	56·5	+3·8	21·6	76·0	1st	38·0	24th	38·0
	Ispahan (p)	5,817	(b) 24·301	...	...	24·420	1st	24·230	7th	·190	41·5	70·8	...	38·2	...	54·5	...	32·6	77·4	1st	34·7	18th	42·7
	December 1915.																						
	Tehran	4,002	(b) 25·851	—·279	...	26·050	17th	25·680	38th	·370	35·9	4·9	+3·6	34·1	+0·6	44·5	+2·1	20·8	65·5	2nd	28·0	4	37·5

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

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

(b) Aneroid.

(d) Mean of 30 days.
(e) " " 29 "
(f) " " 27 "
(h) " " 26 "

(g) Mean of 28 days.
(p) " " 18 "
(i) " " 24 "

in Table B of 1915, Monthly Weather Reviews.

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.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall of period.	Normal rainfall of period.	Departure from normal.	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	56	57
																																February 1915.
7	2	14	1	1	1	0	2	0	N 45° E	N 22° E	2·3	2·6	−0·3	50	+20	67	− 8	·148	+ ·002	3·7	+0·7	3	3·0	0	0·78	1·04	−0·26	3·63	4·01	−0·38	0·22	Tehran.
																																March 1915.
12	1	14	0	1	0	1	2	0	N 42° E	N 14° E	3·5	2·8	+0·7	39	+17	63	− 7	·220	+ ·031	5·7	+1·7	9	5·6	+3·4	2·68	1·93	+0·75	6·31	5·94	+0·37	0·53	Tehran.
																																April 1915.
17	1	8	0	1	1	2	0	0	N 59° E	S 63° W	2·9	3·2	−0·3	20	+ 5	73	+16	·289	+ ·020	5·7	+2·6	6	3·0	+3·0	2·86	1·13	+1·73	9·17	7·07	+2·10	0·72	Tehran.
																																May 1915.
7	2	0	0	6	0	0	7	15	N 54° W	N 69° W	5·4	7·4	−2·0	71	− 5	...	...	...	...	5·1	−0·1	9	8·9	+0·1	5·64	5·68	+0·04	5·64	5·68	−0·04	3·00	Minicoy.
0	2	0	0	0	0	3	11	15	N 65° W	—	9·0	...	...	84	—	74	...	·935	+·004	5·0	−0·8	3	4·3	−1·3	3·24	3·14	+0·10	3·24	3·14	+0·10	2·76	Amini Divi.
0	10	2	0	4	2	2	6	4	N 37° W	—	5·3	—	...	33	—	(h) 70	...	(h) ·695	...	0	...	0	1·2	−1·2	0	0·46	−0·46	0	0·46	−0·46	0	Busrah.
12	1	3	5	2	0	7	1	0	S 45° E	S 46° W	3·4	2·6	+0·8	13	− 3	42	− 5	·312	−·024	1·2	−1·3	1	1·9	−0·9	0·22	0·45	−0·23	0·22	0·45	−0·23	0·13	Tehran.
																																June 1915.
1	5	1	0	0	0	8	8	7	N 74° W	—	12·2	—	...	60	—	81	−2	·940	+ ·008	7·7	−0·2	19	15·7	+3·3	15·60	13·67	+1·93	16·84	16·81	+2·03	5·30	Amini Divi.
10	0	2	1	1	7	8	0	0	S 14° W	S 7° W	2·1	2·2	−0·1	41	+24	49	+ 7	·453	+ ·050	1·4	+0·6	0	0·3	−0·3	0·11	0·08	+0·03	0·33	0·53	−0·20	0·06	Tehran.
																																August 1915.
0	4	0	0	0	0	0	19	8	N 68° W	N 79° W	6·6	10·9	−4·3	87	− 3	...	...	...	...	4·5	−1·1	8	10·8	−2·8	2·90	7·46	−4·47	34·02	31·66	+2·36	0·98	Minicoy.
19	0	2	2	1	2	1	0	0	S 56° E	S 14° W	3·3	1·6	+1·7	11	0	60	+19	·594	+·165	1·0	+0·1	0	0·2	−0·2	0	0·05	−0·05	0·33*	0·80	−0·47	0	Tehran.
																																September 1915.
14	1	2	1	1	0	6	1	0	S 34° W	N 62° E	(j) 3·1	2·0	+1·1	15	+ 3	52	+ 9	·410	+ ·031	0·5	−0·1	0	0·3	−0·3	0	0·08	−0·08	0·33*	0·88	−0·55	0	Tehran.
																																October 1915.
2	1	20	1	2	0	2	0	0	N 51° E	N 18° E	3·0	2·1	+0·9	63	+45	47	− 2	·244	−·015	0·9	−0·9	0	1·0	−1·0	0	0·30	−0·30	0·33*	1·18	−0·85	0	Tehran.
																																November 1915.
0	2	1	2	2	2	1	14	6	N 79° W	N 7° W	4·3	4·5	−0·2	50	+16	...	...	...	...	4·4	+0·3	7	6·8	+0·2	6·13	5·27	+0·86	54·87	52·01	+2·86	2·26	Minicoy.
2	3	25	0	0	0	0	0	0	N 41° E	N 11° E	2·8	1·6	+1·2	90	+62	51	−13	·170	−·034	2·3	−1·3	1	3·2	−2·2	0·30	1·05	−0·75	0·63*	2·23	−1·60	0·29	Tehran.
18	0	0	0	0	0	0	0	0	Calm	N 62° W	0·5	(a)	...	(a)	...	66	?	·176	?	1·3	?	0	1·6	−1·6	0	?	?	?	?	?	0	Ispahan.
																																December 1915.
7	10	11	0	0	0	2	0	1	N 19° E	N 11° E	2·6	2·0	+0·6	58	+24	66	−12	·141	−·022	1·7	−1·8	1	3·9	−2·8	0·21	1·28	−1·07	0·21	1·28	1·07	0·12	Tehran.

(j) Mean of 24 days. * Rainfall for July wanting. (a) Indeterminate.

Addenda Sheet of 8 hrs. Observations in Table C of 1915, Monthly Weather Reviews.

Addenda Sheet of 8 hrs. Observations in

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.	Absolute range during month.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	February 1915.														
	Ringum	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	April 1915.														
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	May 1915.														
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	June 1915.														
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	July 1915.														
	Pishin	...	...	97·9	−0·3	65·4	+2·1	81·6	+0·9	32·5	103·4	31st	54·1	7th	49·3
	September 1915.														
	Lumding	79·1	76·7	89·5	...	73·9	...	81·7	...	15·6	93·1	16th	65·4	26th	29·7
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	October 1915.														
	Car-Nicobar	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	December 1915.														
	Pabna	61·6	58·4	80·7	−0·2	56·1	+3·0	68·4	+1·4	24·6	86·0	3rd	51·4	9th	34·6
	Dam Dim	49·9	48·9	69·3	+4·7	48·0	+4·6	68·7	+4·7	41·3	91·4	3rd	43·8	10th	47·6

Table C of 1915, Monthly Weather Reviews.

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.	Normal number of rainy days.	Departure from normal.	Rainfall of month.	Normal rainfall of month.	Departure from normal.	Total rainfall period.	Normal rainfall of period.	Departure from normal.	Heaviest rainfall during month.	Station.
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
																																February 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	...	...	4·80	...	...	5·19	...	...	1·38	Ringim.
																																April 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	5·6	−2·6	2·51	3·38	−0·87	30·40	16·95	+13·45	2·00	Car-Nicobar.
																																May 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	16·5	−6·5	10·94	13·72	−2·78	10·94	13·72	−2·78	2·60	Car-Nicobar.
																																June 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	16·3	−8·3	11·94	12·20	−0·26	22·88	25·92	−3·04	2·32	Car-Nicobar.
																																July 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0	0·2	−0·2	0	0·07	−0·07	0	0·30	−0·30	0	Pishin.
																																September 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	9·5	−0·5	3·13	6·84	−3·71	45·83	34·91	+10·92	0·80	Lumding.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7	17·3	−10·3	11·06	13·69	−2·63	51·82	58·57	−6·75	2·38	Car-Nicobar.
																																October 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	14	15·7	−1·7	19·79	11·16	+8·63	71·61	69·73	+1·88	2·93	Car-Nicobar.
																																December 1915.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	82	+2	·452	+·018	...	...	0	0·8	−0·8	0	0·19	−0·19	0	0·19	−0·19	0	Pabna.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	93	−2	·334	−·025	...	...	0	0·5	−0·5	0·02	0·19	−0·17	0·02	0·19	−0·17	0·02	Dam Dim.

