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## ANNUAL SUMMARY, 1909.

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UNDER THE DIRECTION OF

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# ANNUAL SUMMARY, 1909.

## INTRODUCTION.

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 systems 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 Southwest. |
| | Kashmir. |
| 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, Southeast. |
| | Madras Deccan. |
| | Madras Coast, North. |

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. In the case of thermometric observations, they are telegraphed to the nearest half degree. Hence 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 means of the more exact data (recorded to the tenth of a degree) tabulated in the observation forms sent to the Calcutta Office, and used in the calculation of the mean temperature data in Table A. There is also another reason why the data of mean maxima and minima in Tables A and B differ to a slight extent. 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 hence virtually of a monthly period one day in advance of the former. Similarly for months of 28, 29 or 30 days. These remarks will explain some of the slight discrepancies which may be found between the mean data of maximum and minimum temperature in Tables A and B, and hence also in the monthly mean departure data given in these tables in the monthly reviews and annual summary.

## Solar, Magnetic and Seismic Activity.

*Report from Kodaikanal Observatory.*

There was a general resemblance between the observing conditions in 1908 and 1909. July was the worst month in the year and the conditions were good in November. Sunspot obervations were possible on five days more than in the previous year, but there was a slight fall in the number of days on which other solar observations and photographs were made.

The following table shows for each month the observations that were made.

SOLAR Observations—Abstract.

TABLE I.

| — | 1909. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Total. |
| A . . . . | 28 | 28 | 31 | 30 | 28 | 29 | 29 | 30 | 28 | 30 | 29 | 29 | 349 |
| B . . . . | 18 | 13 | 10 | 6 | 7 | 5 | 1 | ... | 5 | 5 | 7 | 12 | 89 |
| C . . . . | 27 | 28 | 30 | 29 | 27 | 23 | 16 | 24 | 24 | 27 | 27 | 27 | 309 |
| D . . . . | 27 | 28 | 31 | 30 | 27 | 25 | 25 | 27 | 26 | 30 | 27 | 29 | 332 |
| E . . . . | 28 | 28 | 31 | 30 | 27 | 25 | 20 | 25 | 27 | 29 | 26 | 28 | 324 |

A=spots observed ; B=spot spectra ; C=prominences ; D=photoheliograms ; E=spectroheliograms.

**Sunspots.**—There was a marked revival in spot activity during the last three months of the year but for the year as a whole there was a slight decrease. The total number of new groups for the years 1907, 1908, and 1909 were respectively 301, 262, and 220, and the mean daily numbers were 4·4, 4·6, and 3·9.

Southern spots continued to preponderate greatly over the northern, the proportion being even higher than in 1908. So also the mean latitude of southern spots was slightly higher than that of the northern ones in every month except September and November. The mean latitudes for the whole year were 8·9 for northern spots and 10·8 for the southern.

On five days the sun's surface was recorded as free from spots. There was one day, December 25, on which ten groups were observed. A striking feature of the last three months of the year was the comparatively large number of groups which contained fairly large spots.

The following table shows the monthly number of new groups observed, the mean daily number 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 . . | 19 | 16 | 24 | 22 | 10 | 15 | 12 | 16 | 13 | 23 | 31 | 20 | 221 |
| Daily number . | 4·5 | 4·2 | 4·4 | 3·1 | 2·7 | 2·2 | 2·2 | 2·3 | 2·4 | 4·5 | 4·9 | 4·8 | 3·5 |
| North . . . | 8 | 5 | 6 | 4 | 3 | 4 | 7 | 6 | 6 | 13 | 13 | 8 | 83 |
| South . . . | 11 | 11 | 18 | 18 | 7 | 11 | 5 | 10 | 7 | 10 | 18 | 12 | 138 |

**Prominences.**—Prominences were recorded visually on 309 days as against 310 in 1908, but on as many as 65 days the combined visual and photographic record was imperfect owing to unfavourable weather conditions. The weather was most unfavourable in July when the prominence record was complete on only 9 days.

The activity as estimated by profile areas has been well maintained throughout the year, but the numbers obtained show a reduction of 23 per cent compared with the previous year.

The general activity of the two hemispheres compared with 1908 is given in the following table:—

*Mean daily profile areas of prominences.*

| | 1908 | 1909 |
|---|---|---|
| | Square minutes. | Square minutes. |
| North ... ... | 2·41 | 2·10 |
| South ... ... | 2·98 | 2·04 |
| Total . | 5·39 | 4·14 |

Considerable changes have taken place in the distribution of the prominences in latitude. The polar regions in both hemispheres have been inactive; that is, the mean areas in the regions comprised between latitudes 65° and the poles have fallen to less than one-tenth of the areas found in lower latitudes. A well-marked zone of activity has developed between the parallels 45° and 55° in the northern hemisphere, a corresponding active region in the south recorded in 1908 having subsided. Such alternations between north and south have been recorded previously and appear to be a characteristic feature of prominence development. This change has had the effect of restoring the balance of activity between the hemispheres which have been sensibly equal in 1909.

There has been a great reduction in the number of metallic prominences recorded, particularly in the southern hemisphere, and the mean latitudes have decreased largely. The mean and extreme latitudes observed are given in the following table:—

*Metallic prominences.*

TABLE 3.

| — | Number observed. | Mean latitude. | Extreme latitude. |
|---|---|---|---|
| North . . . . . | 21 | 8°·8 | 2° 16° |
| South . . . . . | 20 | 12°·2 | 2° 22° |

The prominence activity in each month may be estimated from the following table:—

*Numbers of Prominences.*

TABLE 4.

| Month. | Prominences one minute or more in height. | Metallic. | Eruptive. |
|---|---|---|---|
| January . . . . . | 57 | 5 | 4 |
| February . . . . . | 64 | 7 | 8 |
| March . . . . . | 52 | 6 | 6 |
| April . . . . . | 73 | 6 | 6 |
| May . . . . . | 43 | 1 | 1* |
| June . . . . . | 29 | 1 | 1 |
| July . . . . . | 11 | 1 | ... |
| August . . . . . | 24 | ... | ... |
| September . . . . . | 46 | 3 | 7 |
| October . . . . . | 37 | 3 | 2 |
| November . . . . . | 45 | 3 | 4 |
| December . . . . . | 58 | 5 | ... |

* The eruptive prominence was also metallic.

C. MICHIE SMITH,

*Director,*

*Kodaikanal and Madras Observatories.*

## Bombay Observatory (Alibagh) Magnetic Record.

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

| | | ° ′ ″ |
|---|---|---|
| Mean easterly declination | | 1 0 16 |
| „ horizontal force | | 0·36845 C.G.S. unit. |
| Vertical force (standardised by dip circle) | | 0·16008 „ „ |
| *Vertical force (standardised by inductor) | | 0·16033 „ „ |
| | | ° ′ |
| Inclination by dip circle | observed | 23 28·4 |
| „ „ | calculated | 23 29·0 |
| *Inclination by inductor | observed | 23 30·0 |
| | calculated | 23 31·0 |

During the year there were 149 calm days, 182 days of small, 25 days of moderate, 8 days of great and one day of very great disturbance. Similarly for the year 1908, there were 135 calm days, 199 days of small, 26 days of moderate and 6 days of great disturbance. This shows that the percentage of calm days has increased from 37% last year to 41% this year, the average for the 22 years (1883 to 1904) being 39%.

The largest disturbance during the year was recorded on the 25th September. The horizontal force traces of the 24th September showed that it was a quiet day and these conditions prevailed practically up to 13 hours of the 25th, when the curve appears to be slightly disturbed with an increasing disturbance. The large disturbance seems to overlap the former and appears to have commenced at 16·5 hours, with a sudden large increase of force equal to about 100 $\gamma$. After this the curve for about one hour shews large irregular movements but without any marked decrease in the value of force. At 17·4 hours, however, a sudden drop occurs and the trace passes beyond the paper at about 18·5 hours. The time hence of the attainment of the maximum of the disturbance in the horizontal force indicating the least value of force is lost. The indications of the vertical force however show that it must have been attained at about 18·5 hours, while the maximum effect in the declination curve shows that it must have occurred at 19·5 hours. A deflector was subsequently employed to get the trace back on the paper which shows roughly that the total fall of force must have exceeded 800 $\gamma$. After 22 hours the disturbance seems to have spent its force, and the conditions of restitution supervening, the curve rises rapidly till 5 A.M. the next day, and slowly thereafter for the next 24 hours. Normal conditions were not reached till after the 28th.

The following is a list of days selected as "quiet" for the purposes of the Magnetic Survey of India during the year :—

TABLE 5.

| Month. | | Selected Quiet days. | | | | |
|---|---|---|---|---|---|---|
| January | 1909 | 7 | 11 | 17 | 20 | 22 |
| February | „ | 11 | 12 | 15 | 16 | 19 |
| March | „ | 9 | 10 | 15 | 16 | 24 |
| April | „ | 6 | 8 | 15 | 21 | 22 |
| May | „ | 7 | 10 | 12 | 24 | 25 |
| June | „ | 6 | 9 | 13 | 20 | 27 |
| July | „ | 6 | 7 | 18 | 19 | 26 |
| August | „ | 6 | 15 | 16 | 17 | 24 |
| September | „ | 11 | 12 | 13 | 18 | 20 |
| October | „ | 5 | 14 | 15 | 17 | 28 |
| November | „ | 4 | 10 | 13 | 24 | 25 |
| December | „ | 5 | 8 | 11 | 24 | 29 |

* The simultaneous observations of dip taken by the Kew dip circle and Schulze's Inductor, show remarkably accordant results, the difference made out on the average being 2′·0. If the readings of the latter are more reliably correct as presumably must be the case, the values of inclination by the dip circle at Alibagh, would be subject to a correction of +2′·0, and the derived vertical force would hence need a correction of as much as +25$\gamma$ (0·00025 C.G.S.). Before however accepting the above result as final another year's result of comparison will be awaited.

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 representing the magnetic character of each day during the year 1909.*

TABLE 6.

| 1909. | MONTH. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date. | January. | February. | March. | April. | May. | June. | July. | August | September. | October. | November. | December. |
| 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 2 |
| 2 | 2 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 |
| 3 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 2 | 1 | 0 | 1 |
| 4 | 2 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1 |
| 5 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 6 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 7 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 |
| 8 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 |
| 9 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 10 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| 12 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 1 | 0 |
| 13 | 2 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 14 | 1 | 0 | 0 | 1 | 2 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 15 | 1 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 16 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 17 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 |
| 18 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 19 | 1 | 0 | 2 | 1 | 2 | 0 | 0 | 1 | 0 | 2 | 1 | 1 |
| 20 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 1 |
| 21 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 2 | 1 | 1 | 1 |
| 22 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 |
| 23 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| 24 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 2 | 0 | 0 |
| 25 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 |
| 26 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 | 2 | 1 | 0 | 1 |
| 27 | 2 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 0 | 2 | 1 |
| 28 | 1 | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 29 | 2 | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 1 | 0 |
| 30 | 2 | | 0 | 0 | 0 | 1 | 0 | 2 | 2 | 1 | 2 | 0 |
| 31 | 2 | | 0 | | 1 | | 0 | 1 | | 1 | | 1 |
| | 28 | 16 | 23 | 14 | 26 | 18 | 15 | 23 | 25 | 22 | 19 | 21 |

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

Table 7.—*Monthly values of magnetic elements.*

| 1909. | Absolute values of | | | | Horizontal force. | |
|---|---|---|---|---|---|---|
| | Horizontal force in C.G.S. unit | Vertical force in C.G.S. unit. | Inclination. | Easterly declination. | Summed ranges. | Summed ranges (smoothed.) |
| | | | ° ′ | ° ′ ″ | | |
| January | 0·36842 | 0·15970 | 23 26·1 | 1 1 17 | ·00219 | ·00289 |
| February | ·36848 | ·15972 | 23 26·1 | 1 0 59 | ·00233 | ·00284 |
| March | ·36847 | ·15968 | 23 25·8 | 1 1 14 | ·00246 | ·00290 |
| April | ·36861 | ·15982 | 23 26·4 | 1 0 43 | ·00388 | ·00296 |
| May | ·36846 | ·16001 | 23 28·4 | 1 0 19 | ·00339 | ·00297 |
| June | ·36861 | ·16015 | 23 29·0 | 0 59 53 | ·00311 | ·00301 |
| July | ·36860 | ·16019 | 23 29·4 | 0 59 52 | ·00283 | ·00302 |
| August | ·36851 | ·16023 | 23 30·0 | 0 59 57 | ·00269 | ·00301 |
| September | ·36823 | ·16026 | 23 31·2 | 1 0 3 | ·00397 | ·00298 |
| October | ·36808 | ·16027 | 23 31·8 | 1 0 3 | ·00262 | ·00290 |
| November | ·36838 | ·16037 | 23 31·5 | 0 59 43 | ·00329 | ·00280 |
| December | ·36849 | ·16052 | 23 32·3 | 0 59 11 | ·00266 | ·00274 |

NOTE.—Summed range means sum without regard to signs of 24 ordinates of diurnal inequality. Smoothed ranges are derived from running means of 12 consecutive monthly means reduced to the proper epoch so as to eliminate the annual variation.

*Table 8.—List of seismic disturbances.*

(All times given in this table denote G. M. T.)

| Date 1909. | | Commence. | | Max. | | End | | Max. amplitude. | Duration. | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | H. | M. | H. | M. | H. | M. | M.M. | H. | M. | |
| January | 22 | 12 | 43·6 | 12 | 52·5 | 13 | 0·1 | 0·6 | 0 | 16·5 | |
| " | 23 | 2 | 57·7 | 3 | 15·7 | 4 | 32·3 | 1·4 | 1 | 34·6 | |
| February | 2 | 19 | 24·8 | 19 | 25·5 | 19 | 34·9 | 0·2 | 0 | 10·1 | |
| " | 9 | 11 | 26·2 | 11 | 47·0 | 12 | 16·0 | 1·0 | 0 | 39·8 | |
| " | 9 | 14 | 59·8 | 15 | 2·9 | 15 | 13·5 | 0·3 | 0 | 13·7 | |
| " | 15 | 0 | 55·9 | 1 | 7·7 | 1 | 13·7 | 0·3 | 0 | 17·8 | |
| | 16 | 8 | 9·5 | 8 | 22·2 | 8 | 32·4 | 0·3 | 0 | 22·9 | |
| " | 22 | 9 | 45·6 | 9 | 50·6 | 10 | 59·5 | 0·6 | 1 | 13·9 | |
| March | 12-13 | 23 | 37·8 | 23 | 57·3 | 0 | 36·1 | 1·5 | 0 | 58·3 | |
| " | 13 | 14 | 40·0 | 15 | 11·9 | ... | | 2·0 | ... | | End lost in shifting time. |
| " | 17-18 | 23 | 4·8 | 23 | 29·0 | 0 | 16·3 | 2·0 | 1 | 11·5 | |

*Table 8.—List of seismic disturbances*—contd.

(All times given in this table denote G. M. T.)

| Date 1909. | | Commence. | | Max. | | End | | Max. amplitude. | Duration. | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | H. | M. | H. | M. | H. | M. | M.M. | H. | M. | |
| March | 29 | | 9·7 | 9 | 12·4 | 9 | 19·8 | 0·2 | 0 | 10·1 | |
| April | 9 | 7 | 3·0 | 7 | 4·1 | 7 | 12·2 | 0·2 | 0 | 9·2 | |
| ,, | 10 | 6 | 23·9 | 6 | 46·1 | 7 | 40·0 | 0·3 | 1 | 16·1 | |
| ,, | 10 | 18 | 56·0 | 19 | 28·6 | ... | | 0·9 | ... | | End cannot be determined as it merges in the beginning of another disturbance. |
| ,, | 10 | 20 | 2·2 | 20 | 22·7 | 21 | 29·8 | 4·9 | 1 | 27·6 | |
| ,, | 11 | 14 | 42·6 | 14 | 48·7 | 15 | 5·5 | 0·8 | 0 | 22·9 | |
| ,, | 12 | 2 | 42·1 | 2 | 47·9 | 2 | 53·9 | 0·4 | 0 | 11·8 | |
| ,, | 14 | 20 | 2·5 | 20 | 20·5 | 20 | 36·5 | 0·2 | 0 | 34·0 | |
| ,, | 25 | 23 | 6·9 | 23 | 14·7 | 23 | 30·1 | 0·4 | 0 | 23·2 | |
| ,, | 27 | 13 | 4·0 | 13 | 29·8 | 14 | 26·7 | 0·4 | 1 | 22·7 | |
| ,, | 29 | 22 | 58·1 | 23 | 5·0 | 23 | 28·2 | 0·5 | 0 | 30·1 | |
| May | 10 | 20 | 27·6 | 20 | 30·8 | 20 | 36·8 | 0·2 | 0 | 9·2 | |
| ,, | 12 | 1 | 31·0 | 1 | 40·3 | 1 | 59·7 | 0·3 | 0 | 28·7 | |
| ,, | 17 | 8 | 24·7 | 8 | 37·3 | ... | | 0·9 | ... | | End cannot be determined. |
| ,, | 17 | ... | | 9 | 23·7 | 10 | 31·6 | 0·8 | ... | | Beginning cannot be determined. |
| ,, | 30 | 21 | 22·1 | 21 | 43·3 | 22 | 4·6 | 0·5 | 0 | 42·5 | |
| June | 3 | 18 | 47·2 | ... | | 21 | 13·1 | ... | 2 | 25·9 | As the traces overlap max. amplitude cannot be determined. |
| ,, | 8 | 6 | 20·3 | 7 | 12·9 | ... | | 2·5 | ... | | End mixed up in tremors. |
| ,, | 9 | 1 | 46·2 | 1 | 53·8 | 2 | 21·1 | 0·5 | 0 | 34·9 | |
| ,, | 12 | 21 | 3·4 | 21 | 13·8 | 21 | 49·9 | 1·0 | 0 | 46·5 | |
| July | 7 | 21 | 41·9 | 21 | 45·7 | 23 | 33·4 | 15·3 | 1 | 51·5 | |
| ,, | 23 | 20 | 27·2 | 20 | 40·2 | 20 | 58·8 | 0·2 | 0 | 31·6 | |
| ,, | 26 | 10 | 58·6 | 11 | 4·3 | 11 | 35·2 | 1·1 | 0 | 36·6 | |
| ,, | 30 | ... | | 12 | 25·1 | 13 | 31·9 | 0·9 | ... | | Beginning mixed up in tremors. |
| ,, | 31 | ... | | 12 | 8·0 | ... | | 0·3 | ... | | Beginning and end mixed up in tremors. |

*Table 8.—List of seismic disturbances*—concld.

(All times given in this table denote G. M. T.)

| Date 1909. | | Commence. | | Max. | | End. | | Max. amplitude. | Duration. | | Remarks. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | H. | M. | H. | M. | H. | M. | M.M. | H. | M. | |
| July | 31 | 20 | 35·0 | 20 | 51·6 | 21 | 38·0 | 0·2 | 1 | 3·0 | |
| August | 2 | 10 | 27·1 | 10 | 29·1 | 10 | 41·9 | 0·2 | 0 | 14·8 | |
| ,, | 14 | 6 | 49·1 | 7 | 4·5 | 7 | 32·3 | 1·0 | 0 | 43·2 | |
| ,, | 16 | 8 | 21·6 | 8 | 30·3 | 9 | 2·3 | 0·3 | 0 | 40·7 | |
| ,, | 22 | 15 | 48·5 | 15 | 51·4 | 15 | 56·4 | 0·3 | 0 | 7·9 | |
| September | 8 | 17 | 12·9 | 17 | 48·5 | 18 | 14·1 | 0·6 | 1 | 1·2 | |
| ,, | 16 | 19 | 4·3 | 19 | 13·1 | 19 | 20·2 | 0·2 | 0 | 15·9 | |
| October | 20-21 | 23 | 45·3 | 23 | 47·9 | 1 | 30·7 | 16·1 | 1 | 45·4 | |
| ,, | 30 | 10 | 36·5 | 10 | 54·6 | 11 | 15·6 | 0·3 | 0 | 39·1 | |
| ,, | 31 | 11 | 43·8 | 11 | 49·9 | 12 | 37·1 | 0·5 | 0 | 53·3 | |
| November | 10 | 6 | 22·7 | 6 | 42·3 | 7 | 48·9 | 1·8 | 1 | 26·2 | |
| ,, | 21 | 8 | 2·4 | 8 | 9·2 | 8 | 26·3 | 0·8 | 0 | 23·9 | |
| December | 9 | 16 | 19·5 | 16 | 48·9 | 17 | 29·3 | 0·7 | 1 | 9·8 | |
| ,, | 9 | 22 | 8·1 | 22 | 30·8 | 22 | 43·8 | 0·4 | 0 | 35·7 | |
| ,, | 9-10 | 23 | 48·1 | 0 | 6·0 | 0 | 31·2 | 0·5 | 0 | 43·1 | |
| ,, | 22 | 13 | 47·5 | 13 | 58·6 | 14 | 13·5 | 0·3 | 0 | 26·0 | |

Between 1st January and 13th May 1909 1·0 mm of amplitude to tilt = 0·41″, between 14th May and 22nd June 1·0 mm of amplitude = 0·36″, between 3rd June and 20th July 1·0 mm of amplitude = 0·37″ and between 21st July and 31st December 1·0 mm of amplitude = 0·36″.

Table 7 gives the corrected monthly mean absolute values of the several magnetic elements, as also the summed ranges of the horizontal force. In table 8 will be found a list of seismic disturbances recorded by the Milne's seismograph.

The indications of the summed range curve in regard to the 11 year period secular variation show that the progress to the minimum has steadily continued during the year. A small inverse variation, however, is seen to affect the monthly values, which about June and July show a small rise.

N. A. F. MOOS,

*Director,*

*Bombay Observatory.*

## 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 9.

| 1909. | Intensity in gramme-calories per sq. cm. per min. | | | Number of days of observation. | 1909. | Intensity in gramme-calories per sq. cm. per min. | | | Number of days of observation. |
|---|---|---|---|---|---|---|---|---|---|
| | Maximum. | Minimum. | Mean. | | | Maximum. | Minimum. | Mean. | |
| January . . . | 1·53 | 1·39 | 1·47 | 12 | July . . . . . | | No observations. | | |
| February . . . | 1·54 | 1·41 | 1·46 | 10 | August . . . . | | No observations. | | |
| March . . . | 1·51 | 1·35 | 1·44 | 8 | September . . . | | No observations. | | |
| April . . . . | 1·47 | 1·29 | 1·38 | 7 | October . . . . | 1·51 | 1·35 | 1·44 | 18 |
| May . . . . | 1·47 | 1·21 | 1·36 | 12 | November . . . . | 1·50 | 1·42 | 1·45 | 25 |
| June . . . . | | No observations. | | | December . . . , | 1·49 | 1·44 | 1·46 | 11 |

It was stated in the Annual Report of 1889 that the observations of black bulb solar thermometers are liable to large and irregular changes which make them unfit for accurate observations. The instruments were accordingly withdrawn from use, except at the following stations :—

| | | |
|---|---|---|
| Srinagar. | Allahabad. | Leh. |
| Simla. | Calcutta (Alipore.) | Ootacamund. |
| Lahore. | Bombay. | Aden. |
| Jodhpur. | | |

Observations of the solar thermometers were made during the year 1909 at all these stations with the exception of Simla and Aden; at the latter station the thermometers were put out of use in 1903. The monthly averages of past years and the departures from them of the data of 1909 are given in Tables 10 and 11.

TABLE 10.—*Average excess of mean monthly and annual maximum insolation over the corresponding maximum shade temperature.*

| Station. | Period of observations used. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| Srinagar . . . . . | 1902–1909 | 32·9 | 39·4 | 45·0 | 05·2 | 52·5 | 51·5 | 51·6 | 47·2 | 44·0 | 41·4 | 36·5 | 30·4 | 43·5 |
| Lahore . . . . . | 1890–1909 | 47·3 | 53·9 | 55·0 | 56·0 | 52·3 | 49·6 | 51·9 | 53·6 | 52·5 | 51·2 | 49·0 | 46·6 | 51·5 |
| Jodhpur . . . . . | 1897–1909 | 52·5 | 54·9 | 56·7 | 56·4 | 54·1 | 53·4 | 56·2 | 56·3 | 55·6 | 53·1 | 51·4 | 50·4 | 54·3 |
| Allahabad . . . . . | 1890–1909 | 57·5 | 58·3 | 58·8 | 58·0 | 56·8 | 56·9 | 57·3 | 57·2 | 59·1 | 56·0 | 56·7 | 57·2 | 57·5 |
| Calcutta (Alipore) . . | 1890–1909 | 50·9 | 52·5 | 52·9 | 53·5 | 53·5 | 51·6 | 53·3 | 54·8 | 55·2 | 54·2 | 52·0 | 51·3 | 53·0 |
| Bombay . . . . . | 1890–1909 | 49·5 | 50·5 | 49·8 | 50·1 | 50·2 | 45·4 | 41·1 | 44·8 | 48·1 | 49·4 | 49·4 | 49·3 | 48·1 |
| Leh . . . . . | 1890–1909 | 64·7 | 72·6 | 71·4 | 70·7 | 68·2 | 66·0 | 64·6 | 65·0 | 65·3 | 65·9 | 64·7 | 62·1 | 66·8 |
| Ootacamund . . . . . | 1903–1909 | 68·4 | 70·0 | 70·2 | 69·6 | 67·3 | 61·1 | 57·8 | 63·3 | 69·8 | 67·5 | 69·3 | 67·9 | 66·9 |

TABLE 11.—*Departures from the averages of Table 10 of mean monthly and annual excess of sun over shade temperatures in 1909.*

| Station. | Number of years that the instrument the observations of which are utilized for this comparison has been in use. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| Srinagar . . . . . | 5 | +7·0 | −0·3 | +1·7 | −1·4 | +0·8 | −2·3 | −10·5 | −5·7 | −5·0 | −2·7 | −3·6 | −5·7 | −2·3 |
| Lahore . . . . . | 24 | −2·7 | −3·0 | −2·9 | −3·5 | −2·6 | −2·2 | +1·3 | −5·1 | −4·3 | −2·9 | −2·9 | ? | ? |
| Jodhpur . . . . . | 12 | +0·1 | +0·4 | −1·3 | −2·0 | −1·2 | +0·1 | +0·2 | −1·6 | −0·6 | −0·4 | +0·2 | ? | ? |
| Allahabad . . . . . | 7 | −1·2 | +2·5 | +1·9 | +4·3 | +2·4 | −0·3 | +1·6 | +0·2 | +0·6 | +0·8 | 0 | −0·7 | +1·0 |
| Calcutta (Alipore) . . . | 7 | −4·5 | −3·3 | −4·5 | +0·6 | −0·9 | −3·1 | +1·7 | −4·7 | −2·6 | −2·3 | −1·3 | ? | ? |
| Bombay . . . . . | 24 | −3·7 | −4·2 | −4·2 | −2·8 | −3·8 | −8·1 | −9·4 | −2·6 | −9·9 | −4·5 | −2·3 | ? | ? |
| Leh . . . . . | 14 | −8·0 | −3·3 | −9·2 | −2·2 | −3·6 | −4·1 | −1·8 | −1·5 | −4·3 | −4·3 | ? | ? | ? |
| Ootacamund . . . . | 4 | −7·1 | −4·0 | −6·4 | −2·3 | −5·7 | −2·9 | −11·9 | −7·7 | −7·3 | −2·8 | ? | ? | ? |

## Nocturnal Radiation.

Observations of the terrestrial radiation thermometers, which are as a rule not very reliable, were recorded during the year 1909 at the following stations:—

| | | |
|---|---|---|
| Srinagar. | Jodhpur. | Calcutta (Alipore). |
| Lahore. | Allahabad. | Bombay. |
| Leh. | | Ootacamund. |

The following Table 12 gives the average data of past years for the above stations; and TABLE 13 the departure from the normal.

TABLE 12.—*Average depression of mean monthly and annual nocturnal radiation temperatures below mean minimum shade temperatures.*

| Station. | Number of years of observations used. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| Srinagar | 11—16 | 7·8 | 8·3 | 9·5 | 9·7 | 10·4 | 10·2 | 10·3 | 9·9 | 12·1 | 11·9 | 11·2 | 11·1 | **10·2** |
| Lahore | 32—33 | 9·6 | 9·2 | 8·7 | 9·1 | 8·9 | 6·3 | 3·9 | 4·2 | 6·4 | 9·7 | 10·6 | 9·9 | **8·0** |
| Jodhpur | 12—14 | 8·7 | 8·9 | 8·7 | 7·7 | 5·1 | 2·6 | 1·8 | 2·0 | 4·6 | 9·3 | 10·9 | 9·8 | **6·6** |
| Allahabad | 32—33 | 11·1 | 11·4 | 12·6 | 12·2 | 9·0 | 5·0 | 3·0 | 2·6 | 4·2 | 9·3 | 12·5 | 12·3 | **8·8** |
| Calcutta (Alipore) | 32—33 | 7·6 | 7·0 | 5·9 | 4·4 | 3·0 | 2·1 | 1·8 | 1·9 | 2·5 | 4·4 | 6·6 | 7·9 | **4·6** |
| Bombay | 34 | 9·7 | 9·0 | 8·0 | 6·5 | 4·6 | 2·8 | 2·1 | 2·4 | 3·1 | 6·3 | 9·5 | 10·3 | **6·2** |
| Leh | 25—27 | 9·3 | 8·8 | 10·3 | 10·9 | 10·7 | 11·0 | 9·5 | 10·0 | 11·1 | 14·4 | 14·7 | 11·5 | **11·0** |
| Ootacamund | 6—7 | 8·7 | 8·8 | 7·7 | 6·3 | 5·1 | 3·2 | 2·0 | 2·8 | 3·2 | 3·8 | 4·8 | 6·9 | **5·3** |

TABLE 13.—*Departures from the averages of Table 12 of mean monthly and annual depression of nocturnal radiation temperatures in 1909.*

| Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| Srinagar | +0·6 | +0·4 | +2·7 | +3·4 | +7·1 | +5·9 | +9·9 | +10·3 | +3·6 | +1·1 | +0·1 | —1·2 | **+3·7** |
| Lahore | +1·9 | +2·4 | +3·5 | +0·2 | +3·1 | +0·6 | +0·7 | +0·8 | +0·7 | +1·3 | +0·9 | +0·8 | **+1·4** |
| Jodhpur | —3·1 | —0·9 | —0·2 | —1·0 | +1·0 | +0·6 | +0·2 | +0·9 | —0·6 | —4·2 | +1·4 | —0·4 | **—0·5** |
| Allahabad | +0·3 | +1·7 | +2·1 | —2·8 | +2·1 | —2·1 | —1·8 | +0·4 | +0·2 | +0·5 | —0·2 | —1·1 | **—0·1** |
| Calcutta (Alipore) | —1·7 | —1·1 | +0·6 | —0·9 | —0·1 | —0·3 | —0·2 | —0·5 | —0·8 | —1·4 | —2·5 | —3·5 | **—1·0** |
| Bombay | —3·6 | —1·9 | —1·6 | —1·8 | —1·4 | —0·4 | —0·4 | —0·2 | —1·1 | —1·9 | —2·9 | —3·8 | **—1·7** |
| Leh | —5·7 | —4·2 | —3·1 | —2·6 | —1·9 | —3·0 | —4·3 | —4·7 | —5·2 | —4·1 | ? | —1·0 | **?** |
| Ootacamund | +6·7 | +6·6 | +7·4 | +4·5 | +3·0 | +1·4 | —0·8 | —0·1 | +0·2 | +1·4 | +1·9 | +2·3 | **+2·9** |

## Temperature of the ground.

Observations of the temperature of the surface of the ground were recorded during the year 1909 at six stations, Lahore, Jaipur, Dehra Dun, Allahabad, Calcutta (Alipore) and Bombay; and of the temperature under ground at Dehra Dun and Bombay.

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 and Jaipur the surface thermometer is read four times daily, at Allahabad at 6, 14, and 22 hrs., and at Calcutta at 13 hrs. 45 mins. At Dehra Dun all the five ground thermometers are read at 15 hrs. daily, and 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 the 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 three 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 14.—*Departures from normal of the mean monthly and annual temperatures of the air and of the ground in 1909.*

| Station. | | January. | February. | March. | April. | May. | June. | July. | August | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| LAHORE | Air | −1·4 | −0·2 | −0·4 | −2·9 | −0·5 | −0·2 | −1·2 | +0·4 | −2·6 | +0·7 | +4·1 | −0·8 | −0·4 |
| | Surface | −1·3 | −1·2 | +1·6 | −2·4 | +0·1 | +1·5 | −1·7 | −0·6 | −6·9 | +0·7 | +2·9 | +0·2 | −0·6 |
| JAIPUR | Air | −1·1 | −0·6 | +0·8 | −3·7 | −1·9 | +0·1 | −2·8 | −2·3 | −2·2 | +1·0 | +1·9 | −2·5 | −1·1 |
| | Surface | −0·8 | +2·6 | +2·6 | −2·2 | +1·3 | +0·7 | −4·6 | −0·5 | −3·0 | +0·3 | +0·9 | −3·4 | −0·5 |
| DEHRA DUN | Air | −0·8 | +1·4 | +1·7 | −2·9 | +0·1 | −3·3 | −0·9 | −1·1 | +0·8 | +1·4 | +2·7 | −0·4 | −0·1 |
| | 1·1 feet deep | +0·7 | +1·3 | +3·2 | +0·9 | +1·3 | −1·0 | −0·6 | −0·6 | +1·4 | +3·0 | +4·8 | +1·2 | +1·3 |
| | 3·2 „ „ | +1·5 | +1·6 | +3·2 | +2·6 | +0·8 | +0·7 | −0·3 | −0·2 | +1·0 | +2·5 | +4·0 | +1·8 | +1·6 |
| | 6·4 „ „ | +1·4 | +1·5 | +1·8 | +2·7 | +1·0 | +1·5 | +0·7 | +0·2 | +0·1 | +0·9 | +2·2 | +1·7 | +1·6 |
| | 12·8 „ „ | +1·7 | +1·7 | +1·8 | +1·9 | +1·5 | +1·4 | +1·5 | +1·5 | +0·6 | +0·7 | +1·1 | +1·7 | +1·4 |
| | 25·6 „ „ | +1·2 | +1·3 | +1·3 | +1·4 | +1·3 | +1·4 | +1·4 | +1·9 | +1·6 | +1·1 | +0·8 | +0·8 | +1·3 |
| ALLAHABAD | Air | +1·9 | +0·6 | +1·1 | −3·5 | +0·3 | −5·6 | −1·8 | +1·8 | −0·5 | 0 | +1·4 | +0·5 | −0·3 |
| | Surface | +2·3 | +1·8 | +1·2 | −0·2 | +0·9 | −7·7 | −2·6 | +2·7 | +2·4 | +1·2 | +1·8 | +1·4 | +0·4 |
| CALCUTTA (ALIPORE). | Air | +3·9 | +1·6 | +2·9 | −2·7 | +0·7 | −1·0 | +0·4 | +0·3 | +0·6 | +0·7 | +2·1 | +1·2 | +0·9 |
| | Surface | +10·0 | +2·9 | −2·8 | −9·8 | −1·7 | −5·5 | −1·4 | −0·7 | −0·8 | −5·5 | −1·1 | +3·5 | −1·1 |
| BOMBAY | Air | −1·9 | −0·2 | +0·6 | −0·2 | +1·3 | +0·4 | −0·7 | +0·7 | −0·5 | −0·1 | +0·1 | −0·2 | −0·1 |
| | 1 inch deep | −1·5 | −0·7 | +0·4 | −0·5 | +1·0 | +0·8 | −0·5 | +0·6 | −0·4 | −0·3 | −0·2 | −0·5 | −0·2 |
| | 9 inches „ | +0·7 | +0·7 | +1·4 | +0·9 | +2·2 | +2·3 | +1·4 | +1·8 | +1·6 | +1·3 | +1·5 | +1·5 | +1·4 |
| | 1 foot 8 inches deep | +2·5 | +2·1 | +2·7 | +2·1 | +3·3 | +3·4 | +2·5 | +2·5 | +2·7 | +2·0 | +2·0 | +2·1 | +2·5 |
| | 5 feet deep | +2·4 | +2·1 | +2·3 | +2·2 | +2·3 | +2·6 | +2·3 | +2·0 | +2·1 | +1·8 | +1·6 | +1·6 | +2·1 |
| | 11 „ „ | +2·1 | +2·0 | +2·0 | +1·6 | +1·3 | +1·5 | +1·6 | +1·5 | +1·3 | +1·3 | +1·4 | +1·5 | +1·6 |

## 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 readings of the instruments was described in page 7 of the Monthly Weather Review for January 1909.

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," Vol. 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 15.

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 1909 are given the departures 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).

Tables 16 to 21 give summaries of the temperature departure data for each month of year 1909 and for the year. In the first set of tables (Tables 16, 17 and 18) the departure data are given for the 14 chief political divisions, and in the last three tables (Tables 19 to 21) the data are given for the 34 sub-divisions :—

TABLE 15.—*Departure from normal of monthly and annual mean air temperatures at first and second class observatories in 1909.*

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| BURMA | Rangoon | +1·3 | +2·1 | +0·2 | +0·5 | −1·0 | −0·2 | −0·2 | +1·2 | +0·6 | +0·5 | +0·1 | −0·2 | +0·4 |
| BENGAL | Calcutta | +3·9 | +1·6 | +2·9 | −2·7 | +0·7 | −1·0 | +0·4 | +0·3 | +0·6 | +0·7 | +2·1 | +1·2 | +0·9 |
| UNITED PROVINCES OF AGRA AND OUDH. | Allahabad | +1·9 | +0·6 | +1·1 | −3·5 | +0·3 | −5·6 | −1·8 | +1·8 | −0·5 | 0 | +1·4 | +0·5 | −0·3 |
| | Dehra Dun | −0·8 | +1·4 | +1·7 | −2·9 | +0·1 | −3·3 | −0·9 | −1·1 | +0·8 | +1·4 | +2·7 | −0·4 | −0·1 |
| PUNJAB | Lahore | −1·4 | −0·2 | −0·4 | −2·9 | −0·5 | −0·2 | −1·2 | +0·4 | −2·6 | +0·7 | +4·1 | −0·8 | −0·4 |
| RAJPUTANA | Jaipur | −1·1 | −0·6 | +0·8 | −3·7 | −1·9 | +0·1 | −2·8 | −2·3 | −2·2 | +1·0 | +1·9 | −2·5 | −1·1 |
| BOMBAY | Bombay | −1·9 | −0·2 | +0·6 | −0·2 | +1·3 | +0·4 | −0·7 | +0·7 | −0·5 | −0·1 | +0·1 | −0·2 | −0·1 |
| CENTRAL PROVINCES | Nagpur | +1·9 | −0·2 | +0·6 | −6·2 | −1·1 | −1·3 | −1·5 | +0·7 | −1·0 | +0·1 | +0·3 | +1·3 | −0·5 |
| HYDERABAD | Hyderabad | +2·6 | +0·3 | +0·3 | −2·6 | +0·7 | −1·7 | −1·4 | +1·3 | +0·4 | +1·3 | +1·8 | +3·8 | +0·6 |
| MYSORE | Bangalore | +2·1 | +1·3 | +1·3 | −0·5 | −1·2 | +0·5 | −0·6 | +0·6 | −0·6 | +1·0 | +2·4 | +2·9 | +0·8 |
| | Mysore | +0·9 | +0·4 | −0·1 | −1·5 | −2·6 | −1·3 | −1·5 | −0·6 | −1·8 | −0·1 | +0·7 | +1·7 | −0·5 |
| MADRAS | Madras | −0·1 | +0·5 | −1·0 | −0·7 | −1·0 | −0·6 | −1·1 | −1·4 | −1·4 | +2·1 | +2·2 | +1·9 | −0·1 |
| BAY ISLANDS | Port Blair | −0·6 | −0·2 | −1·6 | −2·0 | −1·9 | −1·2 | −1·3 | −1·1 | −0·7 | −1·5 | −1·7 | −0·9 | −1·2 |
| KASHMIR | Srinagar | −2·6 | −3·0 | +0·5 | +1·0 | −1·0 | +0·8 | −1·2 | +1·1 | −2·5 | +0·2 | +2·4 | −0·2 | −0·4 |
| | Leh | −5·7 | −1·9 | +1·3 | +1·1 | +0·5 | +1·9 | −1·0 | −0·2 | −1·1 | +0·3 | +1·8 | +1·2 | −0·1 |
| BALUCHISTAN | Quetta | −2·4 | −0·3 | −1·2 | +0·3 | −3·2 | +1·4 | 0 | +2·6 | −1·2 | +2·4 | +3·4 | −3·0 | −0·1 |

TABLE 15.—*Departure from normal of monthly and annual mean air temperatures at first and second class observatories in 1909.*—concld.

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN. | Simla | −0·8 | +0·5 | +1·7 | −2·2 | +0·2 | −3·6 | −1·1 | −1·0 | +0·4 | +1·1 | +1·9 | −0·8 | −0·3 |
| | Chakrata | −2·0 | +0·2 | +3·1 | −2·5 | +1·5 | −2·4 | 0 | −0·1 | +1·5 | +2·6 | +3·4 | −1·6 | +0·3 |
| | Katmandu | −1·0 | 0 | +1·8 | −1·4 | +2·7 | +0·3 | +0·1 | −0·7 | +1·1 | +1·5 | +2·2 | −2·9 | +0·3 |
| | Darjeeling | ? | ? | ? | ? | ? | ? | ? | ? | +1·6 | +3·1 | +4·2 | +0·8 | ? |
| | Pachmarhi | +2·4 | +0·6 | +1·1 | −4·1 | +0·7 | −0·8 | −0·7 | +0·6 | −0·9 | −0·6 | −0·5 | +1·7 | 0 |
| | Mount Abu | −2·3 | −0·8 | +0·6 | −4·0 | −1·3 | −0·1 | 0 | −1·6 | −1·5 | −1·2 | +0·3 | −2·8 | −1·2 |
| | Chikalda | +1·0 | 0 | +0·9 | −4·0 | −0·1 | −0·3 | −0·9 | +0·8 | −0·6 | 0 | +1·0 | −1·5 | −0·3 |
| EXTRA INDIA | Zanzibar | −0·2 | −0·4 | +1·0 | −1·9 | +0·7 | +0·1 | +0·4 | −0·3 | +0·8 | −0·6 | −0·5 | −2·0 | −0·2 |
| | Seychelles | +0·3 | −0·1 | +1·6 | +1·6 | −0·1 | +0·7 | +0·6 | −0·4 | +0·4 | +0·4 | +0·3 | +0·9 | +0·5 |
| | Mauritius | −1·3 | +0·6 | −0·3 | −0·3 | −2·1 | +0·2 | +0·6 | −0·3 | −0·2 | −1·6 | −0·3 | −0·7 | −0·5 |

TABLE 16.—*Departure of the mean monthly and annual maximum temperature from the normal in the fourteen chief political divisions of India in 1909, as given by all observatories.*

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

TABLE 17.—*Departure of the mean monthly and annual minimum temperature from the normal in the fourteen chief political divisions of India in 1909.*

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

TABLE 18.—*Departure of mean monthly and annual temperature from the normal in the fourteen chief political divisions of India in 1909.*

| Division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| Burma | +0·5 | +0·6 | +0·7 | —1·0 | —0·2 | —0·6 | —0·2 | +0·4 | +0·1 | +0·1 | +0·4 | 0 | +0·1 |
| Eastern Bengal and Assam | +1·0 | +0·1 | +2·2 | —2·4 | +0·5 | 0 | +0·9 | —0·8 | +1·2 | +0·7 | +1·7 | +0·8 | +0·5 |
| Bengal | +2·2 | —0·1 | +1·7 | —4·2 | +0·6 | —2·3 | —0·4 | —0·5 | —0·1 | —0·1 | +1·3 | +0·8 | —0·1 |
| United Provinces | +0·3 | —0·2 | +0·7 | —4·0 | —0·9 | —3·6 | —1·7 | —0·6 | —0·2 | +0·2 | +2·0 | —0·6 | —0·7 |
| Punjab | —1·9 | —1·2 | —0·8 | —2·9 | —1·3 | —1·2 | —1·8 | —0·5 | —2·4 | +0·5 | +3·1 | —1·7 | —1·0 |
| North-West Frontier Province | —3·1 | —1·6 | —1·0 | —0·5 | —1·6 | —0·2 | —2·4 | —0·5 | —1·6 | +1·3 | +3·4 | —2·0 | —0·8 |
| Sind | —1·8 | —0·6 | —0·7 | —1·6 | —2·0 | +0·3 | +0·4 | —0·4 | —0·4 | +1·0 | +4·0 | —0·5 | —0·2 |
| Rajputana | —1·7 | —1·2 | —0·7 | —3·3 | —2·3 | —0·5 | —3·1 | —3·0 | —3·0 | —0·6 | +1·1 | —2·4 | —1·7 |
| Bombay | 0 | —0·1 | +0·8 | —1·9 | 0 | —0·6 | —1·3 | —0·2 | —0·9 | —0·6 | +0·6 | +0·2 | —0·3 |
| Central India | +0·8 | —0·2 | +0·4 | —3·3 | —0·1 | —1·7 | —1·0 | —0·1 | —0·9 | —0·1 | +1·7 | +0·7 | —0·3 |
| Central Provinces | +2·1 | +0·1 | +1·3 | —4·2 | —0·1 | —0·7 | —1·2 | +0·6 | —1·2 | —0·8 | +0·4 | +1·6 | —0·2 |
| Hyderabad | +2·1 | +0·8 | +1·1 | —2·2 | +0·3 | —1·6 | —1·6 | +0·2 | —0·1 | 0 | +1·0 | +3·1 | +0·3 |
| Mysore | +1·6 | +1·0 | +0·6 | —0·4 | —1·5 | —0·5 | —1·2 | +0·3 | —1·2 | +0·4 | +2·0 | +2·3 | +0·3 |
| Madras | +0·6 | 0 | —0·4 | —0·5 | —1·0 | 0 | —0·9 | —0·7 | —0·9 | +1·1 | +1·7 | +1·6 | +0·1 |
| Mean of India when the size of the above areas is taken into account. | +0·4 | —0·2 | +0·5 | —2·5 | —0·5 | —1·0 | —1·1 | —0·5 | —0·8 | +0·1 | +1·5 | +0·3 | —0·3 |

TABLE 19.—*Departure of the monthly and annual maximum temperature from the normal in 34 sub-divisions of India in 1909.*

| Sub-division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| 1. Bay Islands | − 0·4 | − 1·6 | − 2·4 | − 3·5 | − 3·1 | − 1·3 | − 1·6 | − 1·0 | − 1·0 | − 1·6 | − 1·3 | − 0·9 | − 1·6 |
| 2. Lower Burma | + 0·6 | + 0·2 | − 0·1 | − 0·4 | − 0·5 | − 0·7 | − 0·6 | + 1·2 | − 0·3 | − 1·4 | − 1·4 | − 1·2 | − 0·4 |
| 3. Upper Burma | − 0·6 | − 0·9 | + 1·7 | − 4·1 | − 1·2 | − 2·0 | − 0·2 | − 0·7 | − 0·3 | − 0·2 | − 1·0 | − 0·9 | − 0·9 |
| 4. Assam | − 0·3 | + 1·5 | + 5·8 | − 2·2 | − 1·1 | − 0·9 | + 1·1 | − 1·9 | + 1·3 | − 0·1 | + 0·7 | − 0·2 | + 0·3 |
| 5. Eastern Bengal | + 2·4 | + 2·0 | + 5·1 | − 2·8 | + 1·3 | − 0·1 | + 1·1 | − 0·9 | + 1·7 | + 0·4 | + 1·2 | + 0·4 | + 1·0 |
| 6. Bengal | + 3·0 | + 1·3 | + 4·6 | − 4·8 | + 0·7 | − 2·4 | − 0·2 | − 0·6 | + 0·3 | + 0·2 | + 2·4 | + 0·3 | + 0·4 |
| 7. Orissa | + 1·8 | − 1·4 | + 2·1 | − 5·8 | − 1·1 | − 3·5 | − 1·9 | + 0·7 | − 1·2 | + 0·6 | + 2·3 | − 1·0 | − 0·7 |
| 8. Chota Nagpur | + 1·7 | − 0·5 | + 2·4 | − 7·6 | + 1·1 | − 4·2 | − 0·1 | + 0·1 | − 1·3 | + 0·5 | + 1·9 | − 1·0 | − 0·6 |
| 9. Bihar | + 2·5 | + 1·7 | + 4·3 | − 5·3 | + 2·4 | − 4·0 | + 0·2 | − 1·5 | + 0·5 | + 0·3 | + 2·3 | + 0·5 | + 0·3 |
| 10. United Provinces, East | + 1·7 | + 1·7 | + 3·0 | − 5·3 | + 1·3 | − 5·8 | − 2·0 | 0 | + 0·2 | + 1·6 | + 3·1 | − 0·5 | − 0·1 |
| 11. Do. do. West | − 1·3 | + 0·6 | + 1·8 | − 6·1 | − 0·2 | − 4·1 | − 2·5 | − 0·7 | − 0·4 | + 1·1 | + 3·0 | − 3·0 | − 1·2 |
| 12. Punjab, East and North | − 2·5 | − 0·3 | + 0·1 | − 5·7 | − 1·0 | − 2·7 | − 3·0 | − 1·9 | − 4·0 | − 0·6 | + 2·7 | − 4·4 | − 1·9 |
| 13. Punjab, Southwest | − 2·2 | − 1·7 | − 0·7 | − 4·9 | − 1·2 | − 0·8 | − 2·7 | + 0·2 | − 3·7 | − 0·3 | + 2·8 | − 4·4 | − 1·6 |
| 14. Kashmir | − 4·7 | − 3·2 | − 0·7 | + 2·0 | − 0·1 | + 2·6 | − 1·5 | − 0·4 | − 4·8 | − 1·0 | + 3·0 | + 0·1 | − 0·7 |
| 15. North-West Frontier Province | − 3·9 | − 1·3 | − 0·5 | − 1·9 | − 1·5 | − 0·9 | − 3·3 | − 1·6 | − 2·3 | − 0·1 | + 2·2 | − 4·4 | − 1·6 |
| 16. Baluchistan | − 5·3 | − 0·8 | − 0·6 | − 0·4 | − 5·4 | + 1·5 | − 0·6 | + 2·4 | − 1·0 | + 2·9 | + 5·5 | − 1·3 | − 0·3 |
| 17. Sind | − 2·7 | + 0·2 | − 0·7 | − 4·4 | − 1·3 | − 0·5 | − 0·1 | − 0·2 | − 0·3 | − 0·2 | + 3·5 | − 2·2 | − 0·7 |
| 18. Rajputana, West | − 2·6 | − 0·3 | + 0·4 | − 5·0 | − 2·0 | 0 | − 3·7 | − 3·8 | − 4·3 | − 1·1 | + 2·1 | − 4·3 | − 2·1 |
| 19. Do. East | − 2·0 | − 0·2 | + 1·4 | − 4·9 | − 1·1 | − 1·1 | − 4·8 | − 3·2 | − 3·0 | − 0·5 | + 2·1 | − 4·1 | − 1·8 |
| 20. Gujarat | − 2·7 | + 0·2 | + 1·8 | − 3·7 | + 0·1 | − 0·8 | − 2·6 | − 1·8 | − 2·1 | − 0·9 | + 2·1 | − 2·4 | − 1·1 |
| 21. Central India, West | − 0·7 | − 0·8 | + 0·9 | − 5·7 | − 1·8 | − 0·9 | − 1·5 | − 1·6 | − 1·9 | + 1·4 | + 2·7 | − 1·9 | − 1·0 |
| 22. Do. do. East | + 0·2 | − 0·8 | + 1·0 | − 6·9 | − 0·3 | − 4·4 | − 2·2 | + 1·3 | − 1·2 | + 1·7 | + 3·7 | − 0·5 | − 0·7 |
| 23. Berar | + 2·7 | − 0·1 | + 2·0 | − 3·9 | − 0·4 | − 0·7 | − 1·3 | + 1·7 | − 1·8 | + 1·9 | + 2·9 | − 2·7 | 0 |
| 24. Central Provinces, West | + 1·1 | − 1·1 | + 1·1 | − 5·9 | − 0·5 | − 1·0 | − 1·6 | + 1·1 | − 1·5 | + 1·5 | + 2·8 | − 1·6 | − 0·5 |
| 25. Do. do. East | + 1·7 | − 1·4 | + 0·8 | − 8·4 | − 1·3 | − 1·8 | − 2·4 | + 1·9 | − 0·9 | + 0·6 | + 1·9 | − 0·5 | − 0·8 |
| 26. Konkan | − 2·5 | − 1·4 | + 0·6 | − 1·3 | + 0·2 | − 0·4 | − 0·9 | + 0·1 | − 0·5 | − 0·9 | − 0·4 | − 1·8 | − 0·8 |
| 27. Bombay Deccan | + 2·3 | + 0·3 | + 2·5 | − 2·4 | − 0·1 | − 1·4 | − 1·8 | + 1·6 | − 1·0 | + 1·0 | + 2·7 | + 1·1 | + 0·4 |
| 28. Hyderabad, North | + 2·7 | + 0·9 | + 3·2 | − 2·4 | + 0·7 | ... | ... | ... | − 0·7 | − 0·3 | + 2·3 | + 0·9 | ... |
| 29. Do. South | + 1·2 | − 0·5 | + 0·7 | − 2·9 | − 0·6 | − 2·2 | − 2·4 | − 0·3 | + 0·1 | + 2·7 | + 3·2 | + 1·6 | + 0·1 |
| 30. Mysore | + 1·2 | + 0·9 | + 1·6 | − 0·3 | − 2·5 | − 0·6 | − 1·9 | 0 | − 2·0 | + 1·3 | + 2·8 | + 2·7 | + 0·3 |
| 31. Malabar | − 1·5 | − 0·9 | 0 | − 0·4 | − 1·5 | − 0·1 | − 1·0 | − 0·8 | − 0·8 | + 0·4 | − 0·9 | − 0·5 | − 0·7 |
| 32. Madras, Southeast | − 0·5 | − 0·2 | − 0·7 | − 0·3 | − 1·8 | + 0·1 | − 0·5 | − 1·5 | − 2·1 | + 1·7 | + 3·0 | + 2·3 | 0 |
| 33. Do. Deccan | + 0·1 | − 0·7 | + 0·8 | − 2·1 | − 1·8 | − 0·2 | − 0·6 | − 0·6 | − 0·9 | + 3·3 | + 4·6 | + 2·8 | + 0·4 |
| 34. Do. Coast, North | + 0·3 | − 0·8 | + 0·5 | − 1·7 | − 2·8 | − 0·6 | − 3·4 | − 0·5 | − 1·2 | + 3·1 | + 2·6 | + 0·9 | − 0·3 |

TABLE 20.—*Departure of the mean monthly and annual minimum temperature from the normal in 34 sub-divisions of India in 1909.*

| Sub-division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° |
| 1. Bay Islands | − 1·0 | + 1·1 | − 0·6 | − 0·6 | − 0·7 | − 1·0 | − 0·9 | − 0·8 | − 0·2 | − 1·0 | − 1·7 | − 0·9 | − 0·7 |
| 2. Lower Burma | + 1·3 | + 2·3 | + 0·9 | + 0·6 | + 0·2 | + 0·2 | − 0·1 | + 0·7 | + 0·6 | + 0·7 | + 1·5 | + 0·4 | + 0·8 |
| 3. Upper Burma | + 0·6 | + 0·2 | + 0·2 | − 0·7 | + 0·5 | 0 | + 0·1 | + 0·1 | + 0·4 | + 2·0 | + 2·8 | + 1·8 | + 0·7 |
| 4. Assam | + 0·3 | − 1·6 | − 0·8 | − 1·1 | − 0·8 | + 0·2 | + 0·8 | + 0·4 | + 1·4 | + 1·8 | + 1·7 | + 1·1 | + 0·3 |
| 5. Eastern Bengal | + 0·3 | − 1·6 | − 1·0 | − 2·3 | + 0·9 | + 0·3 | + 0·5 | − 0·7 | + 0·6 | + 0·9 | + 2·5 | + 1·5 | + 0·2 |
| 6. Bengal | + 2·9 | + 0·4 | + 0·2 | − 2·5 | + 0·5 | − 0·7 | − 0·5 | − 0·9 | 0 | 0 | + 1·8 | + 1·5 | + 0·2 |
| 7. Orissa | + 2·6 | − 0·3 | − 1·0 | − 3·0 | + 0·4 | − 2·1 | − 1·1 | 0 | − 0·5 | − 1·4 | − 1·2 | + 3·1 | − 0·4 |
| 8. Chota Nagpur | + 3·2 | + 0·5 | + 1·3 | − 4·2 | 0 | − 1·2 | − 0·1 | − 0·3 | + 0·3 | − 0·3 | − 0·3 | + 2·1 | + 0·1 |
| 9. Bihar | − 0·4 | − 2·8 | − 0·7 | − 1·5 | + 0·6 | − 0·7 | + 0·5 | − 0·8 | + 0·5 | − 0·9 | + 0·2 | + 0·5 | − 0·5 |
| 10. United Provinces, East | + 1·0 | − 1·8 | − 0·5 | − 2·1 | − 2·2 | − 2·9 | − 1·2 | − 1·0 | − 0·3 | − 1·6 | − 0·5 | + 0·3 | − 1·1 |
| 11. Do. do. West | + 0·1 | − 1·1 | − 1·3 | − 2·4 | − 2·2 | − 1·9 | − 1·0 | − 0·6 | − 0·3 | − 0·5 | + 2·1 | + 0·9 | − 0·7 |
| 12. Punjab, East and North | − 1·1 | − 1·9 | − 1·6 | − 0·8 | − 1·6 | − 0·8 | − 0·8 | 0 | − 0·8 | + 1·2 | + 3·0 | + 1·1 | − 0·3 |
| 13. Punjab, Southwest | − 1·5 | − 1·5 | − 1·5 | + 0·5 | − 1·3 | + 1·0 | − 0·1 | + 1·3 | − 1·1 | + 2·4 | + 4·5 | + 1·2 | + 0·3 |
| 14. Kashmir | − 5·1 | − 5·2 | − 1·3 | + 1·3 | − 0·9 | + 1·4 | + 0·2 | + 0·4 | − 1·4 | − 0·1 | − 0·1 | − 0·5 | − 0·9 |
| 15. North-West Frontier Province | − 2·1 | − 1·9 | − 1·5 | + 0·9 | − 1·7 | + 0·7 | − 1·4 | + 0·8 | − 0·8 | + 2·6 | + 4·5 | + 0·4 | 0 |
| 16. Baluchistan | − 2·5 | − 1·6 | − 2·5 | − 2·2 | − 6·8 | − 1·5 | − 2·9 | − 0·3 | − 4·2 | + 0·7 | − 0·7 | − 1·9 | − 2·2 |
| 17. Sind | − 0·8 | − 1·4 | − 0·6 | + 1·3 | − 2·7 | + 1·1 | + 0·8 | − 0·6 | − 0·4 | + 2·3 | + 4·4 | + 1·2 | + 0·4 |
| 18. Rajputana, West | − 2·2 | − 3·3 | − 3·0 | − 1·6 | − 3·7 | + 0·3 | − 1·2 | − 2·2 | − 3·5 | − 1·3 | − 0·9 | − 2·5 | − 2·1 |
| 19. Do. East | + 0·1 | − 1·2 | − 1·8 | − 1·4 | − 2·6 | − 1·0 | − 1·8 | − 2·5 | − 1·7 | − 0·1 | + 0·5 | + 0·1 | − 1·1 |
| 20. Gujarat | − 1·6 | − 0·2 | − 1·3 | + 0·5 | − 0·3 | + 0·3 | − 0·7 | − 0·7 | − 0·9 | − 0·7 | + 0·1 | − 0·3 | − 0·5 |
| 21. Central India, West | + 0·4 | + 0·3 | − 0·1 | − 0·8 | − 0·1 | + 0·2 | − 0·2 | − 0·7 | − 0·7 | − 1·7 | − 0·4 | + 1·7 | − 0·2 |
| 22. Do. Do. East | + 3·2 | + 0·6 | − 0·2 | + 0·3 | + 1·9 | − 1·5 | + 0·1 | + 0·7 | + 0·3 | − 1·8 | + 0·5 | + 3·5 | + 0·6 |
| 23. Berar | + 3·4 | + 2·5 | + 2·2 | − 1·9 | + 0·3 | + 0·1 | − 0·5 | + 0·1 | − 1·1 | − 2·3 | − 1·2 | + 5·3 | + 0·6 |
| 24. Central Provinces, West | + 1·8 | + 0·7 | + 0·7 | − 2·0 | + 0·5 | − 0·4 | − 0·8 | − 0·5 | − 0·7 | − 2·9 | − 1·8 | + 4·3 | − 0·1 |
| 25. Do. do. East | + 4·4 | + 1·2 | + 2·2 | − 4·1 | + 0·9 | − 0·6 | − 0·7 | + 0·7 | − 1·1 | − 3·5 | − 2·7 | + 6·0 | + 0·2 |
| 26. Konkan | + 1·2 | − 1·4 | + 0·6 | − 2·0 | + 0·2 | − 0·3 | − 1·0 | − 0·2 | − 0·5 | − 1·1 | − 0·3 | + 0·8 | − 0·3 |
| 27. Bombay Deccan | + 3·0 | + 1·0 | + 1·3 | − 2·6 | + 0·3 | − 0·8 | − 0·3 | − 0·3 | − 0·3 | − 0·6 | − 0·9 | + 4·3 | + 0·3 |
| 28. Hyderabad, North | + 3·2 | + 1·2 | + 2·2 | − 2·1 | + 0·1 | ... | ... | ... | − 0·7 | − 3·1 | − 3·2 | + 5·1 | ... |
| 29. Do. South | + 2·7 | + 1·6 | − 0·2 | − 1·4 | + 1·1 | − 1·0 | − 0·8 | + 0·8 | + 0·3 | − 1·1 | + 0·1 | + 4·7 | + 0·6 |
| 30. Mysore | + 1·9 | + 0·9 | − 0·4 | − 0·4 | − 0·4 | − 0·4 | − 0·4 | + 0·7 | − 0·4 | − 0·4 | + 1·2 | + 2·0 | + 0·3 |
| 31. Malabar | + 1·7 | + 0·2 | + 0·3 | + 0·4 | − 0·1 | + 0·8 | − 0·7 | + 0·2 | − 0·2 | + 0·6 | + 1·0 | + 0·8 | + 0·4 |
| 32. Madras, Southeast | + 0·8 | + 0·3 | − 0·6 | + 0·1 | − 0·4 | 0 | − 0·4 | − 0·7 | − 0·3 | + 0·2 | + 1·0 | + 0·9 | + 0·1 |
| 33. Do. Deccan | + 3·0 | + 1·1 | − 1·5 | − 1·7 | − 0·3 | − 0·2 | − 0·4 | − 0·4 | − 0·1 | − 0·6 | + 1·1 | + 3·7 | + 0·3 |
| 34. Do. Coast, North | + 2·3 | + 0·9 | − 1·2 | − 0·8 | + 0·4 | − 0·4 | − 1·3 | − 0·2 | − 0·1 | + 0·1 | + 1·1 | + 2·5 | + 0·3 |

TABLE 21.—*Departure of the mean monthly and annual temperature from the normal in 34 sub-divisions of India in 1909.*

| Sub-division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | ° | |
| 1. Bay Islands | −0·7 | −0·3 | −1·5 | −2·1 | −1·9 | −1·1 | −1·3 | −0·9 | −0·6 | −1·3 | −1·5 | −0·9 | −1·2 |
| 2. Lower Burma | +0·9 | +1·3 | +0·4 | +0·1 | −0·1 | −0·3 | −0·3 | +0·9 | +0·1 | −0·3 | +0·1 | −0·4 | +0·2 |
| 3. Upper Burma | 0 | −0·3 | +0·9 | −2·4 | −0·3 | −1·0 | −0·1 | −0·3 | +0·1 | +0·9 | +0·9 | +0·5 | −0·1 |
| 4. Assam | 0 | −0·1 | +2·5 | −1·7 | −0·9 | −0·3 | +0·9 | −0·7 | +1·3 | +0·9 | +1·2 | +0·5 | +0·3 |
| 5. Eastern Bengal | +1·3 | +0·2 | +2·1 | −2·5 | +1·1 | +0·1 | +0·8 | −0·8 | +1·1 | +0·7 | +1·9 | +0·9 | +0·6 |
| 6. Bengal | +2·9 | +0·9 | +2·4 | −3·7 | +0·6 | −1·5 | −0·3 | −0·7 | +0·1 | +0·1 | +2·1 | +0·9 | +0·3 |
| 7. Orissa | +2·2 | −0·9 | +0·5 | −4·4 | −0·3 | −2·8 | −1·5 | +0·3 | −0·9 | −0·4 | +0·5 | +1·1 | −0·5 |
| 8. Chota Nagpur | +2·5 | 0 | +1·9 | −5·9 | +0·5 | −2·7 | −0·1 | −0·1 | −0·5 | +0·1 | +0·8 | +0·5 | −0·3 |
| 9. Bihar | +1·1 | −0·5 | +1·8 | −3·4 | +1·5 | −2·3 | +0·3 | −1·1 | +0·5 | −0·3 | +1·3 | +0·5 | −0·1 |
| 10. United Provinces, East | +1·3 | −0·1 | +1·3 | −3·7 | −0·5 | −4·3 | −1·6 | −0·5 | −0·1 | 0 | +1·3 | −0·1 | −0·6 |
| 11. Do. do. West | −0·6 | −0·3 | +0·3 | −4·3 | −1·2 | −3·0 | −1·7 | −0·7 | −0·3 | +0·3 | +2·5 | −1·1 | −0·8 |
| 12. Punjab, East and North | −1·8 | −1·1 | −0·7 | −3·3 | −1·3 | −1·7 | −1·9 | −0·9 | −2·4 | +0·3 | +2·9 | −1·7 | −1·1 |
| 13. Punjab, Southwest | −1·9 | −1·6 | −1·1 | −2·2 | −1·3 | +0·1 | −1·5 | +0·7 | −2·4 | +1·1 | +3·7 | −1·6 | −0·7 |
| 14. Kashmir | −4·9 | −4·2 | −1·0 | +1·7 | −0·5 | +2·0 | −0·7 | 0 | −3·1 | −0·5 | +1·5 | −0·2 | −0·8 |
| 15. North-West Frontier Province | −3·0 | −1·6 | −1·0 | −0·5 | −1·6 | −0·1 | −2·3 | −0·4 | −1·5 | +1·3 | +3·3 | −2·0 | −0·8 |
| 16. Baluchistan | −3·9 | −1·2 | −1·5 | −1·3 | −6·1 | 0 | −1·7 | +1·1 | −2·6 | +1·8 | +2·4 | −1·6 | −1·2 |
| 17. Sind | −1·7 | −0·6 | −0·7 | −1·5 | −2·0 | +0·3 | +0·3 | −0·4 | −0·3 | +1·1 | +3·9 | −0·5 | −0·2 |
| 18. Rajputana, West | −2·4 | −1·8 | −1·3 | −3·3 | −2·9 | +0·1 | −2·5 | −3·0 | −3·9 | −1·2 | +0·6 | −3·4 | −2·1 |
| 19. Do. East | −0·9 | −0·7 | −0·2 | −3·1 | −1·9 | −1·1 | −3·3 | −2·9 | −2·3 | −0·3 | +1·3 | −2·0 | −1·5 |
| 20. Gujarat | −2·1 | 0 | +0·3 | −1·6 | −0·1 | −0·3 | −1·7 | −1·3 | −1·5 | −0·8 | +1·1 | −1·3 | −0·8 |
| 21. Central India, West | −0·1 | −0·3 | +0·4 | −3·3 | −0·9 | −0·3 | −0·9 | −1·1 | −1·3 | −0·1 | +1·1 | −0·1 | −0·6 |
| 22. Do. do. East | +1·7 | −0·1 | +0·4 | −3·3 | +0·8 | −2·9 | −1·1 | +1·0 | −0·5 | −0·1 | +2·1 | +1·5 | 0 |
| 23. Berar | +3·1 | +1·2 | +2·1 | −2·9 | −0·1 | −0·3 | −0·9 | +0·9 | −1·5 | −0·2 | +0·9 | +1·3 | +0·3 |
| 24. Central Provinces, West | +1·5 | −0·2 | +0·9 | −3·9 | 0 | −0·7 | −1·2 | +0·3 | −1·1 | −0·7 | +0·5 | +1·3 | −0·3 |
| 25. Do. do. East | +3·1 | −0·1 | +1·5 | −6·3 | −0·2 | −1·2 | −1·5 | +1·3 | −1·0 | −1·5 | −0·4 | +2·7 | −0·3 |
| 26. Konkan | −0·7 | −1·4 | +0·6 | −1·7 | +0·2 | −0·3 | −0·9 | −0·1 | −0·5 | −1·0 | −0·3 | −0·5 | −0·5 |
| 27. Bombay Deccan | +2·7 | +0·7 | +1·9 | −2·5 | +0·1 | −1·1 | −1·1 | +0·7 | −0·7 | +0·2 | +0·9 | +2·7 | +0·4 |
| 28. Hyderabad, North | +2·9 | +1·1 | +2·7 | −2·3 | +0·4 | ... | ... | ... | −0·7 | −1·7 | −0·5 | +3·0 | ... |
| 29. Do. South | +1·9 | +0·5 | +0·3 | −2·1 | +0·3 | −1·6 | −1·6 | +0·3 | +0·2 | +0·8 | +1·7 | +3·1 | +0·3 |
| 30. Mysore | +1·5 | +0·9 | +0·6 | −0·3 | −1·5 | −0·5 | −1·1 | +0·3 | −1·2 | +0·5 | +2·0 | +2·3 | +0·3 |
| 31. Malabar | +0·1 | −0·3 | +0·1 | 0 | −0·8 | +0·3 | −0·9 | −0·3 | −0·5 | +0·5 | +0·1 | +0·1 | −0·1 |
| 32. Madras, Southeast | +0·1 | +0·1 | −0·7 | −0·1 | −1·1 | +0·1 | −0·5 | −1·1 | −1·2 | +0·9 | +2·0 | +1·6 | 0 |
| 33. Do. Deccan | +1·5 | +0·2 | −0·3 | −1·9 | −1·1 | −0·2 | −0·5 | −0·5 | −0·5 | +1·3 | +2·9 | +3·3 | +0·3 |
| 34. Do. Coast, North | +1·3 | +0·1 | −0·3 | −1·3 | −1·2 | −0·5 | −2·3 | −0·3 | −0·7 | +1·6 | +1·9 | +1·7 | 0 |

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.**—Several depressions occurred in Persia during this period. Some of these pursued a more northerly course than usual and thus passed to our north, while others arrived in India in too weak a condition to produce much precipitation. As a result the weather although of the usual character in the mountain zone bordering upper India was very dry in the plains of northern India. Precipitation was on the other hand markedly above the normal in Madras and Mysore in consequence of the passage of a cyclonic storm in the first week of January, and in considerable excess in the Bay Islands and Lower Burma.

Owing to the failure of the storms to advance across northern India no marked hot or cool waves occurred.

The temperature conditions of the period in the plains of India did not depart to any large extent from the normal. The only noteworthy features were (*a*) a slight defect in the Punjab, the North-West Frontier Province, Sind and Rajputana shown almost equally in the day time and at night; (*b*) a slight excess in the Central Provinces, Hyderabad and Mysore, more marked in the night than in the day temperature, and also in Bengal.

TABLE 22.

| Division. | Departure from normal of period, January and February. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Burma | −0·1 | +1·2 | +0·5 |
| Eastern Bengal and Assam | +1·7 | −0·7 | +0·5 |
| Bengal | +1·4 | +0·7 | +1·1 |
| United Provinces | +0·6 | −0·5 | +0·1 |
| Punjab | −1·5 | −1·5 | −1·5 |
| North-West Frontier Province | −2·6 | −2·0 | −2·3 |
| Sind | −1·3 | −1·1 | −1·2 |
| Rajputana | −1·3 | −1·5 | −1·5 |
| Bombay | −0·5 | +0·4 | −0·1 |
| Central India | −0·5 | +1·1 | +0·3 |
| Central Provinces | +0·3 | +1·9 | +1·1 |
| Hyderabad | +0·7 | +2·1 | +1·5 |
| Mysore | +1·1 | +1·4 | +1·3 |
| Madras | −0·5 | +1·1 | +0·3 |

In the western Himalayas, east Turkistan, Afghanistan and the hill districts of Baluchistan the lowness of temperature was marked, the defect amounting to 8° in Kabul, 4½° in Leh, 4° in Kashgar and Murree and 3° in Chaman, Srinagar and Kailang.

These conditions did not extend westwards beyond central Persia, for at Baghdad and Bushire both day and night temperatures were somewhat higher than usual.

TABLE 23.

| Station. | Departure from normal of period, January and February. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Baghdad | +1·9 | +1·8 | +1·9 |
| Bushire | +1·3 | +1·1 | +1·2 |
| Tehran | −1·1 | −2·1 | −1·6 |
| Ispahan | −1·1 | +1·1 | 0 |
| Jask | +0·3 | +1·4 | +0·9 |
| Chaman | −3·1 | −2·4 | −2·7 |
| Quetta | −2·9 | −0·7 | −1·8 |
| Kabul | −5·9 | −9·9 | −7·9 |
| Cherat | −2·9 | −1·0 | −1·9 |
| Murree | −4·5 | −3·2 | −3·9 |
| Gilgit | −1·3 | −1·9 | −1·6 |
| Kashgar | −1·1 | −6·3 | −3·7 |
| Srinagar | −3·0 | −3·2 | −3·1 |
| Kailang | −3·5 | −3·6 | −3·5 |
| Simla | +0·1 | −0·6 | −0·3 |
| Leh | −4·5 | −4·7 | −4·6 |
| Chakrata | −0·2 | −1·5 | −0·9 |
| Darjeeling | +2·2 | +0·4 | +1·3 |

The lowest temperatures of the period and of the year were by no means remarkable and occurred at different times in different parts of northern and central India, an indication that they were caused by local actions and not by the passage of a cold wave, as is ordinarily the case.

**II.—The hot weather period.**—Weather was exceedingly dry in March and remarkably wet in April, many places having received from four to twenty times the normal quantity of rainfall. The rainfall of May was in defect in northern India and greater than usual in the peninsula and Burma. An important feature was the occurrence of excessive snowfall in Afghanistan and the Punjab Himalayas in April, and in the former region also in May.

The deviations from normal of temperature were determined chiefly by the abnormalities of cloud and rainfall in the period itself and only to a slight extent by those of the cold weather season. In the comparatively dry and clear weather of March day temperature was generally higher than usual, except in Madras and the extreme north-west, and night temperature was either normal or in defect, but in April when unusually heavy precipitation occurred day temperature was markedly, and night temperature slightly, in defect in most parts of the country. In May both day and night temperatures were inclined to be low in northwest India, and day temperature also in the peninsula and Central India; while over the rest of the country the temperature conditions were very nearly normal.

On the average of the whole period temperature differed by more than 2° from the normal in none of the larger provinces with the exception of Rajputana (—2·1°).

TABLE 24.

| Division. | Departure from normal of period, March to May. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Burma | —0·7 | +0·3 | —0·2 |
| Eastern Bengal and Assam | +1·1 | —0·9 | +0·1 |
| Bengal | —0·5 | —0·8 | —0·6 |
| United Provinces | —0·9 | —1·8 | —1·4 |
| Punjab | —2·2 | —1·1 | —1·7 |
| North-West Frontier Province | —1·3 | —0·8 | —1·0 |
| Sind | —2·1 | —0·7 | —1·4 |
| Rajputana | —1·8 | —2·3 | —2·1 |
| Bombay | —0·4 | —0·4 | —0·4 |
| Central India | —2·1 | +0·2 | —1·0 |
| Central Provinces | —1·8 | —0·2 | —1·0 |
| Hyderabad | —0·5 | 0 | —0·3 |
| Mysore | —0·4 | —0·4 | —0·4 |
| Madras | —0·9 | —0·4 | —0·6 |

The greatest heat of the year occurred towards the end of May in the United Provinces and the east and north Punjab, about the 6th of June in Rajputana and upper Sind, and on June 27 in the North-West Frontier Province and the southwest Punjab: in the two last named areas the full development of the hot weather conditions is accomplished usually in the first or second week of June. The absolute maximum temperature of the year was as usual registered at Jacobabad, and was 0·5° higher than the corresponding reading recorded in 1908.

The low temperature conditions in the north of India did not extend westwards beyond Baluchistan, nor were they appreciable even in Afghanistan and Kashmir—an indication that the associated snowfall was merely local.

TABLE 25.

| Station. | Departure from normal of period, March to May. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Baghdad | +5·6 | +3·9 | +4·7 |
| Bushire | +2·5 | +2·6 | +2·5 |
| Tehran | +2·5 | +0·7 | +1·6 |
| Ispahan | —1·7 | —0·3 | —1·0 |
| Jask | +0·5 | +1·5 | +1·0 |
| Chaman | —3·3 | —4·4 | —3·9 |
| Quetta | —1·0 | —2·2 | —1·6 |
| Kabul | +0·5 | —2·2 | —0·9 |
| Cherat | —1·7 | —0·8 | —1·3 |
| Murree | —2·8 | —1·8 | —2·3 |
| Gilgit | +0·2 | —0·9 | —0·3 |
| Kashgar | +3·0 | —0·4 | +1·3 |
| Srinagar | —0·5 | +0·2 | —0·1 |
| Kailang | +1·0 | +0·1 | +0·5 |
| Simla | 0 | —0·5 | —0·3 |
| Leh | +1·4 | +0·1 | +0·7 |
| Chakrata | +1·1 | 0 | +0·5 |
| Darjeeling | +1·4 | +0·5 | +0·9 |

**III.—The south-west monsoon period.**—The monsoon rains were on the whole very satisfactory. They began from 9 to 17 days before their normal date in northeast India and the United Provinces, and at the usual time on the Malabar and Konkan coasts. The Arabian Sea current failed however to advance inland in the usual manner, with the result that the complete establishment of the monsoon in the central parts of the country did not occur until nearly the end of June. Strongly marked monsoon conditions obtained over

the greater part of the country until the second week of September except between the 10th and 19th of August when there was an almost complete break. The final withdrawal of the currents began in upper India on the 11th September, within a few days of the normal date.

Owing to excess of rainfall temperature was below the normal in most parts of the country. The departures from normal were however neither uniform nor marked except in the region comprising the Punjab, the North-West Frontier Province, Rajputana and the United Provinces. As usual during periods of excessive rainfall the day temperature was more affected than the night temperature.

TABLE 26.

| Division. | Departure from normal of period, June to September. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Burma | −0·4 | +0·3 | −0·1 |
| Eastern Bengal and Assam | +0·3 | +0·3 | +0·3 |
| Bengal | −1·1 | −0·5 | −0·8 |
| United Provinces | −1·9 | −1·1 | −1·5 |
| Punjab | −2·5 | −0·3 | −1·5 |
| North-West Frontier Province | −2·0 | −0·2 | −1·2 |
| Sind | −0·3 | +0·2 | 0 |
| Rajputana | −3·1 | −1·7 | −2·4 |
| Bombay | −1·0 | −0·5 | −0·7 |
| Central India | −1·5 | −0·2 | −0·9 |
| Central Provinces | −0·7 | −0·5 | −0·6 |
| Hyderabad | −1·3 | −0·3 | −0·8 |
| Mysore | −1·1 | −0·1 | −0·7 |
| Madras | −1·0 | −0·3 | −0·6 |

The temperature conditions in Baluchistan and the north-west Himalayas were similar in their general character to those of the plains of upper India. In Afghanistan temperature on the other hand was inclined to be in excess.

TABLE 27.

| Station. | Departure from normal of period, June to September. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Baghdad | +2·4 | +1·1 | +1·7 |
| Bushire | 0 | +0·5 | +0·3 |
| Tehran | +0·5 | −0·6 | −0·1 |
| Ispahan | +1·7 | +1·5 | −0·1 |
| Jask | −0·8 | −0·2 | −0·5 |
| Chaman | −0·8 | −2·4 | −1·6 |
| Quetta | +2·0 | −0·5 | +0·7 |
| Kabul | +1·0 | +0·5 | +0·7 |
| Cherat | −2·5 | −1·3 | −1·9 |
| Murree | −2·7 | −1·1 | −1·9 |
| Gilgit | −2·0 | −2·9 | −2·5 |
| Kashgar | +0·5 | −0·5 | 0 |
| Srinagar | −1·7 | +0·8 | −0·5 |
| Kailang | +0·6 | +0·9 | +0·7 |
| Simla | −1·9 | −0·6 | −1·3 |
| Leh | −1·3 | +1·1 | −0·1 |
| Chakrata | −0·2 | −0·3 | −0·3 |
| Darjeeling | +1·3 | +0·5 | +0·9 |

**IV.—The retreating southwest monsoon period.**—The autumnal rains were very weak in the peninsula, and unusually heavy in Burma and Eastern Bengal and Assam. The final withdrawal of the monsoon current from the Bay occurred on the 7th December, a week before the usual date.

Two disturbances of a somewhat peculiar character affected the weather in northwest and central India during the last eighteen days of December, causing widespread and in places heavy rainfall. Considerably more than the usual amount of snow fell in this disturbed period in Baluchistan and the north-west Himalayas but as there had previously been no extensive heavy falls, such as are the precursors of a severe winter, the snowfall conditions of the period as a whole were by no means unusual.

(*a*) Temperature on the mean of the three months, October to December, ranged more or less above the normal over the whole of the country excluding Rajputana, but the excess only reached 2° in the day in Hyderabad and Mysore, and in the night in the Punjab, the North-West Frontier Province and Sind.

TABLE 28.

| Division. | Departure from normal of period, October to December. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Burma | −1·1 | +1·4 | +0·2 |
| Eastern Bengal and Assam | +0·5 | +1·6 | +1·1 |
| Bengal | +0·8 | +0·5 | +0·7 |
| United Provinces | +0·9 | +0·2 | +0·5 |
| Punjab | −0·7 | +2·1 | +0·6 |
| North-West Frontier Province | −0·8 | +2·5 | +0·9 |
| Sind | +0·4 | +2·6 | +1·5 |
| Rajputana | −0·9 | −0·3 | −0·6 |
| Bombay | +0·1 | +0·1 | +0·1 |
| Central India | +1·2 | +0·3 | +0·8 |
| Central Provinces | +0·8 | 0 | +0·4 |
| Hyderabad | +2·0 | +0·7 | +1·4 |
| Mysore | +2·3 | +0·9 | +1·6 |
| Madras | +1·9 | +0·9 | +1·5 |

(*b*) Temperature was also excessive in the Himalayas, Afghanistan, Baluchistan and Persia, an indication that the winter conditions there were yet feebly marked.

