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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

INDIA WEATHER REVIEW

ANNUAL SUMMARY FOR 1929

PART A.

SUMMARY OF WEATHER AND RAINFALL

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UNDER THE DIRECTION OF

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ANNUAL SUMMARY, 1929.

PART A.

SUMMARY OF WEATHER AND RAINFALL.

SECTION I.

Chief Features of Weather in 1929.

1. The rainfall of the cold weather months, January and February, was in very large excess in Hyderabad and Mysore, the former division recording five times the normal amount. It was in slight to moderate excess in northeast and Central India and in the Madras Presidency, normal in Burma, the United Provinces and the Bombay Presidency, in moderate defect in the North-West Frontier Province and in large defect elsewhere. Averaged over the plains of India, it was 12 per cent. in excess.

An unusually severe cold wave passed over northern and Central India and the adjacent parts of the Peninsula during the week ending the 3rd February. The snow line descended to the plains of the north Punjab and at many places crops were damaged by frost.

2. In the hot weather months, March to May, the total rainfall was in large excess in Assam and Mysore, in slight excess in Burma, Bombay and Madras, in slight defect in Bengal and in moderate to large defect elsewhere. Averaged over the plains of India, it was in excess by 4 per cent.

In March there was a continuous spell of abnormal heat over northwest India, lasting for about three weeks ; during this period, maximum temperatures were, on an average, 15° above normal in Baluchistan and about 10° in the other sub-divisions.

3. The rainfall for the southwest monsoon months, June to September, was in large excess in the North-West Frontier Province and Sind, in slight excess in Burma, nearly normal in northeast India, the Central Provinces, Mysore and Madras, and in slight defect elsewhere. Averaged over the plains of India, it was in defect by 1 per cent.

4. During the retreating monsoon period, October to December, rainfall was in very large excess in Bihar and Orissa, the Punjab and Sind, about twice the normal amount in Bengal and in moderate excess in Assam and the North-West Frontier Province. It was nearly normal in Bombay, the Central Provinces, Mysore and Madras, and in moderate to large defect in the remaining divisions. Averaged over the plains of India, it was in excess by 10 per cent.

In December, there was a spell of exceptionally cold days over northwest India. Mean maximum temperature in that month was 8° below normal in Baluchistan and more than 5° below normal in several other sub-divisions.

5. The rainfall for the whole year exceeded twice the normal amount in Sind ; elsewhere, it did not differ by more than 25 per cent. from the normal. Averaged over the plains of India, the year's rainfall was in excess by 1 per cent.

SECTION II.

General Remarks on the weather of 1929.

I. *The Cold Weather Period, January and February.*—Of the six western disturbances during ***January,*** the fourth and fifth were particularly active and caused widespread rain in the United Provinces, the central parts of the country and northeast India, with some heavy falls along the western Himalayas and in Bengal. In northwest India, however, rainfall was considerably below the average. Under the influence of a storm in the Bay, the northeast monsoon, temporarily revived in the south of the Peninsula. The month's rainfall was in very large excess in northeast India and 41 per cent. above normal on an average over the plains of the whole country.

During ***February,*** eight disturbances entered India from the west, but they were generally feeble and rainfall was much less than usual over the whole of northern India. In Lower Burma including the Bay Islands, in the Peninsula and in parts of the Central Provinces, on the other hand, thunderstorms caused a very large excess of rain, some of the falls in south Madras being particularly heavy for the time of the year. Averaged over the plains of India, the month's rainfall was in defect by 13 per cent.

The total rainfall during the two months was five times the normal amount in Hyderabad, more than twice the normal amount in the Bay Islands, Berar, Mysore and the Madras Deccan, and also in large excess in Chota Nagpur, Bihar, the east United Provinces and the north Madras coast. It was in slight to moderate excess in Lower Burma, Assam, Bengal, east Central India, the west Central Provinces, the Bombay Deccan, Malabar and southeast Madras, normal or in slight defect in Orissa, Kashmir, Baluchistan, west Central India and the east Central Provinces and in moderate to large defect in the remaining sub-divisions.

A very remarkable feature in this period was an unusually severe cold wave, which began to advance eastwards across the frontier towards the close of January and prevailed over northern and Central India and the adjacent parts of the Peninsula till the 3rd February. During this period the snowline descended to the plains of the north Punjab, and several stations in northwest India recorded minimum temperatures below freezing point. At many places all previous records of minimum temperatures were broken and standing crops suffered considerable damage due to frost. Both the mean maximum and mean minimum temperatures in January were above normal in Lower Burma and Mysore, and below it in the North-West Frontier Province and west Central India. The maximum alone was above normal in south Hyderabad and the minimum alone in Bengal, Orissa, Chota Nagpur, the Madras Deccan and the north Madras coast; the minimum was lower than usual in Baluchistan, Rajputana and Gujarat. In February the mean maximum temperature was below normal in the Bay Islands, Orissa, Chota Nagpur, the south-west Punjab, Kashmir, the North-West Frontier Province, west Central India, the Central Provinces, Hyderabad and the Madras Deccan, and the minimum in Upper Burma, Bihar, the west United Provinces, east Rajputana and east Central India; on the other hand, the minimum was above normal in Baluchistan, north Hyderabad, Mysore and the Madras Deccan.

Cloud amount was in considerable excess in Bengal and Bihar and Orissa in January, and in Sind in February.

Humidity was in marked excess in Hyderabad in February.

II. *The Hot Weather Period, March to May.*—***March,*** was unusually hot and dry over most of the country, there being no rain in Sind, Rajputana, Gujarat and Central India. The four western disturbances during the month were practically inactive in northwest India outside the North-West Frontier Province and Kashmir, but two of them gave some rain and hail in the east United Provinces, northeast India and Upper Burma; a few stations in Orissa, Bengal and Assam recorded heavy falls. Thunderstorms were frequent in south Madras and Lower Burma. Averaged over the plains of India, the month's rainfall was in defect by 44 per cent.

The six western disturbances during ***April,*** caused widespread dust or thunderstorms in northwest India but the associated rainfall was much less than usual in the Punjab, Kashmir, the North-West Frontier Province, Baluchistan, west Rajputana and the east United Provinces. One of the disturbances gave numerous thundershowers in Bengal, Assam and Upper Burma and another in Bihar and Bengal; in Assam and southeast Bengal there was also extensive rain including some heavy falls, owing to a marked activity of the eastern half of the seasonal trough of low pressure, during the last week. Thundershowers occurred very often in the Peninsula and south Burma. The month's rainfall was in moderate to large excess in Upper Burma, Assam, Bengal, Gujarat, Berar, the west Central Provinces and the Peninsula excluding the north Madras coast, and normal or in slight excess in Lower Burma, Bihar, east Rajputana and Central India. Averaged over the plains of India, it was 46 per cent. in excess.

In ***May,*** unsettled weather, with nearly general and locally heavy rain, continued in Assam for the first eleven days. There was a temporary advance of the southwest monsoon in the Andaman Sea on the 10th, and a depression which formed in the Bay by the 13th, developed into a storm, entered inland near Akyab on the next day, and caused widespread and locally heavy rain in Burma with a temporary extension of rainfall into the east United Provinces through Bihar and Chota Nagpur. The monsoon remained active in south Burma till the end of the month and extended into north Burma on the 29th. In the Peninsula scattered thundershowers occurred on almost all days. The Arabian Sea monsoon made its first appearance in the Peninsula with heavy rain in Kanara on the 29th and had extended into the Konkan by the 31st. Northwest India was visited by three western disturbances which were much less active than usual. The month's rainfall was in moderate to large excess in Upper Burma and Assam, in slight excess in west Rajputana and Mysore, normal in the Bay Islands, Lower Burma and the Madras Deccan, and in moderate to large defect elsewhere. Averaged over the plains of India, it was 1 per cent. in defect.

The total rainfall of the period, March, to May, was in large excess in Assam and Mysore, in slight to moderate excess in the Bay Islands, Upper Burma, the Konkan, the Bombay Deccan, Malabar, southeast Madras and the Madras Deccan, normal or in slight defect in Lower Burma, Bengal and Bihar, and in moderate to large defect in the remaining sub-divisions.

In March there was a continuous spell of abnormal heat over northwest India, lasting for about three weeks; during this period maximum temperatures were, on an average, 15° above normal in Baluchistan and about 10° in the other sub-divisions. The monthly mean maximum temperature was above normal in Assam, Bihar, the United Provinces, northwest India, the central parts of the country and the Konkan, and below normal in the Bay Islands; the minimum was above normal in the Punjab, the North-West Frontier Province, Baluchistan, Sind, west Rajputana and the Konkan. In April the mean maximum and minimum temperatures were both higher than usual in northwest India (excepting Gujarat and Rajputana), and the minimum alone in the east United Provinces, west Rajputana and Gujarat. Maximum temperatures were, on the other hand, below normal in the Bay Islands, Upper Burma and in the Peninsula (excluding the Konkan, Malabar and the north Madras coast). The monthly means of both maximum and minimum temperatures in May were above normal in Bihar and Orissa, the United Provinces, the east and north Punjab, the North-West Frontier Province, the Central Provinces and Hyderabad; the maximum alone was higher than usual in east Central India and the minimum alone in Baluchistan. Maximum temperature was below normal in Upper Burma and Assam.

Cloud amount was in considerable excess in Mysore and the Madras Presidency in April.

Humidity was in marked defect in the North-West Frontier Province throughout the period, in the Punjab in March and May, in Rajputana in March, and in the United Provinces in May; the aqueous vapour pressure in the North-West Frontier Province in May was below normal by ·147".

III. *The Southwest Monsoon Period, June to September.*—The Arabian Sea monsoon extended into the south of the Peninsula on the 2nd ***June,*** and advanced northwards, through the Deccan, into Gujarat and the central parts of the country by the 9th, causing some heavy falls of rain in the west coast during this period. Thereafter it weakened, but, during the second fortnight, was again active in the Peninsula and extended occasionally into central and northwest India. During the month it was on the whole more active than usual in Hyderabad, Malabar and the north Madras coast, but less so in northwest India. The Bay monsoon extended into Assam and the Gangetic plain on the 1st and, in association with a depression, caused very heavy rains and severe floods in the Arakan and Chittagong divisions and in parts of Assam during the first fortnight. It then remained weak in Burma and northeast India for about a week, but strengthened thereafter. In Orissa the Central Provinces and the United Provinces a depression gave heavy rain between the 19th and 24th. The month's rainfall was in excess in Burma and Assam, but in defect in Bihar and Orissa. Averaged over the plains of India, it was 11 per cent. above normal.

In ***July*** the Arabian Sea monsoon was active over its field during the first fortnight but weakened thereafter in the Peninsula, where the month's rainfall was in defect except in Malabar, this sub-division having had unusually heavy rains and severe floods between the 4th and 7th. The Bay current was active during the whole month and was associated with five depressions, which advanced westwards or northwestwards from the head of the Bay and gave abundant rainfall in Orissa, Chota Nagpur, the Central Provinces and northwest India. Two of these depressions induced exceptionally wet weather in Sind and the adjacent parts during the second and fourth weeks and the consequent floods caused great damage to crops and some loss of life. Averaged over the plains of India, the month's rainfall was in excess by 10 per cent.

The Arabian Sea current revived in the Peninsula on the 16th ***August,*** but again weakened after the 25th. In Burma and in north and Central India, on the other hand, the monsoon was active during most of the month. In association with the Bay current, four depressions formed at the head of the Bay and the third of these gave extensive and locally heavy rain along and near its path through Orissa and the central parts of the country to Rajputana and thence northwards to the Punjab, between the 23rd and 29th. Owing to the very heavy rains in the Punjab, Kashmir and the frontier hills, the Indus, the Kabul, the Jhelum and the Chenab rivers were flooded, causing considerable loss of life and property. The other three depressions gave some heavy falls in Chota Nagpur and its neighbourhood. Averaged over the plains of India, the month's rainfall was in defect by 7 per cent.

The monsoon receded from northwest India after the 2nd ***September*** and was weak in the central parts of the country after the 8th, except for a temporary revival during the last three days of the month. Connected with the passage of a depression northwestwards off the Konkan coast, and of a storm off Malabar westwards into Arabia, the monsoon was active in the Peninsula from the 13th onwards and rainfall extended into the Central Provinces and Gujarat between the 17th and 20th. In Burma and northeast India the monsoon was active during most of the month. On the whole, the activity of the monsoon was less than usual except in Upper Burma, Assam, Bengal, the east Central Provinces, the Deccan and south Madras, the average of the month's rainfall over the plains of India being in defect by 22 per cent.

The total rainfall of the monsoon period, June to September, was in large excess in the North-West Frontier Province and Sind, and in slight to moderate excess in Lower Burma, Orissa, the south-west Punjab, Baluchistan, west Rajputana and Malabar. It was nearly normal in the Bay Islands, Upper Burma, Assam, Bengal, Chota Nagpur, the east United Provinces, Kashmir, the Central Provinces excluding Berar, Mysore and the north Madras coast, and in slight to moderate defect in the remaining sub-divisions.

In June the mean maximum temperature was above normal in east Central India and below normal in Upper Burma; the minimum was above normal in the North-West Frontier Province and Baluchistan and below normal in east Central India. In July the maximum was higher and the minimum lower than usual in east Central India and the maximum was below normal in Orissa, Chota Nagpur, the southwest Punjab, the North-West Frontier Province, Baluchistan, Sind and Rajputana. The mean maximum temperature in August was above the average in Berar, south Hyderabad and Mysore, and below it in the southwest Punjab, Kashmir, the North-West Frontier Province, Baluchistan, Sind and Rajputana. In September the maximum was higher than usual in Bihar, the United Provinces, the east and north Punjab, east Rajputana, Gujarat, Central India, the west Central Provinces, the Bombay Deccan and Mysore.

A well-marked low pressure area (relative to the normal distribution of pressure) lay over the North-West Frontier Province in June, and over Bengal and Bihar and Orissa in July.

Skies were considerably more clouded than usual in the North-West Frontier Province in July, and less clouded in the United Provinces, Rajputana and Central India in September.

Humidity was in marked defect in Rajputana in September.

