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MONTHLY AND SEASONAL RAINFALL SERIES FOR ALL-INDIA HOMOGENEOUS REGIONS AND METEOROLOGICAL SUBDIVISIONS : 1871-1994

by

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Summary

This report includes a listing of monthly, seasonal and annual rainfall data series for the period 1871-1994 for All-India, five homogeneous regions and 29 meteorological subdivisions prepared on the basis of a fixed and well-distributed network of 306 raingauge stations over India by proper area-weightage. Percentage departure diagrams with marking of Dry/Wet years on the bars have also been presented for all these series. This information will be very much useful to the scientists working on Indian rainfall, policy makers and Governmental agencies.

Introduction

The importance of the Indian monsoon rainfall to the country's economy and also as a major global circulation parameter has motivated many studies during the last century, pertaining to its characteristics, variability, teleconnections with regional/global circulation features and long-range prediction. It is well known that the release of latent heat energy over Indian sub-continent plays an important role in many low/middle latitudinal circulations around the globe. There are many recent studies, notable Drosdowsky (1990), Joseph et al., (1991), Yasunari (1991) and Kiladis and Sinha (1991), which have brought out that the Indian rainfall is an useful input parameter in forecasting or estimating the other regional parameters. Much effort has been made during the past two decades in the preparation and analysis of the summer monsoon (southwest monsoon : June through September) seasonal rainfall series which are tabulated and their statistical characteristics, teleconnections etc. analysed in detail (Mooley and Parthasarathy, 1984; Parthasarathy et al., 1987, 1991, 1992b; 1993, 1994).

Due to the high spatial variability of monsoon rainfall over India, it is not uncommon to find some areas of deficient rain even with the best all-India monsoon performance (and some areas of floods even with the worst all-India monsoon performance). It is very difficult to incorporate all such complex spatial and temporal variabilities in a single series, i.e., All-India mean series. Therefore, it becomes necessary to express the Indian monsoon rainfall in a variety of ways depending on the application. However, monthly and seasonal series which are most sought after by various research workers are not readily available in published form based on fixed network of raingauges. To meet this requirement, this report incorporates a tabulation of such data series for various applications.

Details of rainfall data

The total number of raingauges in India varied from 50 in 1850 to 5,000 in 1990. After an initial screening of all the available data series, a fixed number of 306 well-distributed raingauge stations, one from each of the districts (a small administrative area) in the plain regions of India, have been selected for the present study; care has been taken to exclude non-homogeneous records and only reliable or corrected station data have been used in the calculation of area averaged means. The Symon's pattern raingauge with 127 mm (5 inch) diameter funnel, one foot above the surface, was used in the data period, and there had been no change in instruments. The earliest year for which reliable data are available for these stations is 1871. The relevant monthly rainfall data of these 306 stations have been obtained for the period 1871 to present, from the records of the India Meteorological Department, Pune. The hilly regions consisting of four subdivisions in the Himalayas (hatched areas in Fig. 1, sub-division numbers 2, 12, 15, 16) have not been considered in view of the inadequate raingauge network, their limited representativeness. The islands in the Bay of Bengal (subdivision number 1) and the Arabian sea (sub-division number 35), not shown in Fig. 1, have also not been considered for the present study to maintain contiguity. The contiguous area considered measures 2.88×10^6 Sq. Km., which constitutes about 90 percent of the country's total area. The spatial pattern of mean summer monsoon rainfall map based on data for 306 stations over the period 1871-1978 (Parthasarathy, 1984a) is in good agreement with

climatological (normal) map prepared by the India Meteorological Department (IMD) on the basis of about 3,000 raingauge stations for the period 1901-50 (Rao, 1976; IMD, 1981). This shows that the rainfall stations selected here are adequately representative. Also, the rainfall data of all the individual stations used in this study have been found to be homogeneous, Gaussian-distributed and free from persistence for the period 1871-1978 (Parthasarathy, 1984b).

Fig. 1 shows the latest meteorological sub-divisions into which the country has been divided and the area considered along with the location of raingauges used in this study. Area-weighted mean monthly rainfall (January through December) for each of the 29 meteorological sub-divisions have been prepared by assigning the district area as the weight for each representative raingauge station for the period 1871-1990. For the recent period after 1990, the monthly rainfall data for some of the 306 stations are not readily available in published form; however, to make the study up-to-date, the following procedure has been followed. The Hydrology unit of India Meteorological Department (IMD), Pune compiles the monthly rainfall data based on all reported observatory stations (about 350) for different meteorological sub-divisions of India at the end of the year, and these are published in the subsequent issues of official IMD Journal Mausam. From these and from other IMD publications, we obtained the monthly rainfall data (R_{ij} for the ith subdivision and jth year) for the period 1991-94 for each of the 29 subdivisions used in this study; however, the number of reporting stations varied from year to year. The IMD monthly normal rainfall ($\bar{R}_i$ period 1901-70) for each of the sub-divisions prepared on the basis of reporting stations are also available for each month and year. From these data, the homogeneous sub-divisional monthly rainfall R^*_{ij} for the period 1991-94 are estimated for all months by using the expression :-

$$R^*_{ij} = R_{ij} [R^*_i / \bar{R}_i]$$

where R^*_i is the subdivisional normal based on the stations used by Parthasarathy et.al., (1992b) for the period 1871-1990. As such, these data may be considered to be approximate and realistic for immediate use.

All-India and five homogeneous regional rainfall series

All-India (India taken as one unit, see Fig. 1) average monthly rainfall values are computed by weighting each of the 29 subdivisional rainfall, with its corresponding area as the weight, for the period 1871-1994. The country is then divided into five homogeneous regions on the basis of similarity in rainfall characteristics and association of subdivisional monsoon rainfall with regional/global circulation parameters (Parthasarathy et al., 1995).The five homogeneous regions are (i) Northwest (NW); (ii) West Central (WC); (iii) Central Northeast (CNE); (iv) Northeast (NE) and (v) Peninsula (PN). Fig. 2 indicates these five regions and the subdivisions comprising of them. Mean monthly rainfall series for the five homogeneous regions are also prepared by area-weighting the rainfall of the corresponding sub-divisions, for the period 1871-1994.

A listing of All-India, 5 homogeneous regional and 29 subdivisional, monthly, seasonal and annual data series of the period 1871-1994 along with some statistical details is provided as Appendix to this report.

Excess and deficient monsoon rainfall years over different regions :

The fluctuations in the quantity of monsoon (June to September) rainfall over different parts of the country have an important bearing on agriculture and economy. Monsoon rainfall also shows conspicuous episodic variations in its associations with different circulation parameters. Various definitions have been used to define drought/flood over a region, depending on the context. In a tropical country like India, rainfall invariably becomes the dominant parameter in almost all the definitions of drought (drought/deficient/dry and flood/excess/wet). The India Meteorological Department (1971) consider drought to have occurred in a year over a region or subdivision when the seasonal rainfall is less than 75% of the normal. However, this criterion does not take into account the variability of the rainfall over different subdivisions of the country, which varies from 12% in Assam to 44% in Gujarat. In any region, human activities are adopted to the prevailing climatic pattern of the region including the mean as well as variability of rainfall. Therefore, it may be presumed that only rainfall deficits/excess exceeding the average variability of the season are felt by the people of the respective region as being markedly detrimental . Therefore, it appears reasonable to define normal rainfall over a region in terms of standard deviate $(R_i - \bar{R})/S$ since CV (Coefficient of Variation) over different parts of India varies between 15 and 45 percent. Parthasarathy (1987, 1992a) classified the All-India monsoon rainfall of an individual year as deficient when it is less than $\bar{R}$-S and excessive when it is more than $\bar{R}$ + S, and showed the impact of these extreme rainfall years on the total as well as rainy-season foodgrain production of the country. Similar reasoning can be extended to the homogeneous region and to the sub-divisional scale also. Thus, the seasonal rainfall (R_i) with a mean of $\bar{R}$ and standard deviation of S for a meteorological region/subdivision in the ith year is classified as being deficient (dry) when it is less than $\bar{R}$ - S and excess (wet) when R_i is more than $\bar{R}$ + S. If R_i is within $\bar{R} \pm S$, the rainfall is considered to be normal.

As the monsoon rainfall is very much important to Indian economy and studies of global circulations, diagrams for All-India, five homogeneous regions and 29 subdivisional monsoon rainfall series expressed as percentage departure from long-term mean (1871-1990), along with a low-pass filter curve (Bionomial low pass filter; see Tyson et al 1975) with dry/wet years marked on the bars of the diagrams are presented. These diagrams are self explanatory and need no special description. These data series and diagrams provide useful information for scientists and policy makers interested in the Indian monsoon rainfall.

Conclusions

Monthly, seasonal and annual rainfall series have been prepared for All-India, five homogeneous regions and 29 meteorological sub-divisions after thoroughly scrutinizing the 306 raingauge stations for the period 1871-1994. Rainfall data listings and graphs are provided to meet the needs of scientists working in Indian rainfall.

Acknowledgements

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References :

Drosdowsky, W. 1990. A simple index of the second POP Component of Southern Oscillation. *Trop. Ocean. Atmos. Newsl (TOAN)*, 54, 13-15.

India Meteorological Department, 1971. *Rainfall and droughts in India*. Report of the Drought Unit, India Meteorologicla Department, Pune

India Meteorological Department, 1981. *Climatological Atlas of India : Part A (Rainfall).* IMD, Pune.

Joseph, P.V., Liebman, B. and Hendon, H.H., 1991. Interannual variability of the Australian summer monsoon onset : Possible influence of Indian summer monsoon and El Nino. *J.Climate*, 4, 529-538.

Kiladis, G.N. and Sinha, S.K., 1991. ENSO, monsoon and droughts in India. In : *Teleconnections linking worldwide climate anomalies - Scientific basis and Social impact. (eds.)* M.H. Glantz; R.W. Kalz and N. Nicholls, Chapter 14, Cambridge University Press, New York, pp. 431-458.

Mooley, D.A. and Parthasarathy,B., 1984. Fluctuations in All-India summer monsoon rainfall during 1871-1978. *Climatic Change*, 6, 287-301.

Parthasarathy, B., 1984a. *Some aspects of large-scale fluctuations in the summer monsoon rainfall over India during 1871-1978*. Ph.D. Thesis, University of Pune, India, pp. 370.

Parthasarathy, B., 1984b. Interannual and long-term variability of Indian summer monsoon rainfall. *Proc. Ind. Acad. Sci. (Earth and Planetry Sci.)*, 93, 371-385 .

Parthasarathy, B., Sontake, N.A., Munot, A.A. and Kothawale, D.R., 1987. Droughts/ floods in the summer monsoon season over different meteorlogical sub-divisions of India for the period 1871-1984. *J. Climatology*, 7, 57-70.

Parthasarathy,B., Rupa Kumar, K. and Munot, A.A., 1991. Evidence of secular variations in Indian monsoon rainfall - circulation relationships. *J.Climatology*, 4, 929-930.

Parthasarathy, B., Rupa Kumar, K. and Munot, A.A., 1992a. Forecasting of rainy-season foodgrain production based on monsoon rainfall. *Ind. J.Agr. Sci.*, 62, 1-8.

Parthasarathy,B., Rupa Kumar, K. and Kothawale, D.R., 1992b. Indian summer monsoon rainfall indices : 1871-1990. *Meteorol. Magaz.*, 121, 174-186.

Parthasarathy,B., Rupa Kumar, K. and Munot, A.A., 1993. Homogeneous Indian Monsoon Rainfall : Variability and Prediction. *Proc. Ind. Acad. Sci. (Earth & Planetary Sci.)*, 102, 121-155.

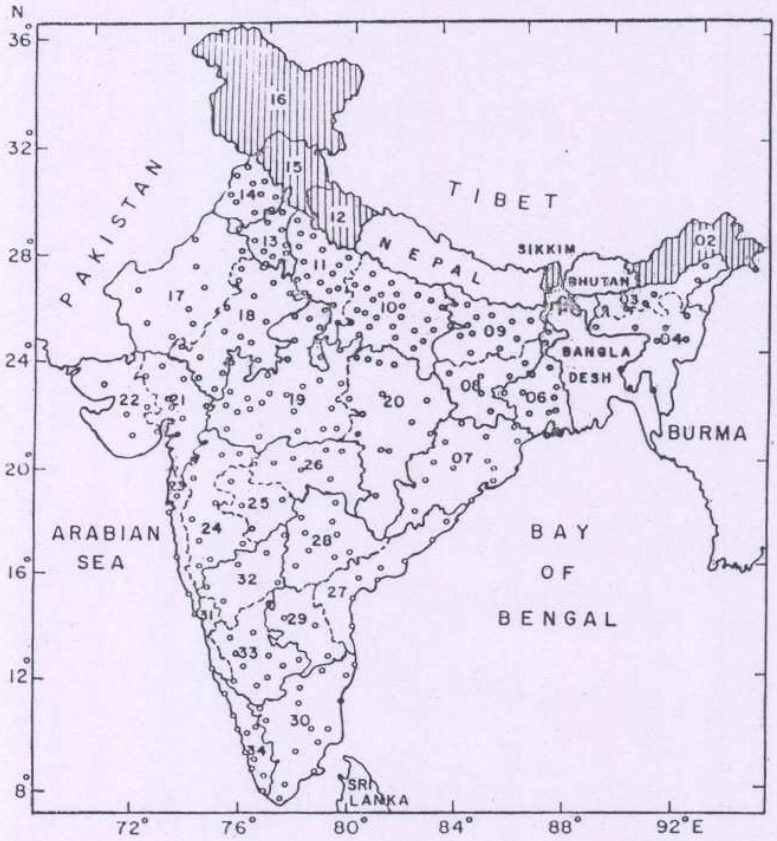
Parthasarathy,B., Munot, A.A. and Kothawale, D.R., 1994. All-India Monthly and seasonal rainfall series : 1871-1993. *Theor.Appli. Climatol.*, 49, 217-224.

Parthasarathy, B., Rupa Kumar, K. and Munot, A.A., 1995. Homogeneous Regional summer monsoon rainfall over India : Interannual variability and Teleconnections. (submitted).

Rao, Y.P., 1976. *Southwest Monsoons*. Meteorological Monograph No. 1, India Meteorological Department, Pune, pp. 367.

Tyeson, P.D., Dyer, T.G. and Mametsa, M.N., 1975. Secular changes in south African rainfall : 1880 to 1972. *Quart. J.Roy. Meteorol. Soc.*, 101, 817-833.

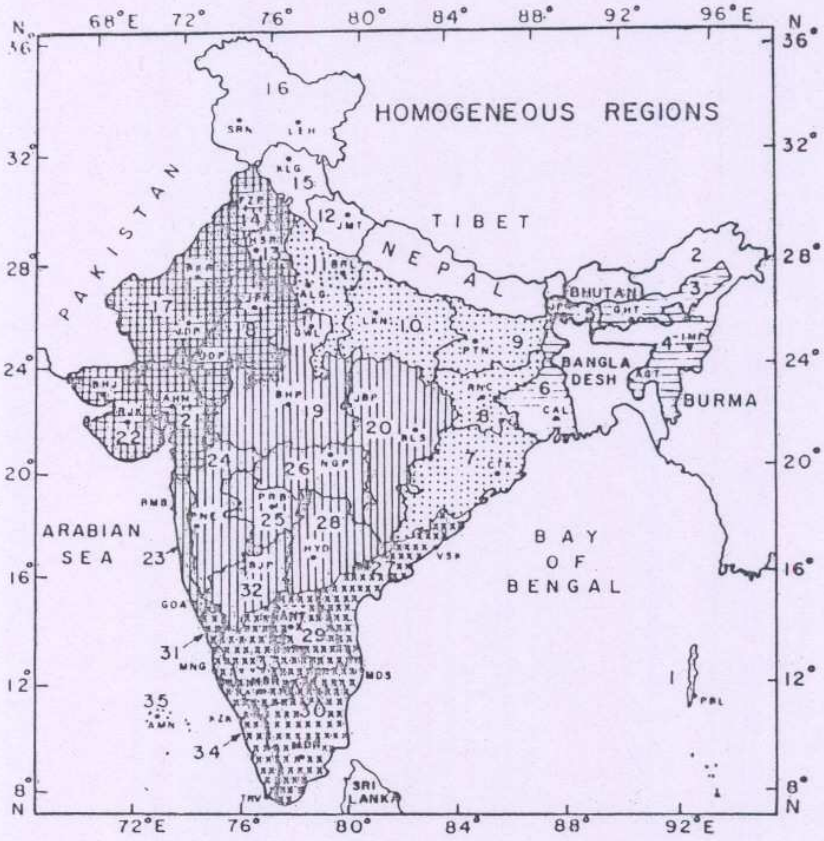
Yasunari, T., 1991. The monsoon year - a new concept of the climatic year in the tropics. *Bull. Am. Meteorol. Soc.*, 72, 1331-1338.



2. Arunachal Pradesh
3. North Assam
4. South Assam
5. Sub-Himalayan West Bengal
6. Gangetic West Bengal
7. Orissa
8. Bihar Plateau
9. Bihar Plains
10. East Uttar Pradesh
11. West Uttar Pradesh Plains
12. West Uttar Pradesh Hills
13. Harayana
14. Punjab
15. Himachal Pradesh
16. Jammu and Kashmir
17. West Rajasthan
18. East Rajasthan
19. West Madhya Pradesh
20. East Madhya Pradesh
21. Gujarat
22. Saurashtra & Kutch
23. Konkan & Goa
24. Madhya Maharashtra
25. Marathwada
26. Vidarbha
27. Coastal Andhra Pradesh
28. Telangana
29. Rayalseema
30. Tamil Nadu
31. Coastal Karnataka
32. North Karnataka
33. South Karnataka
34. Kerala

METEOROLOGICAL SUB-DIVISIONS OF INDIA AND LOCATIONS OF RAINGAUGE STATIONS. HATCHED AREAS ARE NOT CONSIDERED.

FIGURE - I



REGIONS	SUB-DIVISION NUMBERS	
NORTHWEST INDIA	: 13, 14, 17, 18, 21, 22	= 6
WEST CENTRAL INDIA	: 19, 20, 23, 24, 25, 26, 28, 32	= 8
CENTRAL NORTHEAST INDIA	: 07, 08, 09, 10, 11	= 5
NORTHEAST INDIA	: 03, 04, 05, 06	= 4
PENINSULAR INDIA	: 27, 29, 30, 31, 33, 34	= 6
NOT CONSIDERED	: 1, 2, 12, 15, 16, 35	= 6

MAP SHOWING DIFFERENT HOMOGENEOUS REGIONS OF INDIA.