Corrigenda in the India Monthly Weather Reviews for the year 1915.

TEXT.

Page.	Column.	Part.	Correction.
6	2	January, 1915. .	*For* " +·058," *read* " +·062," against Assam in the figure column 2 in table 9.
6	2	Ditto . .	*For* " +·056," *read* " +·055 " against Rajputana in the figure column 2 in table 9.
7	...	Ditto . .	*For* " +1·3, +1·2 and +0·1," *read* " +1·4, +0·5 and +0·9," respectively, against United Provinces East, in the figure columns 6, 7 and 8 in table 11.
8	...	Ditto . .	*For* " —0·3 and 0," *read* " +0·7 and —1·0," respectively, against United Provinces West, in the figure columns 7 and 8 in table 11.
8	...	Ditto . .	*For* " 63·3, 34·4, 48·8, 29·0, 46·7, +2·9, —0·6 and +3·5," *read* " 64·3, 34·2, 49·2, 30·1, 46·9, +2·2, —1·2 and +3·4," respectively, against Baluchustan in the figure columns 1 to 8 in table 11.
8	...	Ditto . .	*For* " —0·2, —1·4 and +1·2," *read* " —0·9, +0·8 and —1·7," respectively, against Rajputana West, in the figure columns 6 to 8 in table 11.
8	...	Ditto . .	*For* " —1·4, +0·5 and —1·9" *read* " —0·7, +1·0 and —1·7," respectively, against Rajputana East, in the figure columns 6 to 8 in table 11.
8	...	Ditto . .	*For* " +1·0, +2·9 and —1·9," *read* " +0·9, +2·1 and —1·2," respectively, against Mysore in the figure columns 6 to 8 in table 11.
8	1	Ditto . .	*For* " +0·5 and +0·5," *read* " +0·6 and +0·6," respectively, against United Provinces in the figure columns 2 and 3 in table 12.
8	2	Ditto . .	*For* " —0·9, —0·2 and —0·6," *read* " —0·7, +0·9 and +0·1," respectively, against Rajputana in the figure columns 1 to 3 in table 12.
8	2	Ditto . .	*For* " +1·0, +2·9, and +1·9," *read* " +0·9, +2·1 and +1·5," respectively, against Mysore in the figure columns 1 to 3 in table 12.
10	2	Ditto . .	*For* " +1·0," *read* " +0·8 " against Bombay in the figure column 6 in table 14.
10	2	Ditto . .	*For* " +2·8," *read* " +2·3 " against Hyderabad in the figure column 6 in table 14.
10	2	Ditto . .	*For* " +1·7," *read* " +1·8 " against Madras in the figure column 6 in table 14.
12	2	Ditto . .	*For* " 0·79, +0·65 and + 464," *read* " 0·80, +0·66 and +471," respectively, against Hyderabad in the figure columns 1, 3 and 4 in table 16.
42	1	April, 1915 . .	*For* " +·043," *read* " +·047 " against Rajputana in the figure column 1 in table 7.
42	1	Ditto . .	*For* " +·050 " *read* " +·052 " against Central Provinces in the figure column 1 in table 7.
43	...	Ditto . .	*For* " +0·4, +1·0 and —0·6," *read* " —0·4, +0·7 and —1·1," respectively against Assam in the figure columns 6, 7, and 8 in table 9.
43	...	Ditto . .	*For* " —2·6, 0, and —2·6," *read* " —2·7, +0·6 and —3·3," respectively, against United Provinces West, in the figure columns 6, 7 and 8 in table 9.
43	...	Ditto . .	*For* " —0·2, +0·6 and —0·8," *read* " +0·2, +0·5 and —0·3," respectively, against Madras, South-east, in the figure columns 6, 7 and 8 in table 9.
44	1	Ditto . .	*For* " +0·4, +1·0 and +0·7," *read* " —0·4, +0·7 and +0·2," respectively, against Assam in the figure columns 1, 2 and 3 in table 10.
44	1	Ditto . .	*For* " —2·5, +0·5 and —1·0," *read* " —2·6, +0·8 and —0·9," respectively, against United Provinces in the figure columns 1, 2 and 3 in table 10.
44	2	Ditto . .	*For* " —0·1 and +0·4," *read* " +0·1 and +0·3," respectively, against Madras in figure columns 1 and 2 in table 10.
45	1	Ditto . .	*For* " 0 and +·001," *read* " —1 and —·013," respectively, against Bengal in the figure columns 2 and 4 in table 12.
45	2	Ditto . .	*For* " —·025," *read* " —021," against Bombay in the figure column 4 in table 12.
45	2	Ditto . .	*For* " +4 and +·011," *read* " —1 and —·041," respectively, against Central India in the figure columns 2 and 4 in table 12.
45	2	Ditto . .	*For* " 0 and +·008," *read* " +1 and +·013," respectively, against Madras in the figure columns 2 and 4 in table 12.

Corrigenda in the India Monthly Weather Reviews for the year 1915.

Tables A, B & C.

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
vi	January 1915	B	Yamethin	Pressure	4 to 7 and 9	*For* "29·435, +·071, 30·072, 29·550 and 29·340" *read* "29·424, +·060, 30·061, 29·539 and 29·329," respectively.
viii	Ditto	"	Cuttack	Temperature	13, 14, 17 to 20 and 24.	*For* "80·1, —3·7, 70·0, —2·0, 20·2, 85·6 and 32·4" *read* "82·7, —1·1, 71·3, —0·7, 22·8, 88 2 and 35·0", respectively.
"	Ditto	"	Angul	Ditto	18	*For* "—0·8" *read* "—0·3."
ix	Ditto	"	Saugor Island	Wind velocity	37 and 38	*For* "5·3 and —0·7" *read* "4·4 and +0·2," respectively.
"	Ditto	"	Daltonganj	Hygrometry 8 hrs.	41	*For* "88" *read* "85."
x	Ditto	"	Patiala	Pressure	7	*For* "28·384" *read* "29·384."
"	Ditto	"	Lahore	Temperature	12 to 20, 22 and 24.	*For* "44·0, 69·4, +1·0, 41·6, +0·5, 55·5, +0·7, 27·8, 74·6, 37·0 and 37·6," *read* "43·7, 68·6, +0·4, 41·2, +0·1, 55·0, +0·3, 27·4, 74·0, 36·6, and 37·4," respectively.
xi	Ditto	"	Hissar	Wind velocity	37 and 38	*Insert* "2·5 and +0·5," respectively.
xii	Ditto	"	Buldana	Pressure	6	*For* "30·043 ?" *read* "30·048 ?"
"	Ditto	"	Chanda	Ditto	4 to 7 and 9	*For* "29·459, +·042, 30·065, 29·558, and 29·338," *read* "29·469, +·052, 30·075, 29·568 and 29·348" respectively.
xvi	Ditto	"	Panjgur	Ditto	6	*For* "28·865" *read* "26·865."
xvii	Ditto	"	Gangtok	Wind direction	32	*Insert* "1."
xix	Ditto	"	Ispahan	Cloud	45	*For* "27" *read* "2·7."
xxii	Ditto	C	Bishnath	Temperature	13	*For* "40·1" *read* "41·0."
"	Ditto	"	Borjuli	Ditto	9	*For* "+2·4" *read* "+2·3."
xxv	Ditto	"	Kargil	Rainfall	47	*For* "2·22" *read* "0·22."
xxvi	Ditto	"	Kirmanshah	Temperature	15	*For* "5" *read* "47·5."
"	Ditto	"	Muhammerah	Wind direction	25	*For* "N45W" *read* "N45W†."
"	Ditto	"	Seistan	Ditto	23	*For* "0" *read* "6."
xxx	February 1915	A	Lahore	Pressure	4	*For* "29·327" *read* "29·329."
xxxi	Ditto	"	Katmandu	Vapour tension	24	*For* "·223" *read* "·226"
xxxiv	Ditto	B	Yamethin	Pressure	4, 5, 6, 7 and 9	*For* "29·330, +·016, 29·957, 29·386, and 29·260" *read* "29·319, +·005, 29·946, 29·375, and 29·249," respectively.
xxxvi	Ditto	"	Cuttack	Temperature	13, 14, 17 to 20 and 24.	*For* "86·6, —2·6, 75·7, —1·7, 21·8, 93·5 and 33·9" *read* "87·6, —1·6, 76·2, —1·1, 22·8, 94·5 and 34·9" respectively.
xxxvii	Ditto	"	Saugor Island	Wind velocity	37 and 38	*For* "6·4 and —0·6," *read* "5·3 and +0·5," respectively.
xxxviii	Ditto	"	Lahore	Temperature	12 to 20, 23 and 24.	*For* "50·0, 69·5, —2·6, 45·7, +1·2, 57·6, —0·7, 23·8, 78·8, 38·8, and +40·0" *read* "49·3, 68·9, —3·2, 45·3, +0·8, 57·1, —1·2, 23·6, 78·2, 38·4, and 39·8," respectively.
xxxix	Ditto	"	Hissar	Wind velocity	37 and 38	*Insert* "3·0 and +1·5," respectively.
xlii	Ditto	"	Chanda	Pressure	4 to 7 and 9	*For* "29·370, 0, 29·971, 29·457, and 29·272" *read* "29·380 + 0·10, 29·981, 29·467, and 29·282," respectively.
"	Ditto	"	Aurangabad	Ditto	6	*For* 299·74" *read* "29·974."
xlvii	Ditto	"	Meshed	Cloud	45	*For* "39" *read* "3·9."
l	Ditto	C	Golaghat	Temperature	4, 5, 8 and 10	*For* "75·3, +1·3, 64·7 and 21·1," *read* "74·9, +0·9, 64·5 and 20·7," respectively.