TABLE 29.

| Station. | Departure from normal of period, October to December. | | |
|---|---|---|---|
| | Maximum temperature. | Minimum temperature. | Mean temperature. |
| | ° | ° | ° |
| Baghdad | +1·3 | +3·7 | +2·5 |
| Bushire | −0·2 | +0·8 | +0·3 |
| Tehran | +4·2 | +3·1 | +3·7 |
| Ispahan | +2·4 | +3·4 | +2·9 |
| Jask | −0·5 | +1·0 | +0·3 |
| Chaman | +1·7 | −0·3 | +0·7 |
| Quetta | +2·3 | 0 | +1·1 |
| Kabul | +2·8 | −0·4 | +1·2 |
| Cherat | +0·3 | +0·9 | +0·6 |
| Murree | −0·9 | +2·0 | +0·5 |
| Gilgit | +2·4 | −1·0 | +0·7 |
| Kashgar | +5·3 | +2·3 | +3·8 |
| Srinagar | −0·3 | +2·2 | +0·9 |
| Kailang | +1·9 | −0·4 | +0·5 |
| Simla | +1·2 | +0·5 | +0·9 |
| Leh | +2·6 | 0 | +1·3 |
| Chakrata | +2·9 | +0·2 | +1·5 |
| Darjeeling | +3·3 | +1·5 | +2·4 |

**The year.**—1909, like the two years preceding it, was cooler than usual. The lowness occurred almost entirely in northern and central India and was the result chiefly of a defect of day temperature. The defect was not common to all the months of the year, temperature being more or less in excess in January, March and the three final months. The greatest excess was in November, after and coincident with the remarkably dry weather; while the largest deficiency was recorded in April, June and July, all of which were characterized by excessive precipitation.

The table below giving the mean departure and the progressive change of the mean temperature of the past 20 years shows that the fall of temperature which began in 1907 still continues.

TABLE 30.

| Year. | Number of stations. | Mean departure. | Progressive change. |
|---|---|---|---|
| | | ° | ° |
| 1890 | 85 | +0·13 | +0·72 |
| 1891 | 72 | −0·03 | −0·16 |
| 1892 | 74 | +0·66 | +0·69 |
| 1893 | 68 | −1·33 | −1·99 |
| 1894 | 66 | +0·11 | +1·44 |

| Year. | Number of stations. | Mean departure. | Progressive change. |
|---|---|---|---|
| | | ° | ° |
| 1895 | 69 | +0·35 | +0·24 |
| 1896 | 67 | +1·30 | +0·95 |
| 1897 | 75 | +0·90 | —0·40 |
| 1898 | 75 | +0·65 | —0·25 |
| 1899 | 52 | +0·78 | +0·13 |
| 1900 | 50 | +1·17 | +0·39 |
| 1901 | 50 | +0·63 | —0·54 |
| 1902 | 49 | +1·06 | +0·43 |
| 1903 | 46 | +0·18 | —0·88 |
| 1904 | 46 | —0·03 | —0·21 |
| 1905 | 46 | —0·42 | —0·33 |
| 1906 | 45 | +0·33 | +0·75 |
| 1907 | 23 | —0·08 | —0·41 |
| 1908 | 157 | —0·19 | —0·11 |
| 1909 | 137 | —0·32 | —0·13 |

The temperature departure for 1908 and 1909 has been derived from the data of first, second and third class stations in Table B, while in previous years it has been derived only from first and second class stations.

## 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 1909.

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," Vol. XVII. The departure data in the Monthly Reviews for the year 1909 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 1909 are given in Table 31. The figures in the seventh and eighth columns of Table A appended to the pressent 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 Summaries.

In the ninth column of Table A in each Monthly Review the mean pressures reduced to sea level and corrected to constant gravity (Lat. 45°) are given. 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 hrs. local time. The fourth column in that table gives the mean 8 hrs. pressures for the month corrected for temperature. In the fifth column are given the departures of these mean 8 hrs. pressures from the normal pressures.

TABLE 31.—*Departure from normal of monthly and annual mean pressure of first and second class stations in 1909.*

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | " | " | " | " | " | " | " | " | " | " | " | " | " |
| Burma | Rangoon | —·041 | —·025 | —·019 | +·004 | —·002 | +·003 | —·016 | +·032 | —·046 | —·039 | —·028 | +·003 | —·015 |
| Bengal | Calcutta | —·048 | +·006 | —·021 | +·041 | —·009 | +·002 | —·026 | +·072 | —·027 | —·045 | —·045 | —·005 | —·009 |
| United Provinces of Agra and Oudh. | Allahabad | —·037 | +·020 | +·011 | +·029 | —·004 | +·005 | —·012 | +·063 | —·010 | —·034 | —·027 | +·003 | +·001 |
| | Dehra Dun | —·035 | +·008 | —·001 | +·002 | —·026 | —·013 | —·024 | +·024 | —·031 | —·045 | —·031 | —·003 | —·015 |
| Punjab | Lahore | —·014 | +·008 | +·024 | +·022 | —·002 | —·019 | +·012 | +·034 | —·005 | —·034 | —·044 | —·001 | —·002 |
| Rajputana | Jaipur | —·024 | +·014 | +·021 | —·009 | +·011 | —·030 | —·018 | +·049 | —·015 | —·010 | —·025 | —·005 | —·003 |
| Bombay | Bombay | —·030 | —·016 | —·017 | +·003 | —·010 | —·015 | —·010 | +·032 | —·016 | +·005 | —·016 | —·023 | —·009 |
| Central Provinces | Nagpur | —·041 | +·001 | +·009 | +·010 | +·006 | —·018 | —·009 | +·031 | 0 | +·002 | —·012 | —·010 | 0 |
| Hyderabad | Hyderabad | —·039 | —·012 | —·002 | —·011 | —·004 | —·013 | —·003 | +·040 | —·011 | —·005 | —·011 | ·027 | —·008 |
| Mysore | Bangalore | —·042 | —·024 | —·013 | —·007 | —·010 | —·020 | —·002 | +·002 | —·022 | —·015 | —·010 | —·018 | —·015 |
| | Mysore | —·046 | —·015 | —·010 | —·009 | —·013 | —·008 | +·010 | —·001 | —·015 | —·016 | —·018 | —·027 | —·013 |
| Madras | Madras | —·041 | —·018 | —·005 | —·006 | —·017 | —·009 | +·003 | +·013 | —·020 | —·015 | —·019 | —·020 | —·013 |
| Bay Island | Port Blair | —·019 | —·025 | —·015 | —·001 | ·016 | 0 | —·008 | +·028 | —·036 | —·028 | —·018 | +·004 | —·011 |
| Kashmir | Srinagar | —·037 | +·033 | +·036 | —·038 | ·007 | —·034 | +·004 | +·018 | +·019 | +·006 | —·026 | —·024 | —·004 |
| | Leh | —·081 | +·020 | +·003 | —·033 | —·022 | —·048 | —·011 | +·013 | —·014 | —·003 | +·045 | —·035 | —·014 |
| Baluchistan | Quetta | —·043 | —·006 | +·023 | —·031 | 0 | —·037 | —·018 | —·003 | —·015 | —·017 | ·014 | —·025 | —·015 |
| Hill stations excluding Kashmir and Baluchistan. | Simla | —·031 | +·019 | +·023 | —·008 | +·014 | —·011 | +·011 | +·034 | —·007 | —·013 | +·006 | ·008 | +·002 |
| | Chakrata | —·020 | +·032 | +·022 | —·010 | +·018 | —·003 | +·024 | +·053 | +·024 | —·025 | 0 | —·017 | +·008 |
| | Katmandu | —·034 | +·023 | —·008 | +·039 | +·001 | 0 | +·018 | +·038 | —·001 | —·012 | +·004 | +·031 | +·008 |
| | Pachmarhi | —·038 | —·011 | +·004 | —·020 | —·001 | —·023 | —·023 | +·051 | —·020 | —·010 | —·009 | —·010 | —·009 |
| | Mount Abu | —·037 | —·004 | +·013 | —·041 | +·007 | —·027 | —·035 | +·024 | —·030 | —·008 | —·006 | —·040 | —·015 |
| | Chikalda | —·077 | —·034 | —·014 | —·032 | —·006 | —·028 | —·027 | +·034 | —·035 | —·016 | —·031 | —·068 | —·028 |
| Extra India | Zanzibar | —·013 | +·002 | —·008 | +·005 | +·013 | +·001 | +·004 | —·001 | —·009 | +·025 | +·020 | +·008 | +·004 |
| | Seychelles | —·009 | +·001 | —·003 | —·015 | —·001 | +·014 | —·020 | +·005 | +·004 | +·031 | +·037 | —·009 | +·003 |
| | Mauritius | —·007 | —·018 | —·077 | —·011 | —·008 | —·034 | —·009 | —·024 | —·007 | +·024 | +·003 | +·032 | —·011 |

TABLE 32.—*Departure of the mean monthly pressure from the normal in the fourteen chief political divisions of India in 1909.*

| Division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | " | " | " | " | " | " | " | " | " | " | " | " | " |
| Burma | —·033 | —·015 | —·016 | +·013 | —·009 | +·002 | —·014 | +·030 | —·038 | —·046 | —·019 | +·008 | —·012 |
| Eastern Bengal and Assam | —·038 | +·016 | —·022 | +·054 | —·005 | —·005 | —·007 | +·054 | —·027 | —·051 | —·029 | —·001 | —·005 |
| Bengal | —·043 | +·016 | —·007 | +·048 | —·006 | —·009 | —·019 | +·071 | —·019 | —·040 | —·026 | —·001 | —·003 |
| United Provinces | —·038 | +·025 | +·005 | +·031 | —·001 | —·002 | —·009 | +·054 | —·010 | —·032 | —·031 | +·005 | 0 |
| Punjab | —·010 | +·034 | +·029 | +·025 | +·004 | —·006 | +·010 | +·045 | —·004 | —·028 | —·034 | +·014 | +·007 |
| North-West Frontier Province | —·017 | +·010 | +·015 | —·001 | —·001 | —·018 | +·017 | +·029 | —·009 | —·041 | —·047 | —·003 | —·005 |
| Sind | —·006 | +·019 | +·029 | —·014 | +·038 | —·027 | —·011 | +·040 | —·001 | —·001 | —·041 | 0 | +·002 |
| Rajputana | —·022 | +·027 | +·023 | —·009 | +·017 | —·025 | —·019 | +·049 | —·011 | 0 | —·023 | —·004 | 0 |
| Bombay | —·031 | —·005 | —·008 | —·004 | +·003 | —·015 | —·013 | +·036 | —·012 | +·003 | —·008 | —·025 | —·007 |
| Central India | —·034 | +·011 | +·004 | —·004 | +·004 | —·021 | —·026 | +·048 | —·005 | —·013 | —·019 | —·017 | —·006 |
| Central Provinces | —·044 | +·004 | +·004 | +·004 | +·001 | —·015 | —·016 | +·063 | —·003 | —·004 | —·009 | —·019 | —·003 |
| Hyderabad | —·038 | —·002 | —·004 | +·003 | —·007 | —·010 | —·009 | +·030 | —·017 | —·013 | —·023 | —·037 | —·011 |
| Mysore | —·041 | —·011 | —·006 | —·002 | —·013 | +·002 | —·003 | +·012 | —·010 | —·007 | —·004 | —·016 | —·008 |
| Madras | —·038 | —·005 | —·004 | +·002 | —·011 | 0 | +·005 | +·021 | —·014 | —·012 | —·003 | —·015 | —·006 |
| Mean of India when the size of the above areas is taken into account. | —·032 | +·009 | +·001 | +·013 | 0 | —·010 | —·010 | +·044 | —·014 | —·021 | —·020 | —·008 | —·004 |

## I.—The cold weather period.

(*a*) Atmospheric pressure in the Indian land region was largely below the average in January, and in slight excess in February. These departures were apparently not due to the abnormalities of temperature in the lower atmosphere, for in both months temperature in the plains differed but little from the normal.

TABLE 33.

| Month. | Departure from normal. | |
|---|---|---|
| | 8 hrs. pressure. | Mean temperature. |
| | " | ° |
| January | —·032 | +0·4 |
| February | +·009 | —0·2 |

(*b*) The low pressure of January extended far beyond the limits of India, and was therefore caused by general rather than local actions.

TABLE 34.

| Station. | Departure of pressure from normal. | | |
|---|---|---|---|
| | January. | February. | Period, January and February. |
| | " | " | " |
| Mauritius | —·007 | —·018 | —·013 |
| Seychelles | —·009 | +·001 | —·004 |
| Zanzibar | —·017 | +·002 | —·007 |
| Aden | —·007 | +·008 | +·001 |
| Perim | —·041 | —·024 | —·033 |
| Baghdad | +·001 | —·016 | —·023 |
| Bushire | —·051 | —·061 | —·056 |
| Jask | —·026 | —·005 | —·015 |
| Muscat | —·025 | —·012 | —·019 |

(*c*) Pressure was locally in excess throughout the period in the usual region of the winter rains in northern India and in defect in the peninsula. These peculiarities were however feebly marked.

TABLE 35.

| Division. | Excess of pressure departure over geographical mean for India. | | |
|---|---|---|---|
| | January. | February. | Period, January and February. |
| | " | " | " |
| Burma | —·001 | —·024 | —·013 |
| Eastern Bengal and Assam | —·006 | +·007 | +·001 |
| Bengal | —·011 | +·007 | —·002 |
| United Provinces | —·006 | +·016 | +·005 |
| Punjab | +·022 | +·025 | +·023 |
| North-West Frontier Province | +·015 | +·001 | +·008 |
| Sind | +·026 | +·010 | +·018 |
| Rajputana | +·010 | +·018 | +·014 |
| Bombay | +·001 | —·014 | —·007 |
| Central India | —·002 | +·002 | 0 |
| Central Provinces | —·012 | —·005 | —·009 |
| Hyderabad | —·006 | —·011 | —·009 |
| Mysore | —·009 | —·020 | —·015 |
| Madras | —·006 | —·014 | —·010 |

(*d*) Contrary to the usual rule the vertical gradient in northwest India was on the whole stronger than usual in the dry month of January, and was normal in February during which month the precipitation over the greater part of the plains of northern India was in defect.

TABLE 36.

| Pair of stations. | Departure from normal of vertical pressure differences. | | |
|---|---|---|---|
| | January. | February. | Period, January and February. |
| | " | " | " |
| Lahore and Leh | +·077 | —·009? | +·034? |
| Jacobabad and Quetta | +·016 | +·001 | +·009 |
| Peshawar and Murree | +·020 | —·009 | +·005 |
| Ludhiana and Simla | +·037? | +·032? | +·035? |
| Roorkee and Chakrata | —·006? | +·004 | —·001? |
| Deesa and Mount Abu | +·012 | —·001 | +·005 |
| Khandwa and Pachmarhi | —·015 | —·012 | —·013 |
| Madura and Kodaikanal | +·016 | +·037 | +·027 |

**II.—The hot weather period.**—Pressure, like temperature, agreed with the normal in the terminal months of the period, but was ·013″ in excess in April which was characterized by a marked lowness of temperature.

TABLE 37.

| Month. | Departure from normal of mean 8 hrs. pressure. |
|---|---|
| | ″ |
| March | +·001 |
| April | +·013 |
| May | 0 |

In the Indian Ocean and the regions to the north and west of India pressure tended to vary in the direction opposite to that in India.

TABLE 38.

| Station. | Departure of pressure from normal. | | | |
|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. |
| | ″ | ″ | ″ | ″ |
| Mauritius | —·077 | —·011 | —·008 | —·032 |
| Seychelles | —·003 | —·015 | —·001 | —·006 |
| Zanzibar | —·004 | 0 | +·008 | +·001 |
| Aden | +·010 | —·023 | +·013 | 0 |
| Perim | —·016 | —·038 | —·023 | —·026 |
| Baghdad | ? | —·097 | —·026 | ... |
| Bushire | —·040 | —·043 | +·027 | —·019 |
| Jask | —·006 | —·033 | +·016 | —·008 |
| Muscat | +·014 | —·027 | +·047 | +·011 |

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

TABLE 39.

| Division. | Excess of pressure departure over geographical mean for India. | | | |
|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. |
| | ″ | ″ | ″ | ″ |
| Burma | —·017 | 0 | —·009 | —·009 |
| Eastern Bengal and Assam. | —·023 | +·041 | —·005 | +·004 |
| Bengal | —·008 | +·035 | —·006 | +·067 |
| United Provinces | +·004 | +·018 | —·001 | +·007 |
| Punjab | +·028 | +·012 | +·004 | +·015 |
| North-West Frontier Province. | +·014 | —·014 | —·001 | 0 |
| Sind | +·028 | —·027 | +·038 | +·013 |
| Rajputana | +·022 | —·022 | +·017 | +·006 |
| Bombay | —·009 | —·017 | +·003 | —·008 |
| Central India. | +·003 | —·017 | +·004 | —·003 |
| Central Provinces | +·003 | —·009 | +·001 | —·002 |
| Hyderabad | —·005 | —·010 | —·007 | —·007 |
| Mysore | —·007 | —·015 | —·013 | —·012 |
| Madras | —·005 | —·011 | —·011 | —·009 |

The vertical gradient over northern India was steeper than usual in April and very nearly normal in the other two months. There was on the whole a fair agreement between the general character of the weather and the vertical distribution of pressure.

TABLE 40.

| Pair of stations. | Departure from normal of vertical pressure differences. | | | |
|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. |
| | ″ | ″ | ″ | ″ |
| Lahore and Leh | +·007 | +·050 | +·004 | +·020 |
| Jacobabad and Quetta | —·009 | +·004 | +·009 | +·001 |
| Peshawar and Murree | —·001 | —·012 | +·010 | —·001 |
| Ludhiana and Simla | +·017 | +·056 | +·007 | +·027 |
| Roorkee and Chakrata | —·009? | +·045 | —·007 | +·010? |
| Deesa and Mount Abu | —·020 | +·019 | +·003 | +·001 |
| Khandwa and Pachmarhi | —·016 | +·013 | —·008 | —·004 |
| Madura and Kodaikanal | +·028 | +·038 | +·034 | +·033 |

**III.—The southwest monsoon period.**—Except in August when it was as much as ·044″ in excess, pressure ruled slightly below the normal throughout the period. These variations in the density of the air at the earth's surface evidently were not related directly to the abnormalities of temperature as recorded in the lowest stratum of the atmosphere.

TABLE 41.

| Month. | Departure from normal of mean 8-hrs. pressure. |
|---|---|
| | " |
| June | —·010 |
| July | —·010 |
| August | +·044 |
| September | —·014 |

Similar conditions obtained in Persia, and, except in August, in the south of the Indian Ocean as represented by Mauritius.

TABLE 42.

| Station. | Departure of pressure from normal. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| | " | " | " | " | " |
| Mauritius | —·034 | —·009 | —·024 | —·007 | —·019 |
| Seychelles | +·014 | —·020 | +·005 | +·004 | +·001 |
| Zanzibar | —·005 | —·009 | —·008 | —·012 | —·009 |
| Aden | +·023 | —·001 | +·005 | 0 | +·007 |
| Perim | —·026 | —·047 | —·038 | —·031 | —·035 |
| Baghdad | —·033 | —·043 | —·018 | —·021 | —·029 |
| Bushire | —·024 | —·022 | +·013 | —·010 | —·011 |
| Jask | —·035 | —·031 | +·014 | —·029 | —·020 |
| Muscat | —·016 | —·019 | +·025 | —·012 | —·005 |

The general pressure conditions in the Indian monsoon region were thus such as are associated with a good monsoon in India.

The axis of the monsoon trough of low pressure lay slightly to the south of its usual position during June and July and to its north during August; but in other respects the local distribution of pressure differed to no important extent from the average.

TABLE 43.

| Division. | Excess of pressure departure over geographical mean of India. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| | " | " | " | " | " |
| Burma | +·012 | —·004 | —·014 | —·024 | —·007 |
| Eastern Bengal and Assam. | +·005 | +·003 | +·010 | —·013 | +·001 |
| Bengal | +·001 | —·009 | +·027 | —·005 | +·003 |
| United Provinces | +·008 | +·001 | +·010 | +·004 | +·006 |
| Punjab | +·004 | +·020 | +·001 | +·010 | +·009 |
| North-West Frontier Province. | —·008 | +·027 | —·015 | +·005 | +·002 |
| Sind | —·017 | —·001 | —·004 | +·013 | —·002 |
| Rajputana | —·015 | —·009 | +·005 | +·003 | —·004 |
| Bombay | —·005 | —·003 | —·008 | +·002 | —·003 |
| Central India | —·011 | —·016 | +·004 | +·009 | —·003 |
| Central Provinces | —·005 | —·006 | +·019 | +·011 | +·005 |
| Hyderabad | 0 | +·001 | —·014 | —·003 | —·004 |
| Mysore | +·012 | +·007 | —·032 | +·004 | —·002 |
| Madras | +·010 | +·015 | —·023 | 0 | +·001 |

There was on the mean of the period a defect of pressure at the level of the hill stations, relatively to the plains, particularly in southern India.

TABLE 44.

| Pair of stations. | Departure from normal of vertical pressure differences. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| | " | " | " | " | " |
| Lahore and Leh | +·020 | +·023 | +·007 | +·001 | +·013 |
| Jacobabad and Quetta. | —·017 | —·015 | +·003 | +·001 | —·007 |
| Peshawar and Murree. | —·009 | +·018 | +·039 | —·003 | +·011 |
| Ludhiana and Simla | +·028? | +·020 | +·016 | —·011 | +·013? |
| Roorkee and Chakrata. | +·016 | —·020 | +·004 | —·025? | —·006? |
| Deesa and Mount | —·010 | +·006 | +·017 | +·010 | +·006 |
| Khandwa and Pachmarhi. | —·007 | —·007 | —·003 | —·001 | —·005 |
| Madura and Kodaikanal. | +·048 | +·032 | +·018 | +·042 | +·035 |

**IV.—The retreating southwest monsoon period.**—Pressure was in defect throughout the period by amounts averaging ·016″.

TABLE 45.

| Month. | Departure from normal of mean 8-hrs. pressure. |
|---|---|
| | ″ |
| October | —·021 |
| November | —·020 |
| December | —·008 |

The defect of pressure extended westwards to Persia and towards the end of the period also to Arabia, but in the Indian Ocean the barometer stood higher than usual in all the months.

TABLE 46.

| STATION. | DEPARTURE OF PRESSURE FROM NORMAL. | | | |
|---|---|---|---|---|
| | October. | November. | December. | Period, October to December. |
| | ″ | ″ | ″ | ″ |
| Mauritius | +·024 | +·003 | +·032 | +·020 |
| Seychelles | +·031 | +·037 | —·009 | +·020 |
| Zanzibar | +·020 | +·021 | +·005 | +·015 |
| Aden | +·001 | +·015 | —·028 | —·004 |
| Perim | —·034 | —·033 | —·058 | —·012 |
| Baghdad | +·024 | +·001 | —·023 | +·001 |
| Bushire | —·029 | —·045 | —·058 | —·044 |
| Jask | —·025 | —·069 | —·065 | —·053 |
| Muscat | —·020 | —·039 | —·038 | —·032 |

In the local distribution the only noteworthy features were a deficiency of pressure in October and November and an excess in December in Burma and northeast India, relatively to the peninsula.

TABLE 47.

| DIVISION. | EXCESS OF PRESSURE DEPARTURE OVER GEOGRAPHICAL MEAN FOR INDIA. | | | |
|---|---|---|---|---|
| | October. | November. | December. | Period, October to December. |
| | ″ | ″ | ″ | ″ |
| Burma | —·025 | +·001 | +·011 | —·004 |
| Eastern Bengal and Assam | —·030 | —·009 | +·007 | —·011 |
| Bengal | —·019 | —·006 | +·007 | —·006 |
| United Provinces | —·011 | —·011 | +·013 | —·003 |
| Punjab | —·007 | —·014 | +·022 | 0 |
| North-West Frontier Province | —·020 | —·027 | +·005 | —·014 |
| Sind | +·020 | —·021 | +·008 | +·002 |
| Rajputana | +·021 | —·003 | +·004 | +·007 |
| Bombay | +·024 | +·012 | —·017 | +·006 |
| Central India | +·008 | +·001 | —·009 | 0 |
| Central Provinces | +·017 | +·011 | —·011 | +·006 |
| Hyderabad | +·008 | —·003 | —·029 | —·008 |
| Mysore | +·014 | +·016 | —·008 | +·007 |
| Madras | +·009 | +·017 | —·007 | +·006 |

The vertical gradient in northern India was on the mean of the period weaker than usual, though there was a marked tendency to a change in the opposite direction in December.

TABLE 48.

| PAIR OF STATIONS. | DEPARTURE FROM NORMAL OF VERTICAL PRESSURE DIFFERENCES. | | | |
|---|---|---|---|---|
| | October | November | December | Period, October to December. |
| | ″ | ″ | ″ | ″ |
| Lahore and Leh | —·033 | —·091 | +·036 | —·029 |
| Jacobabad and Quetta | —·014? | —·057 | +·032 | —·012? |
| Peshawar and Murree | —·018 | —·034 | —·010 | —·021 |
| Ludhiana and Simla | —·012 | —·034 | —·024 | —·023 |
| Roorkee and Chakrata | —·008 | —·015? | —·033 | —·019 |
| Deesa and Mount Abu | +·015 | —·010 | +·015 | +·007 |
| Khandwa and Pachmarhi | +·004 | —·017 | —·012 | —·008 |
| Madura and Kodaikanal | +·026 | +·038 | +·029 | +·031 |

**The year**—The pressure conditions were considerably more steady in this than in the previous year: thus the monthly value was normal or almost so in March and May, in excess in February, April and August and in defect in all other months. The deficiency was on the whole more decided and prolonged than the opposite variation, and as a result the yearly mean fell short of the average by ·004.″ As temperature was a third of a degree lower than usual it is obvious that the low density of the atmosphere was not due to this circumstance.

TABLE 49.

| MONTH. | DEPARTURE FROM NORMAL OF | |
|---|---|---|
| | Pressure | Mean temperature. |
| | " | |
| January | —·032 | +0·4 |
| February | +·009 | —0·2 |
| March | +·001 | +0·5 |
| April | +·013 | —2·5 |
| May | 0 | —0·5 |
| June | —·010 | —1·0 |
| July | —·010 | —1·1 |
| August | +·044 | —0·5 |
| September | —·014 | —0·8 |
| October | —·021 | +0·1 |
| November | —·020 | +1·5 |
| December | —·008 | +0·3 |
| Year | —·004 | —0·3 |

The statement below shows that the low pressure conditions were not peculiar to India :—

TABLE 50.

| Station. | Departure from normal of pressure. |
|---|---|
| | " |
| Mauritius | —·011 |
| Seychelles | +·003 |
| Zanzibar | 0 |
| Aden | +·001 |
| Perim | —·034 |
| Baghdad | —·026 |
| Bushire | —·029 |
| Jask | —·025 |
| Muscat | —·010 |

The defect of pressure was even more marked at and above the level of the hill stations, or in other words the vertical gradient was appreciably above its normal value.

TABLE 51.

| Pair of stations. | Departure from normal of vertical pressure differences. |
|---|---|
| | " |
| Lahore and Leh | +·011 |
| Jacobabad and Quetta | +·015 |
| Peshawar and Murree | +·001 |
| Ludhiana and Simla | +·014 |
| Roorkee and Chakrata | +·001 |
| Deesa and Mount Abu | +·005 |
| Khandwa and Pachmarhi | —·007 |
| Madura and Kodaikanal | +·032 |

Below are given the departures and progressive changes of pressure in the Indian land area during the past 35 years.

TABLE 52.

| YEAR. | Number of stations. | Departure of mean pressure. | Progressive variation. |
|---|---|---|---|
| | | " | " |
| 1875 | 33 | —·007 | ... |
| 1876 | 35 | —·007 | 0 |
| 1877 | 59 | +·032 | +·039 |
| 1878 | 65 | +·002 | —·030 |
| 1879 | 81 | —·014 | —·016 |
| 1880 | 93 | —·003 | +·011 |
| 1881 | 93 | +·002 | +·005 |
| 1882 | 93 | —·010 | —·012 |
| 1883 | 105 | —·005 | +·005 |
| 1884 | 107 | +·010 | +·015 |
| 1885 | 113 | +·014 | +·004 |
| 1886 | 118 | —·003 | —·017 |
| 1887 | 117 | —·006 | —·003 |
| 1888 | 109 | +·011 | +·017 |
| 1889 | 76 | +·004 | —·007 |
| 1890 | 77 | —·009 | —·013 |
| 1891 | 72 | +·010 | +·019 |
| 1892 | 72 | —·022 | —·032 |
| 1893 | 66 | —·001 | +·021 |
| 1894 | 66 | —·012 | —·011 |
| 1895 | 66 | +·003 | +·015 |
| 1896 | 68 | —·001 | —·004 |
| 1897 | 74 | —·005 | —·004 |
| 1898 | 74 | —·018 | —·013 |
| 1899 | 51 | +·004 | +·022 |
| 1900 | 49 | +·010 | +·006 |
| 1901 | 47 | +·005 | —·005 |
| 1902 | 46 | +·011 | +·006 |
| 1903 | 46 | +·001 | —·010 |
| 1904 | 46 | —·003 | —·004 |
| 1905 | 46 | +·009 | +·012 |
| 1906 | 45 | —·002 | —·011 |
| 1907 | 23 | —·003 | —·001 |
| 1908 | 152 | 0 | +·003 |
| 1909 | 136 | —·004 | —·004 |

## STORMS.

Below is given a statement, drawn up in the same form as in previous years, of the cyclonic storms formed in the Bay of Bengal during 1909. The tracks of the storms are given in Plate VI at the end of the Summary.

| No. | Month. | Date. | Greatest observed barometric depression. | Character of storm. | Details of storm. |
|---|---|---|---|---|---|
| 1 | May ... | 3rd and 4th. | Nearly ·2″ | Feeble... | This storm was generated over the southwest of the Bay in front of a temporary advance of the monsoon. It travelled northwestwards towards the Coromandel coast which it crossed near Cuddalore during the 4th. It became considerably reduced in intensity after its passage inland, so that it was hardly traceable as a definite system in the chart of the 5th. The residual depression was however transmitted westwards into the southeast of the Arabian Sea.<br><br>The strongest winds reported by the vessels affected by the disturbance were of force 7. |
| 2 | May . | 12th to 14th. | At least half an inch. | Severe ... | Like the previous storm this also was developed in front of an advance of monsoon winds. It followed a northeasterly course and struck the Burma coast between Diamond Island and Akyab on the night of the 14th, after which it was speedily broken up by the Arakan Yoma.<br><br>The strongest winds caused by it were of force 12. |
| 3 | October | 15th to 18th. | ·85″ | Severe ... | This storm appeared over the north of the Andaman Sea and pursued a curved path, at first northwesterly, then northerly and finally northeasterly: it reached the Sandheads on the 17th; and passed into Eastern Bengal where it completely disappeared on the 19th after having inflicted much injury on life and property, particularly in the Backergunge district where 172 human beings and over 15,000 cattle are reported to have perished.<br><br>Winds of force 10 to 12 were recorded on the Light Vessels. |
| 4 | October | 24th to 27th. | At least 1·5″. | Very severe. | This storm was the severest that has occurred in October in the Bay of Bengal for at least fifteen years. It was generated in the Andaman Sea and after traversing the Bay along a west-northwesterly course struck the north Madras coast immediately to the north of Gopalpur about midnight on the 26th. Winds of destructive violence were felt at the station and caused much damage to property, the loss in the Gopalpur district alone being estimated at about 15 lacs of rupees.<br><br>The storm was rapidly broken up by the high ground to the west of Gopalpur.<br><br>The *Shahzada* which was involved in the inner area experienced a perfect hurricane. |
| 5 | December. | 2nd to 6th. | Over half an inch. | Severe ... | This storm originated over the centre of the Bay to the east of Madras, and travelling along a curved path crossed the coast between Chittagong and Cox's Bazar on the morning of the 6th.<br><br>Winds of hurricane violence were recorded at the Mutla station.<br><br>The path followed by the storm was unique, for storms formed over the Bay in December ordinarily travel either due north or between west and north. |

The Arabian Sea was wholly free from storms throughout the year.

## 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 Reviews of the year 1909 will be found in a collected form in Tables XXII, XXVI and XXVII of Vol. XVII of Indian Meteorological Memoirs. The mean 8 hrs. 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 hrs. and given in Table B in each Monthly Review. As a general rule, the mean 8 hrs. wind directions vary little from the mean wind directions (calculated from the 10 and 16 hrs. 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 Vol. XVII of the departmental Memoirs.

The following is a summary of the more important features of the air movement over India for each period of the year 1909:—

### I.—The cold weather period.

The deviations from normal of the air motion were of no great significance from the standpoint of the weather.

### II.—The hot weather period.

(*a*) In March and April there was on the whole little that was abnormal in the land area of India. In May the direction of movement was abnormally southerly in the east coast of the peninsula and parts of Chota Nagpur and less northerly or more westerly than usual in Central India, the peninsula excepting the east coast, the north of the North-West Frontier Province and at Kabul, these features being the opposite of those which characterize the hot weather movement in years of excessive and late snowfall.

(*b*) In the equatorial region the only important anomalous feature was the appearance at the Seychelles of southeast trades in April, much in advance of their normal date.

(*c*) In the Indian seas a temporary advance of the monsoon occurred during the first fortnight of May and resulted in the formation of two storms in the Bay of Bengal.

### III.—The south-west monsoon period.

(*a*) The air motion was neither so steady nor so strong as usual over the greater part of the region usually dominated by the Bay current, and its direction over the greater part of northeast India was more than usually easterly in June and July and southerly in August and September. Similar deflections from the normal course of movement were recorded in the United Provinces and the southeast Punjab.

TABLE 53.

| Station. | WIND DIRECTION. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | JUNE. | | JULY. | | AUGUST. | | SEPTEMBER. | |
| | Actual. | Normal. | Actual. | Normal. | Actual. | Normal. | Actual. | Normal. |
| | ° | ° | ° | ° | ° | ° | ° | ° |
| Barisal | S 24 E | S 17 E | S 31 E | S 14 E | S 7 W | S 17 E | S 2 W | S 27 E |
| Narayanganj | S 39 E | S 32 E | S 46 E | S 27 E | S 30 W | S 32 E | S 9 W | S 18 E |
| Mymensingh | S 45 E | S 61 E | S 60 E | S 49 E | S 29 E | S 56 E | S 42 E | S 63 E |
| Bogra | S 57 E | S 66 E | E | S 48 E | S 42 E | S 55 E | S 34 E | S 49 E |
| Calcutta | S 9 E | S 4 E | S 26 E | S 3 W | S 16 W | S 18 E | S 11 W | S 13 E |
| Burdwan | S 10 E | S 4 E | S 68 E | S 3 E | S 58 W | S 32 E | S 10 W | S 18 E |
| Berhampore | S 39 E | S 36 E | S 56 E | S 25 E | S 14 W | S 79 E | S 40 E | S 19 E |
| Purnea | N 50 E | N 84 E | S 86 E | S 81 E | S 72 E | S 89 E | S 58 E | N 88 E |
| Darbhanga | S 87 E | S 75 E | S 84 E | S 80 E | S 23 E | S 74 E | N 77 E | S 76 E |
| Benares | N 84 E | S 89 E | S 34 E | S 7 E | S 32 W | S 54 E | N 83 W | S 31 W |
| Bahraich | S 88 E | S 69 E | S 69 E | S 68 E | S 66 E | S 70 E | S 22 E | S 68 E |
| Agra | S 72 E | S 16 W | S 59 E | S 24 W | S 11 W | S 40 W | S 28 W | S 5 W |
| Bareilly | S 80 E | S 56 E | S 81 E | S 47 E | S 26 W | S 71 E | N 69 W | S 56 E |
| Sirsa | S 19 E | S 27 W | S 28 E | S 16 W | S 14 W | S 42 W | S 87 W | S 59 W |
| Ludhiana | S 48 E | S 37 E | S 65 E | S 34 E | S 58 E | S 29 E | S | S 20 E |

These abnormalities would indicate that the field of the Bay current was very extensive during the first half and more circumscribed than usual during the second half of the rainy season.

(*b*) The Bombay monsoon on the whole blew with the usual steadiness, but the rate of the movement was rather below the average. The resultant direction contained an unduly northerly element in Cutch, east Rajputana and the Central Provinces:—

TABLE 54.

| Station. | WIND DIRECTION. | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | JUNE. | | JULY. | | AUGUST. | | SEPTEMBER. | |
| | Actual. | Normal. | Actual. | Normal. | Actual. | Normal. | Actual. | Normal. |
| | ° | ° | ° | ° | ° | ° | ° | ° |
| Jaipur | N 71 W | S 88 W | N 18 E | S 73 W | N 76 W | N 88 W | N 38 W | N 68 W |
| Sambhar | N 73 W | N 89 W | N 28 W | S 87 W | N 78 W | N 84 W | N 71 W | N 86 W |
| Bhuj | S 76 W | S 72 W | N 85 W | S 78 W | S 87 W | S 76 W | N 71 W | N 87 W |
| Khandwa | N 63 W | N 87 W | N 86 W | W | N 77 W | N 86 W | N 55 W | N 79 W |
| Amraoti | N 83 W | S 87 W | N 79 W | S 88 W | N 83 W | N 89 W | N 73 W | S 88 W |
| Pachmarhi | N 85 W | S 81 W | N 85 W | S 85 W | S 89 W | S 87 W | N 71 W | N 85 W |

(c) According to the marine information light unsteady winds were experienced in parts of the equatorial belt during the second and third weeks of June and of August.

## IV.—The retreating south-west monsoon period.

The most noticeable peculiarities of the air circulation over the Indian land region were, first its great steadiness in Sind, Rajputana and Hyderabad, secondly its low rate of movement in the peninsula, and thirdly the comparative absence during November of the usual easterly winds at Port Blair, the last feature being associated with the abnormal weakness of the rains in the peninsula.

In the west of the equatorial belt as represented by Zanzibar the winds were very feeble and contained more than the usual amount of easterly component in their direction.

## Humidity.

The departures from normal of the mean monthly and annual aqueous vapour pressure and relative humidity for the year 1909 are given in Tables 55 and 56. 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 two tables (Tables 57 and 58) give departure data of aqueous vapour pressure and relative humidity for each month of the year and for the year for the fourteen chief political divisions.

TABLE 55.—*Departure of the monthly and annual mean vapour pressure data of 1909 from average of past years.*

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | " | " | " | " | " | " | " | " | " | " | " | " | " |
| BURMA | Rangoon | —·030 | +·003 | +·009 | —·033 | —·001 | —·014 | —·019 | —·011 | —·017 | —·016 | +·010 | —·034 | —·013 |
| BENGAL | Calcutta | +·011 | —·019 | —·118 | —·029 | +·032 | —·004 | —·019 | —·019 | —·003 | +·006 | +·030 | +·033 | —·008 |
| UNITED PROVINCES OF AGRA AND OUDH. | Allahabad | —·041 | —·016 | —·163 | +·069 | —·147 | +·114 | +·013 | —·078 | —·006 | —·129 | —·028 | +·014 | —·035 |
| | Dehra Dun | —·015 | —·032 | —·056 | +·045 | —·048 | +·087 | +·021 | —·001 | +·035 | +·009 | +·023 | +·025 | +·008 |
| PUNJAB | Lahore | —·022 | —·014 | —·012 | +·102 | —·039 | +·138 | +·075 | +·031 | +·067 | +·044 | +·073 | +·034 | +·037 |
| RAJPUTANA | Jaipur | —·020 | —·051 | —·069 | +·120 | —·024 | +·113 | +·075 | —·026 | +·039 | —·013 | +·003 | +·038 | +·015 |
| BOMBAY | Bombay | —·017 | —·001 | —·038 | —·027 | +·004 | +·004 | —·014 | —·002 | —·005 | —·024 | —·003 | +·045 | —·007 |
| CENTRAL PROVINCES | Nagpur | +·042 | +·002 | —·024 | +·119 | +·046 | +·039 | —·013 | —·012 | —·032 | —·092 | —·064 | +·113 | +·010 |
| HYDERABAD | Hyderabad | —·020 | —·031 | —·142 | —·050 | —·058 | —·025 | —·022 | +·004 | —·055 | —·166 | —·130 | +·026 | —·056 |
| MYSORE | Bangalore | +·013 | —·020 | —·106 | —·002 | +·015 | —·028 | —·014 | +·040 | +·004 | —·021 | —·023 | +·003 | —·012 |
| | Mysore | +·010 | —·034 | —·073 | —·056 | +·006 | —·014 | —·016 | +·010 | —·012 | —·017 | +·034 | +·038 | —·012 |
| MADRAS | Madras | +·038 | +·041 | +·013 | +·026 | +·036 | —·005 | +·037 | +·083 | +·067 | +·035 | —·001 | +·022 | +·033 |
| BAY ISLANDS | Port Blair | —·030 | +·015 | —·030 | —·013 | —·044 | —·039 | —·039 | —·041 | —·037 | —·039 | —·078 | —·057 | —·039 |
| KASHMIR | Srinagar | —·034 | —·044 | —·025 | +·020 | +·003 | +·039 | —·042 | +·020 | —·048 | +·013 | +·036 | 0 | —·005 |
| | Leh | —·011 | —·003 | —·007 | —·007 | —·016 | +·012 | +·050 | +·042 | +·022 | —·003 | —·004 | —·007 | +·006 |
| BALUCHISTAN | Quetta | —·019 | —·008 | —·046 | —·028 | —·085 | —·088 | ? | —·066 | —·065 | —·024 | —·027 | —·013 | ? |
| HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN. | Simla | —·008 | —·009 | —·046 | +·005 | —·072 | +·059 | +·001 | —·008 | —·018 | —·017 | +·007 | +·008 | —·008 |
| | Chakrata | —·006 | 0 | —·035 | +·034 | —·027 | +·098 | +·040 | +·018 | +·021 | +·003 | +·017 | +·009 | +·014 |
| | Katmandu | —·046 | —·034 | —·104 | —·019 | —·039 | +·008 | —·009 | —·021 | +·007 | —·008 | +·004 | +·072 | —·016 |
| | Darjeeling | ? | ? | ? | ? | ? | ? | ? | ? | +·003 | —·016 | +·023 | +·012 | ? |
| | Pachmarhi | +·004 | +·018 | —·019 | +·072 | +·012 | +·025 | +·002 | —·015 | —·088 | —·052 | —·032 | +·074 | +·015 |
| | Mount Abu | —·003 | —·023 | —·059 | +·063 | —·012 | +·037 | +·021 | —·004 | +·013 | +·029 | —·007 | +·003 | +·005 |
| | Chikalda | —·003 | +·004 | +·003 | +·033 | +·007 | —·021 | +·012 | +·017 | +·043 | —·011 | —·067 | +·078 | +·008 |
| EXTRA INDIA | Zanzibar | —·030 | —·048 | —·061 | —·035 | —·048 | —·023 | —·021 | —·033 | —·022 | —·033 | —·052 | —·037 | —·037 |
| | Seychelles | —·015 | —·008 | —·032 | 0 | —·047 | —·021 | —·008 | —·051 | —·025 | —·032 | —·034 | 0 | —·023 |
| | Mauritius | —·013 | +·056 | +·015 | —·015 | —·048 | +·039 | +·045 | +·008 | +·012 | —·034 | —·012 | —·032 | +·002 |

TABLE 56.—*Departure of the monthly and annual mean relative humidity data of 1909 from the average of past years.*

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Burma | Rangoon | − 3 | − 3 | 0 | − 6 | + 1 | − 4 | − 2 | − 5 | − 4 | − 3 | + 1 | − 3 | − 3 |
| Bengal | Calcutta | − 8 | − 6 | −16 | + 3 | 0 | + 4 | 0 | − 1 | − 1 | − 3 | − 3 | + 1 | − 3 |
| United Provinces of Agra and Oudh. | Allahabad | −10 | − 9 | −17 | + 11 | −11 | +18 | + 6 | − 6 | − 1 | −12 | − 5 | + 1 | − 3 |
| | Dehra Dun | − 3 | − 3 | −10 | +12 | − 6 | +13 | + 3 | + 3 | 0 | − 3 | − 1 | + 6 | + 1 |
| Punjab | Lahore | − 4 | 0 | − 5 | +14 | − 3 | + 8 | + 7 | − 1 | +13 | + 5 | + 4 | +10 | + 4 |
| Rajputana | Jaipur | − 5 | − 9 | −10 | +15 | − 3 | + 5 | + 8 | 0 | + 5 | − 3 | − 4 | +11 | + 1 |
| Bombay | Bombay | + 2 | + 4 | − 3 | − 1 | − 1 | + 1 | + 2 | − 1 | + 3 | 0 | + 1 | + 7 | + 1 |
| Central Provinces | Nagpur | + 2 | + 1 | − 3 | +18 | + 4 | + 6 | + 2 | − 2 | − 2 | −10 | − 9 | +17 | + 2 |
| Hyderabad | Hyderabad | − 3 | − 2 | −13 | 0 | − 4 | + 2 | + 1 | − 3 | − 7 | −16 | −18 | − 1 | − 5 |
| Mysore | Bangalore | + 1 | − 2 | −11 | + 2 | + 5 | − 4 | 0 | + 2 | + 1 | − 5 | − 7 | − 5 | − 2 |
| | Mysore | + 1 | − 5 | − 6 | − 4 | + 5 | + 1 | + 1 | + 3 | + 1 | − 2 | + 3 | + 5 | 0 |
| Madras | Madras | + 4 | + 2 | + 1 | + 4 | + 5 | 0 | + 1 | +10 | + 7 | − 4 | − 5 | − 4 | + 2 |
| Bay Islands | Port Blair | − 3 | + 3 | + 1 | + 1 | 0 | − 1 | − 1 | − 2 | − 2 | − 1 | 0 | − 3 | − 1 |
| Kashmir | Srinagar | − 8 | − 9 | − 5 | − 1 | − 1 | − 2 | − 4 | − 1 | 0 | − 1 | 0 | − 1 | − 3 |
| | Leh | + 3 | + 2 | − 3 | − 5 | − 5 | − 1 | + 9 | + 8 | + 7 | − 3 | − 7 | − 7 | 0 |
| Baluchistan | Quetta | − 3 | − 2 | − 7 | 0 | − 6 | − 8 | ? | − 6 | − 3 | − 3 | − 6 | + 4 | ? |
| Hill stations excluding Kashmir and Baluchistan. | Simla | + 3 | − 1 | −15 | + 9 | −13 | +17 | + 3 | + 4 | − 1 | − 5 | − 1 | + 9 | + 1 |
| | Chakrata | + 1 | + 1 | −13 | +13 | −11 | +20 | + 5 | + 5 | − 1 | − 5 | 0 | + 8 | + 2 |
| | Katmandu | −10 | − 7 | −18 | + 4 | − 9 | + 2 | − 2 | + 1 | − 1 | − 5 | − 2 | − 1 | − 4 |
| | Darjeeling | ? | ? | ? | ? | ? | ? | ? | ? | − 3 | − 2 | − 4 | + 2 | ? |
| | Pachmarhi | + 1 | + 3 | − 4 | +13 | + 1 | + 7 | + 4 | − 2 | + 3 | − 4 | − 4 | +17 | + 3 |
| | Mount Abu | + 2 | + 1 | − 9 | +14 | − 1 | + 7 | + 5 | + 6 | + 4 | + 5 | − 2 | + 5 | + 3 |
| | Chikalda | − 1 | + 1 | 0 | + 8 | + 2 | − 2 | + 4 | − 1 | + 8 | − 2 | −11 | +23 | + 2 |
| Extra India | Zanzibar | − 2 | − 4 | − 6 | + 1 | − 7 | − 3 | − 4 | − 4 | − 4 | − 2 | − 3 | + 1 | − 3 |
| | Seychelles | − 3 | − 1 | − 5 | − 2 | − 4 | − 3 | − 2 | − 5 | − 5 | − 2 | − 3 | − 3 | − 3 |
| | Mauritius | + 2 | + 4 | + 2 | − 1 | − 1 | + 5 | + 4 | + 1 | + 2 | − 1 | 0 | − 2 | + 1 |

TABLE 57.—*Departure of the mean monthly aqueous vapour pressure from the normal in the fourteen chief political divisions of India in 1909.*

| Division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | " | " | " | " | " | " | " | " | " | " | " | " | " |
| Burma | +·022 | +·020 | −·007 | −·016 | −·011 | −·005 | −·004 | +·013 | +·003 | +·020 | +·052 | +·028 | +·010 |
| Eastern Bengal and Assam | −·010 | −·042 | −·070 | −·066 | −·001 | −·007 | −·002 | −·022 | +·007 | +·011 | +·035 | +·014 | −·013 |
| Bengal | +·012 | −·030 | −·088 | −·024 | −·016 | −·004 | −·008 | −·019 | 0 | −·023 | −·014 | +·032 | −·015 |
| United Provinces | −·017 | −·047 | −·084 | +·095 | −·027 | +·089 | +·035 | −·032 | +·015 | −·040 | +·012 | +·025 | +·002 |
| Punjab | −·021 | −·038 | −·048 | +·049 | −·091 | +·075 | +·048 | −·015 | +·021 | +·028 | +·047 | +·034 | +·007 |
| North-West Frontier Province | −·028 | −·042 | −·055 | +·025 | −·088 | −·009 | +·047 | +·040 | +·003 | +·037 | +·045 | +·016 | −·001 |
| Sind | −·010 | −·021 | −·034 | +·025 | −·125 | +·031 | +·037 | −·035 | −·018 | +·127 | +·154 | +·031 | +·013 |
| Rajputana | −·009 | −·050 | −·042 | +·070 | −·046 | +·011 | +·049 | −·032 | +·023 | +·034 | +·017 | +·021 | +·004 |
| Bombay | +·021 | −·019 | −·019 | −·022 | −·046 | −·032 | −·006 | −·014 | −·009 | −·018 | −·015 | +·036 | −·009 |
| Central India | −·007 | −·024 | −·050 | +·095 | +·022 | +·078 | +·026 | −·029 | +·005 | −·047 | −·037 | +·027 | +·005 |
| Central Provinces | +·012 | −·016 | −·064 | +·065 | +·033 | +·012 | −·015 | −·026 | −·039 | −·070 | −·086 | +·071 | −·010 |
| Hyderabad | +·029 | +·023 | −·063 | −·038 | +·001 | −·032 | −·012 | +·004 | −·041 | −·122 | −·111 | +·057 | −·025 |
| Mysore | +·023 | −·004 | −·054 | −·053 | −·001 | −·012 | −·004 | +·019 | −·002 | −·010 | +·007 | +·032 | −·005 |
| Madras | +·042 | −·004 | −·034 | −·031 | +·011 | −·012 | −·015 | +·026 | −·010 | −·021 | −·020 | +·022 | −·004 |
| Mean of India when the size of the above areas is taken into account. | +·007 | −·020 | −·049 | +·013 | −·022 | +·016 | +·009 | −·012 | −·002 | −·011 | 0 | +·033 | −·003 |

TABLE 58.—*Departure of the mean monthly and annual relative humidity from the normal in the fourteen chief political divisions of India in 1909.*

| Division. | January. | February. | March. | April. | May. | June | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Burma | +3 | +2 | 0 | +1 | 0 | +2 | +1 | +1 | +1 | +3 | +6 | +4 | +2 |
| Eastern Bengal and Assam | −3 | −6 | −11 | −1 | −2 | 0 | −2 | 0 | −3 | −2 | −2 | −2 | −3 |
| Bengal | −3 | −3 | −13 | +6 | −2 | +3 | 0 | −1 | 0 | −3 | −5 | +2 | −2 |
| United Provinces | −6 | −10 | −13 | +15 | −2 | +10 | +5 | −2 | +1 | −6 | −3 | +5 | −1 |
| Punjab | −2 | −4 | −7 | +9 | −7 | +6 | +6 | 0 | +7 | +1 | +4 | +11 | +2 |
| North-West Frontier Province | −6 | −8 | −10 | +2 | −8 | 0 | +6 | +1 | +2 | +1 | +5 | +9 | −1 |
| Sind | −1 | −3 | −5 | +4 | −8 | +3 | +4 | 0 | +1 | +13 | +15 | +8 | +3 |
| Rajputana | +2 | −7 | −6 | +15 | +2 | +1 | +9 | +4 | +8 | +5 | +3 | +11 | +4 |
| Bombay | +2 | −2 | −3 | +1 | −4 | +1 | +2 | 0 | +1 | −1 | −3 | +5 | 0 |
| Central India | −5 | −5 | −8 | +16 | +3 | +9 | +6 | −3 | +5 | −3 | −5 | +7 | +1 |
| Central Provinces | −3 | −4 | −10 | +12 | +2 | +2 | +1 | −6 | −1 | −7 | −11 | +11 | −1 |
| Hyderabad | −1 | −1 | −11 | 0 | −2 | +3 | +4 | +1 | −2 | −12 | −16 | +4 | −3 |
| Mysore | +3 | −1 | −5 | −4 | +4 | −1 | +3 | +4 | +3 | −1 | −1 | +3 | +1 |
| Madras | +3 | 0 | −1 | −1 | +2 | 0 | 0 | +4 | 0 | −4 | −5 | 0 | 0 |
| Mean of India when the size of the above areas is taken into account. | −1 | −3 | −7 | +6 | −1 | +3 | +3 | 0 | +1 | −2 | −2 | +5 | 0 |

## I.—The cold weather period.

(*a*) The hygrometric conditions during this period did not differ greatly from the normal. Aqueous vapour was in slight excess in Burma and the greater part of the peninsula, and about the average or somewhat below it in northern and central India. The relative humidity of the air was also similarly distributed.

TABLE 59.

| Division. | Departure of mean 8 hrs. vapour pressure from normal. | | | Departure of mean 8 hrs. relative humidity from normal. | | |
|---|---|---|---|---|---|---|
| | January. | February. | Period, January and February. | January. | February. | Period, January and February. |
| | " | " | " | | | |
| Burma . . . . | +·022 | +·020 | +·021 | +3 | +2 | +3 |
| Eastern Bengal and Assam. | —·010 | —·042 | —·026 | —3 | —6 | —5 |
| Bengal . . . . | +·012 | —·030 | —·009 | —3 | —3 | —3 |
| United Provinces . . | —·017 | —·047 | —·032 | —6 | —10 | —8 |
| Punjab . . . . | —·021 | —·038 | —·029 | —2 | —4 | —3 |
| North-West Frontier Province. | —·028 | —·042 | —·035 | —6 | —8 | —7 |
| Sind . . . . | —·010 | —·021 | ·015 | —1 | —3 | —2 |
| Rajputana . . . | —·009 | —·050 | —·029 | +2 | —7 | —3 |
| Bombay . . . | +·021 | —·019 | +·001 | +2 | —2 | 0 |
| Central India . . | —·007 | —·024 | —·015 | —5 | —5 | —5 |
| Central Provinces . . | +·012 | —·016 | —·002 | —3 | —4 | —3 |
| Hyderabad . . . | +·029 | +·023 | +·026 | —1 | —1 | —1 |
| Mysore . . . . | +·023 | —·004 | +·009 | +3 | —1 | +1 |
| Madras . . . . | +·042 | —·004 | +·019 | +3 | 0 | +1 |

These abnormalities agreed in the main with those of rainfall.

(*b*) In Persia in spite of the defect of rainfall humidity, both absolute and relative, was higher than usual; while in Baluchistan and the Himalayas the conditions were variable.

TABLE 60.

| Station. | Departure of mean 8 hrs. vapour pressure from normal. | | | Departure of mean 8 hrs. relative humidity from normal. | | |
|---|---|---|---|---|---|---|
| | January. | February. | Period, January and February. | January. | February. | Period, January and February. |
| | " | " | " | | | |
| Perim . . . . | +·007 | —·045 | —·019 | 0 | —5 | —3 |
| Baghdad . . . . | —·058 | —·030 | —·044 | —13 | —2 | —7 |
| Aden . . . . | +·044 | +·045 | +·045 | +5 | +5 | +5 |
| Bushire . . . . | +·001 | +·059 | +·030 | +8 | +6 | +7 |
| Tehran . . . . | —·002 | +·007 | +·003 | +18 | +15 | +17 |
| Ispahan . . . . | —·018 | —·025 | —·022 | —4 | 0 | —2 |
| Jask . . . . | —·014 | +·091 | +·039 | +2 | +8 | +5 |
| Muscat . . . . | —·014 | +·052 | +·019 | +3 | +2 | +3 |
| Chaman . . . . | 0 | +·008 | +·004 | +6 | +8 | +7 |
| Quetta . . . . | —·003 | —·004 | —·003 | +2 | +1 | +1 |
| Cherat . . . | —·036 | +·032 | —·002 | —8 | —14 | —11 |
| Murree . . . . | +·007 | —·014 | —·003 | +8 | —5 | +1 |
| Gilgit . . . . | +·009 | +·027 | +·018 | +15 | +12 | +13 |
| Srinagar . . . | —·029 | —·043 | —·036 | —9 | —8 | —9 |
| Simla . . . . | +·001 | +·001 | +·001 | +5 | +3 | +4 |
| Leh . . . . . | 0 | +·009 | +·005 | +2 | +12 | +7 |
| Chakrata . . . | —·002 | +·003 | +·001 | 0 | 0 | 0 |
| Darjeeling . . . | —·004 | —·009 | —·007 | —6 | —10 | —8 |
| Mount Abu . . . | —·007 | —·033 | —·020 | +2 | —8 | —3 |
| Pachmarhi . . . | +·014 | —·009 | +·003 | +1 | +3 | +2 |

## II.—The hot weather period.

(*a*) On the mean of the period the amount of vapour in the air fell short of the normal in all parts of India with the exception of the Central Provinces and Central India, but by small amounts. Owing to the prevailing low temperature the relative humidity was not however so generally in defect.

TABLE 61.

| Division. | Departure of mean 8 hrs. vapour pressure from normal. | | | | Departure of mean 8 hrs. relative humidity from normal. | | | |
|---|---|---|---|---|---|---|---|---|
| | March. | April. | May. | Period March to May. | March | April. | May. | Period March to May. |
| | " | " | " | " | | | | |
| Burma | —·007 | —·016 | —·011 | —·011 | 0 | +1 | 0 | 0 |
| Eastern Bengal and Assam | —·070 | —·066 | —·001 | —·046 | —11 | —1 | —2 | —5 |
| Bengal | —·088 | —·024 | —·016 | —·043 | —13 | +6 | —2 | —3 |
| United Provinces | —·084 | +·005 | —·027 | —·005 | —13 | +15 | —2 | 0 |
| Punjab | —·048 | +·049 | —·091 | —·030 | —7 | +9 | —7 | —2 |
| North-West Frontier Province | —·055 | +·025 | —·088 | —·039 | —10 | +2 | —8 | —5 |
| Sind | —·034 | +·025 | —·125 | —·045 | —5 | +4 | —8 | —3 |
| Rajputana | —·042 | +·070 | —·046 | —·006 | —6 | +15 | +2 | +4 |
| Bombay | —·019 | —·022 | —·046 | —·029 | —3 | +1 | —4 | —2 |
| Central India | —·050 | +·095 | +·022 | +·022 | —8 | +16 | +3 | +4 |
| Central Provinces | —·064 | +·065 | +·033 | +·011 | —10 | +12 | +2 | +1 |
| Hyderabad | —·063 | —·038 | +·001 | —·033 | —11 | 0 | —2 | —4 |
| Mysore | —·054 | —·053 | —·001 | —·036 | —5 | —4 | +4 | —2 |
| Madras | —·034 | —·031 | +·011 | —·018 | —1 | —1 | +2 | 0 |

(*b*) The dryness was not a feature of the lower atmosphere merely, for at almost all the hill stations the humidity was nearly as much in defect as in the plains below.

TABLE 62.

| Station. | Departure of mean 8 hrs. vapour pressure from normal. | | | | Departure of mean 8 hrs. relative humidity from normal. | | | |
|---|---|---|---|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. | March. | April. | May. | Period, March to May. |
| | " | " | " | " | | | | |
| Cherat | —·079 | +·029 | —·082 | —·044 | —20 | +5 | —8 | —8 |
| Murree | —·026 | +·011 | —·001 | +·005 | —10 | +11 | —1 | 0 |
| Gilgit | —·038 | +·031 | 0 | —·002 | —10 | 0 | +2 | —3 |
| Srinagar | —·024 | —·017 | —·042 | —·028 | —8 | —2 | 0 | —3 |
| Simla | —·045 | +·010 | —·061 | —·032 | —18 | +8 | —10 | —7 |
| Leh | +·006 | +·006 | —·022 | —·003 | +4 | —3 | —10 | —3 |
| Chakrata | —·033 | +·025 | —·029 | —·012 | —13 | +13 | —6 | —2 |
| Mount Abu | —·040 | +·060 | —·028 | —·003 | —9 | +13 | —5 | 0 |
| Pachmarhi | —·035 | +·072 | +·034 | +·024 | —4 | +15 | +3 | +5 |

As in the previous season the low humidity conditions did not extend westwards beyond Baluchistan, the air being damper than usual in Persia.

TABLE 63.

| Station. | Departure of mean 8 hrs. vapour pressure from normal. | | | | Departure of mean 8 hrs. relative humidity from normal. | | | |
|---|---|---|---|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. | March. | April. | May. | Period, March to May. |
| | " | " | " | " | | | | |
| Perim | —·024 | +·031 | +·013 | +·007 | —3 | +3 | —3 | —1 |
| Baghdad | —·048 | —·016 | —·015 | —·036 | —14 | —8 | —9 | —10 |
| Aden | 0 | +·073 | +·006 | +·026 | +1 | +4 | —1 | +1 |
| Bushire | +·090 | +·151 | +·166 | +·136 | +11 | +14 | +11 | +12 |
| Tehran | +·042 | +·021 | +·052 | +·038 | +16 | +12 | +10 | +13 |
| Ispahan | —·015 | —·030 | —·005 | —·017 | +1 | +15 | +17 | +11 |
| Jask | +·034 | +·045 | —·028 | +·017 | 0 | +5 | —1 | +1 |
| Muscat | +·020 | —·012 | —·108 | —·033 | —3 | —3 | —12 | —6 |
| Chaman | —·033 | —·043 | —·068 | —·048 | —5 | —12 | —1 | —6 |
| Quetta | —·035 | —·008 | —·123 | —·055 | —10 | —2 | —14 | —9 |

**III.—The south-west monsoon period.**—(*a*) On the average of the whole rainy season the departures from normal of humidity in the plains of India were extremely small and of no significance.

TABLE 64.

| Division. | Departure of mean 8 hrs. vapour pressure from normal. | | | | | Departure of mean 8 hrs. relative humidity from normal. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | June | July. | August. | September. | Period, June to September. | June. | July. | August. | September. | Period, June to September. |
| | " | " | " | " | " | | | | | |
| Burma | —·005 | —·004 | +·013 | +·003 | +·002 | +2 | +1 | +1 | +1 | +1 |
| Eastern Bengal and Assam | —·007 | —·002 | —·022 | +·007 | —·006 | 0 | —2 | 0 | —3 | —1 |
| Bengal | —·004 | —·003 | —·019 | 0 | —·008 | +3 | 0 | —1 | 0 | +1 |
| United Provinces | +·089 | +·035 | —·032 | +·015 | +·027 | +10 | +5 | —2 | +1 | +3 |
| Punjab | +·075 | +·048 | —·015 | +·021 | +·032 | +6 | +6 | 0 | +7 | +5 |
| North-West Frontier Province | —·009 | +·047 | +·010 | +·003 | +·020 | 0 | +6 | +1 | +2 | +2 |
| Sind | +·031 | +·037 | —·035 | —·018 | +·004 | +3 | +4 | 0 | +1 | +2 |
| Rajputana | +·011 | +·019 | —·032 | +·023 | +·013 | +1 | +9 | +4 | +8 | +5 |
| Bombay | —·002 | —·006 | —·014 | —·009 | —·008 | +1 | +2 | 0 | +1 | +1 |
| Central India | +·078 | +·026 | —·029 | +·005 | +·020 | +9 | +6 | —3 | +5 | +4 |
| Central Provinces | +·012 | —·015 | —·026 | —·039 | —·017 | +2 | +1 | —6 | —1 | —1 |
| Hyderabad | —·032 | —·012 | +·004 | —·041 | —·020 | +3 | +4 | +1 | —2 | +1 |
| Mysore | —·012 | —·004 | +·019 | —·002 | 0 | —1 | +3 | +4 | +3 | +2 |
| Madras | —·012 | —·015 | +·026 | —·010 | —·003 | 0 | 0 | +4 | 0 | +1 |

(*b*) The air was damper than usual, both absolutely and relatively, in Persia and also in the western Himalayas, but in Baluchistan the opposite condition prevailed.

TABLE 65.

| Division. | Departure of mean 8 hrs. vapour pressure from normal. | | | | | Departure of mean 8 hrs. relative humidity from normal. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. | June. | July. | August. | September. | Period, June to September. |
| | " | " | " | " | " | | | | | |
| Perim | —·010 | —·017 | +·056 | +·029 | +·015 | —3 | —1 | +6 | 0 | +1 |
| Baghdad | —·111 | —·085 | —·146 | —·081 | —·106 | —7 | —8 | —8 | —7 | —7 |
| Aden | —·040 | —·013 | +·086 | +·092 | +·031 | —6 | 0 | +3 | +4 | 0 |
| Bushire | +·055 | +·106 | +·121 | +·145 | +·107 | +7 | +6 | +9 | +14 | +9 |
| Tehran | +·105 | +·088 | +·097 | +·068 | +·089 | +19 | +16 | +17 | +17 | +17 |
| Ispahan | +·030 | +·160 | +·089 | +·008 | +·072 | +12 | +33 | +19 | +17 | +20 |
| Jask | +·011 | —·038 | +·017 | —·089 | —·025 | +9 | 0 | +11 | +4 | +6 |
| Muscat | +·135 | —·073 | —·045 | —·123 | —·027 | —16 | —9 | —1 | —8 | —9 |
| Chaman | —·074 | —·146 | —·047 | —·017 | —·071 | —5 | —11 | —3 | +6 | —3 |
| Quetta | —·101 | —·065 | —·001 | —·098 | —·066 | —11 | —7 | —5 | —14 | —9 |
| Cherat | —·073 | —·016 | +·099 | —·032 | —·005 | —6 | +1 | +13 | —1 | +2 |
| Murree | +·046 | +·036 | +·042 | —·024 | +·025 | +8 | +6 | +11 | 0 | +6 |
| Gilgit | —·001 | +·019 | +·040 | +·025 | +·021 | —3 | +5 | +8 | +11 | +5 |
| Kashgar | +·068 | +·083 | +·101 | +·116 | +·092 | +10 | +13 | +3 | +21 | +12 |
| Srinagar | —·039 | —·063 | —·024 | —·051 | —·044 | +1 | —3 | —2 | —1 | —1 |
| Simla | +·044 | +·013 | +·003 | —·007 | +·013 | +11 | +4 | +3 | —1 | +4 |
| Leh | +·010 | +·054 | +·035 | +·033 | +·033 | —1 | +9 | +3 | +7 | +5 |
| Chakrata | +·060 | —·001 | +·001 | +·022 | +·021 | +16 | +1 | +1 | +2 | +5 |
| Mount Abu | +·046 | +·029 | —·012 | +·015 | +·019 | +7 | 0 | +1 | +4 | +3 |
| Pachmarhi | +·035 | +·023 | +·007 | —·005 | +·015 | +6 | +6 | 0 | +6 | +5 |

## IV.—The retreating south-west monsoon period.

(*a*) In Burma, Eastern Bengal and Assam and north-west India the absolute humidity of the air was above the average throughout the period; in the first two areas this was probably due mainly to the excessive rainfall of the season itself, and in north-west India chiefly to the evaporation of the unusually heavy rain which had fallen in the rainy season proper, and partly to the disturbed conditions of December.

The relative humidity also followed the same distribution except in the case of Eastern Bengal and Assam where the percentage of saturation failed to reach its normal value.

(*b*) Over the remainder of the country nearly normal conditions obtained, except in Hyderabad where there was a certain deficiency of both absolute and relative humidity.

TABLE 66.

| Division. | Departure of mean 8 hrs. vapour pressure from normal. | | | | Departure of mean 8 hrs. relative humidity from normal. | | | |
|---|---|---|---|---|---|---|---|---|
| | October. | November. | December. | Period, October to December. | October. | November. | December. | Period, October to December. |
| | " | " | " | " | | | | |
| Burma | +·020 | +·052 | +·028 | +·033 | +3 | +6 | +4 | +4 |
| Eastern Bengal and Assam | +·011 | +·035 | +·014 | +·020 | —2 | —2 | —2 | —2 |
| Bengal | —·023 | —·014 | +·032 | —·002 | —3 | —5 | +2 | —2 |
| United Provinces | —·040 | +·012 | +·025 | —·001 | —6 | —3 | +5 | —1 |
| Punjab | +·028 | +·047 | +·034 | +·036 | +1 | +4 | +11 | +5 |
| North-West Frontier Province | +·037 | +·045 | +·016 | +·033 | +1 | +5 | +9 | +5 |
| Sind | +·127 | +·154 | +·031 | +·104 | +13 | +15 | +8 | +12 |
| Rajputana | +·034 | +·017 | +·021 | +·024 | +5 | +3 | +11 | +6 |
| Bombay | —·018 | —·015 | +·036 | +·001 | —1 | —3 | +5 | 0 |
| Central India | —·047 | —·037 | +·027 | —·019 | —3 | —5 | +7 | 0 |
| Central Provinces | —·070 | —·086 | +·071 | —·028 | —7 | —11 | +11 | —2 |
| Hyderabad | —·122 | —·111 | +·057 | —·059 | —12 | —16 | +4 | —8 |
| Mysore | —·010 | +·007 | +·032 | +·010 | —1 | —1 | +3 | 0 |
| Madras | —·021 | —·020 | +·022 | —·006 | —4 | —5 | 0 | —3 |

(*c*) The air was more humid than usual in Persia particularly in October, but in the mountain zone bordering northern India the departures from the normal hygrometric conditions were small and of no significance.

TABLE 67.

| Station. | Departure of mean 8 hrs. vapour pressure from normal. | | | | Departure of mean 8 hrs relative humidity from normal. | | | |
|---|---|---|---|---|---|---|---|---|
| | October. | November. | December. | Period October to December. | October. | November. | December. | Period October to December. |
| | " | " | " | " | | | | |
| Perim | +·015 | —·021 | +·022 | +·005 | —1 | —4 | +1 | —1 |
| Baghdad | —·013 | +·088 | —·005 | +·023 | —2 | +11 | +2 | +4 |
| Aden | +·131 | +·031 | +·035 | +·066 | +10 | +2 | +1 | +4 |
| Bushire | +·110 | +·049 | +·018 | +·059 | +14 | +9 | +7 | +10 |
| Tehran | +·032 | +·003 | —·004 | +·010 | +16 | —2 | +1 | +5 |
| Ispahan | +·046 | —·040 | —·025 | —·006 | +17 | —10 | —2 | +2 |
| Jask | +·073 | +·058 | +·015 | +·040 | +16 | +15 | +9 | +13 |
| Muscat | —·041 | —·019 | —·043 | —·034 | —3 | —5 | —2 | —3 |
| Chaman | +·013 | —·027 | —·030 | —·015 | +5 | +1 | +10 | +5 |
| Quetta | —·004 | —·001 | —·003 | —·003 | —5 | —2 | +2 | —2 |
| Cherat | —·011 | +·008 | —·014 | —·006 | —2 | 0 | —1 | —1 |
| Murree | +·041 | +·024 | +·003 | +·023 | +10 | +3 | +4 | +6 |
| Gilgit | +·057 | —·029 | —·012 | +·005 | +10 | —14 | —5 | —3 |
| Srinagar | +·013 | +·006 | —·005 | +·005 | —1 | —2 | —4 | —2 |
| Simla | —·004 | +·013 | +·012 | +·007 | —3 | —1 | +9 | +2 |
| Leh | —·021 | —·023 | +·002 | —·014 | —13 | —13 | —2 | —9 |
| Chakrata | —·003 | +·021 | +·003 | +·007 | —3 | +2 | +6 | +2 |
| Darjeeling | +·013 | +·035 | +·021 | +·023 | —9 | —1 | 0 | —3 |
| Mount Abu | +·056 | +·013 | +·010 | +·026 | +7 | —1 | +6 | +4 |
| Pachmarhi | —·031 | —·053 | +·071 | —·004 | —3 | —9 | +16 | +1 |

**The year.**—In point of absolute humidity February, March, May, August and October were on the whole dry months. In March the dryness was universal; in February the only exceptions were Burma and Hyderabad, in May Central India, the Central Provinces, Hyderabad and Madras, in August Burma, Madras, Mysore and Hyderabad and the North-West Frontier Province and in October the whole of northwest India, Eastern Bengal and Assam and Burma. On the other hand April, June and December were damper than usual, the last in all parts of the country, and the other two chiefly in northern and central India. During the rest of the year the air contained about the usual proportion of water vapour.

As the anomalous features of different months and different parts of the country very nearly balanced each other, the yearly mean of absolute humidity was only ·003″ below the normal value.

Although the proportion of the vapour constituent was in defect, in virtue of the lowness of temperature the percentage of saturation was exactly normal.

The statement below shows that in most months the departures from normal of humidity were determined by the character of the precipitation:—

TABLE 68.

| — | Departure from normal of the Indian area. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
| Vapour pressure at 8 hrs. | +·007 | —·020 | —·049 | +·013 | —·022 | +·016 | +·009 | —·012 | —·002 | —·011 | 0 | +·033 | —·003 |
| Relative humidity at 8 hrs. | —1 | —3 | —7 | +6 | —1 | +3 | +3 | 0 | +1 | —2 | —2 | +5 | 0 |
| Mean temperature | +0·4 | —0·2 | +0·5 | —2·5 | —0·5 | —1·0 | —1·1 | —0·5 | —0·8 | +0·1 | +1·5 | +0·3 | —0·3 |
| Rainfall (percentage) | +24 | —38 | —83 | +110 | +1 | +19 | +9 | 0 | —5 | —29 | —25 | +92 | +5 |

## Cloud.

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

Departure data of this element of meteorological observation for first and second class stations for the year 1909 are given in Table 69. Table 70 gives the departures of the 8 hrs. cloud for the fourteen chief political provinces of India.

TABLE 69.—*Departure of the monthly and annual mean cloud proportion of 1909 from the average of past years.*

| Division. | Station. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Burma | Rangoon | −1·1 | +2·3 | −0·6 | +1·0 | +1·1 | +0·1 | +0·3 | −0·2 | +0·3 | +1·7 | +2·6 | +0·1 | +0·6 |
| Bengal | Calcutta | +0·3 | +0·1 | −1·0 | +2·5 | −1·0 | +0·7 | −0·1 | −0·3 | −0·9 | −0·7 | −0·7 | +0·5 | −0·1 |
| United Provinces of Agra and Oudh. | Allahabad | +1·2 | +0·1 | −0·2 | +3·2 | −0·8 | +2·6 | +1·2 | +0·8 | +0·2 | −1·2 | −1·2 | +1·9 | +0·7 |
| | Dehra Dun | +1·5 | 0 | −1·4 | +2·2 | −0·3 | +1·9 | +0·9 | +1·4 | −0·5 | −0·9 | −1·2 | +1·7 | +0·4 |
| Panjab | Lahore | −0·3 | −0·5 | −1·1 | +0·2 | −1·9 | −1·4 | 0 | +0·1 | +0·7 | −0·6 | −0·9 | +0·5 | −0·4 |
| Rajputana | Jaipur | +0·8 | −0·7 | −1·8 | +2·4 | −0·7 | +0·2 | +1·2 | +0·3 | +0·4 | −0·9 | −1·2 | +0·9 | +0·1 |
| Bombay | Bombay | −0·3 | −0·2 | +0·3 | 0 | −0·2 | +0·8 | +0·7 | −0·9 | +1·1 | −1·0 | −0·8 | 0 | 0 |
| Central Provinces | Nagpur | −0·4 | −0·2 | +0·6 | +0·6 | 0 | −0·7 | −0·7 | −1·8 | −1·5 | −1·9 | −1·6 | +2·2 | −0·5 |
| Hyderabad | Hyderabad | +0·8 | +0·9 | +0·2 | +0·5 | +1·2 | +0·9 | +0·6 | +0·1 | 0 | −0·7 | −0·9 | +0·5 | +0·3 |
| Mysore | Mysore | +1·0 | +0·6 | +2·1 | −1·8 | +0·1 | 0 | +0·5 | +0·5 | +0·6 | −0·4 | −1·1 | −0·1 | +0·2 |
| Madras | Madras | 0 | +0·2 | +0·3 | −0·4 | 0 | −0·4 | −0·4 | −0·9 | 0 | −2·4 | −1·2 | −1·5 | −0·6 |
| Bay Islands | Port Blair | +0·3 | +3·3 | +1·7 | +1·6 | +1·7 | +1·6 | +1·3 | +0·8 | +1·3 | +1·3 | +1·3 | +0·1 | +1·4 |
| Kashmir | Srinagar | +1·3 | +1·0 | +0·2 | −0·4 | −1·0 | −0·8 | +1·0 | +0·8 | +0·4 | −0·3 | −2·3 | +0·7 | +0·1 |
| | Leh | +0·9 | −0·4 | +0·5 | +0·1 | −1·0 | −1·2 | +0·4 | −0·2 | −0·5 | −1·4 | −2·4 | +0·2 | −0·4 |
| Baluchistan | Quetta | +0·2 | +0·5 | −1·0 | +0·6 | −0·9 | −0·4 | +1·1 | −0·4 | −0·4 | −0·4 | −1·6 | +0·7 | −0·2 |
| Hill stations excluding Kashmir and Baluchistan. | Simla | +0·2 | −0·6 | +0·2 | +1·8 | −1·4 | +1·6 | +0·9 | +1·0 | +0·1 | −0·8 | −1·7 | +0·8 | +0·2 |
| | Chakrata | +0·8 | −0·5 | −1·4 | +1·1 | −1·4 | +1·5 | −0·2 | +0·8 | −0·6 | −0·9 | −1·3 | +1·4 | −0·1 |
| | Katmandu | −1·1 | −1·2 | −3·0 | +0·7 | −2·4 | +0·3 | −0·2 | +0·1 | −0·5 | −2·9 | −1·3 | +0·3 | −0·9 |
| | Darjeeling | ? | ? | ? | ? | ? | ? | ? | ? | +0·6 | +1·7 | +3·3 | −2·8 | ? |
| | Pachmarhi | −1·8 | −1·6 | −1·4 | −1·0 | −2·2 | −3·0 | −1·4 | −1·9 | −2·1 | −3·2 | −2·1 | +0·9 | −1·7 |
| | Mount Abu | +0·8 | +0·1 | −1·5 | +2·1 | −0·6 | +1·6 | +0·5 | +1·3 | +2·0 | −0·5 | −1·0 | +1·7 | +0·6 |
| | Chikalda | +1·1 | +1·5 | +1·0 | +2·0 | +2·4 | 0 | −0·9 | −1·8 | −0·5 | −1·3 | −1·9 | +2·3 | +0·3 |
| Extra India | Zanzibar | +2·1 | +0·3 | +0·5 | +1·6 | 0 | +0·6 | +0·8 | +0·8 | +0·3 | +1·2 | +0·5 | +1·0 | +0·8 |
| | Seychelles | +0·1 | +0·7 | −1·6 | +0·6 | −1·0 | −1·2 | −0·2 | −0·8 | −0·8 | −0·7 | −0·7 | −0·9 | −0·5 |
| | Mauritius | −0·2 | +0·8 | +0·6 | −0·4 | −0·2 | +2·1 | +0·6 | +0·4 | −0·1 | +0·8 | +0·7 | −0·1 | +0·4 |

TABLE 70.—*Departure of the mean monthly and annual cloud amount from normal in the fourteen chief political divisions of India in 1909.*

| Division. | January. | February. | March. | April. | May. | June. | July. | August. | September. | October. | November. | December. | Year. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Burma | −0·3 | +1·3 | −0·4 | +0·5 | +0·1 | +0·7 | +0·4 | −0·2 | +0·6 | +1·2 | +1·9 | −0·4 | +0·5 |
| Eastern Bengal and Assam | +0·6 | −0·9 | −1·9 | +0·3 | −1·2 | −0·4 | −2·0 | −0·6 | −2·0 | −0·7 | −0·5 | +1·1 | −0·7 |
| Bengal | +1·0 | 0 | −0·9 | +1·6 | −1·1 | +0·6 | 0 | +0·1 | +0·2 | −0·7 | −0·9 | +1·2 | +0·1 |
| United Provinces | +0·6 | −0·4 | −0·8 | +1·8 | −0·6 | 0 | 0 | −0·7 | −1·2 | −0·6 | −1·0 | +1·3 | −0·1 |
| Punjab | −0·2 | −0·4 | −0·6 | +0·3 | −1·2 | −0·6 | +1·0 | +0·3 | +0·6 | −0·4 | −1·4 | +0·1 | −0·2 |
| North-West Frontier Province | −0·9 | −0·2 | −1·2 | −0·3 | −0·6 | +0·5 | +0·8 | +1·3 | +0·4 | 0 | −1·5 | +0·7 | −0·1 |
| Sind | +0·2 | +0·2 | −0·6 | +0·6 | −0·2 | +0·2 | +1·4 | −0·3 | +0·2 | 0 | −0·9 | +1·1 | +0·2 |
| Rajputana | +0·3 | −0·9 | −1·4 | +1·3 | −1·0 | −0·7 | +1·3 | +0·8 | +1·0 | −0·6 | −1·3 | +0·9 | 0 |
| Bombay | +0·4 | +0·2 | −0·5 | −0·7 | +0·1 | +0·2 | +0·5 | 0 | 0 | −0·5 | −0·7 | −0·1 | −0·1 |
| Central India | +1·9 | +0·9 | +0·2 | +2·6 | +0·4 | +2·1 | +1·6 | +0·3 | +1·0 | −0·3 | −1·1 | +2·5 | +1·0 |
| Central Provinces | +0·5 | +0·2 | +0·7 | +0·5 | +0·1 | +0·8 | +1·1 | −0·9 | +0·6 | −0·6 | −1·1 | +2·5 | +0·4 |
| Hyderabad | +0·8 | +1·1 | +0·1 | −0·5 | +0·6 | +0·3 | +1·0 | −0·1 | −0·9 | −0·5 | −1·0 | +0·2 | +0·1 |
| Mysore | +1·4 | +0·7 | +0·7 | −1·6 | +0·3 | −0·1 | +0·7 | +0·4 | 0 | −1·5 | −0·6 | −0·8 | 0 |
| Madras | +1·3 | +0·7 | +0·5 | −0·4 | +0·2 | +0·1 | +0·2 | +0·1 | −0·1 | −1·1 | 0 | −0·1 | +0·1 |
| Mean of India when the size of the above areas is taken into account. | +0·5 | +0·2 | −0·4 | +0·5 | −0·3 | +0·2 | +0·5 | −0·1 | +0·1 | −0·4 | −0·6 | +0·7 | +0·1 |

## I.—The cold weather period.

(*a*) On the mean of the period the cloud amount was about normal in northern India, and above normal in Burma and the peninsula.