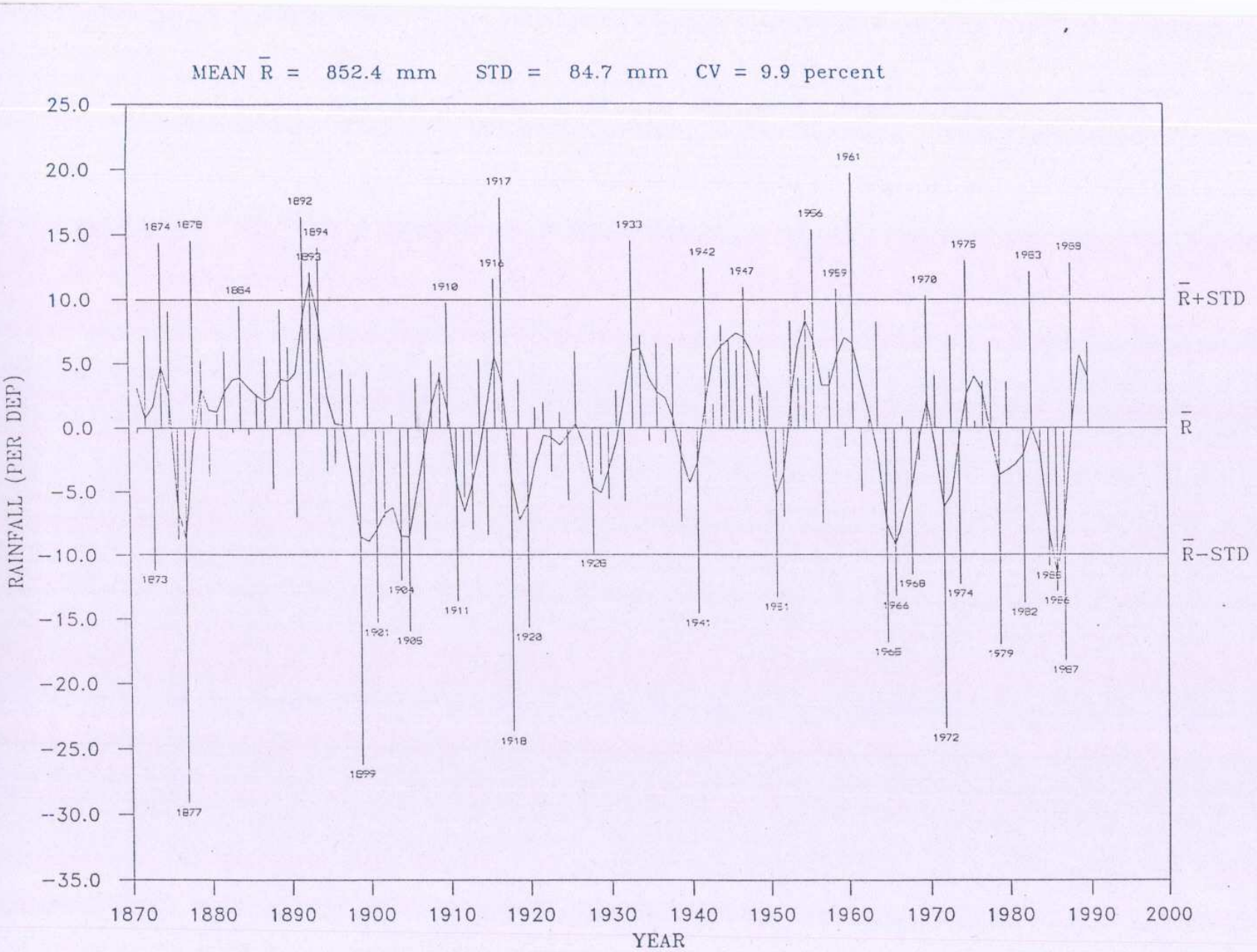
FIGURE - 2

Diagrams :

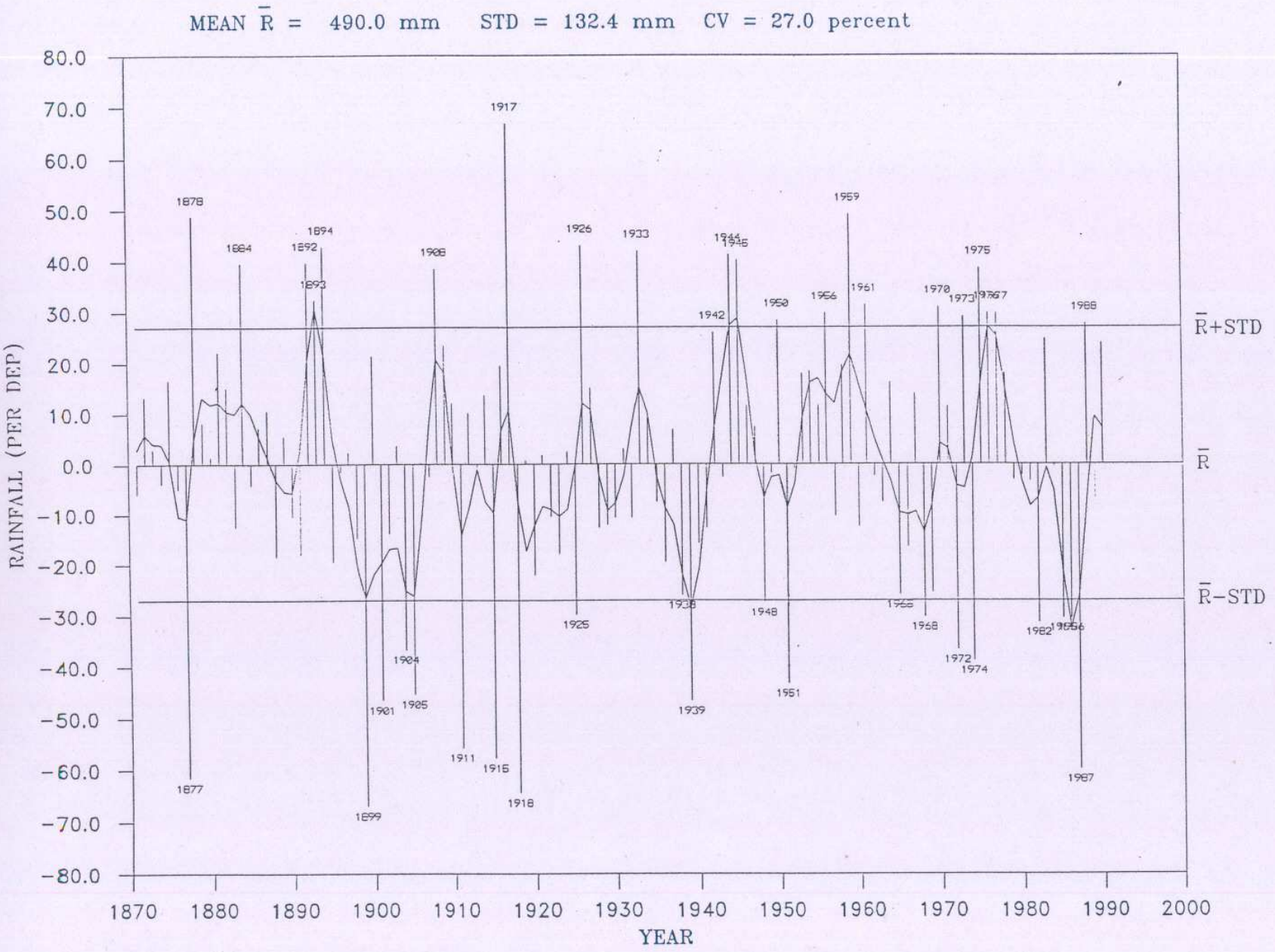
- Year-to-year percentage departure from long-term mean (1871-1990) of summer monsoon seasonal (June to September) rainfall from 1871 to 1990.

- Excess (Wet)/Deficient (Dry) years are marked against bars in each diagram

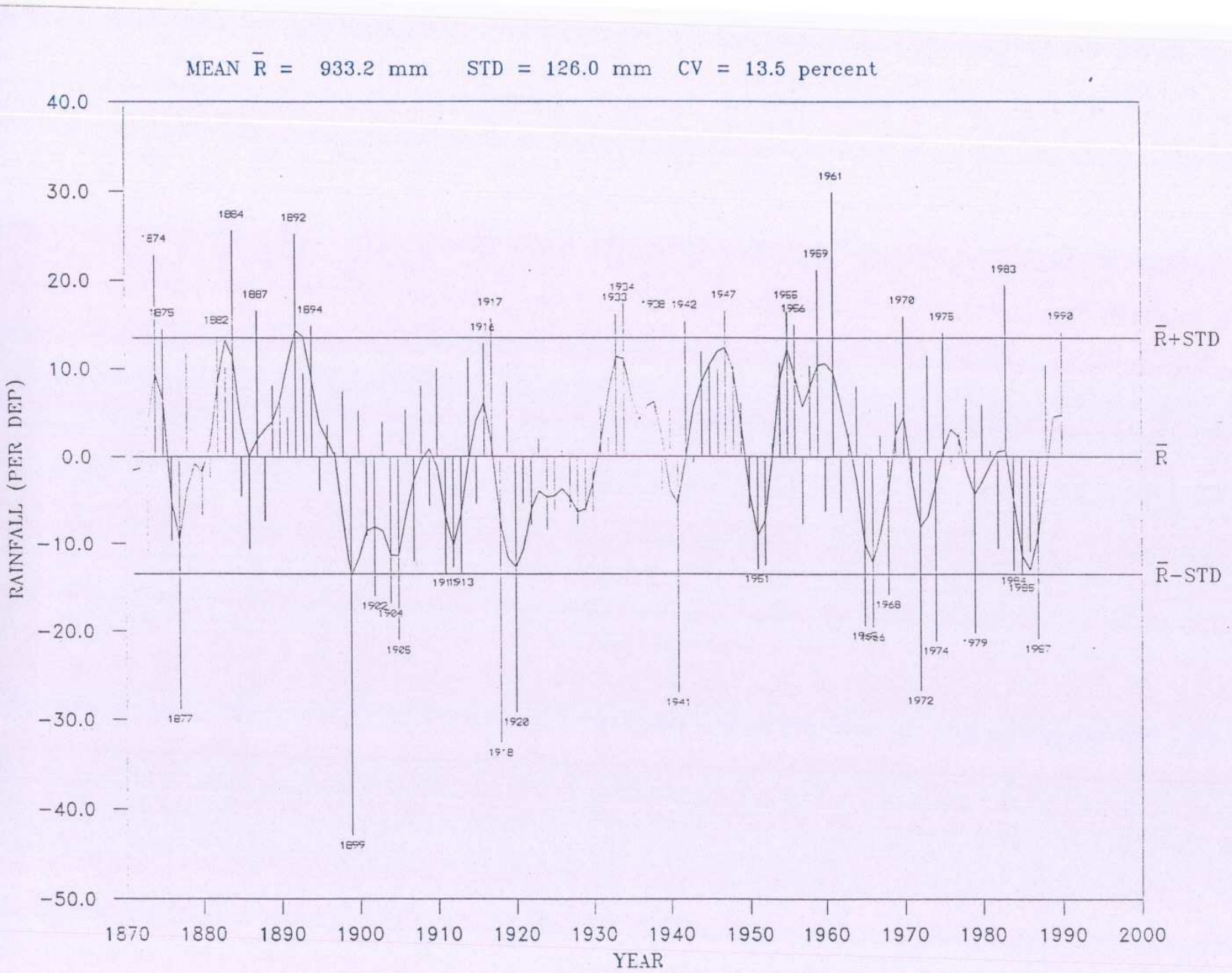
All-India	
Homogeneous Regions	5
Meteorological Subdivisions	29



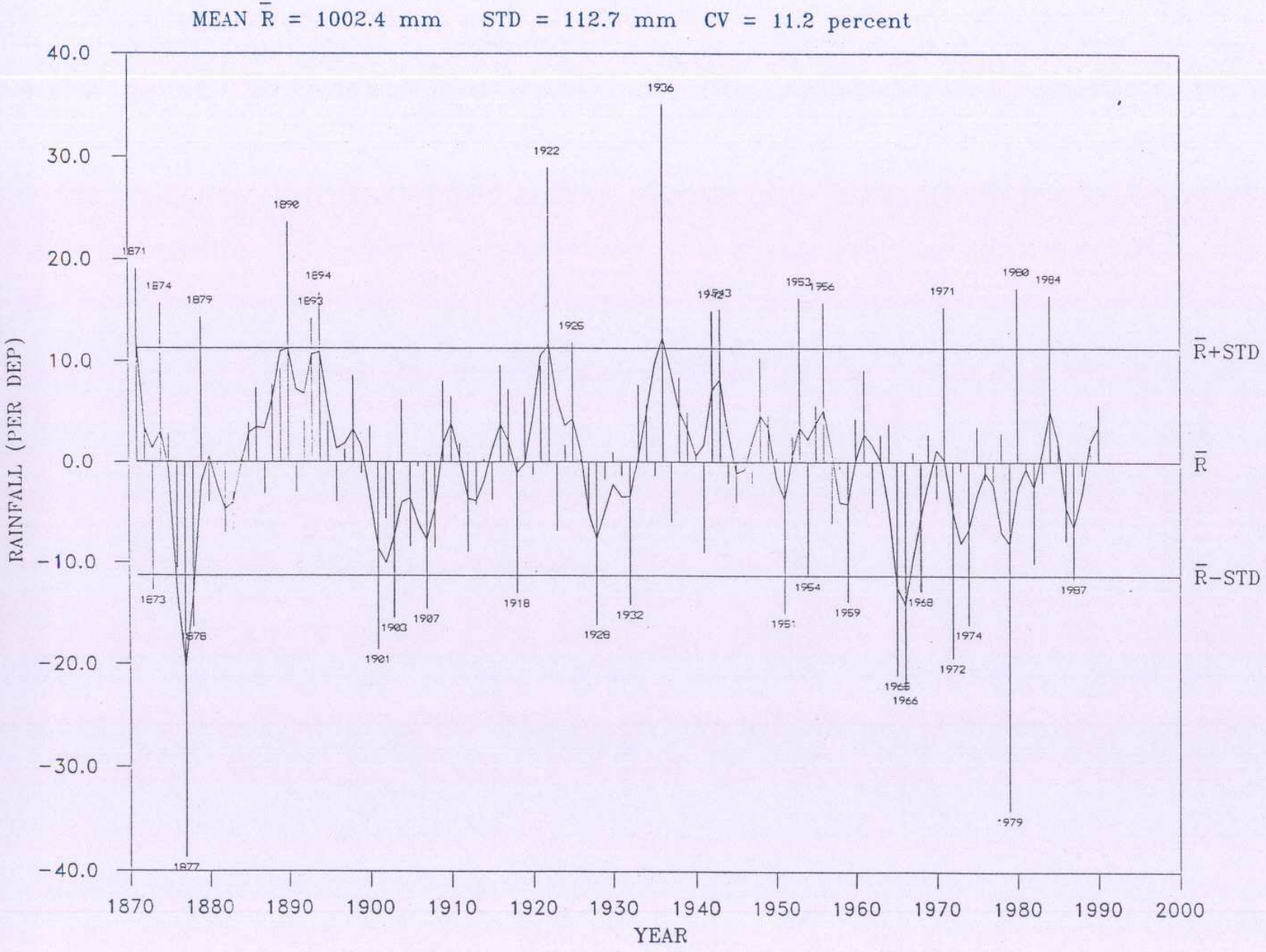
ALL-INDIA SUMMER MONSOON RAINFALL 1871-1990