IV. *The Northeast Monsoon Period, October to December.*—The southwest monsoon was already active in northeast India and was strengthening in south Madras, in the beginning of ***October.*** During the first week a storm from the Bay crossed the coast near Cocanada, gave heavy rain on the north Madras coast and resulted in a strengthening of the monsoon in northeast India. Widespread and locally heavy rain again occurred in these areas during the third week in connection with a depression which travelled northwards from the central Bay of Bengal. Rainfall occasionally ex-extended into the United Provinces and thundershowers frequently occurred in Burma, Kashmir and south Madras. The northeast monsoon was established in the south of the Bay by the 30th. The month's rainfall was in moderate to large excess in the Bay Islands, northeast India and Kashmir, normal or in slight excess in the United Provinces, the east and north Punjab, the east Central Provinces, the

Konkan, the Bombay Deccan and the Madras Presidency, and was in defect elsewhere. Averaged over the plains of India, the rainfall of the month was in excess by 14 per cent.

During the first fortnight of ***November*** a depression in the south Bay affected the weather over the south of the Peninsula, where the northeast monsoon remained active and some heavy falls of rain occurred. The second fortnight was practically dry over the country, except in south Madras, where some rain fell between the 21st and 24th. The month's rainfall was in very large excess in Sind, in slight to moderate excess in the Bay Islands, the south Deccan and southeast Madras, normal or in slight defect in the Konkan and Malabar and in moderate to large defect elsewhere, the weather being wholly dry in the central parts of the country and in most of north India. Averaged over the plains of India, the rainfall of the month was in defect by 37 per cent.

The month of ***December*** was remarkable for exceptionally wet weather over most of the country. Two of the six western disturbances were unusually active and produced during the second and third weeks extensive rainfall over northern and central India, where the total for the month was generally in very large excess, Bihar, Chota Nagpur and Gujarat recording more than seventeen times the normal amount. In the south of the Peninsula widespread and locally heavy rain fell on the first three days in connection with the passage of a depression from the Bay westwards into the Arabian Sea, and the month's rainfall also was in very large excess in the Konkan, in moderate excess in south Hyderabad and a little more than the normal amount in southeast Madras and the north Madras coast. Averaged over the plains of India, the rainfall of the month was in excess by 111 per cent.

The total rainfall of the period, October to December, was 93 to 316 per cent. in excess in Bengal, Chota Nagpur, Bihar, the west United Provinces, the Punjab, Kashmir, Baluchistan and Sind, in slight to moderate excess in the Bay Islands, Assam, Orissa, the east United Provinces, the North-West Frontier Province, the east Central Provinces and the Konkan, and nearly normal in Gujarat, east Central India, the Bombay Deccan, Mysore, Malabar, southeast Madras and the Madras Deccan. It was in slight defect in the north Madras coast and in moderate to large defect in the remaining sub-divisions.

The mean maximum temperature in October was higher than usual in east Central India and Berar, and lower in the Bay Islands, Chota Nagpur, Bihar, the southwest Punjab, Kashmir and the Madras Deccan; the minimum was above normal in Baluchistan, and below normal in east Central India. In November the maximum was above normal in the United Provinces, east Rajputana, Gujarat, Central India, Berar, the west Central Provinces, the Konkan and north Hyderabad, and below normal in the Madras Deccan; the minimum was above the average in Sind, west Rajputana and Gujarat and below it in Orissa, Chota Nagpur, east Central India and the east Central Provinces. In December the mean maximum temperature was above normal in Burma, Hyderabad and Mysore, and below normal in Chota Nagpur, the United Provinces, west Central India and the whole of northwest India, the deficiency being 8° in Baluchistan and more than 5° in several other sub-divisions of northwest India; the minimum was above normal in Orissa, Berar, the east Central Provinces, Hyderabad, Mysore, the Madras Deccan and the north Madras coast, and below it in west Rajputana.

Skies were considerably more clouded than usual in Sind in November and December, and in Bihar and Orissa, the United Provinces, the North-West Frontier Province, Rajputana and Central India in December.

Humidity was in marked defect in the North-West Frontier Province, Rajputana and the central parts of the country in November.

The total rainfall amounts in each of the 33 subdivisions for each month and for different seasons of the year are shown as percentages of their respective normals in plates A1, A2 and A3. In plates A1 and A2 the mean monthly pressure anomalies are drawn at intervals of 1 millibar.

TABLE A-1.—*Departure of the mean monthly and annual pressure from the normal in the 15 chief political divisions of India in 1929.*

Division.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
Burma	—·019	—·029	+·017	+·025	—·002	—·014	—·023	—·002	+·015	+·013	—·002	—·025	—·004
Assam	—·012	—·002	+·036	+·026	—·009	—·036	—·034	+·006	+·034	+·023	—·005	—·009	+·001
Bengal	—·021	—·003	+·023	+·027	—·013	—·031	—·054	—·001	+·036	+·017	+·001	—·013	—·003
Bihar and Orissa	—·024	+·002	+·018	+·022	—·024	—·033	—·050	+·001	+·044	+·003	—·003	—·015	—·005
United Provinces	—·031	0	+·001	+·017	—·034	—·040	—·038	+·010	+·033	+·001	—·015	—·034	—·011
Punjab	—·031	+·019	—·003	+·012	—·025	—·039	—·020	+·006	+·024	+·007	—·008	—·023	—·007
N. W. F. Province	—·001	+·049	—·003	—·001	—·025	—·055	—·017	+·003	+·012	+·007	—·001	—·019	—·004
Sind	—·002	+·028	—·015	+·011	—·012	—·031	—·030	+·012	+·040	+·015	0	—·015	0
Rajputana	—·019	+·025	+·007	+·026	+·001	—·023	—·029	+·016	+·056	+·013	+·005	—·027	+·005
Bombay	—·011	—·019	—·016	+·012	—·004	—·027	—·028	+·006	+·013	+·008	—·016	—·023	—·009
Central India	—·031	+·005	0	+·024	—·005	—·037	—·035	+·006	+·043	+·001	—·003	—·036	—·006
Central Provinces	—·041	—·005	—·004	+·022	—·016	—·031	—·031	+·001	+·032	—·005	—·008	—·038	—·010
Hyderabad	—·030	—·018	+·003	+·029	—·011	—·024	—·016	+·008	+·014	+·001	+·002	—·029	—·006
Mysore	—·016	—·020	—·001	+·017	+·004	—·005	0	+·013	—·004	—·011	—·006	—·015	—·002
Madras	—·022	—·020	+·004	+·019	—·008	—·008	—·007	+·002	+·004	+·008	—·010	—·024	—·005
Mean of India	—·023	—·004	+·004	+·020	—·012	—·028	—·028	+·004	+·026	+·008	—·005	—·025	—·005

TABLE A-2.

Monthly and annual means of maximum and minimum temperatures with their departures from normal in the 15 chief political divisions of India in 1929.

TABLE A-2.—*Monthly and annual means of maximum and minimum temperatures*

Division.	January				February				March				April				May				June			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
Burma . . .	85·2	+2·0	61·8	+1·6	87·4	+0·4	62·1	—0·7	91·6	—0·4	69·2	+0·5	93·4	—1·3	74·2	0	91·3	—1·0	75·7	—0·3	86·0	—1·8	75·0	—0·7
Assam . .	72·0	—1·5	52·2	+0·8	77·8	+1·7	53·4	—1·3	85·3	+2·7	62·8	+1·5	83·7	—0·5	68·2	+0·8	84·1	—2·5	71·5	—0·6	86·8	—1·4	75·7	—0·2
Bengal . . .	77·6	+0·6	56·2	+2·0	81·3	+0·4	56·4	—1·4	90·6	+1·6	67·1	+0·7	92·0	—1·0	73·7	+0·4	93·3	+1·2	77·3	+1·4	90·4	+1·0	77·9	+0·1
Bihar and Orissa .	76·6	—0·4	54·4	+1·7	80·4	—1·1	55·1	—1·8	93·2	+1·7	65·9	+0·6	98·9	—0·3	75·2	+1·5	103·5	+3·6	80·3	+2·6	95·6	+1·4	79·0	+0·3
United Provinces	72·9	0	47·4	+0·1	76·7	—0·1	48·7	—2·1	92·6	+4·0	61·2	+1·3	100·2	+0·7	72·6	+2·4	107·7	+3·9	79·9	+2·1	100·2	—0·4	81·3	+0·2
Punjab . .	67·4	—0·7	41·6	—0·9	70·1	—1·6	44·9	—1·3	89·4	+6·7	58·2	+2·4	97·4	+2·8	69·8	+3·8	105·9	+2·0	77·5	+2·0	105·8	0	82·7	+1·0
N. W. F. Province .	63·4	—2·5	37·9	—2·0	65·6	—3·2	42·5	—1·1	86·2	+7·9	55·4	+2·1	94·3	+5·2	66·6	+3·9	103·5	+2·3	74·8	+2·5	107·7	+0·5	81·5	+2·1
Sind . . .	74·6	—0·6	49·2	—1·7	77·2	—1·7	53·9	—0·7	93·5	+5·3	66·3	+2·6	98·1	+2·6	75·0	+3·1	103·3	+0·6	79·6	+1·1	102·6	—0·4	83·5	+0·5
Rajputana . .	74·0	—0·8	46·7	—2·2	77·9	—0·9	50·1	—2·4	96·2	+6·3	64·0	+1·5	100·8	+0·9	74·5	+1·5	106·8	+0·6	81·4	+0·3	104·7	+0·6	83·5	+0·3
Bombay . . .	83·6	—0·7	57·0	—1·5	86·2	—0·5	60·9	+0·3	95·9	+3·4	68·9	+1·8	96·5	—0·4	74·8	+1·5	99·2	+1·2	78·5	+1·7	91·8	—0·5	77·1	+0·1
Central India . .	75·9	—0·6	47·7	—0·8	79·1	—1·5	50·0	—1·8	95·3	+4·1	62·0	+1·1	100·5	+0·1	72·1	+1·3	106·8	+2·1	79·4	+1·3	100·4	+1·5	77·2	—2·3
Central Provinces .	81·6	+0·3	53·6	+0·3	82·4	—3·3	55·7	—1·4	97·2	+2·5	65·1	0	100·7	—1·7	73·5	—0·2	108·3	+2·7	81·5	+2·0	97·6	+0·6	77·1	—0·7
Hyderabad . .	87·4	+1·8	61·1	+1·2	86·8	—3·9	65·4	+1·5	98·2	+0·5	70·2	+0·1	100·0	—2·5	75·6	—0·7	106·9	+2·6	81·2	+1·9	94·8	—0·9	75·3	—0·5
Mysore .	85·3	+2·2	61·9	+2·0	88·1	0	65·3	+2·1	93·8	+0·7	67·5	0	93·1	—2·0	70·5	—0·2	92·6	0	70·6	+0·5	84·8	—0·5	68·1	—0·2
Madras	85·4	+0·2	68·8	+1·6	87·2	—1·5	70·8	+1·2	91·7	+1·2	73·7	+0·2	93·5	—2·1	77·6	—0·2	96·8	—0·2	80·4	+1·0	92·7	—1·1	78·1	—0·1

with their departures from normal in the 15 chief political divisions of India in 1929.

July.				August.				September.				October.				November.				December.				Year.			
Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
85·3	—1·4	74·9	—0·6	85·4	—0·9	74·7	—0·6	87·3	+0·1	75·1	0	88·4	+0·8	73·3	—0·4	86·4	+1·1	68·8	0	84·9	+2·5	63·4	+1·0	87·7	0	70·7	0
89·3	+0·8	77·1	—0·2	89·4	+1·0	77·1	—0·3	88·0	+0·1	75·3	—0·9	84·7	—1·0	71·2	0	80·5	—0·2	61·8	+0·2	74·0	—0·7	54·3	+1·5	83·0	—0·1	66·7	+0·1
88·0	—0·2	77·9	—0·5	88·1	+0·4	77·7	—0·5	89·1	+0·9	77·2	—0·5	87·5	0	73·2	—0·6	84·1	+1·3	63·9	—0·5	76·8	—0·5	55·9	+0·3	86·6	+0·5	69·6	+0·1
87·9	—1·4	77·3	—0·7	87·5	—0·7	77·1	—0·6	90·2	+1·4	76·8	—0·2	85·8	—2·3	70·5	—1·0	83·7	+1·2	59·3	—1·7	75·6	—1·3	54·2	+1·7	88·2	+0·1	6898	+0·2
92·3	0	78·7	—0·4	88·2	—1·6	76·7	—1·2	94·7	+3·7	75·4	—0·3	90·0	—0·4	65·8	—0·5	84·7	+2·2	53·2	—1·5	71·1	—3·2	47·5	+0·2	89·2	+0·7	65·7	0
97·8	—2·0	80·3	—0·9	94·4	—2·4	78·9	—0·7	98·5	+2·0	75·7	+0·9	91·7	—1·5	63·5	+0·8	83·2	+1·0	50·8	+0·4	66·2	—5·2	43·3	+0·7	89·0	+0·1	64·0	+0·7
99·1	—4·4	79·7	—1·4	95·0	—5·1	78·3	—1·4	99·0	+1·3	74·3	+1·3	89·3	—1·7	59·7	0	81·4	+1·9	46·8	—0·3	63·4	—5 7	39·5	—0·3	87·3	—0·3	61·5	+0·5
96·1	—2·7	82·3	0	91·3	—4·0	78·9	—0·9	93·6	—1·9	75·4	—1·0	93·4	—1·4	70·9	+1·8	87·2	+0·2	62·0	+2·8	72·8	—4·9	51·4	—0·4	90·4	—0·7	69·0	+0·6
93·8	—2·2	78·3	—1·8	89·9	—2·2	76·8	—1·1	95·6	+1·6	74·1	—1·7	94·8	+0·1	67·2	—0·7	88·5	+2·3	57·9	+0·9	73·0	—4·4	48·4	—1·6	91·3	+0·1	66·9	—0·6
86·6	—0·3	75·8	+0·4	86·2	+0·1	73·6	—0·5	89·0	+1·8	73·0	—0·1	90·8	+0·1	70·4	—0·1	90·8	+2·4	65·7	+1·3	83·6	—1·3	58·9	—0·2	90·0	+0·4	69·6	+0·4
88·9	+0·8	73·9	—2·0	84·4	—1·0	73·4	—0·9	91·9	+4·1	71·7	—1·0	91·4	+1·9	62·9	—1·9	87·2	+4·2	53·4	—0·9	75·7	—1·4	47·7	—0·4	89·8	+1·2	64·3	—0·7
86·1	—0·8	73·8	—0·5	85·2	+0·1	73·0	—0·4	89·2	+1·8	72·3	—0·3	89·7	+0·7	65·7	—1·0	86·0	+1·9	56·4	—1·7	80·2	+0·1	53·9	+1·9	90·3	+0·4	66·8	—0·2
89·4	+0·7	73·3	+0·1	89·5	+2·3	72·3	0	88·8	+1·0	72·5	+0·4	89·6	—0·3	68·5	—1·1	88·4	+2·1	62·3	—1·1	86·2	+2·3	61·9	+3·4	92·2	+0·5	69·9	+0·4
83·6	+1·3	67·6	+0·4	85·1	+2·6	67·2	+0·3	85·7	+2·2	67·5	+0·9	84·2	+0·4	67·2	+0·6	82·5	+0·8	64·2	+0·5	83·2	+2·3	62·3	+2·3	86·8	+0·8	66·7	+0·8
91·2	+0·1	77·5	+0·7	90·4	0	76·4	+0·2	89·9	—0·2	76·1	+0·3	87·8	—0·9	74·6	+0·2	85·2	—0·5	71·4	+0·1	84·5	+0·3	69·4	+1·8	89·7	—0·6	74·6	+0·6