TABLE 71.

| Division. | Departure of mean 8 hrs. cloud amount from normal. | | |
|---|---|---|---|
| | January. | February. | Period, January and February. |
| Burma | − 0·3 | + 1·3 | + 0·5 |
| Eastern Bengal and Assam | + 0·6 | − 0·9 | − 0·1 |
| Bengal | + 1·0 | 0 | + 0·5 |
| United Provinces | + 0·6 | − 0·4 | + 0·1 |
| Punjab | − 0·2 | − 0·4 | − 0·3 |
| North-West Frontier Province | − 0·9 | − 0·2 | − 0·5 |
| Sind | + 0·2 | + 0·2 | + 0·2 |
| Rajputana | + 0·3 | − 0·9 | − 0·3 |
| Bombay | + 0·4 | + 0·2 | + 0·3 |
| Central India | + 1·9 | + 0·9 | + 1·4 |
| Central Provinces | + 0·5 | + 0·2 | + 0·3 |
| Hyderabad | + 0·8 | + 1·1 | + 0·9 |
| Mysore | + 1·4 | + 0·7 | + 1·1 |
| Madras | + 1·3 | + 0·7 | + 1·0 |

These abnormalities were largely independent of those of humidity and precipitation which were deficient in all the larger provinces with the exception of Burma, Mysore and Madras.

(*b*) In the hill districts bordering upper India the cloud proportion was high both in January and February.

TABLE 72.

| Station. | Departure of mean 8 hrs. cloud amount from normal. | | |
|---|---|---|---|
| | January. | February. | Period, January and February. |
| Aden | + 0·6 | − 0·1 | + 0·3 |
| Baghdad | + 0·5 | + 0·3 | + 0·4 |
| Bushire | + 1·0 | ... | ... |
| Tehran | − 0·4 | − 1·7 | − 1·1 |
| Ispahan | − 0·8 | − 1·4 | − 1·1 |
| Jask | + 1·9 | + 0·6 | + 1·3 |
| Muscat | + 0·6 | + 0·3 | + 0·5 |
| Kabul | + 1·0 | + 0·3 | + 0·7 |
| Chaman | + 0·4 | + 1·4 | + 0·9 |
| Quetta | + 0·6 | + 1·3 | + 0·9 |
| Cherat | − 0·2 | − 0·3 | − 0·3 |
| Murree | − 0·5 | + 0·2 | − 0·1 |
| Gilgit | + 0·8 | + 0·7 | + 0·7 |
| Kashgar | − 0·6 | − 0·8 | − 0·7 |
| Srinagar | + 2·1 | + 0·3 | + 1·2 |
| Leh | + 0·9 | + 1·4 | + 1·1 |
| Simla | + 0·7 | + 0·4 | + 0·5 |
| Chakrata | + 0·8 | + 0·8 | + 0·8 |
| Mount Abu | + 1·3 | + 2·0 | + 1·7 |
| Pachmarhi | − 1·3 | − 1·3 | − 1·3 |

## II.—The hot weather period.

(*a*) The state of the skies was on the average of the whole period very nearly normal in all the provinces with the exception of Central India where there was a decided excess of cloud.

TABLE 73.

| Division. | Departure of mean 8 hrs. cloud amount from normal. | | | |
|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. |
| Burma | − 0·4 | + 0·5 | + 0·1 | + 0·1 |
| Eastern Bengal and Assam | − 1·9 | + 0·3 | − 1·2 | − 0·9 |
| Bengal | − 0·9 | + 1·6 | − 1·1 | − 0·1 |
| United Provinces | − 0·8 | + 1·8 | − 0·6 | + 0·1 |
| Punjab | − 0·6 | + 0·3 | − 1·2 | − 0·5 |

| Division. | Departure of mean 8 hrs. cloud amount from normal. | | | |
|---|---|---|---|---|
| | March. | April. | May. | Period, March to May. |
| North-West Frontier Province | — 1·2 | — 0·3 | — 0·6 | — 0·7 |
| Sind | — 0·6 | + 0·6 | — 0·2 | — 0·1 |
| Rajputana | — 1·4 | + 1·3 | — 1·0 | — 0·4 |
| Bombay | — 0·5 | — 0·7 | + 0·1 | — 0·4 |
| Central India | + 0·2 | + 2·6 | + 0·4 | + 1·1 |
| Central Provinces | + 0·7 | + 0·5 | + 0·1 | + 0·4 |
| Hyderabad | + 0·1 | — 0·5 | + 0·6 | + 0·1 |
| Mysore | + 0·7 | — 1·6 | + 0·3 | — 0·2 |
| Madras | + 0·5 | — 0·4 | + 0·2 | + 0·1 |

(*b*) The coincident departures in Persia, Arabia, Baluchistan and the western Himalayas are given in the statement below :—

TABLE 74.

| Station. | Departure of mean 8 hrs. cloud amount from normal. | | | |
|---|---|---|---|---|
| | March.. | April. | May. | Period, March to May. |
| Aden | — 0·5 | + 3·1 | — 0·7 | + 0·6 |
| Baghdad | + 0·7 | + 0·8 | + 0·4 | + 0·6 |
| Bushire | — 0·2 | + 0·5 | + 0·3 | + 0·2 |
| Tehran | — 1·8 | — 0·8 | — 1·6 | — 1·4 |
| Ispahan | — 1·0 | — 0·7 | — 0·3 | — 0·7 |
| Jask | — 0.7 | + 1·4 | — 0·7 | 0 |
| Muscat | — 0·3 | + 1·0 | + 0·3 | + 0·3 |
| Kabul | — 0·4 | + 1·1 | + 0·7 | + 0·5 |
| Chaman | — 0·2 | + 1·7 | + 0·2 | + 0·6 |
| Quetta | — 0·1 | 0 | — 0·5 | — 0·2 |
| Cherat | — 1·1 | 0 | — 0·7 | — 0·6 |
| Murree | — 0·4 | — 0·8 | — 1·7 | — 1·0 |
| Gilgit | + 1·1 | + 0·6 | 0 | + 0·6 |
| Kashgar | — 0·5 | — 1·7 | + 2·5 | + 0·1 |
| Srinagar | + 0·1 | — 0·2 | — 1·3 | — 0·5 |
| Leh | + 0·5 | — 0·1 | — 1·6 | — 0·4 |
| Simla | 0 | + 0·2 | — 0·5 | — 0·1 |
| Chakrata | — 0·9 | 0 | — 0·6 | — 0·5 |
| Mount Abu | — 1·0 | + 1·6 | — 0·6 | 0 |
| Pachmarhi | — 1·1 | — 0·5 | — 1·5 | — 1·0 |

These data show that except perhaps in eastern Turkistan the winter conditions did not outlast April.

## III.—The south-west monsoon period.

(*a*) The cloud proportion was appreciably high in Central India and the North-West Frontier Province, and rather low in Eastern Bengal and Assam, but elsewhere the skies were clouded to about the average extent :—

TABLE 75.

| Division. | Departure of mean 8 hrs. cloud amount from normal. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| Burma | +0·7 | +0·4 | —0·2 | +0·6 | +0·4 |
| Eastern Bengal and Assam. | —0·4 | —2·0 | —0·6 | —2·0 | —1·3 |
| Bengal | +0·6 | 0 | +0·1 | +0·2 | +0·2 |
| United Provinces | 0 | 0 | —0·7 | —1·2 | —0·5 |
| Punjab | —0·6 | +1·0 | +0·3 | +0·6 | +0·3 |
| North-West Frontier Province. | +0·5 | +0·8 | +1·3 | +0·4 | +0·7 |
| Sind | +0·2 | +1·4 | —0·3 | +0·2 | +0·4 |
| Rajputana | —0·7 | +1·3 | +0·8 | +1·0 | +0·6 |
| Bombay | +0·2 | +0·5 | 0 | 0 | +0·2 |
| Central India | +2·1 | +1·6 | +0·3 | +1·0 | +1·3 |
| Central Provinces | +0·8 | +1·1 | —0·0 | +0·6 | +0·4 |
| Hyderabad | +0·3 | +1·0 | —0·1 | —0·9 | +0·1 |
| Mysore | —0·1 | +0·7 | +0·4 | 0 | +0·3 |
| Madras | +0·1 | +0·2 | +0·1 | —0·1 | +0·1 |

These departures agreed with those of rainfall except in the case of Central India, the Central Provinces, the United Provinces and Eastern Bengal and Assam : in the first two areas the cloud exceeded the average in spite of the defect of rainfall, while in the United Provinces and Eastern Bengal and Assam the opposite condition held.

(*b*) In the western Himalayas and the Aravalis the state of the skies was the same as in the adjacent plains.

TABLE 76.

| Station. | Departure of mean 8 hrs. cloud amount from normal. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| Cherat | −1·1 | +0·6 | +3·2 | +0·1 | +0·7 |
| Murree | −0·8 | +0·8 | +2·7 | +0·3 | +0·7 |
| Gilgit | −0·9 | +1·0 | +0·8 | +0·4 | +0·3 |
| Kashgar | −0·2 | +1·3 | −1·2 | +0·8 | +0·2 |
| Srinagar | −1·2 | +0·5 | +0·7 | +0·8 | +0·2 |
| Leh | +0·3 | +2·3 | +0·3 | +0·3 | +0·8 |
| Simla | +0·8 | +1·1 | +1·6 | −0·6 | +0·7 |
| Chakrata | +1·2 | +2·3 | +2·5 | +0·4 | +1·6 |
| Mount Abu | +0·9 | +0·1 | +1·0 | +2·0 | +1·0 |
| Pachmarhi | −1·4 | +0·5 | −0·9 | +0·6 | −0·3 |

(c) In Persia, Baluchistan and Afghanistan the recorded amount of cloud differed but little from the normal.

TABLE 77.

| Station. | Departure of mean 8 hrs. cloud amount from normal. | | | | |
|---|---|---|---|---|---|
| | June. | July. | August. | September. | Period, June to September. |
| Aden | −0·2 | −0·1 | −0·3 | −0·6 | −0·3 |
| Baghdad | +0·4 | +0·3 | +0·1 | +0·1 | +0·2 |
| Bushire | −0·2 | −0·9 | ... | ... | ... |
| Tehran | −0·2 | −1·0 | +0·5 | −0·2 | −0·2 |
| Ispahan | −0·1 | +0·2 | +0·7 | 0 | +0·2 |
| Jask | +0·2 | −0·1 | 0 | −1·1 | −0·3 |
| Muscat | +3·1 | +1·9 | +1·5 | −0·1 | +1·6 |
| Kabul | +0·2 | +0·7 | +0·6 | +0·1 | +0·4 |
| Chaman | −0·2 | +0·5 | +0·1 | 0 | +0·1 |
| Quetta | −0·4 | +0·4 | −0·4 | −0·2 | −0·1 |

## IV.—The retreating south-west monsoon period.

(a) In most parts of the country skies were unusually clear in October and November, and were clouded to more than the customary extent in December. On the mean of the period as a whole the departures from the normal were not marked except in the case of Burma (+0·9) and Mysore (−1·0).

TABLE 78.

| Division. | Departure of mean 8 hrs. cloud amount from normal. | | | |
|---|---|---|---|---|
| | October. | November. | December. | Period, October to December. |
| Burma | +1·2 | +1·9 | −0·4 | +0·9 |
| Eastern Bengal and Assam | −0·7 | −0·5 | +1·1 | 0 |
| Bengal | −0·7 | −0·9 | +1·2 | −0·1 |
| United Provinces | −0·6 | −1·0 | +1·3 | −0·1 |
| Punjab | −0·4 | −1·4 | +0·1 | −0·6 |
| North-West Frontier Province | 0 | −1·5 | +0·7 | −0·3 |
| Sind | 0 | −0·9 | +1·1 | +0·1 |
| Rajputana | −0·6 | −1·3 | +0·9 | −0·3 |
| Bombay | −0·5 | −0·7 | −0·1 | −0·4 |
| Central India | −0·3 | −1·1 | +2·5 | +0·4 |
| Central Provinces | −0·6 | −1·1 | +2·5 | +0·8 |
| Hyderabad | −0·5 | −1·0 | +0·2 | −0·4 |
| Mysore | −1·5 | −0·6 | −0·8 | −1·0 |
| Madras | −1·1 | 0 | −0·1 | −0·4 |

(b) In Kashmir and Kashgaria there was a persistent deficiency of cloud, an indication that the winter conditions there were late in setting in. In the highlands to the west of the Indus the proportion of cloud although about normal in amount on the mean of the period was very low in November and excessive in December.

TABLE 79.

| STATION. | DEPARTURE OF MEAN 8 HRS. CLOUD AMOUNT FROM NORMAL. | | | |
|---|---|---|---|---|
| | October. | November. | December. | Period, October to December. |
| Aden | — 0·6 | — 2·3 | — 0·4 | — 1·1 |
| Baghdad | + 1·5 | + 3·4 | + 1·2 | + 2·0 |
| Bushire | + 0·7 | — 2·4 | + 2·2 | + 0·2 |
| Tehran | + 0·6 | 0 | — 0·1 | + 0·2 |
| Ispahan | — 0·4 | — 3·0 | — 2·2 | — 1·9 |
| Jask | + 0·2 | — 1·2 | + 1·6 | + 0·2 |
| Muscat | + 0·1 | — 0·8 | + 1·7 | + 0·3 |
| Kabul | — 0·2 | — 1·4 | + 1·1 | — 0·2 |
| Chaman | — 0·2 | — 2·3 | + 1·8 | — 0·2 |
| Quetta | — 0·4 | — 1·9 | + 1·2 | — 0·4 |
| Cherat | + 0·1 | — 1·6 | + 0·5 | — 0·3 |
| Murree | + 0·4 | — 1·4 | + 1·3 | + 0·1 |
| Gilgit | + 0·2 | — 2·9 | — 1·0 | — 1·2 |
| Kashgar | — 1·2 | — 1·9 | — 2·5 | — 1·9 |
| Srinagar | 0 | — 2·3 | — 0·2 | — 0·8 |
| Leh | — 0·4 | — 3·1 | 0 | — 1·2 |
| Simla | — 0·5 | — 1·6 | + 0·3 | — 0·6 |
| Chakrata | — 0·7 | — 1·2 | + 0·6 | — 0·4 |
| Darjeeling | + 0·8 | + 2·5 | + 2·4 | + 1·9 |
| Mount Abu | — 0·1 | — 1·7 | + 1·8 | 0 |
| Pachmarhi | — 1·8 | — 1·6 | + 1·1 | — 0·8 |

**The year.**—The mean cloud amount recorded in 1909 at the stations, the data of which are given in Table 70 was in excess of the normal by only 0·1, or one-hundredth of the total sky expanse.

As compared with the average January, April and December were the most cloudy months, as they were the most rainy; and November, in which a fairly large defect of rainfall occurred, was least marked by cloud. In eight of the twelve months the departures of cloud were directly related to those of rainfall.

The statement below shows the departure of the mean amount of cloud in the Indian area annually during the period 1875-1909:—

TABLE 80.

| YEAR. | Amount of departure. |
|---|---|
| 1875 | 0 |
| 1876 | — 0·2 |
| 1877 | + 0·3 |
| 1878 | + 0·1 |
| 1879 | — 0·1 |
| 1880 | — 0·1 |
| 1881 | — 0·1 |
| 1882 | 0 |
| 1883 | + 0·1 |
| 1884 | — 0·1 |
| 1885 | + 0·2 |
| 1886 | + 0·2 |
| 1887 | — 0·1 |
| 1888 | — 0·2 |
| 1889 | + 0·1 |
| 1890 | + 0·2 |
| 1891 | + 0·1 |
| 1892 | + 0·1 |
| 1893 | + 0·5 |
| 1894 | + 0·5 |
| 1895 | + 0·1 |
| 1896 | — 0·2 |
| 1897 | 0 |
| 1898 | — 0·2 |
| 1899 | — 0·3 |
| 1900 | + 0·2 |
| 1901 | + 0·1 |
| 1902 | — 0·1 |
| 1903 | — 0·1 |
| 1904 | — 0·3 |
| 1905 | — 0·2 |
| 1906 | 0 |
| 1907 | — 0·3 |
| 1908 | — 0·2 |
| 1909 | + 0·1 |

## Snowfall.

(A).—*The cold weather of 1908-09 and the succeeding hot weather* :—

(*a*) Judging from the scanty information available, the snowfall was on the whole heavier and continued longer than usual in Afghanistan and possibly also in parts of Persia.

(*b*) In Baluchistan the precipitation was in excess of the normal in February and April, and in defect in the other months of the season. In the last week of February snow lay thickly on the hills as far down as Pishin where it had not been seen for years.

(*c*) In the North-West Frontier Province the snowfall was excessive in December and normal or below it during the rest of the period.

(*d*) In Kashmir the snowfall was deficient throughout except in December and February.

(*e*) In the Punjab Himalayas the snowfall was fairly normal in amount during the period December to March and was in excess in April. The April fall in Kulu was regarded as the heaviest on record for that locality during the past 40 years; but notwithstanding this the snow accumulations at the end of the month were by no means as great as usual. In May several falls occurred on elevations above 9,500 feet; the total quantity received was as much as 6 feet on the Sach pass. The snowline was probably at a somewhat lower level than usual.

(*f*) In the Kumaon Himalayas the snowfall was greater than usual in December, January and April and below normal in the other three months. On the average of the whole period the snowfall conditions did not differ largely from the normal.

(*g*) The information regarding the eastern Himalayas is as usual limited; it shows, however, that the snowfall there was not above the average.

On the whole it may be said that the total snowfall up to the end of May was not excessive except in Afghanistan, and that the accumulations in the Himalayan region in the beginning of June were probably not quite so deep as usual.

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

During June less snowfall than usual occurred except perhaps in Kumaon, and the accumulations at the end of the month were on the whole either normal or below it.

In July there were no heavy general falls, and the previous accumulations diminished largely in amount, particularly in Kashmir.

In August probably no snow fell in the Afghan mountains, and scarcely any in Kashmir and perhaps also in the Punjab Himalayas. At the end of the month the higher passes near Kilba were covered with snow to about the usual depth, while the passes and peaks near Kargil in Kashmir were quite bare. Several snowstorms occurred on the higher passes and peaks in Almora. The total fall there was probably not excessive and the accumulations were on the whole about normal.

In September there were several falls in Almora, the Simla Hills and parts of Kashmir. The total quantity received on some of the ranges near Skardu in Kashmir was heavy for the time of year, and had the effect of blocking the Deosai pass for a fortnight. The accumulations in the Simla and Almora hills were apparently of about the average thickness.

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

In October there was an extensive, and in places heavy, fall of snow on the higher ranges of the north-west Himalayas from the 13th to the 16th. As little or no snowfall occurred at other times, it is almost certain that the snowfall conditions of the month as a whole were not of an unusual character. The accumulations at the end of the month in Kumaon, for which alone actual data are forthcoming, were on the whole greater than usual.

In November the snowfall of the month in the mountain zone bordering upper India was, if any thing, below the average. The first heavy snowfall of the winter of 1909-10 in the hills to the north and east of Sadiya in Assam occurred on the 25th and 26th November.

During December the snowfall was somewhat irregularly distributed, being heavier than usual in Baluchistan and the western Himalayas and deficient in Afghanistan and parts of the North-West Frontier Province. In Chamba the snowline came down as low as 4,500 feet.

## Rainfall.

The rainfall data of India are now issued annually in a separate volume entitled "Rainfall of India." The nineteenth volume, that of 1909, contains the whole rainfall data of 2,748 stations which are there classified under their respective administrative divisions according to the following scheme :—

| Province. | Number of stations. |
|---|---|
| Burma | 192 |
| Eastern Bengal and Assam | 245 |
| Bengal | 354 |
| United Provinces of Agra and Oudh | 277 |
| Punjab | 189 |
| North-West Frontier Province | 23 |
| Bombay | 289 |
| Madras (including Puddukkottai, Travancore and Cochin) | 492 |
| Coorg | 10 |
| Central Provinces | 171 |
| Mysore | 77 |
| Baluchistan | 64 |
| Kashmir | 28 |
| Rajputana | 189 |
| Central India | 115 |
| Hyderabad (Deccan) | 22 |
| Total | 2,748 |

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.

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

The three tables (Tables 81 to 83) give summaries of the rainfall data of the year. The first and second tables give average rainfall data based on the returns of about 2,000 raingauge stations for the 14 chief political divisions and the 34 sub-divisions respectively, while the third table (Table 83) contains data of the number of rainy days for the 34 sub-divisions for the four seasons into which the year has been divided.

TABLE 81.—*Average, over the 14 chief political divisions, of the actual and normal rainfall for the four seasons of the year 1909, 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 | 0·26 | 0·26 | 0 | 0 | 11·74 | 10·70 | +1·04 | +10 | 62·08 | 60·22 | +1·86 | +3 | 11·80 | 7·26 | +4·54 | +63 | 85·88 | 78·44 | +7·44 | +9 |
| Eastern Bengal and Assam | 0·80 | 1·77 | −0·97 | −55 | 17·13 | 21·40 | −4·27 | −20 | 67·11 | 63·65 | +3·46 | +5 | 8·04 | 6·08 | +1·96 | +32 | 93·08 | 92·90 | +0·18 | 0 |
| Bengal | 0·72 | 1·24 | −0·52 | −42 | 6·55 | 5·34 | +1·21 | +23 | 49·71 | 43·74 | +5·97 | +14 | 2·92 | 4·20 | −1·28 | −30 | 59·90 | 54·52 | +5·38 | +10 |
| United Provinces | 0·84 | 1·52 | −0·68 | −45 | 2·84 | 1·21 | +1·63 | +135 | 37·14 | 34·99 | +2·15 | +6 | 1·29 | 1·81 | −0·52 | −29 | 42·11 | 39·53 | +2·58 | +7 |
| Punjab | 1·60 | 2·12 | −0·52 | −25 | 2·31 | 1·70 | +0·61 | +36 | 22·06 | 16·13 | +5·93 | +37 | 1·71 | 0·81 | +0·90 | +111 | 27·68 | 20·76 | +6·92 | +33 |
| North-West Frontier Province | 2·40 | 2·71 | −0·31 | −11 | 2·00 | 3·79 | −1·79 | −47 | 12·26 | 8·60 | +3·66 | +43 | 1·99 | 1·24 | +0·75 | +60 | 18·65 | 16·34 | +2·31 | +14 |
| Sind | 0·25 | 0·53 | −0·28 | −53 | 0·15 | 0·39 | −0·24 | −62 | 5·68 | 5·49 | +0·19 | +3 | 0·20 | 0·22 | −0·02 | −9 | 6·28 | 6·63 | −0·35 | −5 |
| Rajputana | 0·32 | 0·55 | −0·23 | −42 | 1·95 | 0·64 | +1·31 | +205 | 22·91 | 19·19 | +3·72 | +19 | 0·97 | 0·68 | +0·29 | +43 | 26·15 | 21·06 | +5·09 | +24 |
| Bombay | 0·05 | 0·18 | −0·13 | −72 | 1·30 | 1·60 | −0·30 | −19 | 42·89 | 42·39 | +0·50 | +1 | 1·46 | 3·67 | −2·21 | −60 | 45·70 | 47·84 | −2·14 | −4 |
| Central India | 0·58 | 0·87 | −0·29 | −33 | 1·79 | 0·54 | +1·25 | +231 | 33·42 | 35·34 | −1·92 | −5 | 0·77 | 1·58 | −0·81 | −51 | 36·56 | 38·33 | −1·77 | −5 |
| Central Provinces | 0·66 | 0·75 | −0·09 | −12 | 2·49 | 1·17 | +1·32 | +113 | 32·70 | 36·92 | −4·22 | −11 | 2·87 | 2·55 | +0·32 | +13 | 38·72 | 41·39 | −2·67 | −6 |
| Hyderabad | 0·14 | 0·25 | −0·11 | −44 | 1·91 | 1·86 | +0·05 | +3 | 26·30 | 26·26 | +0·04 | 0 | 0·60 | 4·12 | −3·52 | −85 | 28·95 | 32·49 | −3·54 | −11 |
| Mysore | 0·90 | 0·11 | +0·79 | +718 | 8·34 | 5·35 | +2·99 | +56 | 25·17 | 22·98 | +2·19 | +10 | 6·73 | 7·78 | −1·05 | −13 | 41·14 | 36·22 | +4·92 | +14 |
| Madras | 3·12 | 0·86 | +2·26 | +263 | 7·74 | 4·51 | +3·23 | +72 | 27·36 | 24·19 | +3·17 | +13 | 6·54 | 14·53 | −7·99 | −55 | 44·76 | 44·69 | +0·07 | +2 |
| Mean of India when the size of the above areas is taken into account. | 0·85 | 0·92 | −0·07 | −8 | 5·26 | 4·52 | +0·74 | +16 | 37·35 | 35·31 | +2·04 | +6 | 3·79 | 4·42 | −0·63 | −14 | 47·25 | 45·17 | +2·08 | +5 |

**Table 82.**—*Average, over the 34 sub-divisions, of the actual and normal rainfall for the four seasons of the year 1909, 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. | Percentage departure from normal. |
| | " | " | " | | " | " | " | | " | " | " | | " | " | " | | " | " | " | |
| 1. Bay Islands | 2·16 | 1·15 | +1·01 | +88 | 18·56 | 15·45 | +3·11 | +20 | 61·91 | 60·15 | +1·76 | +3 | 30·38 | 19·62 | +10·76 | +55 | 113·01 | 96·37 | +16·64 | +17 |
| 2. Lower Burma | 0·46 | 0·25 | +0·21 | +84 | 14·68 | 14·83 | −0·15 | −1 | 102·88 | 99·23 | +3·65 | +4 | 14·56 | ·75 | +5·81 | +66 | 132·58 | 123·06 | +9·52 | +8 |
| 3. Upper Burma | 0·08 | 0·27 | −0·19 | −70 | 9·31 | 7·26 | +2·05 | +28 | 28·30 | 27·98 | +0·32 | +1 | 9·52 | 6·03 | +3·49 | +58 | 47·21 | 41·54 | +5·67 | +14 |
| 4. Assam | 1·20 | 2·22 | −1·02 | −46 | 20·15 | 27·35 | −7·20 | −26 | 61·42 | 64·45 | −3·03 | −5 | 6·49 | 6·20 | +0·29 | +5 | 89·26 | 100·22 | −10·96 | −11 |
| 5. Eastern Bengal | 0·35 | 1·29 | −0·94 | −73 | 13·96 | 15·33 | −1·37 | −9 | 72·76 | 62·85 | +9·91 | +16 | 9·59 | 5·95 | +3·64 | +61 | 96·66 | 85·42 | +11·24 | +13 |
| 6. Bengal | 0·40 | 1·32 | −0·92 | −70 | 10·23 | 8·50 | +1·73 | +20 | 54·79 | 44·52 | +10·27 | +23 | 4·54 | 4·80 | −0·26 | −5 | 69·96 | 59·14 | +10·82 | +18 |
| 7. Orissa | 0·88 | 1·03 | −0·15 | −15 | 7·83 | 5·75 | +2·08 | +36 | 46·96 | 43·98 | +2·98 | +7 | 4·03 | 6·94 | −2·91 | −42 | 59·70 | 57·70 | +2·00 | +3 |
| 8. Chota Nagpur | 1·61 | 1·28 | +0·33 | +26 | 4·46 | 3·91 | +0·55 | +14 | 47·55 | 44·87 | +2·68 | +6 | 1·45 | 3·30 | −1·85 | −56 | 55·07 | 53·36 | +1·71 | +3 |
| 9. Bihar | 0·59 | 1·24 | −0·65 | −52 | 3·81 | 3·29 | +0·52 | +16 | 47·74 | 42·70 | +5·04 | +12 | 1·53 | 2·99 | −1·46 | −49 | 53·67 | 50·22 | +3·45 | +7 |
| 10. United Provinces, East | 0·56 | 1·23 | −0·67 | −54 | 2·80 | 1·12 | +1·68 | +150 | 37·58 | 35·44 | +2·14 | +6 | 1·08 | 2·31 | −1·23 | −53 | 42·02 | 40·10 | +1·92 | +5 |
| 11. United Provinces, West | 1·15 | 1·85 | −0·70 | −38 | 2·90 | 1·31 | +1·59 | +121 | 36·64 | 34·46 | +2·18 | +6 | 1·54 | 1·25 | +0·29 | +23 | 42·23 | 38·87 | +3·36 | +9 |
| 12. Punjab, East and North | 1·82 | 2·39 | −0·57 | −24 | 2·52 | 1·81 | +0·71 | +39 | 25·63 | 18·70 | +6·93 | +37 | 1·88 | 0·91 | +0·97 | +107 | 31·85 | 23·81 | +8·04 | +34 |
| 13. Punjab Southwest | 0·75 | 1·09 | −0·34 | −31 | 1·53 | 1·29 | +0·24 | +19 | 8·22 | 6·05 | +2·17 | +36 | 1·01 | 0·40 | +0·61 | +153 | 11·51 | 8·83 | +2·68 | +30 |
| 14. Kashmir | 6·81 | 6·40 | +0·41 | +6 | 3·57 | 6·88 | −3·31 | −48 | 15·92 | 11·82 | +4·10 | +35 | 3·35 | 2·52 | +0·83 | +33 | 29·65 | 27·62 | +2·03 | +7 |
| 15. North-West Frontier Province | 2·40 | 2·71 | −0·31 | −11 | 2·00 | 3·79 | −1·79 | −47 | 12·26 | 8·60 | +3·66 | +43 | 1·99 | 1·24 | +0·75 | +60 | 18·65 | 16·34 | +2·31 | +14 |
| 16. Baluchistan | 2·43 | 2·85 | −0·42 | −15 | 1·59 | 1·78 | −0·19 | −11 | 1·72 | 2·14 | −0·42 | −20 | 1·42 | 1·52 | −0·10 | −7 | 7·16 | 8·29 | −1·13 | −14 |
| 17. Sind | 0·25 | 0·53 | −0·28 | −53 | 0·15 | 0·39 | −0·24 | −62 | 5·68 | 5·49 | +0·19 | +3 | 0·20 | 0·22 | −0·02 | −9 | 6·28 | 6·63 | −0·35 | −5 |
| 18. Rajputana, West | 0·21 | 0·29 | −0·08 | −28 | 1·15 | 0·44 | +0·71 | +161 | 16·26 | 10·67 | +5·59 | +52 | 0·67 | 0·41 | +0·26 | +63 | 18·29 | 11·81 | +6·48 | +55 |
| 19. Rajputana, East | 0·35 | 0·65 | −0·30 | −46 | 2·27 | 0·73 | +1·54 | +211 | 25·41 | 22·35 | +3·06 | +14 | 1·09 | 0·78 | +0·31 | +40 | 29·12 | 24·51 | +4·61 | +19 |
| 20. Gujarat | 0·06 | 0·15 | −0·09 | −60 | 0·35 | 0·27 | +0·08 | +30 | 34·11 | 33·47 | +0·64 | +2 | 0·34 | 1·16 | −0·82 | −71 | 34·86 | 35·05 | −0·19 | −1 |
| 21. Central India, West | 0·17 | 0·55 | −0·38 | −69 | 1·35 | 0·42 | +0·93 | +221 | 31·79 | 32·32 | −0·53 | −2 | 0·77 | 1·19 | −0·42 | −35 | 34·08 | 34·48 | −0·40 | −1 |
| 22. Central India, East | 1·33 | 1·50 | −0·17 | −11 | 2·68 | 0·79 | +1·89 | +239 | 34·91 | 41·04 | −6·13 | −15 | 0·82 | 2·32 | −1·50 | −65 | 39·74 | 45·65 | −5·91 | −13 |
| 23. Berar | 0·44 | 0·52 | −0·08 | −15 | 1·36 | 0·98 | +0·38 | +39 | 26·25 | 27·16 | −0·91 | −3 | 3·18 | 2·59 | +0·59 | +23 | 31·23 | 31·25 | −0·02 | 0 |
| 24. Central Provinces, West | 0·93 | 0·93 | 0 | 0 | 2·66 | 0·97 | +1·69 | +174 | 33·91 | 41·31 | −7·40 | −18 | 2·41 | 2·42 | −0·01 | 0 | 39·91 | 45·63 | −5·72 | −13 |
| 25. Central Provinces, East | 0·58 | 0·85 | −0·27 | −32 | 4·27 | 1·84 | +2·43 | +132 | 42·48 | 47·49 | −5·01 | −11 | 3·06 | 2·72 | +0·34 | +13 | 50·39 | 52·90 | −2·51 | −5 |
| 26. Konkan | 0·01 | 0·18 | −0·17 | −94 | 1·29 | 1·98 | −0·69 | −35 | 108·52 | 105·56 | +2·96 | +3 | 1·58 | 5·43 | −3·85 | −71 | 111·40 | 113·15 | −1·75 | −2 |
| 27. Bombay Deccan | 0·05 | 0·19 | −0·14 | −74 | 1·93 | 2·31 | −0·38 | −16 | 24·53 | 25·03 | −0·50 | −2 | 2·14 | 4·65 | −2·51 | −54 | 28·65 | 32·18 | −3·53 | −11 |
| 28. Hyderabad, North | 0·26 | 0·24 | +0·02 | +8 | 1·64 | 1·50 | +0·14 | +9 | 7·17 | 30·16 | −2·99 | −10 | 0·95 | 3·90 | −2·95 | −76 | 30·02 | 35·80 | −5·78 | −16 |
| 29. Hyderabad South | 0·03 | 0·26 | −0·23 | −88 | 2·13 | 2·15 | −0·02 | −1 | 25·55 | 23·01 | +2·54 | +11 | 0·31 | 4·30 | −3·99 | −93 | 28·02 | 29·72 | −1·70 | −6 |
| 30. Mysore | 0·90 | 0·11 | +0·79 | +718 | 8·34 | 5·35 | +2·99 | +56 | 25·17 | 22·98 | +2·19 | +10 | 6·73 | 7·78 | −1·05 | −13 | 41·14 | 36·22 | +4·92 | +14 |
| 31. Malabar | 1·78 | 0·46 | +1·38 | +345 | 22·49 | 10·55 | +11·94 | +113 | 102·28 | 102·82 | −0·54 | −1 | 11·45 | 14·99 | −3·54 | −24 | 138·00 | 128·7 | +9·24 | +7 |
| 32. Madras Southeast | 4·95 | 1·21 | +3·74 | +309 | 7·09 | 4·58 | +2·51 | +55 | 15·33 | 11·89 | +3·44 | +29 | 8·78 | 17·98 | −9·20 | −51 | 36·15 | 35·66 | +0·49 | +1 |
| 33. Madras Deccan | 1·60 | 0·21 | +1·39 | +662 | 3·98 | 2·51 | +1·47 | +59 | 20·18 | 14·67 | +5·51 | +38 | 1·08 | 7·38 | −6·30 | −85 | 26·84 | 24·77 | +2·07 | +8 |
| 34. Madras Coast, North | 1·26 | 0·70 | +0·56 | +80 | 6·00 | 3·42 | +2·58 | +75 | 27·17 | 24·32 | +2·85 | +12 | 3·85 | 11·93 | −8·08 | −68 | 38·28 | 40·37 | −2·09 | −5 |

TABLE 83.—*Average over the 34 sub-divisions, of the actual and normal number of rainy days for the four seasons of the year, 1909, 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 | 4·5 | 2·4 | +2·1 | 24·5 | 20·4 | +4·1 | 75·0 | 82·0 | −7·0 | 29·0 | 29·8 | −0·8 | 133·0 | 134·6 | −1·6 |
| 2. Lower Burma | 0·8 | 0·4 | +0·4 | 16·5 | 16·6 | −0·1 | 91·5 | 90·1 | +1·4 | 21·5 | 12·3 | +9·2 | 130·3 | 119·4 | +10·9 |
| 3. Upper Burma | 0·2 | 0·7 | −0·5 | 13·0 | 11·0 | +2·0 | 40·3 | 40·0 | +0·3 | 15·9 | 9·1 | +6·8 | 69·4 | 60·8 | +8·6 |
| 4. Assam | 3·3 | 5·2 | −1·9 | 28·9 | 33·3 | −4·4 | 65·3 | 67·8 | −2·5 | 9·1 | 8·5 | +0·6 | 106·6 | 114·8 | −8·2 |
| 5. Eastern Bengal | 1·0 | 2·3 | −1·3 | 17·5 | 17·6 | −0·1 | 64·9 | 62·8 | +2·1 | 9·0 | 6·1 | +2·9 | 92·4 | 88·8 | +3·6 |
| 6. Bengal | 1·2 | 2·3 | −1·1 | 15·6 | 12·1 | +3·5 | 62·5 | 56·0 | +6·5 | 5·6 | 5·8 | −0·2 | 84·9 | 76·2 | +8·7 |
| 7. Orissa | 1·7 | 1·8 | −0·1 | 12·4 | 8·9 | +3·5 | 59·7 | 52·7 | +7·0 | 4·5 | 7·8 | −3·3 | 78·3 | 71·2 | +7·1 |
| 8. Chota Nagpur | 3·3 | 2·7 | +0·6 | 8·7 | 7·1 | +1·6 | 58·4 | 53·6 | +4·8 | 3·1 | 4·7 | −1·6 | 73·5 | 68·1 | +5·4 |
| 9. Bihar | 2·0 | 2·6 | −0·6 | 6·6 | 5·2 | +1·4 | 51·1 | 46·7 | +4·4 | 2·3 | 3·5 | −1·2 | 62·0 | 58·0 | +4·0 |
| 10. United Provinces, East | 2·1 | 2·7 | −0·6 | 5·1 | 2·4 | +2·7 | 43·4 | 38·4 | +5·0 | 2·1 | 2·5 | −0·4 | 52·7 | 46·0 | +6·7 |
| 11. United Provinces, West | 3·4 | 3·6 | −0·2 | 5·3 | 3·1 | +2·2 | 39·3 | 34·9 | +4·4 | 3·4 | 1·9 | +1·5 | 51·4 | 43·5 | +7·9 |
| 12. Punjab, East and North | 3·6 | 4·6 | −1·0 | 4·4 | 4·0 | +0·4 | 29·2 | 20·0 | +9·2 | 3·1 | 1·6 | +1·5 | 40·3 | 30·2 | +10·1 |
| 13. Punjab, Southwest | 2·2 | 2·6 | −0·4 | 3·5 | 3·1 | +0·4 | 11·1 | 8·2 | +2·9 | 2·1 | 0·9 | +1·2 | 18·9 | 14·8 | +4·1 |
| 14. Kashmir | 10·6 | 10·0 | +0·6 | 7·4 | 13·3 | −5·9 | 22·8 | 16·9 | +5·9 | 5·5 | 5·5 | 0 | 46·3 | 45·7 | +0·6 |
| 15. North-West Frontier Province | 4·6 | 5·3 | −0·7 | 6·1 | 7·6 | −1·5 | 16·6 | 11·6 | +5·0 | 3·1 | 2·3 | +0·8 | 30·4 | 26·8 | +3·6 |
| 16. Baluchistan | 6·0 | 6·6 | −0·6 | 4·1 | 4·8 | −0·7 | 3·0 | 3·7 | −0·7 | 3·2 | 3·5 | −0·3 | 16·3 | 18·6 | −2·3 |
| 17. Sind | 0·7 | 1·5 | −0·8 | 0·5 | 1·0 | −0·5 | 6·9 | 6·2 | +0·7 | 0·6 | 0·5 | +0·1 | 8·7 | 9·2 | −0·5 |
| 18. Rajputana, West | 0·6 | 0·8 | −0·2 | 2·3 | 1·1 | +1·2 | 21·1 | 13·4 | +7·7 | 1·3 | 0·8 | +0·5 | 25·3 | 16·1 | +9·2 |
| 19. Rajputana, East | 1·0 | 1·6 | −0·6 | 4·4 | 1·9 | +2·5 | 33·4 | 27·6 | +5·8 | 2·3 | 1·6 | +0·7 | 41·1 | 32·7 | +8·4 |
| 20. Gujarat | 0·2 | 0·3 | −0·1 | 0·7 | 0·6 | +0·1 | 41·3 | 36·4 | +4·9 | 0·9 | 1·6 | −0·7 | 43·1 | 38·9 | +4·2 |
| 21. Central India, West | 0·4 | 1·2 | −0·8 | 3·1 | 0·9 | +2·2 | 41·1 | 39·2 | +1·9 | 1·7 | 2·3 | −0·6 | 46·3 | 43·6 | +2·7 |
| 22. Central India, East | 3·5 | 3·1 | +0·4 | 4·6 | 1·9 | +2·7 | 46·0 | 44·3 | +1·7 | 2·9 | 3·1 | −0·2 | 57·0 | 52·4 | +4·6 |
| 23. Berar | 0·9 | 1·1 | −0·2 | 3·6 | 1·9 | +1·7 | 37·9 | 38·1 | −0·2 | 6·6 | 3·6 | +3·0 | 49·0 | 44·7 | +4·3 |
| 24. Central Provinces, West | 2·6 | 1·8 | +0·8 | 5·3 | 2·3 | +3·0 | 45·7 | 47·1 | −1·4 | 4·8 | 3·5 | +1·3 | 58·4 | 54·7 | +3·7 |
| 25. Central Provinces, East | 1·5 | 1·6 | −0·1 | 8·4 | 3·9 | +4·5 | 55·3 | 51·7 | +3·6 | 5·1 | 3·9 | +1·2 | 70·3 | 61·1 | +9·2 |
| 26. Konkan | 0 | 0·3 | −0·3 | 1·4 | 2·7 | −1·3 | 89·7 | 85·9 | +3·8 | 2·6 | 7·7 | −5·1 | 93·7 | 96·6 | −2·9 |
| 27. Bombay Deccan | 0·2 | 0·4 | −0·2 | 3·6 | 4·4 | −0·8 | 38·8 | 38·3 | +0·5 | 3·9 | 7·0 | −3·1 | 46·5 | 50·1 | −3·6 |
| 28. Hyderabad, North | 0·7 | 0·5 | +0·2 | 3·6 | 3·6 | 0 | 40·5 | 42·3 | −1·8 | 1·7 | 5·9 | −4·2 | 46·5 | 52·3 | −5·8 |
| 29. Hyderabad, South | 0·1 | 0·6 | −0·5 | 4·4 | 4·3 | +0·1 | 42·4 | 37·7 | +4·7 | 0·5 | 7·0 | −6·5 | 47·4 | 49·6 | −2·2 |
| 30. Mysore | 1·9 | 0·2 | +1·7 | 10·3 | 9·0 | +1·3 | 37·6 | 33·1 | +4·5 | 10·3 | 11·8 | −1·5 | 60·1 | 54·1 | +6·0 |
| 31. Malabar | 2·4 | 0·4 | +2·0 | 11·8 | 13·5 | −1·7 | 84·1 | 86·9 | −2·8 | 15·9 | 19·0 | −3·1 | 114·2 | 119·8 | −5·6 |
| 32. Madras, Southeast | 4·7 | 1·7 | +3·0 | 9·3 | 6·4 | +2·9 | 21·5 | 18·3 | +3·2 | 12·4 | 21·2 | −8·8 | 47·9 | 47·6 | +0·3 |
| 33. Madras, Deccan | 2·1 | 0 | +2·1 | 6·7 | 4·5 | +2·2 | 30·2 | 24·6 | +5·3 | 2·3 | 10·5 | −8·2 | 41·3 | 39·6 | +1·7 |
| 34. Madras Coast, North | 1·1 | 0·9 | +0·2 | 9·7 | 5·4 | +4·3 | 41·1 | 35·4 | +5·7 | 3·1 | 12·0 | −8·9 | 55·0 | 53·7 | +1·3 |

**I.—The cold weather period.**—Over a large part of the plains of northern and central India the cold weather season of 1909, was unusually dry. A considerable number of disturbances advanced into or were formed in Persia, but only four were transmitted into India, and even these were of no great vitality. The rest moved along paths which led them into northern Afghanistan or Turkistan, and their influence on the Indian weather was accordingly exerted mainly in Baluchistan and Kashmir. In addition, unsettled conditions were recorded on three occasions in the central parts of the country and were the cause of numerous thundershowers.

Weather was on the other hand abnormally rainy in the beginning of January over the southern half of the peninsula owing to the passage of a storm from the Bay, and in February in the Bay Islands and Lower Burma.

(*a*) The combined precipitation of the two months fell far short of the normal over nearly the whole of the plains of northern and central India, the greater part of the Deccan and in the interior of Burma. It was on the other hand exceptionally heavy for the time of year in Madras, Mysore, the Andamans and Lower Burma—a circumstance usually prejudicial to the occurrence of rain in northwest India.

TABLE 84.

| Division. | Rainfall of period January and February. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Burma | 0·26 | 0·26 | 0 | 0 |
| Eastern Bengal and Assam | 0·80 | 1·77 | −0·97 | −55 |
| Bengal | 0·72 | 1·24 | −0·52 | −42 |
| United Provinces | 0·84 | 1·52 | −0·68 | −45 |
| Punjab | 1·60 | 2·12 | −0·52 | −25 |
| North-West Frontier Province | 2·40 | 2·71 | −0·31 | −11 |
| Sind | 0·25 | 0·53 | −0·28 | −53 |
| Rajputana | 0·32 | 0·55 | −0·23 | −42 |
| Bombay | 0·05 | 0·18 | −0·13 | −72 |
| Central India | 0·58 | 0·87 | −0·29 | −33 |
| Central Provinces | 0·66 | 0·75 | −0·09 | −12 |
| Hyderabad | 0·14 | 0·25 | −0·11 | −44 |
| Mysore | 0·90 | 0·11 | +0·79 | +718 |
| Madras | 3·12 | 0·86 | +2·26 | +263 |
| Mean of India when the size of the above areas is taken into account. | 0·85 | 0·92 | −0·07 | −8 |

There was thus a decided deficiency in the winter rains of northern India.

(*b*) Weather was on the whole as dry in Persia, Baluchistan and eastern Turkistan as in the plains of northwest India. In Afghanistan and Kashmir on the other hand the cold weather conditions were more disturbed than usual. In the equatorial region the recorded rainfall was almost identical with the normal at Zanzibar, and nearly two inches in excess at the Seychelles. There was thus no evidence of any unusual ascensional movement in the west of the equatorial belt.

TABLE 85.

| Station. | Rainfall of period January and February. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Zanzibar | 5·60 | 5·75 | −0·15 | −3 |
| Seychelles | 31·93 | 30·15 | +1·78 | +6 |
| Mauritius | 12·61 | 14·74 | −2·13 | −14 |
| Perim | 0·10 | 0·60 | −0·50 | −83 |
| Aden | 0·12 | 0·61 | −0·49 | −80 |
| Baghdad | 0·76 | 3·55 | −2·79 | −79 |
| Ispahan | 3·06 | 0·43 | +2·63 | +612 |
| Tehran | 1·96 | 2·11 | −0·15 | −7 |
| Bushire | 3·87 | 5·47 | −1·60 | −29 |
| Jask | 1·37 | 1·84 | −0·47 | −26 |
| Muscat | 4·52 | 2·06 | +2·46 | +119 |
| Meshed | 1·18 | 1·44 | −0·26 | −18 |
| Chaman | 3·11 | 3·05 | +0·06 | +2 |
| Quetta | 4·06 | 4·24 | −0·18 | −4 |
| Kabul | 4·38 | 2·22 | +2·16 | +97 |
| Gilgit | 0·44 | 0·37 | +0·07 | +19 |
| Srinagar | 6·16 | 6·29 | −0·13 | −2 |
| Kashgar | 0 | 0·39 | −0·39 | −100 |
| Leh | 0·99 | 0·66 | +0·33 | +50 |

## II.—The hot weather period.

The dry weather which had characterised February was prolonged into March, for which month the total monthly rainfall in the plains was as much as 83 per cent below the normal. In fact in respect of dryness the month was almost unique, being surpassed only by March 1898. In April on the other hand the weather was abnormally rainy over the

whole land area with the exception of Assam, Kashmir, the North-West Frontier Province and the west of the peninsula. The excess in the rainfall was more than 200 per cent in amount over practically the whole of the region stretching north-westwards from Bengal and north Madras to the Indus, and was absolutely greatest in Central India which received twenty times its normal supply. This unusually heavy precipitation was connected with two depressions of the cold weather type, the rain-producing action of which was supplemented largely by a strong influx of damp winds from the neighbouring seas occasioned by favourable pressure conditions over northern India. In May, the final month of the season, the aggregate quantity recorded over the country as a whole was within 1 per cent of the normal, but the local distribution was unsatisfactory, Burma and a large part of the peninsula and central India having received an excessive, and northern India a deficient, fall.

(*a*) The aggregate fall of the three months in the plains of India was 16 per cent in excess of the normal; in this feature the season contrasted strongly with the corresponding period of 1908 which was on the whole unusually dry.

(*b*) The excess was not however universal, for Assam, Eastern Bengal, the North-West Frontier Province, Sind, the Konkan and the Bombay Deccan failed to receive their due share, although the amount of deficit was not large in actual amount except in the case of Assam. In the United Provinces, Rajputana, Central India, the Central Provinces and Malabar the fall was double to triple the normal amount, and in the rest of Madras and in Mysore the usual quantity was also greatly exceeded.

TABLE 86.

| DIVISION. | RAINFALL OF PERIOD, MARCH TO MAY. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Burma | 11·74 | 10·70 | + 1·04 | + 10 |
| Eastern Bengal and Assam | 17·13 | 21·40 | — 4·27 | — 20 |
| Bengal | 6·55 | 5·34 | + 1·21 | + 23 |
| United Provinces | 2·84 | 1·21 | + 1·63 | + 135 |
| Punjab | 2·31 | 1·70 | + 0·61 | + 36 |
| North-West Frontier Province | 2·00 | 3·79 | — 1·79 | — 47 |
| Sind | 0·15 | 0·39 | — 0·24 | — 62 |
| Rajputana | 1·95 | 0·64 | + 1·31 | + 205 |
| Bombay | 1·30 | 1·60 | — 0·30 | — 19 |
| Central India | 1·79 | 0·54 | + 1·25 | + 231 |
| Central Provinces | 2·49 | 1·17 | + 1·32 | + 113 |
| Hyderabad | 1·91 | 1·86 | + 0·05 | + 3 |
| Mysore | 8·34 | 5·35 | + 2·99 | + 56 |
| Madras | 7·74 | 4·51 | + 3·23 | + 72 |
| Mean of India when the size of the above areas is taken into account. | 5·26 | 4·52 | + 0·74 | + 16 |

(*c*) In the regions beyond upper India the weather was on the whole much drier than usual. The distribution was variable in the Indian Ocean where Zanzibar received 39 per cent more, and the Seychelles and Mauritius about 38 per cent less than the normal quantity of precipitation. The excess at Zanzibar was due chiefly to heavy precipitation in April.

TABLE 87.

| STATION. | RAINFALL OF PERIOD, MARCH TO MAY. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Zanzibar | 40·65 | 29·20 | + 11·45 | + 39 |
| Seychelles | 14·71 | 23·40 | — 8·69 | — 37 |
| Mauritius | 10·97 | 18·08 | — 7·11 | — 39 |
| Perim | 0 | 0·66 | — 0·66 | — 100 |
| Aden | 0 | 1·44 | — 1·44 | — 100 |
| Baghdad | 0·75 | 2·80 | — 2·05 | — 73 |
| Ispahan | 2·21 | 1·48 | + 0·73 | + 49 |
| Tehran | 3·25 | 4·31 | — 1·06 | — 25 |
| Bushire | 1·93 | 1·53 | + 0·40 | + 26 |
| Jask | 0·33 | 1·18 | — 0·85 | — 72 |
| Muscat | 0 | 1·08 | — 1·08 | — 100 |
| Meshed | 3·03 | 4·95 | — 1·92 | — 39 |
| Chaman | 2·65 | 1·79 | + 0·86 | + 48 |
| Quetta | 2·44 | 3·31 | — 0·87 | — 26 |
| Kabul | 9·00 | 7·68 | + 1·32 | + 17 |
| Gilgit | 1·09 | 2·31 | — 1·22 | — 53 |
| Srinagar | 7·06 | 8·43 | — 1·37 | — 16 |
| Kashgar | 0·30 | 1·20 | — 0·90 | — 75 |
| Leh | 0·36 | 0·60 | — 0·24 | — 40 |

## III.—The south-west monsoon period.

As judged by the total amount of rain provided by them the monsoon currents of 1909 were quite as vigorous as those of 1908.

As in June 1889, the first burst of the monsoon occurred about the normal date on the west coast of the peninsula, and a week before the usual time in northeast India. The Bay current extended with great rapidity over the Gangetic plain, with the result that the rains there were established by the 8th, nearly two weeks earlier than usual. The advance inland of the Arabian Sea current on the other hand was unusually slow and was not completed until nearly the end of the month. Strongly marked monsoon conditions prevailed during July, particularly in northwest India. In August on the other hand both branches of the monsoon were less steady than usual and a well-marked break in the rains obtained over the greater part of the country. In September the rain-producing capacity of the monsoon was on the whole lower than usual, but as in July there was an abnormal set of the current to upper India during the first nine or ten days. As in 1908 the final cessation of the monsoon rains in upper India occurred on the 11th, which is within a few days of the normal date.

(*a*) The rainfall of the season as a whole was favourably distributed, differing by less than 15 per cent from the normal in twenty-two of the thirty-four sub-divisions. The greatest defect occurred in the region comprising the Central Provinces and Central India East, and was in amount about 6″ which represents however only one-seventh of the quantity received there under normal conditions. Rainfall was on the other hand unusually heavy for the time of year in the comparatively dry areas of the Punjab (+ 37 per cent.), the North-West Frontier Province (+ 43 per cent), Rajputana West (+ 52 per cent), Kashmir (+ 35 per cent), the Madras Deccan (+ 38 per cent) and Madras Southeast (+ 29 per cent).

TABLE 88.

| Sub-division. | Rainfall June to September. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | ″ | ″ | ″ | |
| 1. Bay Islands | 61·91 | 60·15 | + 1·76 | + 3 |
| 2. Lower Burma | 102·88 | 99·23 | + 3·65 | + 4 |
| 3. Upper Burma | 28·30 | 27·98 | + 0·32 | + 1 |
| 4. Assam | 61·42 | 64·45 | — 3·03 | — 5 |
| 5. Eastern Bengal | 72·76 | 62·85 | + 9·91 | +16 |
| 6. Bengal | 54·79 | 44·52 | + 10·27 | + 23 |
| 7. Orissa | 46·96 | 43·98 | + 2·98 | + 7 |
| 8. Chota Nagpur | 47·55 | 44·87 | + 2·68 | + 6 |
| 9. Bihar | 47·74 | 42·70 | + 5·04 | +12 |
| 10. United Provinces, East | 37·58 | 35·44 | + 2·14 | + 6 |
| 11. United Provinces, West | 36·64 | 34·46 | + 2·18 | + 6 |
| 12. Punjab, East and North | 25·63 | 18·70 | + 6·93 | +37 |
| 13. Punjab, South-west | 8·22 | 6·05 | + 2·17 | +36 |
| 14. Kashmir | 15·92 | 11·82 | + 4·10 | + 35 |
| 15. North-West Frontier Province. | 12·26 | 8·60 | + 3·66 | + 43 |
| 16. Baluchistan | 1·72 | 2·14 | — 0·42 | —20 |
| 17. Sind | 5·68 | 5·49 | + 0·19 | + 3 |
| 18. Rajputana, West | 16·26 | 10·67 | + 5·59 | +52 |
| 19. Do., East | 25·41 | 22·35 | + 3·06 | +14 |
| 20. Gujarat | 34·11 | 33·47 | + 0·64 | + 2 |
| 21. Central India, West | 31·79 | 32·32 | — 0·53 | — 2 |
| 22. Do., East | 34·91 | 41·04 | — 6·13 | —15 |
| 23. Berar | 26·25 | 27·16 | — 0·91 | — 3 |
| 24. Central Provinces, West | 33·91 | 41·31 | — 7·40 | —18 |
| 25. Do., East | 42·48 | 47·49 | — 5·01 | —11 |
| 26. Konkan | 108·52 | 105·56 | + 2·96 | + 3 |
| 27. Bombay (Deccan) | 24·53 | 25·03 | — 0·50 | — 2 |
| 28. Hyderabad, North | 27·17 | 30·16 | — 2·99 | —10 |
| 29. Do., South | 25·55 | 23·01 | + 2·54 | + 11 |
| 30. Mysore | 25·17 | 22·98 | + 2·19 | + 10 |
| 31. Malabar | 102·28 | 102·82 | — 0·54 | — 1 |
| 32. Madras, Southeast | 15·33 | 11·89 | + 3·44 | + 29 |
| 33. Do. Deccan | 20·18 | 14·67 | + 5·51 | + 38 |
| 34. Do. Coast, North | 27·17 | 24·32 | + 2·85 | +12 |

(*b*) Weather was as dry in Persia as in Baluchistan: it was on the other hand more rainy than usual in Afghanistan and at Aden and Perim.

TABLE 89.

| Station. | Rainfall of period, June to September. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Perim | 0·88 | 0·47 | + 0·41 | + 87 |
| Aden | 0·60 | 0·31 | + 0·29 | + 94 |
| Baghdad | 0 | 0·09 | — 0·09 | —100 |
| Ispahan | 0·06 | 0·06 | 0 | 0 |
| Tehran | 0·27 | 0·64 | — 0·37 | — 58 |
| Bushire | 0 | 0 | 0 | 0 |
| Jask | 0 | 0·13 | — 0·13 | —100 |
| Muscat | 0 | 0·40 | — 0·40 | —100 |
| Meshed | 0·01 | 0·27 | — 0·26 | — 96 |
| Chaman | 0 | 0·23 | — 0·23 | —100 |
| Quetta | 0·39 | 1·92 | — 1·53 | — 80 |
| Kabul | 1·77 | 0·62 | + 1·15 | +185 |
| Gilgit | 2·32 | 1·78 | + 0·54 | + 30 |
| rinagar | 15·41 | 7·81 | + 7·60 | + 97 |
| Kashgar | 1·95 | 2·13 | — 0·18 | — 8 |
| Leh | 1·47 | 1·31 | + 0·16 | + 12 |

(c) The total quantity recorded during the period was within 10 per cent of the normal at Zanzibar, 69 per cent in defect at the Seychelles, and largely above the average at Mauritius. From the scantiness of precipitation at Seychelles it is evident that the conditions in the equatorial region were on the whole favourable to the Indian rainfall.

TABLE 90.

| Station. | Rainfall of period, June to September. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Zanzibar | 8·48 | 7·78 | + 0·70 | + 9 |
| Seychelles | 4·90 | 15·56 | —10·66 | — 69 |
| Mauritius | 20·22 | 8·02 | +12·20 | +152 |

## IV.—The retreating southwest monsoon period.

The monsoon was very weak during this period, though not quite to the same extent as in the corresponding seasons of the two previous years. After retreating from the Gangetic plain and the Central Provinces in the fourth week of September the current was directed chiefly to the Bay Islands, Burma and Eastern Bengal which areas accordingly received abundant rainfall in October at the expense of the peninsula. The defect in the latter region was universal and was most marked in the north coast of Madras where the autumnal rains which ordinarily set in during the second week of October had not begun by the end of the month. In northwestern and central India the conditions were even more settled than usual.

No significant change occurred in the activity of the monsoon current until December 7 when the rains ceased finally in Burma and the Andamans. Weather was abnormally dry in this period in the peninsula and as a result the drought there became still further emphasized. In northwestern and central India weather was even more quiet than usual up till the 12th of December, but subsequently two disturbances of a somewhat peculiar character occurred and gave rise to widespread and in places heavy precipitation.

The most striking features of the season were thus (a) the almost complete failure of the autumnal rains over the peninsula and (b) the somewhat early commencement of the winter rains in northern and central India.

(a) The distribution of rainfall in northern and central India was characterized by much irregularity : thus the total measurements of the period were up to the average in Assam, Bengal, the Central Provinces, Sind and Baluchistan, below the normal in Bihar, Chota Nagpur, the United Provinces East, Gujarat and Central India, and in decided excess in East Bengal, the United Provinces West, the Punjab, Kashmir, the North-West Frontier Province, Rajputana and Berar. On the other hand the total precipitation of the period October to December fell far short of the normal over the peninsula, the deficit being serious in Hyderabad and the Madras Deccan which received less than one-sixth of their normal supply.

TABLE 91.

| Sub-division. | Rainfall, October to December. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Assam | 6·49 | 6·20 | + 0·29 | + 5 |
| Eastern Bengal | 9·59 | 5·95 | + 3·64 | + 61 |

| Sub-division. | Rainfall October to December. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Bengal | 4·54 | 4·80 | — 0·26 | — 5 |
| Orissa | 4·03 | 6·94 | — 2·91 | — 42 |
| Chota Nagpur | 1·45 | 3·30 | — 1·85 | — 56 |
| Bihar | 1·53 | 2·99 | — 1·46 | — 49 |
| United Provinces, East | 1·08 | 2·31 | — 1·23 | — 53 |
| Do. do. West | 1·54 | 1·25 | + 0·29 | + 23 |
| Punjab, East and North | 1·88 | 0·91 | + 0·97 | +107 |
| Punjab, South-west | 1·01 | 0·40 | + 0·61 | +153 |
| Kashmir | 3·35 | 2·52 | + 0·83 | + 33 |
| North-West Frontier Province | 1·99 | 1·24 | + 0·75 | + 60 |
| Baluchistan | 1·42 | 1·52 | — 0·10 | — 7 |
| Sind | 0·20 | 0·22 | — 0·02 | — 9 |
| Rajputana, West | 0·67 | 0·41 | + 0·26 | + 63 |
| Do., East | 1·09 | 0·78 | + 0·31 | + 40 |
| Gujarat | 0·34 | 1·16 | — 0·82 | — 71 |
| Central India, West | 0·77 | 1·19 | — 0·42 | — 35 |
| Do., East | 0·82 | 2·32 | — 1·50 | — 65 |
| Berar | 3·18 | 2·59 | + 0·59 | + 23 |
| Central Provinces, West | 2·41 | 2·42 | — 0·01 | 0 |
| Do., East | 3·06 | 2·72 | + 0·34 | + 13 |
| Konkan | 1·58 | 5·43 | — 3·85 | — 71 |
| Bombay Deccan | 2·14 | 4·65 | — 2·51 | — 54 |
| Hyderabad, North | 0·95 | 3·90 | — 2·95 | — 76 |
| Do., South | 0·31 | 4·30 | — 3·99 | — 93 |
| Mysore | 6·73 | 7·78 | — 1·05 | — 13 |
| Malabar | 11·45 | 14·99 | — 3·54 | — 24 |
| Madras, Southeast | 8·78 | 17·98 | — 9·20 | — 51 |
| Do. Deccan | 1·08 | 7·38 | — 6·30 | — 85 |
| Do. Coast, North | 3·85 | 11·93 | — 8·08 | — 68 |

(*b*) As is usually the case the drought in the peninsula was associated with the occurrence of abundant precipitation in the regions constituting the eastern margin of the field of the Bay current in this season.

Table 92.

| Sub-division. | Rainfall, October to December. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Bay Islands | 30·38 | 19·62 | +10·76 | + 55 |
| Lower Burma | 14·56 | 8·75 | + 5·81 | + 66 |
| Upper Burma | 9·52 | 6·03 | + 3·49 | + 58 |

(*c*) Weather was much drier than usual in eastern Turkistan, Afghanistan and Persia excluding the maritime tract, an indication that the excessive precipitation in northwest India was not a result purely of the ordinary winter actions.

(*d*) In the Indian Ocean the precipitation of the period was abnormally heavy at Zanzibar, and very deficient at Seychelles and Mauritius.

Table 93.

| Station. | Rainfall of period, October to December. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | " | " | " | |
| Zanzibar | 30·36 | 16·78 | +13·58 | + 81 |
| Seychelles | 22·92 | 30·10 | — 7·18 | — 24 |
| Mauritius | 4·06 | 8·47 | — 4·41 | — 52 |
| Perim | 0·02 | 0·19 | — 0·17 | — 89 |
| Aden | 0 | 0·61 | — 0·61 | —100 |
| Baghdad | 1·27 | 2·60 | — 1·33 | — 51 |
| Ispahan | 0·23 | 1·67 | — 1·44 | — 86 |
| Tehran | 1·51 | 2·43 | — 0·92 | — 38 |
| Bushire | 8·49 | 5·11 | + 3·38 | + 66 |
| Jask | 4·72 | 1·31 | + 3·41 | +260 |
| Muscat | 2·14 | 0·89 | + 1·25 | +140 |
| Meshed | 1·33 | 1·63 | — 0·30 | — 18 |
| Kabul | 0·52 | 1·33 | — 0·81 | — 61 |
| Kashgar | 0 | 0·27 | — 0·27 | —100 |

**The year.**—On the average of the whole of the plains of India the year 1909 was more rainy than usual. The excess was not distributed over all the twelve months, but occurred mainly in January, April, June, July and December: and the total fall of the year was above the normal by 2″·1 or 5 per cent, which is the largest excess on record since 1894.

TABLE 94.

| Period. | Rainfall of India (when the size of areas is taken into account) in 1909. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | ″ | ″ | ″ | |
| Cold weather | 0·85 | 0·92 | —0·07 | —8 |
| Hot „ | 5·26 | 4·52 | +0·74 | +16 |
| South-west monsoon | 37·35 | 35·31 | +2·04 | +6 |
| Retreating south-west monsoon | 3·79 | 4·42 | —0·63 | —14 |
| Whole year | 47·25 | 45·17 | +2·08 | +5 |

The local distribution was satisfactory, the rainfall being in excess in all the larger provinces with the exception of Sind, Bombay, the Central Provinces, Central India and Hyderabad, but it was only in the last named area that the deficit was at all appreciable.

The rainiest region by percentage comparison with the normal consisted of the Punjab and Rajputana, where the monsoon was abnormally active, although not to the same extent as in 1908.

TABLE 95.

| Division. | Annual rainfall. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | ″ | ″ | ″ | |
| Burma | 85·88 | 78·44 | +7·44 | +9 |
| Eastern Bengal and Assam | 93·08 | 92·90 | +0·18 | 0 |
| Bengal | 59·90 | 54·52 | +5·38 | +10 |
| United Provinces | 42·11 | 39·53 | +2·58 | +7 |
| Punjab | 27·68 | 20·76 | +6·92 | +33 |
| North-West Frontier Province | 18·65 | 16·34 | +2·31 | +14 |
| Sind | 6·28 | 6·63 | —0·35 | —5 |
| Rajputana | 26·15 | 21·06 | +5·09 | +24 |
| Bombay | 45·70 | 47·84 | —2·14 | —4 |
| Central India | 36·56 | 38·33 | —1·77 | —5 |
| Central Provinces | 38·72 | 41·39 | —2·67 | —6 |
| Hyderabad | 28·95 | 32·49 | —3·54 | —11 |
| Mysore | 41·14 | 36·22 | +4·92 | +14 |
| Madras | 44·76 | 44·09 | +0·67 | +2 |
| Mean of India when the size of the above areas is taken into account. | 47·25 | 45·17 | +2·08 | +5 |

In the Indian Ocean the precipitation was very irregularly distributed, being deficient at the Seychelles, nearly normal in amount at Mauritius and markedly above the average at Zanzibar. The excessive precipitation at Zanzibar occurred chiefly in the spring and autumn months, and not in May when it has a decidedly prejudicial effect on the Indian monsoon.

TABLE 96.

| Station. | Annual rainfall. | | | |
|---|---|---|---|---|
| | Actual. | Normal. | Departure from normal. | Percentage departure from normal. |
| | ″ | ″ | ″ | |
| Seychelles | 74·46 | 99·21 | —24·75 | —25 |
| Zanzibar | 85·09 | 59·51 | +25·58 | +43 |
| Mauritius | 47·86 | 49·31 | —1·45 | —3 |

HEM RAJ.

Table A.—Abstract of observations taken at 10 hrs. and 16 hrs. at 36 stations in India, etc., in the year 1909.

**Table**

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

| Number of sub-division. | Station. | Elevation of barometer 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 S.L., 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 |
| | **I.—Burma.** | | | | | | | | | | | | | | | | | |
| 2 | Rangoon | 18 | 29·894 | 29·777 | ·117 | 29·837 | —·005 | 29·703 | 89·2 | 71·0 | 15·2 | 101·8 | 62·5 | 39·3 | 82·5 | 86·1 | 79·6 | +0·4 |
| | **III.—Bengal.** | | | | | | | | | | | | | | | | | |
| 6 | Calcutta | 21 | ·839 | ·721 | ·118 | ·779 | —·009 | ·745 | 88·1 | 70·8 | 17·3 | 102·7 | 51·0 | 51·7 | 81·9 | 85·5 | 78·9 | +0·9 |
| | **IV.—United Provinces of Agra and Oudh.** | | | | | | | | | | | | | | | | | |
| 10 | Allahabad | 309 | ·541 | ·422 | ·119 | ·468 | +·001 | ·739 | 89·7 | 66·4 | 23·3 | 112·3 | 39·5 | 72·8 | 81·4 | 87·8 | 77·0 | —0·3 |
| 11 | Dehra Dun | 2,233 | 27·606 | 27·522 | ·084 | 27·567 | +·015 | ·754 | 81·5 | 60·3 | 21·2 | 102·6 | 34·5 | 68·1 | 73·4 | 77·6 | 70·1 | —0·1 |
| | **V.—Punjab.** | | | | | | | | | | | | | | | | | |
| 12 | Lahore | 702 | 29·124 | 29·031 | ·093 | 29·069 | —·002 | ·742 | 88·1 | 62·7 | 25·4 | 115·2 | 34·1 | 81·1 | 78·2 | 86·1 | 74·3 | —0·4 |
| | **VIII.—Rajputana.** | | | | | | | | | | | | | | | | | |
| 19 | Jaipur | 1,431 | 28·432 | 28·328 | ·104 | 28·374 | —·003 | ·757 | 89·4 | 65·0 | 24·4 | 111·7 | 36·0 | 75·7 | 81·2 | 86·8 | 76·0 | —1·1 |
| | Udaipur | 1,925 | 27·954 | 27·855 | ·099 | 27·901 | ... | ·766 | 86·4 | 61·0 | 22·4 | 109·0 | 38·8 | 70·2 | 79·9 | 84·6 | 75·0 | ... |
| | **IX.—Bombay.** | | | | | | | | | | | | | | | | | |
| 26 | Bombay | 37 | 29·871 | 29·771 | ·100 | 29·818 | —·009 | ·735 | 85·9 | 74·7 | 11·2 | 95·4 | 61·3 | 34·1 | 80·1 | 81·9 | 79·2 | —0·1 |
| | **XI.—Central Provinces.** | | | | | | | | | | | | | | | | | |
| 24 | Nagpur | 1,917 | 28·847 | 28·715 | ·132 | 28·780 | 0 | ·750 | 91·5 | 68·4 | 23·1 | 111·1 | 49·8 | 61·3 | 82·3 | 88·7 | 79·1 | —0·5 |
| | **XII.—Hyderabad.** | | | | | | | | | | | | | | | | | |
| 29 | Hyderabad | 1,690 | ·198 | ·077 | ·121 | ·138 | —·006 | ·757 | 90·6 | 69·5 | 21·1 | 106·8 | 54·2 | 52·6 | 82·4 | 87·4 | 79·1 | +0·6 |
| | **XIII.—Mysore.** | | | | | | | | | | | | | | | | | |
| 30 | Bangalore | 3,021 | 26·939 | 26·826 | ·113 | 26·886 | —·015 | ·777 | 85·2 | 64·5 | 20·7 | 96·0 | 53·9 | 42·1 | 77·0 | 82·5 | 73·5 | +0·8 |
| | Mysore | 2,518 | 27·435 | 27·314 | ·121 | 27·378 | —·013 | ·798 | 85·5 | 65·6 | 19·9 | 96·3 | 55·9 | 40·4 | 77·6 | 83·3 | 74·2 | —0·5 |
| | **XIV.—Madras.** | | | | | | | | | | | | | | | | | |
| 32 | Periyakulam* | 944 | 29·022 | 28·873 | ·149 | 28·948 | ... | ·821 | 92·0 | 67·8 | 24·2 | 99·5 | 57·1 | 42·4 | 82·1 | 89·8 | 79·9 | ... |
| | Pudukkottai | 318 | ·597 | 29·464 | ·133 | 29·531 | ... | ·777 | 93·4 | 74·2 | 19·2 | 104·6 | 63·9 | 40·7 | 85·3 | 90·4 | 83·8 | ... |
| | Madras | 22 | ·882 | ·769 | ·113 | ·830 | —·013 | ·784 | 91·0 | 74·7 | 16·3 | 106·1 | 64·5 | 41·6 | 85·5 | 86·3 | 81·7 | —0·1 |
| | **Bay Islands.** | | | | | | | | | | | | | | | | | |
| 1 | Port Blair | 58 | ·853 | ·761 | ·092 | ·808 | —·011 | ·796 | 85·7 | 76·3 | 9·4 | 92·2 | 70·2 | 22·0 | 82·7 | 83·3 | 79·9 | —1·2 |

* Observations of 4 months.

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.

*36 stations in India, etc., in the year 1909.*

| Temperature, Wet-bulb. | | | | Vapour tension in inches of mercury. | | | | | Humidity. | | | | | Cloud. | | | | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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. | Station. | Number of sub-division. |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| | | | | | | | | | | | | | | | | | | | | **I.—Burma.** | |
| 71·8 | 75·3 | 75·3 | 74·1 | ·703 | ·792 | ·713 | ·782 | —·013 | 90 | 71 | 62 | 79 | —3 | 5·8 | 6·1 | 5·9 | +0·6 | 102·38 | 3·63 | Rangoon | 2 |
| | | | | | | | | | | | | | | | | | | | | **III.—Bengal.** | |
| 68·7 | 73·7 | 74·2 | 72·2 | ·702 | ·746 | ·713 | ·736 | —·008 | 89 | 66 | 58 | 71 | —3 | 3·9 | 5·0 | 4·5 | —0·1 | 72·22 | 3·68 | Calcutta | 6 |
| | | | | | | | | | | | | | | | | | | | | **IV.—United Provinces of Agra and Oudh.** | |
| 62·0 | 67·8 | 68·9 | 66·3 | ·545 | ·531 | ·485 | ·552 | —·035 | 78 | 49 | 38 | 59 | —3 | 4·0 | 4·3 | 4·1 | +0·7 | 46·48 | 4·60 | Allahabad | 10 |
| 56·3 | 63·1 | 64·6 | 61·3 | ·441 | ·482 | ·475 | ·475 | +·008 | 77 | 57 | 51 | 65 | +1 | 4·2 | 4·6 | 4·4 | +0·4 | 111·18 | 8·69 | Dehra Dun | 11 |
| | | | | | | | | | | | | | | | | | | | | **V.—Punjab.** | |
| 58·9 | 66·5 | 68·9 | 64·7 | ·501 | ·538 | ·515 | ·528 | +·037 | 80 | 54 | 41 | 60 | +4 | 2·3 | 2·5 | 2·4 | —0·4 | 30·28 | 3·67 | Lahore | 12 |
| | | | | | | | | | | | | | | | | | | | | **VIII.—Rajputana.** | |
| 58·7 | 66·4 | 67·6 | 64·3 | ·462 | ·497 | ·463 | ·480 | +·015 | 68 | 45 | 37 | 53 | +1 | 3·2 | 4·2 | 3·7 | +0·1 | 25·96 | 3·90 | Jaipur | 19 |
| 59·2 | 66·6 | 68·3 | 64·4 | ·479 | ·519 | ·518 | ·509 | ... | 75 | 49 | 44 | 57 | ... | 3·4 | 4·0 | 3·7 | ... | 41·51 | 5·07 | Udaipur | |
| | | | | | | | | | | | | | | | | | | | | **IX.—Bombay.** | |
| 71·2 | 74·1 | 75·3 | 73·5 | ·727 | ·775 | ·799 | ·785 | —·007 | 84 | 74 | 73 | 79 | +1 | 3·9 | 3·6 | 3·7 | 0 | 71·22 | 4·73 | Bombay | 26 |
| | | | | | | | | | | | | | | | | | | | | **XI.—Central Provinces.** | |
| 62·6 | 68·9 | 70·6 | 67·4 | ·521 | ·554 | ·535 | ·543 | +·010 | 73 | 51 | 42 | 57 | +2 | 3·4 | 4·7 | 4·1 | —0·5 | 56·59 | 3·33 | Nagpur | 24 |
| | | | | | | | | | | | | | | | | | | | | **XII.—Hyderabad.** | |
| 63·7 | 68·6 | 68·9 | 67·1 | ·514 | ·534 | ·483 | ·524 | —·056 | 73 | 50 | 39 | 56 | —5 | 4·0 | 5·0 | 4·5 | +0·3 | 29·77 | 2·50 | Hyderabad | 29 |
| | | | | | | | | | | | | | | | | | | | | **XIII.—Mysore.** | |
| 61·6 | 66·8 | 66·9 | 65·1 | ·531 | ·545 | ·486 | ·530 | —·012 | 87 | 60 | 46 | 66 | —2 | 4·6 | 5·4 | 5·0 | ... | 39·62 | 3·00 | Bangalore | 30 |
| 63·2 | 67·8 | 67·7 | 66·2 | ·557 | ·562 | ·489 | ·545 | —·012 | 87 | 60 | 45 | 66 | 0 | 6·1 | 6·5 | 6·3 | +0·2 | 39·09 | 3·07 | Mysore | |
| | | | | | | | | | | | | | | | | | | | | **XIV.—Madras.** | |
| 63·5 | 70·1 | 69·9 | 67·9 | ·543 | ·582 | ·470 | ·532 | ... | 79 | 54 | 35 | 55 | ... | 1·1 | 2·1 | 1·6 | ... | 13·77 | 2·61 | Periyakulam | 32 |
| 71·1 | 74·2 | 74·7 | 73·2 | ·726 | ·704 | ·664 | ·696 | ... | 86 | 58 | 47 | 64 | ... | 5·8 | 6·6 | 6·2 | ... | 40·15 | 2·48 | Pudukkottai | |
| 73·0 | 77·4 | 77·7 | 76·1 | ·797 | ·835 | ·841 | ·842 | +·033 | 93 | 69 | 67 | 78 | +2 | 4·5 | 4·6 | 4·5 | —0·6 | 47·65 | 5·22 | Madras | |
| | | | | | | | | | | | | | | | | | | | | **Bay Islands.** | |
| 73·8 | 77·5 | 77·3 | 76·3 | ·799 | ·877 | ·860 | ·863 | —·039 | 88 | 78 | 76 | 83 | —1 | 7·0 | 7·4 | 7·2 | +1·4 | 150·26 | 8·98 | Port Blair | 1 |

## Table

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

| Number of sub-division. | Station. | Elevation 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 S. L. 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 |
| | | * | | | | | | | | | | | | | | | | |
| | **Kashmir.** | | | | | | | | | | | | | | | | | |
| 14 | Srinagar | 5,294 | 24·837 | 24·815 | ·082 | 24·852 | − ·004 | 24·823 | 61·6 | 44·5 | 30·1 | 93·6 | 10·1 | 83·5 | 54·9 | 62·3 | 52·9 | − 0·4 |
| | Leh | 11,503 | 19·696 | 19·600 | ·006 | 19·649 | − ·014 | 19·617 | 55·4 | 29·6 | 25·8 | 82·4 | 12·0 | 70·4 | 45·2 | 51·3 | 40·8 | − 0·1 |
| | **Baluchistan.** | | | | | | | | | | | | | | | | | |
| 16 | Quetta | 5,502 | 24·618 | 24·544 | ·074 | 24·574 | − ·015 | 24·533 | 74·0 | 44·0 | 30·0 | 100·1 | 16·6 | 83·5 | 65·6 | 70·9 | 58·6 | − 0·1 |
| | **Hill Stations excluding Kashmir and Baluchistan.** | | | | | | | | | | | | | | | | | |
| | Simla | 7,232 | 23·110 | 23·060 | ·050 | 23·078 | + ·002 | 23·040 | 60·5 | 49·6 | 10·9 | 80·4 | 25·2 | 55·2 | 56·2 | 57·6 | 54·8 | − 0·3 |
| | Sarain | ... | ·154 | ·096 | ·058 | ·117 | ... | ·079 | 61·7 | 42·7 | 19·0 | 80·4 | 17·3 | 63·1 | 55·1 | 56·8 | 51·9 | ... |
| | Kalabagh* | ... | 20·135 | 20·101 | ·034 | 20·111 | ... | (b) 20·086 | 51·6 | 42·2 | 19·4 | 61·6 | 23·8 | 32·8 | 47·5 | 49·2 | 46·4 | ... |
| | Chakrata | 7,022 | 23·295 | 23·242 | ·053 | 23·260 | + ·008 | 23·220 | 65·2 | 49·4 | 15·8 | 81·3 | 21·3 | 60·0 | 59·6 | 58·6 | 57·0 | + 0·3 |
| | Muktesar | 7,502 | 22·842 | 22·779 | ·063 | 22·803 | ... | 22·761 | 66·2 | 47·9 | 18·3 | 79·7 | 25·8 | 53·9 | 56·9 | 59·2 | 56·8 | ... |
| | Katmandu | 4,388 | 25·629 | 25·525 | ·104 | 25·574 | + ·008† | 25·528 | 77·1 | 53·2 | 23·9 | 91·4 | 27·8 | 63·6 | 66·7 | 73·2 | 64·9 | − 0·3† |
| | Darjeeling‖ | 7,376 | Rejected. | | | | | | 59·7 | 47·5 | 12·2 | 72·3 | 31·4 | 40·9 | 56·0 | 55·2 | 53·5 | + 2·4 |
| | Pachmarhi | 3,528 | 26·433 | 26·354 | ·079 | 26·389 | − ·009 | 26·336 | 70·8 | 60·8 | 19·0 | 100·1 | 36·1 | 64·0 | 71·0 | 77·2 | 70·0 | 0 |
| | Mount Abu | 3,945 | ·034 | 25·961 | ·073 | 25·993 | − ·015 | 25·943 | 74·5 | 61·3 | 13·2 | 95·8 | 40·4 | 55·4 | 70·0 | 72·0 | 67·6 | − 1·2 |
| | Chikalda | 3,642 | ·324 | 26·223 | ·101 | 26·269 | − ·028 | 26·213 | 80·0 | 63·1 | 16·9 | 100·7 | 47·9 | 52·8 | 73·1 | 77·3 | 71·3 | − 0·3 |
| | Ootacamund | 7,327 | 23·060 | 22·988 | ·072 | 23·021 | ... | 22·957 | 65·2 | 49·0 | 16·2 | 74·5 | 37·2 | 37·3 | 61·6 | 60·2 | 56·8 | ... |
| | Kodaikanal | 7,688 | 22·826 | ·759 | ·067 | 22·792 | ... | ·728 | 63·8 | 51·0 | 12·8 | 72·7 | 43·0 | 29·7 | 60·2 | 58·8 | 57·4 | ... |
| | Dodabetta | 8,539 | ·062 | ·001 | ·061 | ·029 | ... | 21·965 | 58·8 | 47·3 | 11·5 | 68·7 | 39·8 | 28·9 | 55·2 | 54·9 | 52·8 | ... |
| | **Extra India.** | | | | | | | | | | | | | | | | | |
| | Minicoy | 7 | 29·960 | 29·882 | ·078 | 29·926 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Zanzibar | 72 | 30·002 | ·895 | ·107 | ·953 | + ·004 | 29·952 | 83·8 | 75·8 | 8·0 | 91·7 | 67·8 | 23·9 | 79·9 | 83·1 | 78·9 | − 0·2 |
| | Diego Garcia | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Seychelles | 15 | 29·983 | ·890 | ·084 | ·947 | + ·003† | ·886 | 82·9 | 76·8 | 6·1 | 88·4 | 71·7 | 16·7 | 80·8 | 81·7 | 78·6 | + 0·5† |
| | Mauritius | 181 | ... | ... | ... | ·880 | − ·011 | 30·008 | ... | ... | ... | 89·3 | 54·7 | 34·6 | ... | ... | 72·9 | − 0·5 |

*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) Mean of 5 months. * Observations for 8 months. † Departure from old normals. ‖ Observations for 4 months.