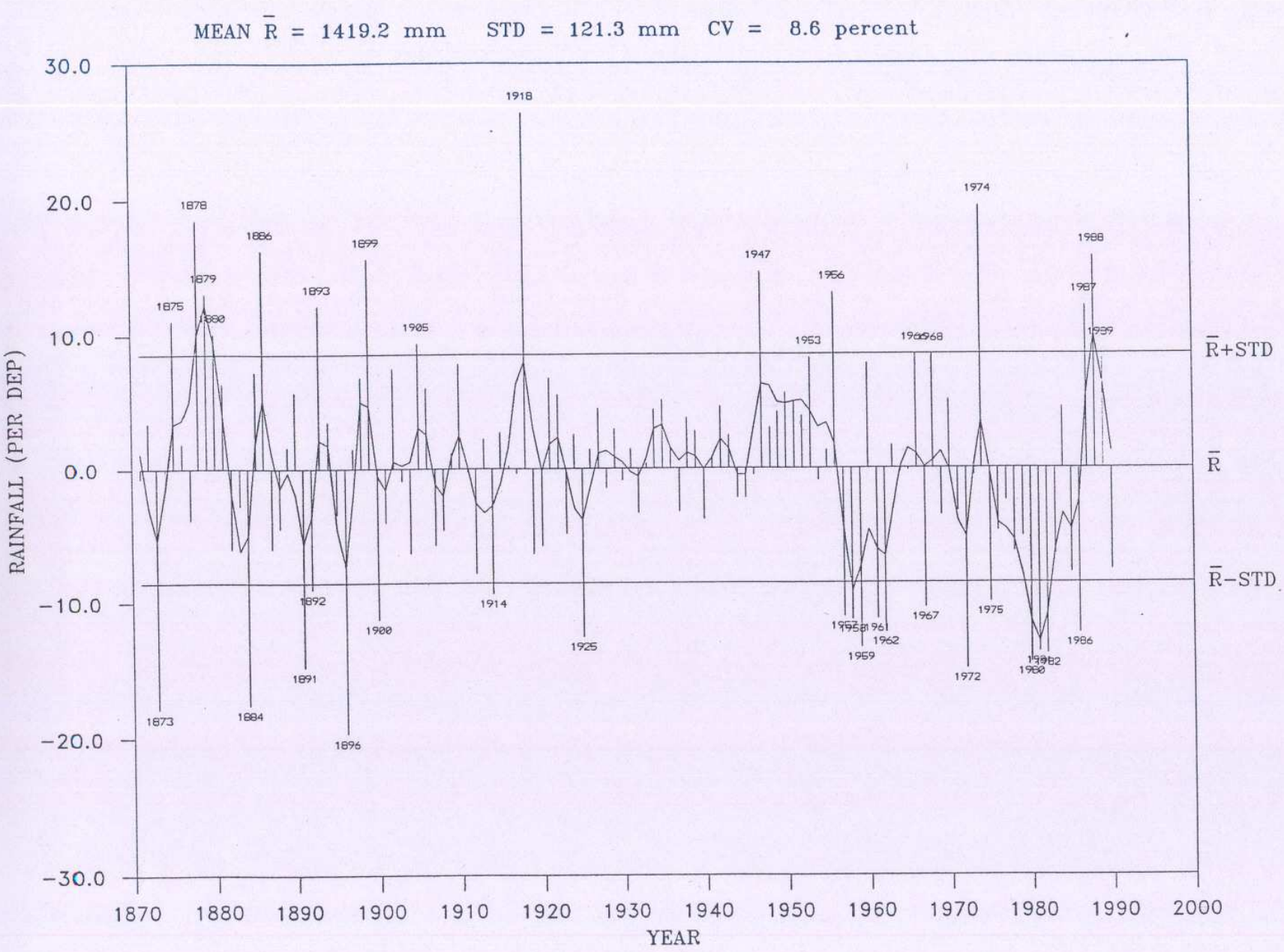
NORTH WEST REGION SUMMER MONSOON RAINFALL 1871-1990



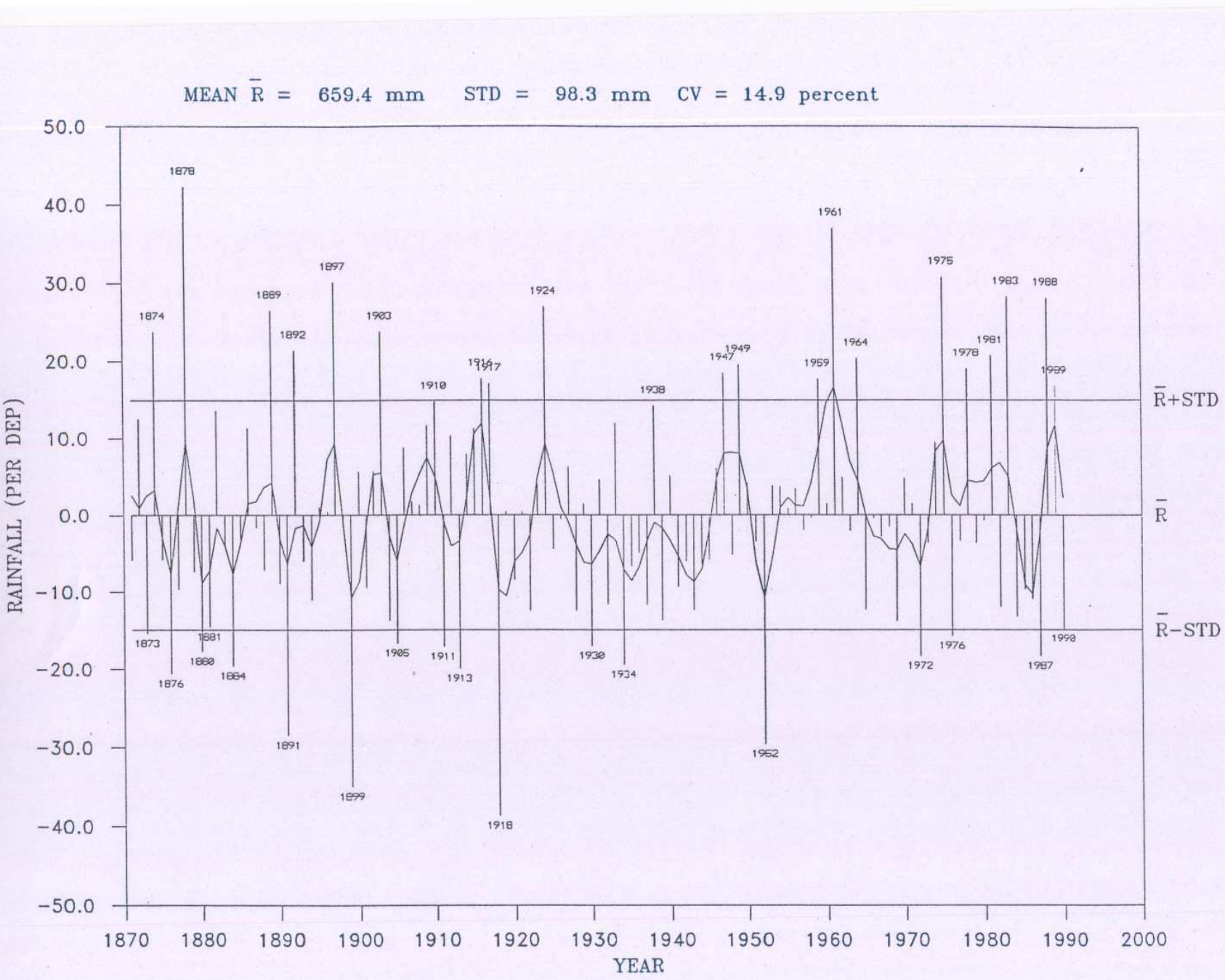
WEST CENTRAL REGION SUMMER MONSOON RAINFALL 1871-1990



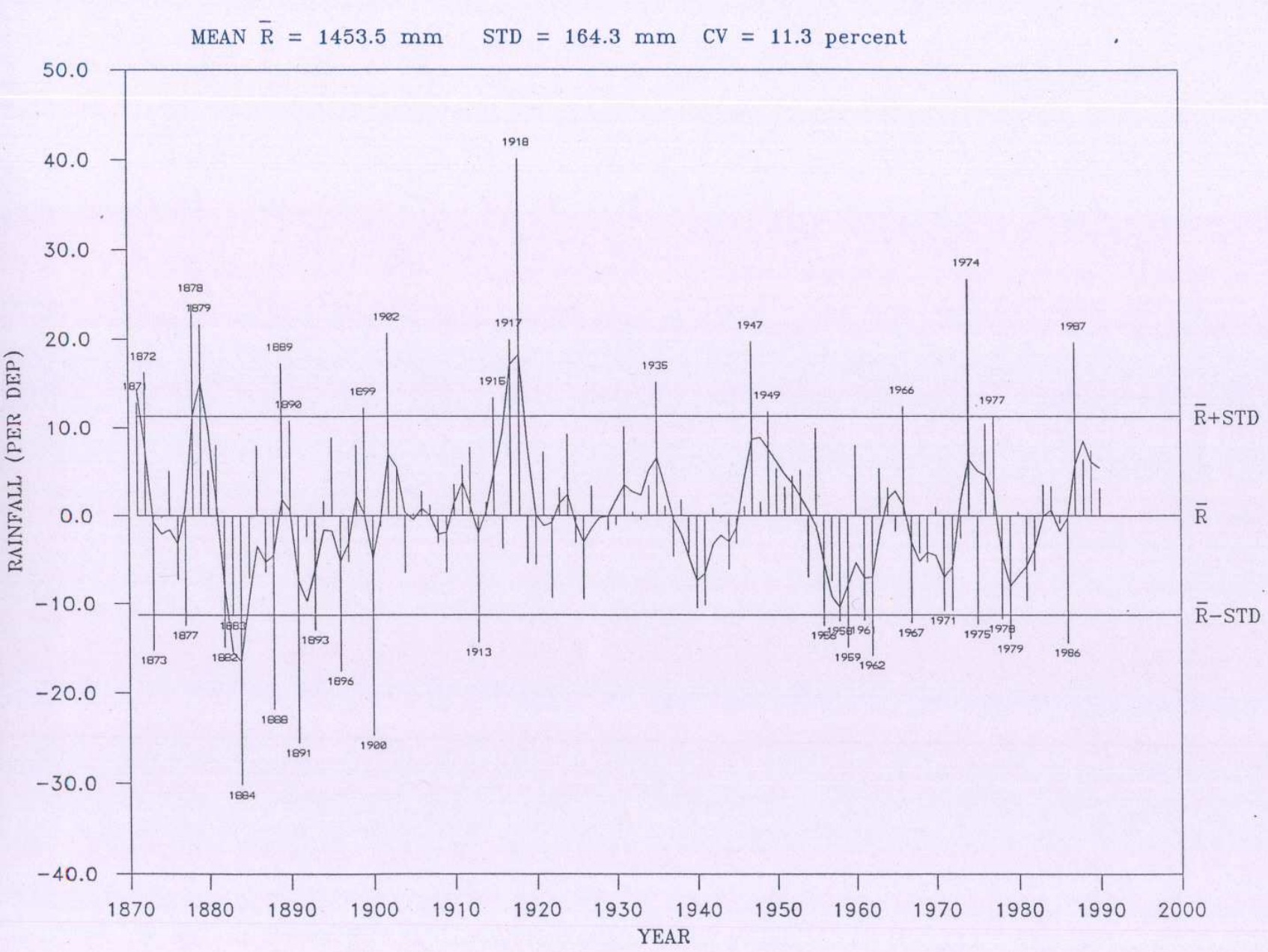
CENTRAL NORTHEAST REGION SUMMER MONSOON RAINFALL 1871-1990



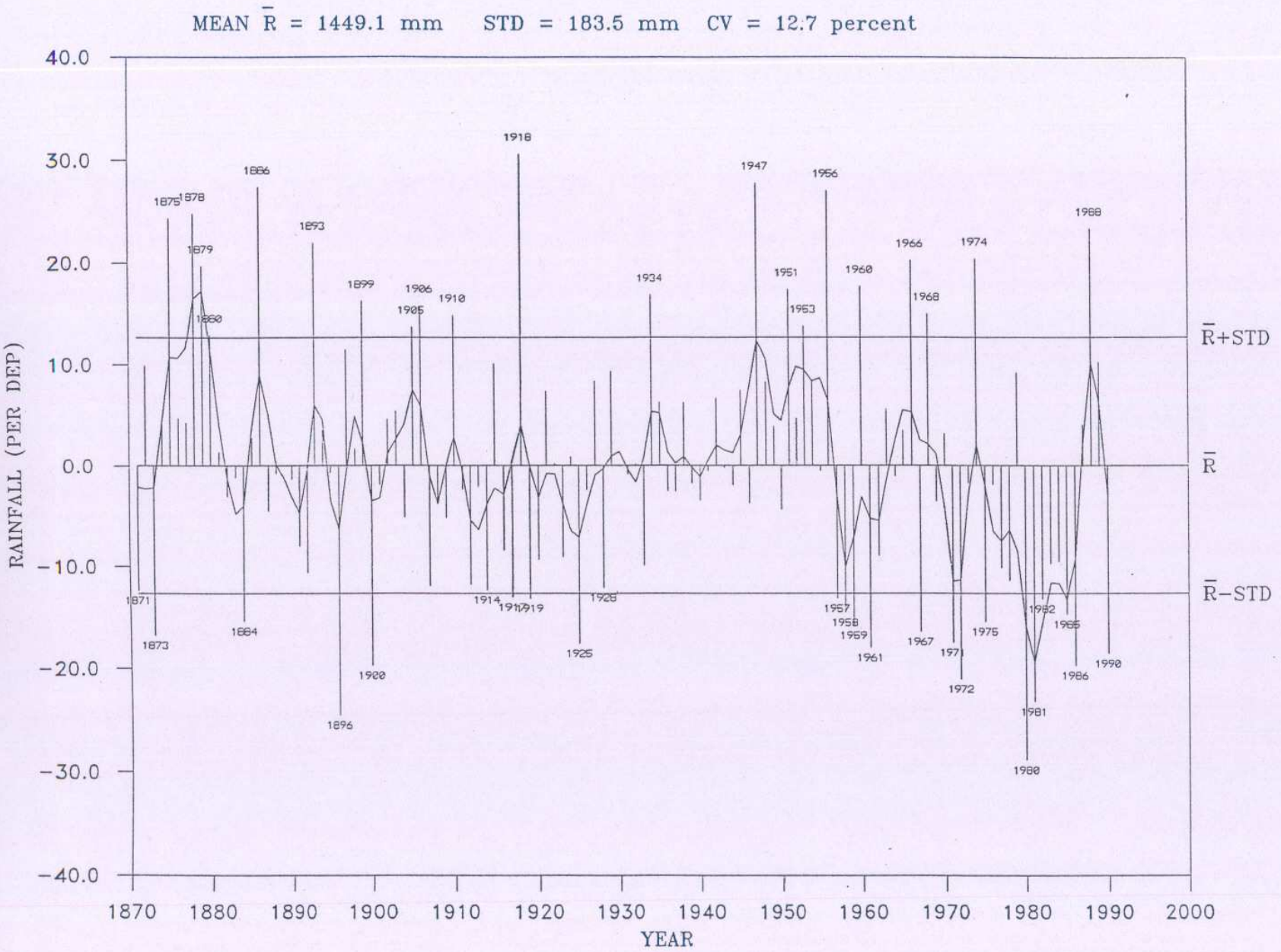
NORTH EAST REGION SUMMER MONSOON RAINFALL 1871-1990



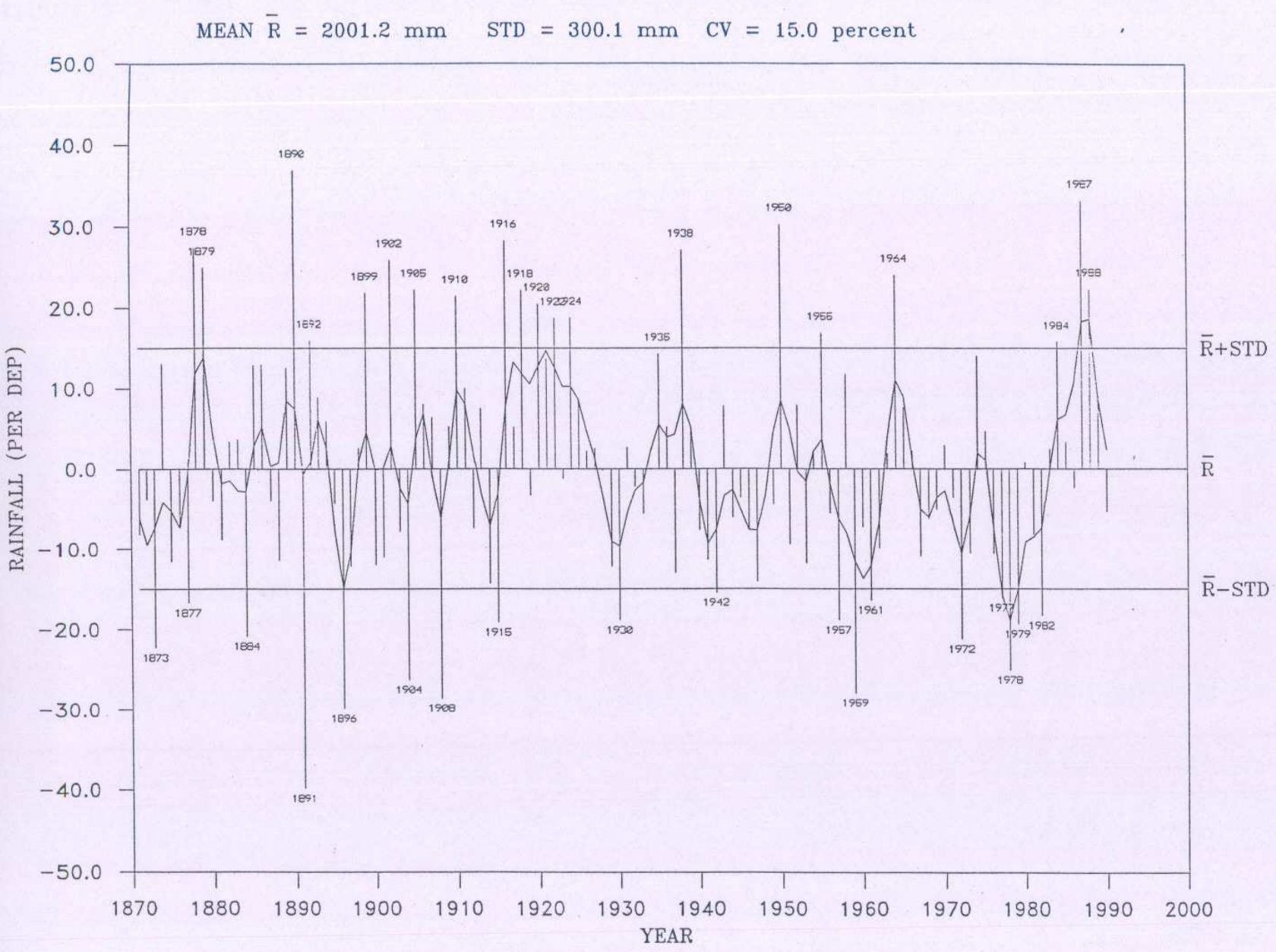
SOUTH PENINSULAR REGION SUMMER MONSOON RAINFALL 1871–1990



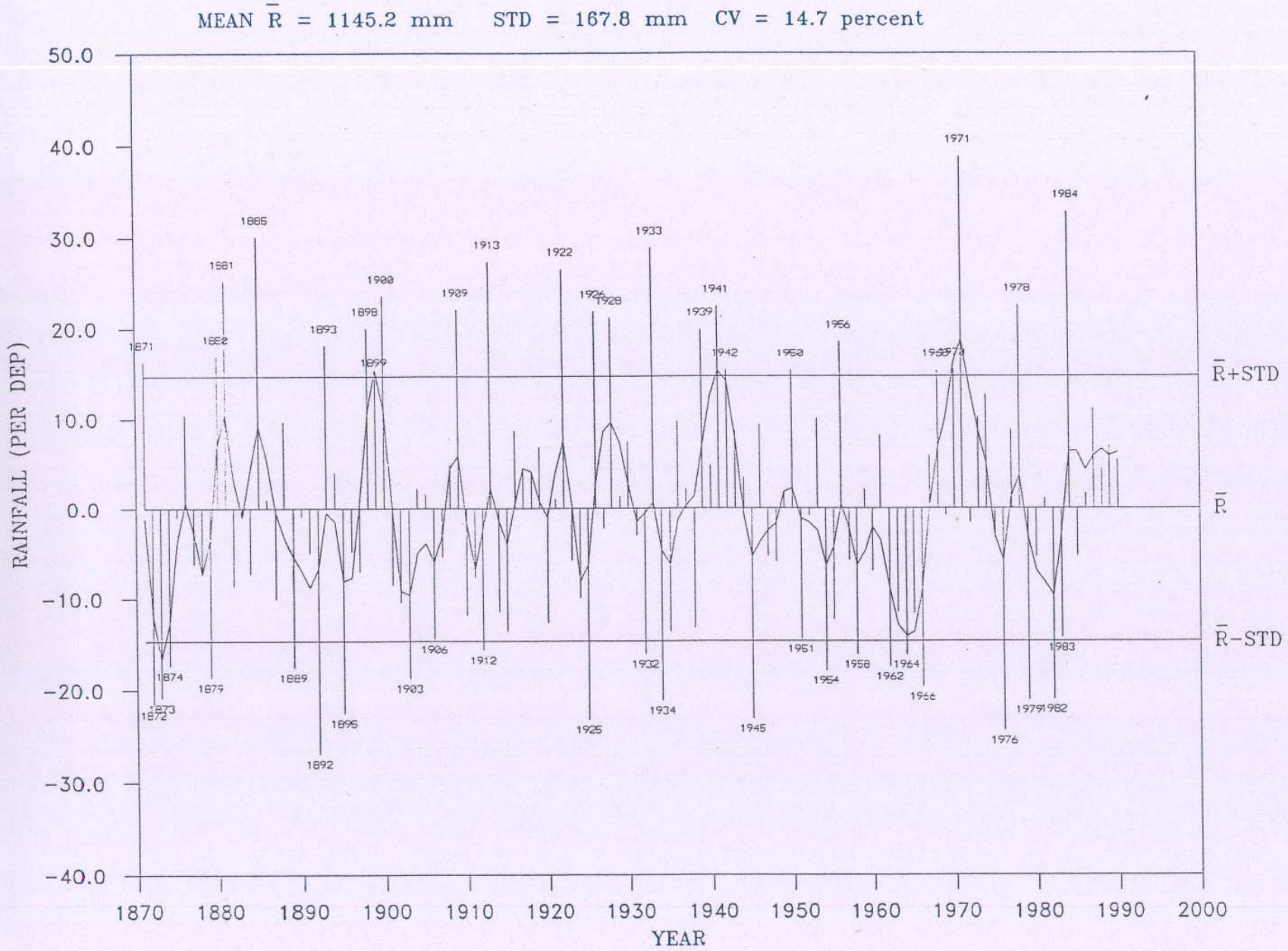
NORTH ASSAM SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



SOUTH ASSAM SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



S.H.WEST BENGAL SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990


MEAN R̄ = 1145.2 mm STD = 167.8 mm CV = 14.7 percent
RAINFALL (PER DEP)
50.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
1870
1880
1890
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
YEAR
R̄+STD
R̄
R̄-STD
1871
1872
1873
1874
1879
1881
1882
1885
1889
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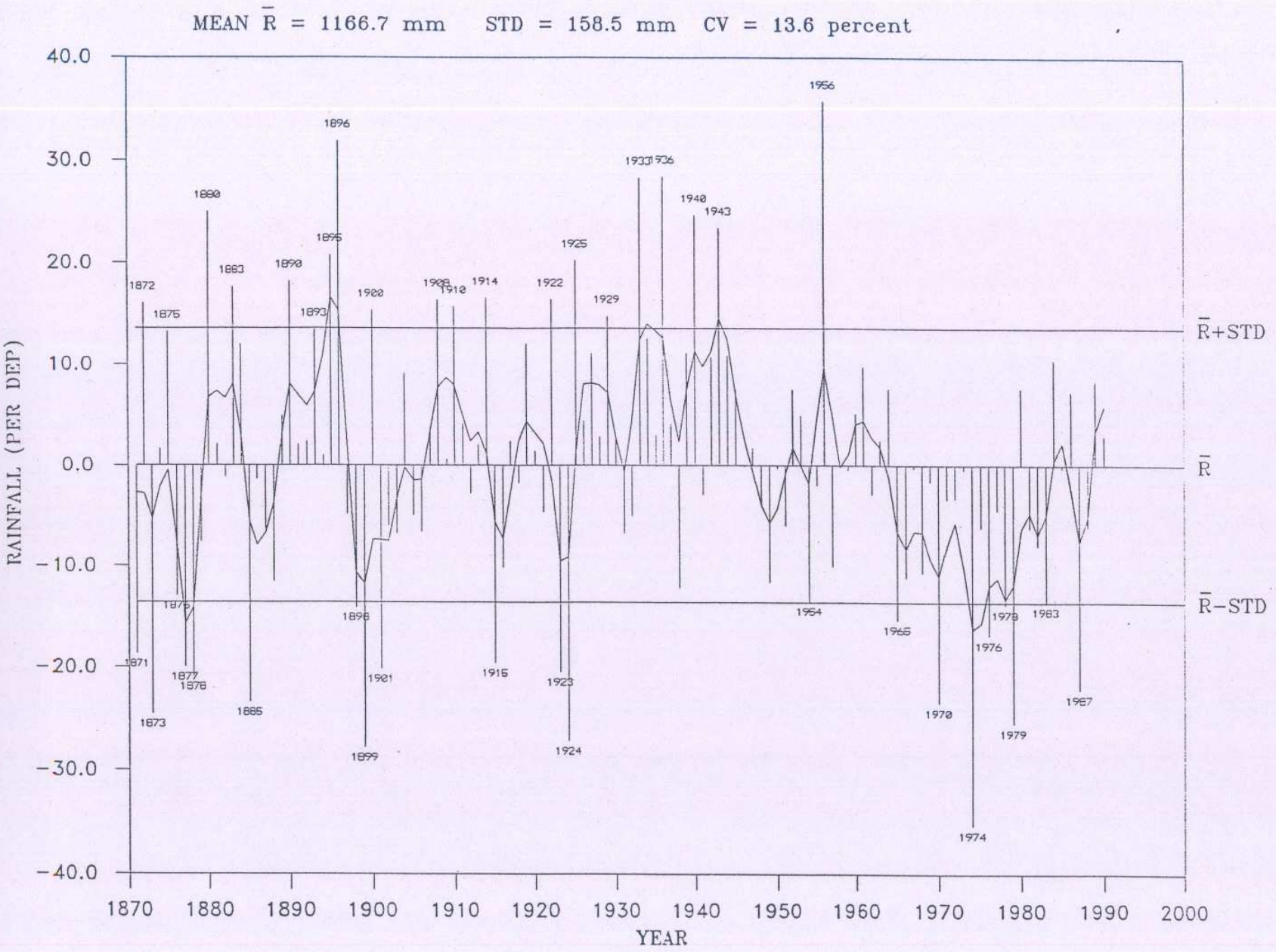
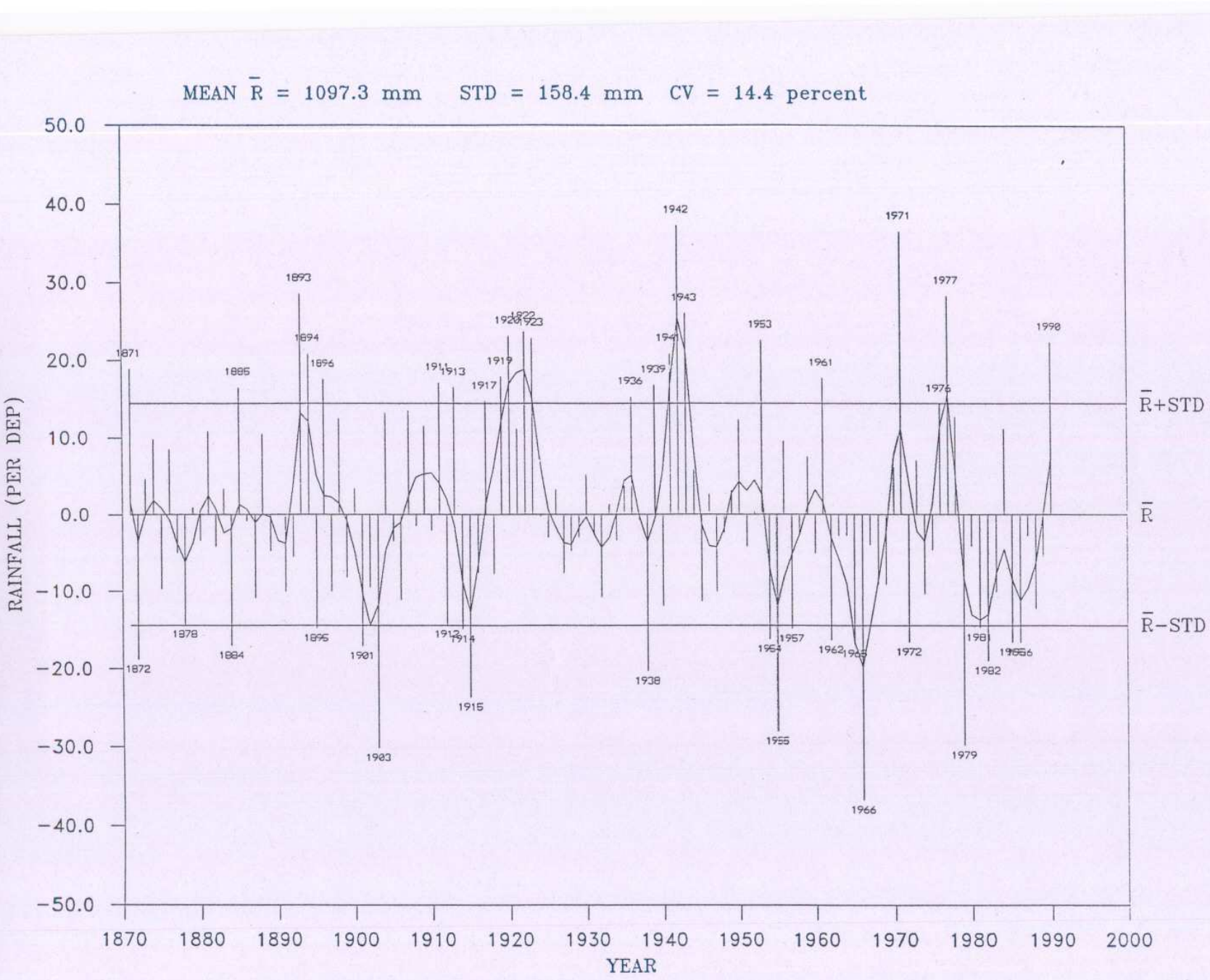
GANGETIC WEST BENGAL SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990