TABLE A·3.—*Monthly and annual means of maximum and minimum temperatures*

Sub-Division.	January.				February.				March.				April.				May.				June.			
	Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
1. Bay Islands	85·6	—0·5	76·2	+0·6	85·0	—2·6	74·6	—0·4	87·3	—3·0	77·5	+1·2	89·7	—2·5	78·6	—0·1	87·3	—1·4	77·9	—0·5	85·2	—0·6	77·0	—0·8
2. Lower Burma	87·9	+2·5	67·0	+2·0	89·1	+0·9	67·6	+0·5	90·7	—0·8	72·2	+0·5	92·8	—0·6	76·1	+0·1	90·2	+0·1	76·6	—0·1	84·6	—1·3	74·6	—1·2
3. Upper Burma	81·3	+1·3	54·4	+1·2	85·0	—0·2	54·5	—2·2	92·9	+0·2	64·8	+0·5	94·5	—2·2	71·4	—0·1	92·8	—2·5	74·3	—0·6	88·1	—2·5	75·6	—0·1
4. Assam	72·0	—1·5	52·2	+0·8	77·8	+1·7	53·4	—1·3	85·3	+2·7	62·8	+1·5	83·7	—0·5	68·2	+0·8	84·1	—2·5	71·5	—0·6	86·8	—1·4	75·7	—0·2
5. Bengal	77·6	+0·6	56·2	+2·0	81·3	+0·4	56·4	—1·4	90·6	+1·6	67·1	+0·7	92·0	—1·0	73·7	+0·4	93·3	+1·2	77·3	+1·4	90·4	+1·0	77·9	+0·1
6. Orissa	82·8	+0·8	59·1	+2·0	84·5	—2·2	60·4	—1·8	95·9	+1·0	69·7	+0·1	100·4	0	78·0	+1·8	104·3	+2·9	82·6	+2·9	96·6	+1·6	79·6	—0·1
7. Chota-Nagpur	74·9	—1·6	53·8	+2·1	77·8	—2·9	54·7	—1·4	91·5	+1·1	65·1	+0·7	98·9	—0·1	74·5	+1·6	105·3	+4·6	80·0	+3·3	94·3	+1·8	77·4	+0·9
8. Bihar	73·6	—0·7	51·9	+1·4	79·0	+0·2	52·1	—2·0	92·4	+2·4	64·1	+0·9	98·0	—0·6	73·7	+1·2	102·3	+3·6	79·1	+2·2	95·5	+1·1	79·2	+0·3
9. United Provinces, East.	73·4	—0·2	48·5	+0·8	78·1	—0·2	49·8	—1·6	93·5	+3·3	62·1	+1·4	101·6	+0·7	74·4	+3·3	108·3	+4·2	80·8	+2·7	99·2	—1·0	81·5	+0·2
10. United Provinces, West.	72·3	+0·2	46·4	—0·8	75·2	—0·1	47·6	—2·5	91·7	+4·7	60·4	+1·3	98·8	+0·7	71·0	+1·6	107·1	+3·5	79·0	+1·6	101·1	+0·1	81·1	+0·2
11. Punjab, East and North.	67·2	—0·4	42·3	—0·6	70·2	—1·2	45·0	—1·4	89·1	+6·5	57·9	+2·1	97·1	+2·4	69·2	+3·3	105·6	+2·3	77·2	+2·2	104·8	0	81·5	+0·7
12. Punjab, South-west.	67·8	—1·1	40·2	—1·5	70·1	—2·2	44·4	—1·3	90·0	+7·1	58·7	+2·8	97·9	+3·5	70·9	+4·7	106·5	+1·6	78·2	+1·7	107·4	—0·2	84·8	+1·5
13. Kashmir	32·9	—0·9	15·9	+1·5	35·7	—2·0	14·8	—1·8	53·9	+5·3	28·1	+0·5	64·5	+4·9	40·2	+2·2	71·2	+0·1	45·6	—0·8	78·3	+0·1	52·0	—0·2
14. N.W. F. Province.	63·4	—2·5	37·9	—2·0	65·6	—3·2	42·5	—1·1	86·2	+7·9	55·4	+2·1	94·3	+5·2	66·6	+3·9	103·5	+2·3	74·8	+2·5	107·7	+0·5	81·5	+2·1
15. Baluchistan	59·2	—1·1	33·2	—2·1	61·1	—1·1	40·0	+2·6	80·9	+9·7	50·7	+5·3	87·0	+6·1	58·8	+5·3	92·7	+0·7	64·8	+2·8	99·5	+1·5	70·2	+2·0
16. Sind	74·6	—0·6	49·2	—1·7	77·2	—1·7	53·9	—0·7	93·5	+5·3	66·3	+2·6	98·1	+2·6	75·0	+3·1	103·3	+0·6	79·6	+1·1	102·6	—0·4	83·5	+0·5
17. Rajputana, West	74·0	—0·5	47·4	—1·9	78·2	—0·3	51·3	—1·4	96·6	+6·8	65·6	+2·7	101·1	+1·0	75·6	+2·3	107·4	+0·7	82·0	+0·9	106·0	+0·5	84·2	+0·5
18. Rajputana, East	74·0	—1·0	46·3	—2·4	77·8	—1·3	49·3	—3·0	95·9	+5·9	62·9	+0·7	100·6	+0·8	73·8	+0·9	106·4	+0·5	81·0	—0·1	103·7	+0·6	83·0	+0·1
19. Gujarat	81·0	—1·8	53·3	—2·5	85·4	+0·3	57·3	—0·9	97·6	+5·3	67·6	+1·9	98·6	+0·9	75·0	+2·3	101·2	+1·5	79·9	+1·9	96·3	+0·2	81·0	+0·7
20. Central India, West.	76·3	—2·2	47·0	—2·5	79·4	—2·5	51·3	—0·7	94·6	+3·1	62·3	+1·5	98·6	—1·1	71·7	+1·3	103·8	+0·5	78·0	+1·3	96·8	—0·1	76·1	—0·5
21. Central India, East.	75·6	+1·1	48·4	+0·8	78·6	—0·7	48·7	—2·9	96·0	+5·1	61·8	+0·9	102·3	+1·2	72·6	+1·3	109·8	+3·7	81·0	+1·3	104·1	+3·1	78·2	—4·1
22. Berar	85·6	+0·3	57·2	+0·8	86·2	—3·8	60·4	+0·7	100·9	+2·7	69·0	+1·5	103·8	—1·3	76·2	+0·7	110·3	+2·6	83·1	+2·4	98·0	—0·3	77·2	—0·5
23. Central Provinces, West.	79·9	—0·3	51·7	—0·4	81·6	—2·9	54·0	—1·6	97·0	+2·9	63·7	—0·2	100·6	—1·7	72·8	—0·2	108·1	+2·1	80·6	+1·2	98·7	+0·8	77·4	—0·8
24. Central Provinces, East.	82·2	+1·2	54·5	+1·0	82·0	—3·5	56·3	—1·7	95·7	+1·7	65·3	—0·3	99·2	—1·9	73·2	—0·7	107·6	+3·5	81·9	+2·9	95·7	+0·7	76·5	—0·6
25. Konkan	85·2	—0·1	67·4	—0·2	84·8	—0·1	69·2	+0·8	89·3	+2·5	75·6	+2·6	90·7	+1·5	79·3	+1·7	91·3	+0·9	81·7	+1·4	85·2	—1·4	75·9	—1·8
26. Bombay, Deccan	86·0	+0·5	55·3	—0·8	88·4	—1·8	60·3	+1·6	97·9	+1·3	66·6	+1·4	97·7	—3·2	71·5	+0·4	101·8	+1·1	74·6	+1·6	89·8	—1·1	72·4	+0·2
27. Hyderabad, North.	85·8	+0·5	57·8	+1·5	85·5	—4·3	62·7	+2·5	98·3	+1·2	69·0	+1·9	99·9	—2·8	74·2	—0·5	106·6	+1·7	80·4	+2·3	94·0	—1·6	74·4	—0·5
28. Hyderabad, South.	88·2	+2·4	62·8	+1·1	87·4	—3·7	66·8	+1·0	98·1	+0·2	70·9	—0·7	99·9	—2·4	76·3	—0·9	107·0	+3·1	81·6	+1·7	95·2	—0·5	75·6	—0·6
29. Mysore	85·3	+2·2	61·9	+2·0	88·1	0	65·3	+2·1	93·8	+0·7	67·5	0	93·1	—2·0	70·5	—0·2	92·6	0	70·6	+0·5	84·8	—0·5	68·1	—0·2
30. Malabar	86·9	—0·6	71·9	+0·8	87·3	—0·8	74·4	+1·2	89·9	+0·3	76·6	+0·4	89·2	—1·3	76·9	—1·4	89·6	+0·2	78·6	+0·5	83·2	—1·8	74·2	—0·8
31. Madras, South-east.	85·3	+0·2	69·6	+1·2	87·9	—1·1	70·9	+1·6	91·7	—1·7	73·4	+0·7	93·1	—3·3	77·0	—0·2	97·6	—0·6	79·8	+1·1	94·6	—1·4	78·1	+0·1
32. Madras, Deccan.	89·3	+1·0	65·0	+2·5	91·4	—2·8	69·5	+2·6	98·9	—1·8	72·1	—0·8	100·6	—3·7	78·3	—0·6	103·9	—0·4	81·2	+0·7	95·7	—1·6	78·0	+0·1
36. Madras Coast, North.	82·6	+0·4	67·5	+2·2	84·2	—1·9	69·0	0	89·3	—1·2	73·0	—0·2	93·4	—0·1	78·7	+0·9	97·0	+0·3	82·2	+1·3	94·7	—0·1	80·6	—0·1

with their departures from normal in the 33 sub-divisions of India in 1929.