A—concld.

*at 36 stations in India, etc., in the year 1909.*

| Temperature, Wet-bulb. Vapour tension in inches of mercury. | | | | | | | | | Humidity. | | | | | Cloud. | | | | Rainfall. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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. | Station. | Number of sub-division. |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |
| | | | | | | | | | | | | | | | | | | | | **Kashmir.** | |
| 41·9 | 51·3 | 57·6 | 50·3 | ·271 | ·393 | ·488 | ·358 | — ·005 | 80 | 79 | 75 | 78‡ | — 3 | 4·4 | 4·7 | 4·5 | + 0·1 | 31·48 | 2·06 | Srinagar | 14 |
| 25·7 | 35·0 | 38·2 | 33·0 | ·135 | ·144 | ·145 | ·140 | + ·006 | 67 | 44 | 35 | 51 | 0 | 4·4 | 5·0 | 5·1 | — 0·4 | 2·91 | 0·30 | Leh | |
| | | | | | | | | | | | | | | | | | | | | **Baluchistan.** | |
| (a) 38·6 | 48·1 | 50·5 | (a) 45·3 | (a) ·210 | ·291 | ·175 | (a) ·188 | (a) — ·043 | (a) 75 | 33 | 27 | (a) 37 | (a) — 4 | 1·7 | 2·5 | 2·1 | — 0·2 | 8·11 | 1·13 | Quetta | 16 |
| | | | | | | | | | | | | | | | | | | | | **Hill Stations excluding Kashmir and Baluchistan.** | |
| 43·8 | 48·0 | 49·9 | 47·2 | ·249 | ·273 | ·300 | ·275 | — ·008 | 64 | 56 | 60 | 62 | + 1 | 4·8 | 5·7 | 5·3 | + 0·2 | 61·64 | 2·75 | Simla | |
| ... | 47·2 | 48·7 | ... | ... | ·275 | ·288 | ... | ... | ... | 58 | 60 | ... | ... | 4·6 | 5·5 | 5·1 | ... | 62·67 | 3·62 | Sarain | |
| ... | 42·4 | 44·4 | ... | ... | ·210 | ·263 | ... | ... | ... | 69 | 73 | ... | ... | 5·4 | 6·3 | 5·9 | ... | 58·23§ | 5·14 | Kalabagh | |
| 44·3 | 51·6 | 51·5 | 49·3 | ·275 | ·326 | ·332 | ·312 | — ·008 | 72 | 60 | 64 | 67 | + 2 | 3·9 | 5·2 | 4·5 | — 0·1 | 84·91 | 4·22 | Chakrata | |
| 42·4 | 49·2 | 51·1 | 47·6 | ·237 | ·288 | ·312 | ·279 | ... | 65 | 60 | 59 | 63 | ... | 5·1 | 5·7 | 5·4 | ... | 63·25 | 3·38 | Muktesar | |
| 51·2 | 59·3 | 61·3 | 57·3 | ·391 | ·451 | ·431 | ·433 | — ·016 | 87 | 65 | 51 | 69 | — 4 | 3·1 | 4·1 | 3·6 | — 0·9 | 68·40 | 3·43 | Katmandu | |
| 45·5 | 52·0 | 51·9 | 49·8 | ·296 | ·361 | ·367 | ·336 | + ·005 | 87 | 77 | 81 | 84 | — 2 | 7·5 | 8·2 | 7·9 | + 2·1 | (c) 8·69 | 2·94 | Darjeeling | |
| 55·1 | 61·5 | 63·3 | 60·0 | ·302 | ·452 | ·435 | ·429 | + ·015 | 71 | 61 | 49 | 63 | + 3 | 2·3 | 2·9 | 2·6 | — 1·7 | 61·43 | 5·04 | Pachmarhi | |
| 53·1 | 58·6 | 59·6 | 57·1 | ·333 | ·381 | ·389 | ·370 | + ·005 | 59 | 52 | 50 | 57 | + 3 | 3·9 | 4·3 | 4·1 | + 0·6 | 110·21 | 12·96 | Mount Abu | |
| 57·1 | 62·0 | 64·2 | 60·8 | ·414 | ·440 | ·457 | ·439 | + ·008 | 70 | 57 | 52 | 63 | + 2 | 4·4 | 4·7 | 4·5 | + 0·3 | 61·50 | 5·60 | Chikalda | |
| 49·9 | 54·2 | 54·8 | 52·0 | ·034 | ·348 | ·377 | ·343 | ... | 86 | 65 | 73 | 75 | ... | 5·7 | 7·3 | 6·5 | ... | 66·73 | 4·52 | Ootacamund | |
| 46·5 | 53·5 | 54·7 | 51·5 | ·281 | ·348 | ·389 | ·339 | ... | 73 | 67 | 79 | 73 | ... | 5·3 | 7·4 | 6·3 | ... | 68·24 | 4·51 | Kodaikanal | |
| 43·8 | 48·8 | 50·8 | 48·1 | ·253 | ·039 | ·333 | ·297 | ... | 77 | 71 | 78 | 75 | ... | 6·2 | 7·7 | 6·9 | ... | 62·32 | 3·38 | Dodabetta | |
| | | | | | | | | | | | | | | | | | | | | **Extra India.** | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 4·3 | 4·7 | 4·5 | ... | 57·60 | 4·60 | Minicoy | |
| 71·3 | 74·8 | 74·7 | 73·6 | ·713 | ·799 | ·750 | ·779 | — ·037 | 79 | 78 | 66 | 77 | — 3 | 6·5 | 5·3 | 5·9 | + 0·8 | 85·09 | 4·02 | Zanzibar | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Diego Garcia | |
| 71·0 | 75·5 | 75·6 | 74·0 | ·687 | ·819 | ·810 | ·790 | — ·023 | 74 | 77 | 74 | 78 | — 3 | 5·6 | 5·9 | 5·7 | — 0·5† | 74·46 | 4·04 | Seychelles | |
| ... | ... | ... | 68·7 | ... | ... | ... | ·625 | + ·002 | ... | ... | ... | 76 | + 1 | ... | ... | 5·1 | + 0·4 | 47·86 | 3·01 | Mauritius | |

† Departures from old normals.
‡ Mean of three previous columns.

§ Total rainfall from May to October.

(a) Mean of 11 months.

(c) Total rainfall from 16th September to 31st December.

# Table B.—Abstract of observations taken at 8 hrs. at 244 stations in India, etc., in the year 1909.

(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 2,000 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 | —·012 | 88·0 | —0·6 | 70·7 | +0·7 | 79·4 | +0·1 | 17·3 | 46·3 | —0·8 | 85 | +2 | ·751 | +·009 | 5·2 | +0·5 | 85·88 | 78·44 | +7·44 |
| Eastern Bengal and Assam | —·005 | 85·6 | +0·8 | 67·9 | +0·1 | 76·8 | +0·4 | 17·6 | 55·9 | —0·7 | 84 | —3 | ·721 | —·012 | 4·3 | —0·7 | 93·08 | 92·90 | +0·18 |
| Bengal | —·003 | 88·2 | —0·1 | 68·8 | —0·1 | 78·5 | —0·1 | 19·4 | 60·2 | —0·4 | 76 | —2 | ·675 | —·015 | 3·9 | +0·1 | 59·90 | 54·52 | +5·38 |
| United Provinces of Agra and Oudh | 0 | 88·0 | —0·5 | 64·8 | —0·8 | 76·4 | —0·7 | 23·2 | 71·0 | —0·3 | 68 | 0 | ·568 | +·001 | 3·0 | —0·1 | 42·03 | 39·53 | +2·50 |
| Punjab | +·008 | 87·4 | —1·8 | 63·1 | —0·3 | 75·3 | —1·1 | 24·2 | 79·5 | +0·2 | 65 | +2 | ·507 | +·007 | 2·6 | —0·2 | 27·68 | 20·76 | +6·92 |
| North-West Frontier Province | —·005 | 86·4 | —1·7 | 60·9 | +0·1 | 73·7 | —0·8 | 25·5 | 82·1 | —0·8 | 63 | 0 | ·483 | —·003 | 2·4 | —0·1 | 18·65 | 16·34 | +2·31 |
| Sind | +·002 | 90·8 | —0·3 | 68·4 | +0·3 | 79·7 | 0 | 22·4 | 75·9 | —1·2 | 64 | +1 | ·586 | +·015 | 2·9 | +0·1 | 6·28 | 6·63 | —0·35 |
| Rajputana | 0 | 89·8 | —2·1 | 66·2 | —1·3 | 78·0 | —1·7 | 23·6 | 74·8 | +0·2 | 60 | +5 | ·523 | +·006 | 3·0 | +0·2 | 26·15 | 21·06 | +5·09 |
| Bombay | —·007 | 88·7 | —0·5 | 69·1 | —0·2 | 78·9 | —0·3 | 19·5 | 54·5 | —0·6 | 68 | —1 | ·625 | —·015 | 3·5 | —0·1 | 45·70 | 47·84 | —2·14 |
| Central India | —·009 | 87·9 | —0·8 | 65·0 | +0·3 | 76·4 | —0·3 | 22·8 | 68·3 | —1·1 | 63 | +1 | ·528 | +·008 | 4·0 | +1·0 | 36·56 | 38·33 | —1·77 |
| Central Provinces | —·003 | 89·5 | —0·5 | 66·9 | 0 | 78·2 | —0·2 | 22·4 | 63·5 | +0·3 | 60 | —1 | ·517 | —·013 | 3·8 | +0·3 | 38·72 | 41·39 | —2·67 |
| Hyderabad | —·015 | 91·0 | —0·2 | 68·9 | +0·5 | 80·0 | +0·1 | 22·0 | 54·0 | —1·6 | 62 | —2 | ·559 | —·031 | 3·6 | +0·2 | 28·95 | 32·49 | —3·54 |
| Mysore | —·007 | 85·2 | +0·3 | 65·1 | +0·3 | 75·2 | +0·3 | 20·1 | 42·4 | +0·4 | 76 | +1 | ·578 | —·005 | 5·2 | —0·1 | 41·14 | 36·22 | +4·92 |
| Madras | —·006 | 90·5 | —0·2 | 74·0 | +0·2 | 82·3 | 0 | 16·4 | 40·6 | 0 | 76 | 0 | ·759 | —·005 | 4·8 | +0·1 | 44·76 | 44·09 | +0·67 |

**Table**

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

| Number of sub-division. | Station. | Elevation 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 recorded during year | Lowest pressure recorded during year | Absolute range during year. | Mean monthly range of pressure. | Temperature of air. Mean of 8 hrs. temperature 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 | Mergui | 56 | 29·862 | —·012 | 29·849 | 30·017 | 29·681 | ·336 | ·159 | 77·7 | 87·1 | —0·5 | 72·6 | +1·5 | 79·9 | +0·5 | 14·5 | 95·9 | 62·4 | 33·5 | 22·9 |
| | Tavoy | 19 | 29·905 | —·019 | 29·856 | 30·104 | 29·700 | ·404 | ·172 | 76·1 | 87·4 | —0·5 | 72·5 | +1·4 | 80·0 | +0·4 | 14·8 | 97·0 | 53·8 | 38·2 | 23·7 |
| | Moulmein | 94 | 29·825 | +·001 | 29·857 | 30·082 | 29·571 | ·511 | ·187 | 76·6 | 88·1 | 0 | 73·1 | +0·8 | 80·6 | +0·4 | 15·0 | 98·5 | 62·3 | 36·2 | 23·2 |
| | Rangoon | 18 | 29·880 | —·018 | 29·836 | 30·139 | 29·617 | ·522 | ·192 | 77·0 | 89·2 | —0·3 | 74·0 | +1·1 | 81·6 | +0·4 | 15·2 | 101·6 | 62·4 | 39·2 | 23·4 |
| | Bassein | 27? | 29·865 | —·009 | 29·830 | 30·129 | 29·571 | ·558 | ·196 | 76·3 | 88·2 | +0·1 | 73·1 | +1·0 | 80·7 | +0·6 | 15·1 | 99·7 | 58·9 | 40·8 | 23·5 |
| | Diamond Island | 41 | 29·857 | —·011 | 29·833 | 30·097 | 29·578 | ·519 | ·202 | 80·4 | 85·3 | —0·2 | 76·2 | +0·9 | 80·7 | +0·3 | 9·1 | 91·4 | 70·2 | 21·2 | 15·3 |
| | Toungoo | 164 | 29·730 | —·014 | 29·838 | 30·016 | 29·454 | ·562 | ·200 | 75·7 (t) | 89·6 (t) | —0·7 | 70·6 (t) | —0·1 | 80·1 (t) | —0·3 | 19·0 (t) | 103·5 | 51·8 | 51·7 | 28·9 (t) |
| | Kyaukpyu | 18 | 29·858 | ... | 29·817 | 30·149 | 29·549 | ·600 | ·211 | 77·5 | 83·8 | ... | 74·4 | ... | 79·2 | ... | ... | 91·0 | 62·4 | 28·6 | 17·4 |
| | Akyab | 20 | 29·855 | —·017 | 29·818 | 30·153 | 29·533 | ·620 | ·222 | 74·4 | 85·2 | —1·0 | 71·8 | —0·5 | 78·5 | —0·7 | 13·5 | 97·4 | 54·5 | 42·9 | 23·1 |
| 3 | Thayetmyo | 121 | 29·756 | —·013 | 29·821 | 30·076 | 29·469 | ·607 | ·203 | 76·6 | 91·3 | —0·5 | 70·3 | +0·7 | 80·8 | +0·1 | 20·9 | 106·0 | 47·9 | 58·1 | 30·9 |
| | Minbu | 165 | 29·707 | —·017 | 29·819 | 30·044 | 29·427 | ·617 | ·197 | 76·0 | 91·0 | —1·3 | 72·1 | +1·0 | 81·5 | —0·1 | 18·9 | 107·8 | 52·3 | 55·5 | 30·4 |
| | Yamethin | 657 | 29·203 | —·028 | 29·828 | 29·484 | 28·934 | ·550 | ·197 | 74·4 | 89·9 | —2·3 | 70·0 | +0·6 | 80·0 | —0·8 | 19·9 | 104·3 | 51·0 | 53·3 | 30·6 |
| | Mandalay | 250 | 29·630 | 0 | 29·833 | 29·954 | 29·348 | ·606 | ·218 | 76·2 | 92·8 | +0·4 | 71·2 | +0·1 | 82·0 | +0·3 | 21·6 | 111·0 | 51·9 | 59·1 | 33·9 |
| | Monywa | 280 | 29·608 | ... | 29·827 | 29·932 | 29·326 | ·606 | ·215 | 75·4 | 90·9 | ... | 71·5 | ... | 81·2 | ... | 19·4 | 110·8 | 51·6 | 59·2 | 32·2 |
| | Lashio | 2,751 | 27·099 | —·018 | 27·045 | 27·369 | 26·854 | ·515 | ·200 | 65·5 | 81·0 | —1·6 | 61·0 | +0·9 | 71·0 | —0·3 | 20·0 | 95·3 | 40·0 | 55·3 | 30·9 |
| | Bhamo | 381 | 29·503 | +·002 | 29·849 | 29·832 | 29·226 | ·606 | ·228 | 69·5 | 86·1 | —0·5 | 65·6 | +0·5 | 75·9 | +0·9 | 20·4 | 101·4 | 44·1 | 57·3 | 32·1 |
| | Myitkyina | 458 | 29·412 | ... | 29·840 | 29·737 | 29·109 | ·628 | ·227 | 70·7 | 85·2 | ... | 66·0 | ... | 75·6 | ... | 19·2 | 99·7 | 42·5 | 57·2 | 30·4 |
| | **II.—Eastern Bengal and Assam.** | | | | | | | | | | | | | | | | | | | | |
| 4 | Dibrugarh | 353 | 29·490y | ... | 29·809y | 29·872 | 29·200 | ·672 | ·242y | 69·3 | 81·4 | ... | 65·9 | ... | 73·7 | ... | 15·5 | 95·9 | 44·1 | 51·8 | 28·1 |
| | Sibsagar | 333 | 29·560 | —·007 | 29·853 | 29·917 | 29·269 | ·648 | ·239 | 69·7 | 81·4 | —0·4 | 62·7y | —1·0y | 71·4y | —0·7y | 17·4y | 94·6 | 40·7 | 53·9 | 29·1y |
| | Tezpur | 252 | 29·620 | ... | 29·838 | 30·003 | 29·295 | ·708 | ·259 | 70·1 | 85·2 | ... | 67·9 | ... | 76·6 | ... | 17·3 | 97·6 | 46·4 | 51·2 | 27·9 |
| | Gauhati | 195 | 29·683 | ... | 29·839 | 30·057 | 29·354 | ·703 | ·272 | 70·9 | 86·0 | ... | 66·4 | ... | 76·2 | ... | 19·7 | 101·3 | 40·6 | 60·7 | 31·7 |
| | Dhubri | 115 | 29·712x | ? +·015x | ? 29·786x | ? 30·056 | 29·415 | ·641 | ? ·246x | 71·5 | 83·3 | +0·4 | 70·3y | +0·3y | 77·4y | +0·4y | 14·2y | 104·0 | 45·8 | 58·2 | 26·7x |
| | Silchar | 104 | 29·789 | +·002 | 29·849 | 30·123 | 29·434 | ·689 | ·250 | 72·6 | 86·6 | +0·5 | 67·7 | +0·1 | 77·2 | +0·3 | 19·0 | 99·3 | 45·8 | 53·5 | 31·6 |
| 5 | Cox's Bazar | 36 | 29·828 | ... | 29·808 | 30·115 | 29·467 | ·648 | ·252 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Chittagong | 87 | 29·781 | —·010 | 29·818 | 30·099 | 29·413 | ·686 | ·260 | 74·3 | 85·0 | +0·3 | 69·4 | 0 | 77·2 | +0·1 | 15·6 | 95·5 | 49·0 | 46·5 | 25·4 |
| | Noakhali | 43 | 29·827 | ... | 29·817 | 30·133 | 29·456 | ·677 | ·252 | 74·6 | 84·4 | ... | 70·0 | ... | 77·2 | ... | 14·4 | 95·8 | 47·9 | 47·9 | 24·9 |
| | Barisal | 12 | 29·840 | —·007 | 29·798 | 30·167 | 29·443 | ·724 | ·259 | 76·0 | 86·4 | +0·4 | 70·1 | —0·3 | 78·3 | +0·1 | 16·3 | 99·3 | 49·1 | 50·2 | 27·4 |
| | Comilla | 36 | 29·826 | ... | 29·811 | 30·160 | 29·472 | ·688 | ·255 | 74·8 | 87·1 | ... | 62·4u | ... | 73·9u | ... | 23·3u | 100·8 | 47·3 | 53·5 | 37·0u |
| | Narayanganj | 26 | 29·830 | —·003 | 29·804 | 30·176 | 29·462 | ·714 | ·264 | 74·9 | 86·5 | +0·1 | 70·5 | 0 | 78·5 | +0·1 | 16·1 | 97·5 | 49·8 | 47·7 | 26·4 |
| | Faridpur | 46 | 29·813 | ... | 29·809 | 30·159 | 29·429 | ·730 | ·273 | 74·6 | 86·5 | ... | 68·7 | ... | 77·6 | ... | 17·7 | 101·3 | 44·9 | 56·4 | 30·4 |
| | Sirajganj | 49 | 9·813 | ... | 29·813 | 30·181 | 29·292 | ·889 | ·294 | 73·6 | 85·8 | ... | 68·7 | ... | 77·2 | ... | 17·1 | 102·4 | 44·3 | 58·1 | 29·7 |
| | Mymensingh | 63 | 29·805 | —·001 | 29·820 | 30·166 | 29·447 | ·719 | ·264 | 74·6 | 86·2 | +1·9 | 69·3 | +0·9 | 77·8 | +1·4 | 16·9 | 100·1 | 46·6 | 53·5 | 28·2 |
| | Bogra | 75 | 29·791 | +·011 | 29·819 | 30·164 | 39·403 | ·761 | ·271 | 75·4 | 87·4 | +1·0 | 68·3 | +0·2 | 77·9 | +0·6 | 19·1 | 108·2 | 45·2 | 63·0 | 31·9 |
| | Rampur Boalia | 70 | 29·788 | ... | 29·808 | 30·174 | 29·403 | ·771 | ·284 | 75·0 | 87·8 | ... | 69·1 | ... | 78·5 | ... | 18·8 | 108·6 | 44·6 | 64·0 | 31·8 |
| | Malda | 72 | 29·764 | ... | 29·789 | 30·146 | 29·386 | ·760 | ·264 | 74·2 | 87·5 | ... | 67·7 | ... | 77·6 | ... | 19·8 | 109·8 | 42·0 | 67·8 | 33·5 |
| | Dinajpur | 123 | 29·712 | —·014 | 29·794 | 30·086 | 29·355 | ·731 | ·267 | 71·6 | 87·4 | +1·4 | 66·7 | —0·4 | 77·1 | +0·5 | 20·7 | 105·8 | 39·5 | 66·3 | 34·0 |
| | Rangpur | 123 | 29·740 | ... | 29·821 | 30·112 | 29·389 | ·723 | ·265 | 73·5 | 86·0 | ... | 65·3 | ... | 75·6 | ... | 20·7 | 101·6 | 39·5 | 62·1 | 32·9 |
| | Jalpaiguri | 284 | 29·614y | —·013y | 29·866y | 29·934 | 29·280 | ·654 | ·256y | 70·8 | 85·9 | +2·1 | 66·7 | +0·8 | 76·3 | +1·5 | 19·1 | 96·4 | 43·4 | 53·0 | 30·2 |
| | Cooch Behar | 156 | 29·707 | ... | 29·823 | 30·073 | 29·370 | ·703 | ·262 | 70·9 | 84·5 | ... | 67·0 | ... | 75·8 | ... | 17·5 | 96·8 | 43·6 | 53·2 | 28·0 |

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.

(t) Mean of 5 months.
(x) Mean of 9 months.
(y) " 10 "
(u) " 6 "

## B—*contd.*

### *244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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.** |
| 89 | 15 | 15 | 25 | 56 | 59 | 44 | 33 | 24 | (t) 1·6 | 1·9 | (t) 0 | 91 | +6 | ·851 | +·035 | 2·4 | —2·9 | 177 | 154·20 | +22·80 | 194·00 | 168·37 | +25·63 | 6·34 | Mergui (e). |
| 363 | ... | ... | ... | ... | ... | ... | ... | 2 | 1·0* | 1·5 | —0·5 | 90 | +3 | ·817 | +·016 | 4·2 | —0·9 | 157 | 147·30 | +9·70 | 215·34 | 209·28 | +6·06 | 5·72 | Tavoy. |
| 110 | 14 | 54 | 39 | 35 | 76 | 24 | 11 | 2 | 3·3 | 3·1 | +0·2 | 89 | +2 | ·818 | +·018 | 5·9 | +1·0 | 158 | 140·60 | +17·40 | 210·10 | 183·92 | +26·18 | 7·70 | Moulmein. |
| 52 | 36 | 81 | 27 | 8 | 63 | 48 | 37 | 13 | 4·3 | 4·3 | 0 | 85 | —3 | ·800 | —·005 | 5·8 | +0·8 | 141 | 123·10 | +17·90 | 102·38 | 96·78 | +5·60 | 3·63 | Rangoon. |
| 185 | 14 | 12 | 14 | 19 | 39 | 33 | 31 | 18 | 4·0 | 4·4 | —0·4 | 91 | +3 | ·835 | +·018 | 4·7 | —0·2 | 128 | 128·50 | —0·50 | 110·22 | 112·00 | —1·78 | 3·11 | Bassein. |
| 37 | 32 | 66 | 24 | 24 | 21 | 84 | 31 | 46 | 8·4 | 8·7 | —0·3 | 81 | +2 | ·856 | +·039 | 5·4 | 0 | 124 | 120·44 | +3·56 | 125·38 | 116·08 | +9·30 | 6·87 | Diamond Island. |
| 148 | 30 | 20 | 10 | 72 | 43 | 15 | 4 | 23 | 2·0 | 3·3 | —1·3 | 87 | +1 | ·791 | +·013 | 5·8 | +0·6 | 124 | 113·60 | +10·40 | 107·27 | 79·11 | +28·16 | 4·26 | Toungoo. |
| 9 | 33 | 89 | 57 | 115 | 38 | 7 | 9 | 7 | 4·0* | ... | ... | (t) 87 | ... | (t) ·833 | ... | 3·8 | ... | 113 | ... | ... | 178·04 | ... | ... | 8·48 | Kyaukpyu (a). |
| 59 | 44 | 107 | 51 | 43 | 23 | 19 | 7 | 12 | 3·7 | 3·2 | +0·5 | 91 | +3 | ·754 | —·021 | 5·7 | +0·6 | 140 | 118·70 | +21·30 | 233·95 | 189·2[illegible] | +44·75 | 9·14 | Akyab. |
| 11 | 40 | 71 | 7 | 58 | 90 | 70 | 3 | 15 | 5·3 | 5·1 | +0·2 | 78 | +2 | ·723 | +·015 | 5·6 | +1·4 | 80 | 72·50 | +7·50 | 39·25 | 36·72 | +2·53 | 2·95 | Thayetmyo. |
| 25 | 9 | 4 | 1 | 165 | 34 | 19 | 12 | 96 | 4·2 | 8·7 | —4·5 | 76 | +1 | ·604 | —·008 | 5·8 | +2·4 | 66 | 50·50 | +15·50 | 50·11 | 31·86 | +18·35 | 4·75 | Minbu. |
| 62 | 23 | 6 | ... | 125 | 87 | 9 | ... | 52 | 3·6 | 5·7 | —2·1 | 82 | +4 | ·701 | —·001 | 5·8 | +3·1 | 70 | 61·20 | +8·80 | 53·47 | 37·56 | +15·91 | 3·55 | Yamethin. |
| 248 | 4 | ... | 4 | 62 | 33 | 9 | 1 | 4 | 4·7 | 5·0 | —0·3 | 75 | 0 | ·675 | —·035 | 5·3 | +1·0 | 59 | 47·50 | +11·50 | 35·05 | 32·36 | +2·69 | 1·90 | Mandalay. |
| 76 | 100 | 12 | 12 | 94 | 35 | 1 | 2 | 33 | 3·4 | ... | ... | 80 | ... | ·721 | ... | 5·6 | ... | 46 | 44·60 | +1·40 | 41·18 | 28·40 | +12·78 | 3·97 | Monywa. |
| 259 | 7 | 24 | 14 | 1 | 20 | 35 | 1 | 4 | 2·7* | ... | ... | 88 | +2 | ·576 | +·015 | 6·1 | —0·6 | 119 | ... | ... | 70·36 | 61·28 | +9·08 | 2·78 | Lashio. |
| 332 | 4 | 23 | ... | ... | ... | 3 | 2 | 1 | 1·4 | 2·4 | —1·0 | 94 | +7 | ·706 | +·032 | 5·1 | 0 | 104 | 99·80 | +4·20 | 69·42 | 73·38 | —3·96 | 3·21 | Bhamo. |
| 179 | 19 | 59 | 62 | 30 | 8 | 3 | 3 | 2 | 1·9 | ... | ... | 85 | ... | ·665 | ... | 6·0 | ... | 86 | ... | ... | 50·33 | 74·84 | —24·51 | 4·00 | Myitkyina. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **II.—Eastern Bengal and Assam.** |
| 206 | 15 | 62 | 33 | 13 | 11 | 11 | 5 | 9 | 1·6g | ... | ... | 91 | ... | ·675 | ... | 5·8 | ... | 130 | 131·80 | —1·80 | 106·21 | 114·99 | —8·78 | 3·87 | Dibrugarh. |
| 157 | 12 | 111 | 7 | 20 | 8 | 39 | 2 | 9 | 2·1 | 2·4 | —0·3 | 89 | —6 | ·681 | —·030 | 6·7 | —0·4 | 116 | 125·00 | —9·00 | 89·29 | 96·21 | —6·92 | 3·54 | Sibsagar. |
| 278 | ... | 47 | 37 | 3 | ... | ... | ... | ... | 3·3 | ... | ... | 89 | ... | ·687 | ... | 5·0 | ... | 96 | 103·90 | —7·90 | 53·67 | 71·66 | —17·99 | 5·54 | Tezpur. |
| 239 | 19 | 38 | 14 | 17 | 16 | 10 | 9 | 3 | 1·9 | ... | ... | 87 | ... | ·698 | ... | 7·2 | ... | 87 | 91·50 | —4·50 | 61·20 | 63·39 | —2·19 | 3·43 | Gauhati. |
| 106 | 4 | 61 | 124 | 28 | 15 | 24 | 1 | ... | 6·1 | 5·2 | +0·9 | 85 | —2 | ·701 | +·003 | 2·1 | —2·8 | 89 | 92·50 | —3·50 | 95·50 | 93·28 | +2·22 | 14·50 | Dhubri (b). |
| 272 | 1 | 1 | 52 | 35 | 1 | 2 | ... | 1 | 2·7 | 2·4 | +0·3 | 87 | —1 | ·729 | +·002 | 3·7 | —2·7 | 119 | 136·80 | —17·80 | 107·42 | 124·86 | —17·44 | 3·25 | Silchar. |
| 28 | 39 | 57 | 105 | 85 | 34 | 12 | 1 | 2 | 3·8* | ... | ... | ... | ... | ... | ... | 4·1 | ... | 111 | ... | ... | 144·12 | ... | ... | 8·47 | Cox's Bazar (a). |
| 93 | 19 | 52 | 24 | 122 | 33 | 11 | 2 | 9 | 3·3 | 4·9 | —1·6 | 85 | —2 | ·748 | —·015 | 4·7 | —0·3 | 108 | 96·41 | +11·59 | 133·26 | 96·52 | +36·74 | 8·02 | Chittagong. |
| 63 | 39 | 50 | 36 | 97 | 38 | 23 | 14 | 5 | 4·0 | ... | ... | 86 | ... | ·763 | ... | 3·7 | ... | 117 | 109·36 | +7·64 | 157·40 | 113·68 | +43·72 | 8·52 | Noakhali. |
| 114 | 40 | 34 | 20 | 34 | 64 | 37 | 5 | 17 | 2·2 | 3·2 | —1·0 | 85 | —1 | ·787 | —·015 | 4·5 | —0·3 | 111 | 97·90 | +13·10 | 103·03 | 77·60 | +25·43 | 6·05 | Barisal. |
| 178 | 1 | 7 | 32 | 86 | 56 | 4 | ... | 1 | 2·9 | ... | ... | 86 | ... | ·774 | ... | 2·7 | ... | 109 | 100·25 | +8·75 | 103·49 | 90·24 | +13·25 | 10·55 | Comilla. |
| 79 | 26 | 27 | 53 | 46 | 50 | 39 | 16 | 25 | 3·2 | 4·9 | —1·7 | 84 | —2 | ·760 | —·018 | 5·1 | —0·2 | 89 | 94·08 | —5·08 | 78·41 | 69·60 | +8·81 | 7·80 | Narayanganj (d). |
| 123 | 33 | 1 | 21 | 51 | 102 | 11 | 7 | 16 | 2·8 | ... | ... | 85 | ... | ·764 | ... | 4·2 | ... | 87 | 89·40 | —2·40 | 72·25 | 68·56 | +3·69 | 4·63 | Faridpur. |
| 102 | 15 | 22 | 28 | 64 | 46 | 38 | 19 | 31 | 3·0 | ... | ... | 85 | ... | ·739 | ... | 5·2 | ... | 89 | 78·66 | +10·34 | 68·45 | 61·38 | +7·07 | 4·53 | Sirajganj. |
| 153 | 6 | 14 | 79 | 69 | 23 | 9 | 3 | 9 | 1·9 | 2·7 | —0·8 | 83 | —5 | ·743 | +·004 | 6·4 | +1·6 | 103 | 104·22 | —1·22 | 77·25 | 87·55 | —10·30 | 5·36 | Mymensingh. |
| 216 | 21 | 9 | 61 | 3 | 43 | ... | 4 | 8 | 1·7 | 3·0 | —1·3 | 74 | —10 | ·690 | —·040 | 2·3 | —1·7 | 79 | 81·84 | —2·84 | 79·69 | 67·14 | +12·55 | 7·40 | Bogra |
| 286 | 3 | 6 | 2 | 18 | 19 | 23 | 7 | 1 | 3·1 | ... | ... | 78 | ... | ·717 | ... | 3·2 | ... | 75 | 75·14 | —0·14 | 50·92 | 57·62 | —6·70 | 5·94 | Rampur Boalia. |
| 59 | 34 | 34 | 47 | 56 | 31 | 43 | 16 | 45 | 4·5* | ... | ... | 82 | ... | ·737 | ... | 2·2 | ... | 73 | 69·20 | +3·80 | 48·81 | 54·18 | —5·37 | 3·90 | Malda. |
| 120 | 10 | 31 | 92 | 28 | 20 | 23 | 31 | 10 | 3·2 | 3·6 | —0·4 | 83 | 0 | ·685 | —·009 | 3·8 | —0·4 | 78 | 77·09 | +0·91 | 68·75 | 70·99 | —2·24 | 5·32 | Dinajpur. |
| 182 | 7 | 29 | 43 | 37 | 23 | 21 | 15 | 8 | 1·5 | ... | ... | 80 | ... | ·702 | ... | 2·1 | ... | 83 | 81·61 | +1·39 | 96·21 | 84·02 | +12·19 | 7·71 | Rangpur. |
| 201 | 23 | 4 | 40 | 17 | 3 | 6 | 7 | 22 | 2·1 | ... | ... | 84 | —2 | ·680 | —·006 | 4·5 | +0·7 | 107 | 99·26 | +7·74 | 121·59 | 123·20 | —1·61 | 9·62 | Jalpaiguri (b). |
| 159 | 2 | 33 | 98 | 39 | 14 | 13 | 6 | 1 | 1·8 | ... | ... | 86 | ... | ·686 | ... | 4·7 | ... | 97 | 100·59 | —3·59 | 141·54 | 128·63 | +12·91 | 10·42 | Cooch Behar. |

(t) Wind observations for 363 days.
(d) " " " 361 "
a " " " 364 "
* Uncorrected for scale error.
(e) Wind observations for 360 days.

t = Mean of 5 months.
g = " of 10 "

# Table

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

| Number of sub-division. | Station. | Elevation of bar. cistern above sea-level, in feet. | Pressure, 8 hrs., in inches. | | | | | | | Temperature of air. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 8 hrs. pressure reduced to 32°. | Departure from normal. | Mean 8 hrs. pressure reduced to sea-level and to constant gravity, at 45° Lat. | Highest pressure recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Mean of 8 hrs. temperature of year. | Mean maximum of year. | Departure from normal of year. | Mean minimum of year. | Departure from normal of year. | Yearly 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.** | | | | | | | | | | | | | | | | | | | | |
| 6 | Saugor Island | 25 | 29·815 | —·009 | 29·785 | 30·155 | 29·384 | ·771 | ·265 | 77·5 | 86·5 | +1·0 | 73·6 | —0·1 | 80·1 | +0·4 | 12·9 | 96·5 | 54·0 | 42·5 | 24·0 |
| | Midnapur | 149 | 29·689 | ... | 29·787 | 30·035 | 29·258 | ·777 | ·251 | 75·7 | 90·4 | ... | 70·4 | ... | 80·4 | ... | 19·9 | 106·3 | 51·2 | 55·1 | 31·2 |
| | Calcutta | 21 | 29·827 | —·003 | 29·794 | 30·177 | 29·386 | ·791 | ·265 | 75·3 | 88·1 | +1·6 | 70·8 | +0·3 | 79·5 | +0·9 | 17·3 | 102·7 | 51·2 | 51·5 | 28·6 |
| | Jessore | 33 | 29·815 | —·007 | 29·795 | 30·172 | 29·405 | ·767 | ·270 | 75·2 | 87·2 | —0·6 | 70·6 | +0·7 | 78·9 | 0 | 16·7 | 102·5 | 49·2 | 53·3 | 29·1 |
| | Krishnagar | 47 | 29·795 | ... | 29·792 | 30·156 | 29·393 | ·763 | ·273 | 72·7 | 88·5 | ... | 69·5 | ... | 79·0 | ... | 19·0 | 101·1 | 44·0 | 60·1 | 32·0 |
| | Burdwan | 99 | 29·746 | —·005 | 29·795 | 30·110 | 29·313 | ·797 | ·266 | 75·1 | 89·1 | +0·1 | 70·7 | +0·1 | 79·9 | +0·1 | 18·4 | 106·4 | 49·8 | 56·6 | 31·3 |
| | Bankura | 313 | 29·516 | ... | 29·785 | 29·896 | 29·081 | ·815 | ·263 | 75·9 | 89·8 | ... | 70·1 | ... | 79·9 | ... | 19·7 | 110·1 | 49·7 | 60·4 | 31·8 |
| | Raniganj | 334 | 29·510 | ... | 29·805 | 29·894 | 29·087 | ·807 | ·253 | 72·9 | 89·1 | ... | 69·0 | ... | 79·1 | ... | 20·2 | 108·5 | 48·0 | 60·5 | 32·3 |
| | Berhampore | 67 | 29·781 | —·004 | 29·799 | 30·163 | 29·376 | ·787 | ·277 | 74·0 | 87·6 | —0·1 | 69·7 | +0·2 | 78·7 | 0 | 17·9 | 108·6 | 47·7 | 60·9 | 30·5 |
| | Naya Dumka | 489 | 29·319 | ... | 29·806 | 29·727 | 28·941 | ·786 | ·259 | 74·6 | 87·9 | ... | 68·2 | ... | 78·1 | ... | 19·7 | 109·9 | 41·0 | 65·9 | 32·7 |
| 7 | Balasore | 50 | 29·797 | —·001 | 29·793 | 30·163 | 29·334 | ·829 | ·267 | 75·9 | 88·6 | 0 | 70·6 | +0·1 | 79·6 | +0·1 | 18·0 | 103·4 | 53·1 | 50·3 | 29·7 |
| | False Point | 21 | 29·841 | +·006 | 29·804 | 30·182 | 29·400 | ·782 | ·258 | 77·5 | 85·6 | —0·2 | 71·2 | —0·9 | 78·5 | —0·6 | 14·5 | 100·1 | 53·1 | 47·0 | 26·1 |
| | Cuttack | 80 | 29·770 | —·001 | 29·795 | 30·119 | 29·325 | ·794 | ·246 | 76·0 | 90·1 | —1·3 | 72·0 | —0·5 | 81·1 | —0·9 | 18·1 | 106·9 | 54·7 | 52·2 | 28·9 |
| | Puri | 24 | 29·826 | ... | 29·789 | 30·171 | 29·377 | ·794 | ·258 | 78·5 | 86·9 | ... | 71·4 | ... | 80·7 | ... | 12·4 | 98·1 | 60·1 | 38·0 | 23·2 |
| | Angul | 455 | 29·389 | ... | 29·811 | 29·733 | 28·942 | ·791 | ·240 | 75·2 | 89·7 | ... | 69·5 | ... | 79·7 | ... | 20·2 | 101·1 | 51·0 | 53·1 | 31·6 |
| | Sambalpur | 486 | 29·367 | —·001 | 29·805 | 29·710 | 28·885 | ·825 | ·247 | 76·0 | 89·7 | —1·3 | 69·8 | —0·1 | 79·8 | —0·7 | 19·9 | 109·1 | 48·6 | 60·5 | 32·3 |
| 8 | Chaibassa | 733 | 29·097 | +·003 | 29·797 | 29·446 | 28·635 | ·811 | ·245 | 72·3 | 89·5 | —1·0 | (z) 67·8 | (z) —0·4 | (z) 78·8 | (z) —0·7 | (z) 21·8 | 109·8 | 48·3 | 61·5 | (z) 34·8 |
| | Ranchi | 2,128 | 27·716 | +·009 | 29·819 | 28·013 | 27·262 | ·751 | ·231 | 71·2 | 84·1 | —0·5 | 65·9 | +0·7 | 75·0 | +0·1 | 18·2 | 104·2 | 45·9 | 58·3 | 29·1 |
| | Purulia | 816 | 29·607 | ... | 29·788 | 29·368 | 28·562 | ·806 | ·250 | 71·9 | 89·7 | ... | 68·5 | ... | 79·1 | ... | 21·2 | 110·5 | 49·1 | 61·4 | 33·0 |
| | Hazaribagh | 2,007 | 27·322 | —·002 | 29·801 | 28·158 | 27·370 | ·788 | ·228 | 72·8 | 84·1 | —0·4 | 65·6 | 0 | 74·9 | —0·2 | 18·6 | 105·2 | 46·3 | 58·9 | 29·0 |
| | Daltonganj | 736 | 29·117 | ... | 29·820 | 29·501 | 28·631 | ·870 | ·254 | 71·5 | 89·0 | ... | 65·1 | ... | 77·1 | ... | 23·9 | 111·1 | 42·0 | 69·1 | 37·6 |
| 9 | Purnea | 134 | 29·719 | +·005 | 29·811 | 30·120 | 29·334 | ·786 | ·264 | 71·3 | 87·1 | +0·3 | 65·7 | —0·7 | 76·4 | —0·2 | 21·4 | 105·0 | 37·7 | 67·3 | 35·0 |
| | Bhagalpur | 160 | 29·684 | ... | 29·799 | 30·092 | 29·189 | ·903 | ·273 | 76·2 | 88·8 | ... | 68·1 | ... | 78·5 | ... | 20·7 | 110·2 | 43·8 | 66·4 | 34·0 |
| | Monghyr | 155 | 29·681 | ... | 29·791 | 30·101 | 29·207 | ·894 | ·266 | 75·1 | 87·7 | ... | 68·6 | ... | 78·2 | ... | 19·1 | 107·9 | 46·9 | 61·0 | 33·1 |
| | Darbhanga | 165 | 29·669 | —·010 | 29·793 | 30·076 | 29·281 | ·795 | ·264 | 72·9 | 88·1 | +2·2 | 66·7 | —1·9 | 77·4 | +0·1 | 21·4 | 108·6 | 38·8 | 69·8 | 35·4 |
| | Pusa | 188 | 29·646 | ... | 29·794 | 30·047 | 29·244 | ·803 | ·264 | 72·4 | 88·9 | ... | 65·8 | ... | 77·4 | ... | 23·1 | 111·1 | 37·9 | 73·2 | 36·7 |
| | Muzaffarpur | 178 | 29·662 | ... | 29·800 | 30·068 | 29·266 | ·802 | ·263 | 73·5 | 87·7 | ... | 66·4 | ... | 77·1 | ... | 21·3 | 108·7 | 38·5 | 70·2 | 35·0 |
| | Motihari | 224 | 29·610 | ... | 29·800 | 30·009 | 29·228 | ·781 | ·260 | 69·8 | 87·5 | ... | 65·4 | ... | 76·5 | ... | 22·1 | 105·9 | 35·8 | 70·1 | 35·7 |
| | Chapra | 181 | 29·648 | ... | 29·788 | 30·065 | 29·172 | ·893 | ·251 | 72·6 | 88·1 | ... | 67·2 | ... | 77·7 | ... | 20·9 | 108·2 | 42·9 | 65·3 | 33·9 |
| | Patna | 183 | 29·648 | —·013 | 29·788 | 30·059 | 29·218 | ·841 | ·254 | 75·6 | 86·9 | —0·8 | 68·9 | +0·5 | 77·9 | —0·2 | 17·9 | 106·0 | 43·2 | 62·8 | 31·2 |
| | Arrah | 190 | 29·645 | ... | 29·792 | 30·055 | 29·086 | ·969 | ·254 | 73·8 | 88·5 | ... | 67·2 | ... | 77·9 | ... | 21·3 | 109·4 | 41·7 | 67·7 | 33·9 |
| | Buxar | 239 | 29·587 | ... | 29·788 | 30·001 | 29·144 | ·857 | ·245 | 73·5 | 88·9 | ... | 68·0 | ... | 78·5 | ... | 20·9 | 110·0 | 41·6 | 68·4 | 34·5 |
| | Dehri | 351 | 29·472 | ... | 29·784 | 29·879 | 29·017 | ·862 | ·246 | 75·0 | 89·6 | ... | 70·2 | ... | 79·9 | ... | 19·5 | 112·3 | 50·0 | 62·3 | 31·7 |
| | Gaya | 372 | 29·453 | —·012 | 29·787 | 29·857 | 28·988 | ·869 | ·247 | 75·4 | 89·5 | —0·5 | 69·1 | +0·3 | 79·3 | —0·1 | 20·4 | 110·9 | 46·7 | 64·2 | 33·5 |

*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. (z) Mean of 11 months.

**B—*contd.***

*244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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.** |
| 5 | 64 | 56 | 12 | 18 | 73 | 86 | 19 | 32 | 11·7 | 11·7 | 0 | 86 | 0 | ·825 | —·008 | 4·9 | —0·8 | 83 | 81·96 | +1·04 | 70·78 | 72·23 | —1·45 | 4·06 | Saugor Island. |
| 38 | 91 | 36 | 6 | 17 | 125 | 18 | 12 | 22 | 2·9 | ... | ... | 73 | ... | ·677 | ... | 3·7 | ... | 83 | 78·22 | +4·78 | 68·33 | 61·26 | +7·07 | 5·85 | Midnapur. |
| 58 | 26 | 24 | 30 | 31 | 25 | 99 | 11 | 58 | 4·3 | 4·4 | —0·1 | 83 | 0 | ·763 | —·005 | 4·2 | 0 | 101 | 85·54 | +15·46 | 72·22 | 59·55 | +12·67 | 3·68 | Calcutta. |
| 253 | 5 | 5 | 4 | 41 | 32 | 15 | 5 | 5 | 1·1 | 3·0 | —1·9 | 81 | —5 | ·752 | —·039 | 4·3 | —0·4 | 90 | 88·45 | +1·55 | 82·23 | 64·02 | +18·21 | 12·07 | Jessore. |
| 179 | 6 | 5 | 35 | 34 | 50 | 24 | 17 | 15 | 2·3 | ... | ... | 87 | ... | ·743 | ... | 3·9 | ... | 90 | 74·20 | +15·80 | 75·13 | 55·12 | +20·01 | 6·37 | Krishnagar. |
| 109 | 37 | 23 | 31 | 15 | 25 | 59 | 29 | 37 | 2·4 | 3·1 | —0·7 | 78 | +2 | ·716 | +·010 | 4·6 | +0·1 | 91 | 77·88 | +13·12 | 79·85 | 57·06 | +22·79 | 10·26 | Burdwan. |
| 222 | 6 | 2 | 8 | 28 | 39 | 17 | 25 | 18 | 3·0 | ... | ... | 69 | ... | ·649 | ... | 3·3 | ... | 82 | 77·37 | +4·63 | 70·82 | 56·43 | +14·39 | 7·49 | Bankura. |
| 223 | 11 | 3 | 26 | 25 | 4 | 10 | 22 | 41 | 1·8 | ... | ... | 79 | ... | ·680 | ... | 4·1 | ... | 90 | 72·35 | +17·05 | 52·47 | 56·13 | —3·66 | 2·35 | Raniganj. |
| 121 | 21 | 14 | 49 | 31 | 62 | 44 | 5 | 18 | 3·0 | 3·2 | —0·2 | 89 | —5 | ·712 | —·031 | 4·8 | +0·1 | 84 | 77·22 | +6·78 | 72·85 | 55·13 | +17·72 | 6·52 | Berhampore. |
| 280 | 2 | 4 | 19 | 32 | 15 | 4 | ... | 9 | 2·1 | ... | ... | 71 | ... | ·645 | ... | 2·8 | ... | 78 | 79·60 | —1·60 | 55·82 | 58·65 | —2·83 | 3·83 | Naya Dumka. |
| 76 | 50 | 14 | 6 | 2 | 22 | 113 | 12 | 70 | 2·7 | 4·8 | —2·1 | 78 | —5 | ·714 | —·062 | 4·3 | —0·6 | 79 | 81·12 | —2·12 | 56·94 | 64·68 | —7·74 | 2·37 | Balasore. |
| 32 | 58 | 10 | 5 | 7 | 25 | 85 | 75 | 68 | | 9·3 | —1·5 | 84 | —1 | ·811 | —·015 | 5·6 | +0·4 | 73 | 73·74 | —0·74 | 63·04 | 65·69 | —2·65 | 4·89 | False Point. |
| 159 | 2 | 12 | 14 | 8 | 22 | 72 | 63 | 13 | 2·3 | 2·8 | —0·5 | 81 | +3 | ·759 | +·020 | 4·5 | +0·2 | 87 | 75·61 | +11·39 | 62·92 | 59·70 | +3·22 | 3·80 | Cuttack. |
| 35 | 121 | 22 | 4 | 2 | 9 | 137 | 15 | 18 | 10·8 | ... | ... | 81 | ... | ·813 | ... | 3·9 | ... | 59 | 62·68 | —3·68 | 59·37 | 58·14 | +1·23 | 5·77 | Puri. (*b*). |
| 45 | 19 | 32 | 14 | 29 | 12 | 14 | 50 | 149 | 6·3 | ... | ... | 78 | ... | ·699 | ... | 3·5 | ... | 67 | ... | ... | 39·15 | ... | ... | 1·82 | Angul. (*a*). |
| 1 | 23 | 51 | 33 | 46 | 34 | 129 | 33 | 15 | 4·5 | 3·6 | +0·9 | 70 | —1 | ·657 | —·002 | 4·6 | +0·7 | 77 | 72·09 | +4·91 | 65·08 | 67·39 | —2·31 | 5·62 | Sambalpur. |
| 87 | 3 | 17 | 19 | 9 | 20 | 155 | 54 | 10 | 2·7 | 1·8 | +0·9 | 77 | +3 | ·635 | —·023 | 4·4 | +0·8 | 76 | 75·30 | +0·70 | 60·93 | 51·29 | +9·64 | 3·60 | Chaibassa. |
| 43 | 25 | 15 | 20 | 19 | 38 | 42 | 94 | 69 | 6·6 | 6·3 | +0·3 | 65 | —2 | ·513 | —·025 | 4·2 | +0·7 | 80 | 81·49 | —1·49 | 59·46 | 55·79 | +3·67 | 2·53 | Ranchi. |
| 41 | 6 | 25 | 25 | 22 | 24 | 33 | 136 | 53 | 3·4 | ... | ... | 79 | ... | ·661 | ... | 4·0 | ... | 82 | 75·91 | +6·09 | 56·80 | 52·71 | +4·09 | 7·20 | Purulia. |
| 27 | 31 | 10 | 15 | 16 | 60 | 65 | 65 | 76 | 6·5 | 7·3 | —0·8 | 61 | —4 | ·500 | —·021 | 3·9 | —0·4 | 68 | 75·70 | —7·70 | 52·50 | 53·39 | —0·89 | 5·13 | Hazaribagh. |
| 329 | 5 | ... | 16 | 1 | 3 | 1 | 3 | 1 | 2·7 | ... | ... | 77 | ... | ·616 | ... | 3·6 | ... | 69 | 62·52 | +6·48 | 45·65 | 44·53 | +1·12 | 5·33 | Daltonganj. (*f*). |
| 153 | 4 | 82 | 22 | 33 | 7 | 25 | 5 | 22 | 2·4 | 3·1 | —0·7 | 82 | —2 | ·669 | —·020 | 3·7 | +0·1 | 69 | 70·51 | —1·51 | 68·61 | 64·88 | +3·73 | 5·39 | Purnea. (*l*). |
| 160 | 3 | 23 | 33 | 43 | 19 | 10 | 41 | 3 | 2·9 | ... | ... | 68 | ... | ·653 | ... | 3·6 | ... | 62 | 60·81 | +1·19 | 54·78 | 49·36 | +5·42 | 5·99 | Bhagalpur. |
| 56 | 7 | 14 | 85 | 45 | 5 | 34 | 91 | 26 | 5·9 | ... | ... | 75 | ... | ·685 | ... | 3·5 | ... | 65 | ... | ... | 58·25 | ... | ... | 4·72 | Monghyr. (*b*). |
| 106 | 2 | 20 | 96 | 10 | 7 | 22 | 50 | 12 | 3·0 | 4·0 | —1·0 | 77 | —2 | ·673 | —·008 | 3·7 | +0·8 | 58 | 58·35 | —0·35 | 62·95 | 51·07 | +11·88 | 7·34 | Darbhanga. |
| 123 | 6 | 40 | 93 | 18 | 7 | 47 | 21 | 10 | ... | ... | ... | 75 | ... | ·658 | ... | 2·7 | ... | 71 | ... | ... | 75·83 | ... | ... | 5·43 | Pusa. |
| 126 | 33 | 14 | 46 | 37 | 4 | 28 | 36 | 40 | 4·0 | ... | ... | 75 | ... | ·652 | ... | 2·0 | ... | 63 | 55·97 | +7·03 | 59·07 | 45·63 | +13·44 | 4·01 | Muzaffarpur. (*a*). |
| 165 | 6 | 37 | 101 | 7 | 7 | 11 | 18 | 13 | 2·3 | ... | ... | 84 | ... | ·666 | ... | 3·2 | ... | 68 | 55·74 | +12·26 | 60·35 | 51·66 | +8·69 | 3·80 | Motihari. |
| 22 | ... | 5 | ... | 1 | 9 | 36 | 13 | 4 | 3·2 | ... | ... | 74 | ... | ·633 | ... | 3·2 | ... | 64 | 52·29 | +11·71 | 41·22 | 40·89 | +0·33 | 2·50 | Chapra. (*i*). |
| 39 | 7 | 12 | 102 | 19 | 56 | 66 | 55 | 9 | 5·3 | 3·7 | +1·6 | 69 | —3 | ·652 | —·001 | 3·4 | —0·2 | 63 | 55·35 | +7·65 | 51·71 | 48·04 | +3·67 | 4·07 | Patna. |
| 94 | 10 | 44 | 24 | 26 | 22 | 83 | 51 | 11 | 2·5 | ... | ... | 70 | ... | ·624 | ... | 3·4 | ... | 58 | 55·93 | +2·07 | 40·71 | 46·04 | —5·33 | 2·75 | Arrah. |
| 29 | 11 | 9 | 97 | 17 | 33 | 93 | 65 | 10 | 5·3 | ... | ... | 69 | ... | ·599 | ... | 3·8 | ... | 60 | 54·74 | +5·26 | 45·72 | 41·55 | +4·17 | 3·24 | Buxar. (*a*). |
| 29 | 5 | 5 | 48 | 20 | 38 | 157 | 46 | 15 | 3·7 | ... | ... | 65 | ... | ·599 | ... | 4·5 | ... | 59 | 55·34 | +3·66 | 40·90 | 43·20 | —2·30 | 4·45 | Dehri. |
| 94 | 6 | 48 | 11 | 29 | 44 | 32 | 91 | 10 | 3·0 | 3·7 | —0·7 | 68 | —3 | ·630 | —·007 | 3·4 | —0·3 | 63 | 57·38 | +5·62 | 61·91 | 47·00 | +14·91 | 6·56 | Gaya. |

* Uncorrected for scale error.
(*r*) Mean of 3 months.

(*l*) Wind observations for 353 days.
(*b*) " " " 363 "
(*a*) " " " 364 "
(*f*) " " " 359 "
(*i*) " " " 90 "

**Table**

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

| Number of sub-division. | Station. | Elevation 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 recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Temperature of air. Mean of 8 hrs. temperature 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 |
| | **IV.—United Provinces of Agra and Oudh** | | | | | | | | | | | | | | | | | | | | |
| 10 | Gorakhpur | 257 | 29·564 | −·005 | 29·784 | 29·965 | 29·147 | ·818 | ·250 | 73·3 | 88·1 | +0·1 | 65·2 | −2·2 | 76·6 | −1·1 | 22·8 | 108·1 | 39·5 | 68·6 | 36·1 |
| | Benares | 267 | 29·566 | +·002 | 29·795 | 29·989 | 29·098 | ·891 | ·247 | 74·3 | 89·6 | 0 | 66·1 | −0·8 | 77·9 | −0·4 | 23·5 | 111·6 | 40·1 | 71·5 | 36·9 |
| | Allahabad | 309 | 29·524 | +·001 | 29·794 | 29·934 | 29·081 | ·853 | ·244 | 73·7 | 89·6 | −0·5 | 66·3 | −0·5 | 78·0 | −0·6 | 23·3 | 112·1 | 39·5 | 72·6 | 37·1 |
| | Cawnpore | 416 | 29·401 | −·002 | 29·788 | 29·807 | 28·972 | ·835 | ·247 | 72·5 | 89·8 | −0·1 | 64·2 | −2·2 | 77·1 | −1·2 | 25·6 | 111·2 | 36·5 | 74·7 | 38·9 |
| | Lucknow | 368 | 29·464 | +·005 | 29·801 | 29·879 | 29·029 | ·850 | ·245 | 72·2 | 89·2 | −0·6 | 65·2 | −0·3 | 77·3 | −0·5 | 23·9 | 109·5 | 39·1 | 70·4 | 37·4 |
| | Bahraich | 401 | 29·417 | −·002 | 29·789 | 29·818 | 29·015 | ·803 | ·241 | 71·6 | 89·2 | +1·0 | 65·5 | −0·1 | 77·4 | +0·5 | 23·7 | 109·6 | 38·5 | 71·1 | 37·0 |
| 11 | Jhansi | 824 | 29·024 | +·004 | 29·819 | 29·415 | 28·607 | ·808 | ·239 | 76·9 | 90·0 | −1·2 | 69·7 | +0·7 | 79·9 | −0·2 | 20·3 | 111·5 | 46·0 | 65·5 | 33·7 |
| | Agra | 556 | 29·273 | −·003 | 29·803 | 29·675 | 28·858 | ·817 | ·249 | 72·7 | 88·9 | −1·9 | 66·8 | −0·9 | 77·8 | −1·4 | 22·1 | 110·5 | 39·5 | 71·0 | 36·3 |
| | Mainpuri | 516 | 29·306 | +·005 | 29·793 | 29·707 | 28·933 | ·774 | ·243 | 71·6 | 89·4 | −0·4 | 64·5 | −1·1 | 76·9 | −0·8 | 24·9 | 113·3 | 38·6 | 74·7 | 38·6 |
| | Bareilly | 568 | 29·241 | −·003 | 29·788 | 29·637 | 28·863 | ·774 | ·249 | 70·6 | 87·2 | −0·1 | 64·4 | −0·3 | 75·8 | −0·1 | 22·7 | 108·8 | 39·5 | 69·3 | 36·3 |
| | Meerut | 738 | 29·066 | −·007 | 29·791 | 29·449 | 28·679 | ·770 | ·256 | 68·7 | 86·6 | −1·2 | 62·4 | −1·4 | 74·5 | −1·3 | 24·2 | 108·1 | 37·3 | 70·8 | 37·5 |
| | Roorkee | 899 | 28·923 | +·014 | 29·817 | 29·311 | 28·550 | ·761 | ·262 | 68·1 | 85·2 | −2·0 | 61·7 | −0·9 | 73·5 | −1·5 | 23·5 | 108·5 | 33·4 | 75·1 | 37·3 |
| | Dehra Dun | 2,233 | 27·589 | −·007 | 29·818 | 27·919 | 27·255 | ·664 | ·244 | 66·0 | 81·5 | +0·3 | 60·3 | −0·6 | 70·9 | −0·1 | 21·1 | 102·5 | 34·5 | 68·0 | 32·7 |
| | **V.—Punjab.** | | | | | | | | | | | | | | | | | | | | |
| 12 | Delhi | 718 | 29·103 | +·004 | 29·804 | 29·489 | 28·716 | ·773 | ·267 | 70·9 | 87·0 | −2·0 | 66·8 (z) | −0·7 (z) | 76·9 (z) | −1·4 (z) | 20·2 (z) | 109·7 | 37·2 | 72·5 | 35·8 (z) |
| | Sirsa | 662 | 29·151 | +·003 | 29·797 | 29·567 | 28·716 | ·851 | ·290 | 71·2 | 89·1 | −2·9 | 64·4 | −1·2 | 76·8 | −2·2 | 24·9 | 111·3 | 33·1 | 81·2 | 41·7 |
| | Patiala | *818* | 29·002 | ... | 29·811 | 29·411 | 28·608 | ·803 | ·278 | 69·8 | 85·9 | ... | 62·8 | ... | 74·3 | ... | 23·1 | 111·5 | 36·0 | 75·5 | 37·1 |
| | Ambala | 892 | 28·916 | +·008 | 29·801 | 29·322 | 28·527 | ·795 | ·269 | 69·1 | 87·2 | −0·7 | 62·4 | −0·8 | 74·8 | −0·8 | 24·8 | 113·0 | 32·0 | 81·0 | 39·7 |
| | Ludhiana | 812 | 28·989 | +·007 | 29·806 | 29·403 | 28·583 | ·820 | ·288 | 68·4 | 86·2 | −2·1 | 63·5 | −0·2 | 74·9 | −1·1 | 22·7 | 114·5 | 35·0 | 79·5 | 37·3 |
| | Lahore | 702 | 29·104 | +·002 | 29·800 | 29·532 | 28·650 | ·882 | ·312 | 68·4 | 88·1 | −2·6 | 62·5 | +1·6 | 75·3 | −0·5 | 25·6 | 115·4 | 34·2 | 81·2 | 41·4 |
| | Sialkot | 830 | 28·980 | +·010 | 29·809 | 29·398 | 28·535 | ·863 | ·295 | 68·0 | 85·4 | −2·3 | 60·6 | −2·0 | 73·0 | −2·2 | 24·8 | 114·0 | 33·5 | 80·5 | 41·2 |
| 13 | Rawalpindi | 1,671 | 28·117 | +·003 | 29·844 | 28·532 | 27·713 | ·819 | ·300 | 65·7 | 82·9 | −1·3 | 57·4 | −0·2 | 70·2 | −0·8 | 25·5 | 111·9 | 30·4 | 81·5 | 41·3 |
| | Khushab | 612 | 29·213 (y) | +·019 (y) | 29·813 (y) | 29·673 | 28·723 | ·950 | ·334 (y) | 72·0 | 89·2 | −0·4 | 64·2 | +0·5 | 76·7 | +0·1 | 25·0 | 115·4 | 34·4 | 81·0 | 41·7 |
| | Montgomery | 558 | 29·263 | +·017 | 29·805 | 29·696 | 28·773 | ·923 | ·335 | 72·3 | 89·6 | −2·7 | 63·4 | −1·0 | 76·5 | −1·9 | 26·2 | 114·4 | 33·6 | 80·8 | 42·3 |
| | Multan | 420 | 29·402 | +·007 | 29·798 | 29·879 | 28·884 | ·995 | ·333 | 72·7 | 90·5 | −1·4 | 63·6 | +1·3 | 78·6 | −0·1 | 23·9 | 117·8 | 38·0 | 79·8 | 38·9 |
| | **VI.—North-West Frontier Province.** | | | | | | | | | | | | | | | | | | | | |
| 1 | Peshawar | 1,110 | 28·726 | −·007 | 29·854 | 29·163 | 28·242 | ·921 | ·327 | 66·8 | 84·4 | −1·3 | 59·5 | +0·3 | 71·9 | −0·5 | 24·9 | 113·2 | 32·4 | 80·8 | 40·5 |
| | Dera Ismail Khan | 590 | 29·237 | −·004 | 29·787 | 29·707 | 28·711 | ·996 | ·350 | 69·1 | 88·4 | −2·0 | 62·3 | −0·1 | 75·4 | −1·1 | 26·2 | 116·4 | 33·1 | 83·3 | 43·1 |
| | **VII.—Sind.** | | | | | | | | | | | | | | | | | | | | |
| 17 | Jacobabad | 186 | 29·632 | +·001 | 29·785 | 30·120 | 29·112 | 1·008 | ·325 | 73·4 | 95·8 | +0·2 | 66·1 | +0·8 | 81·0 | +0·5 | 29·7 | 122·6 | 32·3 | 90·3 | 45·3 |
| | Hyderabad | 96 | 29·742 | 0 | 29·794 | 30·188 | 29·250 | ·938 | ·295 | 74·5 | 92·3 | −1·2 | 68·2 | −0·1 | 80·3 | −0·7 | 24·1 | 115·5 | 41·5 | 74·0 | 39·3 |
| | Karachi | 13 | 29·860 | +·006 | 29·823 | 30·279 | 29·309 | ·880 | ·280 | 74·8 | 84·3 | +0·2 | 71·0 | +0·2 | 77·7 | +0·2 | 13·3 | 109·0 | 45·5 | 63·5 | 25·9 |

(y) Mean of 10 months.
(z) Mean of 11 months.

N. B.—Elevation in italics indicate barometrica 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—*contd.*

*244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | **IV.—United Provinces of Agra and Oudh.** |
| 285 | 6 | 39 | 6 | 3 | 5 | 6 | 10 | 5 | (v) 3·1 | 2·3 | (v) +0·3 | 74 | −1 | ·618 | +·006 | 2·3 | −0·4 | 73 | 51·10 | +18·90 | 53·65 | 52·01 | +1·64 | 3·60 | Gorakhpur. |
| 135 | 9 | 14 | 36 | 30 | 10 | 72 | 47 | 12 | 2·8 | 3·7 | −0·9 | 69 | −5 | ·593 | −·029 | 3·5 | +0·1 | 59 | 59·90 | +8·10 | 41·75 | 49·99 | +0·76 | 3·10 | Benares. |
| 87 | 7 | 29 | 43 | 10 | 9 | 36 | 118 | 26 | 3·5 | 5·1 | −1·6 | 63 | −4 | ·553 | −·041 | 1·2 | +0·7 | 52 | 45·30 | +6·70 | 16·48 | 40·73 | +5·75 | 4·60 | Allahabad. |
| 86 | 23 | 14 | 55 | 20 | 6 | 41 | 87 | 33 | 3·0 | 3·7 | −0·7 | 64 | −3 | ·551 | −·037 | 1·5 | −1·4 | 55 | 43·00 | +12·00 | 39·07 | 35·94 | +3·13 | 4·40 | Cawnpore. |
| 149 | 7 | 16 | 55 | 32 | 11 | 33 | 43 | 19 | 2·5 | 3·0 | −0·5 | 67 | −3 | ·572 | −·020 | 2·8 | −0·5 | 59 | 51·00 | +8·00 | 47·17 | 38·89 | +8·28 | 5·48 | Lucknow. |
| 188 | 19 | 7 | 51 | 24 | 6 | 8 | 27 | 35 | 3·3 | 3·1 | +0·2 | 70 | −5 | ·584 | −·057 | 3·3 | +0·5 | 51 | 50·40 | +0·60 | 47·59 | 48·91 | −1·41 | 4·03 | Bahraich. |
| 133 | 21 | 33 | 12 | 19 | 10 | 70 | 39 | 28 | 4·9 | 3·3 | +1·6 | 60 | +5 | ·583 | +·070 | 2·5 | +0·1 | 46 | 43·90 | +2·10 | 31·12 | 38·51 | −7·39 | 2·97 | Jhansi. |
| 82 | 6 | 24 | 20 | 42 | 32 | 78 | 47 | 34 | 5·2 | 4·5 | +0·7 | 61 | 0 | ·529 | −·004 | 3·5 | +0·7 | 49 | 35·30 | +13·70 | 30·17 | 28·42 | +1·75 | 3·70 | Agra. |
| 68 | 22 | 17 | 49 | 20 | 21 | 33 | 85 | 50 | 2·1 | 1·8 | +0·3 | 70 | +4 | ·599 | +·045 | 1·4 | −1·9 | 55 | 38·10 | +16·90 | 29·92 | 31·76 | −1·84 | 4·10 | Mainpuri. |
| 279 | 4 | 2 | 24 | 10 | 3 | 2 | 30 | 11 | 1·6 | 2·8 | −1·2 | 74 | +2 | ·607 | +·024 | 3·7 | +0·7 | 49 | 47·17 | +1·83 | 44·12 | 47·86 | −3·74 | 4·61 | Bareilly. |
| 256 | 3 | 7 | 18 | 10 | 8 | 5 | 45 | 13 | 1·1 | 2·1 | −1·0 | 71 | +5 | ·544 | +·037 | 2·9 | −0·1 | 52 | 37·00 | +15·00 | 49·09 | 32·07 | +17·02 | 8·94 | Meerut. |
| 238 | 1 | 2 | 3 | 73 | ... | 1 | 2 | 15 | 2·6 | 2·5 | +0·1 | 73 | +2 | ·528 | +·005 | 3·0 | −0·1 | 52 | 49·10 | +2·90 | 41·05 | 43·22 | −2·17 | 4·75 | Roorkee. |
| 355 | 1 | ... | 1 | 1 | 1 | ... | 1 | ... | 1·1 | 1·5 | −0·4 | 71 | +1 | ·484 | +·006 | 4·1 | +0·1 | 96 | 80·90 | +15·10 | 111·18 | 89·19 | +21·99 | 8·69 | Dehra Dun. (e). |
| | | | | | | | | | | | | | | | | | | | | | | | | | **V.—Punjab.** |
| 36 | 15 | 10 | 29 | 46 | 13 | 23 | 138 | 55 | 4·1 | 3·5 | +0·6 | 68 | +10 | ·550 | +·060 | 3·2 | −0·2 | 50 | 37·10 | +12·90 | 37·94 | 28·09 | +9·85 | 3·93 | Delhi. |
| 75 | 18 | 20 | 27 | 44 | 28 | 76 | 45 | 32 | 4·0 | 4·8 | −0·8 | 63 | +4 | ·514 | +·027 | 2·4 | −0·9 | 35 | 23·40 | +11·60 | 26·46 | 14·43 | +12·03 | 5·81 | Sirsa. |
| 60 | 58 | 9 | 54 | 65 | 22 | 11 | 36 | 50 | 4·8 | ... | ... | 68 | ... | ·536 | ... | 3·3 | ... | 48 | ... | ... | 35·98 | ... | ... | 5·30 | Patiala. |
| 102 | 7 | 7 | 7 | 107 | 7 | 14 | 15 | 99 | 4·6 | 2·0 | +2·6 | 68 | −6 | ·513 | −·044 | 3·5 | +0·8 | 48 | 36·90 | +11·10 | 30·21 | 32·96 | −2·75 | 3·76 | Ambala. |
| 244 | 2 | 18 | ... | 46 | 3 | 8 | 6 | 38 | 1·4 | 1·9 | −0·5 | 67 | +1 | ·501 | −·015 | 2·8 | −0·8 | 50 | 32·70 | +17·30 | 42·79 | 28·67 | +14·12 | 4·25 | Ludhiana. |
| 126 | 28 | 22 | 22 | 59 | 28 | 2 | 53 | 25 | 2·6 | 2·4 | +0·2 | 71 | +6 | ·535 | +·032 | 2·5 | −0·2 | 37 | 22·90 | +14·10 | 30·28 | 20·10 | +10·18 | 3·67 | Lahore. |
| 141 | 44 | 56 | 57 | 25 | 7 | 4 | 10 | 21 | 1·9 | 2·0 | −0·1 | 74 | +8 | ·538 | +·028 | 2·2 | −0·3 | 49 | 40·70 | +8·30 | 29·93 | 31·75 | −1·82 | 2·92 | Sialkot. |
| 230 | 39 | 23 | 21 | 9 | 7 | 10 | 13 | 13 | 2·6 | 2·1 | +0·5 | 66 | −2 | ·451 | −·009 | 3·3 | +0·1 | 46 | 47·30 | −1·30 | 38·27 | 33·98 | +4·29 | 5·04 | Rawalpindi. |
| 114 | 16 | 91 | 61 | 22 | 18 | 23 | 11 | 8 | 4·9 | 5·0 | −0·1 | 56 | +1 | ·469 | +·021 | 1·9 | −0·3 | 22 | 18·00 | +4·00 | 11·21 | 14·12 | −2·91 | 1·25 | Khushab (a). |
| 73 | 32 | 38 | 46 | 33 | 50 | 52 | 19 | 22 | 5·8 | 5·9 | −0·1 | 53 | −2 | ·447 | −·028 | 2·0 | −0·2 | 25 | 16·10 | +8·90 | 15·99 | 10·25 | +5·74 | 2·38 | Montgomery. |
| 187 | 55 | 38 | 3 | 38 | 11 | 26 | 1 | 6 | 1·5 | 2·1 | −0·6 | 60 | 0 | ·518 | +·003 | 1·7 | 0 | 16 | 12·40 | +3·60 | 8·29 | 7·30 | +0·99 | 3·16 | Multan. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **VI.—North-West Frontier Province.** |
| 199 | 29 | 20 | 12 | 7 | 26 | 16 | 33 | 23 | 1·9 | 3·3 | −1·4 | 61 | −2 | ·445 | −·010 | 2·9 | −0·1 | 22 | 23·80 | −1·80 | 10·98 | 13·09 | −2·11 | 1·20 | Peshawar. |
| 171 | 18 | 77 | 4 | 29 | 6 | 6 | 3 | 51 | 1·6 | 1·8 | −0·2 | 66 | +2 | ·520 | +·004 | 1·9 | −0·1 | 15 | 17·60 | −2·60 | 11·19 | 8·53 | +2·66 | 2·50 | Dera Ismail Khan. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **VII.—Sind.** |
| 82 | 83 | 52 | 15 | 27 | 14 | 11 | 5 | 76 | 4·1 | 3·4 | +0·7 | 59 | +4 | ·529 | +·021 | 2·2 | +0·2 | 4 | 8·20 | −4·20 | 1·41 | 3·78 | −2·37 | 0·45 | Jacobabad. |
| 35 | 67 | 16 | 2 | 7 | 52 | 141 | 11 | 33 | 7·9 | 11·1 | −3·2 | 61 | +3 | ·565 | +·036 | 2·7 | 0 | 12 | 9·70 | +2·30 | 7·03 | 6·00 | +0·1 | 2·80 | Hyderabad (e). |
| 13 | 33 | 71 | 17 | 5 | 1 | 38 | 144 | 43 | 11·6 | 12·6 | −1·0 | 73 | −3 | ·665 | −·013 | 3·8 | +0·2 | 8 | 9·30 | −1·30 | 7·09 | 8·26 | −1·17 | 3·42 | Karachi. |

(v) = Mean of 7 months.
(e) = Wind observations for 60 days.
(a) = " " 364 days.

# TABLE

## (2) *Abstract of observations taken at 8 hrs. at 244*

| Number of sub-division. | Station. | Elevation of bar. cistern above sea-level, in feet. | Pressure, 8 hrs., in inches. | | | | | | | Temperature of air. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 8 hrs. pressure reduced to 32°. | Departure from normal. | Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat. | Highest pressure recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Mean of 8 hrs. temperature 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 |
| | **VIII.—Rajputana.** | | | | | | | | | | | | | | | | | | | | |
| 18 | Bikaner | 771 | 29·033 | −·003 | 29·798 | 29·445 | 28·566 | ·879 | ·295 | 72·8 | 90·8 | −1·1 | 67·4 | −2·3 | 79·1 | −1·7 | 23·5 | 117·1 | 38·0 | 79·1 | 39·9 |
| | Jodhpur | 780 | 29·065 | +·001 | 29·816 | 29·450 | 28·601 | ·849 | ·282 | 72·3 | 89·9 | −3·2 | 66·1 | −2·2 | 78·0 | −2·7 | 23·8 | 114·5 | 39·3 | 75·2 | 39·0 |
| | Pachpadra (L) | 380 | 29·415 | +·003 | 29·761 | 29·859 | 28·994 | ·865 | ·297 | 74·2 | 93·6 | −2·5 | 65·7 | −2·1 | 79·6 | −2·3 | 27·9 | 117·9 | 34·0 | 83·9 | 43·5 |
| 19 | Jaipur | 1,431 | 28·417 | +·001 | 29·834 | 28·766 | 28·022 | ·744 | ·239 | 73·2 | 89·4 | −1·5 | 65·0 | −0·7 | 77·2 | −1·1 | 24·5 | 111·7 | 36·1 | 75·6 | 39·1 |
| | Sambhar | 1,254 | 28·591 | +·013 | 29·839 | 28·950 | 28·176 | ·774 | ·253 | 70·5 | 88·9 | −1·2 | 63·3 | −1·9 | 76·1 | −1·6 | 25·6 | 112·4 | 33·9 | 79·0 | 40·9 |
| | Ajmer | 1,611 | 28·244 | −·002 | 29·855 | 28·582 | 27·794 | ·788 | ·249 | 68·9 | 86·0 | −2·9 | 65·7 | +1·4 | 75·9 | −0·8 | 20·2 | 109·9 | 39·7 | 70·2 | 34·1 |
| | Kotah | 819? | 29·007 | −·007 | 29·838 | 29·379 | 28·561 | ·818 | ·252 | y 79·5 | y 93·5 | y −2·3 | y 72·6 | y −1·8 | y 83·0 | y −2·1 | y 20·9 | 112·5 | 47·6 | 64·9 | y 33·5 |
| | Udaipur | 1,925 | 27·945 | −·006 | 29·849 | 28·257 | 27·526 | ·731 | ·235 | 72·6 | 86·5 | −2·1 | 64·0 | −0·8 | 75·2 | −1·5 | 22·5 | 109·0 | 38·8 | 70·2 | 36·9 |
| | **IX.—Bombay.** | | | | | | | | | | | | | | | | | | | | |
| 20 | Deesa | 466 | 29·395 | −·006 | 29·825 | 29·748 | 28·994 | ·754 | ·249 | 74·1 | 93·1 | −0·7 | 66·3 | −0·7 | 79·8 | −0·7 | 26·8 | 115·3 | 40·9 | 74·4 | 40·0 |
| | Bhuj | 395 | 29·478 | +·009 | 29·833 | 29·827 | 29·038 | ·789 | ·243 | 74·6 | 89·8 | −1·7 | 68·0 | −0·7 | 79·0 | −1·2 | 21·8 | 109·5 | 42·5 | 67·0 | 34·5 |
| | Jamnagar | 61 | 29·624 | ... | 29·830 | 30·175 | 29·364 | ·811 | ·257 | 77·2 | 88·2 | ... | 68·1 | ... | 78·2 | ... | 20·1 | 106·4 | 41·7 | 64·7 | 31·9 |
| | Dwarka | 37? | 29·856 | ... | 29·839 | 30·190 | 29·445 | ·745 | ·237 | 76·7 | 83·2 | ... | 72·2 | ... | 77·7 | ... | 11·0 | 95·8 | 49·7 | 46·1 | 22·4 |
| | Rajkot | 429 | 29·454 | +·006 | 29·842 | 29·755 | 29·065 | ·690 | ·228 | 74·7 | 91·5 | −1·6 | 65·8 | −0·3 | 78·7 | −1·0 | 25·7 | 111·9 | 36·0 | 75·9 | 39·3 |
| | Veraval | *18* | 29·874 | +·004 | 29·834 | 30·144 | 29·485 | ·659 | ·219 | 75·3 | 84·4 | −0·8 | 70·4 | −0·6 | 77·4 | −0·7 | 14·0 | 100·7 | 50·3 | 50·4 | 26·3 |
| | Bhavnagar Para | 55 | 29·831 | −·032 | 29·831 | 30·123 | 29·455 | ·668 | ·219 | 76·4 | 92·9 | 0 | 68·6 | −1·7 | 80·7 | −0·8 | 24·3 | 112·7 | 40·5 | 72·2 | 36·6 |
| | Surat | 39 | 29·843 | −·012 | 29·827 | 30·036 | 29·499 | ·537 | ·215 | 75·9 | 90·2 | −1·3 | 70·2 | +0·9 | 80·2 | −0·3 | 20·1 | 110·6 | 47·6 | 63·0 | 31·3 |
| | Ahmedabad | 163 | z 29·708 | z −·013 | z 29·823 | 30·050 | 29·325 | ·725 | z ·230 | 75·5 | 93·3 | −0·7 | 70·1 | −0·7 | 81·7 | −0·7 | 23·2 | 113·6 | 46·7 | 66·9 | 34·6 |
| | Bombay | 37 | 29·861 | −·013 | 29·838 | 30·070 | 29·549 | ·521 | ·202 | 77·4 | 85·9 | +0·1 | 74·6 | −0·3 | 80·2 | −0·1 | 11·3 | 95·5 | 61·5 | 34·0 | 18·3 |
| 26 | Ratnagiri | 110 | 29·786 | −·008 | 29·836 | 29·979 | 29·495 | ·484 | ·185 | 78·3 | 86·5 | −1·0 | 72·5 | −0·6 | 79·5 | −0·8 | 14·0 | 95·8 | 56·9 | 38·9 | 23·6 |
| | Goa | 199 | u 29·693 | u −·022 | u 29·831 | 29·846 | 29·417 | ·429 | u ·187 | 77·8 | 83·8 | −2·2 | 74·7 | +0·2 | 79·3 | −1·0 | 9·1 | 90·1 | 65·1 | 25·0 | 16·3 |
| | Mormugao | 60 | 29·846 | −·014 | 29·841 | 30·015 | 29·570 | ·445 | ·187 | 78·3 | 85·3 | −0·9 | 74·4 | −0·6 | 79·9 | −0·8 | 10·9 | 92·5 | 63·7 | 28·8 | 18·0 |
| | Karwar | 44 | 29·874 | −·005 | 29·852 | 30·027 | 29·596 | ·431 | ·179 | 75·4 | 86·0 | −0·3 | 72·4 | −0·3 | 79·2 | −0·3 | 13·6 | 92·8 | 59·0 | 33·8 | 22·0 |
| 27 | Malegaon | 1,430 | 28·443 | −·015 | 29·845 | 28·691 | 28·084 | ·607 | ·202 | 74·5 | 92·2 | +0·7 | 65·0 | −0·1 | 78·7 | +0·3 | 27·2 | 110·4 | 44·1 | 66·3 | 39·6 |
| | Ahmednagar | 2,154 | 27,759 | +·007 | 29·876 | 27·990 | 27·440 | ·550 | ·183 | 73·7 | 90·0 | +1·1 | 64·4 | +0·9 | 77·2 | +1·0 | 25·6 | 108·4 | 47·5 | 60·9 | 37·5 |
| | Poona | 1,846 | 28·062 | 0 | 29·882 | 28·276 | 27·751 | ·525 | ·185 | 72·1 | 89·0 | −0·3 | 64·4 | −0·3 | 76·7 | −0·3 | 24·6 | 108·0 | 46·0 | 62·0 | 36·3 |
| | Sholapur | 1,590 | 28·295 | −·015 | 29·849 | 28·533 | 27·989 | ·544 | ·186 | 75·6 | 92·3 | −0·6 | 68·9 | +1·0 | 80·6 | +0·2 | 23·5 | 110·3 | 53·9 | 56·4 | 33·7 |
| | Bijapur | *1,948* | 27,941 | −·013 | 29·845 | 28·161 | 27·651 | ·510 | ·169 | 75·3 | 91·1 | +1·3 | 68·0 | +0·5 | 79·6 | +0·9 | 23·1 | 107·2 | 52·7 | 54·5 | 33·5 |
| | Belgaum | 2,539 | 27·366 | −·007 | 29·851 | 27·553 | 27·108 | ·445 | ·171 | 72·1 | 84·9 | +0·5 | 63·9 | −0·1 | 74·4 | +0·2 | 21·0 | 102·3 | 52·6 | 49·7 | 30·4 |
| | **X.—Central India.** | | | | | | | | | | | | | | | | | | | | |
| 21 | Neemuch | 1,624 | 28·232 | −·004 | 29·846 | 28·550 | 27·830 | ·720 | ·227 | 71·0 | 87·3 | −1·6 | 63·8 | −0·8 | 75·5 | −1·2 | 23·5 | 107·0 | 39·8 | 67·2 | 37·2 |
| | Indore | 1,823 | 28·059? | +·016? | 29·862? | 28·338 | 27·676 | ·662 | ·212 | 72·3 | 87·7 | −0·3 | 64·1 | +0·5 | 75·9 | +0·1 | 23·6 | 107·1 | 42·6 | 64·5 | 36·2 |
| 22 | Nowgong | 754 | 29·077 | −·009 | 29·867 | 29·455 | 28·667 | ·788 | ·231 | 71·7 | 88·1 | −1·6 | 65·3 | +0·1 | 76·7 | −0·8 | 22·7 | 111·5 | 39·0 | 72·5 | 36·8 |
| | Sutna | 1,040 | 28·776 | −·014 | 29·798 | 29·129 | 28·345 | ·784 | ·231 | 73·3 | 88·4 | +0·3 | 66·8 | +1·2 | 77·6 | +0·7 | 21·5 | 110·5 | 41·7 | 68·8 | 35·0 |
| | **XI.—Central Provinces.** | | | | | | | | | | | | | | | | | | | | |
| 23 | Buldana | 2,132 | 27·760 | ... | 29·847 | 27·994 | 27·426 | ·568 | ·194 | 75·0 | 87·1 | ... | 68·2 | ... | 77·7 | ... | 18·9 | 106·7 | 52·0 | 54·7 | 30·0 |
| | Akola | 930 | 28·941 | −·001 | 29·837 | 29·222 | 28·554 | ·668 | ·207 | 75·8 | 93·2 | +0·4 | 67·9 | +0·7 | 80·6 | +0·5 | 25·3 | 113·7 | 47·6 | 66·1 | 39·1 |
| | Amraoti | 1,215 | 28·642 | −·005 | 29·822 | 28·913 | 28·240 | ·673 | ·203 | 76·2 | 91·7 | −0·3 | 69·4 | +0·5 | 80·5 | +0·1 | 22·3 | 111·3 | 50·8 | 60·5 | 35·0 |

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.

y = Mean of 10 months.
z = Mean of 11 months.
u = Mean of 6 months.
L = Mean of 10 months except normal rainfall.