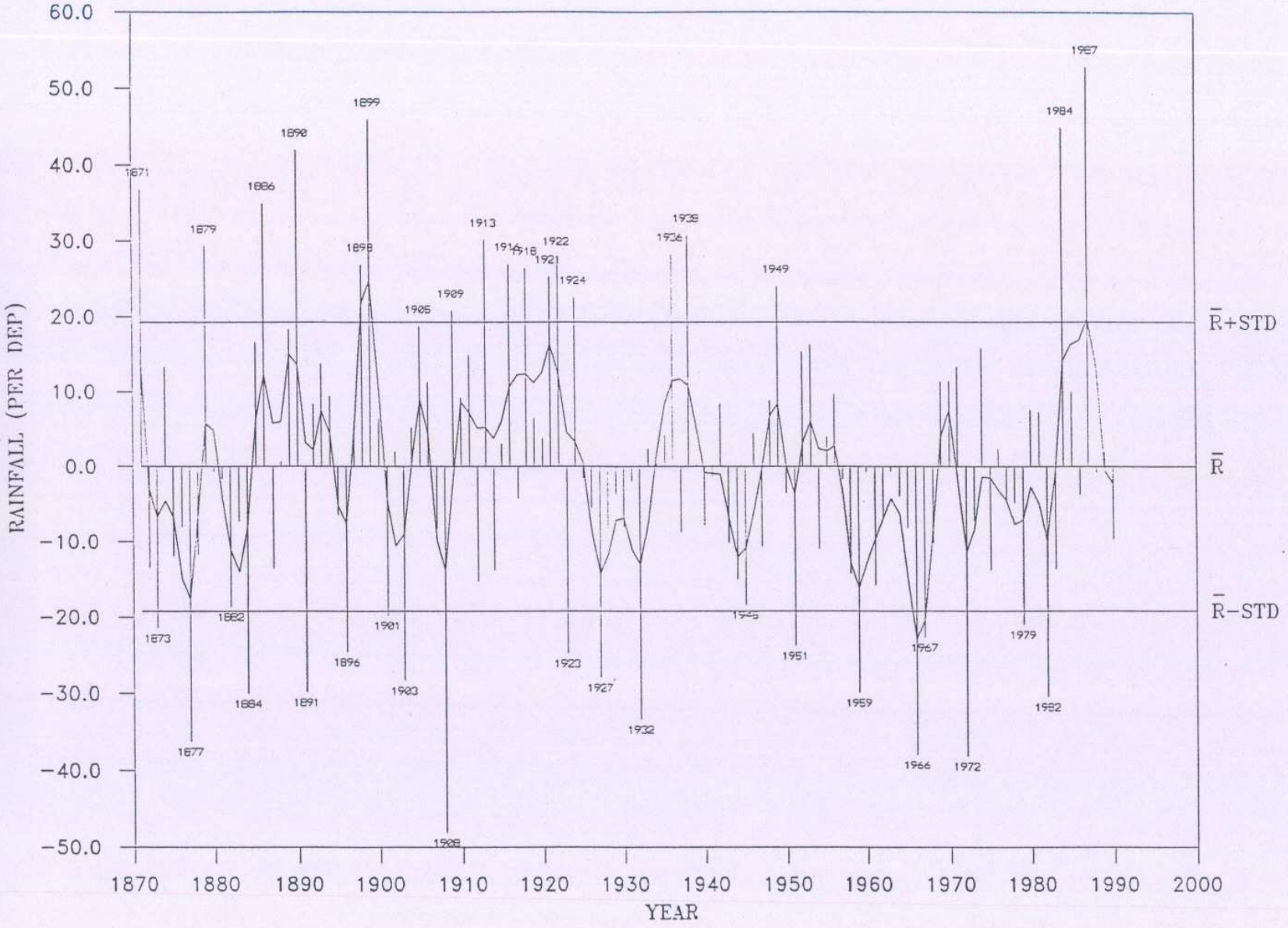


ORISSA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990

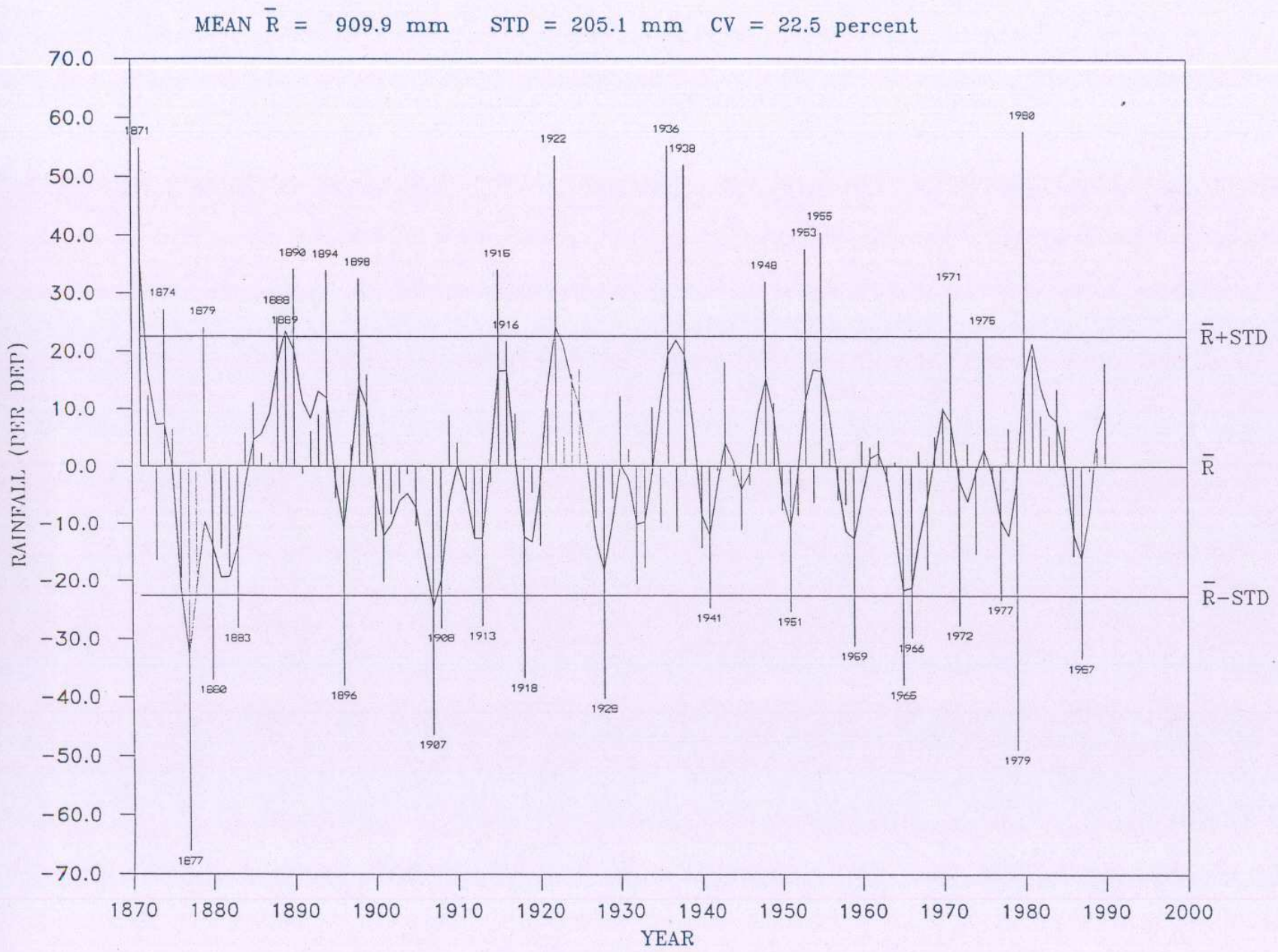


BIHAR PLATEAU SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990

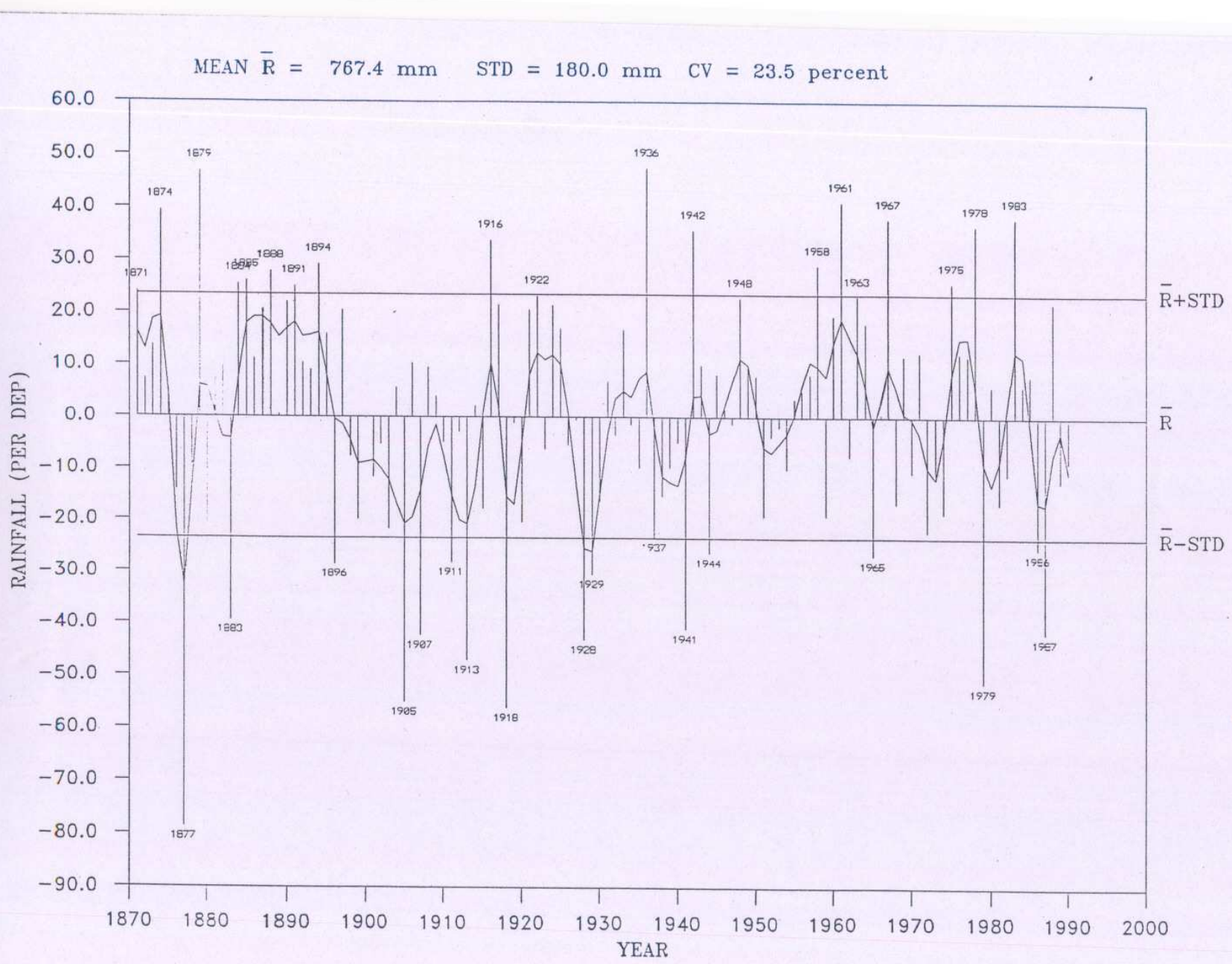
MEAN $\bar{R}$ = 1037.1 mm STD = 199.7 mm CV = 19.3 percent



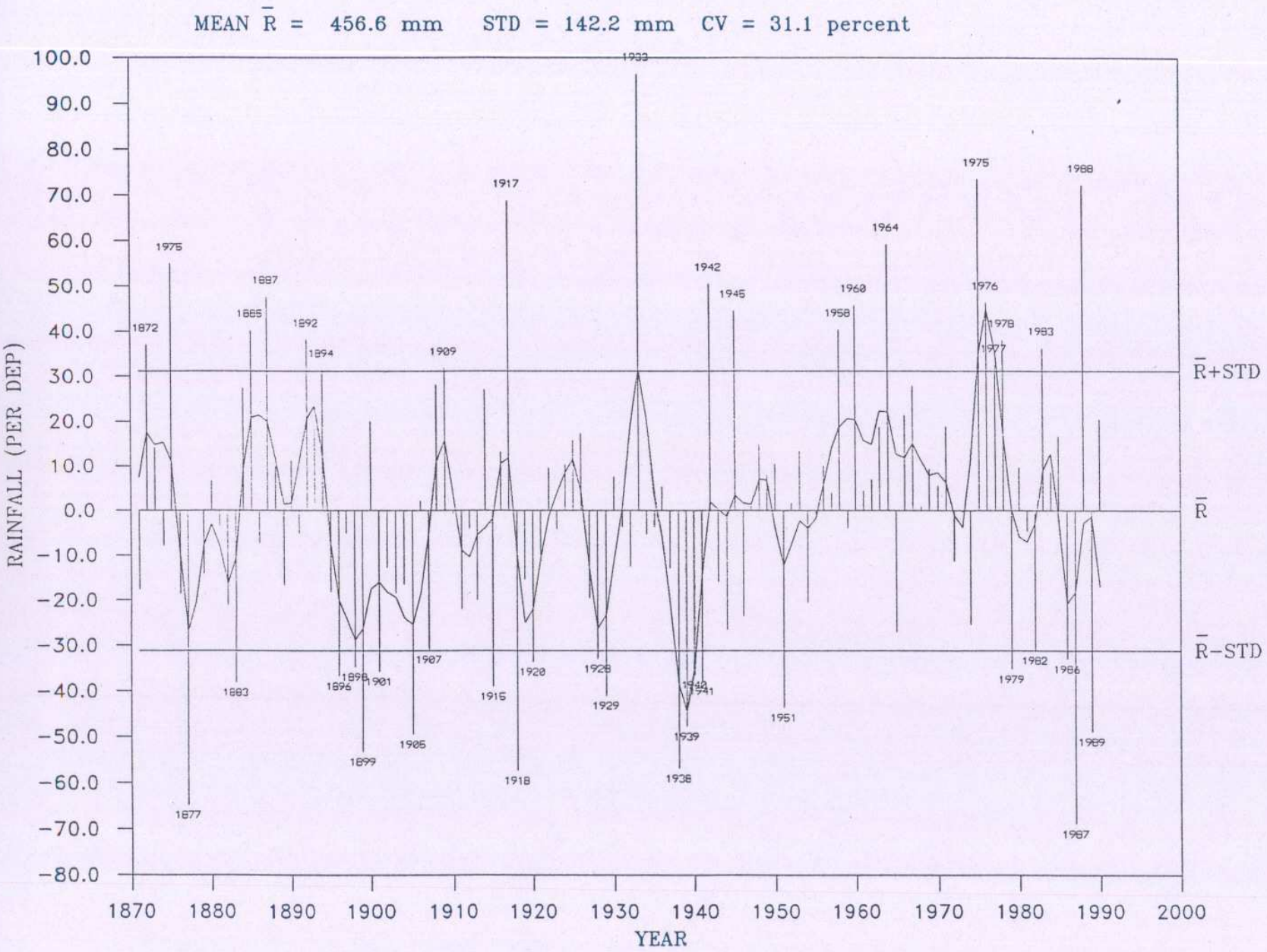
BIHAR PLAINS SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