Corrigenda in the India Monthly Weather Reviews for the year 1915.

TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
liii	February 1915	C	Chhindwara	Hygrometry	32 and 34	*Insert* "69 and ·354," respectively.
"	Ditto	"	Pishin	Rainfall	40	*For* " +1·8" *read* "—1·8."
lxii	March	B	Myitkyina	Temperature	15, 16, 17 and 19	*For* "60·4‡, —0·5‡, 71·7‡ and 22·4," *read* "60·3, —0·6, 71·5 and 22·5," respectively.
lxiii	Ditto	"	Saugor Island	Wind velocity	37 and 38	*For* "9·6 and —2·7" *read* "6·2 and +0·7," respectively.
"	Ditto	"	Calcutta	Rainfall	47, 49, 50, 52, 53 and 55.	*For* "8, +5·8, 4·09, +2·84, 6·09 and +3·07," *read* "9, +6·8, 4·19, +2·94, 6·19 and +3·17," respectively.
lxiv	Ditto	"	Cuttack	Temperature	13, 14, 17 to 20 and 24.	*For* "93·7, —3·1 ?, 82·7,—1·9?, 21·9, 100·5 and 33·3," *read* "94·7, —2·1?, 83·3,—1·4?, 22·9, 101·5 and 34·3," respectively.
lxv	Ditto	"	Hissar	Wind velocity	37 and 38	*Insert* "3·4 and +0·5," respectively.
lxvi	Ditto	"	Lahore	Temperature	12 to 20, 22 and 24.	*For* "64·6, 83·9, 0, 57·6, +3·1, 70·8, +1·5, 26·3, 93·7, 46·0, and 47·7," *read* "64·3, 83·3, —0·6, 57·2, +2·7, 70·3, +1·1, 26·1, 93·1, 45·6 and 47·5," respectively.
lxvii	Ditto	"	Raichur	Ditto	13	*For* "86·1" *read* "96·1."
lxx	Ditto	"	Calicut	Pressure	4 and 5	*For* "29·978 and +·048," *read* "29·981 and +·051," respectively.
"	Ditto	"	Pamban	Temperature	15 to 19, 22 and 24.	*For* "78·5, +2·5, 81·5, —1·3 ?, 6·0, 75·2 and 12·7," *read* "79·2, +3·2, 81·9, —0·9?, 5·3, 75·9, and 12·0," respectively.
"	Ditto	"	Madura	Ditto	15 to 19, 22 and 24.	*For* "77·1, +4·2 ?, 86·8, +2·1?, 19·5, 74·0, and 28·4," *read* "76·3, +3·4?, 86·5, +1·7?, 20·3, 73·2 and 29·2," respectively.
lxxi	Ditto	"	Nellore	Rainfall	50, 52, 53, 55 and 56.	*For* "1·61, +1·50, 14·02, +9·25, and 0·82" *read* "1·65, +1·54, 14·06, +9·29 and 0·86," respectively.
lxxii	Ditto	"	Minicoy	Pressure	5	*Insert* "+·066."
"	Ditto	"	Gangtok	Ditto	7	*For* "24·599" *read* "24·590."
lxxiii	Ditto	"	Minicoy	Wind velocity	37 and 38	*Insert* "3·9 and —0·9."
"	Ditto	"	Amini Divi	Ditto	37 and 38	Omit the figures printed.
lxxiv	Ditto	"	Kashgar	Pressure	5	*Insert* "+·017."
"	Ditto	"	Busrah	Ditto	6	*For* "26·953" *read* "29·953."
"	Ditto	"	Ispahan	Temperature	13	*For* "60·6" *read* "63·6."
lxxv	Ditto	"	Kashgar	Hygrometry	42 and 44	*Insert* "—4 and —·003," respectively.
"	Ditto	"	Ditto	Cloud	46	*Insert* "+1·0."
"	Ditto	"	Meshed	Rainfall	52	*For* "+1·46" *read* "+1·36."
lxxv	March 1915	B	Ispahan	Hygrometry	43	*For* "20·1" *read* "·201."
"	Ditto	"	Aden	Rainfall	54 and 55	*For* "1·64 and —1·64," *read* "1·36, and —1·36," respectively.
lxxviii	Ditto	C	Borjuli	Temperature	6—10	*For* "58·7, +1·7, 70·6, +0·5 and 23·8," *read* "58·6, +1·6, 70·5, +0·4 and 23·9," respectively.
"	Ditto	"	Goalundo	Ditto	4, 5, 8, 9 and 10	*For* "89·8*, +0·1, 75·9*d*, +0·5 and 27·7," *read* "89·2 —0·5, 75·7, +0·3 and +27·1," respectively.
lxxix	Ditto	"	Borjuli	Hygrometry	32 to 35	*For* "90, +12, ·602* and +115," *read* "89, +11, ·599, and +112," respectively.
lxxxii	Ditto	"	Kirmanshah	Temperature	5	*Omit* the figure printed.

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
lxxxii	March, 1915	C	Footnote	...	...	*For* " mean of 26 days " *read* " mean of 6 days."
xc	April, 1915	B	Myitkyina	Temperature	15 and 19, 22 and 24.	*For* " 67·5, +0·3, 78·1, +0·1, 21·2, 58·0 and 40·0 " *read* " 67·1, −0·1, 77·9, −0·1, 21·6, 58·4 and 40·4," respectively.
"	Ditto	"	Dhubri	Ditto	13	*For* " 85·7 " *read* " 86·7."
xcii	Ditto	"	Cuttack	Ditto	13, 14, 17—20 and 24.	*For* " 100·9, −0·7, 89·2, −0·5, 23·3, 105·5 and 34·5 " *read* " 101·9, +0·3, 89·7, +0·1, 24·3, 106·5 and 35·5," respectively.
xciii	Ditto	"	Saugor Island	Wind velocity	37 and 38	*For* " 13·1 and −3·8 " *read* " 8·5 and +0·8," respectively.
"	Ditto	"	Calcutta	Rainfall	53 and 55	*For* " 7·66 and +2·89 " *read* " 7·76 and +2·99," respectively.
xciv	Ditto	"	Lahore	Temperature	12—20, 22 and 24.	*For* " 76·7, 95·6, −0·9, 67·3, +2·8, 81·5, +0·9, 28·3, 107·9, 54·9 and 53·0 " *read* " 76·4, 95·0, −1·5, 66·9, +2·4, 81·0, +0·5, 28·1, 107·3, 54·5 and 52·8," respectively.
xcvii	Ditto	"	Hassan	Rainfall	50	*For* " 2·66 " *read* " 2·06."
xcviii	Ditto	"	Pamban	Temperature	15 — 19, 22 and 24.	*For* " 80·9, +1·8, 84·1, −1·1 ?, 6·5, 77·8 and 10·9 " *read* " 81·6, +2·5, 84·5, −0·8, 5·8, 78·5 and 10·2," respcetively.
"	Ditto	"	Madura	Ditto	15 — 19, 22 and 24.	*For* " 78·2, +1·5, 88·8, +0·9, 21·2, 72·7 and 29·4 " *read* " 77·4, +0·7, 88·4, +0·5, 22·0, 71·9 and 30·2," respectively.
xcix	Ditto	"	Nellore	Rainfall	53 and 55	*For* " 14·06 and +8·88 " *read* " 14·10 and 8·92," respectively.
c	Ditto	"	Pharijong	Temperature	13, 17, 19—21 and 24.	*For* " 58·2, 36·4, 43·5, 61·1, 29th and 30th and 59·1 " *read* " ?, ?, ?, ?, ?, ?, ?."
cii	Ditto	"	Ispahan	Pessure	4	*For* " 23·267 " *read* " 24·267."
ciii	Ditto	"	Aden	Raiufall	51 and 52	*For* " 0·27 and −0·27 " *read* " 0·20 and—0·20," respectively.
cvi	Ditto	C	Chandkhira	Temperature	11	*For* " 10·1 " *read* " 102·1."
"	Ditto	"	Hailakandi	Ditto	13	*For* " 6·3 " *read* " 61·3."
"	Ditto	"	Nagrakata	Rainfall	47	*For* " 3·85 " *read* " 3·35."
cviii	Ditto	"	Panighatta	Temperature	3, 4, 5, 8, 9 and 10.	*For* " 74·1*, 86·7*, −0·9, 77·1*, −0·1 and 19·1 " *read* " 74·0, 86·4, −1·2, 77·0, −0·2 and 18·8," respectively.
"	March	"	Footnote	...	...	*Omit* *mean of 29 days.
cix	Ditto	"	Panighatta	Hygrometry	32, 34 and 35	*For* " 69‡, ·573‡ and +·027 " *read* " 69, ·572 and +·026," respectively.
"	Ditto	"	Footnote	...	...	*Omit* ‡mean of 29 days.
cxxi	May, 1915	B	Saugor Island	Wind velocity	37 and 38	*Insert* " 7·9 and +4·4," respectively.
"	Ditto	"	Allahabad	Hygrometry	41, 42, 43 and 44	*For* " 40, −2, ·590 and +·017 " *read* " 39, −3, ·586 and +·013," respectively.
cxxii	Ditto	"	Lahore	Temperature	12—20, 22 and 24	*For* " 92·1, 111·5, +6·1, 80·7, +7·3, 96·1, +6·7, 30·8, 115·8, 74·4 and 41·4" *read* " 91·8, 110·9, +5·5, 80·3 +6·9, 95·6, +6·3, 30·6, 115·2, 74·0 and 41·2," respectively.
cxxviii	Ditto	"	Pasni	Pressure	4, 6, 7 and 9	*For* " 29·682, 29·642, 29·915 and 29·565 " *read* " 29·680, 29·640, 29·913 and 29·563," respectively.
"	Ditto	"	Do.	Temperature	15, 17, 19, 22 and 24.	*For* " 75·2, 83·5‡, 16·4, 70·0 and 39·8 " *read* " 76·0, 83·8‡, 15·6, 70·8 and 39·0," respectively.