July.				August.				September.				October.				November.				December.				Year.			
Maximum		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.		Maximum.		Minimum.	
Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.	Actual.	Departure.
85·5	+0·1	78·7	+1·2	84·7	−0·5	76·6	−0·6	85·6	+0·7	77·3	+0·7	84·4	−2·0	75·6	−1·3	85·5	−1·1	77·3	+0·2	85·4	−0·2	76·9	+0·4	86·0	−1·1	77·1	+0·1
83·5	−1·1	74·2	−1·0	83·4	−1·0	74·3	−0·9	86·3	+0·9	75·3	0	87·6	+0·5	74·4	−0·7	88·1	+1·7	72·2	+0·1	87·2	+2·6	68·2	+1·1	88·0	+0·7	72·7	0
88·0	−1·7	75·8	0	88·2	−0·8	75·3	−0·2	88·8	−0·9	74·7	0	89·6	+1·2	71·9	+0·1	84·0	+0·3	64·1	0	81·6	+2·4	56·5	+0·9	87·8	−0·5	67·8	0
89·3	+0·8	77·1	−0·2	89·4	+1·0	77·1	−0·3	88·0	+0·1	75·3	−0·9	84·7	−1·0	71·2	0	80·5	−0·2	61·8	+0·2	74·0	−0·7	54·3	+1·5	83·0	−0·1	66·7	+0·1
88·0	−0·2	77·9	−0·5	88·1	+0·4	77·7	−0·5	89·1	+0·9	77·2	−0·5	87·5	0	73·2	−0·6	84·1	+1·3	63·9	−0·5	76·8	−0·5	55·9	+0·3	86·6	+0·5	69·6	+0·1
86·5	−2·5	76·8	−1·3	87·0	−1·2	77·1	−0·8	89·7	+0·4	77·3	−0·3	87·3	−1·8	72·2	−1·0	85·4	+1·1	61·4	−2·3	80·4	+0·2	58·5	+2·6	90·0	0	71·0	+0·1
85·0	−2·5	74·8	−0·7	84·2	−1·9	74·1	−0·9	87·6	+0·9	73·8	−0·1	84·1	−2·1	67·4	−1·1	80·7	+0·2	56·1	−2·9	73·4	−2·1	52·3	+1·5	86·5	−0·4	67·0	+0·3
90·1	−0·1	78·8	−0·2	89·1	0	78·2	−0·4	91·6	+2·2	77·6	−0·2	85·4	−2·8	70·7	−1·0	83·8	+1·6	59·2	−0·9	73·6	−1·8	52·5	+1·3	87·8	+0·4	68·1	+0·2
91·9	−0·5	79·2	−0·3	88·4	−1·7	77·4	−1·1	94·9	+3·6	77·0	+0·2	89·4	−1·3	67·5	−0·1	85·5	+2·4	54·2	−1·3	72·5	−2·6	48·4	+0·7	89·7	+0·5	66·7	+0·4
92·5	+0·4	78·3	−0·4	88·1	−1·5	75·9	−1·4	94·6	+3·9	73·9	−0·7	90·6	+0·5	64·2	−0·	83·9	+2·1	52·3	−1·7	69·8	−3·8	46·5	−0·4	88·7	+0·9	64·7	−0·3
96·8	−1·0	79·6	−0·4	93·2	−1·7	78·1	−0·5	98·0	+3·0	75·3	+1·2	91·2	−1·1	63·2	+0·6	82·7	+1·2	50·0	−0·1	65·9	−5·2	43·4	+0·6	88·5	+0·4	63·6	+0·7
99·6	−3·7	81·5	−1·7	96·4	−3·7	80·4	−0·9	99·4	+0·3	76·5	+0·5	92·6	−2·1	64·1	+0·7	84·0	+0·7	52·2	+1·3	66·6	−5·2	43·0	+0·8	89·9	−0·4	64·6	+0·7
81·3	−1·0	58·4	+0·6	79·3	−2·4	58·2	+0·5	74·5	−0·2	48·5	−0·9	59·7	−5·8	38·9	+0·3	51·4	−1·8	28·0	+0·7	34·6	−5·1	17·1	−1·8	59·8	−0·7	37·2	+0·1
99·1	−4·4	79·7	−1·4	95·0	−5·1	78·3	−1·4	99·0	+1·3	74·3	+1·3	89·3	−1·7	59·7	0	81·4	+1·9	46·8	−0·3	63·4	−5·7	39·5	−0·3	87·3	−0·3	61·5	+0·5
95·5	−3·4	72·7	+1·3	92·9	−3·2	67·7	−0·6	92·5	+1·4	61·1	+1·5	81·1	−1·6	51·3	+2·0	71·6	−0·6	41·6	+0·9	54·0	−8·1	34·2	−0·6	80·6	0	53·9	+1·7
96·1	−2·7	82·3	0	91·3	−4·0	78·9	−0·9	93·6	−1·9	75·4	−1·0	93·4	−1·4	70·9	+1·8	87·2	+0·2	62·0	+2·8	72·8	−4·9	51·4	−0·4	90·4	−0·7	69·0	+0·6
97·0	−2·5	79·8	−1·8	92·8	−2·7	77·8	−1·4	97·7	+1·2	75·2	−1·9	95·2	−1·1	68·7	−0·8	88·6	+1·5	60·5	+2·0	72·2	−5·2	48·6	−2·3	92·2	−0·1	68·0	−0·3
91·8	−1·9	77·3	−1·8	88·0	−1·9	76·0	−1·0	94·2	+1·9	73·4	−1·6	94·5	+0·8	66·3	−0·6	88·4	+2·8	56·2	+0·2	73·4	−3·9	48·1	−1·2	90·8	+0·3	66·1	−0·8
89·6	−0·4	79·2	+0·7	87·8	−1·1	76·1	−0·6	92·0	+1·9	75·0	−0·3	94·2	+0·2	71·4	+0·3	93·6	+3·1	66·1	+2·4	80·8	−3·8	55·5	−1·6	91·7	+0·5	69·8	+0·4
85·6	−1·1	73·4	−0·3	82·5	−1·3	71·5	−0·6	88·8	+2·1	69·8	−0·	90·8	+0·9	62·2	−1·9	87·1	+2·8	56·2	+1·3	76·7	−2·5	48·2	−1·3	83·4	−0·1	63·9	−0·3
92·3	+2·7	74·4	−3·7	86·2	−0·7	75·3	−1·3	95·2	+6·3	73·5	−1·3	92·8	+3·7	63·6	−2·0	87·3	+5·6	50·6	−3·1	74·8	−0·3	47·3	+0·5	91·3	+2·6	64·6	−1·1
88·8	+0·1	75·0	+0·7	89·6	+2·9	74·2	+1·1	90·4	+1·5	73·4	+0·9	93·8	+2·1	67·4	−0·2	91·0	+3·5	60·9	+0·7	84·3	+0·6	57·4	+2·5	93·6	+0·9	69·2	+0·9
86·3	−0·6	73·7	−0·9	84·2	−0·5	72·6	−0·9	89·6	+2·3	71·6	−0·8	90·5	+1·3	65·0	−1·0	86·6	+2·7	55·6	−1·1	79·1	−0·3	51·9	+0·8	90·2	+0·5	65·9	−0·5
84·4	−1·7	73·3	−0·7	84·4	−0·3	73·0	−0·5	87·7	+1·0	73·0	0	86·4	−0·8	66·2	−1·3	82·7	+0·1	55·3	−3·7	79·6	+0·5	55·0	+3·1	88·9	0	67·0	−0·2
84·0	+0·1	76·2	−0·1	84·1	+0·6	75·3	−0·5	84·4	+0·6	74·9	−0·3	86·9	+0·2	74·9	−0·2	90·0	+2·1	73·0	+1·1	86·4	−0·2	68·7	+0·1	86·8	+0·5	74·4	+0·4
84·5	−0·3	71·2	+0·4	85·6	+1·4	69·1	−0·5	88·0	+2·3	69·2	+0·4	88·8	0	66·1	−0·7	87·8	+1·7	60·1	−0·2	85·5	+1·4	57·0	+1·5	90·2	+0·3	66·1	+0·4
87·6	−0·1	72·6	+0·3	86·8	+1·1	70·9	−0·2	87·7	+0·6	71·3	+0·5	90·0	+0·1	66·8	−0·7	89·0	+2·7	59·5	−0·7	85·6	+1·9	58·6	+3·9	91·4	+0·1	68·2	+0·9
90·3	+1·1	73·7	+0·1	90·9	+3·0	73·0	+0·1	89·3	+1·2	73·1	+0·3	89·4	−0·5	69·3	−1·3	88·1	+1·8	63·7	−1·2	86·5	+2·4	63·4	+3·1	92·6	+0·7	70·8	+0·2
83·6	+1·3	67·6	+0·4	85·1	+2·6	67·2	+0·3	85·7	+2·2	67·5	+0·9	84·2	+0·4	67·2	+0·6	82·5	+0·8	64·2	+0·5	83·2	+2·3	62·3	+2·3	86·8	+0·8	66·7	+0·8
82·8	−0·3	74·7	+0·4	83·0	−0·1	74·3	−0·1	84·2	+0·1	74·6	+0·1	85·0	−0·3	74·8	+0·1	87·2	+1·1	75·0	+1·1	87·5	+0·6	73·4	+1·6	86·3	−0·2	74·9	+0·3
94·0	0	77·8	+1·0	92·9	−0·2	76·5	+0·5	92·0	−0·2	75·9	+0·5	89·2	−0·1	74·8	+0·6	84·8	−1·0	72·3	+0·4	84·1	+0·2	70·3	+1·2	90·6	−0·8	74·6	+0·7
92·9	−0·1	76·7	+0·7	92·9	+0·9	75·7	+0·7	91·8	+0·4	74·8	+0·5	88·7	−2·5	72·6	+0·3	85·8	−2·2	67·3	+0·2	86·5	+0·1	65·5	+3·2	93·2	−1·1	73·0	+0·2
91·9	+0·7	79·2	+0·3	90·4	−0·1	78·4	−0·1	89·6	−0·8	78·4	+0·3	87·0	−1·8	75·3	−0·7	84·2	−0·1	69·5	−1·2	81·8	+0·3	67·7	+2·4	88·8	−0·4	74·9	+0·4

TABLE A-4.—*Departure of the mean monthly and annual aqueous vapour pressure from the normal in the 15 chief political divisions of India in 1929.*

DIVISION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
Burma	+·027	—·016	+·003	+·019	+·008	—·007	—·012	—·017	—·004	—·018	—·006	+·024	0
Assam	+·007	—·027	+·028	+·025	+·004	—·001	—·007	—·016	—·019	—·008	—·002	+·014	0
Bengal	+·032	—·044	+·019	+·023	+·038	—·004	—·012	—·013	—·011	—·008	—·013	+·018	+·002
Bihar and Orissa	+·036	—·028	+·036	+·041	+·049	—·021	—·012	—·010	+·001	+·003	—·022	+·046	+·010
United Provinces	—·003	—·044	—·015	+·009	—·090	0	—·006	—·021	—·041	—·016	—·057	+·007	—·023
Punjab	—·009	—·019	—·030	—·009	—·096	—·004	—·002	—·003	—·029	—·012	—·028	+·023	—·018
N. W. F. Province	—·017	—·005	+·002	—·005	—·147	—·089	—·051	—·041	+·009	+·007	—·043	+·020	—·030
Sind	—·027	—·024	0	+·070	—·004	+·023	+·021	—·007	—·007	+·046	+·016	+·005	+·009
Rajputana	—·001	—·033	—·051	+·005	—·080	—·011	+·005	—·026	—·077	—·034	—·027	+·006	—·027
Bombay	—·023	—·016	+·001	+·032	+·015	+·007	0	—·026	—·014	—·021	—·048	—·022	—·010
Central India	+·006	—·023	—·038	+·081	—·027	+·039	—·013	—·037	—·041	—·030	—·072	—·006	—·013
Central Provinces	+·025	+·020	—·037	+·019	—·022	+·021	—·012	—·032	+·003	—·016	—·068	+·025	—·006
Hyderabad	+·010	+·058	—·007	+·011	—·029	+·022	—·007	—·033	+·018	—·024	—·055	+·031	0
Mysore	—·004	+·049	—·011	+·018	+·015	—·004	+·001	—·016	+·010	+·002	+·013	+·040	+·009
Madras	+·027	—·001	—·011	—·009	+·020	—·015	—·021	—·021	—·005	—·002	—·008	+·051	0
Mean of India	+·009	—·013	—·009	+·019	—·019	—·001	—·008	—·021	—·016	—·013	—·029	+·019	—·007

TABLE A-5.—*Departure of the mean monthly and annual relative humidity from the normal in the 15 chief political divisions of India in 1929.*

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

TABLE A-6.—*Departure of the mean monthly and annual cloud amount from the normal in the 15 chief political divisions of India in 1929.*

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

TABLE A-7.—*Average over the 15 chief political divisions of the*

Division.	January.			February.			March.			April.			May.			June.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Burma	0·12	+0·01	+9	0·18	—0·04	—18	0·48	+0·01	+2	1·92	+0·61	+47	9·47	+0·69	+8	20·58	+4·64	+29
Assam	2·76	+2·09	+312	0·18	—1·35	—88	2·88	—1·12	—28	12·64	+3·63	+40	23·03	+11·02	+92	26·42	+8·21	+45
Bengal	1·59	+1·25	+368	0·25	—0·70	—74	1·31	—0·37	—22	4·15	+0·82	+25	5·29	—2·39	—31	13·52	—1·07	—7
Bihar and Orissa	1·79	+1·28	+251	0·36	—0·56	—61	0·49	—0·23	—32	0·62	—0·19	—23	1·22	—1·26	—51	6·35	—2·16	—25
United Provinces	1·38	+0·60	+77	0·05	—0·67	—93	0·23	—0·24	—51	0·17	—0·08	—32	0·11	—0·57	—84	4·41	+0·02	0
Punjab	0·51	—0·52	—50	0·11	—0·78	—88	0·04	—0·79	—95	0·36	—0·18	—33	0·12	—0·45	—79	1·29	—0·44	—25
North-West Frontier Province.	0·67	—0·61	—48	0·60	—0·59	—50	0·53	—1·45	—73	0·48	—1·06	—69	0·28	—0·49	—64	0·50	—0·36	—42
Sind	0·09	—0·14	—61	0·07	—0·22	—76	0	—0·23	—100	0·08	—0·03	—27	0·01	—0·14	—93	0·02	—0·45	—96
Rajputana	0·14	—0·16	—53	0·05	—0·22	—81	0	—0·21	—100	0·15	—0·01	—6	0·35	—0·15	—30	1·27	—0·97	—43
Bombay	0·07	—0·05	—42	0·12	+0·04	+50	0·04	—0·07	—64	1·18	+0·79	+203	0·54	—0·52	—49	9·68	+0·89	+10
Central India	0·60	+0·14	+30	0·35	—0·03	—8	0	—0·22	—100	0·20	+0·03	+18	0·05	—0·41	—89	3·70	—1·18	—24
Central Provinces	0·48	—0·03	—6	1·31	+0·51	+64	0·02	—0·51	—96	0·40	—0·07	—15	0·04	—0·63	—94	6·68	—1·23	—16
Hyderabad	0·03	—0·14	—82	2·01	+1·76	+704	0·02	—0·37	—95	0·96	+0·31	+48	0·25	—0·62	—71	5·52	+0·57	+12
Mysore	0·18	+0·06	+50	0·59	+0·46	+354	0·06	—0·25	—81	5·14	+3·68	+252	4·11	+0·53	+15	4·97	+0·17	+4
Madras	0·62	—0·12	—16	1·11	+0·67	+152	0·68	—0·03	—4	3·71	+1·95	+111	2·47	—1·05	—30	10·47	+2·53	+32
Mean of India	0·65	+0·19	+41	0·47	—0·07	—13	0·39	—0·31	—44	1·77	+0·56	+46	3·12	—0·03	—1	8·82	+0·86	+11

monthly and annual rainfall, with its departure from normal in 1929.

July			August.			September.			October.			November.			December			Year.		
Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal	Percentage departure from normal.
"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
22·51	+5·16	+30	17·03	+0·07	0	10·49	—1·74	—14	5·24	—1·26	—19	0·83	—1·38	—62	0·16	—0·33	—67	89·01	+6·44	+8
14·69	—4·06	—22	13·82	—3·00	—18	12·07	—0·46	—4	7·09	+1·42	+25	0·62	—0·30	—33	0·98	+0·63	+180	117·18	+16·71	+17
15·46	+0·43	+3	11·50	—2·81	—20	10·21	—0·65	—6	10·77	+5·73	+114	0·06	—0·73	—92	0·73	+0·57	+356	74·84	+0·08	0
16·06	+3·48	+28	14·43	+1·51	+12	5·43	—3·18	—37	9·02	+5·96	+195	0	—0·60	—100	1·62	+1·49	+1146	57·39	+5·54	+11
9·90	—1·60	—14	12·29	+1·09	+10	1·66	—4·74	—74	1·34	0	0	0·01	—0·16	—94	1·68	+1·39	+479	33·23	—4·96	—13
6·04	+0·72	+14	5·45	+0·02	0	0·33	—2·45	—88	0·34	+0·03	+10	0	—0·12	—100	1·76	+1·38	+363	16·35	—3·58	—18
6·36	+3·78	+147	6·35	+3·19	+101	0·26	—0·92	—78	0·21	—0·12	—36	0	—0·28	—100	1·28	+0·74	+137	17·52	+1·83	+12
8·80	+6·31	+253	5·22	+3·31	+173	0	—0·62	—100	0·01	—0·04	—80	0·22	+0·16	+267	0·45	+0·36	+400	14·97	+8·27	+123
8·61	+1·85	+27	6·16	—0·66	—10	0·98	—2·34	—70	0·03	—0·42	—93	0	—0·13	—100	0·30	+0·13	+76	18·04	—3·29	—15
13·08	—1·85	—12	6·25	—3·35	—35	5·04	—1·49	—23	2·90	+0·33	+13	0·34	—0·41	—55	0·34	+0·16	+89	39·58	—5·53	—12
12·74	+1·58	+14	10·21	—1·45	—12	2·40	—3·20	—57	0·13	—0·83	—86	0	—0·42	—100	0·60	+0·40	+200	30·98	—5·59	—15
15·89	+2·61	+20	11·30	—1·14	—9	6·56	—0·64	—9	1·52	—0·43	—22	0	—0·49	—100	1·27	+0·95	+297	45·47	—1·10	—2
3·42	—3·75	—52	3·43	—3·36	—49	7·40	—0·09	—1	1·61	—1·03	—39	0·01	—0·90	—99	0·22	—0·07	—24	24·88	—7·69	—24
6·31	—0·84	—12	3·18	—2·05	—39	7·10	+1·92	+37	4·09	—1·21	—23	3·27	+0·85	+35	0·24	—0·21	—47	39·24	+3·11	+9
8·10	—0·21	—3	5·29	—1·38	—21	6·78	+0·75	+12	8·11	+0·37	+5	5·78	—0·23	—4	2·44	+0·35	+17	55·56	+3·60	+7
12·49	+1·18	+10	9·65	—0·75	—7	5·50	—1·56	—22	3·74	+0·47	+14	0·81	—0·48	—37	0·97	+0·51	+111	48·38	+0·57	+1