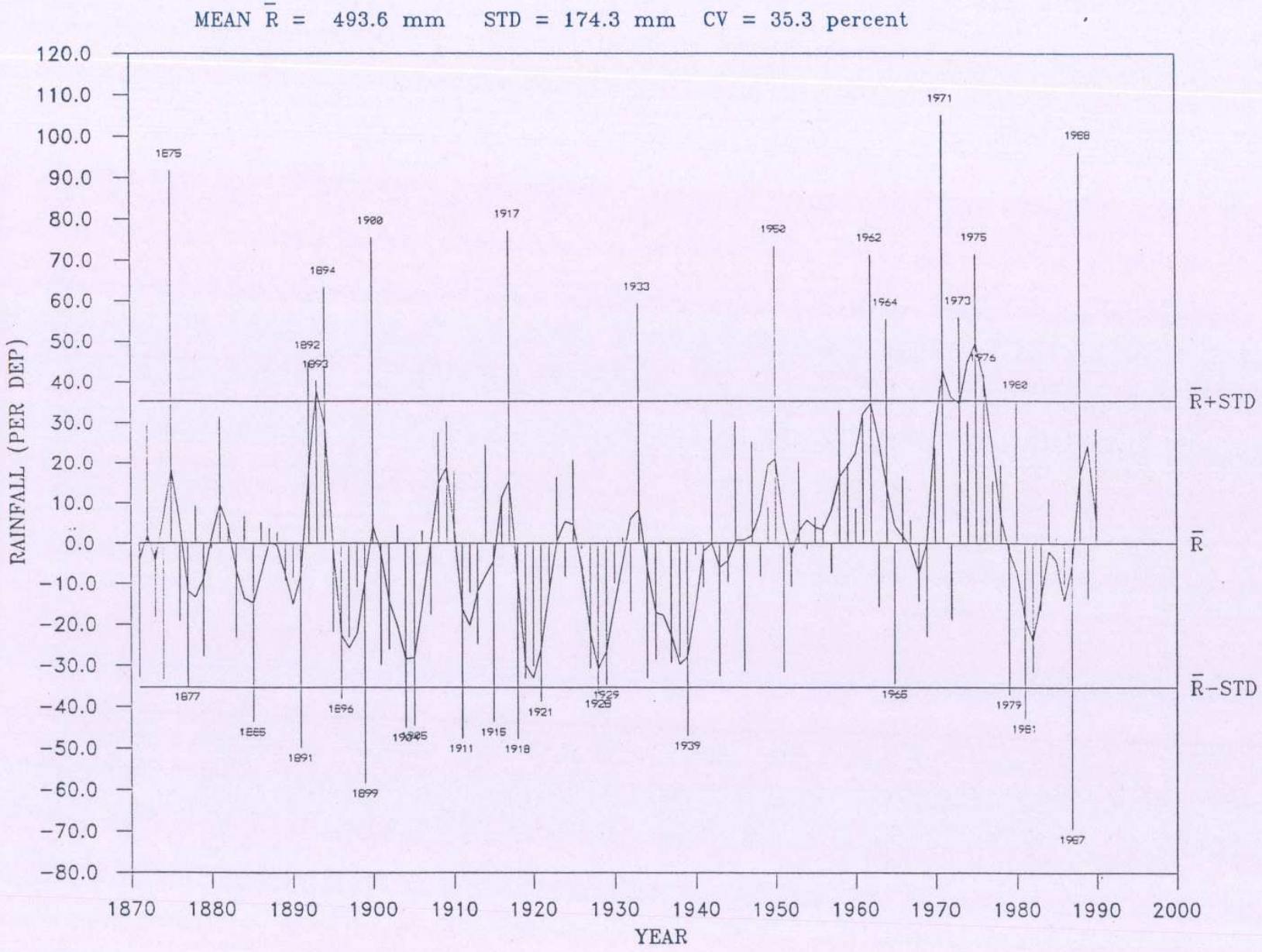
EAST UTTAR PRADESH SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



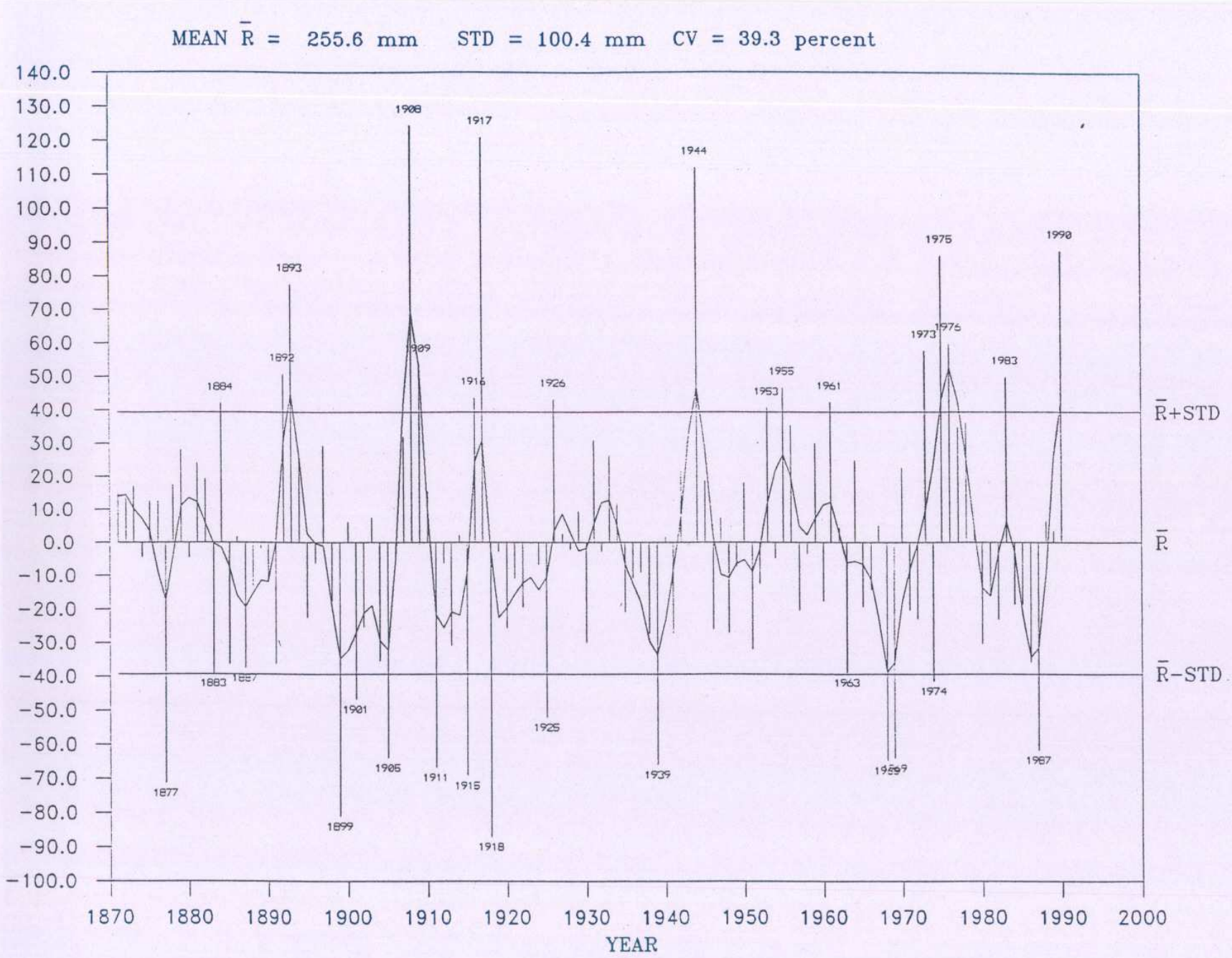
WEST U.P.PLAINS SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



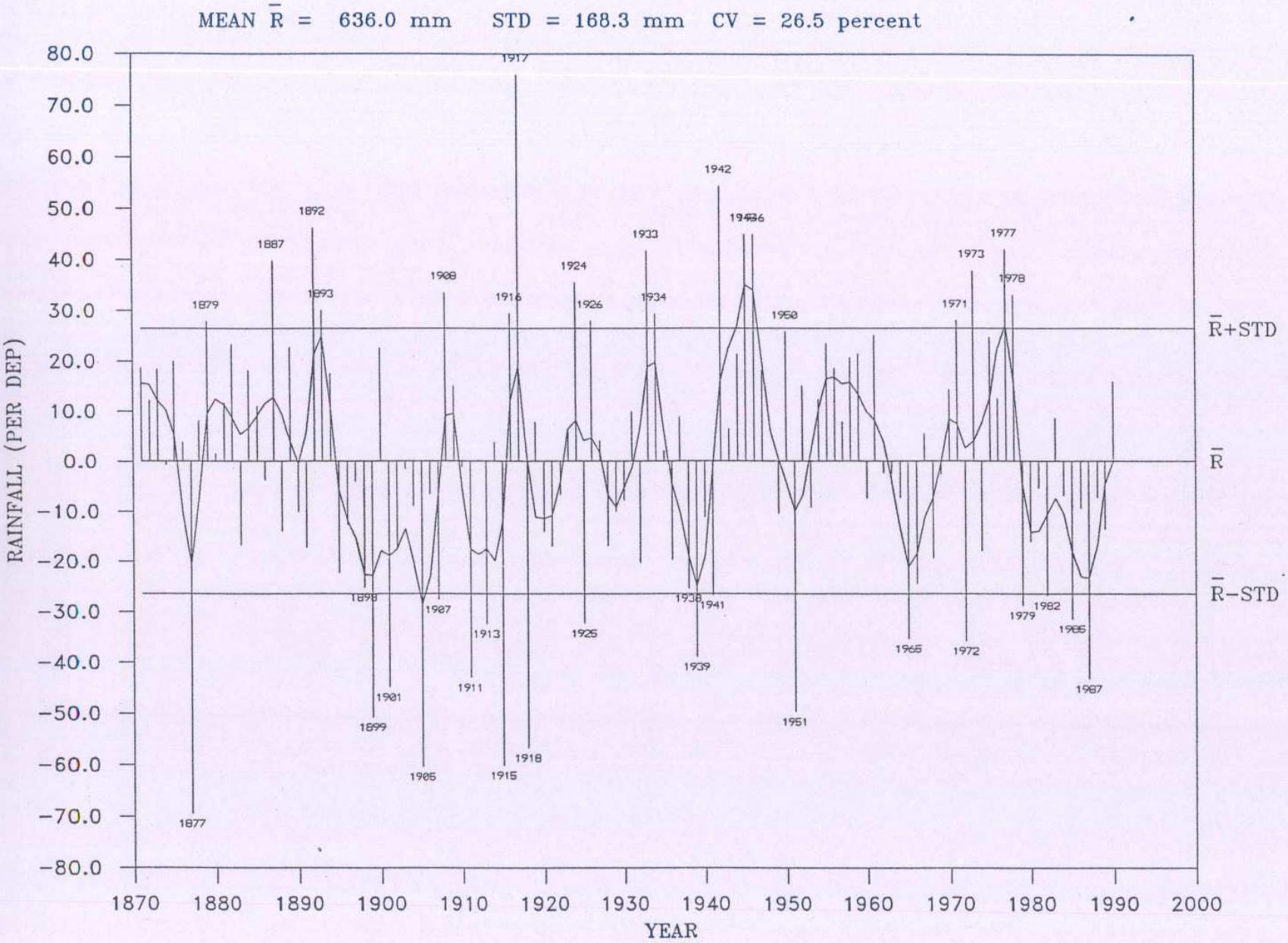
HARYANA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



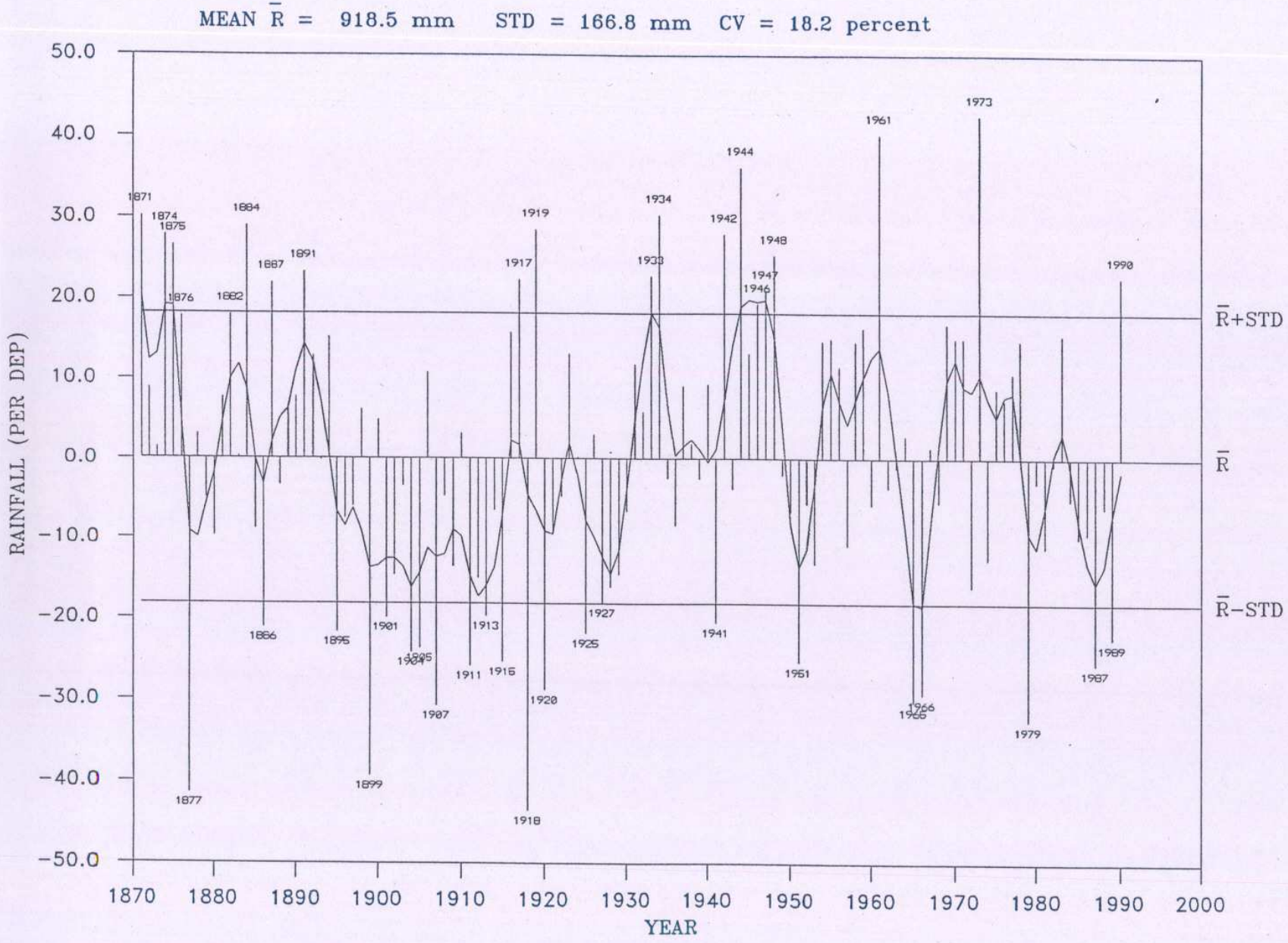
PUNJAB SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



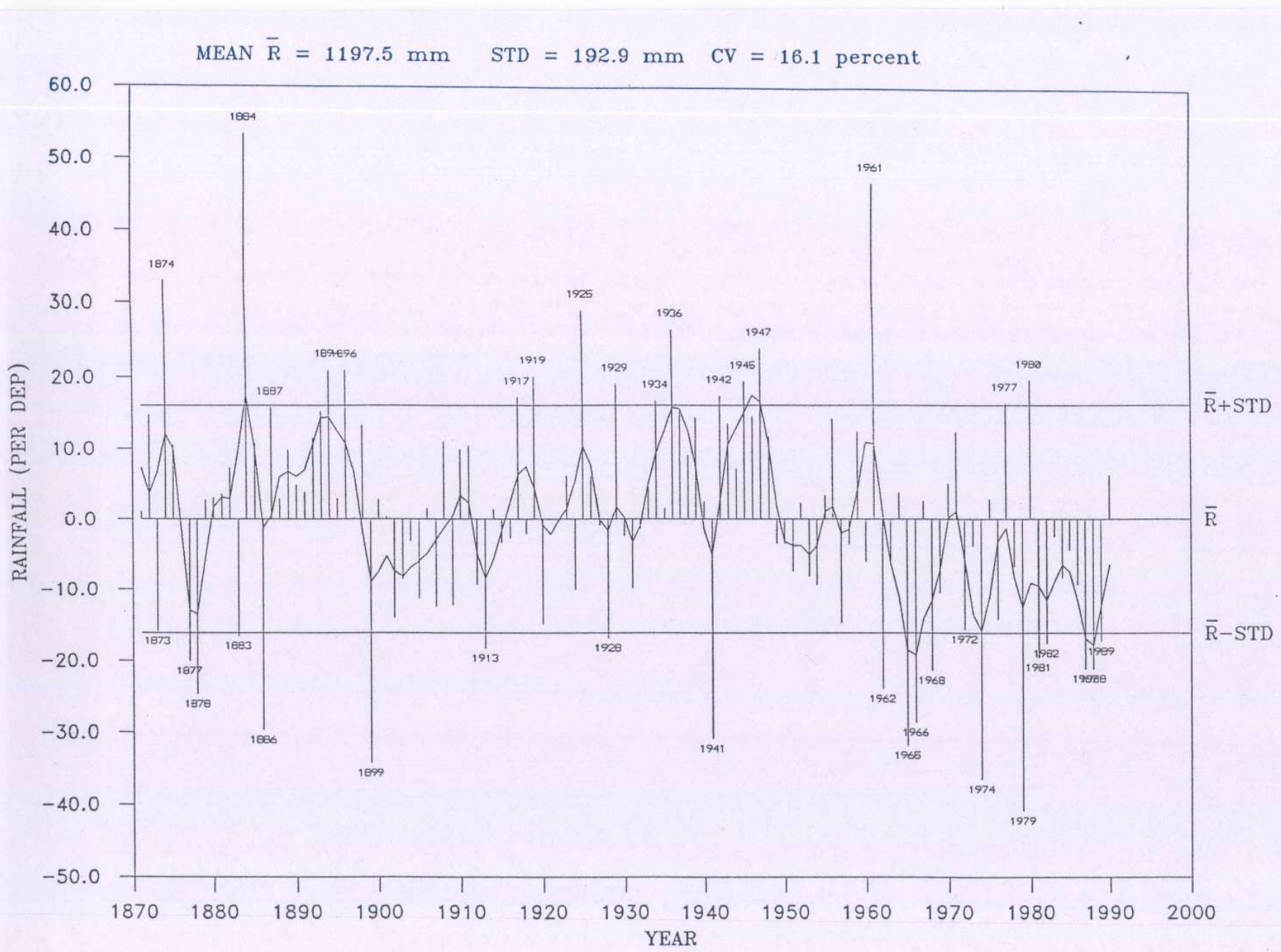
WEST RAJASTHAN SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



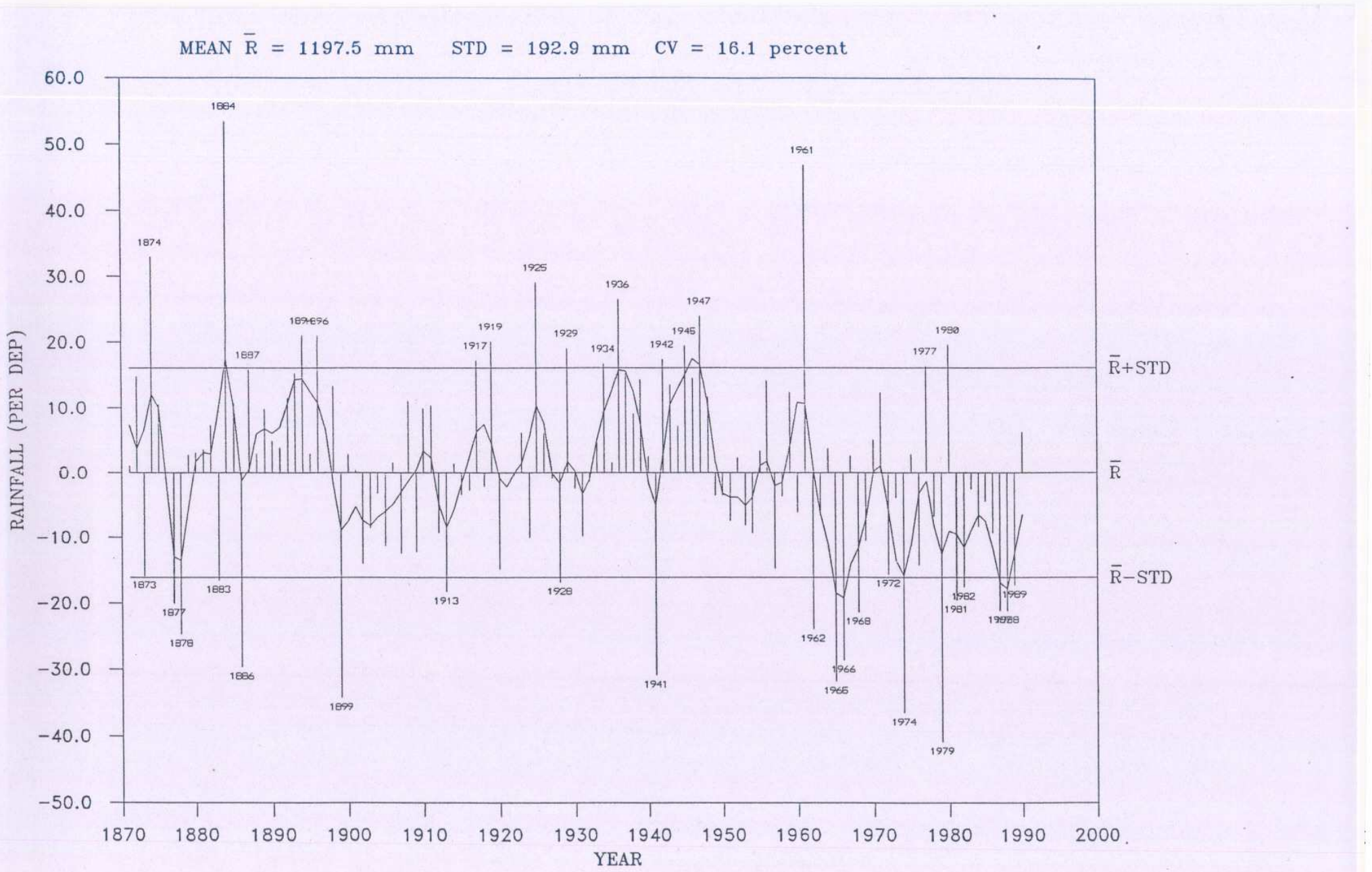
EAST RAJSTHAN SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