**B.—*contd.***

***stations in India, etc., in the year 1909.***

| 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. | Normal. | 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 in inches of mercury 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | **VIII.—Rajputana.** |
| 33 | 27 | 28 | 30 | 24 | 36 | 81 | 72 | 32 | 6·3 | 5·9 | +0·4 | 54 | +1 | ·483 | —·016 | 2·6 | 0 | 29 | 18·80 | +10·20 | 23·01 | 11·29 | +11·72 | 5·59 | Bikaner. (*b*) |
| 57 | 44 | 79 | 5 | 8 | 32 | 107 | 26 | 7 | 4·6 | ... | ... | 56 | +8 | ·483 | ... | 3·6 | ... | 31 | 20·30 | +10·70 | 19·97 | 13·14 | +6·83 | 4·71 | Jodhpur. |
| 78 | 4 | 14 | 14 | 19 | 9 | 73 | 6 | 25 | u. 5·8 | 7·0 | u —1·7 | 64 | ... | ·601 | ... | 2·5 | ... | 23 | 19·10 | +3·90 | 14·31 | 13·30 | +1·01 | 1·74 | Pachpadra‡. |
| 74 | 47 | 62 | 38 | 17 | 5 | 11 | 43 | 68 | 4·6 | 4·4 | +0·2 | 57 | —1 | ·499 | +·005 | 3·3 | +0·1 | 42 | 37·80 | +4·20 | 25·96 | 26·05 | —0·09 | 3·90 | Jaipur. |
| 163 | 29 | 32 | 20 | 7 | 7 | 5 | 70 | 32 | 5·6 | 6·4 | —0·8 | 63 | +6 | ·504 | +·024 | 3·0 | +0·1 | 44 | 31·30 | +12·70 | 27·58 | 20·74 | +6·84 | 2·45 | Sambhar. |
| 169 | 5 | 25 | 3 | 9 | 6 | 36 | 70 | 42 | 6·1 | 5·0 | +1·1 | 67 | +4 | ·513 | +·011 | 3·2 | +0·5 | 44 | 32·60 | +11·40 | 30·47 | 21·80 | +8·67 | 3·25 | Ajmer. |
| 130 | 42 | 15 | 9 | 11 | 5 | 45 | 57 | 51 | 3·3 | ... | ... | y 58 | +9 | y ·586 | ... | 2·7 | ... | 47 | 37·60 | +9·40 | 36·35 | 26·83 | +9·52 | 5·65 | Kotah. |
| 192 | 16 | 3 | 3 | 1 | 9 | 37 | 72 | 31 | 3·6 | ... | ... | 61 | +5 | ·513 | ... | 3·3 | ... | 44 | 34·10 | +9·90 | 41·80 | 21·36 | +20·44 | 5·07 | Udaipur. (*a*). |
| | | | | | | | | | | | | | | | | | | | | | | | | | **IX.—Bombay.** |
| 44 | 41 | 67 | 23 | 6 | 20 | 77 | 74 | 13 | * 9·0 | 10·2 | —1·2 | 59 | +3 | ·537 | +·013 | 3·5 | +0·1 | 33 | 28·81 | +4·19 | 28·05 | 24·12 | +3·93 | 6·70 | Deesa. |
| 31 | 26 | 20 | 10 | 12 | 5 | 63 | 107 | 83 | 10·4 | 11·1 | —0·7 | 68 | +4 | ·610 | —·001 | 3·8 | +0·9 | 22 | 16·10 | +5·90 | 19·09 | 14·52 | +4·57 | 4·94 | Bhuj. (*h*) |
| 60 | 15 | 40 | 26 | 5 | 18 | 97 | 64 | 49 | 13·0 | ... | ... | 66 | ... | ·646 | ... | 1·6 | ... | 23 | ... | ... | 31·97 | ... | ... | 4·53 | Jamnagar. |
| 21 | 57 | 27 | 7 | 1 | 22 | 93 | 77 | 60 | 12·0 | ... | ... | 77 | ... | ·739 | ... | 3·3 | ... | 22 | ... | ... | 27·04 | ... | ... | 7·64 | Dwarka. |
| 32 | 38 | 45 | 21 | 7 | 5 | 80 | 90 | 47 | 10·1 | 9·1 | +1·0 | 63 | —4 | ·578 | —·046 | 3·2 | +0·2 | 35 | 30·90 | +4·10 | 28·49 | 28·13 | +0·36 | 2·95 | Rajkot. |
| 53 | 95 | 50 | 6 | 2 | 6 | 36 | 89 | 28 | 9·7 | 8·4 | +1·3 | 73 | +3 | ·665 | —·001 | 3·7 | —0·2 | 25 | 29·20 | —4·20 | 22·03 | 18·24 | +3·79 | 3·54 | Veraval. |
| 8 | 24 | 14 | 3 | 2 | 3 | 113 | 52 | 146 | 7·1 | 10·1 | —3·0 | 63 | —6 | ·591 | —·068 | 3·6 | +0·3 | 45 | 34·70 | +10·30 | 27·79 | 19·76 | +8·03 | 3·19 | Bhavnagar Para. |
| 18 | 42 | 33 | 28 | 10 | 49 | 65 | 52 | 27 | 5·4 | 7·6 | —2·2 | 70 | —1 | ·657 | —·023? | 3·4 | 0 | 49 | 47·40 | +1·60 | 53·26 | 44·03 | +9·23 | 5·12 | Surat. (*a*) |
| 29 | 33 | 87 | 15 | 10 | 26 | 76 | 27 | 61 | 5·3 | 5·0 | +0·3 | 61 | +1 | ·568 | —·014 | 3·3 | —0·3 | 41 | 37·20 | +3·80 | 29·83 | 33·24 | —3·41 | 3·36 | Ahmedabad. (*a*) |
| 10 | 34 | 73 | 75 | 25 | 17 | 30 | 71 | 30 | 9·7 | 11·8 | —2·1 | 81 | +3 | ·771 | 0 | 4·1 | —0·1 | 75 | 75·60 | +0·40 | 71·22 | 75·21 | —3·99 | 4·73 | Bombay. |
| 86 | 63 | 35 | 70 | 12 | 12 | 30 | 31 | 26 | 9·5 | 8·5 | +1·0 | 74 | +2 | ·719 | —·008 | 2·9 | —1·0 | 89 | 93·80 | —4·80 | 99·30 | 107·35 | —8·05 | 7·50 | Ratnagiri. |
| 7 | 42 | 58 | 118 | 12 | 23 | 37 | 35 | 33 | z 6·5 | 6·5 | z +0·3 | 84 | +6 | ·798 | +·020 | 5·1 | +0·9 | 102 | ... | ... | 92·65 | 98·43 | —5·78 | 5·70 | Goa. |
| 74 | 38 | 43 | 65 | 16 | 20 | 8 | 59 | 42 | 8·2 | 9·2 | —1·0 | 86 | +3 | ·832 | +·017 | 4·9 | +1·1 | 98 | ... | ... | 77·95 | 93·43 | —15·48 | 4·75 | Mormugao. |
| 199 | 58 | 44 | ... | 2 | 26 | 27 | ... | 8 | 4·1 | 4·2 | —0·1 | 85 | +2 | ·763 | +·019 | 4·1 | +0·3 | 91 | 105·50 | —14·50 | 110·22 | 123·78 | —13·56 | 6·00 | Karwar. (*a*) |
| 366 | ... | 2 | 2 | ... | 4 | 20 | 52 | 19 | 7·8 | 8·9 | —1·1 | 54 | —9 | ·481 | —·084 | 2·3 | —1·2 | 41 | 34·90 | +6·10 | 21·81 | 24·08 | —2·27 | 2·86 | Malegaon. |
| 37 | 24 | 4 | 6 | 8 | 18 | 31 | 78 | 159 | 8·5 | 11·4 | —2·9 | 53 | —14 | ·454 | —·110 | 2·4 | —0·9 | 31 | 39·60 | —8·60 | 22·56 | 22·42 | +0·14 | 4·92 | Ahmednagar. |
| 64 | 25 | 10 | 16 | 10 | 1 | 12 | 148 | 79 | 9·7 | 10·5 | —0·8 | 65 | +2 | ·519 | +·012 | 3·9 | 0 | 48 | 49·60 | —1·60 | 24·95 | 27·89 | —2·94 | 3·50 | Poona. |
| 32 | 14 | 34 | 28 | 43 | 6 | 52 | 34 | 115 | 9·4 | 9·8 | —0·4 | 58 | +3 | ·517 | +·014 | 3·5 | —0·5 | 41 | 42·00 | —1·00 | 37·19 | 30·98 | +6·21 | 3·53 | Sholapur. (*g*) |
| 19 | 35 | 19 | 23 | 20 | 29 | 46 | 119 | 54 | 8·4 | 6·4 | +2·0 | 60 | —10 | ·529 | —·075? | 2·8 | —1·1 | 33 | 42·40 | —9·40 | 18·76 | 24·58 | —5·82 | 2·06 | Bijapur. (*a*) |
| 52 | 28 | 34 | 35 | 19 | 11 | 55 | 99 | 32 | 13·3 | 15·1 | —1·8 | 69 | —1 | ·534 | —·003 | 3·9 | —0·4 | 72 | 83·30 | —11·30 | 46·03 | 50·13 | —4·10 | 3·05 | Belgaum. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **X—Central India.** |
| 87 | 94 | 54 | 14 | 4 | 5 | 58 | 80 | 19 | 7·0 | 8·7 | —1·7 | 61 | +3 | ·498 | —·004 | 2·8 | +0·2 | 33 | 37·40 | —4·40 | 23·72 | 30·08 | —6·36 | 6·22 | Neemuch. |
| 91 | 8 | 43 | 26 | 13 | 7 | 47 | 94 | 36 | 4·6 | 4·1 | +0·5 | 61 | —2 | ·508 | —·015 | 3·8 | +0·4 | 49 | 45·30 | +3·70 | 25·81 | 33·64 | —7·83 | 2·91 | Indore. |
| 81 | 10 | 10 | 40 | 12 | 29 | 55 | 116 | 11 | 2·5 | 2·6 | —0·1 | 68 | +2 | ·559 | +·014 | 3·8 | +0·6 | 52 | 50·70 | +1·30 | 41·16 | 44·96 | —3·80 | 5·69 | Nowgong. (*a*). |
| 64 | 5 | 8 | 38 | 18 | 7 | 42 | 115 | 68 | 3·1 | 6·0 | —2·9 | 64 | +3 | ·548 | +·036 | 5·6 | +2·7 | 61 | 54·60 | +6·40 | 35·61 | 45·88 | —10·27 | 1·75 | Sutna. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **XI—Central Provinces.** |
| 2 | 29 | 18 | 37 | 44 | 25 | 30 | 101 | 79 | 6·3 | 7·8 | —1·5 | 53 | ... | ·456 | ... | 3·6 | ... | 54 | ... | ... | 38·19 | 36·20 | +1·99 | 6·02 | Buldana. |
| 52 | 10 | 33 | 29 | 27 | 7 | 38 | 95 | 74 | 5·9 | 6·0 | —0·1 | 55 | —3 | ·507 | —·006 | 4·3 | +0·9 | 42 | 45·10 | —3·10 | 31·31 | 34·16 | —2·85 | 3·34 | Akola. |
| 32 | 8 | 59 | 60 | 21 | 5 | 25 | 95 | 60 | (*z*) 7·1 | 5·7 | (*z*) +1·4 | 58 | —1 | ·532 | —·005 | 3·7 | +0·2 | 49 | 46·80 | +2·20 | 35·11 | 34·63 | +0·48 | 3·62 | Amraoti. |

* = Uncorrected for scale error.
(*z*) = Mean of 11 months.
(*y*) = ,, ,, 10 ,,
(*b*) = Wind observations for 363 days.
(*a*) = ,, ,, ,, 364 ,,
(*h*) = ,, ,, ,, 357 ,,
(*g*) = ,, ,, ,, 358 ,,
‡ = ,, ,, ,, 242 ,, and normal rainfall for whole year.
(*u*) = Mean of 6 month

# TABLE

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

| Number of sub-division. | Station. | Elevation 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 recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Temperature of air. Mean of 8 hrs. temperature of year. | Mean minimum 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 temperature. | 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 |
| | **XI.—Central Provinces—** *concld.* | | | | | | | | | | | | | | | | | | | | |
| 24 | Khandwa | 1,044 | 28·816 | —·007 | 29·838 | 29·112 | 28·428 | ·684 | ·213 | 72·8 | 92·0 | +0·3 | 67·6 | +0·7 | 79·9 | +0·5 | 24·4 | 112·2 | 42·1 | 70·1 | 39·2 |
| | Hoshangabad | 1,006 | 28·857 | —·003 | 29·843 | 29·175 | 28·427 | ·748 | ·230 | 73·1 | 90·2 | —0·2 | 66·3 | —0·7 | 78·3 | —0·5 | 23·9 | 111·1 | 44·4 | 66·7 | 37·3 |
| | Saugor | 1,80[illegible] | 28·035 | —·007 | 29·818 | 28·342 | 27·646 | ·696 | ·216 | 73·2 | 86·9 | —1·1 | 66·7 | +0·5 | 76·8 | —0·3 | 20·3 | 108·6 | 44·0 | 64·6 | 34·9 |
| | Jubbulpore | 1,327 | 28·515 | —·002 | 29·827 | 28·829 | 28·074 | ·755 | ·228 | 70·7 | 87·9 | —0·6 | 64·7 | +0·3 | 76·3 | —0·1 | 23·1 | 105·5 | 40·8 | 67·7 | 36·6 |
| | Seoni | 2,033 | 27·833 | +·004 | 29·837 | 28·108 | 27·429 | ·679 | ·207 | 72·5 | 86·8 | —1·0 | (z) 60·8 | (y) —2·3 | (x) 73·0 | (y) —1·3 | (z) 24·6 | 106·5 | 41·4 | 65·1 | 36·9 |
| | Nagpur | 1,017 | 28·837 | +·001 | 29·823 | 29·125 | 28·418 | ·707 | ·214 | 75·1 | 91·5 | —0·6 | 68·4 | —0·5 | 80·0 | —0·5 | 23·1 | 111·1 | 49·6 | 61·5 | 35·5 |
| 25 | Pendra | 2,123? | 27·819 | ... | 29·822 | 28·119 | 27·387 | ·732 | ·225 | 72·2 | 84·8 | ... | 64·9 | ... | 74·9 | ... | 19·9 | 105·3 | 42·2 | 63·1 | 31·6 |
| | Raipur | 970 | 28·872 | —·003 | 29·811 | 29·191 | 28·423 | ·768 | ·230 | 73·7 | 89·6 | —0·9 | 69·4 | +0·2 | 79·5 | —0·4 | 20·2 | 110·2 | 51·6 | 58·6 | 32·2 |
| | Chanda | 63[illegible] | 29·222 | —·007 | 29·811 | 29·514 | 28·809 | ·705 | ·201 | 76·7 | 92·1 | —0·7 | 68·9 | +0·3 | 80·5 | —0·2 | 23·3 | 111·5 | 48·0 | 63·5 | 36·6 |
| | Jagdalpur (r) | ... | 28·166 | ... | 29·976 | 28·323 | 28·032 | ·291 | ·157 | 65·1 | 80·4 | ... | 59·7 | ... | 70·1 | ... | 20·7 | 85·7 | 50·1 | 35·6 | 30·8 |
| | **XII.—Hyderabad.** | | | | | | | | | | | | | | | | | | | | |
| 28 | Aurangabad | 1,905 | 27·905 | —·025 | 29·862 | 28·236 | 27·642 | ·594 | ·175 | 75·1 | 89·8 | —1·2 | 65·6 | 0 | 77·7 | —0·6 | 24·2 | 109·2 | 49·2 | 60·0 | 35·9 |
| | Nizamabad (x) | 1,248 | 28·666 | (w) —·003 | 29·879 | 28·885 | 28·385 | ·500 | ·167 | 76·7 | 93·7 | +1·9 | 66·7 | +0·3 | 80·2 | +1·1 | 27·0 | 110·9 | 47·7 | 63·2 | 39·3 |
| | Bidar | 2,165 | 27·728 | ... | 29·840 | 27·917 | 27·442 | ·475 | ·174 | 76·4 | 88·9 | ... | 65·1 | ... | 77·1 | ... | 23·8 | 105·4 | 52·4 | 53·0 | 33·7 |
| 29 | Gulbarga | 1,503 | 28·384 | —·012 | 29·848 | 28·628 | 28·090 | ·538 | ·185 | 76·1 | 92·5 | +0·1 | 69·6 | +0·8 | 81·0 | +0·5 | 22·9 | 108·5 | 54·8 | 53·7 | 34·7 |
| | Raichur | *1,311* | (y) 28·546 | (y) —·021 | (y) 29·813 | 28·789 | 28·279 | ·510 | (y) ·185 | 77·6 | 92·3 | +0·3 | 71·8 | +0·2 | 82·1 | +0·2 | 20·5 | 107·1 | 55·6 | 51·5 | 31·6 |
| | Hyderabad (Dn.) | 1,690 | 28·191 | —·007 | 29·845 | 28·441 | 27·880 | ·561 | ·179 | 74·6 | 90·6 | 0 | 69·5 | +1·2 | 80·1 | +0·6 | 21·1 | 106·8 | 54·2 | 52·6 | 31·9 |
| | Hanumkonda | 871 | 28·996 | —·008 | 29·821 | 29·277 | 28·629 | ·643 | ·199 | 77·9 | 91·8 | —0·1 | 72·1 | +0·1 | 81·9 | 0 | 19·7 | 110·5 | 57·2 | 53·3 | 30·3 |
| | **XIII.—Mysore.** | | | | | | | | | | | | | | | | | | | | |
| 30 | Chitaldroog | 2,405 | 27·517 | —·007 | 29·866 | 27·697 | 27·2[illegible]7 | ·440 | ·166 | 73·5 | 87·0 | +0·5 | 67·3 | +0·1 | 77·2 | +0·3 | 19·8 | 100·6 | 56·4 | 44·2 | 29·1 |
| | Hassan | 3,149 | 26·824 | +·003 | 29·902 | 26·071 | 26·598 | ·373 | ·161 | 69·6 | 83·1 | +0·4 | 63·0 | +0·8 | 73·1 | +0·6 | 20·1 | 95·2 | 52·2 | 43·0 | 28·8 |
| | Bangalore | 3,021 | 26·932 | —·016 | 29·883 | 27·099 | 26·708 | ·391 | ·164 | 70·3 | 85·2 | +1·0 | 64·5 | +0·4 | 74·9 | +0·7 | 20·8 | 95·8 | 53·8 | 42·0 | 29·4 |
| | Mysore | 2,518 | 27·429 | —·009 | 29·899 | 27·582 | 27·211 | ·371 | ·165 | 71·4 | 85·4 | —0·9 | 65·7 | 0 | 75·5 | —0·5 | 19·7 | 96·5 | 56·0 | 40·5 | 28·1 |
| | **XIV.—Madras.** | | | | | | | | | | | | | | | | | | | | |
| 31 | Mangalore | 65 | 29·852 | —·019 | 29·850 | 29·992 | 29·597 | ·395 | ·177 | 79·1 | 86·1 | —1·3 | 74·0 | +0·1 | 80·1 | —0·6 | 12·1 | 96·7 | 64·9 | 31·8 | 20·0 |
| | Calicut | 27 | 29·898 | —·013 | 29·855 | 30·023 | 29·703 | ·320 | ·159 | 78·2 | 85·7 | —1·3 | 74·7 | +0·6 | 80·2 | —0·3 | 10·9 | 93·3 | 68·1 | 25·2 | 16·7 |
| | Cochin | 9 | 29·929 | —·002 | 29·866 | 30·033 | 29·775 | ·258 | ·140 | 78·9 | 87·6 | +0·1 | 74·8 | 0 | 81·3 | +0·1 | 12·8 | 94·7 | 68·7 | 26·0 | 18·2 |
| | Trivandrum | 198 | 29·727 | 0 | 29·858 | 29·834 | 29·578 | ·256 | ·143 | 77·8 | 83·8 | —0·2 | 74·7 | +0·9 | 79·4 | +0·3 | 9·1 | 92·0 | 66·5 | 25·5 | 15·2 |
| 2 | Tinnevelly | 168 | 29·753 | 0 | 29·851 | 29·928 | 29·550 | ·378 | ·158 | 82·1 | 94·4 | +0·2 | 76·0 | —0·6 | 85·2 | —0·2 | 18·4 | 105·2 | 66·9 | 38·3 | 27·3 |
| | Pambau | 37 | 29·871 | —·007 | 29·836 | 30·038 | 29·668 | ·370 | ·166 | 81·1 | 87·8 | +0·5 | 76·8 | —0·8 | 82·3 | —0·1 | 11·0 | 94·7 | 70·5 | 24·2 | 17·3 |
| | Madura | 447 | 29·471 | +·005 | 29·856 | 29·645 | 29·258 | ·387 | ·164 | 80·2 | 92·9 | —1·1 | 73·2 | —0·6 | 83·1 | —0·9 | 19·6 | 104·4 | 63·1 | 41·3 | 28·4 |
| | Periyakulam (s) | *944* | 29·016 | ... | 29·913 | 29·139 | 28·875 | ·264 | ·167 | 74·9 | 91·9 | ... | 67·7 | ... | 79·9 | ... | 24·1 | 99·5 | 57·1 | 42·4 | 35·1 |
| | Pudukkottai | 318 | 29·595 | ... | 29·847 | 29·794 | 29·380 | ·414 | ·182 | 79·5 | 93·4 | ... | 74·2 | ... | 83·8 | ... | 19·2 | 104·6 | 63·9 | 40·7 | 28·9 |
| | Negapatam | 31 | 29·866 | —·014 | 29·826 | 30·053 | 29·638 | ·415 | ·168 | 81·7 | 91·3 | +1·5 | 76·8 | +0·9 | 84·1 | +1·2 | 14·5 | 105·4 | 67·5 | 37·9 | 23·8 |
| | Trichinopoly | 255 | 29·659 | —·006 | 29·849 | 29·842 | 29·430 | ·412 | ·170 | 80·7 | 93·7 | —0·7 | 74·2 | +0·1 | 83·9 | —0·2 | 19·5 | 106·1 | 62·3 | 43·8 | 28·9 |
| | Coimbatore | 1,348 | 28·666 | —·009 | 29·875 | 28·731 | 28·353 | ·378 | ·167 | 74·8 | 89·5 | —0·7 | 69·8 | +0·2 | 79·7 | —0·3 | 19·7 | 99·9 | 60·3 | 39·6 | 28·5 |
| | Salem | 940 | 28·999 | —·007 | 29·888 | 29·174 | 28·770 | ·404 | ·166 | 78·1 | 92·7 | —0·3 | 71·8 | +1·1 | 82·2 | +0·4 | 20·9 | 103·0 | 60·4 | 42·6 | 31·0 |
| | Cuddalore | 37 | 29·862 | —·007 | 29·829 | 30·065 | 29·611 | ·454 | ·177 | 80·0 | 91·0 | +0·5 | 74·7 | +0·6 | 82·9 | +0·5 | 16·2 | 105·1 | 63·7 | 41·4 | 25·7 |
| | Vellore | 707 | 29·199 | ... | 29·854 | 29·407 | 28·932 | ·475 | ·181 | 77·2 | 91·5 | ... | 71·7 | ... | 81·6 | ... | 19·8 | 103·2 | 58·0 | 45·2 | 29·9 |

*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.

w Mean of 8 months.
x Mean of 11 months.
y Do. 10 months.
r Do. 3 do.
z Do. 9 do. except rainfall.
s Mean of 4 months except normal rainfall.

## B—*contd.*

### *244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | **XI.—Central Provinces—** *contd.* |
| 70 | 16 | 23 | 20 | 30 | 11 | 26 | 84 | 85 | 7·3 | 6·1 | +1·2 | 58 | —1 | ·495 | —·006 | 3·4 | +0·4 | 39 | 42·30 | —3·30 | 19·04 | 31·35 | —12·31 | 1·48 | Khandwa. |
| 138 | ... | 37 | 57 | 5 | 3 | 35 | 83 | 7 | 3·7 | 3·2 | +0·5 | 63 | —3 | ·531 | —·020 | 4·0 | +0·5 | 44 | 56·00 | —12·00 | 39·36 | 52·08 | —12·72 | 5·45 | Hoshangabad. |
| 39 | 9 | 32 | 40 | 41 | 24 | 67 | 91 | 22 | 6·4 | 4·4 | +2·0 | 56 | —3 | ·465 | —·030 | ·2 | +1·2 | 55 | 58·10 | —3·10 | 40·11 | 48·57 | —8·46 | 4·85 | Saugor. |
| 65 | 21 | 16 | 10 | 63 | 65 | 43 | 60 | 22 | 2·6 (z) | 3·1 | —0·5 (z) | 67 | 0 | ·522 | —·013 | 3·5 | +0·1 | 59 | 63·90 | —4·90 | 42·41 | 59·11 | —16·70 | 3·43 | Jubbulpore. |
| 50 | 58 | 49 | 22 | 14 | 30 | 50 | 50 | 42 | 5·3 | 3·8 | +1·5 | 61 | —3 | ·493 | —·037 | 3·9 | +0·4 | 77 | 71·40 | +5·60 | 49·90 | 55·27 | —5·37 | 2·86 | Seoni. |
| 46 | 82 | 35 | 28 | 18 | 17 | 33 | 77 | 29 | 4·0 | 5·6 | —1·6 | 60 | —1 | ·537 | —·016 | 3·5 | —0·4 | 78 | 58·60 | +19·40 | 57·29 | 49·49 | +7·80 | 3·33 | Nagpur. |
| 126 | 48 | 15 | 5 | 17 | 43 | 31 | 16 | 62 | 4·8 | ... | ... | 61 | ... | ·501 | ... | 3·5 | ... | 87 | ... | ... | 43·95 | ... | ... | 1·92 | Pendra. (*b*) |
| 117 | 16 | 24 | 26 | 12 | 15 | 104 | 30 | 21 | 6·1 | 5·9 | +0·2 | 65 | +2 | ·556 | —·009 | 3·9 | —0·2 | 67 | 62·50 | +4·50 | 47·79 | 50·65 | —2·86 | 7·30 | Raipur. |
| 124 | 15 | 10 | 10 | 23 | 32 | 29 | 67 | 49 | 4·1 | 3·6 | +0·5 | 65 | 0 | ·605 | +·016 | 3·9 | +0·3 | 64 | 61·70 | +2·30 | 44·94 | 55·75 | —10·81 | 3·40 | Chanda. (*a*) |
| 21 | 5 | 3 | 4 | 2 | 1 | ... | 2 | 6 | ... | ... | ... | 83 | ... | ·513 | ... | 2·8 | ... | 1 | ... | ... | 0·66 | ... | ... | 0·55 | Jagdalpur. II |
| | | | | | | | | | | | | | | | | | | | | | | | | | **XII-Hyderaba** |
| 62 | 23 | 31 | 50 | 30 | 7 | 22 | 74 | 65 | 11·1 (v) | ... | ... | 57 | +2 | ·493 | ... | 3·3 | ... | 51 | 47·40 | +3·60 | 43·08 | 27·82 | +15·26 | 4·30 | Aurangabad. (*a*) |
| 132 | 10 | 9 | 9 | 24 | 27 | 40 | 22 | 17 | 4·0 | ... | ... | 54 | —13 | ·492 | ... | 2·0 | ... | 50 | 58·30 | —8·30 | 23·43 | 41·07 | —17·64 | 2·43 | Nizamabad. (III) |
| 53 | 10 | 27 | 10 | 39 | 26 | 103 | 56 | 41 | 6·3 | ... | ... | 60 | ... | ·513 | ... | 2·1 | ... | 48 | 59·10 | —11·10 | 34·24 | 39·71 | —5·47 | 3·68 | Bidar. |
| 46 | 25 | 42 | 55 | 22 | 32 | 37 | 62 | 43 | 8·9 | 10·2 | —1·3 | 63 | —1 | ·571 | 0 | 3·2 | —0·6 | 47 | 48·70 | —1·70 | 31·05 | 31·76 | —0·71 | 3·25 | Gulbarga. (*a*) |
| 11 | 11 | 43 | 22 | 82 | 11 | 70 | 46 | 69 | 7·8 | 9·6 | —1·8 | 61 | —4 | ·581 | —·024 | 4·0 | +0·3 | 40 | 44·20 | —4·20 | 25·44 | 30·74 | —5·30 | 1·83 | Raichur. |
| 235 | ... | 6 | 3 | 10 | ... | 3 | 82 | 26 | 3·9 | 5·5 | —1·6 | 65 | —5 | ·553 | —0·9 | 4·4 | +0·8 | 46 | ... | ... | 29·77 | 31·56 | —1·79 | 2·50 | Hyderabad (Deccan). |
| 62 | 23 | 2 | 6 | 93 | 44 | 37 | 32 | 66 | 7·0 | ... | ... | 64 | —3 | ·612 | ... | 4·6 | ... | 54 | 51·40 | +2·60 | 28·81 | 32·86 | —4·05 | 2·71 | Hanumkonda. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **XIII.—Mysor** |
| 65 | ... | 6 | 37 | 86 | 4 | 69 | 107 | 41 | 6·6 | 8·1 | —1·5 | 68 | —2 | ·502 | —·014 | 4·4 | —0·7 | 51 | 48·50 | +2·50 | 25·37 | 26·33 | —0·96 | 2·90 | Chitaldroog. |
| 69 | 8 | 18 | 49 | 24 | 2 | 44 | 96 | 55 | 6·8 | 3·6 | +3·2 | 80 | +4 | ·577 | +·003 | 5·0 | —0·6 | 73 | 68·20 | +4·80 | 42·22 | 35·09 | +7·13 | 2·99 | Hassan. |
| 6 | 7 | 18 | 79 | 28 | 30 | 78 | 105 | 14 | 7·9 | 6·3 | +1·6 | 77 | —1 | ·578 | —·007 | 5·1 | +0·1 | 55 | 58·60 | —3·60 | 30·62 | 35·06 | +4·56 | 6·06 | Bangalore. |
| 46 | 8 | 39 | 36 | 11 | 14 | 103 | 96 | 12 | 8·3 | 10·0 | —1·7 | 78 | +2 | ·601 | 0 | 6·3 | +1·0 | 67 | 55·99 | +11·10 | 39·09 | 30·91 | +8·18 | 3·07 | Mysore. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **XIV.—Madra** |
| 59 | 30 | 74 | 120 | 12 | 7 | 15 | 22 | 26 | *5·0 | 2·9 | +2·1 | 81 | 0 | ·815 | +·026 | 4·8 | —0·3 | 110 | 117·90 | —7·90 | 145·16 | 123·94 | +21·22 | 14·21 | Mangalore. |
| 100 | 22 | 46 | 57 | 36 | 4 | 12 | 23 | 65 | *6·0 | 8·6 | —2·6 | 86 | +3 | ·830 | +·028 | 5·7 | +0·9 | 113 | 116·10 | —3·10 | 130·74 | 115·11 | +15·63 | 9·81 | Calicut. |
| 44 | 10 | 124 | 117 | 29 | 5 | 7 | 16 | 13 | *6·5 | 5·5 | +1·0 | 79 | —2 | ·787 | —·025 | 4·9 | +0·2 | 124 | 130·60 | —6·60 | 97·93 | 115·63 | —17·70 | 3·55 | Cochin. |
| 96 | 62 | 46 | 13 | 1 | 1 | 1 | 15 | 130 | *5·3 | 6·1 | —0·8 | 83 | +1 | ·794 | 0 | 5·7 | +0·2 | 96 | 92·90 | +3·10 | 75·37 | 62·78 | +12·59 | 4·85 | Trivandrum. |
| 48 | 73 | 28 | 3 | 2 | 5 | 27 | 89 | 90 | 5·5 | 6·0 | —0·5 | 67 | —2 | ·733 | —·009 | 4·9 | +0·2 | 47 | 41·40 | +5·60 | 30·42 | 28·63 | +1·79 | 2·78 | Tinnevelly. |
| 51 | 40 | 42 | 37 | 30 | 40 | 57 | 48 | 20 | 8·3 | 10·3 | —2·0 | 81 | +1 | ·860 | ... | 3·9 | ... | 38 | 42·70 | —4·70 | 34·41 | 38·97 | —4·56 | 4·09 | Pamban. |
| 31 | 68 | 46 | 19 | 1 | 2 | 11 | 83 | 104 | 6·3 | 4·2 | +2·1 | 72 | +2 | ·739 | +·003 | 6·1 | +1·9 | 66 | 50·20 | +15·80 | 52·29 | 33·30 | +18·99 | 5·07 | Madura. |
| 114 | .. | 1 | ... | 3 | 2 | ... | ... | ... | 2·2 | ... | .. | 68 | ... | ·589 | ... | 1·5 | ... | 22 | 48·30 | +35·00 | 13·77 | 28·86 | —15·09 | 2·61 | Periyakulam†. |
| 29 | 70 | 68 | 5 | 5 | 2 | 28 | 40 | 118 | 8·1 | ... | ... | 75 | ... | ·761 | ... | 5·9 | ... | 58 | ... | ... | 40·15 | ... | ... | 2·48 | Pudukkottai. |
| 7 | 10 | 55 | 6 | 12 | 12 | 76 | 106 | 81 | 8·6 | 6·8 | +1·8 | 72 | —4 | ·786 | —·022 | 4·7 | —0·7 | 43 | 58·20 | —15·20 | 26·94 | 55·56 | —28·62 | 2·55 | Negapatam. |
| 73 | 36 | 28 | 14 | 9 | 3 | 53 | 127 | 22 | *4·6 | 5·8 | —1·2 | 70 | —2 | ·725 | —·006 | 4·3 | —0·6 | 46 | 44·60 | +1·40 | 38·64 | 32·54 | +6·10 | 4·52 | Trichinopoly |
| 124 | 5 | 87 | 1 | 5 | 14 | 119 | 5 | 5 | 5·2 | 4·2 | +1·0 | 81 | —2 | ·709 | —·024 | 4·5 | —0·2 | 41 | 43·80 | —2·80 | 23·79 | 20·90 | +2·89 | 2·25 | Coimbatore. |
| 61 | 9 | 22 | 73 | 9 | 25 | 45 | 109 | 12 | 4·4 | 4·2 | +0·2 | 80 | +4 | ·780 | +·051 | 5·3 | +0·9 | | 59·50 | +11·50 | 53·16 | 40·50 | +12·66 | 4·48 | Salem. |
| 57 | 45 | 7 | 3 | 3 | 50 | 79 | 59 | 62 | 6·8 | 2·5 | +4·3 | 78 | —5 | ·800 | —·058 | 4·9 | —0·3 | 54 | 56·30 | —2·30 | 36·45 | 52·58 | —16·13 | 3·54 | Cuddalore. |
| 213 | 10 | 8 | 33 | 61 | 3 | 7 | 7 | 22 | 3·0 | ... | ... | 77 | ... | ·717 | ... | 4·0 | ... | 56 | 54·90 | +1·10 | 65·37 | 38·47 | +26·90 | 6·36 | Vellore (*a*). |

*Uncorrected for scale error.
(*z*) = Mean of 11 months.
†Mean of 4 months and normal rainfall for whole year.
(*v*) Mean of 7 months.
(*a*) = Wind observations for 364 days.
(*b*) = " " " 363 "
II = " " " 44 "
III = " " " 290 "

# TABLE

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

| Number of sub-division. | Station. | Elevation of bar. cistern above sea-level, in feet. | Pressure, 8 hrs., in inches. | | | | | | | Temperature of air. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 8 hrs. pressure reduced to 32°. | Departure from normal. | Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat. | Highest pressure recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Mean of 8 hrs. temperature 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 |
| | **Madras**—*concld.* | | | | | | | | | | | | | | | | | | | | |
| | Madras | 22 | 29·874 | —·014 | 29·827 | 30·084 | 29·594 | ·490 | ·190 | 80·6 | 90·9 | 0 | 74·7 | 0 | 82·9 | 0 | 16·2 | 106·0 | 64·5 | 41·5 | 27·3 |
| 33 | Cuddapah | 433 | 29·464 | —·007 | 29·838 | 29·895 | 29·174 | ·521 | ·179 | 80·3 | 95·3 | —0·2 | 73·7 | —0·7 | 84·5 | —0·5 | 21·6 | 109·2 | 56·6 | 52·6 | 33·4 |
| | Bellary | 1,475 | 28·420 | —·007 | 29·853 | 29·641 | 28·141 | ·500 | ·175 | 76·5 | 93·9 | +0·9 | 71·3 | +0·7 | 83·7 | +0·8 | 22·6 | 111·0 | 55·8 | 55·2 | 33·0 |
| | Kurnool | 923 | 28·950 | —·014 | 29·837 | 29·207 | 28·666 | ·541 | ·181 | 76·6 | 94·1 | +0·4 | 71·3 | +0·7 | 82·7 | +0·5 | 22·9 | 109·7 | 52·6 | 57·1 | 34·4 |
| 34 | Nellore | 66 | 29·812 | —·003 | 29·815 | 30·062 | 29·511 | ·551 | ·191 | 80·8 | 93·0 | —1·3 | 75·5 | +0·4 | 84·3 | —0·4 | 17·5 | 112·3 | 64·6 | 47·7 | 28·6 |
| | Masulipatam | 15 | 29·831 | +·003 | 29·831 | 30·142 | 29·523 | ·619 | ·201 | 80·6 | 90·7 | +0·2 | 74·9 | +0·5 | 82·8 | +0·3 | 15·8 | 109·8 | 63·1 | 46·7 | 26·8 |
| | Cocanada | 26 | 29·852 | —·005 | 29·814 | 30·131 | 29·474 | ·657 | ·216 | 79·2 | 88·6 | —0·8 | 75·0 | +0·1 | 81·8 | —0·3 | 13·6 | 106·2 | 61·0 | 45·2 | 24·3 |
| | Waltair (Vizagapatam). | *226* | 29·639 | —·005 | 29·808 | 29·937 | 29·208 | ·729 | ·231 | 79·6 | 86·0 | ... | 75·5 | ... | 80·7 | ... | 10·5 | 103·1 | 63·9 | 39·2 | 20·2 |
| | Calingapatam | 19 | 29·847 | ... | 29·806 | 30·164 | 29·398 | ·766 | ·242 | ... (z) | ... (z) | ... (z) | ... (z) | ... (z) | ... (z) | ... (z) | ... (z) | ... | ... | ... | ... (z) |
| | Gopalpur | 72 | 29·782 | +·003 | 29·797 | 30·120 | 29·327 | ·802 | ·236 | 77·6 | 86·5 | +0·3 | 73·8 | —0·1 | 80·2 | +0·1 | 12·7 | 100·2 | 56·0 | 44·2 | 22·7 |
| | **Bay Islands.** | | | | | | | | | | | | | | | | | | | | |
| | P. V Fraser | 8 | 29·858 | ... | 29·734 | 30·182 | 29·410 | ·772 | ·265 | 80·5 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Upper Gasper. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Lower " | ... | ... | .. | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Car Nicobar | 25 | 29·856 | ... | 29·803 | 29·972 | 29·764 | ·208 | ·110 | 81·2 | 85·9 | ... | 76·5 | ... | 81·3 | ... | 9·4 | 90·8 | 72·3 | 18·5 | 14·9 |
| | Port Blair | 58 | 29·840 (y) | —·012 | 29·828 (y) | 30·023 | 29·621 | ·402 | ·166 (y) | 79·6 | 85·7 | —1·6 | 76·3 | —0·7 | 81·0 | —1·2 | 9·4 | 92·2 | 70·0 | 22·2 | 16·0 |
| | Slipper Island | 90 | 29·809 | ... | 29·833 | 30·006 | 29·575 | ·431 | ·173 | 80·7 | 85·7 | ... | 77·0 | ... | 81·4 | ... | 8·8 | 92·6 | 70·6 | 22·0 | 15·9 |
| | **Kashmir.** | | | | | | | | | | | | | | | | | | | | |
| 14 | Srinagar | 5,204 | 24·882 | —·006 | 24·853 | 25·188 | 24·519 | ·669 | ·315 | 48·7 | 64·6 | —1·3 | 44·3 | +0·3 | 54·5 | —0·5 | 20·4 | 93·6 | 10·1 | 83·5 | 36·2 |
| | Gulmarg (s) | *8,569* | 21·803 | —·010 | 21·771 | 21·969 | 21·641 | ·328 | ·228 | 58·2 | 66·4 | —0·1 | 47·3 | +0·6 | 56·9 | +0·3 | 19·1 | 78·2 | 35·3 | 42·9 | 32·7 |
| | Sonemarg | *8,764* | 21·825 | ... | 21·793 | 22·068 | 21·549 | ·519 | ·278 | 34·7 | 52·8 | ... | 29·5 | ... | 41·2 | ... | 23·3 | 78·9 | —9·4 | 88·3 | 45·0 |
| | Dras | *10,059* | 20·778 | —·023 | 20·746 | 21·062 | 20·434 | ·628 | ·321 | 29·3 | 49·2 | —2·0 | 19·0 | —2·6 | 34·2 | —2·3 | 30·2 | 86·9 | —45·0 | 131·9 | 56·3 |
| | Leh | *11,603* | 19·694 | —·009 | 19·662 | 19·979 | 19·345 | ·634 | ·305 | 36·8 | 55·3 | —0·1 | 29·4 | —0·4 | 42·4 | —0·3 | 26·7 | 82·6 | —12·0 | 94·6 | 42·3 |
| | Skardu | *7,605* | 22·869 (r) | —·011 | 22·839 (r) | 23·246 | 22·526 | ·720 | ·378 (r) | 45·3 | 62·1 | —0·1 | 39·8 | —0·6 | 51·0 | —0·4 | 22·3 | 98·4 | —8·4 | 104·8 | 41·9 |
| | Minimarg (s) | *9,359* | 21·066 | ... | 21·034 | 21·281 | 20·795 | ·486 | ·426 | 19·1 | 35·9 | ... | 11·5 (r) | ... | 23·7 (r) | ... | 24·4 (r) | 59·3 | —7·0 | 66·3 | 54·3 (r) |
| | Astor (s) | 7,955 | 22·540 | ... | 22·510 | 22·822 | 22·558 | ·564 | ·440 | 23·7 | 40·3 | ... | 19·7 | ... | 29·6 | ... | 19·7 | 65·9 | —10·0 | 75·9 | 45·1 |
| | Gilgit | 4,890 | 25·119 | ... | 25·092 | 25·524 | 24·679 | ·845 | ·403 | 58·1 | 72·5 | —0·2 | 51·6 | —1·7 | 62·1 | —1·0 | 21·0 | 107·2 | 25·2 | 82·0 | 39·3 |
| | **Baluchistan.** | | | | | | | | | | | | | | | | | | | | |
| 16 | Quetta | 5,502 | 24·697 | —·014 | 24·567 | 24·873 | 24·296 | ·577 | ·244 | 56·8 | 74·0 | +0·5 | 43·9 | —0·6 | 58·9 | 0 | 30·1 | 100·1 | 16·5 | 83·6 | 48·6 |
| | Chaman | 4,311 | 25·670 | —·002 | 25·632 | 25·951 | 25·317 | ·634 | ·262 | 64·6 | 77·7 | —1·2 | 53·7 | —2·4 | 65·7 | —1·8 | 24·0 | 106·8 | 23·2 | 83·6 | 43·9 |
| | Robat | ... | 26·902 | ... | 26·860 | 27·342 | 26·544 | ·798 | ·336 | 69·7 | 86·2 | ... | 60·8 | ... | 73·5 | ... | 25·3 | 111·5 | 23·2 | 88·3 | 46·7 |
| | **Hill Stations excluding Kashmir and Baluchistan.** | | | | | | | | | | | | | | | | | | | | |
| | Chitral | *5,486* | ... | ... | ... | ... | ... | ... | ... | 53·9 | 73·5 | ... | 45·8 | ... | 59·7 | ... | 27·7 | 108·2 | 22·5 | 83·7 | 43·8 |
| | Para Chinar | 6,000 | 24·406 | ... | 24·373 | 24·657 | 24·102 | ·555 | ·292 | 58·6 | 70·3 | ... | 47·5 | ... | 58·9 | ... | 22·8 | 96·9 | 16·2 | 80·7 | 38·9 |
| | Cherat | *4,256* | 25·690 | —·021 | 25·658 | 25·953 | 25·359 | ·594 | ·275 | 61·5 | 72·1 | —1·7 | 56·2 | —0·5 | 64·1 | —1·1 | 15·9 | 103·1 | 28·0 | 75·1 | 34·7 |
| | Murree | 6,333 | 23·821 | —·008 | 23·789 | 24·018 | 23·590 | ·428 | ·243 | 55·0 | 63·2 | —2·6 | 50·0 | —0·9 | 56·7 | —1·7 | 13·2 | 88·0 | 21·5 | 66·5 | 31·3 |
| | Kailang | *10,087* | 20·948 | ... | 20·903 | 21·224 | 20·649 | ·575 | ·276 | 38·5 | 55·7 | +0·3 | 31·6 | —0·4 | 43·7 | 0 | 24·1 | 81·9 | —3·5 | 85·4 | 41·9 |
| | Simla | 7,232 | 23·079 | —·007 | 23·041 | 23·267 | 22·865 | ·402 | ·219 | 53·5 | 60·5 | —0·3 | 49·6 | —0·3 | 55·1 | —0·3 | 10·9 | 80·4 | 25·2 | 55·2 | 23·4 |
| | Sarain | ... | 23·137 | ... | 23·092 (y) | 23·311 | 22·916 | ·395 | ·209 | 43·3 | 61·6 | ... | 42·6 | ... | 52·1 | ... | 19·1 | 80·4 | 17·3 | 63·1 | 32·4 |
| | Kalabagh (t) | ... | 20·110 | ... | 20·072 | 20·238 | 19·978 | ·260 | ·188 | 48·9 | 54·6 | ... | 45·6 | ... | 50·1 | ... | 9·0 | 61·6 | 30·7 | 30·9 | 19·0 |

*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.

z = Mean of 11 months
r = " 3 "
s = " 4 "
y = " 10 "
t = Mean of 5 months.

B—*contd.*

*244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Madras—*Concld.*** |
| 10 | 61 | 20 | 11 | 18 | 111 | 51 | 58 | 25 | 5·7 | 6·8 | —1·1 | 81 | +5 | ·852 | +·047 | 4·3 | —0·8 | 57 | 83·70 | —26·70 | 47·65 | 50·39 | —2·74 | 5·22 | Madras. |
| 1 | 3 | 41 | 45 | 85 | 6 | 36 | 81 | 67 | ... | ... | ... | 69 | +1 | ·708 | +·062 | 4·9 | +0·6 | 54 | 43·70 | +10·30 | 45·92 | 32·69 | +13·23 | 3·41 | Cuddapah. |
| 76 | 14 | 8 | 17 | 42 | 23 | 33 | 95 | 57 | 5·8 | 6·7 | —0·9 | 57 | —5 | ·523 | —·057 | 3·8 | —0·9 | 35 | 34·30 | +0·70 | 18·64 | 19·73 | —1·09 | 3·27 | Bellary. |
| 74 | 6 | 9 | 45 | 34 | 21 | 73 | 35 | 68 | 7·5 | ... | ... | 66 | 0 | ·509 | —·016 | 3·6 | —0·2 | 37 | 47·60 | —10·60 | 18·28 | 28·40 | —10·12 | 2·39 | Kurnool. |
| 35 | 27 | 12 | 8 | 32 | 52 | 28 | 64 | 107 | 5·7* | 6·7 | —1·0 | 75 | —1 | ·781 | —·028 | 5·4 | +0·4 | 34 | 42·40 | —8·40 | 36·56 | 30·73 | +5·83 | 5·26 | Nellore. |
| 40 | 15 | 44 | 27 | 38 | 60 | 26 | 49 | 66 | (z) 6·8 | 6·5 | (z) +0·2 | 81 | —1 | ·853 | +·007? | 4·8 | 0 | 53 | 51·00 | +2·00 | 37·33 | 40·91 | —3·58 | 4·25 | Masulipatam. |
| 99 | 35 | 51 | 6 | 9 | 5 | 55 | 72 | 33 | 6·4 | 7·9 | —1·5 | 79 | +4 | ·792 | +·032 | 6·4 | +1·7 | 58 | 53·90 | +4·10 | 34·04 | 39·84 | —5·80 | 3·62 | Cocanada. |
| 17 | 24 | 62 | 11 | 4 | 4 | 134 | 94 | 15 | 8·5 | ... | ... | 71 | —2 | ·723 | —·044 | 5·6 | +0·8 | 58 | 49·60 | +8·40 | 34·67 | 43·54 | —8·87 | 7·53 | Waltair (Vizagapatam.) |
| 23 | 33 | 17 | 5 | 5 | 38 | 76 | 75 | 86 | 6·7 | ... | ... | ... | ... | ... | ... | 4·6 | ... | 52 | ... | ... | 40·28 | ... | ... | 8·73 | Calingapatam (g). |
| 16 | 113 | 6 | 5 | 1 | 21 | 102 | 18 | 82 | 11·1 | 11·8 | —0·7 | (z) 83 | +2 | (z) ·789 | +·005 | 3·1 | —1·5 | 61 | 55·20 | +5·80 | 44·70 | 47·53 | —2·83 | 5·29 | Gopalpur (a). |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Bay Islands.** |
| 17 | 52 | 42 | 9 | 17 | 45 | 125 | 31 | 25 | (w) 9·4 | ... | ... | (z) 82 | ... | (z) ·862 | ... | 4·0 | ... | 69 | ... | .. | 57·47 | ... | ... | 5·70 | P. V. Fraser. (b). |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Upper Gasper. |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | Lower " |
| ... | 27 | 46 | 24 | 38 | 36 | 99 | 20 | 5 | 4·0 | ... | ... | 84 | ... | ·897 | ... | 9·5 | ... | 147 | ... | ... | 103·13 | ... | ... | 4·73 | Car Nicobar. (c). |
| 311 | 15 | 30 | 13 | 19 | 17 | 53 | 72 | 35 | *6·9 | 7·5 | —0·6 | 85 | —1 | ·864 | —·031 | 6·7 | +0·7 | 152 | ... | ... | 150·26 | 117·63 | +32·63 | 8·93 | Port Blair. |
| 31 | 47 | 39 | 31 | 15 | 32 | 86 | 50 | 26 | 12·3 | ... | ... | 84 | ... | ·877 | ... | 6·3 | ... | 114 | ... | ... | 74·14 | ... | ... | 3·90 | Slipper Island. (h). |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Kashmir.** |
| 155 | 11 | 7 | 4 | 100 | 29 | 16 | 11 | 32 | 3·0 | 3·6 | —0·6 | 83 | —3 | ·328 | —·027 | 4·6 | 0 | 61 | 56·50 | +4·50 | 31·48 | 24·74 | +6·74 | 2·06 | Srinagar. |
| 58 | 1 | 20 | 24 | 4 | 1 | 3 | 6 | 5 | 3·4 | ... | ... | 78 | .. | ·382 | ... | 4·7 | ... | (u) 51 | ... | ... | (u) 27·33 | ... | ... | 2·90 | Gulmarg. ‡ |
| 245 | 17 | 47 | 33 | 9 | 6 | 3 | 3 | 2 | 2·7 | ... | ... | 85 | ... | ·198 | ... | 4·4 | ... | 120 | ... | ... | 69·73 | ... | ... | 4·75 | Sonemarg. |
| 289 | 3 | 3 | 3 | ... | 1 | 8 | 45 | 22 | 3·5 | ... | ... | 79 | +3 | ·166 | ... | 4·1 | ... | 60 | 61·10 | —1·10 | 17·19 | 21·74 | —4·55 | 1·27 | Dras. |
| 286 | 2 | 4 | 8 | 3 | 33 | 13 | 16 | ... | 2·8 | 2·0 | +0·8 | 51 | —1 | ·139 | +·008 | 4·8 | 0 | 8 | 9·30 | —1·30 | 2·85 | 3·00 | —0·15 | 0·30 | Leh. |
| 277 | ... | 6 | 9 | 31 | 21 | 15 | 5 | 1 | 5·6 | ... | ... | 64 | —7 | ·202 | ... | 4·3 | ... | 17 | 17·00 | 0 | 5·37 | 7·41 | —2·04 | 0·76 | Skardu. |
| 47 | 12 | 22 | 19 | 2 | ... | 6 | 2 | 1 | 7·0 | ... | ... | 69 | ... | ·075 | ... | 5·9 | ... | 48 | ... | ... | 28·46 | ... | ... | 2·42 | Minimarg. (‖) |
| 61 | 1 | ... | 4 | 6 | 39 | 9 | 1 | ... | 2·9 | ... | ... | 65 | ... | ·089 | ... | 6·3 | ... | 10 | ... | ... | 3·59 | ... | ... | 0·80 | Astor. (§) |
| 305 | 1 | 2 | 5 | 2 | 1 | 14 | 33 | 2 | 2·0 | ... | ... | 54 | +3 | ·279 | +·010 | 4·8 | 0 | 16 | 14·00 | +2·00 | 4·16 | 4·80 | —0·64 | 0·42 | Gilgit. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Baluchistan.** |
| 303 | 11 | 5 | 9 | 11 | 14 | 6 | 4 | 2 | 2·2 | 2·9 | —0·7 | 53 | —5 | ·250 | —·037 | 1·9 | 0 | 24 | 23·80 | —2·80 | 8·31 | 10·68 | —2·37 | 1·13 | Quetta. |
| 77 | 2 | 1 | 32 | 60 | 75 | 84 | 18 | 16 | 6·7 | 8·1 | —1·4 | 42 | 0 | ·223 | —·039 | 2·3 | +0·3 | 20 | 19·60 | +0·40 | 7·04 | 6·29 | +0·75 | 1·39 | Chaman. |
| 71 | 20 | 71 | 23 | 1 | 8 | 105 | 55 | 11 | 7·7 | ... | ... | 54 | ... | ·420 | ... | 1·1 | ... | 11 | ... | ... | 4·41 | ... | ... | 1·54 | Robat. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Hill Stations excluding Kashmir and Baluchistan.** |
| 323 | 7 | 26 | 1 | 3 | ... | 3 | ... | 2 | (y) 2·9 | .. | ... | 65 | ... | ·230 | ... | 2·2 | ... | 28 | ... | ... | 8·46 | ... | ... | 0·78 | Chitral. |
| 324 | 3 | 2 | 4 | 4 | 10 | 8 | 4 | 6 | 3·9* | ... | ... | 58 | ... | ·299 | ... | 2·4 | ... | 56 | 58·20 | —2·20 | 24·32 | 25·18 | —0·86 | 1·35 | Para Chinar. |
| 68 | 94 | 20 | 4 | 28 | 37 | 17 | 10 | 87 | 10·3 | 11·4 | —1·1 | 49 | —4 | ·300 | —·019 | 3·2 | +0·1 | 39 | ... | ... | 23·86 | 24·43 | —0·57 | 3·87 | Cherat. |
| 74 | 56 | 8 | 13 | 107 | 62 | 5 | 2 | 38 | 7·2 | 7·3 | —0·1 | 59 | +4 | ·280 | +·017 | 3·8 | 0 | 93 | 77·30 | +15·70 | 76·20 | 55·85 | +20·35 | 3·75 | Murree. |
| ... | 8 | 1 | 19 | 94 | 43 | 100 | 66 | 31 | 1·7* | 1·6 | +0·1 | 67 | ... | ·184 | ... | 4·4 | ... | 49 | ... | ... | 18·37 | 22·84 | —4·47 | 1·10 | Kaijang. (e). |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 58 | 0 | ·260 | 0 | 4·4 | +0·2 | 99 | 80·10 | +18·90 | 61·64 | 63·59 | —1·95 | 2·75 | Simla. |
| 181 | 1 | 16 | 10 | 2 | 81 | 63 | 10 | 1 | 2·9 | ... | ... | 72 | ... | ·270 | ... | 4·1 | ... | 99 | ... | ... | 62·67 | ... | ... | 3·62 | Sarnin. |
| 50 | 16 | 1 | ... | 26 | 29 | ... | 1 | 29 | 6·9 | ... | ... | 76 | ... | ·272 | ... | 6·4 | ... | 74 | ... | ... | 57·15 | ... | ... | 5·14 | Kalabagh. (f). |

*a*=Wind observations for 362 days.
*g*= " " for 358 "
*f*= " " for 152 "
*a*= " " for 364 "
*h*= " " for 357 "
*y*= Mean of 10 months.
(*u*)= " 6 "

(*w*)= Mean of 8 months.
*z*= " 11 "
*Uncorrected for scale error.
‡ Wind observations for 122 days.
(‖) " " " 118 "
(§) " " " 121 "
(*b*) " " " 363 "
(*e*) " " " 295 "

# TABLE

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

| Number of sub-division. | Station. | Elevation of barometer cistern above sea-level, in feet. | Pressure, 8 hrs., in inches. | | | | | | | Temperature of air. | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean 8 hrs. pressure reduced to 32°. | Departure from normal. | Mean 8 hrs. pressure reduced to sea-level and to constant gravity at 45° Lat. | Highest pressure recorded during year. | Lowest pressure recorded during year. | Absolute range during year. | Mean monthly range of pressure. | Mean of 8 hrs temperature 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 |
| | **Hill Stations excluding Kashmir and Baluchistan** *concld.*— | | | | | | | | | | | | | | | | | | | | |
| | Chakrata | 7,022 | 23·278 | +·013 | 23·238 | 23·456 | 23·060 | ·396 | ·206 | 53·8 | 65·1 | +0·9 | 49·4 | −0·3 | 57·3 | +0·3 | 15·8 | 81·3 | 21·2 | 60·1 | 28·9 |
| | Muktesar | 7,592 | 22·319 | −·017 | 22·778 | 22·992 | 22·605 | ·387 | ·198 | 53·5 | 66·2 | +2·0 | 48·0 | −0·4 | 57·1 | +0·8 | 18·2 | 79·5 | 26·0 | 53·5 | 31·0 |
| | Darjeeling (r) | 7,376 | ... | ... | ... | ... | ... | ... | ... | 50·7 | 57·7 | +3·3 | 44·4 | +1·5 | 51·1 | +2·4 | 13·3 | 71·8 | 31·2 | 40·6 | 27·6 |
| | Shillong | 4,920 | 25·108 | ... | 25·060 | 25·319 | 24·894 | ·425 | ·203 | 60·4 | 70·8 | ... | 54·0 | ... | 62·4 | ... | 16·8 | 83·9 | 30·2 | 53·7 | 29·7 |
| | Cherra Poonjee | 4,309 | 25·056 | ... | 25·607 | 25·839 | 25·438 | ·401 | ·201 | 61·7 | 69·6 | ... | (x) 59·2 | ... | (x) 64·7 | ... | (x) 11·0 | 81·2 | 39·8 | 41·4 | (z) 23·2 |
| | Maymyo | 3,545 | (y) 26·421 | (y) −·008 | (y) 26·360 | 26·635 | 26·216 | ·419 | (y) ·183 | 64·7 | 77·1 | −0·1 | 57·4 | +1·9 | 67·3 | +0·9 | 19·6 | 94·9 | 33·6 | 61·3 | 31·1 |
| | Pachmarhi | 3,528 | 26·427 | 0 | 26·373 | 26·658 | 26·083 | ·575 | ·189 | 69·1 | 79·7 | +0·3 | 60·8 | −0·4 | 70·3 | −0·1 | 19·0 | 100·2 | 36·1 | 64·1 | 32·5 |
| | Mount Abu | 3,945 | 26·018 | −·011 | 25·968 | 26·249 | 25·653 | ·596 | ·203 | 67·1 | 71·4 | −1·6 | 61·3 | −0·7 | 67·9 | −1·2 | 13·2 | 95·7 | 40·4 | 55·3 | 26·3 |
| | Mercara | 3,781 | 26·223 | −·008 | 26·156 | 26·349 | 26·046 | ·303 | ·151 | 65·6 | 76·7 | +0·1 | 61·1 | −0·2 | 68·9 | −0·1 | 15·6 | 90·0 | 52·5 | 37·5 | 23·5 |
| | Ootacamund | 7,327 | 23·045 | ... | 22·932 | 23·143 | 22·875 | ·268 | ·132 | 57·1 | 65·2 | ... | 49·0 | ... | 57·1 | ... | 16·2 | 74·5 | 37·2 | 37·3 | 26·8 |
| | Kodaikanal | 7,988 | 22·812 | −·027 | 22·747 | 22·905 | 22·654 | ·251 | ·126 | 56·3 | 63·8 | −1·0 | 51·0 | −0·1 | 57·4 | −0·5 | 12·8 | 72·5 | 43·0 | 29·5 | 20·8 |
| | **Extra India.** | | | | | | | | | | | | | | | | | | | | |
| | Singapore (a) | 10 | 29·923 | ... | 29·854 | 30·029 | 29·809 | ·220 | ·151 | 83·1 | 87·9 | ... | 73·7 | ... | 80·9 | ... | 14·2 | 92·5 | 69·0 | 23·5 | 18·9 |
| | Penang (a) | 20 | 29·905 | ... | 29·850 | 30·017 | 29·503 | ·514 | ·172 | 81·6 | 89·4 | ... | 74·3 | ... | 81·9 | ... | 15·1 | 93·0 | 68·0 | 25·0 | 19·1 |
| | Trincomalee | 12 | 29·907 | +·019 | 29·845 | 30·049 | 29·706 | ·343 | ·155 | 77·3 | 88·7 | +0·1 | 76·1 | −0·3 | 82·4 | −0·1 | 12·6 | 96·5 | 68·0 | 28·5 | 19·4 |
| | Colombo | 40 | 29·886 | −·019 | 29·852 | 29·990 | 29·747 | ·243 | ·146 | 76·4 | 86·9 | −0·1 | 75·2 | 0 | 81·1 | 0 | 11·7 | 93·5 | 63·0 | 30·5 | 19·3 |
| | Minicoy | 7 | 29·945 | ... | ... | 30·056 | 29·804 | ·252 | ·143 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Amini Divi | 13 | 29·922 | −·005 | 29·863 | 30·064 | 29·724 | ·340 | ·164 | 82·3 | 88·0 | +1·8 | 76·8 | −0·2 | 82·5 | +0·8 | 11·2 | 98·3 | 68·2 | 30·1 | 18·7 |
| | Gyantse | 13,120 | (t) 17·009 | ... | (t) 16·970 | 17·189 | 16·958 | ·231 | (t) ·079 | 37·7 | 60·0 | ... | (x) 21·7 | ... | (x) 38·7 | ... | (x) 24·0 | 88·9 | −1·3 | 90·2 | (x) 51·0 |
| | Pharijong | 14,400 | ... | ... | ... | ... | ... | ... | ... | 31·6 | 51·9 | ... | 10·6 | ... | 31·2 | ... | 41·3 | 73·3 | −25·0 | 98·3 | 59·4 |
| | Gangtok | 5,600? | 24·429 | ... | (z) 24·381 | 24·637 | 24·199 | ·438 | ·219 | 60·7 | 69·2 | ... | (z) 54·1 | ... | (z) 62·1 | ... | (z) 15·4 | 80·3 | 35·8 | 44·5 | (z) 27·0 |
| | Gartok (c) | 15,100? | (w) 17·641 | ... | ... | 17·960 | 17·280 | ·680 | (w) ·287 | 30·9 | 45·1 | ... | 18·9 | ... | 32·0 | ... | 26·1 | 74·5 | −20·0 | 94·5 | 46·0 |
| | Kashgar (c) | 4,255 | 25·584 | ... | ... | 26·030 | 25·160 | ·870 | ·417 | 49·9 | 68·2 | +2·0 | 42·8 | −0·7 | 55·5 | +0·7 | 25·5 | 102·1 | −4·7 | 106·8 | 46·2 |
| | Kabul | ... | 24·257 | ... | 24·226 | 24·490 | 23·977 | ·513 | ·253 | 53·0 | 72·2 | +0·2 | 40·3 | −2·1 | 56·3 | −1·0 | 31·8 | 101·1 | −7·1 | 108·2 | 51·4 |
| | Meshed | 3,104 | 26·771 | ... | (u) 26·751 | 27·131 | 26·329 | ·802 | ·422 | 53·7 | 71·6 | ... | 38·3 | −7·5 | 55·0 | ... | 33·3 | 102·6 | 4·8 | 97·8 | 57·9 |
| | Jask | 13 | 29·841 | −·025 | 29·811 | 30·253 | 29·364 | ·889 | ·280 | 77·4 | 86·3 | −0·2 | 74·2 | +0·8 | 80·3 | +0·3 | 12·1 | 111·8 | 53·3 | 58·5 | 26·1 |
| | Muscat | 20 | 29·848 | −·010 | 29·816 | 30·243 | 29·365 | ·878 | ·272 | 81·4 | 89·2 | +5·9 | 78·2 | −0·7 | 83·7 | +2·6 | 11·1 | 110·8 | 59·1 | 51·7 | 25·5 |
| | Bahrein | 18 | (y) 29·910 | ... | (y) 29·880 | 30·314 | 29·413 | ·901 | (y) ·295 | 78·7 | 83·9 | ... | 73·5 | ... | 78·7 | ... | 10·3 | 107·1 | 48·3 | 58·8 | 27·5 |
| | Bushire | 14 | 29·833 | −·029 | 29·806 | 30·272 | 29·289 | ·983 | ·302 | 74·4 | 83·9 | +0·3 | 69·7 | +1·2 | 76·4 | +1·0 | 13·2 | 111·3 | 42·6 | 68·7 | 32·9 |
| | Basrah | 25 | 29·885 | ... | 29·869 | 30·443 | 29·394 | 1·049 | ·372 | 72·7 | 84·7 | ... | 65·7 | ... | 75·3 | ... | 19·0 | 108·4 | 30·1 | 78·3 | 36·7 |
| | Kerman | .. | ... | ... | ... | ... | ... | ... | ... | 54·9 | 80·7 | ... | 44·7 | ... | 62·7 | ... | 36·0 | 110·0 | 14·2 | 95·8 | 55·6 |
| | Ispahan (b) | *5,817* | 24·250 | ... | ... | 24·600 | 23·900 | ·700 | ·374 | 51·8 | 73·5 | −0·6 | 46·7 | +1·5 | 60·1 | +0·4 | 26·8 | 104·4 | 18·9 | 85·5 | 43·4 |
| | Tehran (b) | *4,002* | 25·791 | ... | ... | 26·175 | 25·375 | ·800 | ·398 | 57·4 | 74·7 | +1·7 | 51·4 | +0·4 | 63·1 | +1·0 | 23·3 | 106·6 | 14·7 | 91·9 | 42·1 |
| | Baghdad | 127 | 29·760 | (z) −·026 | 29·862 | 30·319 | 29·260 | 1·059 | ·466 | 67·8 | 87·7 | +2·8 | 62·0 | +2·6 | 74·9 | +2·7 | 25·7 | 120·2 | 28·0 | 92·2 | 42·3 |
| | Beirut | ... | ... | ... | 29·892 | ... | ... | ... | ... | 70·1 | 76·7 | ... | 63·2 | ... | 70·0 | ... | 13·5 | 98·6 | 42·0 | 56·6 | 26·9 |
| | Aden | 94 | 29·827 | +·001 | 29·853 | 30·065 | 29·501 | ·564 | ·186 | 82·0 | 87·9 | −0·4 | 78·7 | +1·0 | 83·3 | +0·3 | 9·2 | 98·3 | 68·9 | 29·4 | 18·4 |
| | Perim | 201 | 29·655 | −·034 | 29·790 | 29·880 | 29·337 | ·543 | ·183 | 83·0 | 89·3 | −0·5 | 79·7 | +0·6 | 84·5 | 0 | 9·6 | 99·5 | 70·4 | 29·1 | 15·6 |
| | Zanzibar | 72 | 29·993 | 0 | 29·992 | 30·165 | 29·817 | ·348 | ·127 | 78·5 | 83·8 | +0·2 | 75·8 | −0·7 | 79·8 | −0·3 | 8·1 | 91·7 | 67·8 | 23·9 | 14·3 |

*N.B.*—Elevations in italics indicate barometrical determinations.
NOTE.—The barometric readings are not reduced to sea-level, in the case of hill or plateau stations, the elevations of which exceed 3,200 feet.
(a) 9 hours observations.

(b) Aneroid uncorrected.
(c) Do. corrected.

(x) Mean of 11 months.
(y) " " 10 "
(z) " " 9 "
(r) " " 8 "

(u) " " 6 "
(w) " " 6 "
(t) " " 5 "

B.—*concld.*

*244 stations in India, etc., in the year 1909.*

| 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. | Normal. | 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 in inches of mercury 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Hill Stations excluding Kashmir and Baluchistan**—*concld.* |
| 111 | 187 | 7 | 4 | 10 | 33 | 1 | 1 | 11 | 5·4 | 6·3 | −0·9 | 65 | +1 | ·298 | +·007 | 3·8 | +0·4 | 99 | 88·00 | +11·00 | 81·91 | 70·71 | +14·20 | 4·22 | Chakrata. |
| 58 | 5 | 19 | 80 | 24 | 8 | 4 | 62 | 5 | 5·9 | ... | ... | 63 | +2 | ·285 | ... | 4·5 | ... | 92 | ... | ... | 63·35 | 48·67 | +14·68 | 3·38 | Muktesar. |
| 79 | 1 | 4 | 5 | 2 | ... | 1 | ... | ... | 0·9 | 4·8 | −2·1 | 79 | ... | ·303 | ... | 6·0 | ... | 0 | 123·00 | (r) −0·20 | (x) 9·78 | 124·38 | (x) −114·1 | 2·94 | Darjeeling. (r) |
| 26 | ... | 5 | 1 | 22 | 10 | 70 | ... | 1 | 3·9 | ... | ... | 73 | ... | ·407 | ... | 4·2 | ... | 118 | 120·40 | −2·40 | 73·60 | 79·72 | −6·12 | 5·00 | Shillong. |
| 94 | 13 | 54 | 39 | 47 | 25 | 74 | 30 | 19 | 5·3 | ... | ... | 81 | ... | ·473 | ... | 5·2 | ... | 154 | 161·70 | −7·70 | 335·78 | 433·85 | −103·07 | 12·90 | Cherra Poonjee. |
| 157 | 2 | 29 | 4 | 5 | 17 | 52 | 6 | 1 | (y) 5·3 | ... | ... | 85 | +2 | ·549 | ... | 3·3 | ... | 111 | 90·70 | +20·30 | 60·89 | 59·00 | +1·89 | 2·96 | Maymyo. (v) |
| 60 | 18 | 16 | 31 | 12 | 14 | 61 | 87 | 66 | 6·1 | 5·9 | +0·2 | 63 | +3 | ·444 | +·010 | 3·2 | −0·7 | 80 | 79·20 | +0·80 | 61·92 | 76·21 | −14·29 | 5·04 | Pachmarhi. |
| 32 | 11 | 62 | 5 | 34 | 8 | 135 | 32 | 37 | 8·0 | 7·8 | +0·2 | 57 | +2 | ·382 | +·009 | 3·9 | +0·6 | 67 | 54·20 | +12·80 | 110·21 | 61·73 | +48·48 | 12·96 | Mount Abu. (i) |
| 53 | 44 | 64 | 34 | 4 | 3 | 19 | 64 | 80 | 5·6 | 5·9 | −0·3 | 84 | +1 | ·527 | −·009 | 5·5 | −0·4 | 134 | 131·70 | −0·70 | 138·82 | 125·94 | +12·88 | 6·85 | Mercara. |
| 55 | 9 | 38 | 68 | 59 | 21 | 30 | 51 | 21 | 5·0 | ... | ... | 72 | ... | ·340 | ... | 5·1 | ... | 197 | 99·70 | +16·30 | 66·73 | 46·60 | +20·13 | 4·52 | Ootacamund. (m) |
| 4 | 43 | 34 | 54 | 31 | 15 | 4 | 75 | 105 | 12·9 | ... | ... | 71 | +1 | ·324 | ... | 4·7 | ... | 110 | 99·40 | +10·60 | 68·24 | 59·88 | +8·36 | 4·35 | Kodaikanal. |
| | | | | | | | | | | | | | | | | | | | | | | | | | **Extra India.** |
| 171 | 20 | 42 | 29 | 19 | 7 | 27 | 8 | 33 | (y) 5·7 | ... | ... | ... | ... | ... | ... | 5·1 | ... | 126 | ... | ... | 101·64 | ... | ... | 6·61 | Singapore. |
| 10 | 62 | 82 | 63 | 34 | 36 | 5 | 23 | 49 | (z) 11·1 | ... | ... | ... | ... | ... | ... | 2·1 | ... | 152 | ... | ... | 138·80 | ... | ... | 8·50 | Penang. (a) |
| 113 | 8 | 20 | 3 | 1 | 15 | 188 | 16 | 1 | 4·6* | 10·0 | −5·4 | 80 | +8 | ·846 | −·018 | 3·4 | +0·1 | 71 | ... | ... | 44·32 | 62·37 | −18·05 | 3·67 | Trincomalee. |
| 18 | 11 | 62 | 35 | 18 | 7 | 142 | 60 | 11 | 6·3* | 8·0 | −1·7 | 91 | +14 | ·836 | −·009 | 6·2 | +1·1 | 98 | ... | ... | 67·46 | 89·59 | −22·13 | 3·48 | Colombo. (a) |
| 7 | 74 | 8 | 10 | 9 | 2 | 24 | 90 | 100 | 7·2 | 9·5 | −2·3 | ... | ... | ... | ... | 4·3 | −0·3 | 81 | ... | ... | 57·60 | 57·48 | +0·12 | 4·60 | Minicoy. (a) |
| 38 | 77 | 35 | 5 | 1 | .. | 36 | 38 | 135 | ... | ... | ... | 76 | −3 | ·837 | −·042 | 5·0 | −0·3 | 67 | ... | ... | 59·97 | 48·41 | +11·56 | 9·52 | Amini Divi. |
| 136 | 15 | 1 | 16 | 120 | 42 | 30 | 2 | 2 | (z) 3·8 | ... | ... | (y) 66 | ... | (y) ·166 | ... | ... | ... | 30 | ... | ... | 9·80 | ... | ... | 1·41 | Gyantse. (a) |
| ... | 58 | 9 | 19 | 67 | 119 | 39 | 27 | 27 | 8·4 | ... | ... | (z) 71 | ... | (z) ·158 | ... | (o) 2·1 | ... | 48 | ... | ... | 14·72 | ... | ... | 1·08 | Pharijong. |
| 332 | 3 | 11 | 2 | 2 | 3 | 2 | ... | 1 | 1·0 | ... | ... | 80 | ... | ·443 | ... | 3·1 | ... | 162 | ... | ... | 134·59 | ... | ... | 3·67 | Gangtok. (i). |
| 150 | 3 | 1 | 4 | 121 | 73 | 10 | 2 | 1 | 9·5 | ... | ... | ... | ... | ... | ... | 3·6 | ... | 9 | ... | ... | 3·19 | ... | ... | 0·41 | Gartok. |
| 335 | .. | ... | ... | ... | 2 | 11 | ... | 17 | (q) 0·5 | 2·8 | (q) −0·6 | (x) 58 | ? | (x) ·339 | 4 | 3·7 | −0·5 | 8 | ... | ... | 2·25 | 3·99 | −1·74 | 0·40 | Kashgar. |
| ... | 60 | 44 | 15 | 10 | 19 | 34 | 95 | 88 | ... | ... | ... | 57 | ... | ·257 | ... | 1·9 | +0·3 | 28 | ... | ... | 15·67 | 11·85 | +3·82 | 1·40 | Kabul. |
| 217 | 46 | 33 | 9 | 21 | 15 | 6 | 5 | 13 | 1·4 | ... | ... | 59 | ... | ·244 | ... | 3·5 | ? | 20 | ... | ... | 5·55 | 8·29 | −2·74 | 0·51 | Meshed. |
| 46 | 58 | 38 | 122 | 16 | 5 | 7 | 15 | 51 | 10·9 | 11·9 | −1·0 | 77 | +6 | ·741 | +·014 | 1·8 | +0·2 | 12 | ... | ... | 6·42 | 4·49 | +1·93 | 1·78 | Jask. (d). |
| 210 | 14 | 2 | 20 | 24 | ... | 2 | 30 | 59 | 4·4 | 4·3 | +0·1 | 65 | −4 | ·697 | −·045 | 2·4 | +0·8 | 10 | ... | ... | 6·66 | 4·43 | +2·23 | 2·09 | Muscat. (d). |
| ... | 55 | 29 | 33 | 29 | 15 | 20 | 78 | 103 | 7·3 | ... | ... | 73 | ... | ·765 | ... | (z) 1·5 | ... | 9 | ... | ... | 4·95 | ... | ... | 1·58 | Bahrein. (c). |
| 106 | 44 | 46 | 44 | 21 | 2 | 11 | 14 | 77 | 10·3 | 7·9 | +2·4 | 77 | +10 | ·697 | +·089 | 2·0 | ... | 22 | ... | ... | 14·29 | 12·11 | +2·18 | 5·23 | Bushire. |
| 51 | 21 | 18 | 6 | 23 | 26 | 24 | 136 | 59 | (z) 4·6 | ... | ... | 64 | ... | ·532 | ... | (x) 2·2 | ... | 10 | ... | ... | 4·15 | ... | ... | 0·60 | Busrah (a). |
| ... | 79 | 29 | 42 | 40 | 41 | 60 | 33 | 41 | 3·1 | ... | ... | 47 | ... | ·202 | ... | 1·3 | ... | ... | ... | ... | ... | ... | ... | ... | Kerman. |
| 175 | 14 | 2 | 2 | 7 | 9 | 14 | 58 | 12 | 2·6 | 3·9 | −1·3 | 74 | +10 | ·334 | +·015 | 1·4 | −0·7 | 17 | ... | ... | 5·56 | 3·64 | +1·92 | 0·95 | Ispahan. (v). |
| 110 | 73 | 119 | 11 | 12 | 9 | 18 | 9 | 4 | 3·4 | 3·0 | +0·4 | 61 | +13 | ·293 | +·042 | 1·9 | −0·6 | 24 | ... | ... | 6·99 | 9·49 | −2·50 | 0·98 | Tehran. |
| 127 | 50 | 20 | 10 | 19 | 13 | 5 | 20 | 93 | 7·5 | 3·6 | +3·9 | 54 | −5 | ·363 | −·046 | 2·0 | +0·8 | 14 | ... | ... | 2·78 | 9·04 | −6·26 | 0·41 | Baghdad. (h). |
| 43 | 14 | 41 | 9 | 43 | 6 | 199 | 3 | 7 | ... | ... | ... | 68 | ... | ·520 | ... | 3·5 | ... | 55 | ... | ... | 33·03 | ... | ... | 3·00 | Beirut. |
| 32 | 1 | 248 | ... | 41 | ... | 41 | ... | 1 | 13·8 | 12·5 | +1·3 | 76 | +3 | ·827 | +·016 | 4·0 | −0·2 | 2 | ... | ... | 0·72 | 2·97 | −2·25 | 0·39 | Aden. (a). |
| ... | 29 | 4 | 94 | 97 | 66 | 1 | 34 | 40 | 14·1 | 16·9 | −2·8 | 72 | −1 | ·830 | +·005 | ... | ... | 1 | ... | ... | 1·00 | 1·92 | −0·92 | 0·86 | Perim. |
| 54 | 28 | 45 | 14 | 52 | 75 | 86 | 9 | ... | 5·9 | 6·7 | −0·8 | 82 | −1 | ·798 | −·019 | 6·6 | +0·7 | 107 | ... | ... | 85·09 | 59·51 | +25·58 | 4·02 | Zanzibar. (b). |

(o) Mean of 7 months.
(y) ,, ,, 10 ,,
(z) ,, ,, 11 ,,
(a) Wind observations for 364 days.
(v) ,, ,, ,, 293 ,,
(i) ,, ,, ,, 356 ,,
(m) ,, ,, ,, 352 ,,
(h) ,, ,, ,, 357 ,,

(r). Wind observatios for 363 days.
(d). ,, ,, ,, 361 ,,
(c). ,, ,, ,, 362 ,,
(x) Rainfall since 15th September 1909.
(r) Mean of 3 months and normal velocity, number of rainy days and rainfall for the whole year.
* Uncorrected for scale error.
(x) Mean of 9 months.
(g) ,, ,, ,,

**Table C.—Abstract of observations taken at 8 hrs. at 32 fourth class stations in India, etc., in the year 1909.**

# TABLE

*Abstract of observations taken at 8 hrs. at 32 fourth*

| Number of sub-division. | Station. | Temperature of air. Mean of 8 hrs. temperature 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 |
| | **II.—Eastern Bengal and Assam.** | | | | | | | | | | | | | | | | | | | | | |
| 4 | Bishnath | 69·3 | 85·1 | ... | 59·1 | ... | 72·1 | ... | 26·0 | 98·1 | 30·2 | 67·9 | 38·9 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Borjuli | 70·8 | 86·1 | ... | 63·5 | ... | 74·8 | ... | 22·6 | 98·3 | 36·4 | 61·9 | 35·7 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Chandkhira | 71·3 | 88·0 | ... | 64·7 | ... | 76·4 | ... | 23·3 | 100·8 | 39·5 | 61·3 | 39·2 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Doom Dooma | 68·6 | 81·4 | ... | 63·1 | ... | 72·3 | ... | 18·3 | 100·1 | 40·7 | 59·4 | 30·5 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Dikom | 68·4 | 83·5 | ... | 64·0 | ... | 73.7 | ... | 19·5 | 98·6 | 37·6 | 61·0 | 33·5 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Golaghat | 71·7 | 83·7 | ... | (a) 62·0 | ... | (a) 75·0 | ... | 18·7 | 99·1 | 41·9 | 57·2 | (a) 33·9 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Hailakandi | 68·9 | 87·3 | ... | 65·9 | ... | 76·6 | ... | 21·4 | 99·4 | 42·2 | 57·2 | 32·9 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Jorehat | 71·1 | 84·0 | ... | 65·7 | ... | 74·9 | ... | 18·3 | 97·9 | 41·8 | 56·1 | 30·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Messa | 74·9 | 90·2 | ... | 62·3 | ... | 76·3 | ... | 27·9 | 105·8 | 39·8 | 66·0 | 40·0 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Paneribat | 64·8 | 85·3 | ... | (b) 63·2 | ... | (b) 74·3 | ... | 22·1 | 96·9 | 38·5 | 58·4 | (b) 33·0 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Srimangal | 72·7 | 88·6 | ... | 65·8 | ... | 77·3 | ... | 22·8 | 102·7 | 39·7 | 63·0 | 35·2 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 5 | Brahmanbaria | 75·5 | 87·7 | ... | 68·0 | ... | 77·9 | ... | 19·7 | 101·6 | 43·4 | 58·2 | 34·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Dam Dim | 66·3 | 89·1 | ... | 61·0 | ... | 75·1 | ... | 28·1 | 97·9 | 34·9 | 63·0 | 40·4 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Goalundo | 75·5 | 87·5 | ... | 67·3 | ... | 77·4 | ... | 20·2 | 104·1 | 40·4 | 63·7 | 34·3 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Kalchini | 74·3 | 85·9 | ... | 62·3 | ... | 74·1 | ... | 23·6 | 99·6 | 37·9 | 61·7 | 35·4 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Nagrakata | 70·0 | 86·2 | ... | 64·7 | ... | 75·5 | ... | 21·5 | 97·1 | 42·0 | 55·1 | 33·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Pabna | 75·3 | 89·6 | ... | 66·7 | ... | 77·8 | ... | 22·9 | 107·0 | 41·9 | 65·1 | 35·9 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | **III.—Bengal.** | | | | | | | | | | | | | | | | | | | | | |
| 6 | (c) Fraserganj | 73·6 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 45 | | 1 | ... | 31 | ... | 13 | ... |
| | **XI.—Central Provinces.** | | | | | | | | | | | | | | | | | | | | | |
| 24 | Chhindwara | 70·9 | 86·7 | ... | 63·7 | ... | 75·1 | ... | 23·0 | 105·7 | 42·9 | 62·8 | 35·6 | ... | 43 | 3 | 15 | 13 | 15 | 26 | 88 | 118 |
| | **Hill Stations.** | | | | | | | | | | | | | | | | | | | | | |
| | Panighatta | 72·9 | 84·2 | ... | 65·6 | ... | 74·9 | ... | 18·6 | 95·9 | 41·3 | 54·6 | 31·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Kurseong | 61·4 | 69·1 | ... | 57·3 | ... | 63·3 | ... | 11·8 | 84·8 | 40·2 | 44·6 | 23·7 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Poo | ... | 59·3 | ... | 34·6 | ... | 47·0 | ... | 24·7 | 79·6 | 3·9 | 75·7 | 39·6 | 214 | 6 | 12 | 4 | 22 | 17 | 2 | 1 | 4 |
| | Kargil | 40·6 | (b) 60·5 | ... | (b) 32·4 | ... | (b) 46·5 | ... | 28·1 | 92·5 | —31·0 | 123·5 | (b) 45·9 | ... | 70 | 61 | 26 | 54 | 7 | 21 | 21 | 105 |
| | Killa Drosh | 56·5 | 73·8 | ... | 51·1 | ... | 62·4 | ... | 22·5 | 105·2 | 22·1 | 83·1 | 42·7 | 213 | 3 | 23 | 7 | 17 | 3 | 3 | 8 | 7 |
| | Pishin | ... | 76·1 | ... | 44·9 | ... | 60·5 | ... | 31·2 | 103·4 | 17·0 | 86·4 | 50·2 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Kalat | †55·3 | 71·7 | —2·8 | 40·1 | +4·5 | 55·9 | + 0·8 | 31·6 | 96·0 | 9·9 | 86·1 | 51·0 | ... | 70 | | 13 | ... | 26 | 1 | 14 | 1 |
| | **Extra India.** | | | | | | | | | | | | | | | | | | | | | |
| | Ahwaz | ... | 91·9 | ... | 68·9 | ... | 80·5 | ... | 23·0 | 117·4 | 32·0 | 85·4 | 41·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Birjand | 59·2 | 71·1 | ... | 50·0 | ... | 60·6 | ... | 21·1 | 99·6 | 17·1 | 82·5 | 41·0 | 30 | 24 | 95 | 6 | 4 | 23 | 3 | 9 | 7 |
| | Chumbi | †41·3 | †58·8 | ... | 35·8 | ... | 47·3 | ... | 23·0 | 79·7 | 12·8 | 66·9 | 37·1 | 98 | ... | 41 | ... | ... | ... | ... | ... | ... |
| | Kirmanshah | 56·1 | 70·1 | ... | 45·2 | ... | 57·7 | ... | 24·9 | 99·4 | 10·0 | 89·4 | 43·6 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Koweit | ... | 86·6 | ... | 69·6 | ... | 77·3 | ... | 17·0 | 117·3 | 39·9 | 77·4 | 34·5 | 9 | 14 | 9 | 1 | 45 | 7 | 14 | 82 | 181 |
| | (d) Maidan | ... | 92·6 | ... | 65·5 | ... | 79·1 | ... | 27·1 | 126·2 | 29·9 | 96·3 | 42·9 | ... | ... | ... | ... | ... | ... | ... | ... | ... |

(a) Mean of 10 months.
(b) Mean of 11 months.
(c) Observations for 3 months.
(d) Observations for 10 months.