TABLE A-8.—*Average over the 33 sub-divisions of the monthly annual*

Sub-Division.	January.					February.					March.				
	Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	2·3	+1·2	1·38	+0·51	+59	1·7	+0·8	1·75	+1·20	+218	4·3	+3·5	2·62	+2·06	+368
2. Lower Burma	0·2	—0·1	0·08	—0·04	—33	0·6	+0·3	0·32	+0·10	+45	1·1	+0·4	0·66	+0·13	+25
3. Upper Burma	0·4	+0·1	0·15	+0·05	+50	0·2	—0·4	0·07	—0·15	—68	0·8	—0·2	0·33	—0·09	—21
4. Assam	5·1	+3·5	2·76	+2·09	+312	0·6	—2·8	0·18	—1·35	—88	5·6	—0·8	2·88	—1·12	—28
5. Bengal	2·5	+1·8	1·59	+1·25	+368	0·6	—1·0	0·25	—0·70	—74	1·6	—0·9	1·31	—0·37	—22
6. Orissa	1·4	+0·6	0·80	+0·34	+74	1·7	—0·1	0·77	—0·39	—34	0·5	—1·4	0·41	—0·66	—62
7. Chota Nagpur	4·6	+3·2	2·47	+1·72	+229	1·5	—0·6	0·64	—0·51	—44	1·3	—0·6	0·47	—0·44	—48
8. Bihar	3·3	+2·4	1·96	+1·53	+356	0·1	—1·4	0·05	—0·65	—93	1·1	+0·1	0·54	+0·07	+15
9. United Provinces, East	2·8	+1·4	1·71	+1·08	+171	0·2	—1·1	0·07	—0·48	—87	0·4	—0·4	0·38	+0·06	+19
10. Do. do., West	2·0	+0.2	1·09	+0·18	+20	0·1	—1·5	0·04	—0·83	—95	0·2	—1·1	0·10	—0·50	—83
11. Punjab, East and North	1·7	—0·5	0·58	—0·62	—52	0·4	—1·6	0·10	—0·91	—90	0·1	—1·8	0·03	—0·87	—97
12. Do., Southwest	1·1	—0·1	0·30	—0·20	—40	0·6	—0·7	0·15	—0·38	—72	0·3	—1·3	0·07	—0·57	—89
13. Kashmir	5·4	+0·3	3·79	+0·08	+ 2	4·0	—1·0	2·01	—1·53	—43	2·6	—3·8	1·13	—3·47	—75
14. North-West Frontier Province	2·0	—0·4	0·67	—0·61	—48	2·1	—0·5	0·60	—0·59	—50	1·6	—2·1	0·53	—1·45	—73
15. Baluchistan	1·2	—1·4	0·54	—0·66	—55	3·4	+0·9	1·53	+0·33	+27	0·2	—2·7	0·05	—1·20	—96
16. Sind	0·4	—0·2	0·09	—0·14	—61	0·2	—0·5	0·07	—0·22	—76	0	—0·5	0	—0·23	—100
17. Rajputana, West	0·3	—0·2	0·09	—0·10	—53	0	—0·5	0	—0·23	—100	0	—0·5	0	—0·18	—100
18. Do., East.	0·6	—0·3	0·17	—0·20	—54	0·3	—0·4	0·08	—0·22	—73	0	—0·6	0	—0·23	—100
19. Gujarat	0·3	+0·1	0·07	—0·02	—22	0	—0·2	0	—0·10	—100	0	—0·2	0	—0·07	—100
20. Central India, West	0·6	—0·2	0·34	—0·06	—15	0·7	0	0·32	+0·03	+10	0	—0·4	0	—0·17	—100
21. Do. do., East	2·1	+0·7	1·48	+0·81	+121	1·3	—0·2	0·45	—0·22	—33	0	—0·9	0	—0·39	—100
22. Berar	0·5	—0·2	0·17	—0·22	—56	3·7	+3·0	2·03	+1·67	+464	0·2	—0·5	0·05	—0·28	—85
23. Central Provinces, West	1·4	+0·3	0·64	—0·01	—2	2·4	+1·1	0·97	+0·28	+41	0	—1·2	0·01	—0·55	—98
24. Do. do., East.	1·2	+0·3	0·51	+0·05	+11	2·6	+0·8	1·18	+0·07	+6	0·1	—1·2	0·02	—0·58	—97
25. Konkan	0·1	—0·1	0·05	—0·05	—50	0	—0·1	0	—0·05	—100	0·1	0	0·07	+0·01	+17
26. Bombay Deccan	0·2	—0·1	0·07	—0·08	—53	0·6	+0·4	0·23	+0·15	+187	0·2	—0·1	0·06	—0·09	—60
27. Hyderabad, North	0	—0·3	0	—0·16	—100	3·8	+3·3	1·90	+1·64	+631	0·2	—0·5	0·03	—0·34	—92
28. Do., South	0·1	—0·2	0·06	—0·12	—67	4·0	+3·5	2·16	+1·92	+800	0	—0·7	0·01	—0·41	—98
29. Mysore	0·6	+0·4	0·18	+0·06	+50	1·2	+1·0	0·59	+0·46	+354	0·1	—0·5	0·06	—0·25	—81
30. Malabar	1·0	—0·2	0·76	—0·12	—14	2·0	+1·1	1·30	+0·75	+136	3·1	+0·7	2·14	+0·70	+49
31. Madras, Southeast	1·6	+0·3	0·82	—0·17	—17	1·5	+0·8	1·11	+0·64	+136	0·6	—0·2	0·32	—0·19	—37
32 Do., Deccan	0·5	+0·2	0·20	0	0	1·3	+1·1	0·50	+0·36	+257	0·1	—0·2	0·03	—0·18	—86
33. Do. Coast, North	0·4	—0·1	0·28	—0·10	—26	2·2	+1·6	1·13	+0·74	+190	0·1	—0·7	0·06	—0·44	—88

rainfall and number of rainy days with their departures from normal in 1929.

April.					May.					June.					July.				
Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
2·0	—0·1	1·12	—0·18	—14	10·3	+0·1	8·46	—0·48	—5	16·7	+0·8	17·48	+3·36	+24	16·3	+0·5	10·17	—2·01	—17
2·2	+0·3	1·53	+0·15	+11	13·0	+0·4	12·02	—0·14	—1	24·3	+2·0	34·17	+8·66	+34	26·2	+1·9	40·33	+10·78	+36
5·5	+3·0	2·23	+0·96	+76	9·1	+1·1	7·34	+1·41	+24	12·7	+1·8	9·22	+1·29	+16	11·5	+1·2	7·55	+0·45	+6
12·5	+0·5	12·64	+3·63	+40	20·4	+6·4	23·03	+11·02	+92	18·3	+0·6	26·42	+8·21	+45	17·1	—1·9	14·69	—4·06	—22
5·9	+1·3	4·15	+0·82	+25	7·3	—1·4	5·29	—2·39	—31	12·5	—1·8	13·52	—1·07	—7	18·1	+1·5	15·46	+0·43	+3
1·7	—0·8	0·83	—0·53	—39	2·2	—2·7	1·20	—2·09	—64	10·2	—1·3	6·13	—3·67	—37	18·7	+3·6	19·13	+6·46	+50
1·2	—0·3	0·34	—0·36	—51	1·4	—2·3	0·68	—1·40	—67	6·5	—4·2	3·56	—5·28	—60	21·6	+6·4	21·15	+8·33	+65
1·2	0	0·65	+0·04	+7	2·3	—0·9	1·46	—0·81	—36	8·0	—0·6	7·66	—0·14	—2	14·9	+1·5	12·18	—0·11	—1
0·3	—0·2	0·08	—0·11	—58	0·3	—1·0	0·17	—0·51	—75	5·8	+0·3	5·74	+0·94	+20	14·5	+1·9	11·74	+0·16	+1
1·0	+0·2	0·25	—0·05	—17	0·2	—1·3	0·07	—0·60	—90	4·8	0	3·25	—0·79	—20	10·3	—1·1	8·30	—3·13	—27
1·3	+0·1	0·40	—0·15	—27	0·4	—1·0	0·11	—0·51	—82	2·7	—0·2	1·59	—0·45	—22	7·6	+0·8	6·28	+0·01	0
0·7	—0·6	0·25	—0·27	—52	0·4	—0·6	0·14	—0·28	—67	0·9	—0·5	0·40	—0·41	—51	6·5	+3·4	5·32	+2·83	+114
3·8	—1·8	1·44	—2·01	—58	2·9	—0·9	1·15	—0·78	—40	4·7	+0·4	2·25	—0·28	—11	10·6	+2·8	8·22	+0·96	+13
1·3	—1·9	0·48	—1·06	—69	0·7	—1·0	0·28	—0·49	—64	1·2	—0·4	0·50	—0·36	—42	7·5	+3·9	6·36	+3·78	+147
0·6	—1·1	0·14	—0·56	—80	0·2	—0·4	0·06	—0·22	—79	0·1	—0·5	0·04	—0·26	—87	3·8	+2·2	2·45	+1·50	+153
0·2	—0·1	0·08	—0·03	—27	0·1	—0·2	0·01	—0·14	—93	0·1	—0·6	0·02	—0·45	—96	4·9	+2·4	8·80	+6·31	+253
0·3	—0·1	0·09	—0·07	—44	0·9	0	0·48	+0·05	+12	1·1	—0·9	0·48	—0·82	—63	6·3	+1·8	6·96	+3·53	+103
0·7	+0·3	0·18	+0·02	+13	0·9	—0·3	0·27	—0·27	—50	3·2	—0·7	1·67	—1·06	—39	10·1	+0·4	9·46	+0·99	+12
0·3	+0·2	0·11	+0·08	+267	0·1	—0·5	0·03	—0·30	—91	5·9	+0·3	4·87	—0·32	—6	11·3	—1·2	14·66	+2·02	+16
0·6	+0·3	0·17	+0·03	+21	0	—1·1	0·03	—0·44	—94	5·8	—0·1	4·10	—0·75	—15	11·4	—0·4	11·55	+0·92	+9
1·1	+0·6	0·27	+0·03	+13	0·2	—0·9	0·11	—0·32	—74	4·1	—1·6	2·39	—2·58	—52	16·3	+2·4	16·73	+3·76	+29
1·7	+1·0	0·61	+0·37	+154	0·1	—1·0	0·02	—0·52	—96	10·0	+2·0	7·80	+1·74	+29	10·0	—2·3	6·53	—2·65	—29
1·2	+0·5	0·40	+0·10	+33	0·1	—1·3	0·02	—0·56	—97	8·2	—0·4	4·98	—2·37	—32	16·7	+1·8	16·60	+3·19	+24
0·8	—0·8	0·29	—0·44	—60	0·2	—1·5	0·06	—0·73	—92	9·5	—0·4	7·34	—1·98	—21	19·3	+3·2	20·12	+4·85	+32
2·1	+1·5	1·13	+0·81	+219	1·3	—0·3	1·00	—0·57	—36	21·5	+3·2	30·69	—5·39	—21	27·6	+1·6	29·95	—9·13	—23
4·2	+2·9	1·86	+1·23	+195	1·3	—1·1	0·70	—0·65	—48	8·3	+0·4	5·30	+0·06	+1	9·5	—1·8	6·12	—1·76	—22
2·4	+1·2	0·90	+0·39	+76	0·2	—1·2	0·09	—0·64	—88	9·4	+1·5	6·19	+0·68	+12	8·0	—3·8	4·15	—3·85	—48
2·0	+0·2	1·04	+0·22	+27	1·1	—1·1	0·42	—0·60	—59	6·9	0	4·78	+0·45	+10	6·8	—3·9	2·62	—3·62	—58
7·9	+5·2	5·14	+3·63	+2[illegible]2	6·9	+1·3	4·11	+0·53	+15	8·1	+0·9	4·97	+0·17	+4	8·5	—1·2	6·31	—0·84	—12
11·4	+5·8	7·66	+3·[illegible]9	+103	8·4	—0·4	5·27	—2·01	—28	24·6	+4·3	32·25	+8·55	+36	22·2	+2·3	26·11	+3·92	+18
5·4	+3·4	3·58	+2·29	+178	3·2	—0·5	1·61	—0·93	—37	3·5	+0·6	1·62	+0·06	+4	2·9	—0·9	1·24	—0·95	—43
2·5	+1·3	1·21	+0·59	+95	3·5	+0·5	1·67	+0·02	+1	4·1	—0·3	2·11	—0·23	—11	3·6	—2·7	1·20	—2·01	—63
1·4	—0·2	0·80	—0·14	—15	2·6	—0·5	1·42	—0·69	—33	8·6	+1·8	6·66	+1·73	+35	8·0	—2·0	4·14	—2·49	—[illegible]