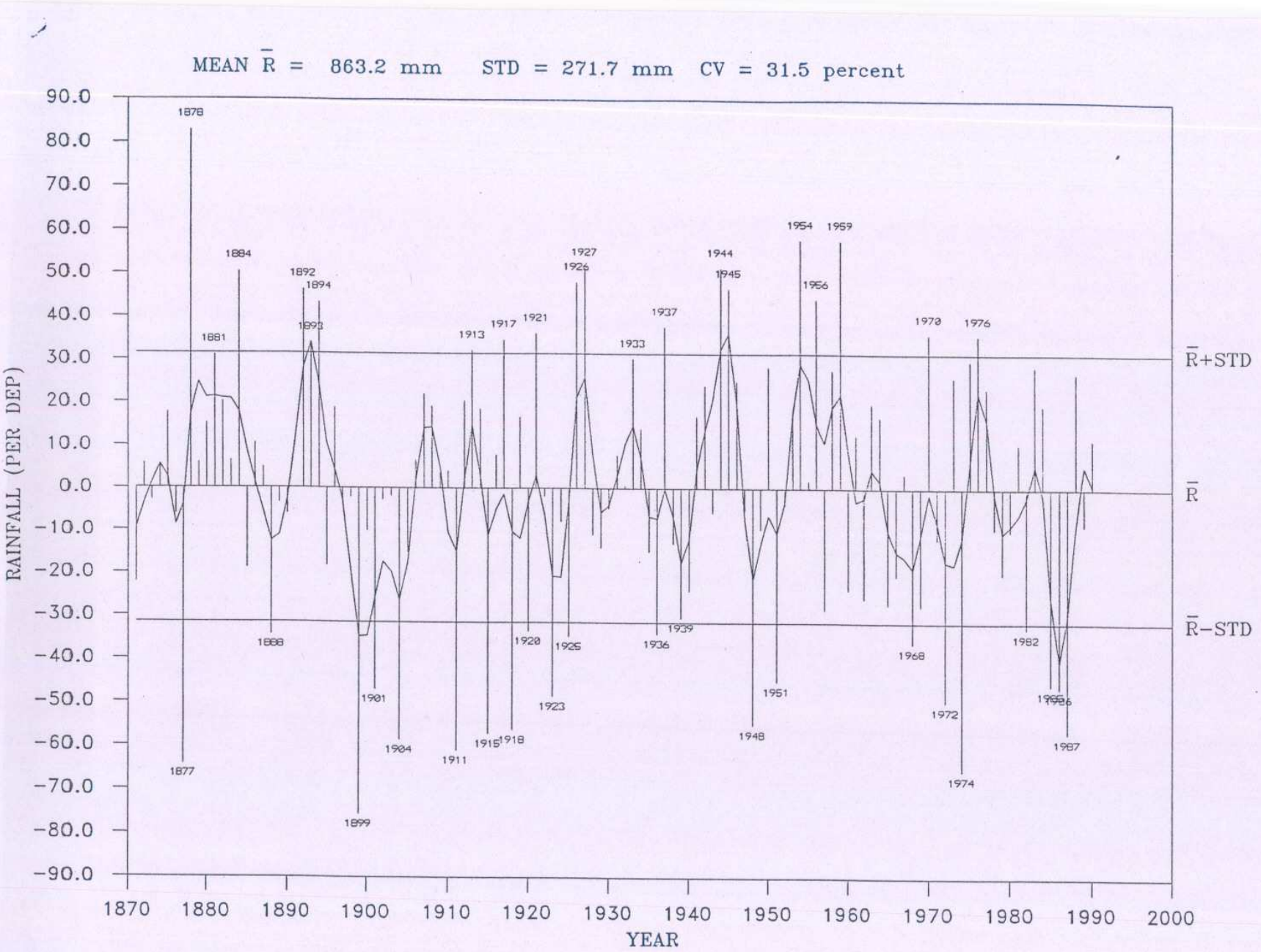
WEST M.P.SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



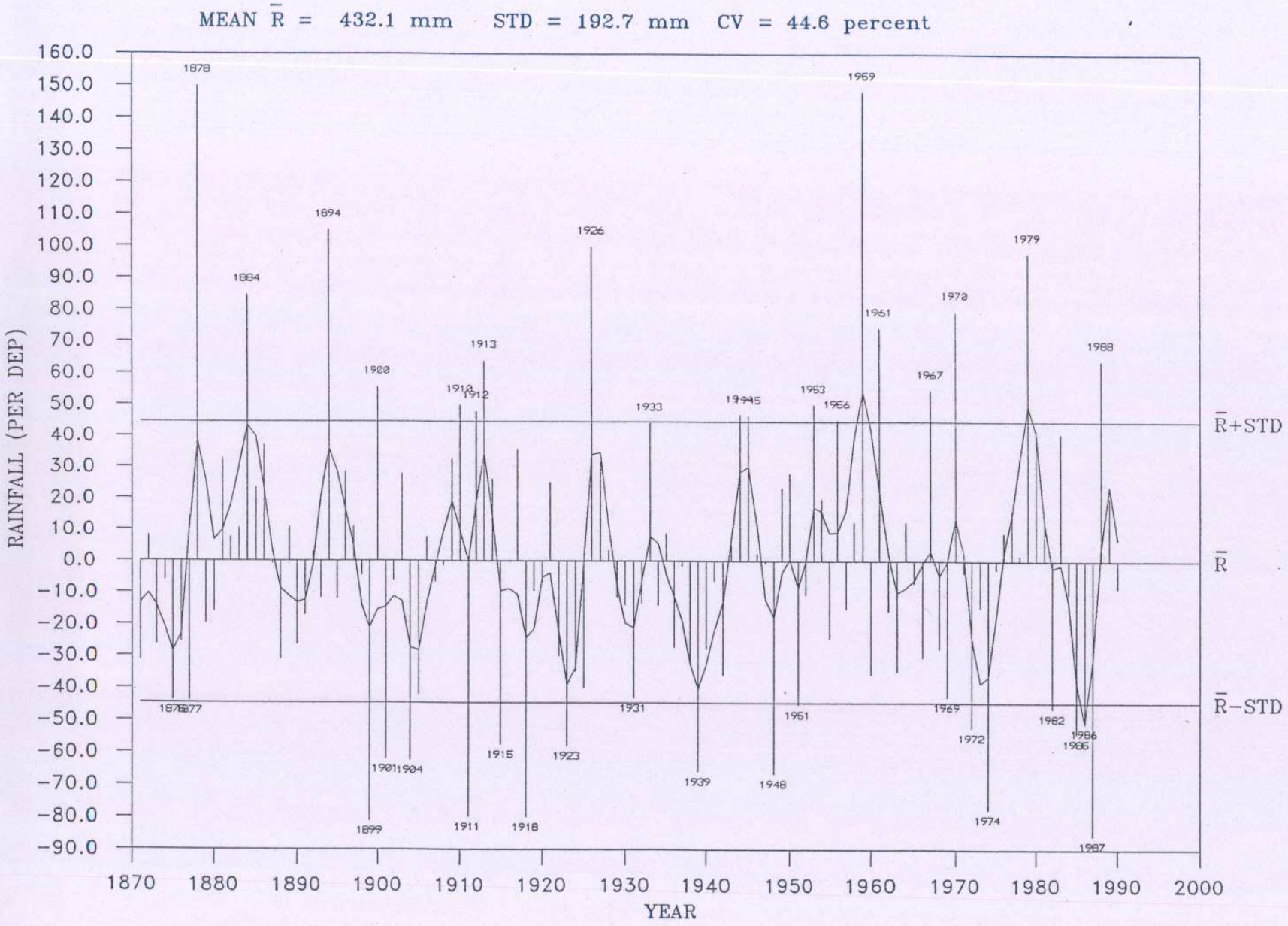
EAST MADHYA PRADESH SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



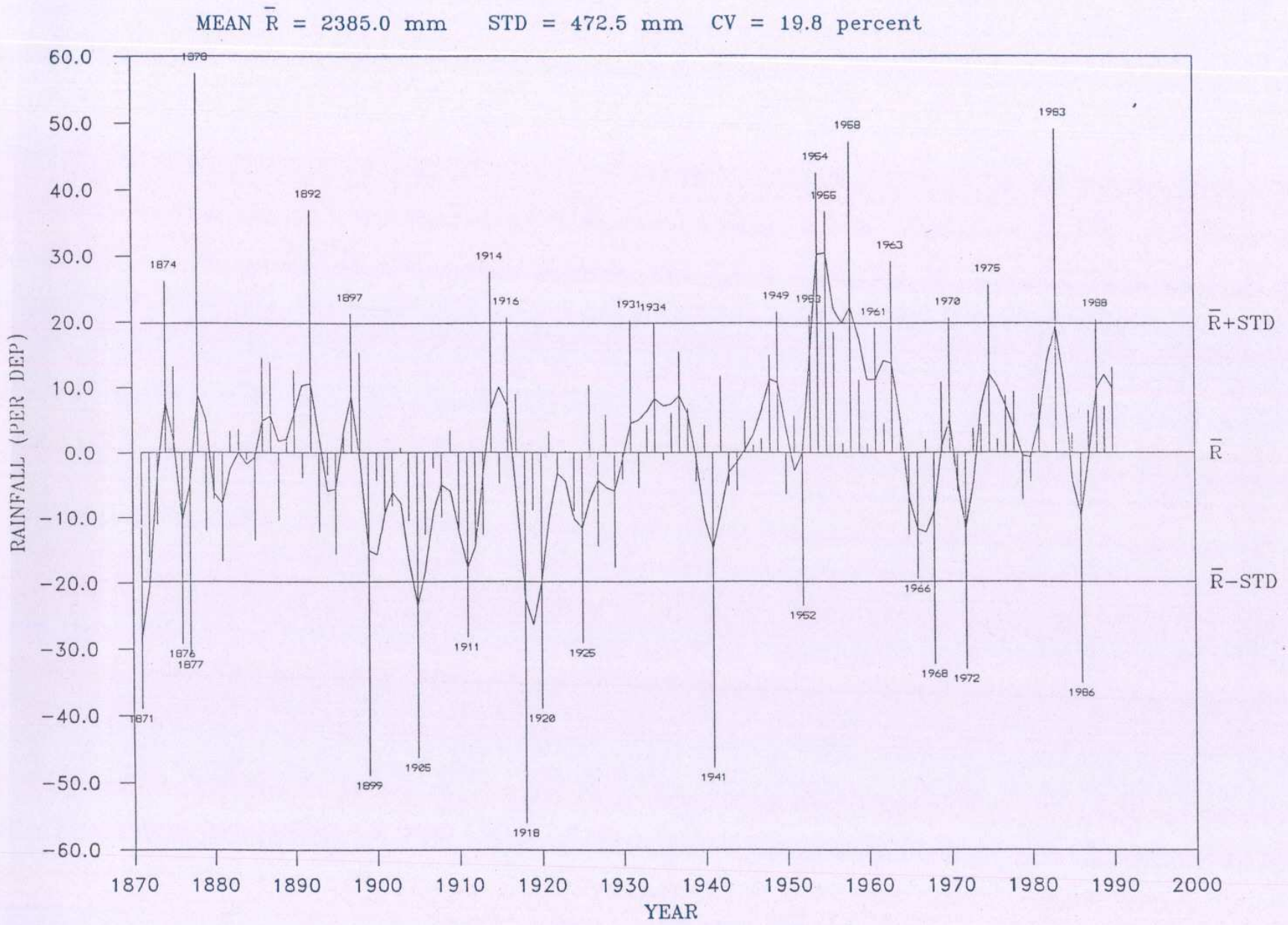
EAST MADHYA PRADESH SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



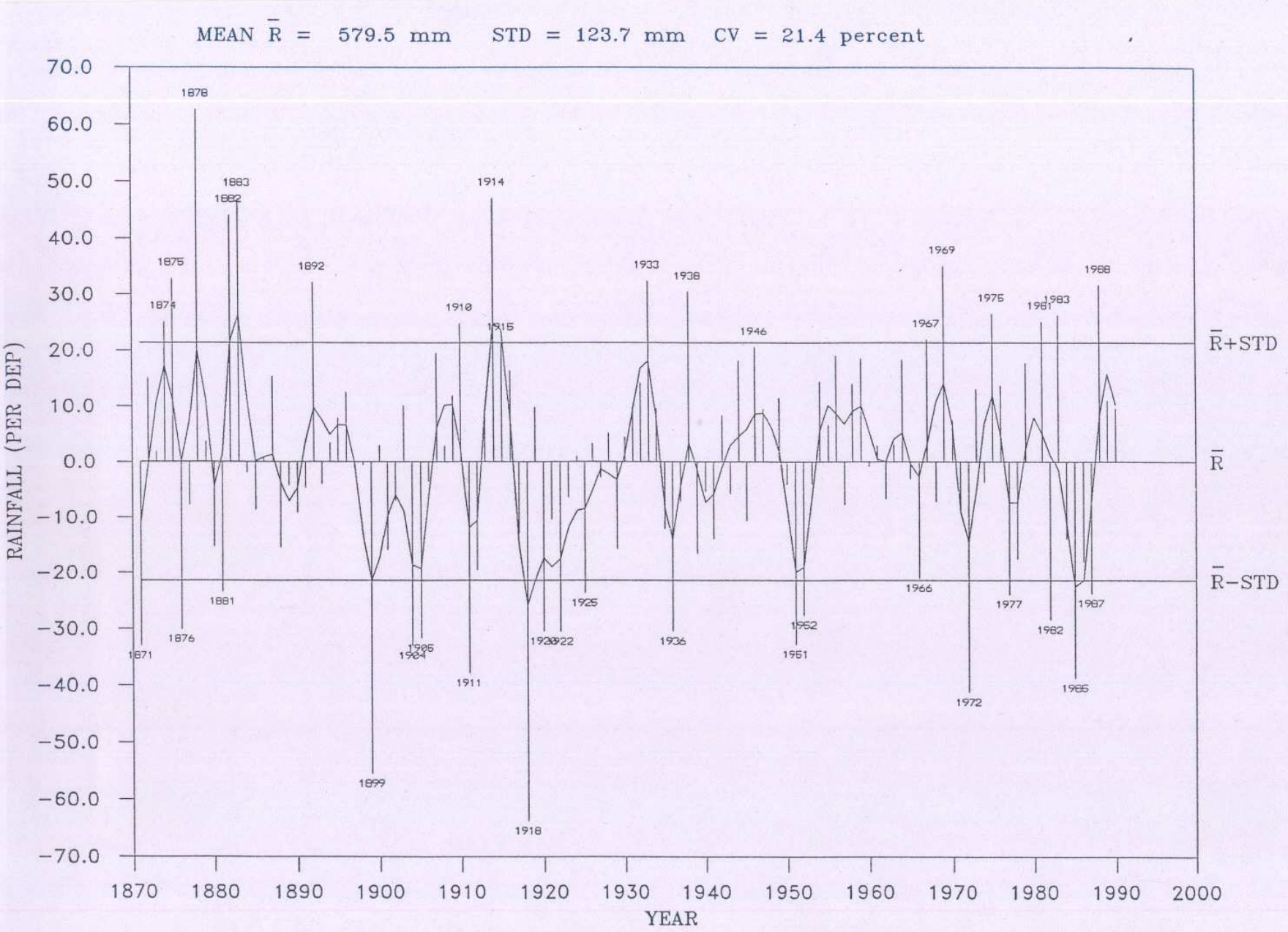
GUJRAT SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990