† Uncorrected for scale error.

C.

*class stations in India, &c., in the year 1909.*

| 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 in inches of mercury 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.—Eastern Bengal and Assam.** |
| ... | ... | ... | 92 | ... | ·691 | ... | .. | ... | 109 | ... | ... | 62·53 | ... | ... | 2·88 | Bishnath. |
| ... | ... | ... | 86 | ... | ·685 | ... | ... | ... | 104 | ... | ... | 72·06 | ... | ... | 4·75 | Borjuli. |
| ... | ... | ... | 91 | ... | ·729 | ... | ... | ... | 123 | ... | ... | 94·97 | ... | ... | 3·91 | Chandkhira. |
| ... | ... | ... | 93 | ... | ·689 | ... | ... | ... | 129 | ... | ... | 90·03 | ... | ... | 3·85 | Doom Dooma. |
| ... | ... | ... | 92 | ... | ·669 | ... | ... | ... | 128 | ... | ... | 98·58 | ... | ... | 3·57 | Dikom. |
| ... | ... | ... | 87 | ... | ·703 | ... | ... | ... | 104 | ... | ... | 57·38 | ... | ... | 2·30 | Golaghat. |
| ... | ... | ... | 93 | ... | ·688 | ... | ... | ... | 110 | ... | ... | 91·47 | ... | ... | 3·68 | Hailakandi. |
| ... | ... | ... | 90 | ... | ·711 | ... | ... | ... | 112 | ... | ... | 67·17 | ... | ... | 4·15 | Jorehat. |
| ... | ... | ... | 75 | ... | ·693 | ... | ... | ... | 97 | ... | ... | 57·50 | ... | ... | 2·45 | Messa. |
| ... | ... | ... | 91 | ... | ·600 | ... | ... | ... | 92 | ... | ... | 60·97 | ... | ... | 3·97 | Pancrihat. |
| ... | ... | ... | 87 | ... | ·734 | ... | ... | ... | 118 | ... | ... | 81·11 | ... | ... | 4·93 | Srimanga. |
| ... | ... | ... | 84 | ... | ·773 | ... | ... | ... | 109 | ... | ... | 82·32 | ... | ... | 3·65 | Brahmanbaria. |
| ... | ... | ... | 93 | ... | ·663 | ... | ... | ... | 123 | ... | ... | 143·36 | ... | ... | 7·70 | Dam Dim. |
| ... | ... | ... | 81 | ... | ·753 | ... | ... | ... | 87 | ... | ... | 65·81 | ... | ... | 4·20 | Goalundo. |
| ... | ... | ... | 77 | ... | ·696 | ... | ... | ... | 114 | ... | ... | 140·18 | ... | ... | 5·78 | Kalchini. |
| ... | ... | ... | 81 | ... | ·637 | ... | ... | ... | 129 | .. | ... | 153·49 | ... | ... | 7·94 | Nagrakata. |
| ... | ... | ... | 80 | ... | ·738 | ... | ... | ... | 83 | ... | ... | 58·59 | ... | ... | 7·05 | Pabna. |
| | | | | | | | | | | | | | | | | **III.—Bengal.** |
| ... | ... | ... | 79 | ... | ·656 | ... | ... | ... | 1 | ... | ... | 0·57 | ... | ... | 0·50 | Fraserganj. |
| | | | | | | | | | | | | | | | | **XI.—Central Provinces.** |
| ... | .. | ... | 68 | ... | ·559 | ... | ... | ... | 60 | ... | ... | 31·34 | ... | ... | 1·45 | Chhindwara. |
| | | | | | | | | | | | | | | | | **Hill Stations.** |
| ... | ... | ... | 69 | ... | ·583 | ... | ... | ... | 126 | ... | ... | 153·57 | ... | ... | 6·50 | Panighatta. |
| ... | ... | ... | 77 | ... | ·435 | ... | ... | ... | 136 | ... | ... | 168·94 | ... | ... | 6·08 | Kurseong. |
| ... | ... | ... | ... | ... | ... | ... | 4·3 | ... | 25 | ... | ... | 9·58 | 18·56 | −8·98 | 1·68 | Poo K. |
| ... | ... | ... | 39 | ... | ·141 | ... | 3·1 | ... | 17 | ... | ... | 4·92 | ... | ... | 0·80 | Kargil. |
| ... | ... | ... | 67 | ... | ·344 | ... | 2·2 | ... | 36 | ... | ... | 11·18 | ... | ... | 0·81 | Killa Drosh M. |
| ... | ... | ... | ... | ... | ... | ... | 1·7 | ... | 18 | 23·20 | −5·20 | 8·04 | 9·98 | −1·94 | 1·22 | Pishin. |
| ... | ... | ... | 51 | ... | ·247 | ... | ... | ... | 25 | 19·50 | +5·50 | 8·77 | 5·79 | +2·93 | 0·95 | Kalat. |
| | | | | | | | | | | | | | | | | **Extra India.** |
| ... | ... | ... | ... | ... | ... | ... | (e) 2·4 | ... | 14 | ... | ... | 7·18 | ... | ... | 1·40 | Ahwaz. |
| ... | ... | ... | 44 | ... | ·209 | ... | 2·5 | ... | 14 | ... | ... | 6·04 | ... | ... | 1·60 | Birjand N. |
| ... | ... | ... | (b) 80 | ... | (b) ·249 | ... | ... | ... | 103 | ... | ... | 38·76 | ... | ... | 2·38 | Chumbi O. |
| ... | ... | ... | 58 | ... | ·287 | ... | ... | ... | 40 | ... | ... | 18·60 | ... | ... | 1·30 | Kirmanshah. |
| ... | ... | ... | ... | ... | ... | ... | (b) 2·8 | ... | 8 | ... | ... | 2·42 | ... | ... | 0·38 | Koweit K. |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | 19 | ... | ... | 8·25 | ... | ... | 0·80 | Maidan. |

K = Wind observations for 362 days.
M = Wind observations for 364 days.
N = Wind observations for 201 days.
O = Wind observations for 139 days.

E = Mean of 8 months.
B = Do. 11 do.

Addenda sheet of 10 hrs. and 16 hrs. observations in Table A of 1909, Monthly Weather Review.

*Addenda sheet of 10 hrs. and 16 hrs. observations*

| Number of sub-division. | Station. | Elevation of bar-cistern above sea-level, in feet. | Pressure. | | | | | | Temperature of air. | | | | | | | | | | Temperature, Wet-bulb. | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Mean of 10 hrs. | Mean of 16 hr | Mean daily range. | Mean of daily mean pressures. | Departure from normal. | Mean reduced to S. L. and 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 |
| | **July 1909.** | | | | | | | | | | | | | | | | | | | | | |
| | Minicoy ... | 7 | 29·935 | 29·885 | ·050 | 29·917 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | **August 1909** | | | | | | | | | | | | | | | | | | | | | |
| | Mauritius ... | 181 | ... | ... | ... | 29·997 | —·024 | 30·126 | ... | ... | ... | 76·7 | 56·4 | 20·3 | ... | ... | 67·7 | — 0·3 | ... | ... | ... | 63·3 |
| | **September 1909.** | | | | | | | | | | | | | | | | | | | | | |
| | Mauritius ... | 181 | ... | ... | ... | 29·997 | —·007 | 30·127 | ... | ... | ... | 79·0 | 56·5 | 22·5 | ... | ... | 69·4 | — 0·2 | ... | ... | ... | 64·6 |
| | **October 1909.** | | | | | | | | | | | | | | | | | | | | | |
| | Mauritius ... | 181 | ... | ... | ... | 29·977 | +·024 | 30·107 | ... | ... | ... | 81·3 | 59·5 | 21·8 | ... | ... | 70·5 | — 1·6 | ... | ... | ... | 64·5 |
| | **December 1909.** | | | | | | | | | | | | | | | | | | | | | |
| | Mauritius ... | 181 | ... | ... | ... | 29·854 | +·032 | 29·980 | ... | ... | ... | 89·3 | 65·6 | 23·7 | ... | ... | 77·3 | — 0·7 | ... | ... | ... | 70·8 |

*in Table A of 1909, Monthly Weather Review.*

| Vapour tension in inches of mercury. | | | | | Humidity. | | | | | Cloud. | | | | Wind direction. | | | | | | | | | | Wind steadiness. | | Wind velocity. | | Rainfall. | | Station. | Number of sub-division. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | Total number of 10 hrs. and 16 hrs. winds, from | | | | | | | | | | | | | | | | | |
| From minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | From minimum. | Mean 10 hrs. | Mean 16 hrs. | Mean of daily means. | Departure from normal. | Mean 10 hrs. | Mean 16 hrs. | Mean of two previous columns. | Departure from normal. | Calm. | N. | N.E. | E. | S.E. | S. | S.W. | W. | N.W. | Mean wind direction. | Normal mean wind direction of month. | Average percentage. | Normal percentage. | Mean velocity in miles per diem. | Normal. | Total rainfall for the month. | Heaviest rainfall during the month. | | |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| | | | | | | | | | | | | | | | | | | | | | | | | | % | % | | | | | JULY 1909. | |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 6·5 | 67 | 6·5 | ... | ... | ... | ... | ... | ... | ... | 8 | 31 | 19 | S34°W | ... | 87 | ... | 375 | ... | 4·82 | 0·94 | Minicoy ... | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | AUGUST 1909. | |
| ... | ... | ... | ·516 | + ·008 | ... | ... | ... | 76 | + 1 | ... | ... | 5·9 | + 0·4 | ... | ... | ... | ... | ... | ... | ... | ... | ... | S69°E | S68°E | ... | ... | 258 | 236 | 2·39 | 0·84 | Mauritius ... | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | SEPTEMBER 1909. | |
| ... | ... | ... | ·534 | + ·012 | ... | ... | ... | 74 | + 2 | ... | ... | 5·5 | − 0·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | S83°E | S71°E | ... | ... | 254 | 288 | 2·25 | 0·55 | Mauritius ... | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | OCTOBER 1909. | |
| ... | ... | ... | ·518 | − ·034 | ... | ... | ... | 69 | − 1 | ... | ... | 6·5 | + 0·8 | ... | ... | ... | ... | ... | ... | ... | ... | ... | S73°E | S78°E | ... | ... | 257 | 264 | 1·39 | 0·37 | Mauritius ... | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | DECEMBER 1909. | |
| ... | ... | ... | ·644 | − ·032 | ... | ... | ... | 69 | − 2 | ... | ... | 6·0 | − 0·1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | S82°E | N89°E | ... | ... | 229 | 259 | 1·97 | 1·19 | Mauritius ... | |

Addenda sheet of 8 hrs. observations in Table B of 1909, Monthly Weather Review.

*Addenda sheet of 8 hrs. observations in Table**

| Number of sub-division. | Station. | Elevation 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 recorded during month. | Date. | Lowest pressure recorded during 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 maximum and mean 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 |
| | **January 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Kerman | ... | ... | ... | ... | ... | ... | ... | ... | ... | 31·6 | 53·1 | ... | 26·6 | ... | 39·8 | ... | 26·5 | 67·3 | 7th | 14·2 | 11th | 53·1 |
| | Ispahan‡ (*b*) | 5,817 | 24·229 | ... | ... | 24·600 | 11th | 23·950 | 14th | ·650 | 26·7 | 43·8 | —2·7 | 24·1 | +0·9 | 33·9 | —0·9 | 19·7 | 50·4 | 4 days | 18·9 | 17th | 31·5 |
| | Beirut (*d*) | ... | ... | ... | 29·931 | ... | ... | ... | ... | ... | 54·5 | 62·5 | ... | 50·4 | ... | 56·5 | ... | 12·1 | 21·1 | 26th | 7·9 | 8th | 13·2 |
| | **February 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Ispahan‡ (*b*) | 5,817 | 24·230 | ... | ... | 24·450 | 8th | 24·040 | 25th | ·410 | 32·4 | 54·7 | +0·5 | 30·4 | +1·3 | 42·5 | +0·9 | 24·3 | 63·4 | 21st | 20·2 | 3rd | 43·2 |
| | **March 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Amini Divi | 13 | 29·941 | —·014 | 29·882 | 30·007 | 27th | 29·893 | 12th | ·114 | 83·5 | 91·1 | +3·1 | 76·6 | —1·6 | 83·9 | +0·8 | 14·5 | 93·7 | 29th | 72·7 | 1st & 17th | 21·0 |
| | **April 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Car Nicobar | 25 | 29·893 | ... | 29·845 | 29·924 | 28th | 29·826 | 29th | ·098 | 82·1 | 87·5 | ... | 76·6 | ... | 82·1 | ... | 10·9 | 89·7 | 21st & 24th | 73·1 | 2nd | 16·6 |
| | **May 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Car Nicobar | 25 | 29·819 | ... | 29·771 | 29·864 | 18th | 29·774 | 23rd | ·090 | 81·7 | 87·2 | ... | 76·7 | ... | 82·0 | ... | 10·5 | 90·8 | 7th | 74·1 | 10th | 16·7 |
| | **June 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Car Nicobar | 25 | 29·803 | ... | 29·755 | 29·847 | 13th | 29·774 | 19th | ·073 | 81·4 | 85·7 | ... | 77·3 | ... | 81·5 | ... | 8·4 | 89·2 | 1st | 72·3 | 29th | 16·9 |
| | **July 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Minicoy | 7 | 29·920 | ... | ... | 30·003 | 22nd | 29·852 | 8th | ·151 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| | Kerman | ... | ... | ... | ... | ... | ... | ... | ... | ... | 77·5 | 99·0 | ... | 61·9 | ... | 80·5 | ... | 37·1 | 110·0 | 4th | 51·5 | 23rd & 31st | 58·5 |
| | **September 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Amini Divi | 13 | 29·917 | —·09 | 29·858 | 29·980 | 28th | 29·800 | 5th | ·180 | 81·7 | 87·1 | +2·2 | 76·8 | —0·4 | 82·0 | +0·9 | 10·3 | 89·7 | 25th | 74·9 | 8th | 14·8 |
| | Beirut (*d*) | ... | ... | ... | 29·856 | ... | ... | ... | ... | ... | 80·7 | 86·6 | ... | 72·9 | ... | 79·7 | ... | 13·7 | 90·5 | 1st | 68·0 | 18th | 22·5 |
| | **October 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Amini Divi | 13 | 29·930 | ... | 29·871 | 29·991 | 25th | 29·860 | 18th | ·131 | 82·2 | 87·0 | +1·8 | 76·9 | +0·4 | 82·0 | +1·1 | 10·1 | 89·2 | 7th & 8th | 71·6 | 17th | 17·6 |
| | **November 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Car Nicobar† | 25 | 29·857 | ... | 29·809 | 29·961 | 15th | 29·775 | 10th | ·186 | 78·9 | 85·1 | ... | 75·2 | ... | 80·1 | ... | 9·9 | 87·6 | 17th | 72·5 | 13th & 20th | 15·1 |
| | Amini Divi | 13 | 29·968 | +·007 | 29·909 | 30·031 | 10th | 29·909 | 20th | ·122 | 82·3 | 87·8 | +2·8 | 75·2 | —0·3 | 81·5 | +1·3 | 12·6 | 90·4 | 2nd | 71·0 | 17th | 19·4 |
| | **December 1909.** | | | | | | | | | | | | | | | | | | | | | | |
| | Kailang | 10,087 | 20·991 | ... | 20·946 | 21·146 | 1st | 20·809 | 14th | ·337 | 20·0 | 39·2 | —0·7 | 17·0 | —1·9 | 28·1 | —1·3 | 22·2 | 54·7 | 3rd | 1·9 | 21st | 52·8 |

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 uncorrected. † Mean of 29 days.
(*d*) 8½ hrs. observations. ‡ 7 hrs. observations.

# ANNUAL SUMMARY, 1909.

## *B of 1909, Monthly Weather Review.*

| 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 in 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 in inches of mercury. | 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 for period. | Normal rainfall for period. | Departure from normal. | Heaviest rainfall during month. | Stations. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 26 | 27 | 28 | 29 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **January 1909.** |
| ... | 2 | 5 | 7 | 4 | 5 | 6 | ... | 2 | S58°E | ... | 2·3 | ... | ... | 29 | ... | (a) 65 | ... | (a) ·145 | ... | 3·0 | ... | ... | ... | No | rain | gauge | ... | ... | ... | ... | ... | Kerman. |
| 7 | 1 | ... | ... | ... | 1 | 2 | 5 | ... | S81°W | S79°W | 1·8 | 3·1 | −1·3 | 38 | ... | (f) 78 | ... | (f) ·121 | ... | 2·7 | ... | 2 | ... | ... | 1·87 | 0·26 | +1·61 | (g) 2·90 | 0·80 | +2·10 | 0·95 | Ispahan.§ |
| 7 | ... | 1 | ... | 11 | 1 | 9 | 2 | ... | S | ... | ... | ... | ... | 46 | ... | 71 | ... | ·303 | ... | 5·7 | ... | 8 | ... | ... | 2·75 | ... | ... | (g) 13·08 | ... | ... | 0·54 | Beirut. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **February 1909.** |
| 11 | 1 | 1 | 1 | 1 | 2 | 2 | 4 | ... | S56°W | S82°W | 3·0 | 4·6 | −1·6 | 13 | ... | 80 | ... | ·154 | ... | 1·8 | ... | 4 | ... | ... | 1·19 | 0·17 | +1·02 | (h) 4·09 | 0·97 | +3·12 | 0·42 | Ispahan. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **March 1909.** |
| 5 | 8 | 2 | 1 | ... | ... | ... | 1 | 14 | N25°W | ... | ... | ... | ... | 68 | ... | 73 | −1 | ·845 | − 7 | 3·2 | +0·2 | 0 | ... | ... | 0 | 0 | 0 | (i) 3·50 | 0·51 | +2·99 | 0 | Amini Divi. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **April 1909.** |
| ... | ... | ... | 2 | 24 | 3 | ... | ... | ... | S44°E | ... | 3·0 | ... | ... | 97 | ... | 82 | ... | ·903 | ... | 9·5 | ... | 10 | ... | ... | 7·57 | ... | ... | (j) 20·60 | ... | ... | 2·52 | Car Nicobar.‖ |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **May 1909.** |
| ... | ... | ... | 1 | 1 | 2 | 22 | 1 | ... | S40°W | ... | 2·5 | ... | ... | 85 | ... | 86 | ... | ·939 | ... | 9·6 | ... | 20 | ... | ... | 14·49 | ... | ... | (k) 14·49 | ... | ... | 2·61 | Car Nicobar‡. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **June 1909.** |
| ... | ... | ... | ... | ... | ... | 25 | ... | ... | S45°W | ... | 4·4 | ... | ... | 100 | ... | 88 | ... | ·952 | ... | 10·0 | ... | 19 | ... | ... | 10·00 | ... | ... | (l) 24·49 | ... | ... | 2·34 | Car Nicobar. H. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **July 1909.** |
| ... | ... | ... | ... | ... | ... | 7 | 21 | 3 | S84°W | N87°W | 15·6 | 17·0 | −1·4 | 90 | +3 | ... | ... | ... | ... | 6·3 | +0·1 | 12 | ... | ... | 4·82 | 6·66 | −1·84 | (m) 14·75 | 21·66 | −6·91 | 0·94 | Minicoy. |
| ... | 6 | 3 | 2 | 5 | 8 | 4 | 1 | 2 | S22°E | ... | 4·0 | ... | ... | 19 | ... | 37 | ... | ·332 | ... | 0 | ... | ... | ... | ... | No | rain | gauge | ... | ... | ... | ... | Kerman. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **September 1909.** |
| ... | 2 | ... | ... | ... | ... | 2 | 4 | 22 | N53°W | ... | ... | ... | ... | 87 | ... | 78 | −4 | ·843 | −·037 | 6·0 | −0·3 | 8 | ... | ... | 1·77 | 5·54 | −3·77 | (n) 48·39 | 37·73 | +10·66 | 0·25 | Amini Divi. |
| 4 | 1 | 3 | ... | ... | ... | 22 | ... | ... | S47°W | ... | ... | ... | ... | 60 | ... | 60 | ... | ·643 | ... | 3·0 | ... | 1 | ... | ... | 0·27 | ... | ... | (n) 0·27 | ... | ... | 0·19 | Beirut. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **October 1909.** |
| 5 | 14 | ... | ... | ... | ... | ... | ... | 12 | N21°W | ... | ... | ... | ... | 81 | ... | 78 | −4 | ·855 | −·031 | 6·2 | +0·1 | 6 | ... | ... | 4·05 | 6·01 | −1·96 | (o) 52·44 | 43·74 | +8·70 | 2·00 | Amini Divi. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **November 1909.** |
| ... | 4 | 4 | 1 | 2 | 2 | 12 | ... | ... | S31°W | ... | (f) 4·7 | ... | ... | 24 | ... | 89 | ... | ·874 | ... | 8·8 | ... | 14 | ... | ... | 11·56 | ... | ... | (p) 78·91 | ... | ... | 2·82 | Car Nicobar‡. |
| 8 | 6 | ... | ... | ... | ... | 1 | 2 | 13 | N39°W | ... | ... | ... | ... | 63 | ... | 74 | −4 | ·816 | −·042 | 3·5 | −1·1 | 4 | ... | ... | 3·33 | 1·58 | +1·75 | (p) 55·77 | 45·32 | +10·45 | 1·24 | Amini Divi. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **December 1909.** |
| ... | 2 | ... | 5 | 13 | 4 | 3 | 1 | 3 | S39°E | ... | 0·8* | 0·9 | −0·1 | 45 | ... | 66 | ... | ·079 | ... | 4·7 | ... | 5 | ... | ... | 1·44 | 1·08 | +0·36 | (q) 1·44 | 1·08 | +0·36 | 0·80 | Kailang. |

(l) Total rainfall from 1st May to 30th June 1909.
(m) " " " " to 31st July 1909.
(n) " " " " to 30th September 1909.
(o) " " " " to 31st October 1909.
(p) " " " " to 30th November 1909.
(q) " " " " to 31st December 1909.
* Uncorrected for scale error.

(g) Total rainfall from 1st December 1908 to 31st January 1909.
(h) " " " " to 28th February 1909.
(i) " " " " to 31st March 1909.
(j) " " " " to 30th April 1909.
(k) " " " " to 31st May 1909.

(a) Mean of 16 days.
(f) Mean of 28 days.

‡ wind observations less 4.
H " " " 5.
§ " " " 15.
‖ " " " 1.

Addenda sheet of 8 hrs. Observations in Table C. of 1909,
Monthly Weather Review.

*Addenda sheet of 8 hrs. observations in Table*

| Number of sub-division. | Station. | Temperature of air. | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Mean of 8 hrs. temperature. | Mean maximum. | Departure from normal. | Mean minimum. | Departure from normal. | Monthly mean of mean maximum and minimum. | Departure from normal. | Mean daily range of temperature. | Highest temperature observed during month. | Date. | Lowest temperature observed during month. | Date. | Absolute range during month. |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| | **March 1909.** | | | | | | | | | | | | | |
| | Kirmanshah | 47·4 | 58·3 | ... | 39·0 | ... | 48·7 | ... | 19·3 | 72·5 | 17th and 30th. | 30·0 | 4th | 42·5 |
| | **April 1909.** | | | | | | | | | | | | | |
| | Koweit | ... | 84·4* | ... | 67·9 | ... | 76·2 | ... | 16·5 | 95·2 | 7th | 0·6 | 10th and 11th. | 34·6 |
| | **June 1909.** | | | | | | | | | | | | | |
| | Kirmanshah | 69·7 | 87·1 | ... | 53·3 | ... | 72·7 | ... | 28·8 | 92·6 | 24th | 52·6 | 12th and 13th. | 40·0 |
| | **November 1909.** | | | | | | | | | | | | | |
| | Birjand | 50·9 | 68·1 | ... | 42·3 | ... | 55·2 | ... | 25·8 | 75·4 | 14th | 31·7 | 29th | 43·7 |

* Mean of 29 days.

## C of 1909, *Monthly Weather Review.*

| 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 in miles per hour. | Normal. | Percentage 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 in inches of mercury. | 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. | Normal rainfall for period. | Departure from normal of period. | Heaviest rainfall during month. | Station. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16 | 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 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **March 1909.** |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 66 | ... | ·221 | ... | ... | ... | 9 | ... | ... | 3·24 | ... | ... | † (A) 11·13 | ... | ... | 1·16 | Kirmanshah. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **April 1909.** |
| ... | ... | 5 | ... | 7 | ... | 2 | 4 | 12 | N44°W | ... | ... | ... | ... | 27 | ... | ... | ... | ... | ... | 3·4 | ... | 0 | ... | ... | 0·12 | ... | ... | ‡ 1·45 | ... | ... | 0·08 | Koweit. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **June 1909.** |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | .. | ... | 46 | ... | ·335 | ... | ... | ... | 0 | ... | ... | 0·06 | ... | ... | †† 0·94 | ... | ... | 0·06 | Kirmanshah. |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **November 1909.** |
| ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | §39 | ... | §·152 | ... | 1·9 | ... | 0 | ... | ... | 0 | ... | ... | ¶ 0 | ... | ... | 0 | Birjand. |

§ Mean of 28 days. (A) Snow water included.

† Total rainfall from 1st December 1908, to 31st March 1909.
‡ " " 1st " " 30th April 1909.
†† " " 1st May " 30th June 1909.
¶ " " 1st " " 30th November 1909.

# Corrigenda in the India Monthly Weather Reviews for the years 1902—1906.

## TABLES I AND II.

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| lxxxiv | May 1902 . | I | Allahabad . . | Pressure . . | 5, 6 and 7 | *For* "29·365, —·002 and 29·624" *read* "29·358, —·009 and 29·617," respectively. |
| civ | June „ . | I | Do. . . | Do. . . | 5, 6, 7, 8 and 10. | *For* "29·285, + ·033, 29·542, 29·334 and 29·159" *read* "29·272, + ·020, 29·529, 29·371 and 29·146," respectively. |
| cxxviii | July „ . | I | Do. . . | Do. . . | Do. . | *For* "29·225, — ·020, 29·486, 29·381 and 29·022" *read* "29·212, — ·033, 29·473, 29·368 and 29·009," respectively. |
| clii | August „ | I | Do. . . | Do. . . | Do. . | *For* "29·336, + ·033, 29·598, 29·413 and 29·220" *read* "29·323, + ·020, 29·585, 29·400 and 29·207," respectively. |
| clxxii | September „ . | I | Do. . . | Do. . . | Do. . | *For* "29·430, + ·008, 29·694, 29·616 and 29·267" *read* "29·417, — ·005, 29·681, 29·603 and 29·254," respectively. |
| cxcii | October „ . | I | Do. . . | Do. . . | Do. . | *For* "29·701, + ·104, 29·971, 29·782, and 29·615" *read* "29·688, + ·091, 29·958, 29·769 and 29·602," respectively. |
| ccxii | November „ . | I | Do. . . | Do. . . | Do. . | *For* "29·790, + ·062, 30·069, 29·894 and 29·670" *read* "29·777, + ·049, 30·056, 29·881 and 29·657," respectively. |
| ccxxxii | December „ . | I | Do. . . | Do. . . | Do. . | *For* "29·795, ?, 30·083, 29·907 and 29·704" *read* "29·782, — ·012, 30·070, 29·894 and 29·691," respectively. |
| cclii | Annual „ . | I | Do. . . | Do. . . | 5 to 10 . | *For* "29·539, +·017, 29·809, 29·907, 29·022 and ·885" *read* "29·531, + ·009, 29·801, 29·904, 29·009 and ·895," respectively. |
| xcvi | May „ . | II | Do. . . | Do. . . | 4 to 9 . | *For* "29·374, 29·249, ·125, 29·312, — ·005 and 29·562" *read* "29·366, 29·242, ·124, 29·304, — ·013 and 29·555," respectively. |
| cxvi | June „ . | II | Do. . . | Do. . . | 4, 5 and 7 to 9. | *For* "29·288, 29·180, 29·236, + ·032 and 29·487" *read* "29·275, 29·167, 29·223, + ·019 and 29·474," respectively. |
| cxl | July „ . | II | Do. . . | Do. . . | Do. . | *For* "29·234, 29·133, 29·186, — ·021 and 29·443" *read* "29·221, 29·120, 29·173, — ·034 and 29·430," respectively. |
| clxiv | August „ . | II | Do. . . | Do. . . | Do. . | *For* "29·348, 29·246, 29·301, + ·028 and 29·560" *read* "29·335, 29·233, 29·288, + ·015 and 29·547," respectively. |
| clxxxiv | September „ . | II | Do. . . | Do. . . | Do. . | *For* "29·441, 29·326, 29·387, + ·011 and 29·647" *read* "29·428, 29·313, 29·374, —·002 and 29·634," respectively. |
| cciv | October „ . | II | Do. . . | Do. . . | Do. . | *For* "29·712, 29·592, 29·646, + ·091 and 29·909" *read* "29·699, 29·579, 29·633, + ·078 and 29·896," respectively. |
| ccxxiv | November „ . | II | Do. . . | Do. . . | Do. . | *For* "29·803, 29·682, 29·732, + ·047, and 30·002" *read* "29·790, 29·669, 29·719, + ·034 and 29·989," respectively. |
| ccxliv | December „ . | II | Do. . . | Do. . . | Do. . | *For* "29·822, 29·700, 29·749, — ·004, and 30·024" *read* "29·809, 29·687, 29·736, — ·017 and 30·011," respectively. |
| cclxiv | Annual „ . | II | Do. . . | Do. . . | Do. . | *For* "29·554, 29·435, 29·490, + ·011, 29·752" *read* "29·546, 29·427, 29·482, + ·003 and 29·744," respectively. |
| iv | January 1903 . | I | Do. . . | Do. . . | 5, 6, 7, 8 and 10. | *For* "29·799, + ·026, 30·087, 29·934 and 29·679" *read* "29·786, + ·013, 30·074, 29·921 and 29·666," respectively. |
| xxiv | February „ . | I | Do. . . | Do. . . | Do. . | *For* "29·787 ?, + ·080 ?, 30·071 ?, 29·949 and 29·624" *read* "29·774, + ·067, 30·058, 29·936 and 29·611," respectively. |

# Corrigenda in the India Monthly Weather Reviews for the years 1902—1906.

## TABLES I AND II—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cxxiv | July 1903 . | I | Allahabad . . | Pressure . . | 5, 6, 7, 8 and 10. | *For* "29·211, — ·034, 29·469, 29·323 and 29·126" *read* "29·212, — ·033, 29·470, 29·324 and 29·127," respectively. |
| cxliv | August „ . | I | Do. . . | Do. . . | Do. . | *For* "29·291, — ·012, 29·554, 29·409 and 29·117" *read* "29·292, — ·011, 29·555, 29·410 and 29·118," respectively. |
| lxiv | September „ . | I | Do. . . | Do. . . | Do. . | *For* "29·417, — ·005, 29·680, 29·556 and 29·204" *read* "29·418, — ·004, 29·681, 29·557 and 29·205," respectively. |
| clxxxiv | October „ . | I | Do. . . | Do. . . | Do. . | *For* "29·519, — ·078, 29·787, 29·659 and 29·322" *read* "29·520, —·077, 29·788, 29·660 and 29·323," respectively. |
| ccciv | November „ . | I | Do. . . | Do. . . | Do. . | *For* "29·720, — ·008, 29·999, 29·821 and 29·646" *read* "29·721, — ·007, 30·000, 29·822 and 29·647" respectively. |
| cccxxiv | December „ . | I | Do. . . | Do. . . | Do. . | *For* "29·782, — ·012, 30·069, 29·886 and 29·662" *read* "29·783, — ·011, 30·070, 29·887 and 29·663," respectively. |
| cccxliv | Annual „ . | I | Do. . . | Do . . . | Do. . | *For* "29·527, + ·004, 29·797, 29·949 and ·833" *read* "29·525, + ·003, 29·796, 29·936 and ·820," respectively |
| xvi | January „ . | II | Do. . . | Do. . . | 4, 5 and 7 to 9. | *For* "29·831, 29·708, 29·753, + ·024 and 30·028" *read* "29·818, 29·689, 29·740, + ·011 and 30·015," respectively. |
| xxxvi | February „ . | II | Do. . . | Do. . . | Do. . | *For* "29·816, 29·691, 29·745, + ·068 and 30·016" *read* "29·803, 29·678, 29·732, + ·055 and 30·003," respectively. |
| cxxxvi | July „ . | II | Do. . . | Do. . . | Do. . | *For* "29·216, 29·098, 29·159, — ·048, and 29·411" *read* "29·217, 29·099, 29·160, — ·047 and 29·412," respectively. |
| clvi | August „ . | II | Do. . . | Do. . . | Do. . | *For* "29·306, 29·193, 29·252, — ·021 and 29·510" *read* "29·304, 29·194, 29·253, — ·020 and 29·511," respectively. |
| clxxvi | September „ . | II | Do. . . | Do. . . | Do. . | *For* "29·430, 29·312, 29·374, — ·003, and 29·634" *read* "29·431, 29·313, 29·375, — ·001 and 29·635," respectively. |
| cxcvi | October „ . | II | Do. . . | Do. . . | Do. . | *For* "29·534, 29·431, 29·476, — ·079 and 29·741" *read* "29·535, 29·432, 29·477, — ·078 and 29·742," respectively. |
| ccxvi | November „ . | II | Do. . . | Do. . . | Do. . | *For* "29·739, 29·630, 29·674, — ·011, and 29·944" *read* "29·740, 29·631, 29·675, — ·010 and 29·945," respectively. |
| cccxxvi | December „ . | II | Do. . . | Do. . . | Do. . | *For* "29·809, 29·688, 29·736, — ·017 and 30·012" *read* "29·810, 29·689, 29·737, — ·016 and 30·013," respectively. |
| cclvi | Annual „ . | II | Do. . . | Do. . . | Do. . | *For* "29·544, 29·423, 29·479, 0 and 29·741" *read* "29·542, 29·421, 29·477, — ·002 and 29·739," respectively. |
| iv | January 1904 . | I | Do. . . | Do. . . | 5, 6, 7, 8 & 10. | *For* "29·782, + ·009, 30·069, 29·970 and 29·631" *read* "29·784, + ·011, 30·071, 29·972 and 29·633" respectively. |
| xxiv | February „ . | I | Do. . . | Do. . . | Do. . | *For* "29·715, + ·008, 29·998, 29·819 and 29·599" *read* "29·717, + ·010, 30·000, 29·821 and 29·601," respectively. |
| xliv | March „ . | I | Do. . . | Do. . . | Do. . | *For* "29·592, —·013, 29·864, 29·660 and 29·499" *read* "29·594, —·011, 29·866, 29·662 and 29·501," respectively. |
| lxiv | April „ . | I | Do. . . | Do. . . | Do. . | *For* "29·399, —·081, 29·661, 29·515 and 29·211" *read* "29·402, —·078, 29·664, 29·518 and 29·214," respectively. |

# Corrigenda in the India Monthly Weather Reviews for the years 1902—1906.

## TABLES I AND II—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| lxxxiv | May 1904 | I | Allahabad | Pressure | 5, 6, 7, 8 & 10. | *For* "29·361, —·006, 29·621, 29·498 and 29·250" *read* "29·364, —·003, 29·624, 29·491 and 29·253," respectively. |
| civ | June " | I | Do. | Do. | Do. | *For* "29·214, —·038, 29·471, 29·361 and 29·129" *read* "29·217, —·035, 29·474, 29·364 and 29·132," respectively. |
| cxxiv | July " | I | Do. | Do. | Do. | *For* "29·218, —·027, 29·480, 29·331 and 29·124" *read* "29·222, —·023, 29·484, 29·335 and 29·128" respectively. |
| cxliv | August " | I | Do. | Do. | Do. | *For* "29·289, —·014, 29·552, 29·401 and 29·152" *read* "29·293, —·010, 29·556, 29·405 and 29·156," respectively. |
| clxiv | September " | I | Do. | Do. | Do. | *For* "29·440, +·018, 29·705, 29·638 and 29·343" *read* "29·444, +·022, 29·709, 29·642 and 29·347" respectively. |
| clxxxiv | October " | I | Do. | Do. | Do. | *For* "29·609, +·012, 29·879, 29·701 and 29·442" *read* "29·614, +·017, 29·884, 29·706 and 29·447," respectively. |
| ccix | November " | I | Do. | Do. | Do. | *For* "29·753, +·025, 30·033, 29·913 and 29·649" *read* "29·758, +·030, 30·038, 29·918 and 29·654," respectively. |
| ccxxiv | December " | I | Do. | Do. | Do. | *For* "29·822, +·028, 30·107, 30·024 and 29·654" *read* "29·827, +·033, 30·112, 30·029 and 29·659" respectively. |
| ccxliv | Annual " | I | Do. | Do. | 5 to 10. | *For* "29·516, —·007, 29·787, 30·024, 29·124 and ·900" *read* "29·520, —·003, 29·790, 30·0.9, 29·128 and ·901" respectively. |
| xvi | January " | II | Do. | Do. | 4, 5, & 7 to 9. | *For* "29·814, 29·695, 29·741, +·015 and 30·017" *read* "29·816, 29·697, 29·743, +·017 and 30·019," respectively. |
| xxxvi | February " | II | Do. | Do. | Do. | *For* "29·744, 29·628, 29·675, +·007 and 29·946" *read* "29·746, 29·630, 29·677, +·009 and 29·948," respectively. |
| lvi | March " | II | Do. | Do. | Do. | *For* "29·613, 29·481, 29·538, —·010 and 29·801" *read* "29·615, 29·483, 29·540, —·008 and 29·803," respectively. |
| lxxvi | April " | II | Do. | Do. | Do. | *For* "29·419, 29·287, 29·346, —·072 and 29·598" *read* "29·422, 29·290, 29·349, —·069 and 29·601," respectively. |
| xcvi | May " | II | Do. | Do. | Do. | *For* "29·369, 29·240, 29·302, —·012 and 29·553" *read* "29·372, 29·243, 29·305, —·009 and 29·556," respectively. |
| cxvi | June " | II | Do. | Do. | Do. | *For* "29·219, 29·111, 29·168, —·032 and 29·420" *read* "29·222, 29·114, 29·171, —·029 and 29·423," respectively. |
| cxxxvi | July " | II | Do. | Do. | Do. | *For* "29·227, 29·136, 29·186, —·019 and 29·444" *read* "29·231, 29·140, 29·190, —·015 and 29·448," respectively. |
| clvi | August " | II | Do. | Do. | Do. | *For* "29·304, 29·206, 29·258, —·008 and 29·518" *read* "29·308, 29·210, 29·262 —·004 and 29·522," respectively. |
| clxxvi | September " | II | Do. | Do. | Do. | *For* "29·453, 29·344, 29·400, +·020 and 29·660" *read* "29·457, 29·348, 29·404, +·024 and 29·664," respectively. |
| cxcvi | October " | II | Do. | Do. | Do. | *For* "29·620, 29·514, 29·560, +·004 and 29·822" *read* "29·625, 29·519, 29·565, +·009 and 29·827," respectively. |
| ccxvi | November " | II | Do. | Do. | Do. | *For* "29·766, 29·667, 29·706, +·025 and 29·977" *read* "29·771, 29·672, 29·711, +·030 and 29·982," respectively. |

# Corrigenda in the India Monthly Weather Reviews for the years 1902—1906.

## TABLES I AND II—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| coxxxvi | December 1904 . | II | Allahabad . . | Pressure . . | 4, 5, & 7 to 9. | *For* " 29·846, 29·735, 29·778, +·029 and 30·054 " *read* " 29·851, 29·740, 29·783, +·034 and 30·059," respectively. |
| cclvi | Annual " . | II | Do. . . | Do. . . | 4 to 9. | *For* " 29·533, 29·420, ·113, 29·472,—·004 and 29·734 " *read* " 29·536, 29·424, ·112, 29·475,—·001 and 29·738," respectively. |
| iv | January 1905 . | I | Do. . . | Do. . . | 4, 5, 6, 7 and 9. | *For* " 29·785, +·012, 30·074, 30·006 and 29·625 " *read* " 29·790, +·017, 30·079, 30·011 and 29·630," respectively. |
| xxiv | February " . | I | Do. . . | Do. . . | Do. . | *For* " 29·773, +·066, 30·061, 29·895 and 29·609 " *read* " 29·778, +·071, 30·066, 29·900 and 29·614," respectively. |
| xliv | March " . | I | Do. . . | Do. . . | Do. . | *For* " 29·630, +·025, 29·904, 29·923 and 29·448 " *read* " 29·635, +·030, 29·909, 29·928 and 29·453," respectively. |
| lxiv | April " . | I | Do. . . | Do. . . | Do. . | *For* " 29·554, +·074, 29·821, 29·679 and 29·412 " *read* " 29·560, +·080, 29·827, 29·685 and 29·418," respectively. |
| lxxxiv | May " . | I | Do. . . | Do. . . | Do. . | *For* " 29·389, +·022, 29·649, 29·525, and 29·263 " *read* " 29·395, +·028, 29·655, 29·531 and 29·269," respectively. |
| civ | June " . | I | Do. . . | Do. . . | Do. . | *For* " 29·241, —·011, 29·497, 29·341 and 29·158 " *read* " 29·247, —·005, 29·503, 29·347 and 29·164," respectively. |
| cxxiv | July " . | I | Do. . . | Do. . . | Do. . | *For* " 29·241, —·004, 29·502, 29·351 and 29·111 " *read* " 29·248, +·003, 29·509, 29·358 and 29·118 " respectively. |
| cxlvi | August " . | I | Do. . . | Do. . . | Do. . | *For* " 29·303, 0, 29·565, 29·365 and 29·205 " *read* " 29·310, +·007, 29·572, 29·372 and 29·212," respectively. |
| clxviii | September " . | I | Do. . . | Do. . . | Do. . | *For* " 29·397, —·025, 29·663, 29·518 and 29·256 " *read* " 29·404, —·018, 29·670, 29·525 and 29·263," respectively. |
| clxxxviii | October " . | I | Do. . . | Do. . . | Do. . | *For* " 29·587, —·010, 29·857, 29·699 and 29·456 " *read* " 29·595, —·002, 29·865, 29·707 and 29·464," respectively. |
| ccviii | November " . | I | Do. . . | Do. . . | Do. . | *For* " 29·771, +·043, 30·049, 29·863 and 29·580 " *read* " 29·779, +·051, 30·057, 29·871 and 29·588," respectively. |
| ccxxviii | December " . | I | Do. . . | Do. . . | Do. . | *For* " 29·767, —·027, 30·054, 29·880 and 29·639 " *read* " 29·775, —·019, 30·062, 29·888 and 29·647," respectively. |
| ccxlviii | Annual " . | I | Do. . . | Do. . . | 4 to 9. | *For* " 29·537, +·014, 29·808, 30·006, 29·111 and ·895" *read* " 29·543, +·020, 29·815, 30·011, 29·118 and ·893," respectively. |
| xvi | January " . | II | Do. . . | Do. . . | 4, 5 & 7 to 9. | *For* " 29·816, 29·697, 29·743, +·017 and 30·022 " *read* " 29·821, 29·702, 29·748, +·022 and 30·027," respectively. |
| xxxvi | February " . | II | Do. . . | Do. . . | Do. . | *For* " 29·801, 29·679, 29·729, +·061 and 30·006 " *rea* " 29·806, 29·684, 29·734, +·066 and 30·011," respectively. |
| lvi | March " . | II | Do. . . | Do. . . | Do. . | *For* " 29·649, 29·522, 29·577, +·029 and 29·843 " *read* " 29·654, 29·527, 29·582, +·034 and 29·848," respectively. |
| xxvi | April " . | II | Do. . . | Do. . . | Do. . | *For* " 29·566, 29·434, 29·493, +·075 and 29·751 " *read* " 29·572, 29·440, 29·499, +·081 and 29·757," respectively. |
| xcvi | May " . | II | Do. . . | Do. . . | Do. . | *For* " 29·392, 29·269, 29·327, +·013 and 29·580 " *read* " 29·398, 29·275, 29·333, +·019 and 29·586," respectively. |

# Corrigenda in the India Monthly Weather Reviews for the years 1902-1906.

## TABLES I AND II—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cxvi | June 1905 . | II | Allahabad . . | Pressure . . | 4, 5 & 7 to 9 | *For* "29·247, 29·135, 29·194,—·006 and 29·442" *read* "29·253, 29·141, 29·200, 0 and 29·448", respectively. |
| cxxxvi | July „ . | II | Do. . . | Do. . . | Do. . | *For* "29·250, 29·157, 29·208, +·003 and 29·465" *read* "29·257, 29·164, 29·215, +·010 and 29·472", respectively. |
| clxi | August „ . | II | Do. . . | Do. . . | Do. . | *For* "29·319, 29·223, 29·274, +·008 and 29·534" *read* "29·326, 29·230, 29·281, +·015 and 29·541", respectively. |
| clxxx | September „ . | II | Do. . . | Do. . . | Do. . | *For* "29·409, 29·303, 29·358, —·022 and 29·618" *read* "29·416, 29·310, 29·365, —·015 and 29·625", respectively. |
| cc | October „ . | II | Do. . . | Do. . . | Do. . | *For* "29·598, 29·489, 29·537, —·019 and 29·798" *read* "29·606, 29·497, 29·545, —·011 and 29·806", respectively. |
| ccx | November „ . | II | Do. . . | Do. . . | Do. . | *For* "29·791, 29·675, 29·721, +·040 and 29·989" *read* "29·799, 29·683, 29·729, +·048 and 29·997", respectively. |
| ccxl | December „ . | II | Do. . . | Do. . . | Do. . | *For* "29·793, 29·670, 29·720, —·029 and 29·994" *read* "29·801, 29·678, 29·728, —·021 and 30·002", respectively. |
| cclx | Annual „ . | II | Do. . . | Do. . . | Do. . | *For* "29·553, 29·438, 29·490, +·014 and 29·754" *read* "29·559, 29·444, 29·497, +·021 and 29·760", respectively. |
| iv | January 1906. . | | Do. . . | Do. . . | 4, 5, 6, 7 & 9 | *For* "29·765, —·008, 30·055, 29·890 and 29·529" *read* "29·774, +·001, 30·064, 29·899 and 29·538", respectively. |
| xxiv | February „ . | I | Do. . . | Do. . . | Do. . | *For* "29·671, —·036, 29·954, 29·811 and 29·499" *read* "29·680, —·027, 29·963, 29·820 and 29·508", respectively. |
| xliv | March „ . | I | Do. . . | Do. . . | Do. . | *For* "29·657, +·052, 29·931, 29·795 and 29·542" *read* "29·666, +·061, 29·940, 29·804 and 29·551", respectively. |
| lxiv | April „ . | I | Do. . . | Do. . . | Do. . | *For* "29·449, —·031, 29·712, 29·531 and 29·371" *read* "29·459, —·021, 29·722, 29·541 and 29·381", respectively. |
| lxxxiv | May „ . | I | Do. . . | Do. . . | Do. . | *For* "29·314,—·053, 29·572, 29·461 and 29·136" *read* "29·324,—·043, 29·582, 29·471 and 29·146", respectively. |
| civ | June „ . | I | Do. . . | Do. . . | Do. . | *For* "29·260, +·008, 29·517, 29·439 and 29·128" *read* "29·270, +·018, 29·527, 29·449 and 29·138", respectively. |
| cxxiv | July „ . | I | Do. . . | Do. . . | Do. . | *For* "29·203,—·042, 29·464, 29·383 and 29·056" *read* "29·213, —·032, 29·474, 29·393 and 29·066", respectively. |
| cxliv | August „ . | I | Do. . . | Do. . . | Do. . | *For* "29·350, +·047, 29·613, 29·491 and 29·208" *read* "29·360, +·057, 29·623, 29·501 and 29·218", respectively. |
| clxiv | September „ . | I | Do. . . | Do. . . | Do. . | *For* "29·382, —·040, 29·646, 29·537 and 29·130" *read* "29·392, —·030, 29·656, 29·547 and 29·140", respectively. |
| clxxxiv | October „ . | I | Do. . . | Do. . . | Do. . | *For* "29·604, +·007, 29·873, 29·668 and 29·472" *read* "29·615, +·018, 29·884, 29·679 and 29·483", respectively. |
| cciv | November „ . | I | Do. . . | Do. . . | Do. . | *For* "29·734, +·006, 30·012, 29·845 and 29·599" *read* "29·745, +·017, 30·023, 29·856 and 29·610", respectively. |

# Corrigenda in the India Monthly Weather Reviews for the years 1902—1906.

## TABLES I AND II—*concld.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ccxxiv | December 1906. | I | Allahabad | Pressure | 4, 5, 6, 7 & 9. | *For* "29·773, —·021, 30·059, 29·880 and 29·652" *read* "29·784, —·010, 30·070, 29·891 and 29·663", respectively. |
| ccxliv | Annual " | I | Do. | Do. | 4 to 9 | *For* "29·514, —·009, 29·784, 29·890, 29·056 and ·834" *read* "29·524, +·001, 29·794, 29·899, 29·066 and ·833", respectively. |
| xvi | January " | II | Do. | Do. | 4, 5 & 7 to 9 | *For* "29·798, 29·670, 29·721, —·005 and 29·997" *read* "29·807, 29.679, 29·730, +·004 and 30·006", respectively. |
| xxxvi | February " | II | Do. | Do. | Do. | *For* "29·708, 29·588, 29·637, —·031 and 29·910" *read* "29·717, 29·597, 29·646, —·022 and 29·919", respectively. |
| lvi | March " | II | Do. | Do. | Do. | *For* "29·680, 29·551, 29·607, +·059 and 29·871" *read* "29·689, 29·560, 29·616, +·068 and 29·880", respectively. |
| lxxvi | April " | II | Do. | Do. | Do. | *For* "29·463, 29·346, 29·404, —·014 and 29·658" *read* "29·478, 29·356, 29·414, —·004 and 29·668", respectively. |
| xcvi | May " | II | Do. | Do. | Do. | *For* "29·320, 29·200, 29·257, —·057 and 29·506" *read* "29·330, 29·210, 29·267, —·047 and 29·516", respectively. |
| cxvi | June " | II | Do. | Do. | Do. | *For* "29·266, 29·156, 29·214, +·014 and 29·466" *read* "29·276, 29·166, 29·224, +·024 and 29·476", respectively. |
| cxxxvi | July " | II | Do. | Do. | Do. | *For* "29·212, 29·119, 29·170, —·035 and 29·427" *read* "29·222, 29·129, 29·180, —·025 and 29·437", respectively. |
| clvi | August " | II | Do. | Do. | Do. | *For* "29·365, 29·257, 29·314, +·048 and 29·573" *read* "29·375, 29·267, 29·324, +·058 and 29·583", respectively. |
| clxxvi | September " | II | Do. | Do. | Do. | *For* "29·393, 29·280, 29·338, —·042 and 29·598" *read* "29·403, 29·290, 29·348, —·032 and 29·608", respectively. |
| cxcvi | October " | II | Do. | Do. | Do. | *For* "29·616, 29·501, 29·551, —·005 and 29·814" *read* "29·627, 29·512, 29·562, +·006 and 29·825," respectively. |
| ccxvi | November " | II | Do. | Do. | Do. | *For* "29·754, 29·638, 29·686, +·005 and 29·953" *read* "29·765, 29·649, 29·697, +·016 and 29·964", respectively. |
| ccxxxvi | December " | II | Do. | Do. | Do. | *For* "29·798, 29·677, 29·726, —·023 and 29·999" *read* "29·809, 29·688, 29·737, —·012 and 30·010", respectively. |
| cclvi | Annual " | II | Do. | Do. | Do. | *For* "29·532, 29·415, 29·469, —·007 and 29·731" *read* "29·542, 29·425, 29·479, +·003 and 29·741", respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1907.

## TEXT.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 11 | ... | January 1907 . | *For* "·09, 0·04, 0·41, —0·37 and —90" *read* "0·8, 0·05, 0·37, —0·32 and —86", respectively against Bengal in the figure columns Nos. 2 to 6 of the tabular statement. |
| 11 | ... | Ditto . | *For* "0·05, 0·71, —0·66 and —93" *read* "0·03, 0·67, —0·64 and —96", respectively against Bihar in the figure columns Nos. 3 to 6 of the tabular statement. |
| 21 | ... | February . | *For* "2·3, 0·93, 0·85, +·008 and +9" *read* "2·0, 0·89, 0·95, —·006 and —6", respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of the 2nd tabular statement. |
| 21 | ... | Ditto . | *For* "4·4, 2·36, 0·55, +1·81 and +329" *read* "4·1, 2·03, 0·54, +1·49 and +276", respectively against Bihar in the figure columns Nos. 1, 3, 4, 5 and 6 of the 2nd tabular statement. |
| 35 | ... | March . | *For* "1·8, 3·57, 1·01, +2·56 and +253" *read* "1·9, 3·55, 1·15, +2·40 and +203", respectively against Bengal in the figure columns Nos. 2 to 6 of the tabular statement. |
| 35 | ... | Ditto . | *For* "3·6, 1·52, 0·36, +1·16 and +322" *read* "4·0, 1·77, 0·38, +1·39 and +366", respectively against Bihar in the figure columns Nos. 1, 3, 4, 5 and 6 of the tabular statement. |
| 46 | 1 | April . | *For* "3·4, 2·4, 2·07, 1·68, +0·39 and +23" *read* "3·5, 3·0, 2·25, 1·90, +0·35 and +18", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 46 | ... | Ditto . | *For* "2·1, 1·0, 0·83, 0·54, +0·29 and +54" *read* "2·2, 1·1, 0·95, 0·59, +0·36 and +61" respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 58 | ... | May . | *For* "5·3, 6·7, 3·95, 4·91, —0·96 and —20" *read* "5·8, 7·3, 4·25, 5·45, —1·20 and —22", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 58 | ... | Ditto . | *For* "2·1, 3·1, 1·34, 2·20, —0·86 and —39" *read* "2·4, 3·3, 1·61, 2·32, —0·71 and —31", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 68 | ... | June . | *For* "12·7, 12·2, 13·23, 10·72, +2·51 and +23" *read* "13·1, 12·5, 13·34, 10·94, +2·40 and +22", respectively against Bengal in the figure columns Nos. 1 to 6 of the 2nd tabular statement. |
| 69 | ... | Ditto . | *For* "7·9, 8·5, 8·94, 7·94, +1·00, and +13" *read* "8·5, 9·0, 9·47, 8·22, +1·25 and +15", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 80 | ... | July . | *For* "14·2, 15·9, 10·07, 12·33, —2·26 and —18" *read* "14·0, 16·0, 9·88, 12·25, —2·37 and —19" respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 80 | ... | Ditto . | *For* "11·6, 14·4, 9·66, 13·15, —3·49 and —27" *read* "12·2, 14·5, 9·89, 13·05, —3·16 and —24" respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 89 | 2 | August . | *For* "15·2, 8·41, 11·89, —3·48 and —29" *read* "15·4, 8·60, 11·94, —3·34 and —28", respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of the 2nd tabular statement. |
| 89 | ... | Ditto . | *For* "12·6, 13·4, 9·29, 11·91, —2·62 and —22" *read* "12·8, 13·8, 8·89, 11·86, —2·97 and —25", respectively against Bihar in the figure columns Nos. 1 to 6 of the 2nd tabular statement. |
| 99 | 2 | September . | *For* "10·0, 11·4, 8·64 9·76 and —1·12" *read* "9·9, 11·5, 8·37, 9·42 and —1·05", respectively against Bengal in the figure columns Nos. 1 to 5 of the tabular statement. |
| 99 | 2 | Ditto . | *For* "7·7, 9·0, 8·71, 9·02, —0·31 and —3" *read* "8·2, 9·4, 8·90, 9·41, —0·51 and —5", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 110 | ... | October . | *For* "1·1, 4·6, 0·52, 3·85, —3·33 and —86" *read* "1·2, 4·8, 0·62, 3·96, —3·34 and —84", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |

# Corrigenda in the India Monthly Weather Reviews for the year 1907—concld.

## TEXT.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 110 | ... | October 1907 . | *For* "2·8, 2·59, —2·47 and —95" *read* "2·9, 2·69, —2·57 and —96", respectively against Bihar in the figure columns Nos. 2, 4, 5 and 6 of the tabular statement. |
| 120 | ... | November . | *For* "0, 0·7, 0·06, 0·56 and —0·50" *read* "0·1, 0·8, 0·07, 0·63 and —0·56", respectively against Bengal in the figure columns Nos. 1 to 5 of the tabular statement. |
| 120 | ... | Ditto . | *For* "0·16, and —0·16" *read* "0·18 and —0·18", respectively against Bihar in the figure columns Nos. 4 and 5 of the tabular statement. |
| 129 | 1 | December . | *For* "1·4, 0·71, 0·12, +0·59 and +492" *read* "1·6, 0·81, 0·14, +0·67 and +479", respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of the tabular statement. |
| 129 | 1 | Ditto . | *For* "0·2, 0·07, 0·13, —0·06, and —46" *read* "0·3, 0·11, 0·12, —0·01, and —8", respectively against Bihar in the figure columns Nos. 1, 3, 4, 5 and 6 of the tabular statement. |
| 195 | 1 | Ditto . | *For* "0·97, 1·26, —0·29, 9·59, 7·60, +1·99, 40·74, 48·55, —7·81, 0·77, 0·70, +0·07, 52·07, 58·11 and —6·04" *read* "0·94, 1·32, —0·38, 10·05, 8·50, +1·55, 40·81, 48·51, —7·70, 0·88, 0·77, +0·11, 52·68, 59·10, and —6·42", respectively against Bengal in the figure columns Nos. 1 to 15 of the tabular statement. |
| 195 | ... | Ditto . | *For* "2·29, 1·26, +1·03, 3·69, 3·10, +0·59, 36·72, 44·61, —7·89, 0·07, 0·28, —0·21, 42·77, 49·25, and —6·48" *read* 2·06, 1·21, +0·85, 4·33, 3·29, +1·04, 37·27, 45·23, —7·96, 0·11, 0·30, —0·19, 43·77, 50·03 and —6·26", respectively against Bihar in the figure columns Nos. 1 to 15 of the tabular statement. |
| 196 | ... | Ditto . | *For* "2·4, 2·4, 0, 13·6, 10·9, +2·7, 53·2, 59·7, —6·5, 1·4, 0·9, +0·5, 70·6, 73·9, and —3·3" *read* "2·1, 2·3, —0·2, 14·2, 12·2, +2·0, 53·6, 60·4, —6·8, 1·7, 1·0, +0·7, 71·6, 75·9 and —4·3", respectively against Bengal in the figure columns Nos. 1 to 15 of table 112. |
| 196 | ... | Ditto . | *For* "4·3, +1·7, 7·8, 4·9, +2·9, 40·0, 48·1, —8·1, 0·2, —0·4, 52·3, 56·2 and —3·9" *read* "4·2, +1·6, 8·6, 5·2, +3·4, 41·9, 49·6, —7·7, 0·3, —0·3, 55·0, 58·0, and —3·0", respectively against Bihar in the figure columns Nos. 1, 3 to 10 and 12 to 15 of table 112. |

# Corrigenda in the India Monthly Weather Reviews for the year 1907.

## Tables A & B.

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ii | January 1907 . | A | Allahabad . . | Pressure . . | 4, 5 and 7 to 9 | *For* " 29·751, 29·624, 29·675,—·051 and 29·948 " *read* " 29·763, 29·636, 29·687, —·039 and 29·960 ", respectively. |
| xxviii | February „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·748, 29·633, 29·679, + ·011 and 29·954 " *read* " 29·760, 29·645, 29·691, + ·023 and 29·966 ", respectively. |
| liv | March „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·654, 29·527, 29·581, + ·033 and 29·847 " *read* " 29·666, 29·539, 29·593, + ·045 and 29·859," respectively. |
| xxx | April „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·521, 29·389, 29·448, + ·030 and 29·705 " *read* " 29·534, 29·402, 29·461, + ·043 and 29·718 ", respectively. |
| cvi | May „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·389, 29·267, 29·325, + ·011 and 29·576 " *read* " 29·402, 29·280, 29·338, + ·024 and 29·589 ", respectively. |
| cxxxii | June „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·245, 29·132, 29·191,—·009 and 29·442 " *read* " 29·258, 29·145, 29·204, + ·004 and 29·455 ", respectively. |
| clviii | July „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·211, 29·111, 29·165,—·040 and 29·418 " *read* " 29·225, 29·125, 29·179,—·026 and 29·432 ", respectively. |
| clxxxiv | August „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·258, 29·155, 29·210,—·056 and 29·468 " *read* 29·272, 29·169, 29·224,—·042 and 29·482 ", respectively. |
| cox | September „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·429, 29·321, 29·377,—·003 and 29·634 " *read* " 29·443, 29·335, 29·391, + ·011 and 29·648 ", respectively. |
| coxl | October „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·579, 29·461, 29·513,—·043 and 29·772 " *read* " 29·594, 29·476, 29·528,—·028 and 29·787 ", respectively. |
| cclxvi | November „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·721, 29·599, 29·650,— 031 and 29·916 " *read* " 29·736, 29·614, 29·665,—·016 and 29·931 ", respectively. |
| coxcii | December „ . | A | Do. . . | Do. . . | Do. . | *For* " 29·811, 29·697, 29·742,—·007 and 30·017 " *read* 29·826, 29·712, 29·757, + ·008 and 30·032 ", respectively. |
| cccxvi | Annual „ . | A | Do. . . | Do. . . | 4 to 9 . | *For* " 29·526, 29·410, ·116, 29·463,—·013 and 29·725 " *read* " 29·540, 29·423, ·117, 29·477, + ·001 and 29·738 ", respectively. |
| x | January „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·724, - ·049, 30·011, 29·861 and 29·554 " *read* " 29·736, — 037, 30·023, 29·873, and 29·566 ", respectively. |
| xxxvi | February „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·714, + ·007, 29·996, 29·830 and 29·623 " *read* " 29·726, + ·019, 30·008, 29·842 and 29·635 ", respectively. |
| lxii | March „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·633, + ·028, 29·908, 29·748 and 29·489 " *read* " 29·645, + ·040, 29·920, 29·760 and 29·501 ", respectively. |
| lxxxviii | April „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·507, + ·027, 29·772, 29·614 and 29·418 " *read* " 29·520, + ·040, 29·785, 29·627 and 29·431 ", respectively. |
| cxiv | May „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·380, + ·013, 29·640, 29·503 and 29·190 " *read* " 29·393, + ·026, 29·653, 29·516 and 29·203 ", respectively. |
| cxl | June „ . | B | Do. . . | Do. . . | Do. . | *For* " 29·245, — ·007, 29·502, 29·360 and 29·154 " *read* " 29·258, + ·006, 29·515, 29·373 and 29·167 ", respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1907.

TABLES A & B—*concld.*

| Page. | Part. | Table | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| clxvi | July 1907 . | B | Allahabad . . | Pressure . . | 4, 5, 6, 7 and 9. | *For* "29·205, —·040, 29·463, 29·364 and 29·090" *read* "29·219, —·026, 29·477, 29·378 and 29·104", respectively. |
| cxcii | August ,, . | B | Do. . . | Do. . . | Do. . | *For* "29·246, —·057, 29·508, 29·336 and 29·151" *read* "29·260, —·043, 29·522, 29·350 and 29·165", respectively. |
| ccxx | September,, . | B | Do. . . | Do. . . | Do. . | *For* "29·415, —·007, 29·679, 29·525 and 29·291" *read* "29·429, + ·007, 29·693, 29·539 and 29·305", respectively. |
| ccxlviii | October ,, . | B | Do. . . | Do. . . | Do. . | *For* "29·566, —·031, 29·834, 29·723 and 29·422" *read* "29·581, —·016, 29·849, 29·738 and 29·437", respectively. |
| cclxxiv | November,, . | B | Do. . . | Do. . . | Do. . | *For* "29·704, —·024, 29·982, 29·793 and 29·577" *read* "29·719, —·009, 29 997, 29·808 and 29·592", respectively, |
| cccii | December ,, . | B | Do. . . | Do, . . | Do. . | *For* "29·786, —·008, 30·075, 29·863 and 29·688" *read* "29·801, + ·007, 30·090, 29·878 and 29·703", respectively. |
| cccxxvi | Annual ,, . | B | Do. . . | Do. . . | 4 to 9. | *For* "29·510, —·012, 29·781, 29·863, 29·090 and ·773", *read* "29·524, + ·01, 29·794, 29·878, 29·104 and ·774", respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1908.

## TEXT.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 11 | ... | January 1908 . | *For* "1·8, 0·9, 0·92, 0·42, +0·50 and +119" *read* "2·0, 0·8, 1·05, 0·37, +0·68 and +184", respectively, against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 11 | ... | Ditto . | *For* "1·4, 0·60, 0·70, —0·10 and —14" *read* "1·3, 0·65, 0·68, —0·03 and —4", respectively against Bihar in the figure columns Nos. 2 to 6 of the tabular statement. |
| 22 | ... | February . | *For* "0·8, 0·37, 0·86, —0·49 and —57" *read* "0·5, 0·21, 0·95, —0·74 and —78", respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of the tabular statement. |
| 22 | ... | Ditto . | *For* "3·1, 1·61, 0·55, +1·06 and +193" *read* "2·9, 1·52, 0·54, +0·98 and +181", respectively against Bihar in the figure columns Nos. 1, 3, 4, 5 and 6 of the tabular statement. |
| 35 | ... | March . | *For* "1·7, 0·16, 1·01, —0·85 and —84" *read* "1·9, 0·17, 1·12, —0·95 and —85", respectively against Bengal in the figure columns Nos. 2 to 6 of the tabular statement. |
| 35 | ... | Ditto . | *For* "0·23, 0·36, —0·13 and —36" *read* "0·20, 0·38, —0·18 and —47", respectively against Bihar in the figure columns Nos. 3 to 6 of the tabular statement. |
| 46 | ... | April . | *For* "0·7, 2·7, 0·27, 1·68 and —1·41" *read* "0·8, 3·0, 0·30, 1·90 and —1·60", respectively against Bengal in the figure columns Nos. 1 to 5 of the tabular statement. |
| 46 | ... | Ditto . | *For* "1·0, 0·07, 0·54, —0·47 and —87" *read* "1·1, 0·08, 0·59, —0·51 and —86", respectively against Bihar in the figure columns Nos 2 to 6 of the tabular statement. |
| 55 | ... | May . | *For* "6·8, 6·7, 4·05, 4·91, —0·86 and —18" *read* "7·4, 7·3, 4·41, 5·46, —1·05 and —19", respectively against Bengal in the figure columns Nos. 1 to 6 of the 2nd tabular statement. |
| 55 | ... | Ditto . | *For* "2·4, 3·1, 1·33, 2·22, —0·89 and —40" *read* "2·7, 3·3, 1·51, 2·32, —0·81 and —35", respectively against Bihar in the figure columns Nos. 1 to 6 of the 2nd tabular statement. |
| 66 | ... | June . | *For* "12·4, 12·3, 14·48, 10·69, +3·79, and +35" *read* "12·9, 12·5, 15·91, 10·93, +4·98 and +46", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 66 | ... | Ditto . | *For* "5·5, 8·4, 3·37, 7·94, —4·57 and —58" *read* "6·3, 9·0, 4·40, 8·29, —3·89 and —47", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 75 | ... | July . | *For* "16·9, 15·9, 14·27, 12·33, +1·94 and +16" *read* "17·7, 16·0, 15·14, 12·25, +2·89 and +24", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 75 | ... | Ditto . | *For* "9·4, 15·6, 7·37, 13·13, —5·76 and —44" *read* "10·1, 14·5, 8·04, 13·05, —5·01 and —38", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 86 | ... | August . | *For* "17·6, 15·7, 9·99, 11·87, —1·88 and —16" *read* "18·7, 15·6, 10·50, 11·91, —1·41 and —12", respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 86 | ... | Ditto . | *For* "8·9, 13·4, 6·44, 12·03, —5·59 and —46" *read* "9·7, 13·8, 6·68, 11·96, —5·28 and —44", respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 96 | 2 | September | *For* "11·5, 7·23, 9·77, —2·54 and —26" *read* "11·6, 7·19, 9·43, —2·24 and —24", respectively against Bengal in the figure columns Nos. 2 to 6 of the tabular statement. |
| 96 | ... | Ditto . | *For* "7·1, 9·0, 5·91, 9·03 and —3·12" *read* "7·4, 9·4, 6·15, 9·41 and —3·26", respectively against Bihar in the figure columns Nos. 1 to 5 of the tabular statement. |
| 107 | 1 | October . | *For* "4·6, 0·93, 3·87, —2·94, and —76" *read* "4·8, 0·95, 4·05, —3·10 and —77", respectively against Bengal in the figure columns Nos. 2 to 6 of the 2nd tabular statement. |

# Corrigenda in the India Monthly Weather Reviews for the year 1908—*concld.*

TEXT.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 107 | 2 | October 1908 . | *For* "2·8, 2·59, —1·74 and —67" *read* "2·9, 2·69, —1·84 and —68", respectively against Bihar in the figure columns Nos. 2, 4, 5 and 6 of the tabular statement. |
| 116 | ... | November . | *For* "0·7, 0·56, —0·54 and —96" *read* "0·8, 0·64, —0·62, and —97", respectively against Bengal in the figure columns Nos. 2, 4, 5 and 6 of the 2nd tabular statement. |
| 116 | ... | Ditto . | *For* "0, 0·16, —0·16 and —100" *read* "0·01, 0·18, —0·17 and —94", respectively against Bihar in the figure columns Nos. 3 to 6 of the 2nd tabular statement. |
| 126 | ... | December . | *For* "0·11, and —0·11" *read* "0·12, and —0·12" respectively against Bengal in the figure columns Nos. 4 and 5 of the 2nd tabular statement. |
| 126 | ... | Ditto . | *For* "0·13, and —0·12" *read* "0·12 and —0·11", respectively against Bihar in the figure columns Nos. 4 and 5 of the 2nd tabular statement. |
| 187 | ... | Ditto . | *For* "1·41, 1·28, +0·13, +10, 4·41, 7·60, —3·19, 45·92, 44·64, +1·28, +3, 0·95, 4·54, —3·59, —79, 52·69, 58·06, —5·37 and —9" *read* "1·26, 1·32, —0·06, —5, 4·88, 8·48, —3·60, 48·74, 44·52, +4·22, +9, 6·97, 4·81, —3·84, —80, 55·85, 59·13, —3·28 and—6", respectively against Bengal in the figure columns Nos. 1 to 7 and 9 to 20 of table 94. |
| 188 | ... | Ditto . | *For* "2·19, 1·25, +0·94, +75, 1·64, 3·12, —1·48, —47, 22·95, 42·13, —19·18, —46, 0·85, 2·88, —2·03, —70, 27·63, 49·38, —21·75, and —44" *read* "2·17, 1·22, +0·95, +78, 1·79, 3·29, —1·50, —46, 25·27, 42·71, —17·44, —41, 0·87, 2·99, —2·12, —71, 30·10, 50·21, —20·11, and —40", respectively against Bihar in the figure columns Nos. 1 to 20 of table 94. |
| 189 | ... | Ditto . | *For* "2·7, 2·4, +0·3, 7·8, 11·1, —3·3, 56·2, 55·4, +0·8, 5·5, —3·9, 68·3, 74·4 and —6·1" *read* "2·5, 2·3, +0·2, 8·6, 12·2, —3·6, 58·8, 55·7, +3·1, 5·8, —4·2, 71·5, 76·0 and—4·5", respectively against Bengal in the figure columns Nos. 1 to 9 and 11 to 15 of table 95. |
| 189 | ... | Ditto . | *For* "4·3, 2·7, +1·6, 3·4, 4·9, —1·5, 30·5, 46·4, —15·9, 3·4, —2·4, 39·2, 57·4 and —18·2" *read* "4·1, 2·6, +1·5, 3·6, 5·2, —1·6, 33·5, 46·7, —13·2, 3·5, —2·5, 42·2, 58·0 and —15·8", respectively against Bihar in the figure columns Nos. 1 to 9 and 11 to 15 of table 95. |

# Corrigenda in the India Monthly Weather Reviews for the year 1908.

## Tables A and B.

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ii | January 1908 . | A | Allahabad . . | Pressure . . | 4, 5 and 7 to 9. | *For* "29·827, 29·699, 29·750, +·024 and 30·028" ***read*** "29·843, 29·715, 29·766, +·040 and 30·044" respectively. |
| xxviii | February . . | A | Do. . . | Do. . . | Do. . . | *For* "29·680, 29·560, 29·609, —·059 and 29·879" ***read*** "29·696, 29·576, 29·625, —·043 and 29·895" respectively. |
| liv | March . . | A | Do. . . | Do. . . | Do. . . | *For* "29·656, 29·530, 29·584, +·036 and 29·847" ***read*** "29·672, 29·546, 29·600, +·052 and 29·863" respectively. |
| lxxx | April . . | A | Do. . . | Do. . . | Do. . . | *For* "29·442, 29·307, 29·367, —·051 and 29·619" ***read*** "29·460, 29·325, 29·385, —·033 and 29·637" respectively. |
| cvi | May . . | A | Do. . . | Do. . . | Do. . . | *For* "29·352, 29·227, 29·287, —·027 and 29·532" ***read*** "29·370, 29·245, 29·305, —·009 and 29·550" respectively. |
| cxxxii | June . . | A | Do. . . | Do. . . | Do. . . | *For* "29·218, 29·109, 29·167, —·033 and 29·414" ***read*** "29·236, 29·127, 29·185, —·015 and 29·432" respectively. |
| clviii | July . . | A | Do. . . | Do. . . | Do. . . | *For* "29·242, 29·138, 29·194, —·011 and 29·451" ***read*** "29·261, 29·157, 29·213, +·008 and 29·470" respectively. |
| clxxxiv | August . . | A | Do. . . | Do. . . | Do. . . | *For* "29·278, 29·173, 29·229, —·037 and 29·488" ***read*** "29·297, 29·192, 29·248, —·018 and 29·507" respectively. |
| ccx | September . . | A | Do. . . | Do. . . | Do. . . | *For* "29·456, 29·341, 29·401, +·021 and 29·626" ***read*** "29·475, 29·360, 29·420, +·040 and 29·645" respectively. |
| ccxxxviii | October . . | A | Do. . . | Do. . . | Do. . . | *For* "29·590, 29·477, 29·527, —·029 and 29·788" ***read*** "29·610, 29·497, 29·547, —·009 and 29·808" respectively. |
| cclxx | November . . | A | Do. . . | Do. . . | Do. . . | *For* "29·738, 29·623, 29·671, —·010 and 29·938" ***read*** "29·758, 29·643, 29·691, +·010 and 29·958" respectively. |
| ccxcvi | December . . | A | Do. . . | Do. . . | Do. . . | *For* "29·834, 29·715, 29·762, +·013 and 30·038" ***read*** "29·854, 29·735, 29·782, +·033 and 30·058" respectively. |
| cccxxii | Annual . . | A | Do. . . | Do. . . | 4 to 9 . . | *For* "29·526, 29,408, ·118, 29·462, —·014 and 29·721" *read* "29·544, 29·427, ·117, 29·481, +·005 and 29·739," respectively. |
| x | January . . | B | Do. . . | Do. . . | 4, 5, 6, 7 and 9. | *For* "29·792, +·019, 30·082, 29·917, and 29·438" *read* "29·808, +·035, 30·098, 29·933 and 29·454" respectively. |
| xxxvi | February . . | B | Do. . . | Do. . . | Do. . . | *For* "29·649, —·058, 29·931, 29·923 and 29·479" *read* "29·665, —·042, 29·947, 29·939 and 29·495" respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1908.