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
cxxix	May, 1915	B	Port Blair	Hygrometry	42	*For* " — " *read* " —4."
cxxx	Ditto	"	Pharijong	Temperature	13, 17, 19—21 and 24.	*For* "80·5, 52·7, 55·7, 101·9, 24th and 86·9" *read* ? ? ? ? ? ?, respectively.
"	Ditto	"	Kashgar	Pressure	5	*Insert* " —·033."
"	Ditto	"	Ispahan	Ditto	5	*Insert* " —·096."
cxxxi	Ditto	"	Meshed	Hygrometry	44	*For* " —0·33" *read* " —·033."
"	Ditto	"	Kerman	Wind velocity	36	*For* "1·8" *read* "1·2."
cxxxiv	Ditto	C	Lumding	Temperature	3, 4, 6, 8 and 10	*For* 76·1†, 86·5†, 72·0†, 79·2† and 14·5" *read* "76·0, 86·6, 72·0, 79·3 and 14·6," respectively.
"	Ditto	"	Footnote	...	...	*Omit* "†mean of 30 days."
cxxxv	Ditto	"	Lumding	Hygrometry	32 and 34	*For* "91† and ·816†" *read* "91 and ·809," respectively.
"	Ditto	"	Footnote	...	...	*Omit* "†mean of 30 days."
"	Ditto	"	Muzzaffarpur	Rainfall	42	*For* "2·64" *read* "2·54."
cxxxvii	Ditto	"	Chhindwara	Wind velocity	27	*For* "4·6" *read* "3·2."
"	Ditto	"	Mussoorie	Rainfall	39 and 40	*For* "5·4 and —1·4" *read* "4·3 and —0·3," respectively.
cxxxviii	Ditto	"	Chumbi	Temperature	3 and 6	*For* "52·6 and 50·2" *read* "52·7 and 50·1," respectively.
"	Ditto	"	Seistan	Ditto	11	*Insert* "105·0."
cxxxix	Ditto	"	Chumbi	Hygrometry	32 and 34	*For* "83 and ·331" *read* "82 and ·329," respectively.
cxliii	June, 1915	A	Dodabetta	Vapour tension	25	*For* "·338" *read* "·388."
cxlvi	Ditto	B	Mergui	Temperature	15—19, 22 and 24	*For* "73·8*, +0·2*, 80·2*, +0·8*, 12·8, 71·7 and 20·0" *read* "73·6*, 0, 80·1*, +0·7*, 13·0, 71·5 and 20·2," respectively.
"	Ditto	"	Kyaukpyu	Pressure	4, 6, 9 and 11	*For* "29·734, 29·692, 29·586 and ·278" *read* "29·739, 29·697, 29·613 and ·251," respectively.
cxlvii	Ditto	"	Saugor Island	Wind velocity	37 and 38	*Insert* "7·5 and +3·6," respectively.
cxlviii	Ditto	"	Pusa	Temperature	19	*For* "18·7" *read* "18·9."
"	Ditto	"	Patna	Pressure	4—7 and 9	*For* "29·416, +·019, 29·553, 29·557 and 29·252" *read* 29·428, +·031, 29·565, 29·569 and 29·264," respectively.
cl	Ditto	"	Lahore	Temperature	12—20, 22 and 24	*For* "90·8, 108·1, +0·7, 81·8, +1·7, 95·0, +1·2, 26·3, 117·4, 73·2 and 44·2" *read* "90·5, 107·5, +0·1, 81·4, +1·3, 94·5, +0·8, 26·1, 116·8, 72·8 and 44·0," respectively.
clvi	Ditto	"	Fasni	Pressure	4, 6, 7 and 9	*For* "29·608, 29·568, 29·771 and 29·496" *read* "29·606, 29·566, 29·769 and 29·494," respectively.
"	Ditto	"	Do.	Temperature	15, 17, 22 and 24	*For* "79·0, 86·3, 72·2 and 27·7" *read* "79·8, 86·7, 73·0 and 26·9," respectively.
clvii	Ditto	"	Kalabagh	Wind direction	34	*For* "N 14° W" *read* "N 13° W."
"	Ditto	"	Do.	Wind steadiness	39	*For* "59" *read* "60."
clviii	Ditto	"	Kabul	Pressure	5	*Insert* " —·123."
clix	Ditto	"	Busrah	Hygrometry	43	*For* "·823‡" *read* "·824‡
clxii	Ditto	C	Doom Dooma	Temperature	10	*For* "15·3" *read* "15·4."