TABLE A-8.—*Average over the 33 sub-divisions of the monthly and annual*

Sub-Division.	August.					September.					October.				
	Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	16·3	+0·8	18·38	+7·06	+62	8·3	—6·3	5·67	—5·74	—50	13·0	+2·8	9·74	+2·72	+39
2. Lower Burma	25·1	+1·2	28·68	+1·27	+5	14·0	—4·6	12·76	—4·72	—27	8·7	—1·6	6·90	—0·84	—11
3. Upper Burma	11·7	0	7·36	—0·92	—11	11·0	+0·3	8·65	+0·77	+10	5·1	—2·3	3·86	—1·62	—30
4. Assam	15·8	—2·0	13·82	—3·00	—18	13·6	—0·2	12·07	—0·46	—4	8·7	+2·0	7·09	+1·42	+25
5. Bengal	15·9	—0·7	11·50	—2·81	—20	10·5	—1·7	10·21	—0·65	—5	9·0	+3·7	10·77	+5·73	+114
6. Orissa	18·2	+2·6	16·36	+3·31	+25	10·9	—0·9	7·42	—1·52	—17	10·3	+4·9	8·49	+3·79	+81
7. Chota Nagpur	19·8	+3·4	17·24	+3·43	+25	6·7	—3·5	4·49	—3·60	—44	9·5	+5·7	8·19	+5·26	+180
8. Bihar	15·5	+2·1	12·22	—0·23	—2	5·5	—3·4	4·90	—3·79	—44	7·7	+5·0	9·64	+7·28	+308
9. United Provinces, East.	16·7	+3·9	14·22	+2·87	+25	2·6	—4·8	1·65	—5·24	—76	2·6	+0·9	1·76	—0·12	—6
10. Do. do., West	12·9	+1·5	10·61	—0·46	—4	2·1	—3·9	1·67	—4·30	—72	1·5	+0·6	0·97	+0·09	+10
11. Punjab, East and North	7·2	+0·5	5·78	—0·61	—10	0·8	—2·5	0·44	—2·91	—87	0·6	0	0·44	+0·06	+16
12. Do., Southwest	6·0	+2·9	4·48	+1·92	+75	0·1	—1·3	0·03	—1·09	—97	0·1	—0·1	0·04	—0·06	—60
13. Kashmir	8·9	+0·3	10·62	+2·76	+35	2·0	—2·0	0·94	—2·66	—74	3·3	+1·6	2·19	+1·14	+109
14. North-West Frontier Province	6·6	+2·6	6·35	+3·19	+101	0·6	—1·3	0·26	—0·92	—78	0·8	+0·1	0·21	—0·12	—36
15. Baluchistan	1·7	+0·1	0·79	—0·16	—17	0	—0·4	0	—0·24	—100	0	—0·3	0	—0·15	—100
16. Sind	4·4	+2·1	5·22	+3·31	+173	0	—0·8	0	—0·62	—100	0	0	0·01	—0·04	—80
17. Rajputana, West	4·6	—0·4	4·33	+0·29	+7	0·4	—2·0	0·20	—1·82	—90	0·1	—0·3	0·01	—0·30	—97
18. Do., East.	8·5	—1·2	7·10	—1·15	—14	1·8	—3·1	1·39	—2·59	—65	0·1	—0·6	0·04	—0·49	—92
19. Gujarat	9·5	—1·3	4·75	—3·39	—42	1·5	—4·2	0·80	—3·85	—83	0·8	—0·4	0·49	—0·42	—46
20. Central India, West	9·2	—2·7	9·36	—1·82	—16	3·3	—3·1	2·63	—2·66	—50	0·1	—1·0	0·03	—0·79	—96
21. Do. do., East	15·6	+1·4	13·06	—0·21	—2	2·8	—4·9	1·61	—5·04	—76	0·7	—1·0	0·45	—0·98	—69
22. Berar	4·3	—6·0	1·67	—5·29	—76	7·7	—0·1	5·10	—0·74	—13	2·2	—0·1	1·09	—0·49	—31
23. Central Provinces, West	13·1	—1·4	12·68	—0·21	—2	7·1	—2·2	6·63	—1·03	—13	0·8	—1·6	0·57	—1·24	—69
24. Do. do., East	16·5	+0·7	15·22	+0·31	+2	11·0	+1·2	7·31	—0·30	—4	4·3	+1·4	2·45	+0·20	+9
25. Konkan	26·5	+2·2	19·21	—4·77	—20	14·0	—1·2	9·33	—3·19	—25	6·7	+1·1	5·28	+0·97	+23
26. Bombay Deccan	6·3	—3·2	2·63	—2·83	—52	8·3	+0·1	6·23	+0·61	+11	4·8	+0·2	3·61	+0·59	+20
27. Hyderabad, North	7·6	—3·2	3·34	—3·89	—54	11·0	+1·1	8·15	+0·05	+1	2·0	—1·3	0·86	—1·44	—63
28. Do., South	6·7	—3·5	3·52	—2·79	—44	9·6	0	6·57	—0·25	—4	3·7	—0·6	2·44	—0·58	—19
29. Mysore	7·3	—1·4	3·18	—2·05	—39	9·9	+1·8	7·10	+1·92	+37	7·2	—0·6	4·09	—1·21	—23
30. Malabar	15·1	—0·8	9·92	—2·56	—21	13·7	+2·3	10·04	+2·21	+28	14·9	+1·5	12·73	+1·59	+14
31. Madras, Southeast	4·7	—0·7	2·66	—0·96	—27	7·2	+1·1	5·01	+0·51	+11	9·7	+0·9	6·58	—0·53	—7
32. Do., Deccan	3·8	—2·8	1·42	—2·49	—64	9·6	+1·7	7·55	+1·80	+31	6·8	+1·1	4·19	+0·02	0
33. Do. Coast, North	10·4	+0·2	6·66	—0·43	—6	9·5	+0·1	6·14	—0·82	—12	7·3	+0·2	7·54	+0·80	+12

rainfall and number of rainy days with their departures from normal in 1928—concld.

November.					December.					Year.				
Rainy days.		Rainfall.			Rainy days.		Rainfall.			Rainy days.		Rainfall.		
Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
7·0	—0·1	7·43	+1·63	+28	1·0	—2·4	0·66	—2·71	—80	99·2	+1·6	84·86	+7·42	+10
2·0	—1·4	1·11	—1·54	—58	0·5	—0·3	0·20	—0·32	—62	117·9	—1·5	138·76	+13·49	+11
1·7	—1·2	0·60	—1·24	—67	0·3	—0·5	0·13	—0·33	—72	70·0	+2·9	47·44	+0·53	+1
1·3	—0·2	0·62	—0·30	—33	1·9	+1·1	0·98	+0·63	+180	120·9	+6·2	117·18	+16·71	+17
0·1	—0·9	0·06	—0·73	—92	1·5	+1·2	0·73	+0·57	+356	85·5	+1·1	74·84	+0·08	0
0	—1·4	0	—1·49	—100	1·5	+1·1	0·76	+0·55	+362	77·3	+4·2	62·60	+4·10	+7
0	—0·7		—0·89	—100	3·9	+3·6	2·28	+2·10	+1615	78·0	+10·1	61·46	+8·86	+17
0	—0·4	0	—0·28	—100	2·9	+2·7	1·76	+1·66	+1660	62·5	+7·1	53·01	+4·57	+9
0	—0·3	0	—0·19	—100	3·0	+2·6	1·54	+1·32	+600	49·2	+3·2	39·06	—0·22	—1
0·1	—0·2	0·02	—0·13	—87	3·7	+3·0	1·80	+1·45	+414	38·9	—3·6	28·17	—9·07	—24
0	—0·3	0	—0·13	—100	3·9	+3·0	2·04	+1·60	+364	26·7	—3·5	17·79	—5·48	—24
0	—0·2	0	—0·08	—100	2·8	+2·3	0·91	+0·70	+333	19·5	+3·2	12·09	+2·11	+21
0·3	—0·7	0·06	—0·42	—87	7·6	+4·5	5·64	+3·67	+186	56·1	—0·3	39·41	—2·57	—6
0	—0·5	0	—0·23	—100	3·9	+2·8	1·28	+0·74	+137	28·3	+1·3	17·52	+1·83	+12
0·1	—0·6	0·05	—0·22	—81	8·0	+1·5	2·08	+1·45	+230	14·3	—2·7	7·73	—0·39	—5
0·5	+0·4	0·22	+0·16	+267	1·3	+1·0	0·45	+0·36	+400	12·1	+3·0	14·97	+8·27	+123
0	—0·1	0	—0·08	—100	0·9	+0·7	0·23	+0·12	+109	14·9	—2·5	12·87	+0·39	+3
0	—0·3	0	—0·16	—100	1·2	+0·7	0·33	+0·12	+57	27·4	—6·1	20·69	—5·24	—20
0	—0·3	0·02	—0·18	—90	0·9	+0·8	0·70	+0·66	+1650	30·6	—6·9	26·50	—5·89	—18
0	—0·7	0	—0·45	—100	1·0	+0·6	0·27	+0·10	+50	32·7	—8·8	28·80	—6·06	—17
0	—0·6	0	—0·33	—100	2·9	+2·3	1·68	+1·41	+522	47·1	—2·7	38·23	—4·06	—10
0	—1·0	0	—0·57	—100	1·0	+0·3	0·56	+0·17	+44	41·4	—4·9	25·63	—6·81	—21
0	—0·8	0	—0·56	—100	2·2	+1·6	1·30	+0·98	+306	53·2	—3·6	44·80	—1·98	—4
0	—0·7	0	—0·40	—100	2·3	+1·7	1·64	+1·35	+466	67·8	+4·7	56·14	+2·40	+4
1·4	—0·1	0·82	—0·19	—19	0·7	+0·4	0·50	+0·36	+257	102·0	+7·9	98·08	—10·41	—10
0·9	—0·7	0·38	—0·62	—62	0·2	—0·3	0·06	—0·22	—79	44·8	—3·3	27·25	—3·62	—12
0	—1·3	0	—0·77	—100	0·7	+0·1	0·16	—0·20	—56	45·3	—4·6	25·77	—8·53	—25
0	—1·9	0·02	—1·04	—98	0·4	0	0·29	+0·07	+32	41·3	—8·2	23·93	—6·75	—22
4·5	+0·7	3·27	+0·85	+35	0·8	0	0·24	—0·21	—47	63·0	+7·6	39·24	+3·11	+9
8·8	—0·7	6·99	—0·38	—5	3·0	+0·4	1·77	—0·01	—1	128·2	+16·3	116·94	+16·53	+16
9·8	+1·4	8·26	+0·78	+10	6·6	+2·4	4·15	+0·77	+23	56·7	+8·0	36·96	+1·32	+4
4·2	+0·9	2·54	+0·88	+18	1·1	+0·4	0·43	+0·02	+5	41·1	+1·2	23·05	—1·75	—7
1·5	—2·2	1·53	—2·16	—59	1·7	+0·8	0·94	+0·09	+11	53·7	—1·1	37·20	—3·91	—9

TABLE A-9.—*Average over the 15 Chief political divisions of the actual rainfall with its departure from normal for the four seasons of the year, and for the whole year, 1929.*

Division.	January and February.			March to May.			June to September.			October to December.			Whole Year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
Burma	0·30	—0·03	—9	11·87	+1·31	+12	70·61	+8·13	+13	6·23	—2·97	—32	89·01	+6·44	+8
Assam	2·94	+0·74	+34	38·55	+13·53	+54	67·00	+0·69	+1	8·69	+1·75	+25	117·18	+16·71	+17
Bengal	1·84	+0·55	+43	10·75	—1·94	—15	50·69	—4·10	—7	11·56	+5·57	+93	74·84	+0·08	0
Bihar and Orissa	2·15	+0·72	+50	2·33	—1·68	—42	42·27	—0·35	—1	10·64	+6·85	+181	57·39	+5·54	+11
United Provinces	1·43	—0·07	—5	0·51	—0·89	—64	28·26	—5·23	—15	3·03	+1·23	+68	33·23	—4·96	—13
Punjab	0·62	—1·30	—68	0·52	—1·42	—73	13·11	—2·15	—14	2·10	+1·29	+159	16·35	—3·58	—18
North-West Frontier Province	1·27	—1·20	—49	1·29	—3·00	—70	13·47	+5·69	+73	1·49	+0·34	+30	17·52	+1·83	+12
Sind	0·16	—0·36	—69	0·09	—0·40	—82	14·04	+8·55	+156	0·68	+0·48	+240	14·97	+8·27	+123
Rajputana	0·19	—0·38	—67	0·50	—0·37	—43	17·02	—2·12	—11	0·33	—0·42	—56	18·04	—3·29	—15
Bombay	0·19	—0·01	—5	1·76	+0·20	+13	34·05	—5·80	—15	3·58	+0·08	+2	39·58	—5·53	—12
Central India	0·95	+0·11	+13	0·25	—0·60	—71	29·05	—4·25	—13	0·73	—0·85	—54	30·98	—5·59	—15
Central Provinces	1·79	+0·48	+37	0·46	—1·21	—72	40·43	—0·40	—1	2·79	+0·03	+1	45·47	—1·10	—2
Hyderabad	2·04	+1·62	+386	1·23	—0·68	—36	19·77	—6·63	—25	1·84	—2·00	—52	24·88	—7·69	—24
Mysore	0·77	+0·52	+208	9·31	+3·96	+74	21·56	—0·80	—4	7·60	—0·57	—7	39·24	+3·11	+9
Madras	1·78	+0·55	+47	6·86	+0·87	+15	30·64	+1·69	+6	16·33	+0·49	+3	55·56	+3·60	+7
Mean of India	1·12	+0·12	+12	5·28	+0·22	+4	36·46	—0·27	—1	5·52	+0·50	+10	48·38	+0·57	+1

TABLE A-10.—*Average over the 33 sub-divisions of the actual rainfall with its departure from normal for the four seasons of the year, and for the whole year, 1929.*