## Tables A and B.—*concld.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| lxii | March 1908 . . | B | Allahabad . . | Pressure . . | 4, 5, 6, 7 and 9. | *For* "29·632, +·027, 299·06, 29·744 and 29·436" *read* "29·648, +·043, 29·922, 29·760 and 29·452" respectively. |
| lxxxviii | April . . | B | Do. . . | Do. . . | Do. . . | *For* "29·430, —·050, 29·691, 29·620 and 29·323" *read* "29·448, —·032, 29·709, 29·638 and 29·341" respectively. |
| cxiv | May . . | B | Do. . . | Do. . . | Do. . . | *For* "29·344 ?, —·023 ?, 29·602 ?, 29·435 and 29·217" *read* "29·362 ?, —·005 ?, 29·620 ?, 29·453 and 29·235" respectively. |
| cxl | June . . | B | Do. . . | Do. . . | Do. . . | *For* "29·210 ?, —·042 ?, 29·466 ?, 29·330 and 29·121" *read* "29·228 ?, —·024 ?, 29·484 ?, 29·348 and 29·139" respectively. |
| clxvi | July . . | B | Do. . . | Do. . . | Do. . . | *For* "29·234, —·011, 29·495, 29·386 and 29·163" *read* "29·253, +·008, 29·514, 29·405 and 29·182" respectively. |
| cxcii | August . . | B | Do. . . | Do. . . | Do. . . | *For* "29·269 ?, —·034 ?, 29·531 ?, 29·356 and 29·184" *read* "29·288 ?, —·015 ?, 29·550 ?, 29·375 and 29·203" respectively. |
| ccxx | September . . | B | Do. . . | Do. . . | Do. . . | *For* "29·447, +·025, 29·710, 29·533 and 29·345" *read* "29·466, +·044, 29·729, 29·552 and 29·364" respectively. |
| ccxlviii | October . . | B | Do. . . | Do. . . | Do. . . | *For* "29·578, —·019, 29·848, 29·683 and 29·436" *read* "29·598, +·001, 29·868, 29·703 and 29·456" respectively. |
| cclxxviii | November . . | B | Do. . . | Do. . . | Do. . . | *For* "29·719, —·009, 29·999, 29·837 and 29·555" *read* "29·739, +·011, 30·019, 29·857 and 29·575" respectively. |
| cccIV | December . . | B | Do. . . | Do. . . | Do. . . | *For* "29·811, +·017, 30·100, 29·889 and 29·747" *read* "29·831, +·037, 30·120, 29·909 and 29·767" respectively. |
| cccxxxii | Annual . . | B | Do. . . | Do. . . | 4 to 9 | *For* "29·510, —·013, 29·780, 29·923, 29·121 and ·802" *read* "29·528, +·005, 29·798, 29·939, 29·139 and ·800" respectively. |
| cccxxxii | Do. . . | B | Jacobabad . . | Temperature of air | 19 and 21 | *For* "117·1 and 83·8" *read* "122·1 and 88·8" respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TEXT.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 10 | 2 | January 1909 ... | *For* " 0 " *read* " +0·1 " against Bombay in the figure column No. 1 of table 12. |
| 10 | 2 | Ditto ... | *For* " — 2·0 " *read* " —2·1 " against Hyderabad in the figure column No. 1 of table 12. |
| 11 | ... | Ditto ... | *For* " 0·29, — 1·08 and — 79 " *read* " 0·30, — 1·07 and — 78 respectively against North-West Frontier Province in the figure columns Nos. 3, 5 and 6 of table 14. |
| 11 | ... | Ditto ... | *For* " 1·8, 0·71, —0·57 and — 45 " *read* " 1·9, 0·55, — 0·73 and — 57 " respectively against Baluchistan in the figure columns Nos. 1, 3, 5 and 6 of table 14. |
| 11 | ... | Ditto ... | *For* " 0·13, — 0·03 and — 19 " *read* " 0·11, — 0·05 and — 31 " respectively against Rajputana West, in the figure columns Nos 3, 5 and 6 of table 14. |
| 11 | ... | Ditto ... | *For* " 0·8 " *read* " 0·9 " against Rajputana East, in the figure column No. 1 of table 14. |
| 11 | ... | Ditto ... | *For* " 0·12, — 0·13 and — 52 " *read* " 0·14, — 0·11 and — 44 " respectively against Central India West, in the figure columns Nos. 3, 5 and 6 of table 14. |
| 11 | ... | Ditto ... | *For* " 0·8, 0·9, 0·32, 0·42, —0·10 and — 24 " *read* " 0·6, 0·8, 0·23, 0·37, — 0·14 and —38 " respectively against Bengal in the figure columns Nos. 1 to 6 of table 14. |
| 11 | ... | Ditto ... | *For* " 0·8, 1·4, 0·24, 0·70, — 0·46 and — 66 " *read* " 0·9, 1·3, 0·32, 0·69, — 0·37 and — 54 " respectively against Bihar in the figure columns Nos. 1 to 6 of table 14. |
| 12 | ... | Ditto ... | *For* " te " *read* " the " in the last line under the heading " Punjab ". |
| 12 | 1 | Ditto ... | *For* " 0·29, — 1·08 and — 79 " *read* " 0·30, — 1·07 and — 78 " respectively against North-West Frontier Province in the figure columns Nos. 1, 3 and 4 of table 15. |
| 12 | 2 | Ditto ... | *For* " 0·25, — 0·08 and — 24 " *read* " 0·24, — 0·09 and — 27 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 15. |
| 21 | 1 | February ... | *For* " — 0·5 " *read* " — 0·6 " against Burma in the figure column No. 1 of table 13. |
| 21 | 2 | Ditto ... | *For* " —0·2 " *read* " — 0·3 " against Bombay in the figure column No. 1 of table 13. |
| 21 | 2 | Ditto ... | *For* " — 1·6 " *read* " — 1·8 " against Hyderabad in the figure column No. 1 of table 13. |
| 22 | ... | Ditto ... | *For* " 0·8, 0·20, 0·86, — 0·66 and — 77 " *read* " 0·6, 0·17, 0·95, — 0·78 and — 82 " respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of table 15. |
| 22 | ... | Ditto ... | *For* " 1·0, 0·26, 0·57, — 0·31 and — 54 " *read* " 1·1, 0·27, 0·55, — 0·28 and — 51 " respectively against Bihar in the figure columns Nos. 1, 3, 4, 5 and 6 of table 15. |
| 23 | ... | Ditto ... | *For* " 3·7, 2·11, 1·34, + 0·77 and + 57 " *read* " 3·9, 2·21, 1·35, + 0·86 and + 64 " respectively against North-West Frontier Province in the figure columns Nos. 1, 3, 4, 5 and 6 of table 15. |
| 23 | ... | Ditto ... | *For* " 4·2, 1·72, + 0·15 and + 10 " *read* " 4·3, 1·70, + 0·13 and + 8 " respectively against Baluchistan in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 23 | 1 | Ditto ... | *For* " 2·11, 1·34, + 0·77 and + 57 " *read* " 2·21, 1·35, + 0·86 and + 64 " respectively against North-West Frontier Province in the figure columns Nos. 1, 2, 3 and 4 of table 16. |
| 23 | 1 | Ditto | *For* " 0·07, — 0·15 and — 68 " *read* " 0·06, — 0·16 and — 73 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 16. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—contd.

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 24 | 1 | February 1909 ... | *For* "Lari," *read* "Sari" in table 19. |
| 32 | 1 | March ... | *For* "— 0·3" *read* "— 0·4" against Burma in the figure column No. 1 of table 12. |
| 32 | 2 | Ditto ... | *For* "— 0·9" *read* "— 1·0" against Bombay in the figure column No. 1 of table 12. |
| 32 | 2 | Ditto ... | *For* "— 1·8" *read* "— 1·9" against Hyderabad in the figure column No. 1 of table 12. |
| 34 | 1 | Ditto ... | *For* "0, 1·7, 1·01 and — 1·00" *read* "0·1, 1·9, 1·15 and — 1·14" respectively against Bengal in the figure columns Nos. 1, 2, 4 and 5 of table 15. |
| 34 | 1 | Ditto ... | *For* "0·36 and — 0·36" *read* "0·38 and —0·38" respectively against Bihar in the figure columns Nos. 4 and 5 of table 15. |
| 34 | 1 | Ditto ... | *For* "0·5" *read* "0·7" against Berar in the figure column No. 2 of table 15. |
| 34 | 1 | Ditto ... | *For* "2·4, 0·65, — 1·11 and — 63" *read* "2·2, 0·59, — 1·17 and — 66" respectively against North-West Frontier Province in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 34 | 1 | Ditto ... | *For* "0·83, — 0·29 and — 26" *read* "0·81, — 0·31 and — 2·8" respectively against Baluchistan in the figure columns Nos. 3, 5 and 6 of table 15. |
| 34 | 2 | Ditto ... | *For* "0·65, — 1·11 and — 63" *read* "0·59, — 1·17 and — 66" respectively against North-West Frontier Province in the figure columns Nos. 1, 3 and 4 of table 16. |
| 43 | 2 | April ... | *For* "— 1·4" *read* "— 1·5" against Burma in the figure column No. 1 of table 13. |
| 43 | 2 | Ditto ... | *For* "+ 0·7" *read* "+ 0·6" against Bombay in the figure column No. 1 of table 13. |
| 43 | ... | Ditto ... | *For* "— 1·7" *read* "— 1·9" against Hyderabad in the figure column No. 1 of table 13. |
| 44 | ... | Ditto ... | *For* "8·4, 2·7, 5·23, 1·69, + 3·54 and + 209" *read* "9·2, 3·0, 5·76, 1·90, + 3·86 and + 203" respectively against Bengal in the figure columns Nos. 1 to 6 of table 15. |
| 44 | ... | Ditto ... | *For* "1·0, 2·70, 0·54, + 2·16 and + 400" *read* 1·1, 2·76, 0·59, + 2·17 and + 368" respectively against Bihar in the figure columns Nos. 2, 3, 4, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "2·59, + 2·45 and + 17·50" *read* "2·60, + 2·46 and + 17·57" respectively against United Provinces, East, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "2·75, + 2·52 and + 10·96" *read* "2·76, + 2·53 and + 11·00" respectively against United Provinces, West, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "3·1, 1·12, —0·19 and —15" *read* "3·3, 1·18, —0·13 and —10" respectively against North-West Frontier Province in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "2·2, 0·72, +0·24 and + 50" *read* "2·1, 0·73, +0·25 and + 52" respectively against Baluchistan in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "2·03, + 1·92 and + 1745" *read* "2·02, + 1·91 and + 1736" respectively against Rajputana, East, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 44 | ... | Ditto ... | *For* "1·06, + 1·01 and + 2020" *read* "1·24, + 1·19 and + 2380" respectively against Central India, West, of table 15. |
| 44 | ... | Ditto ... | *For* "3·9" *read* "4·1" against Central India, East, in the figure column No. 1 of table 15. |
| 45 | 1 | Ditto ... | *For* "1·12, —0·19 and — 15" *read* "1·18, — 0·13 and —10" respectively against North-West Frontier Province in the figure columns Nos. 1, 3 and 4 of table 16. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*contd.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 45 | 2 | April 1909 ... | *For* " 1·54, + 1·47 and +2100 " *read* " 1·68, + 1·61 and + 2300 " respectively against Central India in the figure columns Nos. 1, 3 and 4 of table 16. |
| 51 | 2 | May ... | *For* " Chmarhi " *read* " Pachmarhi " in table 10. |
| 52 | ... | Ditto ... | *For* " 7·14, 78·5, 14·1, 29·3, —1·1 and 0 " *read* " 71·5, 78·6, 14·0, 29·0, —0·8 and —0·3 " respectively, against Assam in the figure columns Nos. 2 to 5, 7 and 8 of table 12. |
| 53 | 2 | Ditto ... | *For* " —1·0 " *read* "|—1·3" against Hyderabad in the figure column No. 1 of table 13. |
| 54 | ... | Ditto ... | *For* " 14·8, 13·51, —1·55 and —11 " *read* " 14·9, 13·63, —1·67 and —12," respectively against Assam in the figure columns Nos. 2, 4, 5 and 6 of table 15. |
| 54 | ... | Ditto ... | *For* " 5·8, 6·9, 3·95, 4·91, —0·96 and —20," *read* " 6·3, 7·2, 4·46, 5·45, —0·99 and —18," respectively, against Bengal in the figure columns Nos. 1 to 6 of table 15. |
| 55 | 1 | Ditto ... | *For* " 11·72 and 1·72 " *read* " 11·76 and —1·76," respectively, against Eastern Bengal and Assam in the figure columns Nos. 2 and 3 of table 16. |
| 55 | ... | Ditto ... | *For* " 1·4, 3·1, 0·91, 2·22, —1·31 and —59 " *read* " 1·7, 3·3, 1·05, 2·32, —1·27 and —55," respectively, against Bihar in the figure columns Nos. 1 to 6 of the 1st tabular statement. |
| 55 | ... | Ditto .. | *For* " 0·2 " *read* " 2·4 " against Kashmir in the figure column No. 1 of table 15. |
| 55 | ... | Ditto ... | *For* " 1·6, 0·23, 0·72 and — 68 " *read* " 1·7, 0·24, 0·73 and — 67 " respectively against North-West Frontier Province in the figure columns Nos. 2, 3, 4 and 6 of table 15. |
| 55 | ... | Ditto ... | *For* " 0·2 " *read* " 0·1 " against Baluchistan in the figure column No. 1 of table 15. |
| 55 | ... | Ditto ... | *For* " 0·7, 0·24 — 0·19 and — 44 " *read* " 0·8, 0·26, — 0·17 and — 37 " respectively against Rajputana East, in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 55 | ... | Ditto ... | *For* " 0·29, + 0·02 and + 7 " *read* " 0·28, + 0·01 and + 7 " respectively against Central India, West, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 55 | 1 | Ditto ... | *For* " 0·23, 0·72 and — 68 " *read* " 0·24, 0·73 and — 67 " respectively against North West Frontier Province in the figure columns Nos. 1, 2 and 4 of table 16. |
| 55 | ... | Ditto ... | *For* " 0·20, — 0·20 and — 50 " *read* " 0·22, — 0·18 and — 45 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 16. |
| 60 | 1 | June ... | *For* " Alibag Magnetic Record " *read* " Alibag magnetic record " under the heading " Bombay Observatory. " |
| 63 | ... | Ditto ... | *For* " 75·5, 81·4, 11·9 and 22·9 " *read* " 75·6, 81·5, 11·8 and 22·8," respectively, against Assam in the figure columns Nos. 2, 3, 4 and 5 of table 10. |
| 65 | 1 | Ditto ... | *For* " —1·1 " *read* " —1·2 " against Burma in the figure column No. 1 of table 12. |
| 65 | 2 | Ditto ... | *For* " —0·5 " *read* " —1·0 " against Hyderabad in the figure column No. 1 of table 12. |
| 66 | ... | Ditto ... | *For* " 17·48, +4·06, and +23 " *read* " 17·61, +3·93 and +22," respectively, against Assam in the figure columns Nos. 4, 5 and 6 of table 15. |
| 66 | ... | Ditto ... | *For* " 16·4, 12·3, 14·21, 10·70, + 3·51 and +33 " *read* " 17·0, 12·5, 14·04, 10·92, + 3·12 and +29," respectively, against Bengal in the figure columns Nos. 1 to 6 of table 15. |
| 66 | ... | Ditto ... | *For* " 14·5, 8·5, 16·66, 7·94, +8·72 and +110 " *read* " 14·4, 9·0, 16·36, 8·29, +8·07 and +97," respectively, against Bihar in the figure columns Nos. 1 to 6 of table 15. |
| 66 | ... | Ditto ... | *For* " 9·30 and +3·96 " *read* " 9·27 and +3·93," respectively, against United Provinces, East, in the figure columns Nos. 3 and 5 of table 15. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*contd.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 66 | ... | June 1909 ... | *For* " 7·02, +2·41 and +52" *read* " 7·07, +2·46 and +53," respectively, against United Provinces West, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 67 | ... | Ditto ... | *For* " 4·9 " *read* " 5·0 " against Punjab, East and North, in the figure column No. 1 of table 15. |
| 67 | ... | Ditto ... | *For* " Eastern Benga and Assam " *read* " Eastern Bengal and Assam " in table 16. |
| 67 | ... | Ditto ... | *For* " 17·09, +5·61, and +33" *read* " 17·16, +5·54 and +32," respectively, against Eastern Bengal and Assam in the figure columns Nos. 2, 3 and 4 of table 16. |
| 67 | ... | Ditto ... | *For* " 8·23 and + 3·23 " *read* " 8·24 and + 3·24," respectively against United Provinces in the figure columns Nos. 1 and 3 of table 16. |
| 67 | ... | Ditto ... | *For* " 2·2, 0·99, 0·83, + 0·16 and + 19" *read* " 2·3, 1·04, 0·86, + 0·18 and + 21 " respectively against North-West Frontier Province in the figure columns Nos. 1, 3 and 4 to 6 of table 15. |
| 67 | ... | Ditto ... | *For* " 1·06, — 0·33 and — 24" *read* " 1·03, — 0·36 and — 26 " respectively against Rajputana, West, in the figure columns Nos. 3, 5 and 6 of table 15. |
| 67 | ... | Ditto ... | *For* " 6·8, 6·73, — 0·74 and — 11 " *read* " 6·7, 6·68, — 0·69 and — 10 " respectively against Central India West, in the figure columns Nos. 2 and 4 to 6 of table 15. |
| 67 | ... | Ditto ... | *For* " 11·2, 9·51, + 2·12 and + 29 " *read* " 11·3, 9·28, + 1·89 and + 26 " respectively against Central India East, in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 67 | 1 | Ditto ... | *For* " 0·99, 0·83, + 0·16 and + 19 " *read* " 1·04, 0·86, + 0·18 and + 21 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 4 of table 16. |
| 67 | 2 | Ditto ... | *For* " 7·16, 6·96, and + 0·20 " *read* " 7·15, 6·92 and + 0·21 " respectively against Central India in the figure columns Nos. 1, 2 and 3 of table 16. |
| 72 | 2 | July ... | *For* " +0·18 " *read* " +0·32 " against Madura in the figure column No. 2 of table 10. |
| 73 | ... | Ditto ... | *For* " 77·3, 12·1 and 21.5 " *read* " 77·4, 11·9 and 21·3," respectively, against Assam in the figure columns Nos. 2, 4 and 5 of table 12. |
| 74 | 2 | Ditto ... | *For* " —0·2 " *read* " —0·3 " against Punjab in the figure column No. 1 of table 13. |
| 74 | ... | Ditto ... | *For* " +0·2 " *read* +0·1 " against Bombay in the figure column No. 1 of table 13. |
| 74 | ... | Ditto ... | *For* " —0·5 " *read* " —1·1 " against Hyderabad in the figure column No. 1 of table 13. |
| 76 | ... | Ditto ... | *For* " 19·2, 18·05, —4·74 and —25 " *read* " 19·3, 18·16, —4·85 and —27," respectively, against Assam in the figure columns Nos. 2, 4, 5 and 6 of table 15. |
| 76 | ... | Ditto ... | *For* " 14·8, 15·9, 9·39, 12·33 and —2·94 " *read* " 14·9, 15·8, 9·36, 12·25 and —2·89 " respectively, against Bengal in the figure columns Nos. 1 to 5 of the tabular statement. |
| 76 | ... | Ditto ... | *For* " 12·6, 14·4, 10·49, 13·13, —2·64 and —20 " *read* " 12·9, 14·5, 10·30, 13·05, —2·75 and —21, respectively, against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 76 | ... | Ditto ... | *For* " 9·02 and +2·32 " *read* " 9·03 and +2·33 " respectively against Punjab, East and North, in the figure columns Nos. 3 and 5 of table 15. |
| 76 | ... | Ditto ... | *For* " 7·3, 5·43, + 1·18 and + 28 " *read* " 7·2, 5·41, + 1·16 and + 27 " respectively against Kashmir in the figure columns Nos. 1, 3, 5 and 6 of table 15. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*contd.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 76 | ... | July 1909 ... | *For* " 6·8, 4·1, 5·41, 3·16, + 2·25 and + 71 " *read* " 7·1, 4·2, 5·68, 3·27, + 2·41 and + 74 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 6 of table 15. |
| 76 | ... | Ditto ... | *For* " 0·98, + 0·11 and + 13 " *read* " 0·93, + 0·06 and + 7 " respectively against Baluchistan in the figure columns Nos. 3, 5 and 6 of table 15. |
| 76 | ... | Ditto ... | *For* " 14·1, 11·33 and + 3·41 " *read* " 14·2, 11·35 and + 3·43 " respectively against Rajputana East in the figure columns Nos. 1, 3 and 5 of table 15. |
| 76 | ... | Ditto ... | *For* " 15·5, 11·09, + 1·47 and + 15 " *read* " 15·7, 10·92, + 1·30 and + 14 " respectively against Central India West in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 76 | ... | Ditto ... | *For* " 14·2, 15·18, + 1·60 and +12 " *read* " 14·1, 15·62, + 2·04 and + 15 " respectively against Central India East in the figure columns Nos. 2, 3, 5 and 6 of table 15. |
| 77 | ... | Ditto ... | *For* " 17·88 and —5·40 " *read* " 17·94 and —5·46," respectively, against Eastern Bengal and Assam in the figure columns Nos. 2 and 3 of table 16. |
| 77 | ... | Ditto ... | *For* " 8·09 and + 2·26 " *read* " 8·11 and + 2·28 " respectively against Punjab in the figure columns Nos. 1 and 3 of table 16. |
| 77 | 1 | Ditto ... | *For* " 5·41, 3·16, + 2·25 and + 71 " *read* " 5·68, 3·27, + 2·41 and + 74 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 4 of table 16. |
| 77 | 1 | Ditto ... | *For* " 10·19, + 3·37 and + 49 " *read* " 10·24, + 3·42 and + 50 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 16. |
| 77 | 2 | Ditto ... | *For* " 12·48 and + 1·49 " *read* " 12·55 and + 1·56 " respectively against Central India in the figure columns Nos. 1 and 3 of table 16. |
| 84 | 1 | August ... | *For* " — 1·2 " *read* " — 1·3 " against Burma in the figure column No. 1 of table 10. |
| 84 | ... | Ditto ... | *For* " + 0·5 " *read* " + 0·4 " against Punjab in the figure column No. 1 of table 10. |
| 84 | ... | Ditto ... | *For* " — 2·0 " *read* " — 2·1 " against Bombay in the figure column No. 1 of table 10. |
| 84 | ... | Ditto ... | *For* " — 4·6 " *read* " — 4·8 " against Hyderabad in the figure column No. 1 of table 10. |
| 85 | ... | Ditto ... | *For* " 17·5, 16·13, + 1·29 and + 8 " *read* " 17·6, 16·22, + 1·20 and +7 " respectively against Assam in the figure columns Nos. 2, 4, 5 and 6 of table 12. |
| 85 | ... | Ditto ... | *For* " 18·6, 16·0, 20·39, 11·87, + 8·52 and + 72," *read* " 19·1, 16·1, 21·54, 11·93, +9·61 and +81," respectively against Bengal in the figure columns Nos. 1 to 6 of table 12. |
| 85 | ... | Ditto ... | *For* " 15·1, 13·4, 13·61, 12·02, + 1·59 and + 13," *read* " 15·4, 13·8, 13·97, 11·95, + 2·02 and + 17 " respectively against Bihar in the figure columns Nos. 1 to 6 of table 12. |
| 85 | ... | Ditto ... | *For* " 9·57, —2·14 and — 18 " *read* " 9·71, — 2·00 and — 17 respectively against United Provinces, West, in the figure columns Nos. 3, 5 and 6 of table 12. |
| 85 | ... | Ditto ... | *For* " 6·2, 4·2, 4·93, 3·38, + 1·55 and + 46 " *read* " 6·5, 4·3, 5·18, 3·46, + 1·72 and + 50 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 6 of table 12. |
| 85 | ... | Ditto ... | *For* " 3·44, + 0·12, and + 4 " *read* " 3·39, + 0·07 and + 2 " respectively against Rajputana, West, in the figure columns Nos. 3, 5 and 6 of table 12. |
| 86 | ... | Ditto ... | *For* " 15·83 and + 6·51 " *read* " 15·87 and + 6·47 " respectively against Eastern Bengal and Assam in the figure columns Nos. 2 and 3 of table 13. |
| 86 | ... | Ditto ... | *For* " 8·30, — 3·22 and — 28 " *read* " 8·37, — 3·15 and — 27 " respectively against United Provinces in the figure columns Nos. 1, 3 and 4 of table 13. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*contd.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 86 | ... | August 1909 ... | *For* " 10·83, + 0·59 and + 6 " *read* " 11·58, + 1·34 and + 13 " respectively against Central India, West, in the figure columns Nos. 3, 5 and 6 of table 12. |
| 86 | 1 | Ditto ... | *For* " 4·93, 3·38, + 1·55 and + 46 " *read* " 5·18, 3·46, + 1·72 and + 50 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 4 of table 13. |
| 86 | 1 | Ditto ... | *For* " 5·30, — 0·44 and — 7 " *read* " 5·77, — 0·47 and — 8 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 13. |
| 86 | 2 | Ditto ... | *For* " 9·58, — 1·66 and — 15 " *read* " 9·45, — 1·79 and — 16 " respectively against Central India in the figure columns Nos. 1, 3 and 4 of table 13. |
| 95 | 1 | September ... | *For* " — 0·5 " *read* " — 0·8 " against Hyderabad in the figure column No. 1 of table 12. |
| 97 | ... | Ditto ... | *For* " 1·4, 1·8, 0·93, 1·23, — 0·30 and —24 " *read* " 1·7, 1·9, 0·97, 1·26, — 0·29 and —23 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 0·7, 0·41, + 0·27 and + 193 " *read* " 0·6, 0·39, + 0·25 and + 179 " respectively against Baluchistan in the figure columns Nos. 1, 3, 5 and 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 4·49, + 2·41 and + 1·16 " *read* " 4·68, + 2·60 and + 1·25 " respectively against Rajputana West in the figure columns Nos. 3, 5 and 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 5·3, 3·19, — 0·77 and — 19 " *read* " 5·4, 3·24, — 0·72 and — 18 " respectively against Rajputana East in the figure columns Nos. 1, 3, 5 and 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 11·0, 11·5, 9·42, 9·76, — 0·34 and — 3 " *read* " 11·5, 11·6, 9·85, 9·42, + 0·43, and + 5 " respectively against Bengal in the figure columns Nos. 1 to 6 of the tabular statement. |
| 97 | ... | Ditto ... | *For* " 8·3, 9·0, 6·99, 9·02, — 2·03 and — 23 " *read* " 8·4, 9·4, 7·11, 9·41, — 2·30 and — 24 " respectively against Bihar in the figure columns Nos. 1 to 6 of the tabular statement. |
| 97 | ... | Ditto ... | *For* " 6·3, 6·38, + 3·28 and + 106 " *read* " 6·4, 6·43 + 3·33 and + 107 " respectively against Punjab East and North in the figure columns Nos. 1, 3, 5 and 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 6·5, 3·88, — 1·85 and — 32 " *read* " 6·7, 3·93, — 1·80 and — 31 " respectively against Central India, West, in the figure columns Nos. 1, 3, 5 and 6 of table 14. |
| 97 | ... | Ditto ... | *For* " 8·2 " *read* " 8·1 " against Central India East in the figure column No. 2. |
| 98 | ... | Ditto ... | *For* " 5·45, + 2·82 and + 107 " *read* " 5·48, + 2·85 and + 1·08 " respectively against Punjab in the figure columns Nos. 1, 3 and 4 of table 15. |
| 98 | 1 | Ditto ... | *For* " 0·93, 1·23, — 0·30 and — 24 " *read* " 0·97, 1·26, — 0·29 and — 23 " respectively against North-West Frontier Province in the figure columns Nos. 1 to 4 of table 15. |
| 98 | ... | Ditto ... | *For* " 3·55, + 0·10 and + 3 " *read* " 3·63, + 0·18 and + 5 " respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 15. |
| 98 | 2 | Ditto ... | *For* " 4·20, — 1·95 and — 32 " *read* " 4·23, — 1·92 and — 31 " respectively against Central India in the figure columns Nos. 1, 3 and 4 of table 15. |
| 98 | ... | Ditto ... | *For* " 6·61 and — 0·37 " *read* " 6·63 and — 0·35 " respectively against " mean of India when the size of the above areas is taken into account," in the figure columns Nos. 1 and 3 of table 15. |
| 104 | ... | Ditto ... | *For* " + 0·72 " *read* " + 0·64 " against rainfall departure from normal under heading " Seychelles " of table 9. |
| 108 | ... | Ditto ... | *For* " — 1·0 " *read* " — 1·1 " against Hyderabad in the figure column No. 1 of table 14. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*contd.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 109 | ... | October 1909 ... | *For* " 3·6, 4·6, 3·53, 3·87, — 0·34, and — 9 " *read* " 3·9, 4·8, 3·95, 4·05, — 0·10 and — 2 " respectively against Bengal in the figure columns Nos. 1 to 6 of table 16. |
| 109 | ... | Ditto ... | *For* " 1·5, 2·8, 1·32, 2·59, — 1·27 and — 49 " *read* " 1·7, 2·9, 1·35, 2·69, — 1·34 and — 50 " respectively against Bihar in the figure columns Nos. 1 to 6 of table 16. |
| 109 | ... | Ditto ... | *For* " 0·05, — 0·63, and — 93 " *read* " 0·06, — 0·62 and — 91 " respectively against United Provinces West, in the figure columns Nos. 3, 5 and 6 of table 16. |
| 109 | ... | Ditto ... | *For* "0·4" *read* "0·3" against North-West Frontier Province in the figure column No. 1 of table 16. |
| 109 | ... | Ditto ... | *For* " 0·08, —0·52 and —87" *read* " 0·07, —0·53 and —88" respectively against Central India West in the figure columns Nos. 3, 5 and 6 of table 16. |
| 119 | .. | November ... | *For* " 0·2, 0·7, 0·07, 0·56, — 0·49 and — 88 " *read* " 0·3, 0·8, 0·08, 0·63, — 0·55 and — 87 " respectively against Bengal in the figure columns Nos. 1 to 6 of table 13. |
| 120 | ... | Ditto ... | *For* " 0·16 and — 0·16 " *read* " 0·18 and — 0·18 " respectively against Bihar in the figure columns Nos. 4 and 5 of the 1st tabular statement. |
| 120 | ... | Ditto ... | *For* " 0·05, —0·39 and —89 " *read* " 0·04, —0·40 and —91" respectively against Kashmir in the figure columns Nos. 3, 5 and 6 of table 13. |
| 120 | ... | Ditto ... | *For* " 0·48 and —0·47 " *read* " 0·47 and —0·46" respectively against North-West Frontier Province in the figure columns Nos. 4 and 5 of table 13. |
| 120 | ... | Ditto ... | *For* " 0·48 and —0·47" *read* " 0·47 and —0·46" respectively against North-West Frontier Province in the figure columns Nos. 2 and 3 of table 14. |
| 128 | ... | December ... | *For* " 35·7, 46·9, 22·4, 43·0, —2·5, —2·7 and +0·2" *read* "36·6, 47·4, 21·5, 42·1, —1·3 —1·9 and +0·6" respectively against Baluchistan in the figure columns Nos. 2 to 8 of table 11. |
| 130 | ... | Ditto ... | *For* " 1·3, 0·46, 0·11, +0·35 and +318" *read* " 1·4, 0·51, 0·12, +0·39, and +315" respectively against Bengal in the figure columns Nos. 1, 3, 4, 5 and 6 of table 15. |
| 130 | ... | Ditto ... | *For* " 0·19, 0·13 and +46" *read* " 0·18, 0·12 and +50 " respectively against Bihar in the figure columns Nos. 3, 4 and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 3·2, 2·25, +0·86, and +62 " *read* " 2·9, 2·06, +0·67 and +48" respectively against Kashmir in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 2·6, 1·86, 6·49, +1·37 and +2·80" *read* " 2·5, 1·76, 0·50, +1·26, and +254" respectively against North-West Frontier Province in the figure columns Nos. 1, 3, 4, 5 and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 3·2, 1·42, +0·46 and +48" *read* " 3·1, 1·39, +0·43 and +45 " respectively against Baluchistan in the figure columns Nos. 1, 3, 5 and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 1·05, +0·65, and +163" *read* " 1·03, +0·63, and +157" respectively against Rajputana East in the figure columns Nos. 3, 5, and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 1·6, 0·69, +0·32, and +86 " *read* " 1·7, 0·73, +0·36 and +97 " respectively against Central India West in the figure columns Nos. 1, 3, 5, and 6 of table 15. |
| 131 | ... | Ditto ... | *For* " 2·9, 0·82, +0·37, and +82 " *read* " 2·4, 0·90, +0·45, and +100" respectively against Central India East in the figure columns Nos. 1, 3, 5 and 6 of table 15. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TEXT—*concld.*

| Page. | Column. | Part. | Correction. |
|---|---|---|---|
| 131 | ... | December 1909 | *For* "1·86, 0·49, +1·37, and +2·80" *read* "1·76, 0·50, +1·26, and +254" respectively against North-West Frontier Province in the figure columns Nos. 1 to 4 of table 16. |
| 131 | ... | Ditto ... | *For* "0·94, +0·61, and +185" *read* "0·93, +0·60 and +182 respectively against Rajputana in the figure columns Nos. 1, 3 and 4 of table 16. |
| 131 | 2 | Ditto ... | *For* "0·72, +0·32, and +80" *read* "0·79, +0·39 and +97" respectively against Central India in the figure columns Nos. 1, 3 and 4 of table 16. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## Tables A, B and C.

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ii | January 1909 . | A | Lahore . . . | Pressure . . | 4, 5, 7, 8 and 9. | *For* "29·362, 29·266, 29·305,—·021 and 30·018" *read* "29·369, 29·273, 29·312,—·014 and 30·025," respectively. |
| ii | Do. . . | A | Do. . . . | Temperature of air | 14 and 15 | *For* "35·9 and 35·8" *read* "34·1 and 37·6" respectively. |
| ii | Do. . . | A | Port Blair . . | Do. . | 12 | *For* "11" *read* "11·5." |
| iv | Do. . . | A | Quetta . . . | Pressure . . | 4, 5, 7, 8 and 9. | *For* "24·685, 24·616, 24·640,—·023 and 24·600" *read* "24·665, 24·596, 24·620,—·043 and 24·580", respectively. |
| iv | Do. . . | A | Simla . . . | Elevation of bar cistern and Pressure. | 3 to 5, and 7 to 9. | *For* "7,224, 23·093, 23·031, 23·052,—·053 and 23·014" *read* "7,232, 23·108, 23·046, 23·067,—·031 and 23·029" respectively. |
| iv | Do. . . | A | Do. . . . | Temperature of air | 14 and 15 | *For* "29·0 and 19·7." *read* "25·2 and 23·5", respectively. |
| iv | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| iv | Do. . . | A | Ootacamund . . | Temperature of air | 10, 12, 13, 15 and 18. | *For* "64·3, 18·5, 70·3, 32·4 and 54·4" *read* "64·8, 19·0, 70·8, 32·9 and 54·6", respectively. |
| v | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| vii | Do. . . | B | North-West Frontier Province. | Rainfall . . | 18 and 20 | *For* "0·29 and—1·08" *read* "0·30 and—1·07" respectively. |
| vii | Do. . . | B | Rajputana . . | Do. . . | 18 and 20 | *For* "0·25 and—0·08" *read* "0·24 and—0·09" respectively. |
| vii | Do. . . | B | Bombay . . | Departure of wind velocity. | 10 | *For* "0" *read* "+0·1." |
| vii | Do. . . | B | Hyderabad . . | Do. . . . | 10 | *For* "—2·0" *read* "—2·1." |
| viii | Do. . . | B | Dibrugarh . . | Pressure . . | 4 and 6 to 11 | *Reject* the figures already given. |
| viii | Do. . . | B | Sibsagar . . | Temperature of air | 12 | *For* "53·6" *read* "53·2." |
| viii | Do. . . | B | Tezpur . . . | Pressure . . | 4, 6, 7 and 9 | *For* "29·767, 29·995, 29·893 and 29·613" *read* "29·778, 30·006, 29·904 and 29·624", respectively. |
| viii | Do. . . | B | Do. . . | Temperature of air | 12 | *For* "54·2" *read* "53·7." |
| viii | Do. . . | B | Gauhati . . | Do. . . | 13, 17, 19, 20 and 24. | *For* "76·2, 62·6, 27·3, 81·5, and 37·9" *read* "75·5, 62·2, 26·6, 80·8 and 37·2" respectively. |
| ix | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* "1·5 and—0·2" *read* "1·1 and—0·6" respectively. |
| ix | Do. . . | B | Mandalay . . | Do. . . | 36 and 38 | *For* "2·0 and—0·1" *read* "2·2 and+0·1" respectively. |
| ix | Do. . . | B | Bhamo . . . | Hygrometry . . | 41 | *For* "9" *read* "99." |
| ix | Do. . . | B | Myitkyina . . | Wind velocity . | 36 | *For* "* 1·6" *read* "1·4." |
| ix | Do. . . | B | Dibrugarh . . | Do. . . | 36 | *Reject* the figures already given. |
| ix | Do. . . | B | Do. . . | Hygrometry . . | 41 | *For* "8" *read* "98." |
| ix | Do. . . | B | Sibsagar . . | Wind velocity . | 36 | *For* "1·" *read* "1·2." |
| ix | Do. . . | B | Cox's Bazar . . | Do. . . | 36 | *For* "* 2·" *read* "* 2·7." |
| x | Do. . . | B | Raniganj . . | Temperature of air | 24 | *For* "38·9" *read* "38·5." |
| x | Do. . . | B | Puri . . . | Pressure . . | 4, 6, 7 and 9 | *For* "30·005 (*e*), 29·968 (*e*), 30·090 and 29·910" *read* "30·022 (*e*), 29·985 (*e*), 30·107 and 29·927" respectively. |
| xi | Do. . . | B | Rangpur . . | Rainfall . . | 52 | *For* "—0·4" *read* "—0·48." |
| xi | Do. . . | B | Puri . . . | Wind direction . | 25 | *Insert* "5." |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| xii | January 1909. | B | Motihari | Elevation of bar cistern and Pressure. | 3 and 6 | *For* "224 and 30·004" *read* "221 and 30·001" respectively. |
| xiv | Do. | B | Patiala | Temperature of air | 20 | *For* "0·8" *read* "70·8." |
| xiv | Do. | B | Lahore | Pressure | 4 to 7 and 9 | *For* "29·327, —·022, 30·069, 29·525, and 29·164" *read* "29·334, —·015, 30·076, 29·532 and 29·171", respectively. |
| xiv | Do. | B | Karachi | Elevation of bar cistern. | 3 | *For* "30" *read* "13." |
| xiv | Do. | B | Do. | Temperature of air | 14, 16 and 18 | *For* "—3·4, +1·2 and—1·1" *read* "—2·2,—1·7 and —2·0" respectively. |
| xiv | Do. | B | Jodhpur | Pressure | 4 to 7 and 9 | *For* "29·278 ,—·0042, 30·098, 29·460 and 29·097" *read* "29·268,—·014, 30·088, 29·450 and 29·087" respectively. |
| xv | Do. | B | Mainpuri | Wind velocity | 36 and 38 | *For* "2·1 and + 0·5" *read* "1·8 and + 0·2" respectively. |
| xv | Do. | B | Khushab | Wind velocity | 36 and 38 | *For* "3·5 and +0·6" *read* "3·2 and +0·3" respectively. |
| xv | Do. | B | Karachi | Hygrometry | 42 | *For* "—1" *read* "—6". |
| xvi | Do. | B | Pachpadra | Pressure | 4 to 7 and 9 | *For* "29·682,—·018, 30·051, 29·856 and 29·508" *read* "29·652, —·048, 30·021, 29·826 and 29·478" respectively. |
| xvii | Do. | B | Veraval | Wind velocity | 36 and 38 | *For* "8·5 and + 2·6" *read* "7·7 and + 1·8" respectively. |
| xviii | Do. | B | Nizamabad | Elevation of bar cistern and Pressure. | 3, 5 and 6 | *For* "1,260,—·006 ? and 29·988" *read* "1,248, —·011 and 29·976" respectively. |
| xviii | Do. | B | Raichur | Pressure | 4 to 7 and 9 | *For* "28·676 (*f*),—·037 (*f*), 29·967 (*f*), 28·739 and 28·592" *read* "28·671 (*f*),—·042 (*f*), 29 962 (*f*), 28·734 and 28·587" respectively. |
| xix | Do. | B | Amraoti | Rainfall | 50, 52, 53, 55 and 56 | *For* "0·16,—0·19, 1·06, +0·14 and 0·16" *read* "0·42+0·07, 2·76, +1·84 and 0·42," respectively. |
| xix | Do. | B | Hyderabad (Dn) | Wind velocity | 36 and 38 | *For* "3·2 and —0·4" *read* "2·7 and —0·9" respectively. |
| xix | Do. | B | Hanumkonda | Rainfall | 51 and 52 | *For* "0·27 and —0·23" *read* "0·23 and —0·19" respectively. |
| xx | Do. | B | Bellary | Temperature of air | 21 and 23 | *For* "28th and 14th" *read* "24th and 28th, and 13th" respectively. |
| xxii | Do. | B | Quetta | Pressure | 4 to 7 and 9 | *For* "24·664*d*, —·023*d*, 24·624*d*, 24·823 and 24·562" *read* "24·644*d*, —·043*d*, 24·604*d*, 24·803 and 24 542," respectively. |
| xxii | Do. | B | Quetta | Temperature of air | 15 to 19, 22 and 24 | *For* "27·3,—2·0, 36·9, —3·5, 19·1, 15·5 and 50·6" *read* "28·3, —1·0, 37·3, —3·9, 18·1, 16·5 and 49·6" respectively. |
| xxii | Do. | B | Chaman | Pressure | 4 to 7 and 9 | *For* "25·740, —·032, 25·702, 25·887 and 25·606" *read* "25·753, —·019, 25·715, 25·900 and 25·619" respectively. |
| xxiii | Do. | B | Dras | Rainfall | 51 and 52 | *For* "2·68 and +0·88" *read* "2·59 and + 0·97" respectively. |
| xxiii | Do. | B | Chitral | Wind velocity | 36 | *For* "8·3" *read* "0·5". |
| xxiii | Do. | B | Cherat | Rainfall | 54 | *For* "3·0" *read* "3·07". |
| xxiv | Do. | B | Simla | Elevation of bar cistern and Pressure. | 3 and 5 | *For* "7,224 and —·057" *read* "7,232 and —·050" respectively. |
| xxiv | Do | B | Darjeeling | ..... | ... | *Reject* the figures from all the columns. |
| xxiv | Do. | B | Shillong | Temperature of air | 22 | *For* "30·" *read* "30·2." |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| xxiv | January 1909 . | B | Mercara . . | Temperature of air | 24 | *For* "32·4" *read* "32·5." |
| xxiv | Do. . . . | B | Kodaikanal . . | Do. . . | 13, 14, 17 to 21 and 24. | *For* "63·3, +0·4, 56·0, +1·2, 14·5, 70·5, 1st and 26·0" *read* "63·0, +0·1, 55·9, +1·0, 14·2, 69·0, 26th and 24·5" respectively. |
| xxiv | Do. . . . | B | Pharijong . . | Do. . . | 12, 13, 15, 17, and 19 to 24. | *For* "15·7 (*j*), 41·5, 0·5, 21·0, 41·0, 61·3, 29th, 0·1, 5 days and 61·2" *read* "14·4, 76·3 †, —7·8, 33·8 †. 44·1, 43·1, 1st, —25·0, 12th and 68·1" respectively. |
| xxiv | Do. . . . | B | Gartok . . | Station . . | ... | *Insert* "C" with the station Gartok. |
| xxiv | Do. . . . | B | Do. . | Pressure . . | 4, 7 and 9 | *For* "17·074, 17·216 and 16·956" *read* "17·398, 17·540 and 17·280," respectively. |
| xxiv | Do. . . . | B | Do. . . | Foot note . . | ... | *For* "(*i*) mean of 4 days" *read* "(*i*)" mean of 24 days." |
| xxiv | Do. . . . | B | Do. . . . | Do. . . | ... | *Insert* "† mean of 23 days." |
| xxv | Do. . . . | B | Kailang . . | Wind velocity . | 36 and 38 | *For* "*9·9 and + 9·0" *read* "* 0·9 and 0" respectively. |
| xxv | Do. . . . | B | Sarain . . | Wind direction . | 31 | *Insert* "6." |
| xxv | Do. . . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| xxvi | Do. . . . | B | Baghdad . . | Pressure . . | 6 | *For* "30·242" *read* "30·139" |
| xxvii | Do. . . . | B | ..... | Page no. . . | . | *For* "xxvi" *read* "xxvii." |
| xxvii | Do. . . . | B | Zanzibar . . | Rainfall . . | 51 and 52 | *For* "3·37 and + 0·91" *read* "2·94 and +1·34" respectively. |
| xxxi | Do. . . . | C | ..... | Do. . . | 45 | *For* "Normal...period 31st December" *read* "Normal...period 1st December" in the heading of column 45. |
| xxxiv | February . . | A | Lahore . . | Pressure . . | 4, 5, 7, 8 and 9 | *For* "29·338, 29·244, 29·282, +·001 and ·986" *read* "29·345, 29·251, 29·289, +·008 and ·993" respectively. |
| xxxiv | Do. . . . | A | Quetta . . | Do. . . | ... | *For* "24·701, 24·634, 24·661, +·014 and 24·621" *read* "24·681, 24·614, 24·641, —·006 and 24·601" respectively. |
| xxxvi | Do. . . . | A | Simla . . . | Elevation of bar cistern and Pressure. | 3, 4, 5, 7, 8 and 9. | *For* "7,224, 23·106, 23·058, 23·075, —·003 and 23·037" *read* "7,232, 23·121, 23·073, 23·090, +·019 and 23·052" respectively. |
| xxxvi | Do. . . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| xxxvi | Do. . . . | A | Mount Abu . . | Temperature of air | 19 | *For* "—0·6" *read* "—0·8." |
| xxxvii | Do. . . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| xxxvii | Do. . . . | B | Burma . . | Wind velocity . | 10 | *For* "— 0·5" *read* "—0·6." |
| xxxix | Do. . . . | B | North-West Frontier Province. | Rainfall . . | 18 to 20 . | *For* "2·11, 1·34 and +0·77" *read* "2·21, 1·35 an + 0·86" respectively. |
| xxxix | Do. . . . | B | Rajputana . . | Do. . . . | 18 and 20 . | *For* "0·07 and —0·15" *read* "0·06 and —0·16" respectively. |
| xxxix | Do. . . . | B | Bombay . . | Wind velocity . | 10 | *For* "—0·2" *read* "—0·3." |
| xxxix | Do. . . . | B | Hyderabad . . | Do. . . . | 10 | *For* "—1·6" *read* "—1·8." |
| xl | Do. . . . | B | Tavoy . . . | Pressure . . | 9 | *For* "29·835" *read* "29·885." |
| xl | Do. . . . | B | Dibrugarh . . | Do. . . . | 4 and 6 to 11 | *Reject* the figures already given. |
| xl | Do. . . . | B | Tezpur . . | Do. . . . | 4, 6, 7 and 9 | *For* "29·773, 29·999, 29·911 and 29·590" *read* "29·784, 30·010, 29·922 and 29·601" respectively. |
| xl | Do. . . . | B | ..... | Temperature of air | 12 | *For* "57·4" *read* "56·9." |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| xl | February 1909 . | B | Gauhati . . | Pressure . . | 9 | *For* " 29·635 " *read* " 29·665. " |
| xl | Do. . . | B | Do. . . | Temperature of air | 13, 15, 17, 19, 20 and 24. | *For* " 81·4, 49·9, 65·6, 31·5, 90·5 and 49·9 " *read* " 80·7, 49·7, 65·2, 31·0, 89·8 and 49·2 " respectively. |
| xl | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* " 1·4 and —0·5 " *read* " 1·0 and —0·9 " respectively. |
| xli | Do. . . | B | Minbu . . . | Do. . | 36 and 38 | *For* " 2·9 and—3·4" *read* "2·8 and—3·5" respectively. |
| xli | Do. . . | B | Mandalay . . | Do. . . | 36 and 38 | *For* "2·0 and—0·4" *read* " 2·2 and—0·2 " respectively. |
| xli | Do . . | B | Myitkyina . . | Do. . . | 36 | *For* " 2·4* " *read* "2·0." |
| xli | Do. . . | B | Dibrugarh . . | Do. . . | 36 | *Reject* the figures already given. |
| xlii | Do. . . | B | Puri . . . | Pressure . . | 4, 6, 7 and 9 | *For* " 29·690, 29·953, 30·091 and 29·868 " *read* " 30·008 29·971, 30·109, and 29·886 " respectively. |
| xlii | Do. . . | B | Motihari . . | Elevation of bar cistern and Pressure. | 3 and 6 | *For* " 224 and 30·096 " *read* " 221 and 30·003 " respectively. |
| xliv | Do. . . | B | Lahore . . . | Pressure . . | 4 to 7 and 9 | *For* " 29·306?, + ·009?, 30·039?, 29·442 and 29·101 " *read* " 29·313?, — ·016?, 30·046?, 29·449 and 29·108 " respectively. |
| xliv | Do. . . | B | Karachi . . | Temperature of air | 14, 16 and 18 | *For* " —0·8, + 2·5? and + 0·9? " *read* " + 1·1, + 0·1 and + 0·6 " respectively. |
| xliv | Do. . . | B | Jodhpur . | Pressure . . | 4 to 7 and 9 | *For* " 29·271, + ·042, 30·083, 29·399 and 29·067 " *read* " 29·261, + ·032, 30·073, 29·389 and 29·057 " respectively. |
| xliv | Do. . . | B | Pachpadra . . | Do. . . . | 4 to 7 and 9 | *For* " 29·683, + ·055, 30·049, 29·889 and 29·479 " *read* " 29·653, + ·025, 30·019, 29·859 and 29·449 " respectively. |
| xlv | Do. . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* " 2·0 and 0 " *read* " 1·7 and — 0·3 " respectively. |
| xlv | Do. . . | B | Khushab . . | Do. . . . | 36 and 38 | *For* " 4·3 and + 1·0 " *read* " 4·1 and + 0·8 " respectively. |
| xlv | Do. . . | B | Karachi . . | Hygrometry . . | 42 | *For* " — 8 " *read* " — 14." |
| xlvi | Do. . . | B | Nizamabad . . | Elevation of bar cistern and Pressure. | 3, 5 and 6 | *For* " 1,260, — ·020 and 29·967 " *read* "1,248, — ·015 and 29·955 " respectively. |
| xlvii | Do. . . | B | Veraval . . . | Wind velocity . | 36 and 38 | *For* " 8·9* and + 1·8 " *read* " 8·0 and + 0·9 " respectively. |
| xlvii | Do. . . | B | Amraoti . . | Rainfall . . | 50, 52, 53, 55 and 56. | *For* " 0·03, — 0·18, 1·09, — 0·04 and 0·03 " *read* " 0·08, —0·13, 2·84, +1·71 and 0·08 " respectively. |
| xlviii | Do. . . | B | Raichur . . | Pressure . . | 4 to 7 and 9 | *For* " 28·655, —·002, 29·934, 28·723 and 28·580 " *read* " 28·650, — ·007, 29·929, 28·718 and 28·575 " respectively. |
| xlix | Do. . . | B | Hyderabad (Dn.) . | Wind velocity . | 36 and 38 | *For* " 3·5 and —0·6 " *read* " 2·9 and —1·2 " respectively |
| l | Do. . . | B | Quetta . . . | Pressure . . | 4 to 7 and 9 | *For* " 24·679, +0·19, 24·639, 24·816 and 24·460 " *read* " 24·659, —·001, 24·619, 24·796 and 24·440 " respectively. |
| l | Do. . . | B | Do. . . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 30·4, —1·3, 41·3, —1·1, 21·8, 19·0 and 49·1 " *read* " 31·4, —0·3, 41·8, —0·6, 20·8, 20·0 and 48·1 " respectively. |
| | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* " 25·748, + ·025, 25·710, 25·900 and 25·519 " *read* " 25·761, + ·038, 25·723, 25·913 and 25·532 " respectively. |

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## TABLES A, B AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| 1 | February 1909 . | B | Simla . . . | Elevation of bar cistern and Pressure. | 3 and 5 | *For* "7,224 and —·004" *read* "7,232 and +·003" respectively. |
| 1 | Do. . . | B | Darjeeling . . | Do. . . . | 3 and 5 | *Reject* the figures from all the columns. |
| 1 | Do. . . | B | Kodaikanal . . | Pressure . . | 10 | *For* "st" *read* "1st." |
| li | Do. . . | B | Darjeeling . . | Do. . . | 10 | *Reject* the figures from all the columns. |
| lii | Do. . . | B | Gartok . . . | Do. . | 4, 6, 7 and 9 | *For* "17·163, 17·376 and 16·986" *read* "17·487, 17·700 and 17·310" respectively. |
| lii | Do. . . | B | Do. . . . | Station . . | 2 | *For* "Gartok" *read* "Gartok (*c*)." |
| lii | Do. . . | B | Baghdad . . | Pressure . . | 6 | *For* "30·129" *read* "30·026." |
| lii | Do. . . | B | Do. . . . | Temperature of air | 24 | *For* "33·3" *read* "33·8." |
| liii | Do. . . | B | Beirut . . . | Rainfall . . | 53 | *For* "1·74**" *read* "17·49·" |
| liii | Do. . . | B | Do. . . . | Foot note . . | 53 | *Omit* "**Rainfall for January 1909 not received." |
| lvi | Do. . . | C | Kargil . . . | Station . . | 2 | *For* "Karjil" *read* "Kargil." |
| lvi | Do. . . | C | Do. . . . | Temperature of air | 4 to 15 | *Reject* the figures from all the columns. |
| lx | March . . . | A | Rangoon . . | Pressure . | 8 | *For* "—·001" *read* "—·019." |
| lx | Do. . . | A | Lahore . . . | Do. . . | 4, 5, 7, 8 and 9 | *For* "29·237, 29·143, 29·184, +·017, and ·865" *read* "29·244, 29·150, 29·191, +·024, and ·872" respectively. |
| lx | Do. . . | A | Udaipur. . . | Temperature of air | 11, 12 and 18 | *For* "59·4(*a*), 31·3 and 75·3(*a*)" *read* "59·6(*a*), 31·1, and 75·4(*a*)" respectively. |
| lx | Do. . | A | Periyakulam . | Do. . . | 11, 12, 14, 15 and 18 | *For* "67·3, 28·8, 55·6 43·6 and 81·8" *read* "67·7, 28·4, 58·6, 40·9 and 81·9" respectively. |
| lxi | Do. . . | A | Udaipur . . | Vapour tension . | 24 and 27 | *For* "·276(*a*) and 270" *read* "·274(*a*) and ·269" respectively. |
| lxi | Do. . . | A | Do. . . . | Humidity - . | 29 | *For* "55(*a*)" *read* "54(*a*)." |
| lxi | Do. . . | A | Periyakulam . | Vapour tension . | 24 and 27 | *For* "·488 and ·464" *read* "·484 and ·463" respectively. |
| lxi | Do. . . | A | Do. . . . | Humidity . . | 29 | *For* "71" *read* "70." |
| lxii | Do. . . | A | Quetta . . . | Pressure . . | 4, 5, 7, 8 and 9 | *For* "29·714, 24·639, 24·670, +·043 and 24·629" *read* "24·694, 24·619, 24·650, +·023, and 24·609" respectively. |
| lxii | Do. . . | A | Simla . . . | Elevation of bar cistern and Pressure. | 3, 4, 5, 7, 8 and 9. | *For* "7, 224, 23·137, 22·089, 23·106, +·001 and 23·068 *read* "7,23[illegible], 23·152, 23·104, 23·121, +·023 and 23·083" respectively. |
| lxii | Do. . . | A | Darjeeling . . | ... | ... | *Reject* the figures from all the columns. |
| lxii | Do. . . | A | Ootacamund . . | Elevation of bar cistern. | 3 | *For* "7, 322" *read* "7,327." |
| lxiii | Do. . . | A | Chakrata . . | Vapour tension . | 28 | *For* "—·305" *read* "—·035." |
| lxiii | Do. . . | A | Darjeeling . . | ... | ... | *Reject* the figures from all the columns. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| lxv | March 1909 . . | B | Burma . . . | Wind velocity . | 10 | *For* " —0·3" *read* "—0·4." |
| lxv | Do. . . . | B | North-West Frontier Province. | Rainfall . . . | 18 and 20 | For "0·65 and —1·11" *read* "0·59 and —1·17" respectively. |
| lxv | Do. . . . | B | Bombay . . . | Wind velocity . | 10 | *For* " —0·9" *read* " —1·0." |
| lxv | Do. . . . | B | Hyderabad . . | Do. . . . | 10 | *For* "—1·8" *read* "—1·9." |
| lxvi | Do. . . . | B | Dibrugarh . . | Pressure . | 4, 6, 9, 10, and 11 | *For* "29·534 (d), 29·859(d), 29·317, 8th, and ·336" *read* "29 550(n), 29 874(n), 29·415, 11th and ·238," respectively. |
| lxvi | Do. . . . | B | Tezpur . . . | Do. . . . | 4, 6, 7 and 9 | *For* "29 627, 29 845, 29·735, and 29·455" *read* "29·638, 29·856, 29·746, and 29 466" respectively. |
| lxvi | Do. . . . | B | Tezpur . . . | Temperature of air | 12 | *For* "67 6" *read* "67·1." |
| lxvi | Do. . . . | B | Gauhati . . . | Do. . . | 13, 17, 19, 20 and 24. | *For* "93·9, 76·3, 35·1, 102·0, and 51·9" *read* "93·2, 76·0, 34·4, 101·3 and 51·2, respectively. |
| lxvi | Do. . . . | B | ..... | Foot note . . | ... | *Insert* "(n) mean of 20 days." |
| lxvii | Do. . . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* "2·8 and —0·3" *read* "2·1 and —1·0" respectively. |
| lxvii | Do. . . . | B | Minbu . . . | Do. . | 36 and 38 | *For* "3·6 and —3·8" *read* "3·5 and —3·9" respectively, |
| lxvii | Do. . . . | B | Mandalay . . | Do. . | 36 and 38 | *For* "4·0 and —0·2" *read* "4·3 and +0·1" respectively |
| lxvii | Do. . . . | B | Lashio . . . | Rainfall . . . | 52 | *For* " —0·58" *read* " —0·53." |
| lxvii | Do. . . . | B | Myitkyina . . | Wind velocity . | 36 | *For* "*3·3" *read* "2·8." |
| lxvii | Do. . . . | B | Dibrugarh . . | Do. . | 36 | *For* "2 2 (*d*)" *read* "2·6 (*n*)" |
| lxviii | Do. . . . | B | Naya Dumka. . | Temperature of air | 12, 13, 17 and 19. | *For* "75 4, 96 3, 80·8, and 31·1" *read* "75·3, 96·2, 80 7 and 31·0" respectively. |
| lxviii | Do. . . . | B | Puri . . . | Pressure . . | 4, 6, 7 and 9 | *For* "29 892, 29·855, 29·979 and 29·810," *read* "29 908, 29·871, 29·995, and 29·826" respectively. |
| lxix | Do. . . . | B | Naya Dumka. . | Hygrometry . . | 43 | *For* "·249," *read* "·245." |
| lxx | Do. . . . | B | Motihari. . . | Elevation of bar cistern and Pressure. | 3 and 6 | *For* "224 and 29·842" *read* "221 and 29·839" respectively. |
| lxx | Do. . . . | B | Motihari. . . | Temperature of air | 12 | *For* "63·9 (*d*)," *read* "63·3 (*e*)." |
| lxx | Do. . . . | B | Buxar . . | Do. . . | 21 | *For* "2th" *read* "26th." |
| lxxi | Do. . . . | B | Motihari. . . | Hygrometry . . | 41 and 43 | *For* "58 (*e*) and ·355 (*e*)" *read* "57(*f*) and ·338 (*f*) respectively. |
| lxxi | Do. . . . | B | ..... | Foot note . . | ... | *Insert* "(*f*)" mean of 28 days." |
| lxxii | Do. . . . | B | Lahore . . . | Pressure . . | 4 to 7 and 9 | *For* "29·213, +·016, 29·921, 29·396 and 29·042," *read* "29 220, +·023, 29·928, 29 403, and 29·049," respectively. |
| lxxii | Do. . . . | B | Karachi . . . | Temperature of air | 14, 16 and 18 | *For* " -2 4, +0·6, and —0·9" *read* " +1·7, —1·3, and +0·2," respectively. |
| lxxii | Do. . . . | B | Jodhpur. . . | Pressure . . | 4 to 7 and 9 | *For* "29·183, +·036, 29·972, 29·320, and 29·058" *read* "29·173, +·026, 29·962, 29·310, and 29·048" respectively. |
| lxxiii | Do. . . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* "3·1 and +0·6" *read* "2·7 and +0·2," respectively. |
| lxxiii | Do. . . . | B | Ludhiana . . | Do. . . | 36 and 38 | *For* "1·8 and —0·4" *read* "2·4, and +0·2," respectively. |
| lxxiii | Do. . . . | B | Khushab . . | Do. . . | 36 and 38 | *For* "4·5 and —0·6" *read* "4·2 and —0·9," respectively. |

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## TABLES A, B AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| lxxiii | March 1909 . . | B | Karachi . . . | Hygrometry . . | 42 | *For* " —8" *read* "—13." |
| lxxiv | Do. . . . | B | Udaipur . . | Temperature of air | 13, 14, 18 and 19. | *For* "90·2, +1·1, 0 and 30·6" *read* "90·3, +1·2, +0·1 and 30·7," respectively. |
| lxxv | Do. . . . | B | Veraval . . . | Wind velocity . | 36 and 38 | *For* "9·9, and + 2·2," *read* "8·9, and +1·2" respectively. |
| lxxvi | Do. . . . | B | Nizamabad . . | Elevation of bar cistern and Pressure. | 3, 5, and 6 | *For* " 1,260, —·020(*d*)? and 29·896(*d*)" *read* "1,248, —·025(*d*) and 29·884(*d*)," respectively. |
| lxxvi | Do. . . . | B | Raichur . . . | Pressure . . | 5 | *For* " +·007" *read* "—·003." |
| lxxvii | Do. . . . | B | Amraoti . . | Rainfall . . | 50, 52, 53, 55 and 56. | *For* " 0·02,—0·30, 1·11,—0·34 and 0·02" *read* " 0·05" —0·27, 2·89, +1·44 and 0 05, respectively. |
| lxxvii | Do. . . | B | Hyderabad (Dn.) . | Wind velocity . | 36 and 38 | *For* " 3·2 and —1·0" *read* "2·7 and —1·5" respectively. |
| lxxviii | Do. . . | B | Mysore . . | Temperature of air | 13, 14, 17 to 21 and 24. | *For* " 94·3, +0·8, 80·3, —0·1, 2·81, 98·0, 30th and 36·5" *read* "94·2, +0·7, 80·2, —0·2, 28·0, 96·5, 11th and 35·0" respectively. |
| lxxviii | Do. . . | B | Masulipatam . | Do. . . . | 17 | *Insert* "81·4". |
| lxxix | Do. . . | B | Vellore . . . | Wind velocity . | 36 | *For* " 0·2" *read* "4·0". |
| lxxx | Do. . . | B | Srinagar . . | Temperature of air | 20 and 24 | *For* " 68·6 and 39·5" *read* " 63·4 and 34·3" respectively. |
| lxxx | Do. . . | B | Leh . . . | Do. . . | 13, 14 and 17 to 19. | *For* " 44·8, +1·7, 33·0, +0·9 and 23·6" *read* " 44·9, +1·8, 33·1, —1·0, and 23·7," respectively. |
| lxxx | Do. . . | B | Quetta . . . | Pressure . . | 4 to 7 and 9 | *For* " 24·700, +·047, 24·660, 24·814 and 24·599" *read* " 24·680, +·027, 24·640, 24·794 and 24·579" respectively. |
| lxxx | Do. . . | B | Do. . . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 36·5,—3·5, 50·2,—2·1, 27·3, 29·0 and 46·1" *read* " 37·5, —2·5, 50·7, —1·6, 26·3, 30·0 and 45·1," respectively. |
| lxxx | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* " 25·746, +·030, 25·708, 25·868 and 25·635" *read* " 25·759, +·043, 25·721, 25·881 and 25·648" respectively. |
| lxxxi | Do. . . | B | Murree . . | Hygrometry . . | 42 | *For* " —1·0" *read* " —10". |
| lxxxii | Do. . . | B | Simla . . . | Elevation of bar cistern and Pressure. | 3 and 5 . | *For* " 7,224 and +·004" *read* " 7,232 and +·011," respectively. |
| lxxxii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| lxxxii | Do. . . | B | Mount Abu . . | Temperature of air | 13, 14, 17, 18 and 19. | *For* " 77·6, —0·1, 69·9, +0 3 and 15·4" *read* " 77·8, +0·1, 70·0, +0·4 and 15·6" respectively. |
| lxxxii | Do. . . | B | Gartok (*c*) . . | Pressure . . | 4, 7 and 9 | *For* " 17·266, 17·411 and 17·086" *read* "17·590, 17·735 and 17·410" respectively. |
| lxxxiii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| lxxxv | Do. . . | B | Kerman . . | Rainfall . . | 47, 50, 53 and 56. | *For* " 0,0,0† and 0" *insert* " No raingauge". |
| lxxxv | Do. . . | B | Ispahan . . | Do. . . | 53 and 55 | *For* " 1·94† and —0·02" *read* " 5·00 and +3·04" respectively. |
| lxxxv | Do. . . | B | Beirut . . | Do. . . | 53 | *For* " 16·46*" *read* " 19·21". |
| lxxxv | Do. . . | B | ..... | Foot note . . | ... | *Omit* " * Rainfall for January 1909 wanting". |
| lxxxv | Do. . . | B | ..... | Do. . . | ... | *Omit* " † Rainfall for December 1908 and January 1909 wanting." |
| lxxxv | Do. . . | B | ..... | Do. . . | ... | *Omit* " † Rainfall for the months of January and February 1909 wanting." |
| xcii | April . . . | A | Rangoon . . | Pressure . . | 8 | *For* " +·022" *read* " +·004". |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B, AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| xcii | April 1909 . . | A | Lahore . . | Pressure . . | 4, 5, 7, 8 and 9. | *For* "29·107, 29·006, 29·050, +·015 and ·717" *read* "29·114, 29·013, 29·057, +·022 and ·724" respectively. |
| xcii | Do. . . | A | Quetta . . | Do. . . | Do. . | *For* "24·629, 24·562, 24·588, —·011 and 24·548" *read* "24·609, 24·542, 24·568, —·031 and 24·528" respectively. |
| xcii | Do. . . | A | Do. . . . | Temperature of air | 11, 12, 14, 15, 18 and 19. | *For* "45·5, 29·2, 38·4, 47·1, 60·7 and —0·2" *read* "46·5, 28·2, 37·4, 46·1, 61·2 and +0·3" respectively. |
| xciii | Do. . . | A | Do. . . . | Vapour tension and humidity. | 24, 27, 28, 29, 32 and 33. | *For* "·25[illegible], ·228, —·023, 82, 51 and +3" *read* "·240 ·223, —·028, 76, 48 and 0" respectively. |
| xciv | Do. . . | A | Simla . . . | Elevation of bar cistern and Pressure. | 3, 4, 5, 7, 8 and 9. | *For* "7,224, 23·101, 23·051, 23·068, —·030 and 23·030" *read* "7,232, 23·116, 23·066, 23·083, —·008, and 23·045" respectively. |
| xciv | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| xcv | Do. . . | A | Do. . . | ..... | ... | Ditto ditto. |
| xcv | Do. . . | A | Do. . . | Page No. . . | ... | *For* "XXV" *read* "XCV". |
| xcvii | Do. . . | B | Burma . . | Wind velocity . | 10 | *For* "—1·4" *read* "—1·5". |
| xcvii | Do. . . | B | North-West Frontier Province. | Rainfall . . | 18 and 20 | *For* "1·12 and —0·19" *read* "1·18 and —0·13" respectively. |
| xcvii | Do. . . | B | Central India . | Do. . . . | Do. | *For* "1·54 and +1·47" *read* "1·68 and +1·61" respectively. |
| xcvii | Do. . . | B | Bombay . . | Wind velocity . | 18 and 20 | *For* "+0·7" *read* "+0·6". |
| xcvii | Do. . . | B | Hyderabad . . | Do. . . | 10 | *For* "—1·7" *read* "—1·9". |
| xcviii | Do. . . | B | Sibsagar . . | Pressure . . | 5 | *Insert* "+·049". |
| xcviii | Do. . . | B | Do. . . | Temperature of air | 15, 16, 22 and 24. | *For* "64·9X, —4·0X, 61·6 and 27·0" *read* "65·7 —3·2, 62·4 and 26·2" respectively. |
| xcviii | Do. . . | B | Tezpur . . | Pressure . . | 4, 6, 7 and 9 | *For* "29·656, 29·873, 29·765 and 29·546" *read* "29·667 29·884, 29·776 and 29·557" respectively. |
| xcviii | Do. . . | B | Do. . . | Temperature of air | 12 | *For* "71·5" *read* "71·0". |
| xcviii | Do. . . | B | Gauhati . . | Do. . | 13, 17, 19, 20 and 24. | *For* "87·0, 77·4, 19·1, 100·5 and 36·4" *read* "86·3, 77·1, 18·4, 99·8, and 35·7" respectively. |
| xcix | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* "3·1 and —1·5" *read* "2·3 and —2·3" respectively. |
| xcix | Do. . . | B | Minbu . | Do. . | Do. . | *For* "4·4 and —5·3" *read* "4·3 and —5·4" respectively. |
| xcix | Do. . . | B | Mandalay . . | Do. . | Do. . | *For* "4·2 and —2·1" *read* "4·5 and —1·8" respectively. |
| xcix | Do. . . | B | Myitkyina . . | Do. . | 36 | *For* "3·7§" *read* "3·1". |
| xcix | Do. . . | B | Rangpur . . | Wind direction . | 25 | *Insert* "16". |
| c | Do. . . | B | Puri . . . | Pressure . . | 4, 6, 7 and 9 | *For* "29·838, 29·801, 29·920 and 29·748" *read* "29·858, 29·821, 29·940 and 29·768" respectively. |
| c | Do. . . | B | Motihari . . | Do. . . . | 6 | *For* "29·810" *read* "29·813". |
| cii | Do. . . | B | Lahore . . | Do. . . . | 4 to 7 and 9 | *For* "29·084?, +·018?, 29·770, 29·207 and 28·911" *read* "29·091, +·025, 29·777, 29·214 and 28·918" respectively. |
| cii | Do. . . | B | Karachi . . | Temperature of air | 14, 16 and 18 | *For* "—4·8, +1·4 and —1·7" *read* "—0·5, +1·2 and +0·4" respectively. |
| ciii | Do. . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* "3·2 and +0·8" *read* "2·7 and +0·3" respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TABLES A, B, AND C —*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ciii | April 1909 . . | B | Ludhiana . . | Wind velocity . | 36 and 38 | *For* "1·9 and —0·5" *read* "2·1 and —0·3" respectively. |
| ciii | Do. . . | B | Khushab . . | Do. . | Do. . | *For* "6·6 and —0·1" *read* "6·2 and —0·5" respectively. |
| ciii | Do. . . | B | Karachi . . | Hygrometry . | 42 | *For* "0" *read* "—5". |
| cv | Do. . . | B | Veraval . . | Wind velocity . | 36 and 38 | *For* "10·5 and +2·1" *read* "9·5 and +1·1" respectively. |
| cv | Do. . . | B | Amraoti . . | Rainfall . . | 47, 49, 50, 52, 53, 55 and 56. | *For* "1, +0·20, 0·20, —0·03, 1·31, —0·37 and 0·10" *read* "3, +2·20, 0·52, +0·29, 3·41, +1·73 and 0·26" respectively. |
| cvi | Do. . . | B | Nizamabad . . | Elevation of bar cistern and Pressure. | 3, 5 and 6 | *For* "1,260, —0·11? and 29·803*" *read* "1,248, —·006 and 29·791" respectively. |
| cvii | Do. . . | B | Hyderabad (Deccan.) | Wind velocity . | 36 and 38 | *For* "4·1 and —0·4" *read* "3·4 and —1·1" respectively. |
| cvii | Do. . . | B | Vellore . . | Hygrometry . | 41 | *For* "76" *read* "72". |
| cvii | Do. . . | B | Masulipatam . | Rainfall . . | 56 | *For* "·32" *read* "2·32". |
| cviii | Do. . . | B | Quetta . . . | Pressure . . | 4 to 7 and 9 | *For* "24·622, —·010, 24·582, 24·745 and 24·479" *read* "24·602, —·030, 24·562, 24·725 and 24·459" respectively. |
| cviii | Do. . . | B | Do. . . . | Temperature of air | 15 to 19, 22 and 24. | *For* "45·5, —0·8, 60·2, —0·1, 29·4, 36·5 and 47·1" *read* "45·5, +0·2, 60·7, +0·5, 28·4, 37·5 and 46·1" respectively. |
| cviii | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 & 9 . | *For* "25·651, —·045, 25·613, 25·818 and 25·537" *read* "25·664, —·032, 25·626, 25·831 and 25·550" respectively. |
| cviii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cviii | Do. . . | B | Maymyo . . | Pressure . . | 4 to 6 | *For* "26·146, +·013 and 26·391" *read* "26·448 †, +·015 and 26·393 †," respectively. |
| cix | Do. . . | B | P. V. Fraser . . | Rainfall . . | 47 | *For* "7" *read* "6". |
| cix | Do. . . | B | Chitral . . | Wind velocity . | 36 | *For* "7·5" *read* "2·0". |
| cix | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cix | Do. . . | B | Maymyo . . | Wind direction and Wind velocity | 25, 34 & 36. | *For* "18, S 23°E and 3·5" *read* "17, S 23°E† and 3·5†" respectively. |
| cx | Do. . . | B | Gartok . . | Pressure . . | 4, 6, 7 & 9 | *For* "17·291, 17·257, 17·411 and 17·136" *read* "17·615, ..., 17·735 and 17·460" respectively. |
| cx | Do. . . | B | Do. . . | Station . . | 2 | *For* "Gartok" *read* "Gartok (c)". |
| cx | Do. . . | B | Baghdad . . | Elevation of bar cistern. | 3 | *For* "128" *read* "127". |
| cxi | Do. . . | B | Beirut . . | Rainfall . . | 53 | *For* "18·02 (q)" *read* "20·77". |
| cxi | Do. . . | B | ..... | Foot note . . | ... | Omit Footnote (q). |
| cxi | Do. . . | B | ..... | Do. . . | ... | Omit "(q) Rainfall for January is wanting". |
| cxviii | May . . | A | Rangoon . . | Pressure . . | 8 | *For* "+·016" *read* "—·002". |
| cxviii | Do. . . | A | Quetta . . | Do. . . | 4, 5, 7, 8 & 9 | *For* "24·615, 24·550, 24·574, +·020 and 24·534" *read* 24·595, 24·530, 24·554, 0 and 24·514" respectively. |
| cxviii | Do. . . | A | Do. . . | Temperature of air | 11, 12, 14, 15 18 & 19. | *For* "47·0, 34·4, 35·0, 57·9, 64·3 and —3·7" *read* "48·0 33·4, 36·0, 56·9, 64·8 and —3·2" respectively. |
| cxix | Do. . . | A | Do. . . | Vapour tension and humidity . | 24, 27, 28, 29, 32 and 33. | *For* "·243, 195, —·079, 73, 37 and —4" *read* "·225, ·189, —·085, 67, 35 and —6", respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TABLES A, B, AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cxx | May 1909. . . | A | Simla . . | Pressure . . | 4, 5, 7, 8 and 9 | *For* "23·083, 23·043, 23·054,—·001 and 23·016" *read* "23·098, 23·058, 23·069, +·014 and 23·031" respectively. |
| cxx | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cxxi | Do. . . | A | Do. . . | ..... | ... | Do. Do. Do. |
| cxxiii | Do. . . | B | Eastern Bengal and Assam. | Rainfall . . | 19 and 20 | *For* "11·72 and —1·72" *read* "11·76 and —1·76" respectively. |
| cxxiii | Do. . . | B | North-West Frontier Province. | Do. . . | 18 & 19 | *For* "0·23 and 0·72" *read* "0·24 and 0·73" respectively. |
| cxxiii | Do. . . | B | Rajputana . . | Do. . . | 18 & 20 | *For* "0·20 and —0·20" *read* "0·22 and —0·18" respectively. |
| cxxiii | Do. . . | B | Hyderabad . . | Wind velocity . | 10 | *For* "—1·0" *read* "—1·3". |
| cxxiv | Do. . . | B | Rangoon . . | Pressure . . | 5 | *For* "—·020" *read* "—·010". |
| cxxiv | Do. . . | B | Sibsagar . . | Temperature of air | 15 to 19, 22 and 24. | *For* "67·6, —4·1, 75·3, —3·5, 15·4, 63·6 and 29·0" *read* "68·4, —3·3, 75·7, —3·1, 14·6, 64·4 and 28·2" respectively. |
| cxxiv | Do. . . | B | Gauhati . . | Do. . | 20 and 24 | *For* "95·5 and 26·9" *read* "94·8 and 26·2", respectively. |
| cxxv | Do. . . | B | Rangoon . . | Rainfall . . | 49 | *For* "—6·00" *read* "+6·00". |
| cxxv | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* "4·0 and —0·6" *read* "2·9 and —1·7" respectively. |
| cxxv | Do. . . | B | Minbu . . | Do. . . | Do. | *For* "4·8 and —5·5" *read* "4·7 and —5·6" respectively. |
| cxxv | Do. . . | B | Mandalay . . | Do. . . | Do. | *For* "6·0 and —1·4" *read* "6·4 and —1·0", respectively. |
| cxxv | Do. . . | B | Myitkyina . . | Do. . . | 36 | *For* "2·7*" *read* "2·3". |
| cxxix | Do. . . | B | Mainpuri . . | Do. . . | 36 and 38 | *For* "2·8 and 0" *read* "2·4 and —0·4" respectively. |
| cxxix | Do. . . | B | Ludhiana . . | Do. . . | Do. | *For* "1·5 and —1·1" *read* "1·7 and —0·9" respectively. |
| cxxix | Do. . . | B | Khushab . . | Do. . . | Do. | *For* "9·0 and +2·0" *read* "8·5 and +1·5" respectively. |
| cxxx | Do. . . | B | Dwarka . . | Temperature of air | 17 | *For* "83·1" *read* "83·7". |
| cxxxi | Do. . . | B | Jamnagar . . | Wind steadiness . | 39 | *Insert* "52". |
| cxxxi | Do. . . | B | Dwarka . . | Do. . . | Do. | *Insert* "76". |
| cxxxi | Do. . . | B | Veraval . . | Wind velocity . | 36 and 38 | *For* "13·0 and +3·6" *read* "11·7 and +2·3" respectively. |
| cxxxi | Do. . . | B | Seoni . . | Rainfall . . | 49 | *For* "—4·10" *read* "+4·10". |
| cxxxii | Do. . . | B | Gopalpur . . | Temperature of air | 13 | *For* "8·8" *read* "89·8". |
| cxxxiii | Do. . . | B | Hyderabad (Deccan) | Wind velocity . | 36 and 38 | *For* "5·7 and —0·7" *read* "4·8 and —1·6" respectively. |
| cxxxiv | Do. . . | B | Quetta . . | Pressure . . | 4 to 7 and 9 | *For* "24·610, +·026, 24·570, 24·696, and 24·517" *read* "24·590, +·006, 24·550, 24·676, and 24·497" respectively. |
| cxxxiv | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* "46·9, —5·3, 63·8, —4·1, 33·7, 35·0 and 58·1" *read* "47·9, —4·3, 64·2, —3·6, 32·7, 36·0 and 57·1" respectively. |
| cxxxiv | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* "25·639, +·008, 25·601, 25·761, and 25·504" *read* "25·652, +·021, 25·614, 25·774 and 25·517" respectively. |