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TABLES A, B & C—*contd.*

Page.	Part.	Table.	Meteorological Province or Station.	Heading.	Column No.	Correction.
clxxiv	July 1915	B	Kyaukpyu	Pressure	4, 6, 9 and 11	*For* "29·68, 29·647 ?, 29·515, and ·340" *read* "29·704, 29·665, 29·533 and ·322," respectively.
clxxvi	Ditto	"	Patna	Ditto	4 to 7 and 9	*For* "29·365, —·014, 29·502, 29·587 and 29·187," *read* "29·377, —·002, 29·514, 29·599 and 29·199," respectively.
clxxvii	Ditto	"	Saugor Island	Wind velocity	37 and 38	*Insert* "7·2 and +4·1," respectively.
clxxviii	Ditto	"	Lahore	Temperature	12 to 20, 22 and 24.	*For* "90·9, 107·1, +6·6, 85·1, +4·9, 96·1, +5·7, 22·0, 113·7, 74·8 and 38·9," *read* "90·6, 106·5, +6·0, 84·7, +4·5, 95·6, +5·3, 21·8, 113·1, 74·4 and 38·7," respectively.
clxxix	Ditto	"	Ludhiana	Station	57	*For* "Ludhian" *read* "Ludhiana".
"	Ditto	"	Jacobabad	Wind direction	30	*Insert* "7."
clxxxii	Ditto	"	Madras	Pressure	6	*For* "29·720" *read* "29·717."
"	Ditto	"	Masulipatam	Ditto	4, 5 and 7 to 11	*For* "29·726, +·021, 29·894, 21st, 29·606, 31st and ·288," *read* "29·717, +·012, 29·833, 11th, 29·594, 21st and ·239," respectively.
clxxxiv	Ditto	"	Pasni	Pressure	4, 6, 7 and 9	*For* "29·596, 29·556, 29·722 and 29·410," *read* "29·594, 29·554, 29·720 and 29·408," respectively.
"	Ditto	"	Do.	Temperature	15, 17, 22 and 24	*For* "78·3, 85·5, 75·2 and 23·1," *read* "79·1, 85·9, 76·0 and 22·3," respectively.
clxxxv	Ditto	"	Gangtok	Wind velocity	36	*For* "16·0" *read* "0·7."
cxc	Ditto	C	Lumding	Temperature	8	*For* "83·1" *read* "83·1†."
"	Ditto	"	Dam Dim	Ditto	7	*For* "+0·4" *read* "—0·4."
cciv	August 1915	B	Patna	Pressure	4 to 7 and 9	*For* "29·393, —·047, 29·529, 29·527 and 29·250," *read* "29·305, —·035, 29·541, 29·539 and 29·262," respectively.
ccv	Ditto	"	Saugor Island	Wind velocity	37 and 38	*Insert* "6·3 and +4·0," respectively.
ccvii	Ditto	"	Hissar	Ditto	37 and 38	*Insert* "4·6 and +1·4," respectively.
"	Ditto	"	Multan	Rainfall	49	*For* "—1·6" *read* "—1·3."
ccxii	Ditto	"	Pasni	Pressure	4, 6, 7 and 9	*For* "29·610, 29·570, 29·719 and 29·394" *read* "29·608, 29·568, 29·717 and 29·392," respectively.
"	Ditto	"	Do.	Temperature	15, 17, 22 and 24	*For* "75·4, 82·3, 71·6 and 22·3," *read* "76·2, 82·7, 72·4 and 21·5," respectively.
ccxv	Ditto	"	Kashgar	Rainfall	56	*For* "0·05" *read* "0·50."
ccxix	Ditto	C	Muzaffarpur	Ditto	41	*For* "1·02" *read* "19·02."
ccxxi	Ditto	"	Tinnevelly	Ditto	41	*For* "0·9" *read* "0·09."
ccxxvi	September 1915	A	Bangalore	Temperature wet bulb.	20 and 23	*For* "65·6 and 69·0," *read* "65·4 and 68·9," respectively.
ccxxvii	Ditto	"	Do.	Vapour tension	24, 27 and 28	*For* "·612, ·654 and +·031," *read* "·606, ·652 and +·029," respectively.
"	Ditto	"	Do.	Humidity	29	*For* "95" *read* "94."
"	Ditto	"	Do.	Wind velocity	51	*For* "145" *read* "128."
ccxxxi	Ditto	B	Saugor Island	Ditto	37 and 38	*Insert* "5·2 and +2·7."
ccxxxii	Ditto	"	Patna	Pressure	4 to 7 and 9	*For* "29·560, +·006, 29·698, 29·730 and 29·344" *read* "29·572, +·018, 29·710, 29·742 and 29·356," respectively.

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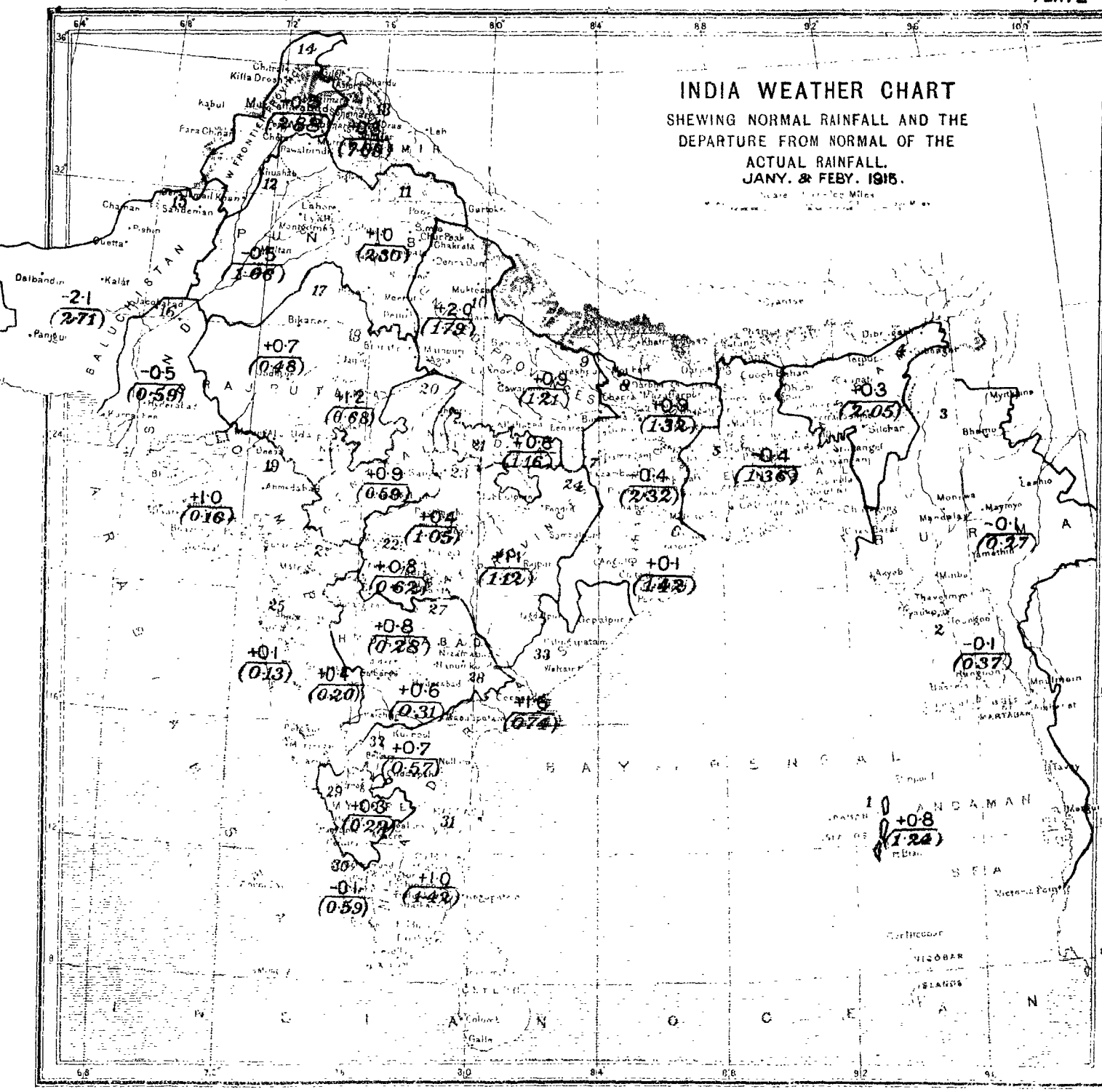
TABLES A, B & C—*concld.*