Sub-Division.	January and February.			March to May.			June to September.			October to December.			Whole Year.		
	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.	Actual.	Departure from normal.	Percentage departure from normal.
1. Bay Islands	3·13	+1·71	+120	12·20	+1·40	+13	51·70	+2·67	+5	17·83	+1·64	+10	84·86	+7·42	+10
2. Lower Burma	0·40	+0·06	+18	14·21	+0·14	+1	115·94	+15·99	+16	8·21	—2·70	—25	138·76	+13·49	+11
3. Upper Burma	0·22	—0·10	—31	9·90	+2·28	+30	32·78	+1·59	+5	4·59	—3·19	—41	47·44	+0·53	+1
4. Assam	2·94	+0·74	+34	38·55	+13·53	+54	67·00	+0·69	+1	8·69	+1·75	+25	117·18	+16·71	+17
5. Bengal	1·84	+0·55	+43	10·75	—1·94	—15	50·69	—4·10	—7	11·56	+5·57	+93	74·84	+0·08	0
6. Orissa	1·57	—0·05	—3	2·44	—3·28	—57	49·34	+4·38	+10	9·25	+2·85	+45	62·60	+4·10	+7
7. Chota Nagpur	3·11	+1·21	+64	1·49	—2·20	—60	46·44	+2·88	+7	10·42	+6·97	+202	61·46	+8·86	+17
8. Bihar	2·01	+0·88	+78	2·65	—0·70	—21	36·95	—4·27	—10	11·40	+8·66	+316	53·01	+4·57	+9
9. United Provinces, East	1·78	+0·60	+51	0·63	—0·56	—47	33·35	—1·27	—4	3·30	+1·01	+44	39·06	—0·22	—1
10. Do. do., West	1·13	—0·65	—37	0·42	—1·15	—73	23·83	—8·68	—27	2·79	+1·41	+102	28·17	—9·07	—24
11. Punjab, East and North	0·68	—1·53	—69	0·54	—1·53	—74	14·09	—3·95	—22	2·48	+1·53	+161	17·79	—5·48	—24
12. Do., Southwest	0·45	—0·58	—56	0·46	—1·12	—71	10·23	+3·25	+47	0·95	+0·56	+144	12·09	+2·11	+21
13. Kashmir	5·80	—1·45	—20	3·72	—6·26	—63	22·03	+0·78	+4	7·86	+4·36	+125	39·41	—2·57	—6
14. North-West Frontier Province	1·27	—1·20	—49	1·29	—3·00	—70	13·47	+5·69	+73	1·49	+0·34	+30	17·52	+1·83	+12
15. Baluchistan	2·07	—0·33	—14	0·25	—1·98	—89	3·28	+0·84	+34	2·13	+1·08	+103	7·73	—0·39	—5
16. Sind	0·16	—0·36	—69	0·09	—0·40	—82	14·04	+8·55	+156	0·68	+0·48	+240	14·97	+8·27	+123
17. Rajputana, West	0·09	—0·33	—79	0·57	—0·20	—26	11·97	+1·18	+11	0·24	—0·26	—52	12·87	+0·39	+3
18. Do., East	0·25	—0·42	—63	0·45	—0·48	—52	19·62	—3·81	—16	0·37	—0·53	—59	20·68	—5·25	—20
19. Gujarat	0·07	—0·12	—63	0·14	—0·29	—67	25·08	—5·54	—18	1·21	+0·06	+5	26·50	—5·89	—18
20. Central India, West	0·66	—0·03	—4	0·20	—0·58	—74	27·64	—4·31	—13	0·30	—1·14	—79	28·80	—6·06	—17
21. Do. do., East	1·93	+0·59	+44	0·38	—0·68	—64	33·79	—4·07	—11	2·13	+0·10	+5	38·23	—4·06	—10
22. Berar	2·20	+1·45	+193	0·68	—0·43	—39	21·10	—6·94	—25	1·65	—0·89	—35	25·63	—6·81	—21
23. Central Provinces, West	1·61	+0·27	+20	0·43	—1·01	—70	40·89	—0·42	—1	1·87	—0·82	—30	44·80	—1·98	—4
24. Do. do., East	1·69	+0·12	+8	0·37	—1·75	—83	49·99	+2·88	+6	4·09	+1·15	+39	56·14	+2·40	+4
25. Konkan	0·05	—0·10	—67	2·25	+0·25	+13	89·18	—11·70	—12	6·60	+1·14	+21	98·08	—10·41	—10
26. Bombay Deccan	0·30	+0·07	+30	2·62	+0·49	+23	20·28	—3·92	—16	4·05	—0·26	—6	27·25	—3·62	—12
27. Hyderabad, North	1·90	+1·48	+352	1·02	—0·59	—37	21·83	—7·01	—24	1·02	—2·41	—70	25·77	—8·53	—25
28. Do., South	2·22	+1·80	+429	1·47	—0·79	—35	17·49	—6·21	—26	2·75	—1·55	—36	23·93	—6·75	—22
29. Mysore	0·77	+0·52	+208	9·31	+3·96	+74	21·56	—0·89	—4	7·60	—0·57	—7	39·24	+3·11	+9
30. Malabar	2·06	+0·63	+44	15·07	+2·58	+21	78·32	+12·12	+18	21·49	+1·20	+6	116·94	+16·53	+16
31. Madras, Southeast	1·93	+0·47	+32	5·51	+1·17	+27	10·53	—1·34	—11	18·99	+1·02	+6	36·96	+1·32	+4
32. Do., Deccan	0·70	+0·36	+106	2·91	+0·43	+17	12·28	—2·96	—19	7·16	+0·42	+6	23·05	—1·75	—7
33. Do. Coast, North	1·41	+0·64	+83	2·28	—1·27	—36	23·60	—2·01	—8	10·01	—1·27	—11	37·30	—3·91	—9

TABLE A-11.—*Average over the 33 sub-divisions of actual number of rainy days with their departures from normal for the four seasons of the year, and for the whole year, 1929.*

Sub-Division.	January and February.		March to May.		June to September.		October to December.		Whole Year.	
	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.	Actual.	Departure from normal.
1. Bay Islands	4·0	+2·0	16·6	+3·5	57·6	—4·2	21·0	+0·3	99·2	+1·6
2. Lower Burma	0·8	+0·2	16·3	+1·1	89·6	+0·5	11·2	—3·3	117·9	—1·5
3. Upper Burma	0·6	—0·3	15·4	+3·9	46·9	+3·3	7·1	—4·0	70·0	+2·9
4. Assam	5·7	+0·7	38·5	+6·1	64·8	—3·5	11·9	+2·9	120·9	+6·2
5. Bengal	3·1	+0·8	14·8	—1·0	57·0	—2·7	10·6	+4·0	85·5	+1·1
6. Orissa	3·1	+0·5	4·4	—4·9	58·0	+4·0	11·8	+4·6	77·3	+4·2
7. Chota Nagpur	6·1	+2·6	3·9	—3·2	54·6	+2·1	13·4	+8·6	78·0	+10·1
8. Bihar	3·4	+1·0	4·6	—0·8	43·9	—0·4	10·6	+7·3	62·5	+7·1
9. United Provinces, East	3·0	+0·3	1·0	—1·6	39·6	+1·3	5·6	+3·2	49·2	+3·2
10. Do. do., West	2·1	—1·3	1·4	—2·2	30·1	—3·5	5·3	+3·4	38·9	—3·6
11. Punjab, East and North	2·1	—2·1	1·8	—2·7	18·3	—1·4	4·5	+2·7	26·7	—3·5
12. Do., Southwest	1·7	—0·8	1·4	—2·5	13·5	+4·5	2·9	+2·0	19·5	+3·2
13. Kashmir	9·4	—0·7	9·3	—6·5	26·2	+1·5	11·2	+5·4	56·1	—0·3
14. North-West Frontier Province	4·1	—0·9	3·6	—5·0	15·9	+4·8	4·7	+2·4	28·3	+1·3
15. Baluchistan	4·6	—0·2	1·0	—4·2	5·6	+1·4	3·1	+0·6	14·3	—2·7
16. Sind	0·6	—0·7	0·3	—0·8	9·4	+3·1	1·8	+1·4	12·1	+3·0
17. Rajputana, West	0·3	—0·7	1·2	—0·6	12·4	—1·5	1·0	+0·3	14·9	—2·5
18. Do., East	0·9	—0·7	1·6	—0·6	23·6	—4·6	1·3	—0·2	27·4	—6·1
19. Gujarat	0·3	—0·1	0·4	—0.5	28·2	—6·4	1·7	+0·1	30·6	—6·9
20. Central India, West	1·3	—0·2	0·6	—1·2	29·7	—6·3	1·1	—1·1	32·7	—8·8
21. Do, do., East	3·4	+0·5	1·3	—1·2	38·8	—2·7	3·6	+0·7	47·1	—2·7
22. Berar	4·2	+2·3	2·0	—0·5	32·0	—6·4	3·2	—0·8	41·4	—4·9
23. Central Provinces, West	3·8	+1·4	1·3	—2·0	45·1	—2·2	3·0	—0·8	53·2	3·6
24. Do. do., East	3·8	+1·1	1·1	—3·5	56·3	+4·7	6·6	+2·4	67·8	+4·7
25. Konkan	0·1	—0·2	3·5	+0·9	89·6	+5·8	8·8	+1·4	102·0	+7·9
26. Bombay, Deccan	0·8	+0·3	5·7	+1·7	32·4	—4·5	5·9	—0·8	44·8	—3·3
27. Hyderabad, North	3·8	+3·0	2·8	—0·7	36·0	—4·4	2·7	—2·5	45·3	—4·6
28. Do., South	4·1	+3·3	3·1	—1·6	30·0	—7·4	4·1	—2·5	41·3	—8·2
29. Mysore	1·8	+1·4	14·9	+6·0	33·8	+0·1	12·5	+0·1	63·0	+7·6
30. Malabar	3·0	+0·9	22·9	+6·1	75·6	+8·1	20·7	+1·2	129·2	+16·3
31. Madras, Southeast	3·1	+1·1	9·2	+2·7	18·3	+0·1	26·1	+4·7	56·7	+8·6
32. Do., Deccan	1·8	+1·3	6·1	+1·6	21·1	—4·1	12·1	+2·4	41·1	+1·2
33. Do. Coast, North	2·6	+1·5	4·1	—1·5	36·5	+0·1	10·5	—1·2	53·7	—1·1

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1939.*

BURMA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Akyab . . .	Maungdaw . .	4th June	2·40	11·10	3·80
Do. . . .	Buthidaung . .	4th June	4·25	12·64	2·04
Kyaukpyu . .	Kyaukpyu .	7th June	2·44	11·33	2·03
Akyab . . .	Myohaung . .	10th June	1·60	10·32	0·95
Do. . . .	Buthidaung . .	11th June	0·65	10·50	7·50
Do. . . .	Maungdaw . .	23rd July	4·40	11·00	1·70

ASSAM.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Khasi and Jaintia Hills	Cherrapunji Police Station.	30th April	6·18	10·08	8·10
Do. . . .	Cherrapunji Welsh Mission House.	1st May	9·45	12·10	8·90
Sylhet . . .	Lallakhal . .	1st May	5·25	10·38	2·20
Lushai Hills . .	Aijal . . .	5th May	2·42	10·40	0·02
Do. . . .	Demagiri . .	5th June	8·13	11·20	0·55
Cachar (North Cachar Hills).	Jatinga Valley .	5th June	2·46	10·29	1·10
Khasi and Jaintia Hills	Cherrapunji Welsh Mission House.	5th June	0·49	10·06	9·89
Sylhet . . .	Sunamganj . .	6th June	1·85	10·00	2·62
Do. . . .	Langla . . .	9th June	2·15	12·75	10·00
Do. . . .	Do. . . .	10th June	12·75	10·00	3·15
Do. . . .	Sunamganj . .	10th June	1·78	11·12	2·18
Do. . . .	Maulvi Bazar .	10th June	1·60	10·38	5·15
Do. . . .	Dullabcherra . .	10th June	6·15	10·56	2·15
Goalpara . . .	Kachugaon . .	10th June	1·62	11·34	6·50
Cachar . . .	Monierkhal . .	10th June	3·01	10·68	3·30
Do. . . .	Jaffirband . .	10th June	4·12	13·52	5·35
Do. . . .	Kukicherrah . .	10th June	1·13	18·63	13·95
Lushai Hills . .	Sialsuk . .	10th June	2·83	14·36	6·16
Do. . . .	Kolosib . .	10th June	0·75	13·95	7·61
Do. . . .	Lungleh . .	11th June	9·83	16·70	12·32
Do. . . .	Sherkawn . .	11th June	9·83	14·33	12·44
Cachar . . .	Hailakandi . .	11th June	3·40	12·42	3·80
Do. . . .	Koyah . . .	11th June	7·61	11·80	3·82
Do. . . .	Kukicherrah . .	11th June	18·63	13·95	1·57
Khasi and Jaintia Hills	Cherrapunji Welsh Mission House.	11th June	6·65	13·11	4·65
Sylhet . . .	Karimganj . .	11th June	4·24	15·01	4·80

ASSAM—*contd.*

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Sylhet . . .	Karimganj farm .	11th June	4·26	15·36	5·27
Do. . . .	Bhanga . .	11th June	5·59	10·89	4·45
Lushai Hills . .	Lungleh . .	12th June	16·70	12·32	1·05
Do. . . .	Sherkawn . .	12th June	14·33	12·44	0·95
Khasi and Jaintia Hills	Cherrapunji Welsh Mission House.	14th June	7·40	10·20	0
Do. . .	Do. . .	1st July	4·23	14·48	4·80
Do. . . .	Cherrapunji Police Station.	1st July	8·91	14·87	3·09
Do. . . .	Do. . .	4th Aug.	4·25	13·06	4·90
Do. . . .	Cherrapunji Welsh Mission House.	4th Aug.	4·40	13·85	5·73
Do. . . .	Mawphlang . .	4th Aug.	1·43	11·25	1·62
Do. . . .	Cherrapunji Police Station.	11th Sept.	0·66	11·38	2·73
Do. . . .	Cherrapunji Welsh Mission House.	11th Sept.	1·75	19·20	11·27
Do. . . .	Do. . .	12th Sept.	19·20	11·27	3·65

BENGAL.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Chittagong Hill Tracts	Barkal . . .	6th June	9·15	10·40	0·13
Do. . . .	Nakhyongchhari .	8th June	3·10	10·66	3·90
Jalpaiguri . . .	Buxa . . .	10th June	0·42	11·60	3·07
Do. . . .	Do. . . .	12th June	3·07	14·38	4·81
Chittagong Hill Tracts	Nakhyongchhari .	12th June	0·65	11·00	14·40
Do. . .	Do. . .	13th June	11·00	14·40	0·64
Jalpaiguri . . .	Kalchini . . .	23rd June	0·96	11·57	1·45
Do. . . .	Buxa . . .	30th June	6·40	20·75	1·81
Do. . . .	Kalchini . . .	1st July	2·88	11·65	1·81
Bankura . . .	Taldangra . .	8th Aug.	0·24	12·00	0·32
Midnapore . .	Tamluk . . .	8th Aug.	1·42	10·56	2·61
Bankura . . .	Saranga . . .	9th Aug.	0	13·17	0·62
Howrah . . .	Mahesrekha . .	9th Aug.	0·28	10·22	0·32
Darjiling . . .	Mongpoo . . .	11th Sept.	0·13	10·52	0·38
Rangpur . . .	Bhawaniganj . .	8th Oct.	3·50	18·00	0·43
Do. . . .	Kurigaon . . .	8th Oct.	3·69	10·75	0·69
Do. . . .	Ulipur . . .	8th Oct.	4·20	13·26	9·20
Boalia . . .	Badalgachi . .	8th Oct.	4·75	15·00	0
Darjiling . . .	Darjiling observatory.	20th Oct.	5·47	13·17	1·34
Do. . . .	Mongpoo . .	20th Oct.	3·94	11·80	2·05

TABLE A-12.—*Showing rainfall of 10" and over, with amounts in the preceding and following 24 hours, during the year 1929*—concld.