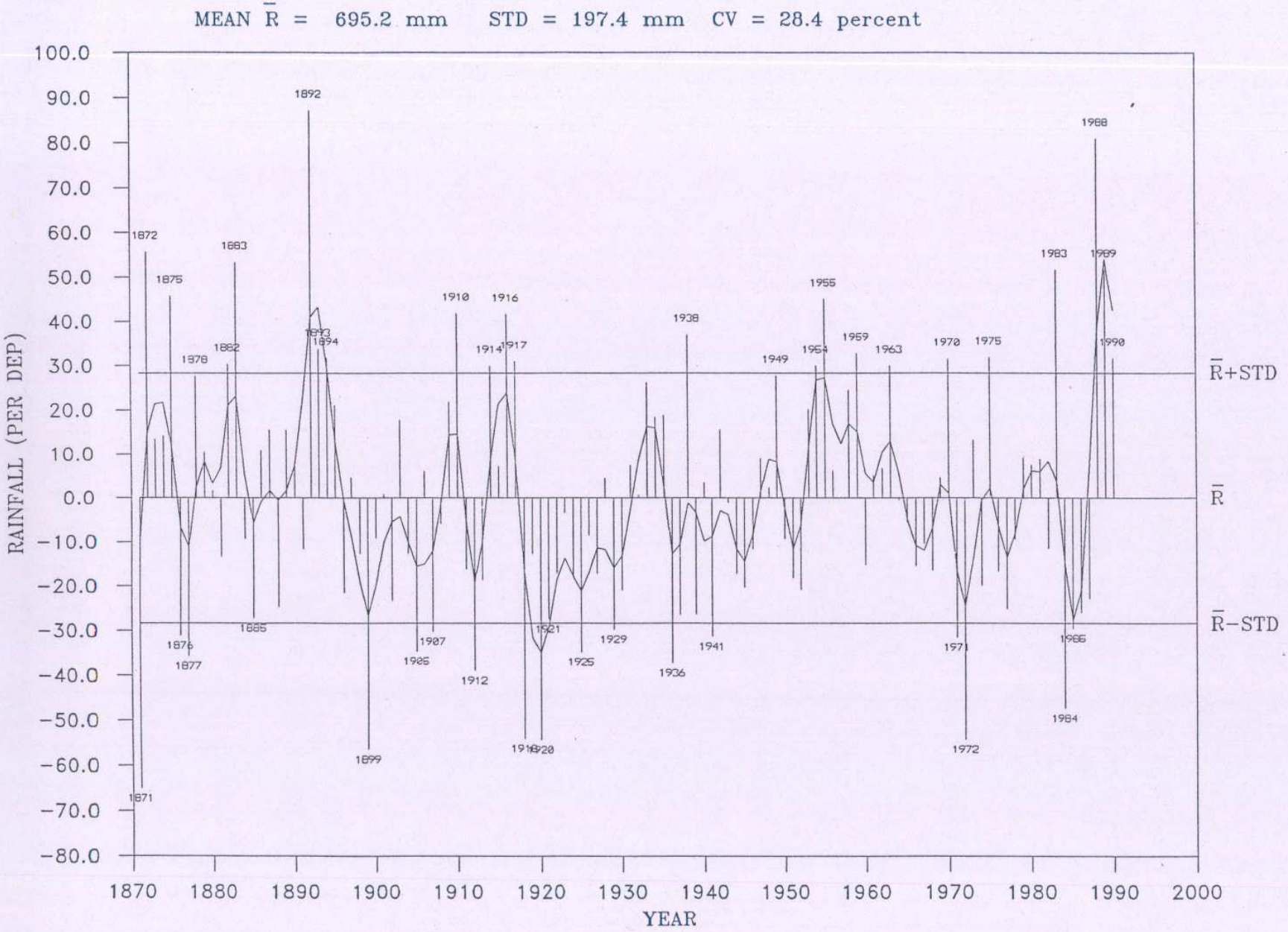


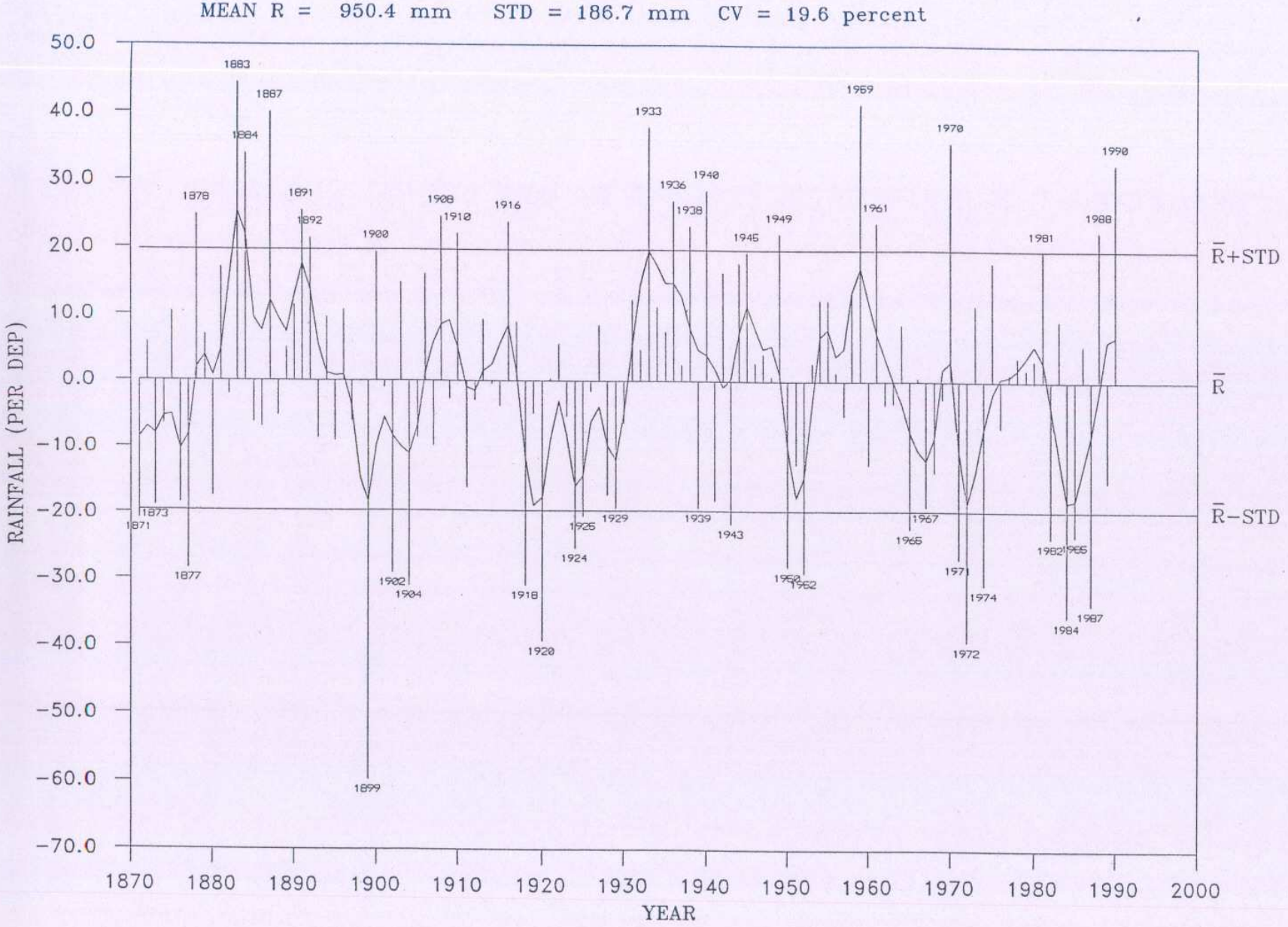
SAURASHTRA AND KUTCH SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



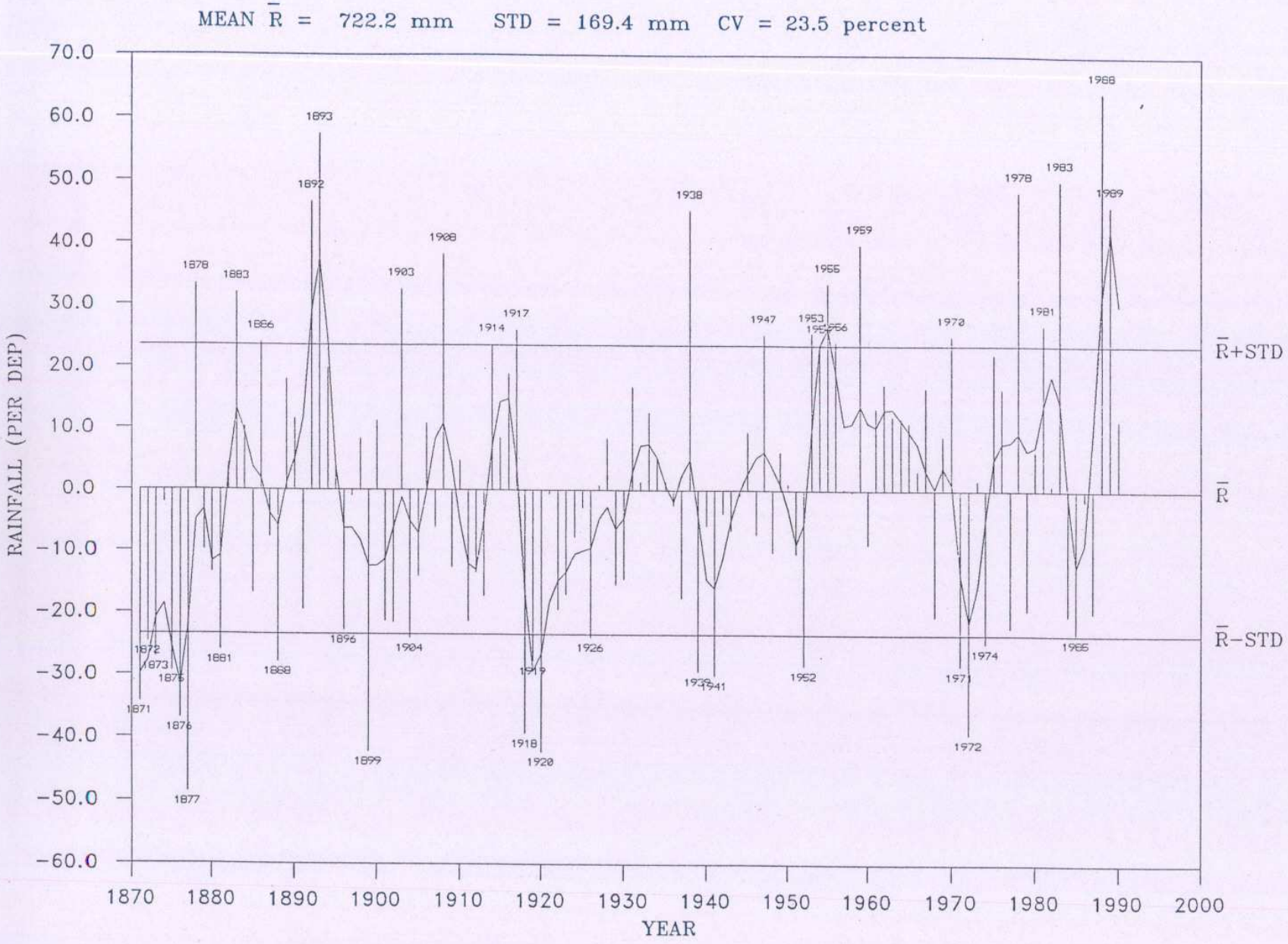
KONKAN AND GOA SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990


MEAN R̄ = 579.5 mm STD = 123.7 mm CV = 21.4 percent
RAINFALL (PER DEP)
YEAR
R̄+STD
R̄
R̄−STD
MADHYA MAHARASHTRA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990

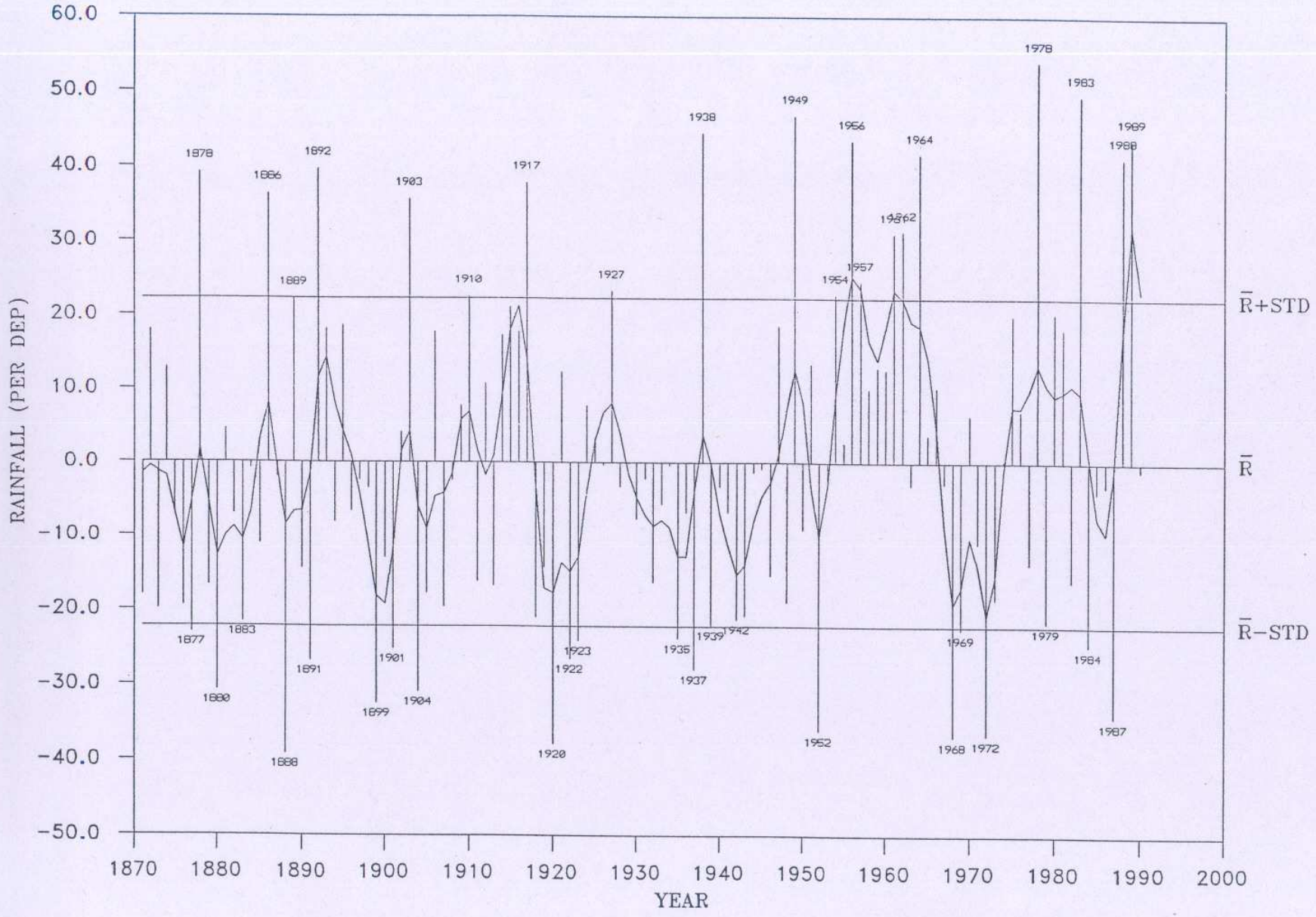

MEAN R̄ = 695.2 mm STD = 197.4 mm CV = 28.4 percent
RAINFALL (PER DEP)
YEAR
R̄+STD
R̄
R̄−STD
MARATHWADA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



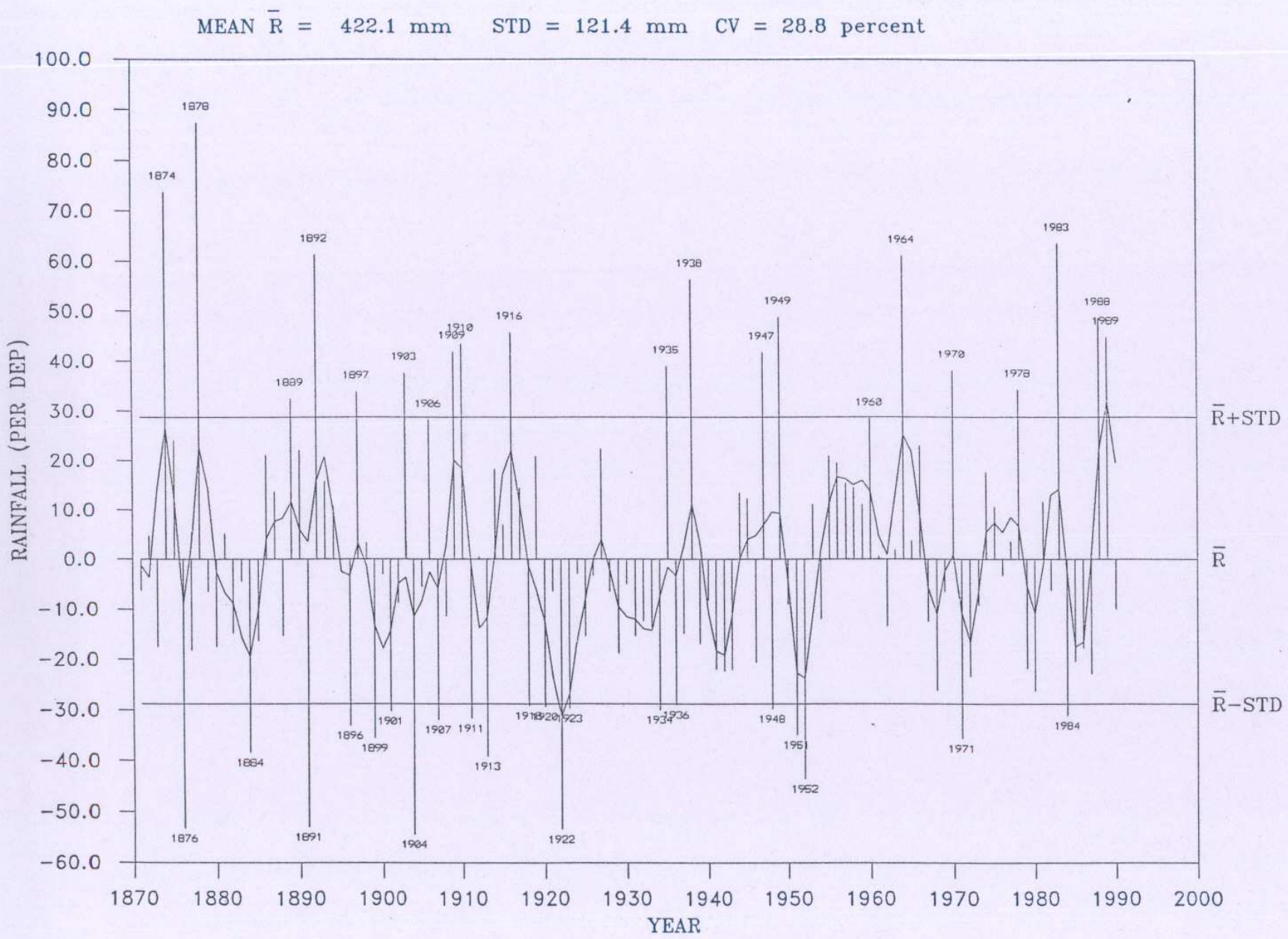
VIDARBHA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



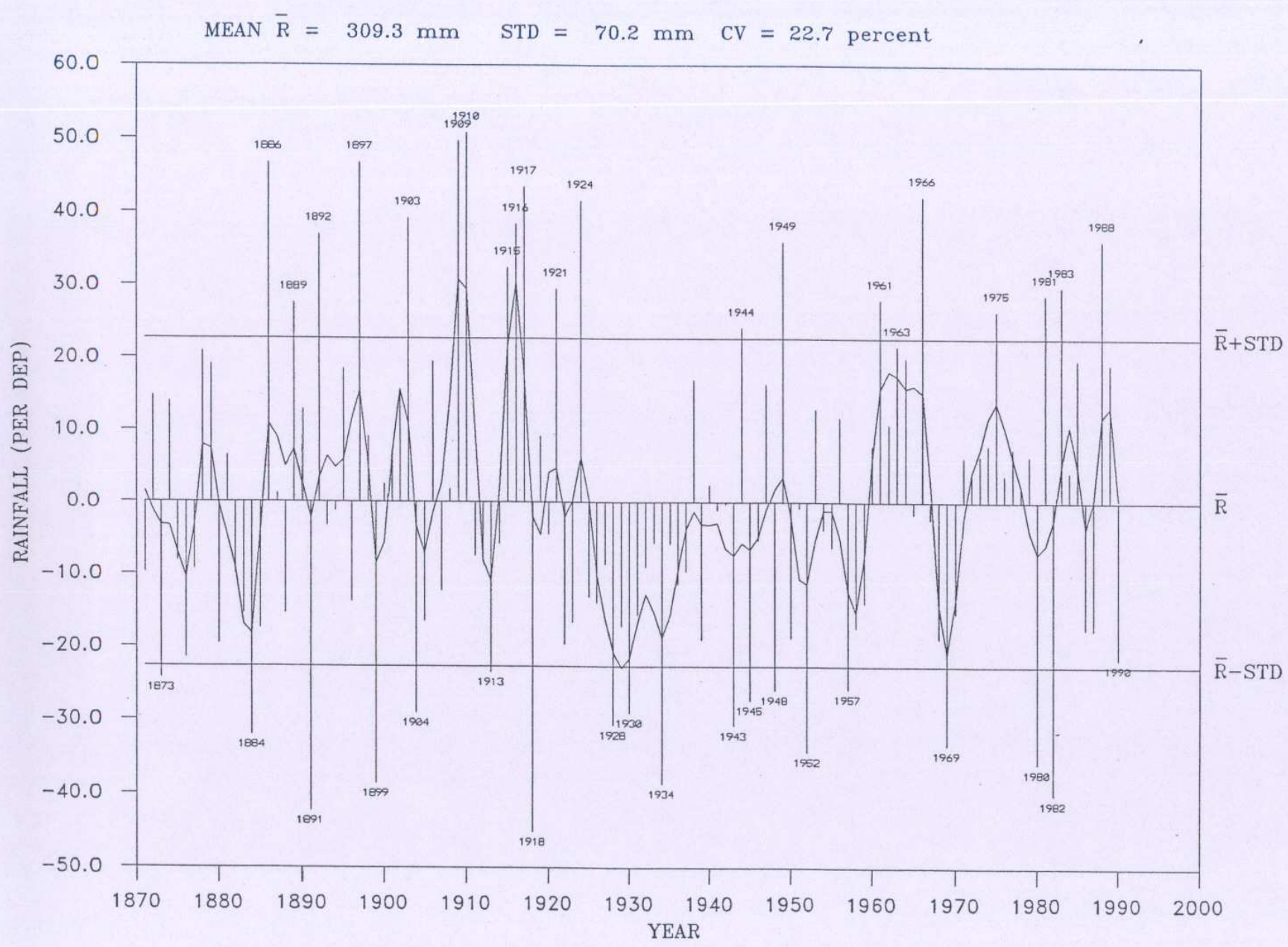
TELANGANA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