Page.	Part.	Table.	Meterological Province or Station.	Heading.	Column No.	Correction.
ccxl	September 1915 .	B	Pasni . .	Pressure . .	4, 6, 7 and 9	*For* "29·758, 29·719, 29·872 and 29·552" *read* "29·756, 29·717, 29·870 and 29·550," respectively.
"	Ditto . .	"	Do. . .	Temperature .	15, 17, 19, 22 and 24.	*For* "71·6, 80·5, 17·7, 60·4 and 35·4" *read* "72·4, 80·9, 16·2, 61·2 and 34·6," respectively.
"	Ditto . .	"	Murree . .	Ditto . .	20	*For* "97·1" *read* "79·1."
"	Ditto . .	"	Kalabagh . .	Pressure . .	5	*Insert* "+·007."
ccxli	Ditto . .	"	Do. . .	Rainfall . .	56	*For* "4·27" *read* "4·72."
ccxlii	Ditto . .	"	Muscat . .	Temperature .	16	*For* "—1·9" *read* "+1·9."
ccxliii	Ditto . .	"	Kashgar . .	Wind velocity .	36 and 38	*For* "0·9 and —1·3" *read* "0·8 and —1·4," respectively.
"	Ditto . .	"	Ispahan . .	Cloud . .	46	*Omit* the figures printed.
"	Ditto . .	"	Tehran . .	Rainfall . .	51	*For* "0·88" *read* "0·08."
"	Ditto . .	"	Footnote . .	...	...	*Omit* "* mean of 28 days."
ccxlvi	Ditto . .	C	Panerihat . .	Temperature .	3 and 9	*For* "74·9 and +0·1" *read* "‡75·7 and +0·3," respectively.
ccxlvii	Ditto . .	"	Do. . .	Hygrometry .	34	*For* "·842" *read* "·846."
cclx	October 1915 .	B	Patna . .	Pressure . .	4, 5, 6, 7 and 9	*For* "29·616, —·107?, 29·754, 29·765 and 29·480," *read* "29·628, —·095, 29·766, 29·777 and 29·492," respectively.
cclxi	Ditto . .	"	Saugor Island .	Wind velocity .	37 and 38	*Insert* "3·9 and +2·1," respectively.
cclxiii	Ditto . .	"	Hissar . .	Ditto . .	37 and 38	*Insert* "2·5 and +0·4."
"	Ditto . .	"	Khushab . .	Rainfall . .	50	*For* "0·7" *read* "0·17."
cclxviii	Ditto . .	"	Pasni . .	Pressure . .	4, 6, 7 and 9	*For* "29·859, 29·820, 30·033 and 29·736" *read* "29·863, 29·824, 30·037 and 29·740," respectively.
cclxxiv	Ditto . .	C	Panerihat . .	Temperature .	6 to 10	*For* "70·7†, +4·2†, 79·9†, +3·4† and 18·5," *read* "69·8, +3·3, 79·5, +3·0 and 19·4," respectively.
cclxxxviii	November 1915 .	B	Patna . .	Pressure . .	4 to 7 and 9	*For* "29·829, —·030, 29·972, 29·926 and 29·673," *read* "29·841, —·018, 29·984, 29·938 and 29·685," respectively.
cclxxxix	Ditto . .	"	Saugor Island .	Wind velocity .	37 and 38	*Insert* "4·3 and +1·4," respectively.
ccxcvi	Ditto . .	"	Quetta . .	Pressure . .	4	*For* "24·741" *read* "24·751."
"	Ditto . .	"	Pasni . .	Ditto . .	4, 6, 7 and 9	*For* "30·024, 29·984, 30·112 and 29·893" *read* "30·028, 29·988, 30·116 and 29·897," respectively.
ccxcix	Ditto . .	"	Meshed . .	Hygrometry .	42 and 44	*Insert* "+3 and —·038," respectively.
"	Ditto . .	"	Do. . .	Cloud . .	46	*Insert* "—1·6."
cccxv	December 1915 .	"	Saugor Island .	Wind velocity .	37 and 38	*Insert* "4·3 and +1·1," respectively.
cccxvi	Ditto . .	"	Patna . .	Pressure . .	4 to 7 and 9	*For* "29·902, —·022?, 30·051, 30·009 and 29·793," *read* "29·914, —·010, 30·063, 30·021 and 29·805," respectively.
cccxxiv	Ditto . .	"	Pasni . .	Ditto . .	4, 6, 7 and 9	*For* "30·114, 30·074, 30·268 and 30·040" *read* "30·118, 30·078, 30·272 and 30·044," respectively.

CALCUTTA:
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
8 HASTINGS STREET

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.

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



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.

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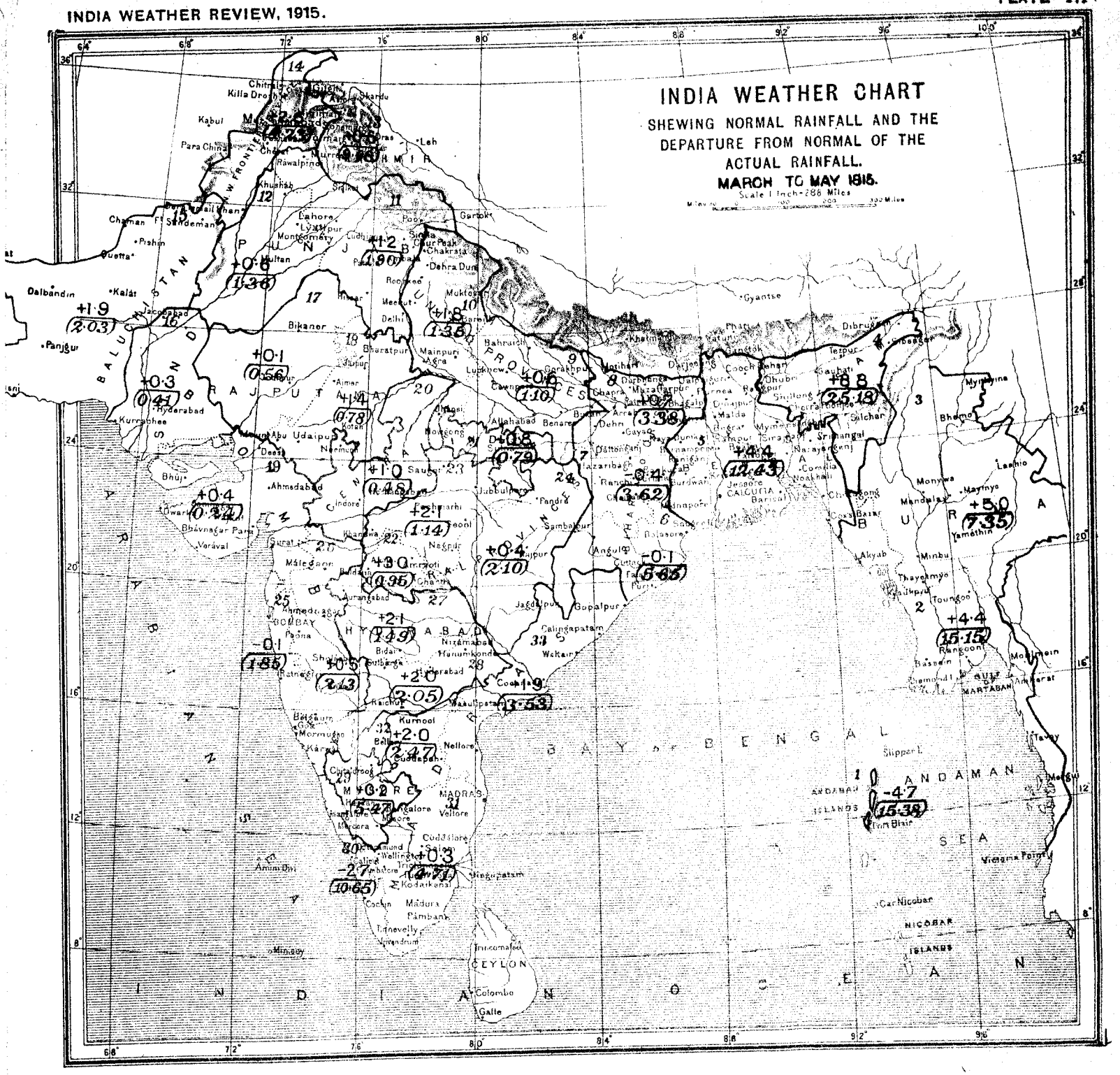

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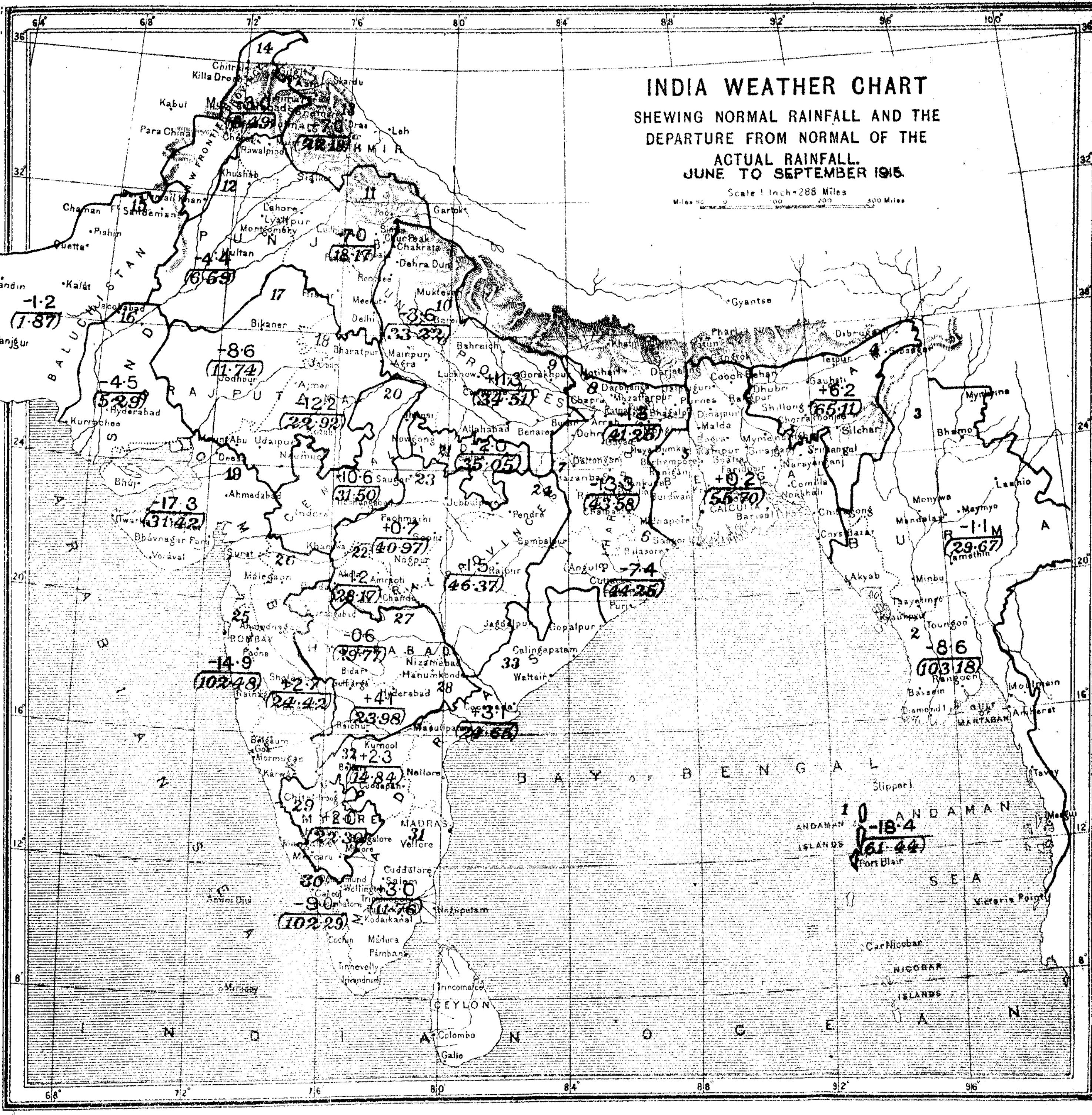