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## TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction |
|---|---|---|---|---|---|---|
| cxxxiv | May 1909 . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cxxxiv | Do. . . | B | Pachmarhi . . | Temperature of air | 18 | *For* " + 0·3 " *read* " + 0·8." |
| cxxxv | Do. . . | B | Chitral . . | Wind velocity . | 36 | *For* " 10·0 " *read* " 2·0." |
| cxxxv | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cxxxv | Do. . . | B | Ootacamund . . | Rainfall . . | 50, 52, 53 and 55. | *For* " 13·67, +7·74, 13·67 and +7·74 " *read* " 13·68, +7·75, 13·68 and +7·75 " respectively. |
| cxxxvi | Do. . . | B | Bahrein . . | Pressure . . | 4, 6 to 11 | *Reject* the figures already given. |
| cxxxvi | Do. . . | B | Do. . . | Temperature of air | 12 | *For* " 85·9† " *read* " 85·8 (ii)." |
| cxxxvii | Do. . . | B | Do. . . | Hygrometry . | 41 and 43 | *For* " 68 + and ·836† " *read* " 67 (ii) and ·833 (ii) " respectively. |
| cxxxvii | Do. . . | B | Do. . . | Cloud . . . | 45 | *Insert* " 0·6." |
| cxxxvii | Do. . . | B | ..... | Foot note . . | ... | *Insert* " 11 " before " „ „ 30 „". |
| cxxxvii | Do. . . | B | Ispahan . . | Wind velocity . | 36 and 38 | *For* " 2·6* and —2·0 " *read* " 2·5 and —2·1 " respectively. |
| cxli | Do. . . | C | ..... | Do. . | 29 | Omit " percentage " from " percentage departure from normal." |
| cxliv | June . . | A | Rangoon . . | Pressure . . | 8 | *For* " + ·021 " *read* " + ·003." |
| cxliv | Do. . . | A | Quetta . . | Do. . . | 4, 5, 7, 8 and 9. | *For* " 24·469, 24·395, 24·425, — ·017, and 24·385" *read* " 24·149, 24·375, 24·405, — ·037, and 24·365 " respectively. |
| cxliv | Do. . . | A | Do. . . | Temperature of air | 11, 12, 14, 15, 18 and 19. | *For* " 57·4, 36·2, 47·3, 52·6, 74·8 and + 0·7" *read* " 58·9, 34·7, 48·8, 51·1, 75·5, and + 1·4," respectively. |
| cxlv | Do. . . | A | Do. . . | Vapour tension and Humidity | 24, 27, 28, 29, 32 and 33. | *For* " ·322, ·262, —·079, 67, 34, and - 5 " *read* " ·295, ·253, — ·088, 60, 31 and - 8 " respectively. |
| cxlvi | Do. . . | A | Simla . . | Pressure . . | 4, 5, 7, 8 and 9. | *For* " 22·991, 22·942, 22·960, —·026 and 22·922 " *read* " 23·006, 22·957, 22·975, —·011 and 22·937 respectively. |
| cxlvi | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cxlvi | Do. . . | A | Ootacamund . . | Pressure . . | 7 | *For* " 23·972 " *read* " 22·972 ". |
| cxlvii | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| cxlvii | Do. . . | A | Pachmarhi . . | Rainfall . . | 53 | *For* " 9·86 " *read* " 10·02 ". |
| cxlix | Do. . . | B | Burma . . | Wind velocity . | 10 | *For* " —1·1 " *read* " —1·2 ". |
| cxlix | Do. . . | B | Eastern Bengal and Assam. | Temperature of air | 9 | *For* " 21·1 " *read* " 21·0 " . |
| cxlix | Do. . . | B | Do. | Rainfall . . | 19 and 20 | *For* " 17·09 and + 5·61 " *read* " 17·16 and + 5·54 " respectively. |
| cxlix | Do. . . | B | United Provinces of Agra and Oudh. | Do. . . | 18 and 20 | *For* " 8·23 and + 3·23 " *read* " 8·24 and + 3·24 " respectively. |
| cxlix | Do. . . | B | North-West Frontier Province. | Do. . . | 18 to 20 | *For* " 0·99, 0·83 and + 0·16 " *read* " 1·04, 0·86 and + 0·18 " respectively. |
| cxlix | Do. . . | B | Central India . | Do. . , | 18 to 20 | *For* " 7·16, 6·96 and + 0·20 " *read* " 7·13, 6·92 and + 0·21 " respectively. |
| cxlix | Do. . . | B | Hyderabad . . | Wind velocity . | 10 | *For* " - 0·5 " *read* " —1·0 ". |
| cl | Do. . . | B | Sibsagar . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 71·8, —4·6 ?, 79·8, —3·1 ?, 16·0, 69·6 and 25·0 " *read* " 72·6, —3·8, 80·2, —2·7, 15·2, 70·4 and 24·2" respectively. |
| cli | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* " 4·5 and —0·6 " *read* " 3·4 and —1·7 " respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cli | June 1909 . . | B | Thayetmyo . . | Wind velocity . | 38 | *Insert* " 0 ". |
| cli | Do. . . | B | Minbu . . | Do. . | 36 and 38 | *For* " 6·0 and — 5·7 " *read* " 5·9 and —5·8 " respectively. |
| cli | Do. . . | B | Mandalay . . | Do. . | Do. | *For* " 7·6 and —1·2 " *read* " 8·1 and —0·7 " respectively. |
| cli | Do. . . | B | Myitkyina . . | Do. . | 36 | *For* " 2·2* " *read* " 1·9 ". |
| clii | Do. . . | B | Puri . . . | Pressure . . | 4, 6, 7 and 9 | *For* " 29·595, 29·558, 29·791 and 29·377" *read* "29·615 29·578, 29·811 and 29· 397 " respectively. |
| clii | Do. . . | B | Do. . . . | Temperature of air | 22 | *For* " 62·6 " *read* " 72·6 ". |
| clii | Do. . . | B | Bhagalpur . . | Pressure . . | 11 | *For* " ·420 " *read* " ·429 ". |
| clii | Do. . . | B | Motihari . . | Do. . . | 6 | *For* " 29·536 " *read* " 29·539 ". |
| clii | Do. . . | B | Benares . . | Do. . . | 4 | *For* " 39·288 " *read* " 29·288 ". |
| cliii | Do. . . | B | Purulia . . | Rainfall . . | 52 | *For* " —3·41 " *read* " —2·41 ". |
| clv | Do. . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* " 3·7 and + 0·8 " *read* " 3·2 and + 0·3 " respectively. |
| clv | Do. . . | B | Ludhiana . . | Do. . | 36 and 38 | *For* " 2·4 and — 0·4 " *read* " 2·7 and — 0·1 " respectively. |
| clv | Do. . . | B | Khushab . . | Do. . | 36 and 38 | *For* " 7·4 and + 0·3 " *read* " 6·9 and — 0·2 " respectively. |
| clvii | Do. . . | B | Veraval . . | Do. . | 36 and 38 | *For* " 15·2* and + 3·8 " *read* " 13·7* and + 2·3 " respectively. |
| clviii | Do. . . | B | Madras . . | Temperature of air | 22 and 24 | *For* " 68·5 and 34·5 " *read* " 69·5 and 33·5 " respectively. |
| clix | Do. . . | B | Hyderabad Deccan. | Wind velocity . | 36 and 38 | *For* " 8·8 and — 0·3 " *read* " 7·4 and — 1·7 " respectively. |
| clx | Do. . . | B | Quetta . . | Pressure . . | 4 to 7 and 9 | *For* " 24·466, —·014, 24·426, 24·601, and 24·316 " *read* " 24·146, —·034, 24·406, 24·581 and 24·296 " respectively. |
| clx | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 57·4, — 1·7, 75·5, + 0·6, 36·1, 47·5 and 52·6 " *read* " 58·9, — 0·2, 76·2, + 1·3, 34·6, 49·0 and 51·1 " respectively. |
| clx | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* " 25·459, —·029, 25·421, 25·597 and 25·304 " *read* " 25·472, — 016, 25·434, 25·610 and 25·317 " respectively. |
| clx | Do. . . | B | Chitral . . | Temperature of air | 22 | *For* " 5·42 " *read* " 54·2. " |
| clx | Do. . . | B | Para Chinar . . | Do. . | 20 | *For* " 5·86 *read* " 58·6. " |
| clx | Do. . . | B | Muktesar . . | Pressure . . | 6 | *For* " 22·67 " *read* " 22·676." |
| clx | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| clx | Do. . . | B | Mount Abu . . | Temperature of air | 18 | *For* " + 0· " *read* " + 0·2. " |
| clxi | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| clxi | Do. . . | B | Maymyo . , | Wind steadiness . | 39 | *For* " 75¶¶ " *read* " 75. " |
| clxi | Do. . | B | Kodaikanal . | Rainfall . . | 50, 52, 53 and 55. | *For* " 3·62, +0·13, 11·79 and + 2·68" *read* " 3·63, +0·14, 11·80 and +2·69 " respectively. |
| clxi | Do. . . | B | ..... | Foot note . . | ... | *For* " ¶ of 20 days" *read* " ¶¶ of 20 days." |
| clxii | Do. . . | B | Kashgar (c) . . | Temperature of air | 13, 14, 17, 18 and 19. | *For* " 89·8, —0·1, 76·4, — 1·4 and 26 9," *read* " 90·4, + 0·5, 76·8, —1·1 and 27 5 " respectively. |
| clxii | Do. . . | B | Bahrein . . | Pressure . . | 4 and 6 to 11 | *Reject* the figures already given. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TABLES A, B AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| clxvi | June 1909 . . | C | Kermanshah . . | ..... | ... | *For* " Registered " *read* " Register. " |
| clxx | July . . | A | Rangoon . . | Pressure . . | 8 | *For* " + ·002 " *read* " —·016." |
| clxx | Do. . . | A | Quetta . . | Do. . . | 4, 5, 7, 8 and 9 | *For* " 24·438, 24·352, 24·393, + ·002 and 24·353 " *read* " 24·418, 24·332, 24·373, —·018 and 24·333 " respectively. |
| clxx | Do. . . | A | Do. . . | Temperature of air | 11, 12, 14, 15, 18 and 19. | *For* " 62·5, 30·9, 52·0, 48·1, 77·6 and — 0·7 " *read* " 64·0, 29·4, 53·5, 46·6, 78·3 and 0 " respectively. |
| clxxi | Do. . . | A | Leh . . . | Rainfall . . | 53 | *For* " 0·66 " *read* " 0·60." |
| clxxii | Do. . . | A | Page No. . . | ..... | ... | *For* " lxxii " *read* " clxxii." |
| clxxii | Do. . . | A | Simla . . . | Pressure . . | 4, 5, 7, 8 and 9 | *For* " 22·980, 22·932, 22·954, — ·004 and 22·916 " *read* " 22·995, 22·947, 22·969, + ·011 and 22·931 " respectively. |
| clxxii | Do. . . | A | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| clxxiii | Do. . . | A | ..... | ..... | ... | Do. Do. |
| clxxv | Do. . . | B | Eastern Bengal and Assam. | Temperature of air | 4 and 9 | *For* " 78·3 and 18·9 " *read* " 78·4 and 18·8 " respectively. |
| clxxv | Do. . . | B | Eastern Bengal and Assam. | Rainfall . . | 19 and 20 | *For* " 17·88 and — 5·40 " *read* " 17·94 and —5·46 " respectively. |
| clxxv | Do. . . | B | Punjab . . | Wind velocity . | 10 | *For* " — 0·2 " *read* " — 0·3." |
| clxxv | Do. . . | B | Do. . . | Rainfall . . | 18 and 20 | *For* " 8·09 and + 2·26 " *read* " 8·11 and + 2·28 " respectively. |
| clxxv | Do. . . | B | North-West Frontier Province. | Do. . . | 18 and 20 | *For* " 5·41, 3·16 and + 2·25 " *read* " 5·68, 3·27 and + 2·41 " respectively. |
| clxxv | Do. . . | B | Rajputana . . | Do . . | 18 and 20 | *For* " 10·19 and + 3·37 " *read* " 10·24 and + 3·42 " respectively. |
| clxxv | Do. . . | B | Central India . | Do. . . | 18 and 20 | *For* " 12·48 and + 1·49 " *read* " 12·55 and +1·56 " respectively. |
| clxxv | Do. . . | B | Bombay . . | Wind velocity . | 10 | *For* " + 0·2 " *read* " + 0·1." |
| clxxvi | Do. . . | B | Hyderabad . . | Do. . . . | 10 | *For* " — 0·5 " *read* " — 1·1." |
| clxxvi | Do. . . | B | Sibsagar . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 73·2, — 4·7?, 80·3, — 3·2?, 15·1, 68·6 and 26·0 " *read* " 74·0, — 3·9?, 81·2, — 2·8? 14·3, 69·4 and 25·2 " respectively. |
| clxxvii | Do. . . | B | Toungoo . . | Wind velocity . | 36 and 38 | *For* " 4·3 and — 0·9 " *read* " 3·1 and — 2·1 " respectively. |
| clxxvii | Do. . . | B | Minbu . . | Do. . | 36 and 38 | *For* " 7·0 and — 5·3 " *read* " 6·8 and —5·5 " respectively. |
| clxxvii | Do. . . | B | Mandalay . . | Do . | 36 and 38 | *For* " 7·7 and —1·4 " *read* " 8·2 and — 0·9 respectively. |
| clxxvii | Do. . . | B | Myitkyina . . | Do. . | 36 | *For* " 2·4* " *read* " 2·0." |
| clxxix | Do. . . | B | Naya Dumka . | Rainfall . . | 56 | *For* " 3·19 " *read* " 1·06." |
| clxxix | Do. . . | B | Balasore . . | Do. . . | 49 | *For* " + 2·94 " *read* " — 2·94." |
| clxxix | Do. . . | B | Puri . . . | Wind velocity . | 36 | *For* " 12·7 " *read* " 12·8. " |
| clxxix | Do. . . | B | Daltonganj . . | Rainfall . . | 52 | *For* " + 7·43 " *read* " + 5·43." |
| clxxix | Do. . . | B | Gorakhpur . . | Wind velocity . | 36 and 38 | *For* " 0·9 II, and — 1·4 " *read* " 2·1 and — 0·2 " respectively. |
| clxxix | Do. . . | B | Foot note . . | ..... | ... | *For* " ‡‡ Mean of 28 days " *read* " ‡‡ Mean of 7 days." |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| clxxx | July 1909 . . | B | Udaipur . . | Temperature of air | 23 to 24 | *For* "71·3, 3rd and 22·2" *read* "72·3, 21st and 21·2" respectively. |
| clxxxi | Do. . . | B | Mainpuri . . | Do. . | 22 to 24 | *For* "2·7 and + 0·7" *read* "2·3 and + 0·3" respectively. |
| clxxxi | Do. . . | B | Ludhiana . . | Do. . | 22 to 24 | *For* "1·1 and — 1·3" *read* "1·3 and — 1·1" respectively. |
| clxxxi | Do. . . | B | Khushab . . | Do. . | 22 to 24 | *For* "7·6 and + 0·1" *read* "7·1 and — 0·4" respectively. |
| clxxxiii | Do. . . | B | Veraval . . | Do. . | 22 to 24 | *For* "21·2 and + 7·8" *read* "19·1 and + 5·7" respectively. |
| clxxxv | Do. . . | B | Bidar . . | Rainfall . . | 51 | *For* "8·88" *read* "8·80." |
| clxxxv | Do. . . | B | Hyderabad (Deccan). | Wind velocity . | 36 and 38 | *For* "9·7 and — 0·2" *read* "8·1 and —1·8" respectively. |
| clxxxvi | Do. . . | B | Car Nicobar . . | Temperature of air | 13 | *For* "8·55" *read* "85·5" |
| clxxxvi | Do. . . | B | Port Blair . . | Do. . . | 20 and 24 | *For* "87·2 and 14·2" *read* "86·0 and 13·0" respectively. |
| clxxxvi | Do. . . | B | Skardu . . | Pressure . . | 6 | *For* "22·622" *read* "22·632." |
| clxxxvi | Do. . . | B | Quetta . . | Do. . . | 4 to 7 and 9 | *For* "24·433, + ·007, 24·393, 24·548 and 24·330" *read* "24·413, — ·013, 24·373, 24·528 and 24·310" respectively. |
| clxxxvi | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* "62·5, — 2·2, 78·0, — 0·8, 30·9, 52·0 and 48·1" *read* "64·0, —0·7, 78·7, 0, 29·4, 53·5 and 46·6" respectively. |
| clxxxvi | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* "25·418, — ·021, 25·380, 25·556 and 25·312" *read* "25·431, — ·008, 25·393, 25·569 and 25·325" respectively. |
| clxxxvi | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| clxxxvii | Do. . . | B | Car Nicobar . . | Wind velocity . | 36 | *Insert* "6·1." |
| clxxxvii | Do. . . | B | Chakrata . . | Rainfall . . | 50, 52, 53 and 55. | *For* "23·29, + 3·22, 38·46 and + 7·19" *read* "24·78, + 4·71, 39·95 and + 8·68," respectively. |
| clxxxvii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| clxxxvii | Do. . . | B | Pachmarhi . . | Rainfall . . | 47, 49, 50, 52, 53 and 55. | *For* "25, + 3·00, 23·00, —2·11, 34·47 and —2·06" *read* "26, + 4·00, 23·20, —1·91, 34·67 and —1·86," respectively. |
| clxxxvii | Do. . . | B | Kodaikanal . . | Do. . . | 53 and 55 | *For* "15·28 and + 1·71" *read* "15·29 and + 1·72." respectively. |
| clxxxviii | Do. . . | B | Gyantse . . | Temperature of air | 13 | *For* "7" *read* "73·6." |
| clxxxviii | Do. . . | B | Ispahan . . | Pressure . . | 4 | *For* "24·194††" *read* "24·194**." |
| clxxxix | Do. . . | B | Do. . . | Rainfall . . | 50 | *Insert* "0." |
| cxcii | Do. . . | C | Kalat . . | Temperature of air | 5, 7 and 9 | *Insert* "— 3·1" "+ 5·4" and "+ 1·1" respectively. |
| cxcvi | August . . | A | Rangoon . . | Pressure . . | 8 | *For* "+ ·050" *read* "+ ·032." |
| cxcvi | Do. . . | A | Quetta . . | ..... | 4, 5, 7, 8 and 9 | *For* "24·508, 24·420, 24·462, + ·017 and 24·422" *read* "24·488, 24·400, 24·442, — ·003, and 24·402" respectively. |
| cxcvi | Do. . | A | Do. . . | Temperature of air | 11, 12, 14, 15, 18 and 19 | *For* "61·2, 32·9, 53·4, 43·6, 77·2 and + 1·9" *read* "62·7, 31·4, 54·9, 42·1, 77·9 and + 2·6," respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cxcvii | August 1909 . . | A | Quetta . . | Vapour tension and Humidity. | 24, 27, 28, 29, 32 and 33. | *For* " ·433, 316, —·058, 79, 40, —4 " *read* " ·407, ·308, —·066, 72, 38 and —6 " respectively. |
| cxcviii | Do. . . | A | Chakrata . . | Pressure . . | 9 | *For* " ·174 " *read* " 23·174." |
| cxcviii | Do. . . | A | Darjeeling . , | ..... | ... | *Reject* the figures from all the columns. |
| cxcix | Do. . . | A | Do. . . | ..... | ... | *Reject* the figures from all the columns. |
| cci | Do. . . | B | Burma . . | Wind velocity . | 10 | *For* " —1·2 " *read* " —1·3." |
| cci | Do. . . | B | Eastern Bengal and Assam. | Rainfall . . | 19 and 20 | *For* " 15·83 and +6·51 " *read* " 15·87 and +6·47 " respectively. |
| cci | Do. . . | B | United Provinces of Agra and Oudh. | Do. . . | 19 and 20 | *For* " 8·30 and —3·22 " *read* " 8·37 and —3·15 " respectively. |
| cci | Do. . . | B | Punjab . . | Wind velocity . | 10 | *For* " +0·5 " *read* " +0·4." |
| cci | Do. . . | B | North-West Frontier Province. | Rainfall . . | 18 to 20 | *For* " 4·93, 3·38 and +1·55 " *read* " 5·18, 3·46 and +1·72 " respectively. |
| cci | Do. . . | B | Rajputana . . | Do. . . | 18 and 20 | *For* " 5·80 and —0·44 " *read* " 5·77 and —0·47 " respectively. |
| cci | Do. . . | B | Central India . | Do. . . | 18 and 20 | *For* " 9·58 and —1·66 " *read* " 9·45 and —1·79 " respectively. |
| cci | Do. . . | B | Bombay . . | Wind velocity . | 10 | *For* " —2·0 " *read* " —2·1." |
| cci | Do. . . | B | Hyderabad . . | Do. . . | 10 | *For* " —4·6 " *read* " —4·8." |
| cciii | Do. . . | B | Toungoo . . | Do. . . | 36 and 38 | *For* " 2·9 and —1·3 " *read* " 2·1 and —2·1 " respectively. |
| cciii | Do. . . | B | Minbu . . | Do. . . | 36 and 38 | *For* " 5·4 and —6·8 " *read* " 5·3 and —6·9 " respectively. |
| cciii | Do. . . | B | Mandalay . . | Do. . . | 36 and 38 | *For* " 7·3 and —0·7 " *read* " 7·8 and —0·2 " respectively. |
| cciii | Do. . . | B | Myitkyina . . | Do. , . | 36 | *For* " 2·2* " *read* " 1·9." |
| cciv | Do. . . | B | Chaibassa . . | Temperature of air | 14 | *For* " +0·2 " *read* " —0·1." |
| ccvii | Do. . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* " 2·7 and +1·1 " *read* " 2·3 and +0·7 " respectively. |
| ccvii | Do. . . | B | Ludhiana . . | Do. . . | 36 and 38 | *For* " 0·8 and —1·0 " *read* " 0·9 and —0·9 " respectively. |
| ccvii | Do. . . | B | Khushab . . | Do. . . | 36 and 38 | *For* " 7·4 and +1·3 " *read* " 6·9 and +0·8 " respectively. |
| ccvii | Do. . . | B | Udaipur . . | Rainfall . . | 50, 52, 53 and 55. | *For* " 13·40, +7·35, 35·17 and +19·45 " *read* " 13·43, +7·38, 35·20, and +19·48 " respectively. |
| ccviii | Do. . . | B | Seoni . . | Temperature of air | 20 | *For* " 86·0 " *read* " 88·0." |
| ccix | Do. . . | B | Veraval . . | Wind velocity . | 36 and 38 | *For* " 14·9 and +3·1 " *read* " 13·4 and +1·6 " respectively. |
| ccix | Do. . . | B | Nagpur . . | Rainfall . . | 50, 52, 53 and 55. | *For* " 7·85, —3·21, 42·12 and +7·16 " *read* " 7·87, —3·19, 42·14 and +7·18 " respectively. |
| ccxi | Do. . . | B | Hyderabad (Dn). . | Wind velocity . | 36 and 38 | *For* " 4·4 and —4·0 " *read* " 3·6 and —4·8 " respectively. |
| ccxi | Do. . . | B | Hanumkonda . | Wind direction . | 33 | *For* " 1 " *read* " 10." |
| ccxii | Do. . . | B | Quetta . . | Pressure . , | 4 to 7 and 9 | *For* " 24·504, +·025, 24·464, 24·606 and 24·396 " *read* " 24·484, +·005, 24·444, 24·586 and 24·376 " respectively. |
| ccxii | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 61·2, +0·1, 77·8, +2·0, 33·1, 53·5 and 43·6 " *read* " 62·7, +1·6, 78·5, +2·7, 31·6, 55·0 and 42·1 " respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*contd.*

| Page. | Part. | Table | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ccxii | August 1909 . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* " 25·491, +·004, 25·453, 25·592 and 25·370 " *read* " 25·504, +·017, 25·466, 25·605 and 25·383 " respectively. |
| ccxii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| ccxii | Do. . . | B | Pachmarhi . . | Temperature of air | 19 | *For* " 8·9 " *read* " 9·2." |
| ccxii | Do. . . | B | Mount Abu . . | Do. . . | 13, 14, 17, 18, 19, 20 and 24 | *For* " 70·5, —1·5, 66·8, —1·3, 7·4, 80·7 and 20·3 " *read* " 70·1, —1·9, 66·6, —1·5, 7·0, 78·2 and 17·8 " respectively. |
| ccxiii | Do. . . | B | Chitral . . | Rainfall . . | 50 | *For* " 0·2 " *read* " 0·26." |
| ccxii | Do. . . | B | Chakrata . . | Do. . . | 50, 52, 53 and 55. | *For* "19·47, +0·29, 59·42 and +8·97 " *read* " 19·57, +0·39, 59·52 and +9·07." respectively. |
| ccxiii | Do. . . | B | Muktesar . . | Do. . . | 50, 52, 53 and 55. | *For* " 12·25, −0·13, 48·54 and +16·17 " *read* "12·30 —0·08, 48·59 and +16·22 " respectively. |
| ccxiii | Do. . . | B | Darjeeling . . | ..... | ... | *Reject* the figures from all the columns. |
| ccxiii | Do. . . | B | Mount Abu . . | Rainfall . . | 50, 52, 53 and 55. | *For* " 29·85, +9·64, 94·90 and +44·26 " *read* " 29·89, +9·68, 94·94 and +44·30" respectively. |
| ccxiv | Do. . . | B | Kashgar (*c*) . . | Temperature of air | 15, 16, 17 and 19. | *For* " 69·7, +4·4, 81·9 and 24·4 " *read* " 69·9, +4·5, 82·0 and 24·2 " respectively. |
| ccxiv | Do. . . | B | Ispahan (*b*) . . | Do. . . | 15 to 18 | *For* "65·3, +3·9, 80·5 and +2·1 " *read* " 65·3, +3·9†, 80·5† and +2·1† " respectively. |
| ccxiv | Do. . . | B | Tehran (*b*) . . | Do. . . | 12 | *For* " 77·9 " *read* " 77·7." |
| ccxv | Do. . . | B | ..... | Page No. . . | ... | *For* " ccx " *read* " ccxv." |
| ccxv | Do . . | B | Tehran . . | Hygrometry . . | 41 to 44 | *For* " 49, +17, ·456 and +·097 " *read* " 48†, +16† ·449† and +·090† " respectively. |
| ccxix | Do. . . | C | Hailakandi . . | Do. . . | 34 | *For* " 7 " *read* " ·887." |
| ccxix | Do. . . | C | Kermanshah. . | Rainfall . . | 44 | *For* " 0·06 " *read* " 0·94." |
| ccxxii | September . . | A | Rangoon . . | Pressure . . | 8 | *For* "—·028 " *read* "—·046." |
| ccxxii | Do. . . | A | Quetta . | Do. . . | 4, 5, 7, 8 and 9 | *For* " 24·613, 24·530, 24·564, +·005 and 24·524 " *read* " 24·593, 24·510, 24·544, —·015, and 24·504 " respectively. |
| ccxxii | Do. . . | A | Do. . . | Temperature of air | 11, 12, 14, 15, 18 and 19. | *For* " 45·3, 40·4, 37·8, 53·1, 65·1 and −2·0 " *read* " 46·8, 38·9, 39·3, 51·6, 65·9 and —1·2 " respectively. |
| ccxxiii | Do. . . | A | Do. . . | Vapour tension and Humidity. | 24, 27, 28, 29, 32 and 33. | *For* " ·255, ·194, —·058, 83, 40 and 0" *read* " ·235, ·187, —·065, 73, 37 and —3 " respectively. |
| ccxxiv | Do. . . | A | Darjeeling . . | Pressure . . | 4 to 9 | *Reject* all the figures. |
| ccxxiv | Do. . . | A | Do. . . | Temperature of air | 10 to 12 and 16 to 19. | *For* "66·6, 56·6, 10·0, 62·6§, 63·2§, 61·2 and +1·8" *read* " 66·4, 56·3, 10·1, 62·4, 62·7, 61·0 and +1·6" respectively. |
| ccxxiv | Do. . . | A | Do. . . | Do. . . | 20 to 23 | *For* " 56·0, 61·0§, 61·3§ and 59·4 " *read* " 55·6, 60·2, 60·1 and 58·6 " respectively. |
| ccxxiv<br>ccxxiv | Do. . .<br>Do. . . | A<br>A | Darjeeling**.<br>Footnote. | Do. . . | ... | " ** Observations of 16 days." |
| ccxxv | Do. . . | A | Darjeeling** . . | Vapour tension and Humidity. | 24 to 33 | *For* " ·438, 527§, ·526§, ·499, +·019, 96, 92§, 90§, 95 and —1 " *read* " ·430, ·502, ·497, ·483 +·003, 96, 89, 87, 93 and —3 " respectively. |
| cxxv | Do. . . | A | Do. . | Cloud . . | 34 to 37 | *For* " 8·7, 8·1, 8·4 and +0·1 " *read* " 9·3, 8·6, 8·9 and +0·6 " respectively. |
| ccxxv | . | A | Do. . . | Wind steadiness* nd velocity. | 38, 44, 45, 46, 47, 49 and 51. | *For* " 19, 7, 12, 10, N72°W, 30 and 63‖ " *read* " 14, 2, 2, 2, N31°E, 12 and 62‖ " respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

TABLES A, B AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ccxxv | September 1909 . | A | Darjeeling . . | Rainfall . . | 53 and 54 | *For* "14·09 and 2·21" *read* "5·32 and 1·69" respectively. |
| ccxxv | Do. . . | A | Footnote . . | ... | ... | *For* "11 mean of 28¼ days" *read* "11 mean of 15¼ days." |
| ccxxvii | Do. . . | B | North-West Frontier Province. | Rainfall . . | 18 to 20 | *For* "0·93, 1·23 and —0·30" *read* "0·97, 1·26 and —0·29" respectively. |
| cxxvii | Do. . . | B | Rajputana . . | Rainfall . . | 18 and 20 | *For* "3·55 and +0·10" *read* "3·63 and +0·18" respectively. |
| ccxxvii | Do. . . | B | Central India . | Do. . . | 13 and 20 | *For* "4·20 and —1·95" *read* "4·23 and —1·92" respectively. |
| ccxxvii | Do. . . | B | Hyderabad . . | Wind velocity . | 10 | *For* "—0·5" *read* "—0·8." |
| ccxxix | Do. . . | B | Toungoo . . | Do. . . | 36 and 38 | *For* "2·6 and —0·5" *read* "1·9 and —1·2" respectively. |
| ccxxix | Do. . . | B | Minbu . . | Do. . . | 36 and 38 | *For* "4·5 and —3·7" *read* "4·4 and —3·8" respectively. |
| ccxxix | Do. . . | B | Mandalay . . | Do. . . | 36 and 38 | *For* "4·6‡ and —0·1" *read* "5·0‡ and +0·3" respectively. |
| ccxxix | Do. . . | B | Myitkyina . . | Do. . . | 36 | *For* "1·7*" *read* "1·4." |
| ccxxx | Do. . . | B | Chaibassa . . | Temperature of air | 14 and 16 | *For* "—1·6 and —0·2" *read* "—1·8. and —0·1" respectively. |
| ccxxxiii | Do. . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* "2·4‡ and +0·9" *read* "2·1‡ and +0·6" respectively. |
| ccxxxiii | Do. . . | B | Ludhiana . . | Do. . . | 36 and 38 | *For* "0·6 and —0·8" *read* "0·7 and —0·7" respectively. |
| ccxxxiii | Do. . . | B | Khushab . . | Do. . . | 36 and 38 | *For* "4·7 and —0·7" *read* "4·4 and —1·0" respectively. |
| ccxxxv | Do. . . | B | Veraval . . | Do. . . | 36 and 38 | *For* "7·8 and —0·1" *read* "7·0 and —0·9" respectively. |
| ccxxxv | Do. . . | B | Nagpur . . | Rainfall . . | 53 and 55 | *For* "48·26 and +4·26" *read* "48·28 and +4·28," respectively. |
| ccxxxv | Do. . . | B | Pendra . . | Wind velocity . | 38 | *Omit* "+4·7." |
| ccxxxvii | Do. . . | B | Hyderabad (Deccan) | Do. . . | 36 and 38 | *For* "4·5 and —1·1" *read* "3·7 and —1·9" respectively. |
| ccxxxviii | Do. . . | B | Quetta . . | Pressure . . | 4 to 7 and 9 | *For* "24·605, +·002, 24·565, 24·719 and 24·502" *read* "24·585, —·018, 24·545, 24·699 and 24·482" respectively. |
| ccxxxviii | Do. . . | B | Quetta . . | Temperature of air | 15 to 19, 22 and 24. | *For* "45·3, —4·2, 65·6, —1·9, 40·6, 38·0 and 53·1" *read* "46·8, —2·7, 66·3, —1·1, 39·1, 39·5 and 51·6" respectively. |
| ccxxxviii | Do. . . | B | Chaman . . | Pressure . | 4 to 7 and 9 | *For* "25·622, —·026, 25·584, 25·732 and 25·520" *read* "25·635, —·013, 25·597, 25·745 and 25·533" respectively. |
| ccxxxviii | Do. . . | B | Darjeeling . . | Station . . | 2 | *For* "Darjeeling" *read* "Darjeeling (*r*)." |
| ccxxxviii | Do. . . | B | Do. . . | Presure . . | 4 to 11 | *Reject* the figures already given. |
| ccxxxviii | Do. . . | B | Do. . . | Temperature of air | 12 to 19 and 22 to 24. | *For* "60·7*, 66·8‡, +2·7‡, 56·6‡, +1·1‡, 61·7‡ +1·9‡ 10·2, 51·7, 2nd and 26·6" *read* "60·6, 67·0, +3·4, 56·4, +1·6, 61·7, +2·5, 10·6, 53·2, 30th and 19·1" respectively. |
| ccxxxviii | Do. . . | B | Footnote . . | ..... | ... | *Insert* "(*f*) Observations of 16 days." |
| ccxxxviii | Do. . . | B | Kodaikanal . . | Temperature of air | 15 to 19 and 22 to 24. | *For* "51·8, —0·4, 10·6, 49·5, 2nd, 10th and 19th and 17·5" *read* "51·7, —0·5, 10·7, 48·7, 20th and 18·3" respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B, AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ccxxxix | September 1909 . | B | Srinagar . . | Rainfall . . | 52 | *For* " +6·06" *read* " +6·01." |
| ccxxxix | Do. . . | B | Darjeeling . . | Wind direction . | 25, 27 to 29, and 32 to 34. | *For* " 18, 2, 2, 2, 1, 5 and N11°W " *read* " 15, 1, ... ..., ..., ..., ... and N45°E " respectively. |
| ccxxxix | Do. . . | B | Do. . . | Wind velocity . | 36 | *For* " ¶2 8 " *read* " 2·6§." |
| ccxxxix | Do. . . | B | Do. . . | Wind steadiness . | 39 and 40 | *For* " 12 and —7 " *read* " 3 and ... " respectively. |
| ccxxxix | Do. . . | B | Darjeeling . . | Hygrometry . | 41 to 44 | *For* " 95, +1, ·510 and +·036 " *read* " 96s, ..., ·508s and ... " respectively. |
| ccxxxix | Do. . . | B | Do. . . | Cloud . . | 45 and 46 | *For* " 8·2 and —0·3 " *read* " 7·9 and ... " respectively. |
| ccxxxix | Do. . . | B | Do. . . | Rainfall . . | 47, 50, 53 and 56. | *For* " 18, 13·39, 126·51, and 2 21 " *read* " 9, 5·32(N), 5·32(N), and 1·69 " respectively. |
| ccxxxix | Do. . . | B | Do. . . | Do. . . | 48, 49, 51, 52, 54 and 55. | *Omit* " 17·71, +0·29, 18·95, —5·56, 111·83 and +14·68 " respectively. |
| ccxxxix | Do. . . | B | Footnote . . | ... | ... | *Insert* " S mean of 15 days." |
| ccxxxix | Do. . . | B | Do. . . | ... | ... | *Insert* " (N) Rainfall since 15th September 1909." |
| ccxl | Do. . . | B | Gangtok . . | Pressure . . | 6 | *For* " 24·352 " *read* " 24 352§." |
| ccxl | Do. . . | B | Kashgar . . | Temperature of air | 12 and 15 to 19. | *For* " 63·9, 55·6, —1·3, 67·1, —2·2 and 22·9 " *read* " 63 6, 55·5§, —1·4§, 67·1§, —2·3§, and 23·0 " respectively. |
| ccxli | Do. . . | B | Gyantse . . | Cloud . . | 45 | *Omit* " O ." |
| ccxli | Do. . . | B | Kashgar . . | Hygrometry . . | 41 and 43 | *For* " 74 and ·438 " *read* " 75 and ·442 " respectively. |
| ccxliv | Do. . . | C | Chandkhira . . | Temperature of air | 11 | *For* " 4·6 " *read* " 94·6." |
| ccxliv | Do. . . | C | Killa Drosh . . | Temperature of air | 8 | *For* " 75· " *read* " 75·8." |
| ccxlviii | October . . | A | Rangoon . . | Pressure . . | 8 | *For* " —·021 " *read* " —·039." |
| ccxlviii | Do. . . . | A | Leh . . | Temperature of air | 16 | *For* " 48·5 " *read* " 48·4." |
| ccxlviii | Do. . . . | A | Quetta . . | Pressure . . | 4, 5 and 7 to 9 | *For* " 24·738, 24·663, 24.692, +·003 and 24·651 " *read* " 24·718, 24·643, 24·672, —·017 and 24·631" respectively. |
| ccxlviii | Do. . . . | A | Do. . . | Temperature of air | 11, 12, 14, 15 18 and 19. | *For* " 38·1, 39 5. 30·1, 53·8, 57·9 and +1·4 " *read* " 40·3, 37·3, 32·3, 51·6, 58·9, and +2·4," respectively. |
| ccxlix | Do. . . . | A | Srinagar . . | Wind velocity . | 51 | *For* " 58" *read* " 54." |
| ccxlix | Do. . . . | A | Quetta . . | Vapour tension and Humidity. | 24, 27, 28, 29, 32 and 33 | *For* " ·216, ·168, —·014, 93, 45 and +3 " *read* " ·188, ·158, —·024, 76, 39 and —3 " respectively. |
| ccl | Do. . . . | A | Darjeeling . . | Pressure . . | ... | *Reject* the figures from all the columns. |
| ccl | Do. . . . | A | Do. . . | Temperature of air | 10, 12, 18 and 19. | *For* " 65·0, 13·7, 58·2 and +3·0" *read* " 65·2, 13·9, 58·3 and +3·1 " respectively. |
| ccli | Do. . . . | A | Do. . . | Rainfall . . | 53 | *For* " 3·71 " *read* " 3·83." |
| cclii | Do. . . . | B | Hyderabad . . | Wind velocity . | 10 | *For* " —1·0" *read* " —1·1." |
| cclv | Do. . . . | B | Toungoo . . | Do. . . | 36 and 38 | *For* " 1·8 and 0 " *read* " 1·3 and —0·5" respectively. |
| cclv | Do. . . . | B | Minbu . . | Do. . . | Do. . . | *For* " 2·8 and —3·7 " *read* " 2·7 and —3·8 " respectively. |
| cclv | Do. . . . | B | Mandalay . . | Do. . . | Do. . . | *For* " 2·9* and —0·3 " *read* " 3·1* and —0·1 " respectively. |
| cclv | Do. . . . | B | Myitkyina . . | Do. . . | 36 | *For* " 1·8† " *read* " 1·5." |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B, AND C.—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| colvi | October 1909 . | B | Chaibassa . . | Temperature of air | 14, 16 and 18 | *For* " +0·3, —1·5 and —0·6 " *read* " " +0·2, —1·0 and —0·4 " respectively. |
| colvi | Do. . . . | B | Pusa . . | Pressure . . | 4 and 6 to 11 | *Insert* " 29·687‡, 29·832‡, 29·803, 28th, 29·555, 5th and +·248 " respectively. |
| colvi | Do. . . . | B | Footnote . . | ..... | ... | *Insert* " ‡mean of 29 days." |
| colix | Do. . . . | B | Mainpuri . . | Wind velocity . | 36 and 38 | *For* " 1·9 and +1·0 " *read* " 1·6 and +0·7 " respectively. |
| colix | Do. . . | B | Ludhiana . . | Do. . . | Do. . . | *For* " 0·6 and −0·5 " *read* " 0·7 and −0·4 " respectively. |
| colix | Do. . . . | B | Khushab . | Wind velocity . | 36 and 38 | *For* " 2·9 and —1·0 " *read* " 2·7 and —1·2 " respectively. |
| colx | Do. . . | B | Jagdalpur . . | Pressure . . | 4, 7 and 9 | *For* " 28·109, 28·152 and 28·032 " *read* " 28·106, 28·149, and 28·029 " respectively. |
| colxi | Do. . . | B | Veraval . . | Wind velocity . | 36 and 38 | *For* " 6·5 and +0·4 " *read* " 5·9 and —0·2 " respectively. |
| colxi | Do. . . | B | Raipur . . | Rainfall . . | 48 | *For* " 3·1 " *read* " 3·10." |
| colxii | Do. . . | B | Trivandrum . . | Temperature of air | 21 | *For* " 11th and 2th " *read* " 11th and 12th " respectively. |
| colxii | Do. . . | B | Cocanada . . | Pressure . . | 4 | *For* " 29·86 " *read* " 29·866." |
| colxiii | Do. . . | B | Hyderabad Deccan | Wind velocity . | 36 and 38 | *For* " 2·7 and —1·2 " *read* " 2·3 and —1·6 " respectively. |
| colxiv | Do. . . | B | Car Nicobar . | Pressure , . | 4, 6, 7, 8 and 11. | *For* " 29·830, 29·782, 29·884, 28th and ·101 " *read* " 29·831, 29·784, 29·885, 27th and ·102 " respectively. |
| colxiv | Do. . . | B | Quetta . . | Do . . | 4 to 7 and 9 | *For* " 24·728, 0, 24·688, 24·838 and 24·635 " *read* " 24·708, —·020, 24·668, 24·818 and 24·615 " respectively. |
| colxiv | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 38·1, —0·2, 58·0, +1·5, 39·7, 30·0 and 54·1 " *read* " 40·3, +2·0, 59·1, +2·6, 37·5, 32·2 and 51·9 " respectively. |
| colxiv | Do. . . | B | Chaman . . | Pressure . . | 4 to 7 and 9 | *For* " 25·757, —·042, 25·719, 25·872 and 25·663 " *read* " 25·770, —·029, 25·732, 25·885 and 25·676 " respectively. |
| colxiv | Do. . . | B | Parachinar . . | Do. . . | 9 and 11 | *For* " 24·434 and ·183 " *read* " 24·390 and ·227 " respectively. |
| colxiv | Do. . . | B | Sarain . . | Temperature of air | 17 | *For* " 34·1 " *read* " 54·1." |
| colxiv | Do. . . | B | Darjeeling . . | Pressure . . | 4 to 11 | *Reject* the figures from all the columns. |
| colxiv | Do. . . | B | Do. . . | Temperature of air | 13 to 17 and 19 | *For* " 65·1†, +4·6†, 51·4†, +1·6†, 58·3†‡ and 13·7 " *read* " 65·2, +4·7, 51·4, +1·6, 58·3 and 13·8 " respectively, |
| colxiv | Do. . . | B | Footnote . . | ..... | ... | *Omit* " ‡‡Mean of 29 days." |
| colxv | Do. . . | B | Slipper Island . | Rainfall . . | 50 and 53 | *For* " 12·05 and 65·28 " *read* " 10·50 and 63·73 " respectively." |
| colxv | Do. . . | B | Darjeeling . . | Do. . . | 50, 52 and 53 | *For* " 3 92 −0·43 and 130·43 " *read* " 3·83, —0·52 and 9·15(*b*) " respectively." |
| colxv | Do. . . | B | Do. . . | Do. . . | 54 and 55 | *Omit* " 116·18 and +14·25 ". |
| colxv | Do. . . | B | Footnote . . | ..... | ... | *Insert* a footnote " (*b*) Total rainfall since 15th September 1909." |
| colxvi | Do. . . | B | Gangtok . . | Pressure . . | 4 and 6 | *For* " 24·472 and 24·427 " *read* " 24·478 and 24·433 " respectively. |
| colxvi | Do. . . | B | Kabul . . | Do. . . | Do. . . | *For* " 24·330 and 24·299 " *read* " 24·328 and 24·297 " respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B, AND C—*contd.*

| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| cclxvii | October 1909 . . | B | Meshed . . | Rainfall . . | 52 | *For* " —·003" *read* " +·003." |
| cclxx | Do. . . | C | Ahwaz** . . | Temperature of air | 6 | *For* " 170·5" *read* " 79·5." |
| cclxxiv | November . . | A | Rangoon . . | Pressure . . | 8 | *For* " —·010" *read* " —·028." |
| cclxxiv | Do. . . | A | Quetta . . | Do. . . | 4, 5 and 7 to 9 | *For* " 24·781, 24·709, 24·735, +·006 and 24·695" *read* " 24·761, 24·689, 24·715, —·014 and 24·675" respectively. |
| cclxxiv | Do. . . | A | Do. . . | Temperature of air | 11, 12, 14, 15, 18 and 19. | *For* "30·7, 40·1, 21·5, 55·9, 50·3 and +2·3" *read* "32·9, 37·9, 23·7, 53·7, 51·4 and +3·4" respectively. |
| cclxxv | Do. . . | A | Srinagar . . | Wind velocity . | 51 | *For* " 32" *read* " 27." |
| cclxxv | Do. . . | A | Quetta . . | Vapour tension and Humidity. | 24, 27 to 29, 32 and 33 | *For* "·171, ·137, —·020, 99, 52 and +1" *read* "·150, ·130, —·027, 78, 45 and —6" respectively. |
| cclxxvi | Do. . . | A | Darjeeling . . | Pressure . , | 4 to 9 | *Reject* the figures from all the columns. |
| cclxxix | Do. . . | B | North-West Frontier Province. | Rainfall . . | 19 and 20 | *For* " 0·48 and —0·47" *read* " 0·47 and —0·46" respectively. |
| cclxxxii | Do. . . | B | Chaibassa . . | Temperature of air | 14, 16 and 18 | *For* "+1·8, —2·5 and —0·3" *read* " +2·0, —1·6 and +0·2" respectively. |
| cclxxxiv | Do. . . | B | .. ... | Page No . . | ... | *For* " cclxxxv" *read* " cclxxxiv". |
| Do. | Do . . | B | ..... | Number of Sub-Division. | 1 | *For* " 16" *read* " 10" against Cawnpore. |
| cclxxxviii | Do . . | B | Mysore . . | Temperature of air | 13, 14, 17 to 21 and 24. | *For* " 83·7, +1·2, 74·1, +0·8, 19·2, 86·5, 19th and 28·5" *read* " 83·5, +1·0, 74·0, +0·7, 19·0, 85·0, 6 days and 27·0" respectively. |
| Do. | Do. . . | B | Pudukkottai . . | Do. . . | 15, 17 and 19 | *For* " 73·0, 81·1 and 16·1" *read* " 73·2, 81·2 and 15·9" respectively. |
| Do. | Do. . . | B | ... .. | Number of Sub-Division. | 1 | *For* " 3" *read* " 34" against Nellore. |
| cclxxxix | Do. . . | B | Kurnool . . | Hygrometry . | 43 | *For* " ·439" *read* " ·489". |
| ccxc | Do. . . | B | Quetta . . | Pressure . . | 4 to 7 and 9 | *For* " 24·772, +·003, 24·732, 24·893 and 24·651" *read* " 24·752, —·017, 24·712, 24·873 and 24·631" respectively. |
| Do. | Do. . . | B | Chaman . . | Do. . , | 4 to 9 and 10 | *For* " 25·822, —·016, 25·781, 95·918, 30th, 25·684, and ·234" *read* " 25·834, —·004, 25·796, 25·946, 10th, 25·697 and ·249". |
| Do. | Do. . . | B | Mount Abu . . | Station . . | 2 | *For* " Mount Abu§" *read* " Mount Abu †". |
| Do. | Do. . . | B | Do. . . | Temperature of air | 15 to 19, 22 and 24. | *For* " 31·0, —1·1, 51·2, +2·7, 40·3, 21·5 and 56·1" *read* " 33·2, +1·1, 52·3, +3·8, 38·1, 23·7 and 53·9" respectively. |
| Do. | Do. . . | B | Parachinar . . | Pressure . . | 4, 6, 9, 10 and 11. | *For* " 24·54, 24·513, 24·476, 15th and ·155" *read* " 24·544, 24·511, 24·412, 6th and ·219" respectively. |
| Do. | Do. . . | B | Darjeeling . . | Do. . . | 4 to 11 . . | *Reject* all the figures given. |
| Do. | Do. . . | B | Mount Abu . . | Do. . . | 4 and 6 . | *For* " 26·163 and 26·113" *read* " 26·164 and 26·114" respectively. |
| Do. | Do. . . | B | Do. . . | Temperature of air | 12 to 15, 17 to 21, and 24. | *For* " 67·8, 74·0, +0·9, 58·6, 66·3, +1·0, 15·4, 79·7, 2nd and 27·3" *read* " 67·5, 73·8, +0·8, 58·5, 66·1, +0·9, 15·3, 77·7, 13th and 25·3" respectively. |
| ccxci | Do. . . | B | Slipper Island . | Rainfall . . | 53 | *For* " 70·95" *read* " 69·40". |
| Do. | Do. . . | B | Darjeeling . . | Do. . . | 53 to 55 . | *For* " 130·39, 116·54 and +13·85" *read* " 9·20 (*b*) ..... and ....." respectively. |

# Corrigenda in the India Monthly Weather Reviews for the year 1909.

## TABLES A, B AND C—*concld.*

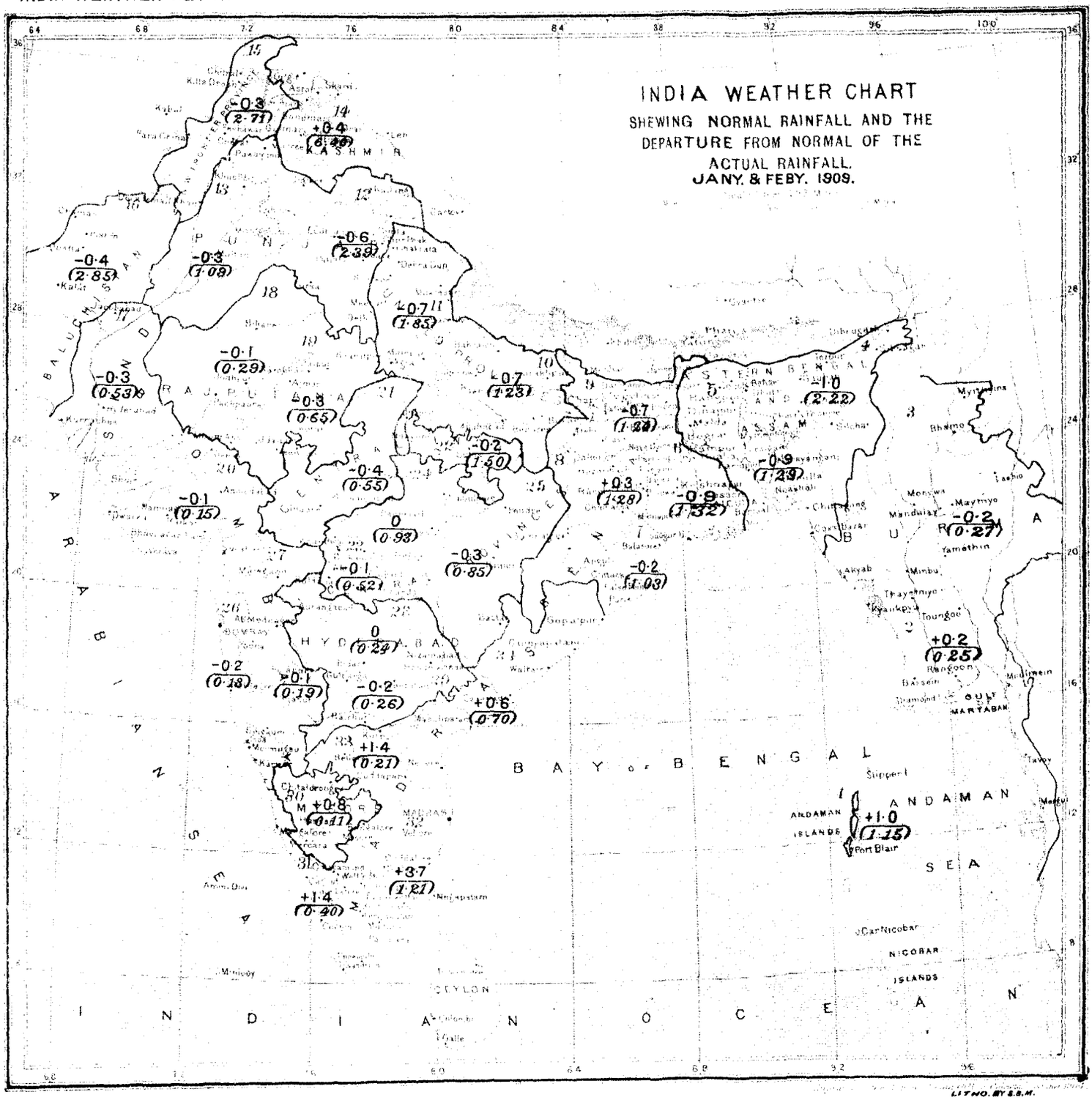
| Page. | Part. | Table. | Meteorological Province or Station. | Heading. | Column No. | Correction. |
|---|---|---|---|---|---|---|
| ccxci | November 1909 | B | ..... | ..... | ... | *Insert* a footnote "(*b*) Total rainfall since 15th September 1909". |
| Do. | Do. | B | Mount Abu | Wind direction | 31 and 34 | *For* "5 and N62°W" *read* "4 and N51°W" respectively. |
| Do. | Do. | B | Do. | Wind velocity | 36 and 38 | *For* "5·4 and +1·0" *read* "4·8 and +0·4" respectively. |
| Do. | Do. | B | Do. | Hygrometry | 43 and 44 | *For* "·283 and +·017" *read* "·279 and +·013" respectively. |
| ccxcii | Do. | B | Pharijong | Pressure | 4 and 6 | *For* "15·804 and 15·763" *read* "15·804 and 15·763" respectively. |
| ccxcii | Do. | B | Gangtok | Pressure | 4 and 6 to 11 | *For* "24·520, 24·475, 24·598, 10th, 24·433, 6th and ·165" *read* "24·521, 24·476, 24·580, 29th, 24·443, 8th and ·137" respectively. |
| ccxcii | Do. | B | Kabul | Do. | 4, 6, 7, 8 and 11. | *For* "24·382, 24·351, 24·567, 14th and ·292" *read* "24·385, 24·354, 24·490, 15th and ·215" respectively. |
| ccxcii | Do. | B | Beirut | Do. | 6 | *For* "29·997" *read* "30·013". |
| ccxciii | Do. | B | Minicoy | Rainfall | 50, 52, 53 and 55. | *For* "1·69, −2·46, 33·97 and −11·76" *read* "1·77 −2·38, 48·57 and +2·84" respectively. |
| ccxciii | Do. | B | Kashgar (*c*) | Wind direction | 34 | *For* "(*a*)" *read* "(*f*)". |
| ccxciii | Do. | B | Kerman | Wind velocity | 36 | *For* "3 33" *read* "3·5*h*". |
| ccxciii | Do. | B | ..... | Footnote | ... | *For* "(*a*) Indeterminate" *read* "(*f*) Indeterminate". |
| ccxciii | Do. | B | ..... | Do. | ... | Insert "*h* Mean of 28 days." |
| ccc | December | A | Bombay | Temperature of air | 10 | *For* "3·7" *read* "83·7". |
| ccci | Do. | A | Udaipur (§) | Rainfall | 53 and 54 | *For* "0 and 0" *read* "0·18 and 0·15" respectively. |
| cccii | Do. | A | Darjeeling | Pressure | 4 to 9 | *Reject* the figures from all the columns. |
| cccii | Do. | A | Pachmarhi | Rainfall | 53 | *For* "3·12" *read* "3·45". |
| cccv | Do. | B | Do. | Do. | 18 to 20 | *For* "1·86, 0·49 and +1·37" *read* "1·76, 0·50 and +1·26" respectively. |
| cccv | Do. | B | Rajputana | Do. | 18 and 20 | *For* "0·94 and +0·61" *read* "0·93 and +0·60" respectively. |
| cccv | Do. | B | Central India | Do. | Do. | *For* "0·72 and +0·32" *read* "0·79 and +0·39" respectively. |
| cccviii | Do. | B | Chaibassa | Temperature of air | 14, 16 and 18 | *For* "−21, +1·9 and −0·1" *read* "−1·7, +3·1 and +0·7" respectively. |
| cccxvi | Do. | B | Quetta | Do. | 15 to 19 and 22 and 24. | *For* "26·6, −3·1, 40·2, −2·9, 27·2, 21·5 and 42·6" *read* "29·3, −0·4, 41·5, −1·6, 24·5, 24·2 and 39·9" respectively. |
| cccxvi | Do. | B | Darjeeling | Pressure | 4 to 11 | *Reject* all the figures given. |
| cccxviii | Do. | B | Baghdad | Station | 2 | *For* "Baghdad" *read* "Baghdad *h*". |
| cccxix | Do. | B | Amini Divi | Wind velocity | 36 | *For* "6 5" *read* "6·0 (*e*)". |

G. C. B. P., Simla.—No. 221 M. R. G. L—8-12 10—405—H.C S L.

Reg. No. 7501 E., 10 — 7 —450

The country is divided into 34 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. Eastern Bengal
6. Bengal
7. Orissa
8. Chota Nagpur
9. Bihar
10. United Provinces, East
11. Do., West
12. Punjab, East and North
13. Do., Southwest
14. Kashmir
15. Northwest Frontier Province
16. Baluchistan
17. Sind
18. Rajputana, West
19. Rajputana, East
20. Gujarat
21. Central India, West
22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
26. Konkan
27. Bombay, Deccan
28. Hyderabad, North
29. Do., South
30. Mysore
31. Malabar
32. Madras, Southeast
33. Madras, Deccan
34. Madras Coast, North




The country is divided into 34 areas as shewn in the list below. The numbers in that list correspond with the red numbers on the chart, and serve to identify the areas. The numbers in brackets on the chart give the average over the divisions of the normal monthly rainfall; the numbers above these give the departures from normal of the average actual rainfall over the divisions.

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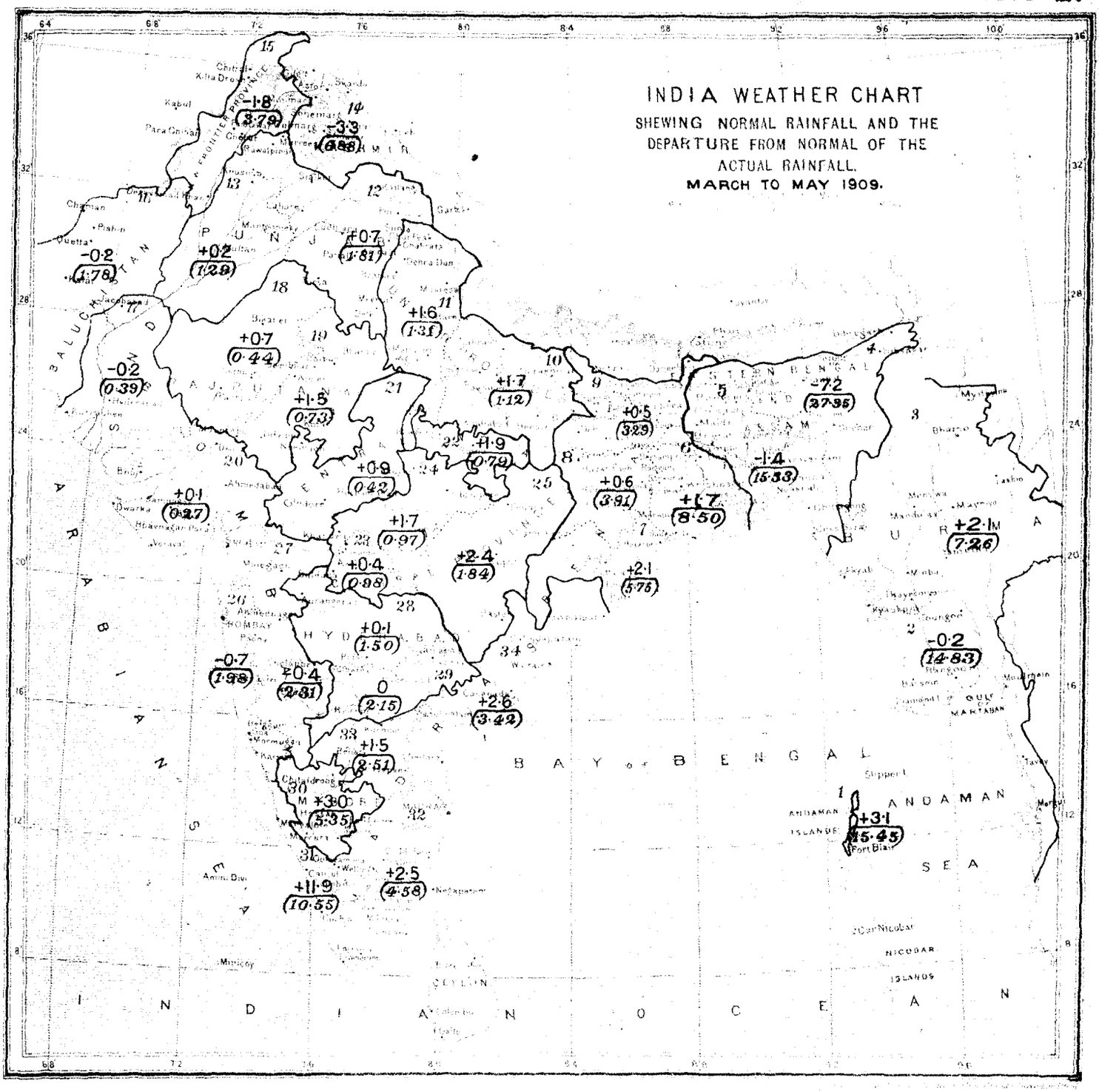


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LITHO by N. L. HALDER.

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12. Punjab, East and North
13. Do., Southwest
14. Kashmir
15. Northwest Frontier Province
16. Baluchistan
17. Sind
18. Rajputana, West
19. Rajputana, East
20. Gujerat
21. Central India, West
22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
26. Konkan
27. Bombay, Deccan
28. Hyderabad, North
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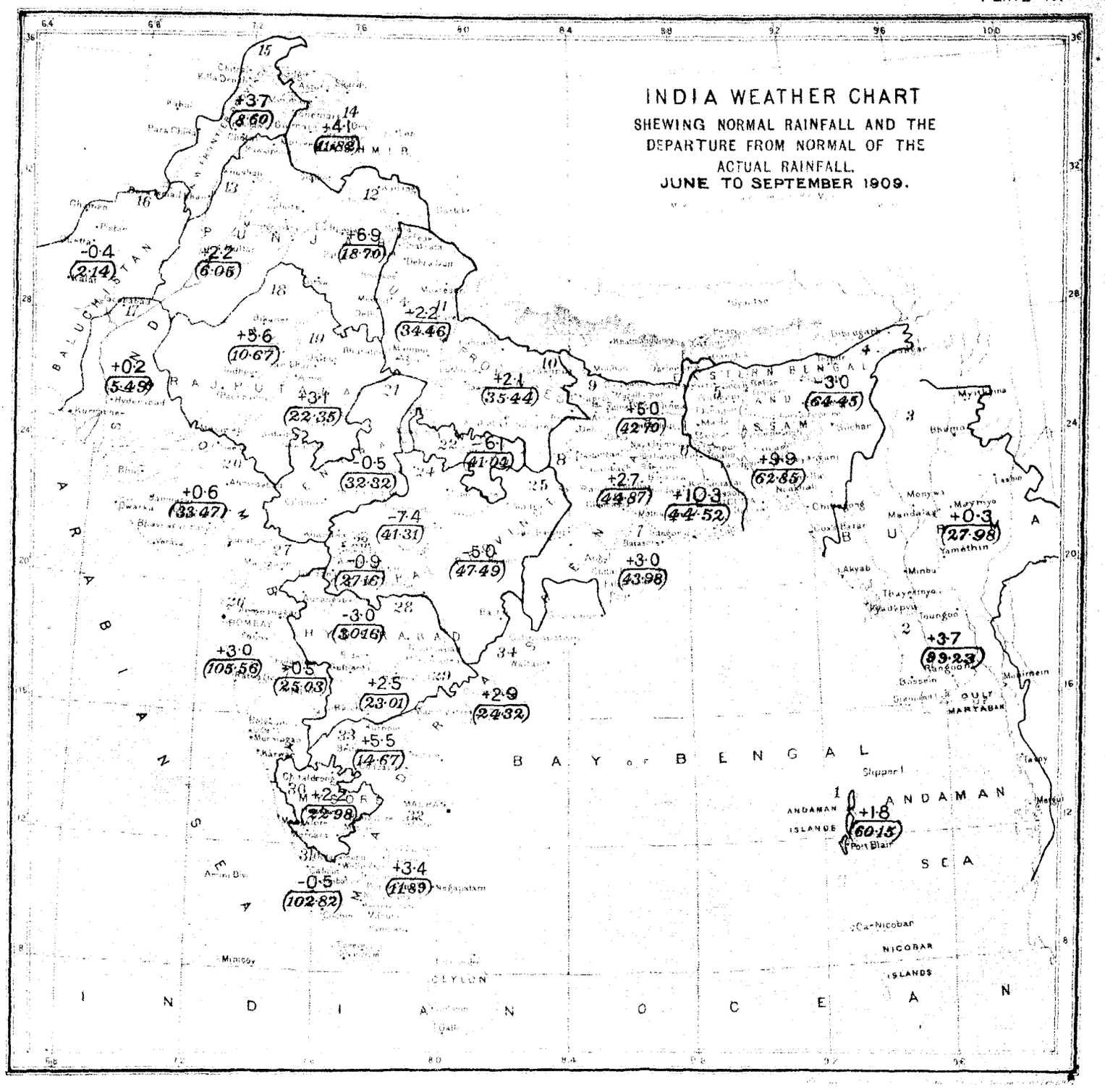


Reg. No. 2501 K., 10 — 3.—1,800.

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17. Sind
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19. Rajputana, East
20. Gujarat
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22. Do., East
23. Berar
24. Central Provinces, West
25. Do., East
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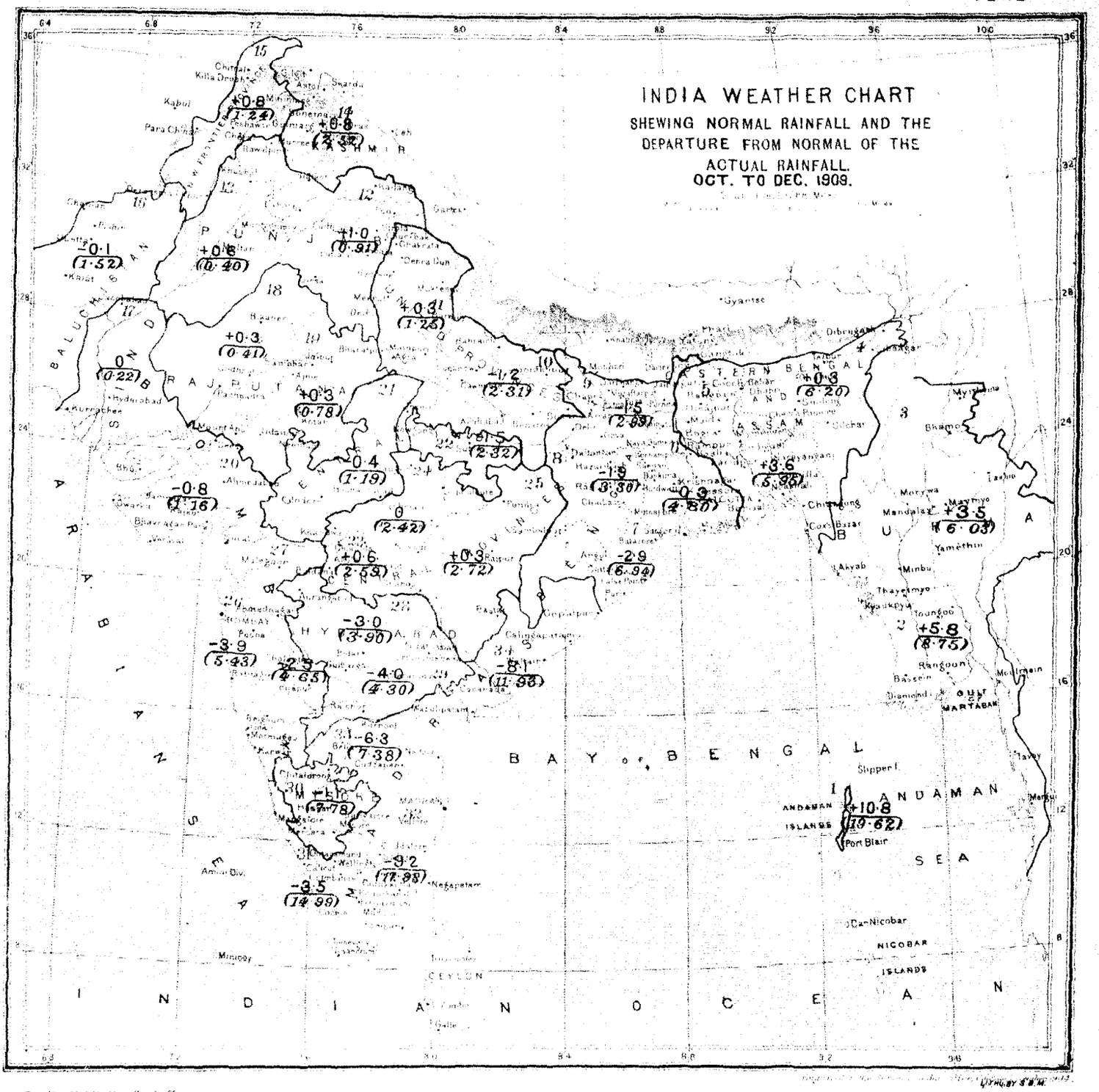


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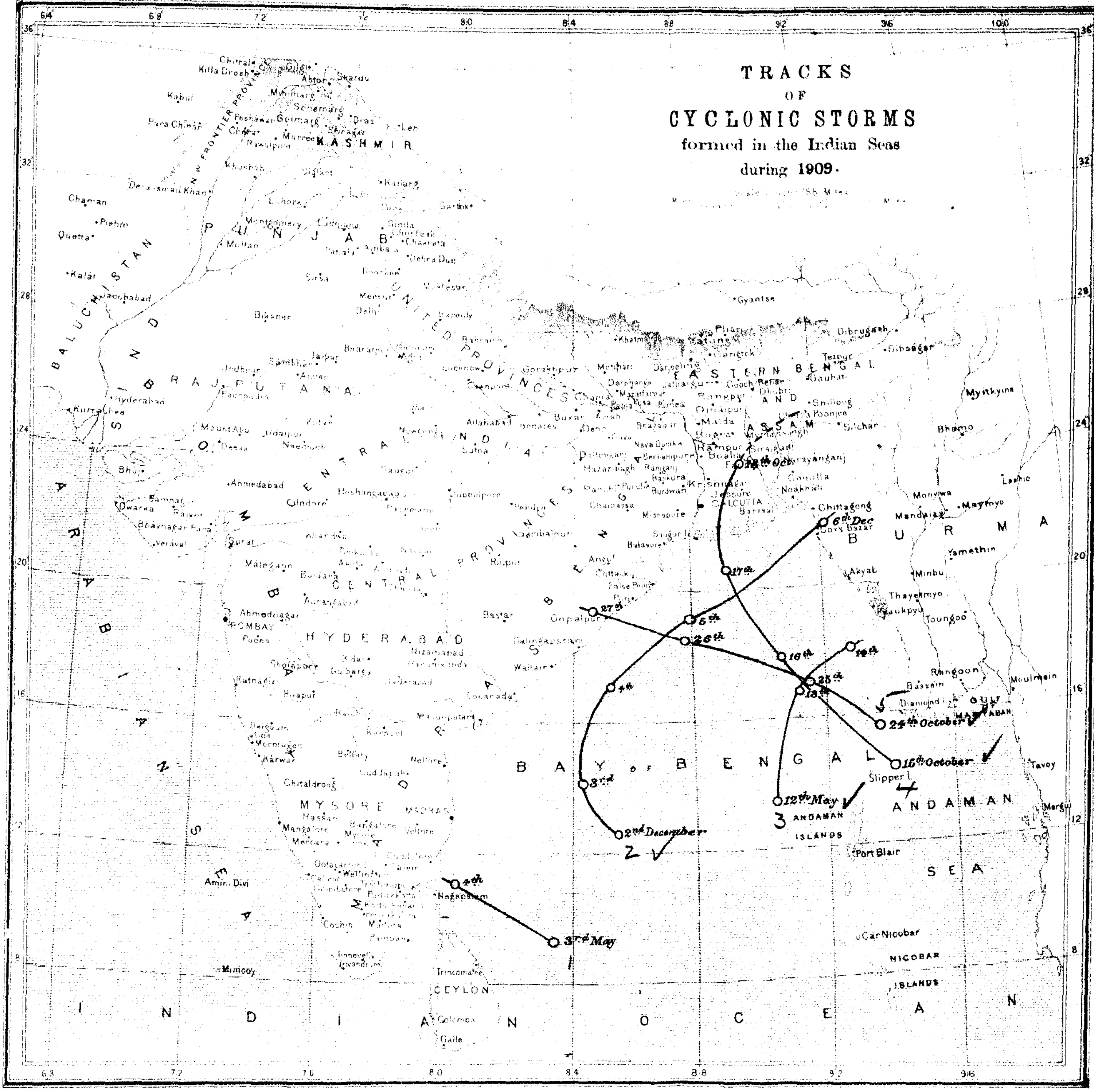


Reg. No. 2501 E 10 — Z —450

(*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. |
| Cyclone Memoirs, Part I—Bay of Bengal Cyclone of May 20th to 28th, 1887. (1888) . . . . . Price Re. 1* | Ditto. |
| Cyclone Memoirs, Part II—Bay of Bengal Cyclone of August 21st to 28th, 1888. (1890) . . . . . Price Rs. 3 | Ditto. |
| Cyclone Memoirs, Part III—Bay of Bengal Cyclones of September 13th to 20th, and October 27th to 31st, 1888, and Arabian Sea Cyclone of November 6th to 9th, 1888. (1890) . Price Rs. 5 | Ditto. |
| 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. |
| Report of the Vizagapatam and Backergunge Cyclones of October, 1876. (1877) . . . . . Price Rs. 3* | Sir John Eliot. |
| 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. |
| Reports on the Meteorology of India for the years 1875—1890 (16 volumes)‡ . . . . . Price each Rs. 10 | Ditto. |
| **Indian Meteorological Memoirs, Vol. I, containing :—** | |
| Part I, comprising— | |
| On the winds of Calcutta—An analysis of ten years' hourly observations of the wind vane and four years' anemograms. | |
| The meteorology and climate of Yarkhand and Kashgar, being chiefly a discussion of registers kept by Dr. J. Scully in 1874-75. | Henry F. Blanford. |
| The diurnal variation of the barometer at Simla . Price Rs. 3* | |
| Part II, comprising— | |
| Storms in Bengal during the year 1876, accompanied with increased atmospheric pressure and the apparent reversal of the normal diurnal oscillation of the barometer . . . . | Sir John Eliot. |
| On the rainfall of Benares considered in relation to the prevailing winds . . . . . | S. A. Hill. |
| On the diurnal variation of the barometer at Indian stations, Part I ; Calcutta and Hazaribagh . . . . . Price Rs. 3* | Henry F. Blanford. |
| Part III, comprising— | |
| Variation of rainfall in Northern India . . . . . | S. A. Hill. |
| Meteorological and hypsometrical observations in Western Tibet, recorded by Dr. J. Scully, with a discussion . . . . Price Rs. 3 | Henry F. Blanford. |
| Part IV, comprising— | |
| The winds of Kurrachee . . . . . Price Rs. 3 | Fred. Chambers. |
| Part V, comprising— | |
| Some results of the meteorological observations taken at Allahabad during the ten years 1870—79 . . . . . | S. A. Hill. |
| The diurnal variation of the barometer at Indian stations, Part II, Goalpara, Patna and Leh . . . . . Price Rs. 3 | Henry F. Blanford. |
| Part VI, comprising— | |
| The Meteorology of the North-West Himalaya . Price Re. 1 | S. A. Hill. |
| **Indian Meteorological Memoirs, Vol. II, containing :—** | |
| Part I, comprising— | |
| Account of the south-west monsoon storm of the 18th to the 24th of September, 1878, in the north of the Bay of Bengal . . | Sir John Eliot. |
| 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. |
| Part II, comprising— | |
| Note on the foregoing list of cyclones and on the Gujarat land-cyclone of July 11th to 13th, 1881 . . . . . | Henry F. Blanford. |
| On the temperature of North-Western India . . . . Price Rs. 2 | S. A. Hill. |
| Part III, comprising— | |
| Account of the south-west monsoon storms of the 8th to the 19th October, 1882, in the Bay of Bengal . . . Price Rs. 2 | Sir John Eliot. |
| 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. |
| **Indian Meteorological Memoirs, Vol. IV, containing :—** | |
| Part I, comprising— | |
| Account of the south-west monsoon storm of the 12th to the 17th of May, 1884, in the Bay of Bengal and at Akyab . . . | Sir John Eliot. |
| On the diurnal variation of the rainfall at Calcutta . . . | Henry F. Blanford. |
| The meteorological features of the southern part of the Bay of Bengal . . . . . Price Rs. 3* | W. L. Dallas. |
| Part II, comprising— | |
| The False Point cyclone of September 22nd, 1885. Price Rs. 2* | Sir Alexander Pedler. |
| Part III, comprising— | |
| On the ground temperature observations made at the old observatory, Allahabad . . . . . Price Rs. 1-8* | S. A. Hill. |
| 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. |
| Part V, comprising— | |
| The cyclonic storms of November and December, 1886, in the Bay of Bengal . . . . . | Ditto. |
| The cyclone of the 25th May to the 2nd June, 1881, in the Arabian Sea . . . . . Price Rs. 3 | Fred. Chambers. |
| Part VI, comprising— | |
| On temperature and humidity observations made at Allahabad at various heights above the ground . . . Price Rs. 1-8 | S. A. Hill. |
| Part VII, comprising— | |
| The Arabian Sea cyclone of the 4th to the 13th June, 1887 . . | Fred. Chambers. |
| On the Meteorology and Climatology of Northern Afghanistan Price Rs. 1-8* | W. L. Dallas. |
| 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.

**Indian Meteorological Memoirs, Vol. VI, containing :—**

Part I, comprising—
The relation between sunspots and weather as shown by meteorological observations taken on board ships in the Bay of Bengal during the years 1856 to 1879 . . . . . — W. L. Dallas.

Investigation into the mean temperature, humidity and vapour tension conditions of the Arabian Sea and Persian Gulf . . . Price Rs. 2* — Ditto.

Part II, comprising—
A preliminary discussion of certain oscillatory changes of pressure of long period and of short period in India . . Price Re. 1* — Sir John Eliot.

Part III, comprising—
The hot winds of Northern India . . . . . — Ditto.
An account of a storm developed in equatorial regions . . . Price Rs. 2* — W. L. Dallas.

Part IV, comprising—
Hailstorms in India during the period 1883—1897 with a discussion on their distribution . . . . . Price Re. 1* — Sir John Eliot.

Part V, comprising—
A discussion of the anemographic observations recorded at Simla during the period September, 1893, to August, 1896, and at Darjeeling during the period April, 1885, to December, 1896, and an investigation into the general features of the air movement in the Himalayan mountain area . . . . . Price Re. 1* — Ditto.

Part VI, comprising—
A discussion of the anemographic observations recorded at Darjeeling during the period May, 1885, to May, 1896, and an investigation into the general features of the air movement in the Sikkim Himalayas . . . . . Price Re. 1* — Ditto.

Part VII, comprising—
A discussion of the thunderstorm observations recorded in 1897 at ten selected stations in India . . . . . Price Re. 1 — W. L. Dallas.

**Indian Meteorological Memoirs, Vol. VII, containing :—**

Hourly observations of pressure, temperature, vapour tension, humidity, cloud, wind dirction and velocity of wind taken at Trivandrum during the years 1853 to 1864. Complete in 7 parts. Price, each part, Rs. 1-8 — Sir John Eliot.

**Indian Meteorological Memoirs, Vol. VIII, containing :—**

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Hourly meteorological observations recorded at the Agustia observatory during the period from January, 1856, to September, 1858, and from June to December, 1864 . . . Price Rs. 2 — Ditto.

Part II, comprising—
Hourly comparative meteorological observations taken at Trivandrum, Vannatheertham (eastern station), Kalliad (western station) 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, also at Cape Comorin from 23rd September to 13th November, 1858, and at Charatha and Kamala from 20th January to 19th February, 1859 . . . . . Price Re. 1 — Ditto.

**Indian Meteorological Memoirs, Vol. IX, containing :—**

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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The discussion of the hourly meteorological observations recorded at Agustia during the years 1856—1858 and 1864 . Price Rs. 2 — Ditto.

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 I, comprising—
Observations recorded during the solar eclipse of 22nd January, 1898, at 154 meteorological stations in India . Price Re. 1* — Ditto.

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A discussion of the observations recorded during the solar eclipse of 22nd January, 1898, at 154 meteorological stations in India Price Rs. 3* — Ditto.

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Report on cloud observations and measurements in the plains of the North-Western Provinces of India during the period December, 1898, to March, 1900 . . . . . Price Re. 1* — E. G. Hill.

**Indian Meteorological Memoirs, Vol. XII, containing :—**

Part I, comprising—
A discussion on the failure of the south-west monsoon rains in 1899 . . . . . Price Re. 1* — W. L. Dallas.

Part II, comprising—
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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.

Part IV, comprising—
A Meteorological history of the seven monsoon seasons, 1893—1899, in relation to the Indian rainfall . . . Price Rs. 3* — W. L. Dallas.

**Indian Meteorological Memoirs, Vol. XIII, containing :—**

Daily normals of maximum temperature, minimum temperature, 8 A.M. air pressure reduced to 32° F. and rainfall and five-day means of normal cloud amount, relative humidity and aqueous vapour pressure at 8 A.M. . . . . Price Rs. 5* — Sir John Eliot.

**Indian Meteorological Memoirs, Vol. XIV, containing :—**

Monthly and annual rainfall of 457 stations in India to the end of 1900 . . . . . Price Rs. 3* — Ditto.

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Part II, comprising—
Report on cloud observations and measurements at Simla during the period June, 1900, to January, 1902 . . Price Re. 1* — W. L. Dallas.

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.

**Indian Meteorological Memoirs, Vol. XVI, containing :—**

Part I, comprising—
Monthly means of air-pressure reduced to 32° F. and constant gravity, Lat. 45° . . . . . Price Rs. 3 — Sir John Eliot.

Part II, comprising—
A preliminary investigation of the more important features of the Meteorology of Southern Asia, the Indian Ocean and neighbouring countries during the period 1892—1902, with Appendices . Price Rs. 3 — Ditto.

**Indian Meteorological Memoirs, Vol. XVII, containing :—**

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. XVIII containing :— | |
| Part I, comprising— | |
| A discussion of the anemographic observations recorded at Rangoon from June, 1878, to October, 1901, and at Chittagong from June, 1879, to December, 1896 . Price Rs. 2. | Sir John Eliot. |
| Part II, comprising— | |
| A discussion of the anemographic observations recorded at Saugor Island from March, 1880, to February, 1904, and at Alipore (Calcutta) from March, 1877, to February, 1904. Price Rs. 2. | Ditto |
| Part III, comprising— | |
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| Part IV, comprising - | |
| A discussion of the anemographic observations recorded at Roorkee from September, 1879 to August, 1904; at Lahore from January, 1890 to December, 1904; and at Mussooree from May to October, 1877-1888 . . . Price Rs. 2. | Ditto. |
| Memoirs of the Indian Meteorological Department, Vol. XIX. | |
| Part I, 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. | Ditto. |
| *(Other parts to follow.)* | |
| Memoirs of the Indian Meteorological Department, Vol. XX, containing :— | |
| Part I, comprising - | |
| An account of the preparations made for determining the conditions of the upper air in India by means of kites . . . Price Re. 1 * | J. H. Field. |
| Part II, comprising— | |
| Kite flights made at Belgaum during the premonsoon and monsoon periods in 1906 . . . . . Price Re. 1. | Ditto. |
| Part III, comprising— | |
| The Simla seismograms obtained between June, 1905, and November, 1908 . . . . . Price Rs. 2. | J. Patterson. |
| Part IV, comprising— | |
| A discussion of types of Weather in Madras . Price Re. 1. | R. Ll. Jones. |
| Part V, comprising— | |
| A discussion o some of the anemographic observations recorded at Madras . . . . . Price Re. 1. | Ditto. |
| Part VI, comprising— | |
| Correlation in seasonal variation of climate (Introduction) Price Re. 1. | Gilbert T. Walker. |
| Part VII, comprising— | |
| Kite flights in India and over the neighbouring sea areas during 1907 . . . . . Price Re. 1. | J. H. Field. |
| Part VIII, comprising— | |
| On the electricity of rain and its origin in thunderstorms Price Rs. 3. | George C. Simpson. |
| Memoirs of the Indian Meteorological Department, Vol. XXI, containing :— | |
| Part I, comprising— | |
| On the Meteorological evidence for supposed changes of climate in India . . . . . Price Rs. 1-8. | Gilbert T. Walker. |
| Part II, comprising — | |
| Correlation in seasonal variations of weather, II Price Rs. 1-8. | Ditto. |
| Tables for the reduction of Meteorological Observations in India, (1910) . . . . . Price Rs. 2. | George C. Simpson. |
| Magnetical, Meteorological and Seismological Observations made at the Government Observatory, Bombay . . . | N. A. F. Moos. |
| Rs. A. P. | |
| 1898-99 . . . . . Price 5 8 0* | |
| 1900-01 . . . . . Price 4 8 0 | |
| 1902-05 . . . . . Price 14 10 0 | |
| Kodaikanal Observatory Bulletins, Nos. I to XX . . . | C. Michie Smith |

PERIODICAL PUBLICATIONS OF THE DEPARTMENT.

| | |
|---|---|
| Rainfall Data of India for the years 1891-1907 (17 Vols.). Price, for each year, Rs. 5.* | Departmental. |
| Rainfall Data of India for the year 1908 . . Price Rs. 5. | Ditto. |
| Annual Rainfall of India; 1901—1909 (9 Vols.)† . . . | Ditto. |
| India Weather Review-Annual Summaries for the years 1891-1909 (19 parts)‡ . . . . . Price each Rs. 3. | Ditto. |
| Monthly Weather Reviews for each month January, 1891, to May, 1910§ . . . . . Price each part Re. 1. | Ditto. |
| Indian Daily Weather Report, published in Simla, Monthly subscription Rs. 2‖ | Ditto. |
| Bengal Daily Weather Report, published in Calcutta, Monthly subscription Rs. 3‖ | Ditto. |
| Bombay Daily Weather Report, published in Bombay, Monthly subscription Rs. 2‖ | Ditto. |
| Madras Daily Weather Report, published in Madras, Monthly subscription Rs. 1-8‖ | Ditto. |

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

† Copies for 1901 to 1906 are out of print.

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METEOROLOGICAL DEPARTMENT

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# JANUARY, 1909

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GOVERNMENT OF INDIA.

METEOROLOGICAL DEPARTMENT.

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## ANNUAL SUMMARY, 1909.

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