BIHAR AND ORISSA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Feudatory States of Orissa and Chota-Nagpur.	Pal-Lahara . .	29th July	7·74	10·37	1·06
Bhagalpur . . .	Amarpur . .	8th Oct.	1·67	10·09	0

UNITED PROVINCES.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Dehra Dun . .	Rajpur . . .	3rd Aug.	1·40	12·15	1·60

KASHMIR.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Jammu . .	Riasi . . .	28th Aug.	2·90	12·00	0

RAJPUTANA.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Jodhpur . . .	Parbatsar . .	24th July	7·00	12·08	3·73
Sirohi . . .	Mount Abu . .	27th July	2·52	15·53	1·99
Do. . . .	Do. . . .	21st Aug.	4·91	10·70	0·71
Do. . . .	Do. . . .	27th Aug.	6·50	14·43	2·57

CENTRAL PROVINCES AND BERAR.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Seoni . . .	Seoni . . .	12th July	0	10·87	0·50
Feudatory States .	Sarangarh . .	25th July	1·10	11·83	0

BOMBAY.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Surat . . .	Olpad . . .	11th July	0	15·08	0
Navsari . . .	Navsari . .	12th July	1·97	18·43	2·20
Do. . . .	Mangrol . .	12th July	0·85	10·12	4·50
Surat . . .	Surat . . .	13th July	0·35	11·13	4·72
Do. . . .	Bardoli . . .	13th July	0·64	11·38	2·77
Do. . . .	Valod . . .	13th July	0·75	11·48	1·61
Do. . . .	Jalalpore . .	13th July	2·05	13·10	2·18
Do. . . .	Chikhli . . .	13th July	1·30	14·10	4·61
Do. . . .	Bulsar . . .	13th July	2·32	13·38	2·93
Do. . . .	Pardi . . .	13th July	1·16	10·29	1·14
Surat Agency . .	Dharampur . .	13th July	1·06	11·41	1·74
Do. . . .	Sachin . . .	13th July	0·46	15·28	2·86
Do. . . .	Bansda . . .	13th July	2·70	14·15	1·27
Kathiawar . . .	Jaffrabad . .	13th July	0	12·00	4·40
Do. . . .	Navanagar . .	13th July	0	11·86	13·19
Do. . . .	Do. . . .	14th July	11·86	13·19	0·42

MADRAS.

District.	Station.	Date.	Amount.		
			Preceding day.	On date in column 3.	Succeeding day.
1	2	3	4	5	6
Coorg . . .	Bhagamandla .	4th July	3·47	11·45	14·00
Do. . . .	Do. . . .	5th July	11·45	14·00	6·62
Do. . . .	Napoklu . .	5th July	1·95	10·75	8·55

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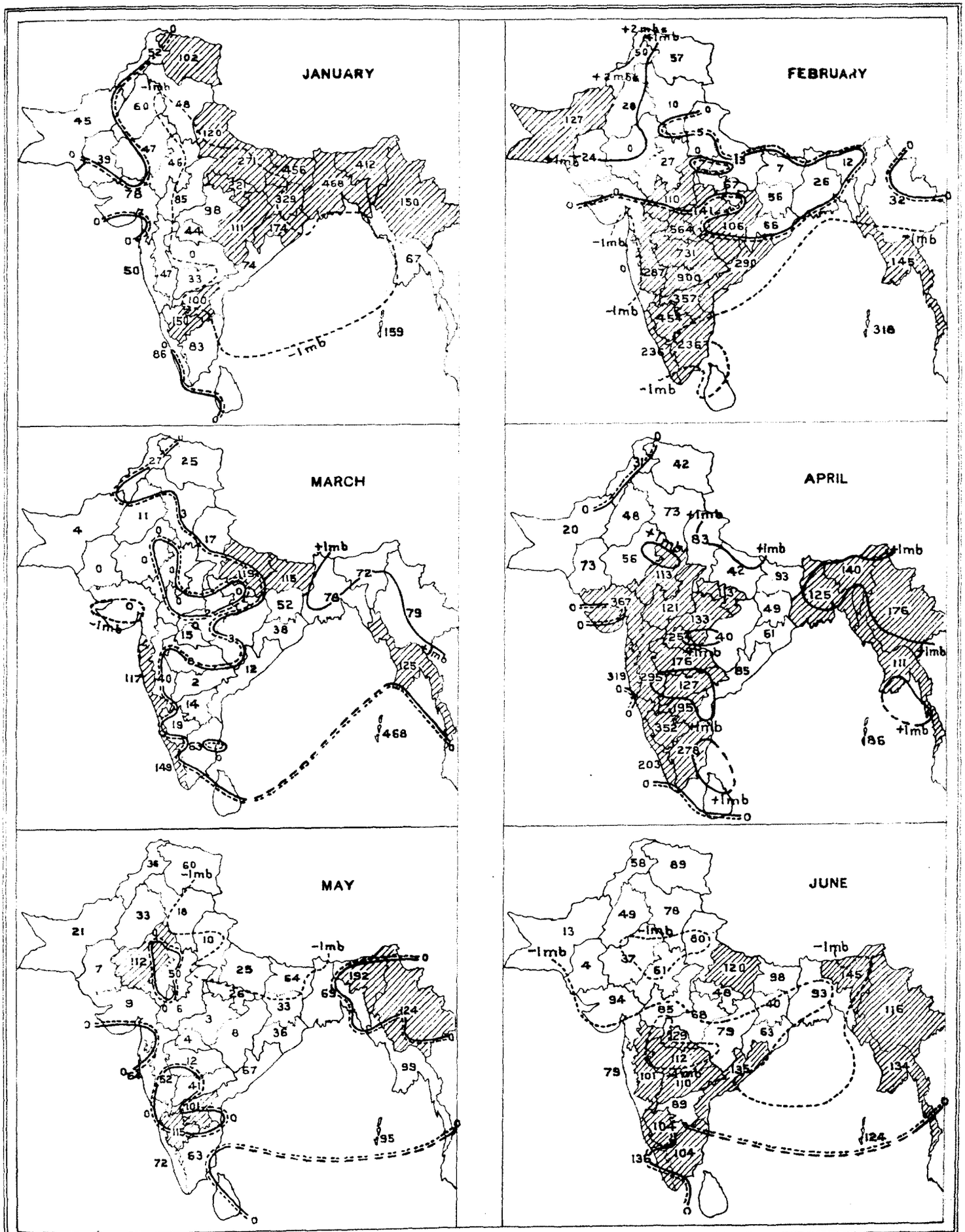
SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS) AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1929

Plate A 1



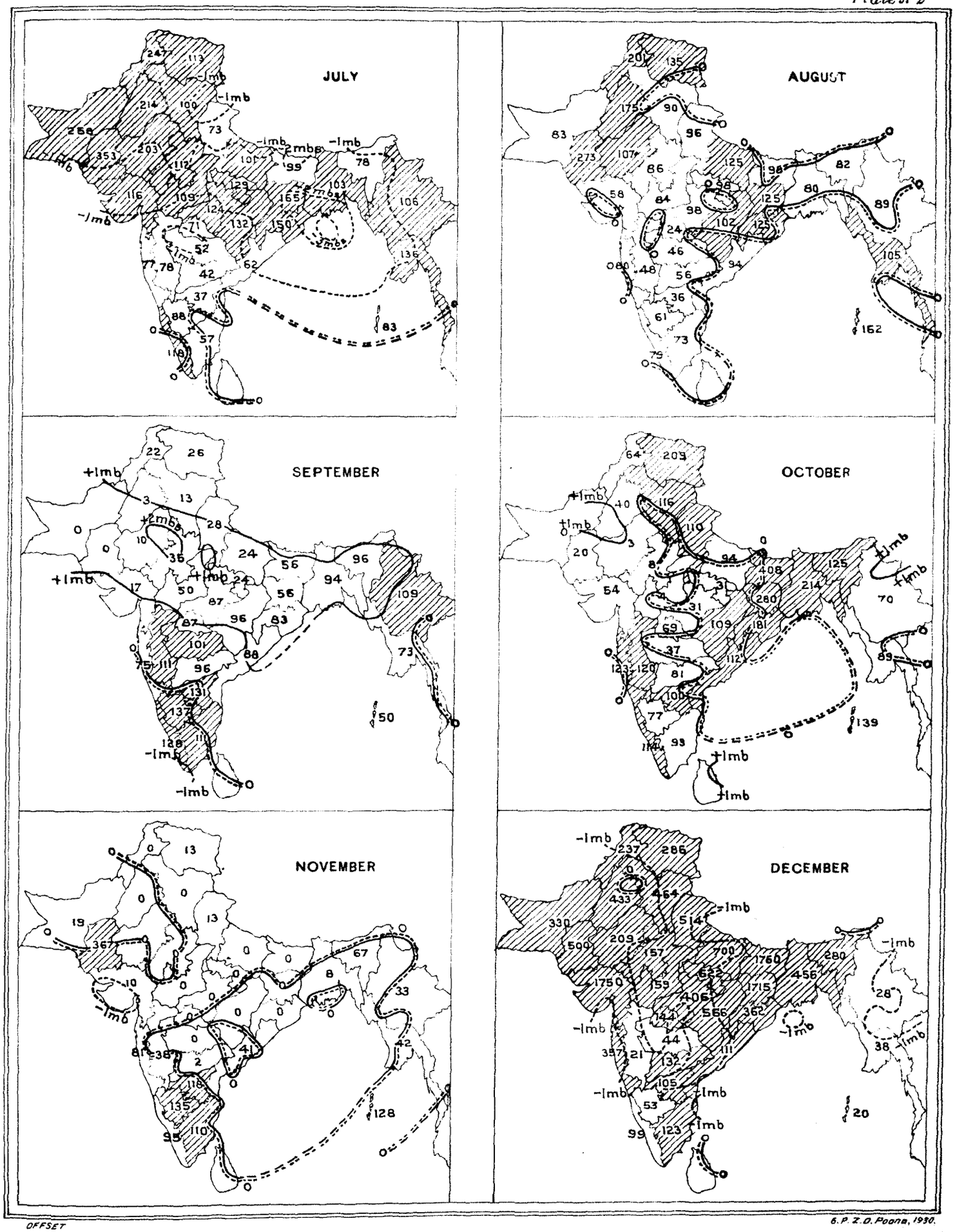
OFFSET

S.P.Z.O. Poona, 1930.

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS) AND MEAN MONTHLY PRESSURE ANOMALIES (IN MILLIBARS)

1929

Plate A 2



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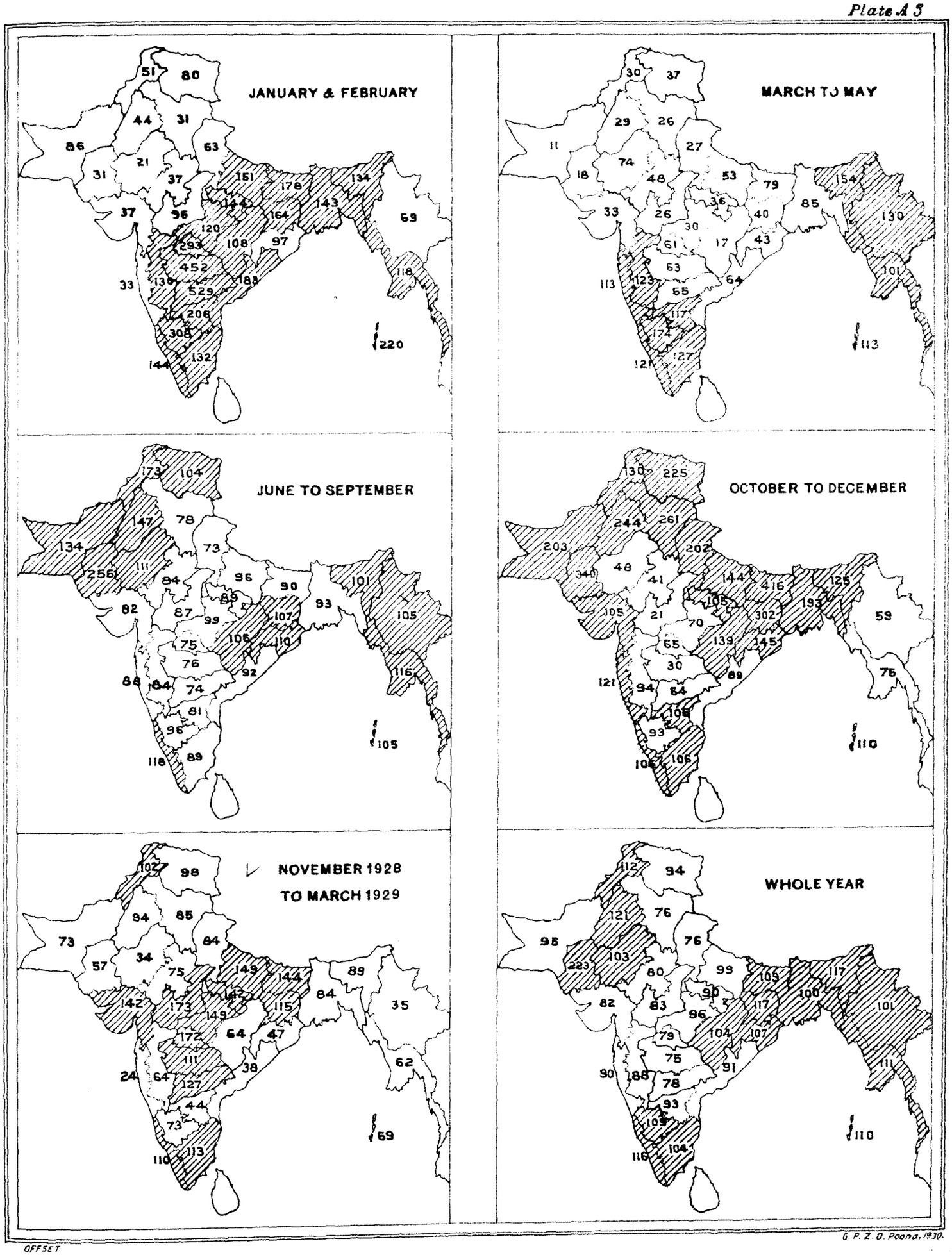
S.P.Z.O. Poona, 1930.

SUBDIVISIONAL RAINFALL TOTALS (PERCENTAGE OF RESPECTIVE NORMALS) IN DIFFERENT PERIODS OF THE YEAR 1929

Plate A 3



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G. P. Z. O. Poona, 1930.