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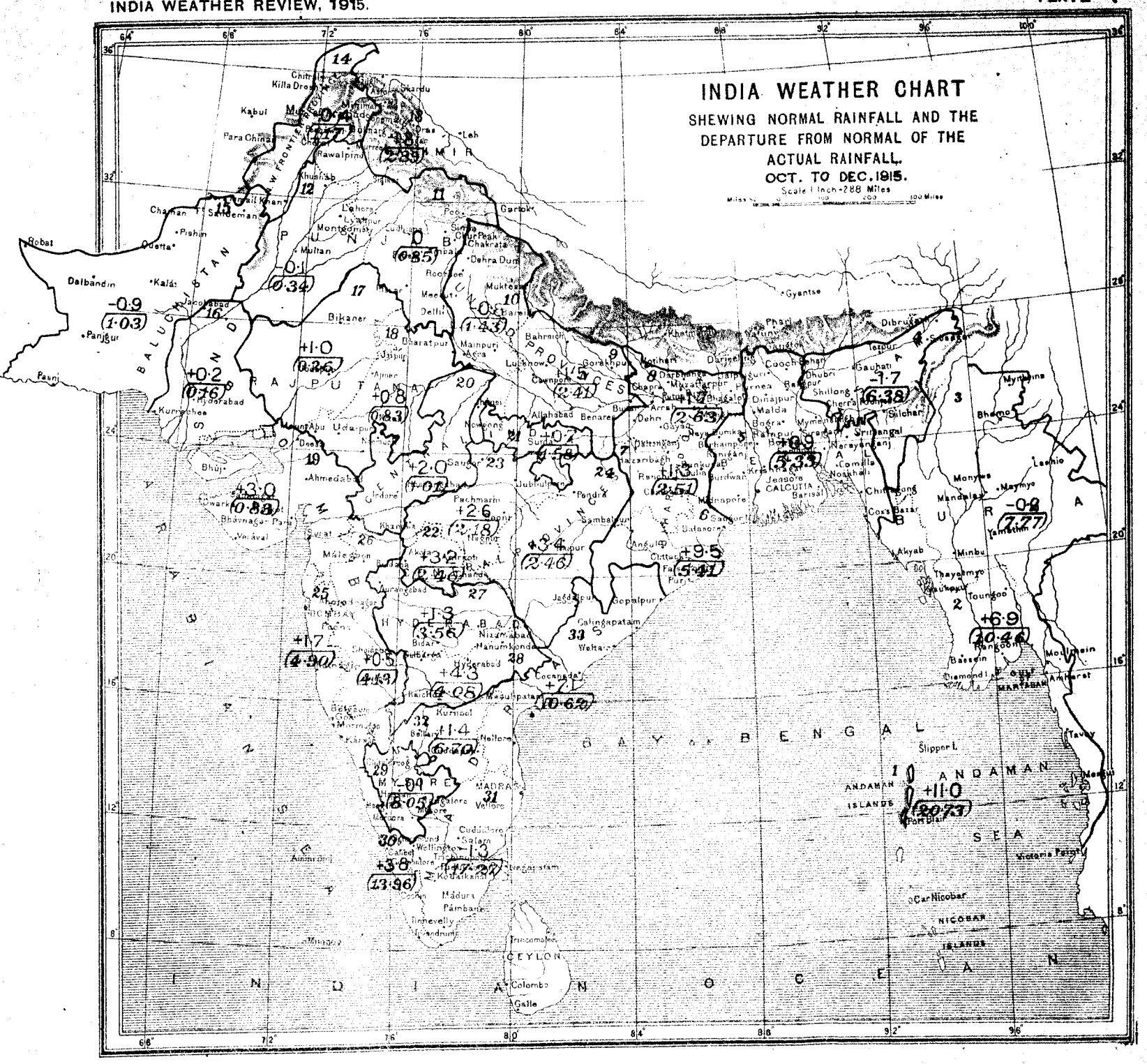

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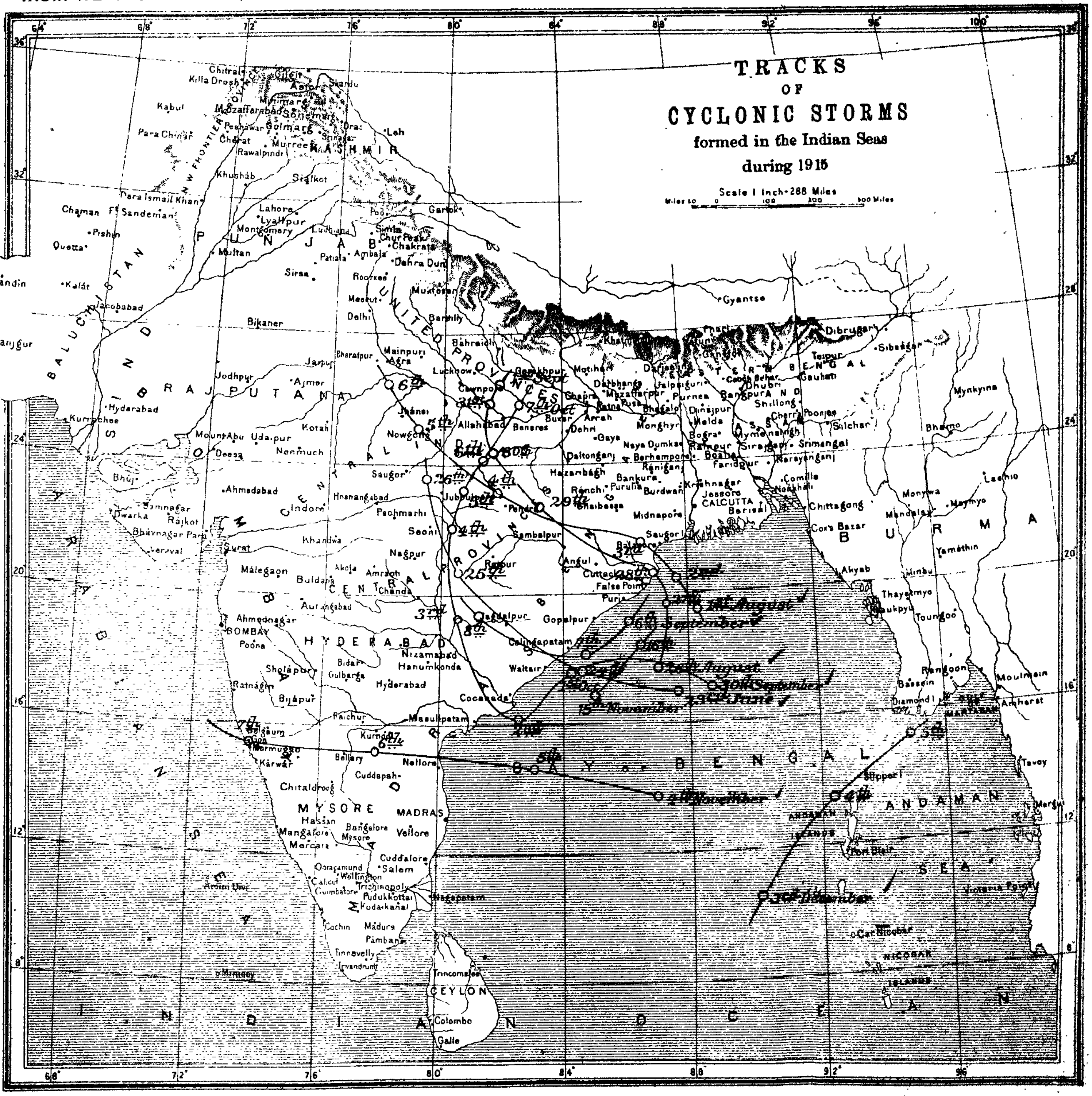
TRACKS
OF
CYCLONIC STORMS
formed in the Indian Seas
during 1915
Scale 1 Inch=288 Miles
BALUCHISTAN
PUNJAB
KASHMIR
UNITED PROVINCES
RAJPUTANA
SIND
CENTRAL INDIA
CENTRAL PROVINCES
BENGAL
BURMA
HYDERABAD
BOMBAY
MYSORE
MADRAS
CEYLON
ARABIAN SEA
BAY OF BENGAL
ANDAMAN SEA
INDIAN OCEAN
CALCUTTA
1st August
6th September
28th August
30th September
23rd June
15th November
24th November
30th December

(*This List of Publications is intended for Permanent Reference, and should be bound up with the Annual Summary*).

Publications of the India Meteorological Department.

(*Complete list, inclusive of those publications which are now out of print.*)

PUBLICATIONS OF THE INDIA METEOROLOGICAL DEPARTMENT.

The following is a list of the more important publications of the India Meteorological Department:—

The Indian Meteorologist's *Vade Mecum*, Part I, 2nd Edition. (1883). . . . . Price Rs. 3	Henry F. Blanford.
The Indian Meteorologist's *Vade Mecum*, Part II (1877) Price Rs. 5*	Ditto.
Instructions to Observers of the India Meteorological Department, 2nd Edition. (1902) . . . . . Price Rs. 3	Sir John Eliot.
Tables for the reduction of Meteorological Observations in India, 2nd Edition. (1889) . . . . . Price Rs. 2	Henry F. Blanford.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition. Vol. I—Text. (1900) . . Price Rs. 4	Sir John Eliot.
Handbook of Cyclonic storms in the Bay of Bengal for the use of sailors, 2nd Edition, Vol. II—Plates. (1901) . Price Rs. 1-8	Ditto.
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Cyclone Memoirs, Part IV—An enquiry into the nature and course of storms in the Arabian Sea and a catalogue and brief history of all recorded storms in the Arabian Sea from 1848—1889. (1891) . . . . . Price Rs. 3	W. L. Dallas.
Cyclone Memoirs, Part V—Account of three Cyclones in the Bay of Bengal and Arabian Sea during November, 1891. (1893) Price Rs. 3*	Sir John Eliot.
Report of the Midnapore and Burdwan Cyclone of the 15th and 16th of October, 1874. (1875) . . . . . Price Rs. 3*	W. G. Wilson.
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Report on the Madras Cyclone of May, 1877 (1879) Price Rs. 3*	Ditto.
Monthly weather charts of the Bay of Bengal and adjacent sea north of the equator, showing mean pressure, winds and currents. (1886) . . . . . Price Rs. 5*	Henry F. Blanford.
Monthly weather charts of the Arabian Sea and the adjacent portion of the North Indian Ocean, showing mean pressure, winds and currents. (1888). . . . . Price Rs. 5	Sir John Eliot.
Charts of the Bay of Bengal and adjacent sea north of the equator, showing the specific gravity, temperature and currents of the sea surface. (1887) . . . . . Price Rs. 1-8	W. L. Dallas.
Climatological Atlas of India (1906). Price Rs. 27 or 36 shillings .	Sir John Eliot.
Meteorological Atlas of the Indian seas and the north Indian Ocean (1908) . . . . . Price Rs. 13 or 17 shillings 6 pence	W. L. Dallas.
Daily weather reports and charts of the Indian monsoon area for the years 1893 to 1899 . . Price, each month, Re. 1 *	Departmental.
Normal weather or pilot charts of the Indian monsoon area for 8 A.M. for each month, November, 1900, to August 1908† Price, each month, Annas 4.	Ditto.
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List of cyclones on the West Coast of India and in the Arabian Sea up to the end of year 1881 . . . . . Price Rs. 2.	Fred. Chambers.
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Part IV, comprising— Account of the south-west monsoon storms generated in the Bay of Bengal during the years 1877 to 1881 . . Price Rs. 2	Ditto.
Part V, comprising— Observations of temperature and humidity at a height of 40 feet above the ground at Alipore Observatory, Calcutta. Price Re. 1	S. A. Hill.

Indian Meteorological Memoirs, Vol. III, containing a full discussion of the rainfall of India and cognate subjects, complete in 4 parts. Price, each part, Rs. 2* — Henry F. Blanford.

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Part IV, comprising— List and brief account of the south-west monsoon storms generated in the Bay of Bengal during the years 1882 to 1886. Price Rs. 3*	Sir John Eliot.
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Part VII, comprising— The Arabian Sea cyclone of the 4th to the 13th June, 1887 . .	Fred. Chambers.
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Part VIII, comprising— An account of the more important cold weather storms in India during the years 1876 to 1891 . . . . Price Rs. 3*	Sir John Eliot.

* Copies of publications to the price of which an asterisk is appended are out of print.
† Copies for June, August and September, 1901, and January to October, 1902, and August and September, 1903, are out of print.
‡ Copies for the years 1876, 1878 to 1881, 1884, 1887 and 1890 are out of print.

Continued on page c of this list.

Indian Meteorological Memoirs, Vol. V, containing :—	
The discussion of the hourly observations made at Sibsagar, Goalpara, Patna, Hazaribagh, Dhubri, Roorkee, Allahabad, Lucknow, Agra, Leh, Deesa, Kurrachee and Lahore and at Simla. Complete in 10 parts . . Price, each part, Re. 1*	Parts I—VII, Henry F. Blanford. Parts VIII—X, Sir John Eliot.
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The diurnal variation of atmospheric conditions at Chittagong, Cuttack, Jubbulpore, Pachmarhi, Nagpur, Poona, Belgaum, Bellary, Trichinopoly, Rangoon, Aden, Alipore and Jaipur. Complete in 9 parts . . . . Price, each part, Rs. 1-8*	Part I, Henry F. Blanford. Parts II—VII, Sir John Eliot. Part VIII, Douglas Archibald. Part IX, Sir John Eliot.
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Part III, comprising— Discussion of the comparative hourly meteorological observations recorded at Trivandrum, Kalliad, Vannatheertham and Agustia for the periods 23rd March to 20th April, 1857, 20th January to 19th February, 1859, 9th September to 8th October, 1864, and 2nd to 28th January, 1865, and at Charatha and Kamala from 20th January to 19th February, 1859 . . . Price Rs. 2*	Sir John Eliot.
Part IV, comprising— Plates I to LVII, title-page, table of contents and corrigenda of Volume X, Parts I, II and III of the Indian Meteorological Memoirs . . . . . Price Rs. 3	Ditto.
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Part III, comprising— Discussion of the results of the hourly observations recorded at 29 stations in India given in Volumes V, IX and X of the Indian Meteorological Memoirs (Final chapter and plates) . Price Rs. 3	Ditto.
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Part III, comprising— Discussion of monthly mean surface and underground temperatures, deduced from observations taken at Lahore, Jaipur, Dehra Dun, Allahabad and Calcutta during the years 1880—1901 . Price Re. 1*	R. Ll. Jones.
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Normal monthly and annual means of temperature, pressure, wind, humidity, cloud, rainfall and number of rainy days of stations in India, etc. . . . . Price Rs. 3	Ditto.

* Copies of publications to the price of which an asterisk is appended are out of print.

Continued on page d of this list.

Memoirs of the Indian Meteorological Department, Vol. XIX:—	
Parts I and II, comprising—	
A discussion of the anemographic observations recorded at Pachmarhi from September 1883 to April 1887, and at Nagpur from January 1882 to December 1902. Price Rs. 2	Sir John Eliot.
Parts III and IV, comprising—	
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