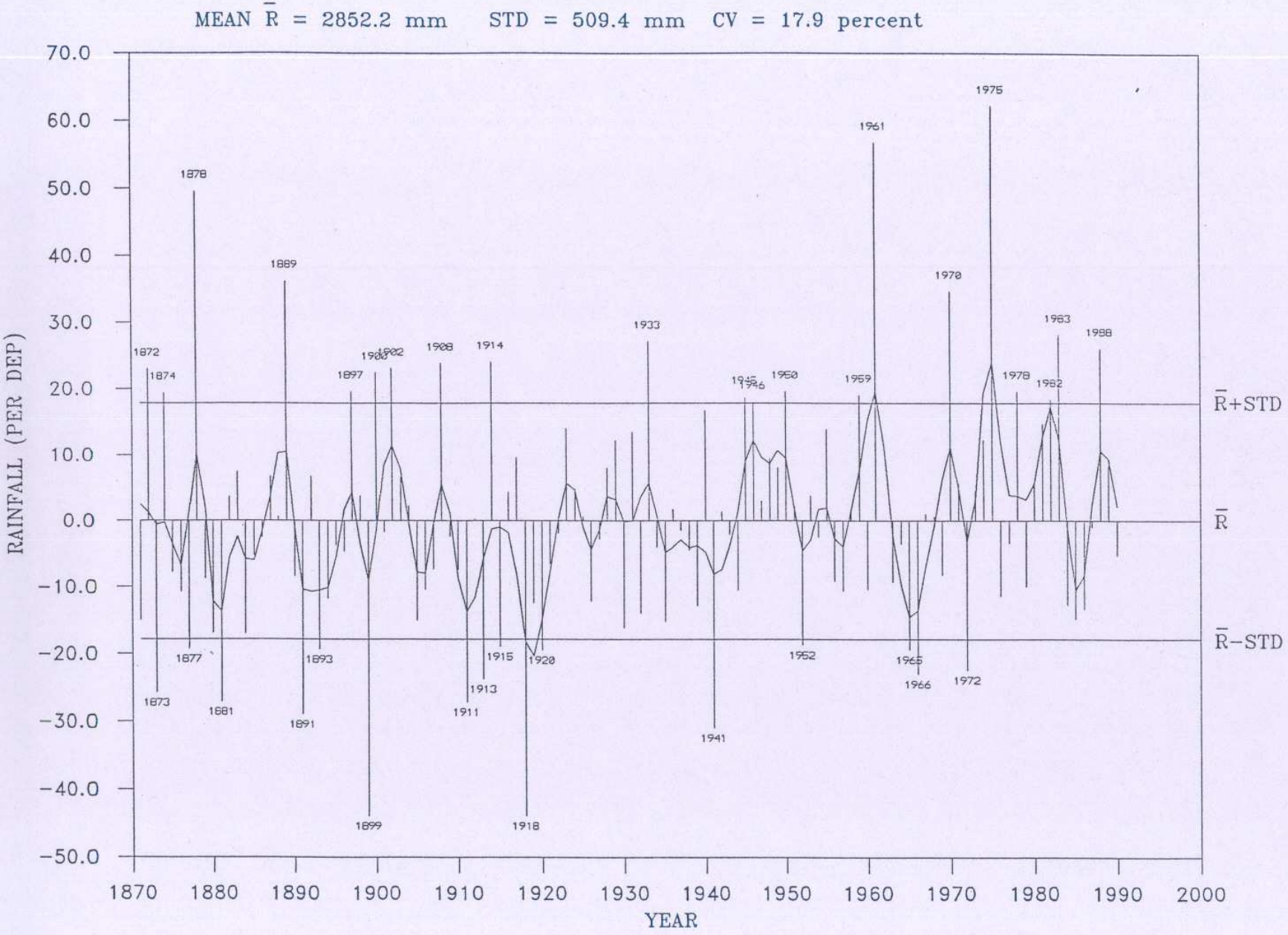
COASTAL ANDHRA PRADESH SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



RAYALASEEMA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



TAMILNADU SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990


MEAN R̄ = 2852.2 mm STD = 509.4 mm CV = 17.9 percent
RAINFALL (PER DEP)
YEAR
R̄+STD
R̄
R̄−STD
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
−10.0
−20.0
−30.0
−40.0
−50.0
1870
1880
1890
1900
1910
1920
1930
1940
1950
1960
1970
1980
1990
2000
1872
1873
1874
1877
1878
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1914
1915
1918
1920
1933
1941
1945
1946
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1966
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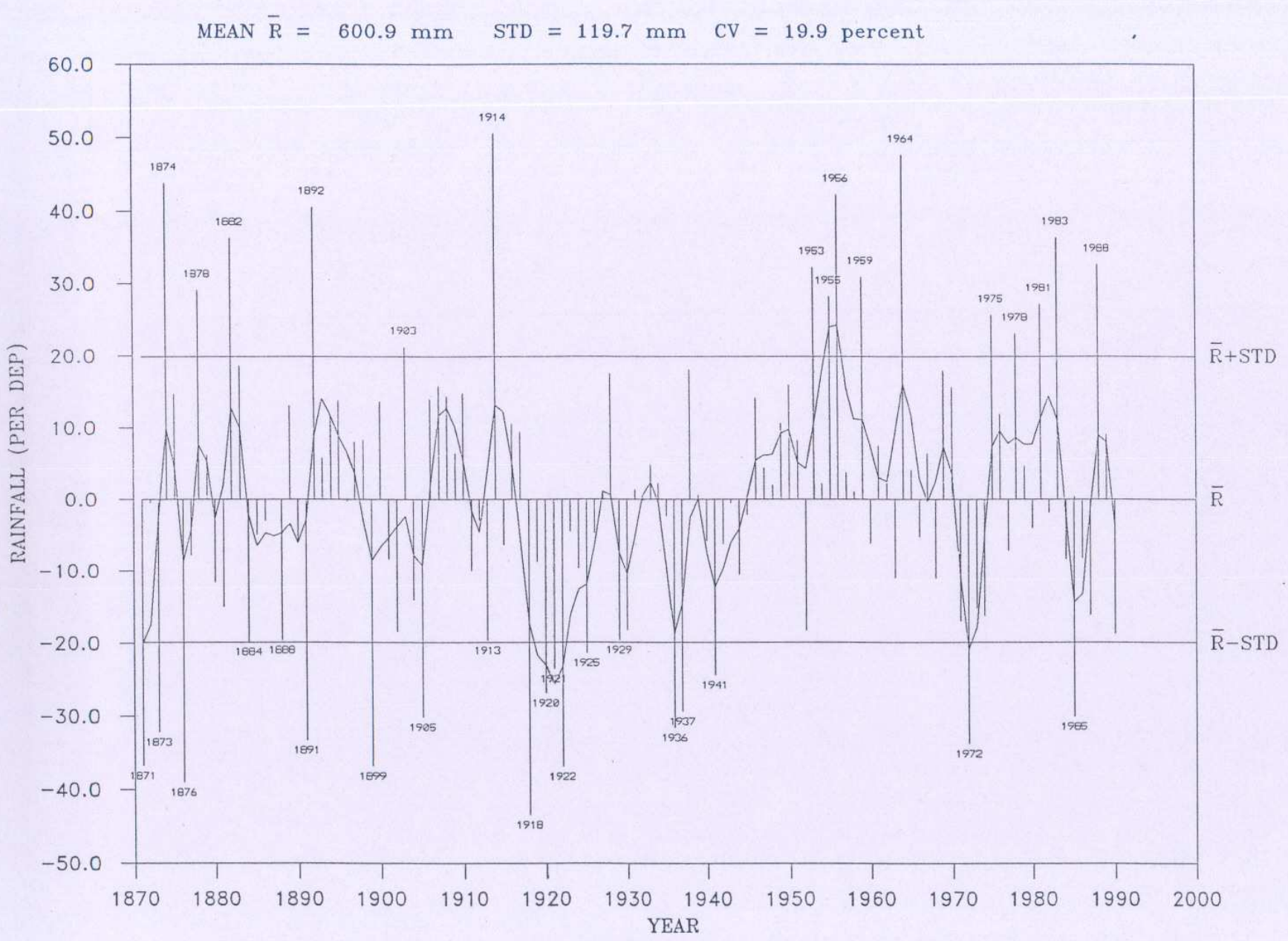
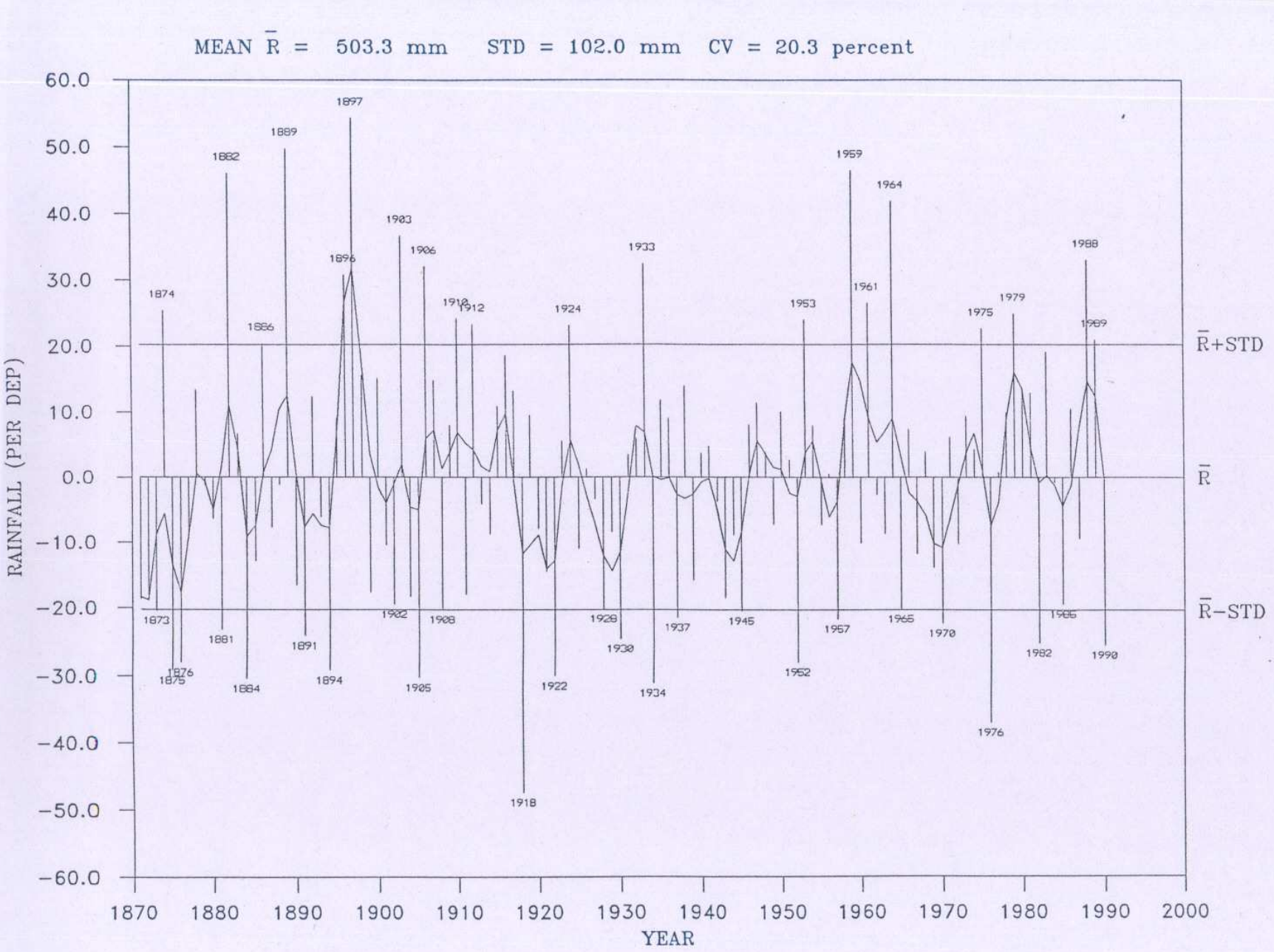
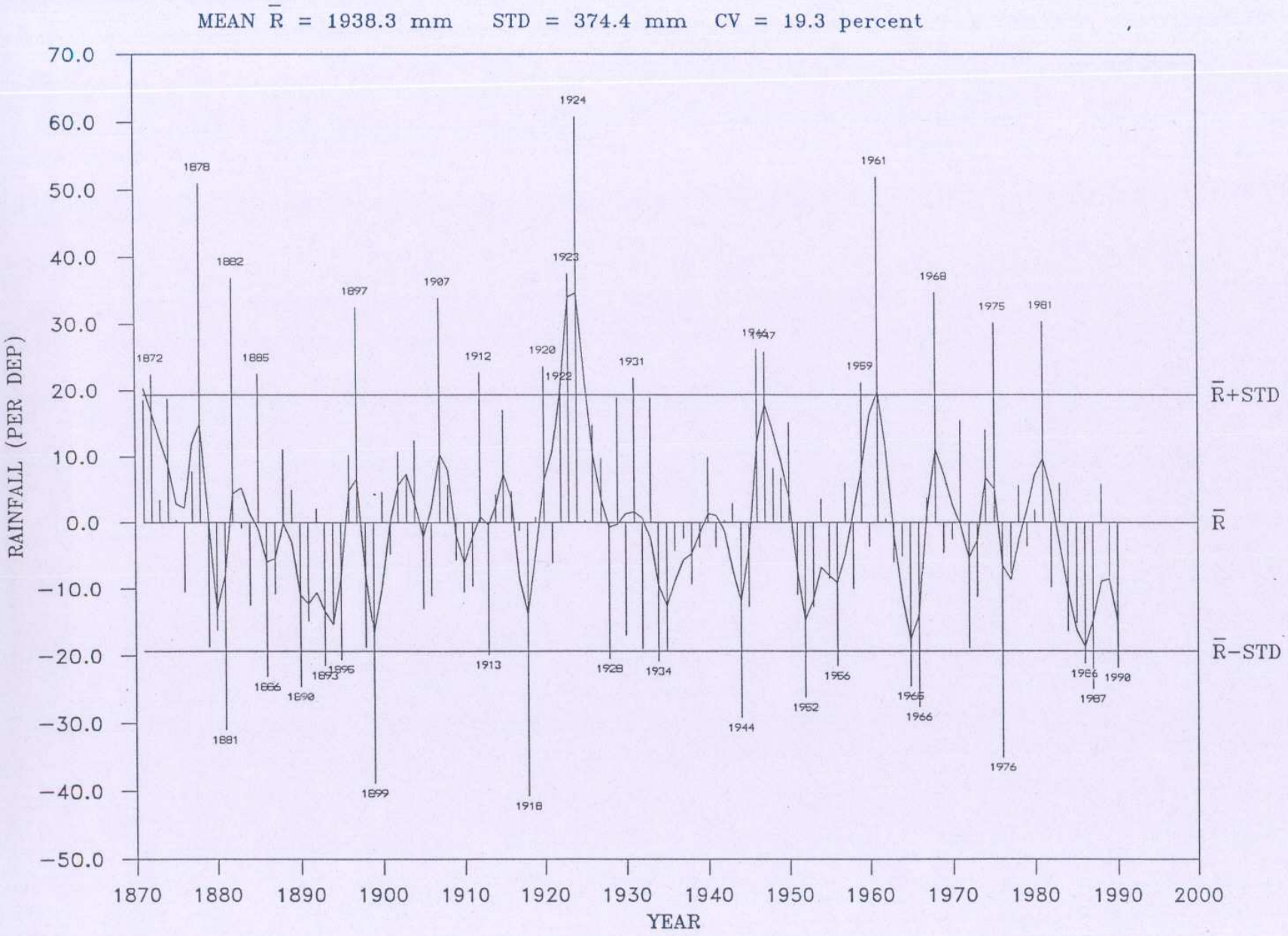
1982
1983
1988
COASTAL KARNATAKA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990



NORTH INTERIOR KARNATAKA SUBDIVISION SUMMER MONSOON RAINFALL 1871-1990



SOUTH INTERIOR KARNATAKA SUBDIVISION SUMMER MONSOON RAINFALL 1871–1990



KERALA SUBDIVISION SUMMER MONSOON RAINFALL 1871−1990

ALL-INDIA AREA 2880324 SQ.KM NO OF SUBDIVISIONS 29

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	19.7	10.8	14.5	33.9	63.6	208.0	277.9	179.4	183.6	36.8	32.4	6.7	30.5	112.0	848.9	75.9	1067.3
1872	7.6	7.5	7.3	24.0	43.8	189.3	291.3	245.2	188.0	78.5	27.6	19.1	15.1	75.1	913.8	125.2	1129.2
1873	3.7	13.5	15.1	24.3	42.9	113.0	264.5	214.2	165.7	60.7	11.5	9.0	17.2	82.3	757.4	81.2	938.1
1874	8.6	15.8	10.7	16.9	68.3	227.9	307.0	233.5	206.3	93.3	18.7	4.0	24.4	95.9	974.7	116.0	1211.0
1875	9.9	11.4	13.1	23.2	50.6	192.7	308.0	218.7	210.5	56.6	6.3	7.2	21.3	86.9	929.9	70.1	1108.2
1876	.9	2.1	16.0	16.5	42.6	123.3	296.8	195.7	162.1	46.5	9.5	2.5	3.0	75.1	777.9	58.5	914.5
1877	29.2	23.5	24.0	35.3	67.4	142.4	156.5	157.0	148.4	107.8	18.9	36.5	52.7	126.7	604.3	163.2	946.9
1878	10.8	9.1	10.3	36.1	66.5	130.4	294.0	339.4	212.4	79.9	27.4	14.0	19.9	112.9	976.2	121.3	1230.3
1879	2.2	10.8	8.0	8.2	87.7	190.1	224.2	322.1	161.6	86.6	20.5	7.1	13.0	103.9	898.0	114.2	1129.1
1880	3.9	16.5	15.1	21.1	49.6	187.6	271.8	176.8	184.1	87.8	52.8	11.2	20.4	85.8	820.3	151.8	1078.3
1881	1.3	3.2	33.1	23.7	53.1	160.7	292.7	264.7	143.4	49.3	34.7	6.2	4.5	109.9	861.5	90.2	1066.1
1882	10.0	9.5	9.0	18.9	59.7	213.0	331.2	190.3	168.6	74.0	59.6	6.2	19.5	87.6	903.1	139.8	1150.0
1883	18.0	3.6	18.9	16.5	62.2	204.3	269.0	188.0	188.1	83.1	28.2	15.5	21.6	97.6	849.4	126.8	1095.4
1884	7.1	7.4	8.2	20.3	38.4	159.4	292.5	242.7	238.6	86.7	27.0	30.5	14.5	66.9	933.2	144.2	1158.8
1885	9.6	9.9	13.6	20.0	52.8	194.1	272.9	248.0	132.8	73.7	32.1	50.2	19.5	86.4	847.8	156.0	1109.7
1886	4.9	1.2	22.3	12.5	71.2	197.8	316.0	221.8	139.1	132.0	21.4	17.1	6.1	106.0	874.7	170.5	1157.3
1887	17.6	.6	14.8	21.0	55.2	189.9	301.4	257.5	150.8	87.9	41.1	13.1	18.2	91.0	899.6	142.1	1150.9
1888	19.8	13.7	11.9	26.0	53.1	132.4	274.3	280.1	125.0	38.2	53.1	7.3	33.5	91.0	811.8	98.6	1034.9
1889	10.6	13.5	6.7	24.3	44.8	203.6	279.8	278.1	169.4	94.1	25.4	6.8	24.1	75.8	930.9	126.3	1157.1
1890	2.6	1.1	17.3	26.1	35.9	227.9	301.0	214.2	162.6	64.8	35.2	13.6	3.7	79.3	905.7	113.6	1102.3
1891	11.5	13.5	34.8	20.7	59.5	83.4	257.2	229.8	222.2	60.3	17.3	7.1	25.0	115.0	792.6	84.7	1017.3
1892	5.3	10.6	5.7	32.9	54.1	158.0	313.9	306.3	213.5	99.4	12.7	7.0	15.9	92.7	991.7	119.1	1219.4
1893	22.5	28.4	46.8	25.3	94.7	241.7	256.9	231.0	225.6	97.0	64.3	2.2	50.9	166.8	955.2	163.5	1336.4
1894	11.5	14.5	18.1	24.8	36.0	216.8	311.4	241.5	201.8	138.8	38.5	13.7	26.0	78.9	971.5	191.0	1267.4
1895	10.9	7.7	11.9	37.6	41.5	198.3	256.7	230.0	138.9	79.3	13.4	12.0	18.6	91.0	823.9	104.7	1038.2
1896	3.1	6.1	6.9	17.0	41.3	203.5	284.6	263.4	77.3	14.9	43.6	17.5	9.2	65.2	828.8	76.0	979.2
1897	9.3	12.4	20.8	21.7	43.5	142.6	259.9	290.5	198.2	85.6	13.0	1.8	21.7	86.0	891.2	100.4	1099.3
1898	2.1	30.7	2.8	21.1	37.6	171.7	293.0	220.9	199.3	65.5	39.3	12.5	32.8	61.5	884.9	117.3	1096.5
1899	5.8	6.6	7.4	52.3	52.7	195.2	187.9	144.1	102.1	50.7	4.1	2.6	12.4	112.4	629.3	57.4	811.5
1900	15.3	6.7	10.4	38.6	40.6	128.7	252.1	271.4	237.3	49.0	10.5	14.1	22.0	89.6	889.5	73.6	1074.7
1901	27.4	33.7	11.4	31.6	39.2	114.9	222.6	259.0	125.6	54.0	43.2	9.5	61.1	82.2	722.1	106.7	972.1
1902	6.7	2.5	10.2	35.4	41.9	103.8	279.7	197.2	211.2	69.8	27.9	26.9	9.2	87.5	791.9	124.6	1013.2
1903	8.6	5.5	10.3	12.1	56.3	126.9	279.0	259.4	195.8	128.9	43.5	15.2	14.1	78.7	861.1	187.6	1141.5
1904	5.9	8.6	20.3	31.1	68.7	179.6	247.6	197.0	126.2	70.7	9.0	9.9	14.5	120.1	750.4	89.6	974.6
1905	12.8	14.5	28.6	27.2	47.6	90.8	245.7	205.3	174.8	61.0	9.8	2.5	27.3	103.4	716.6	73.3	920.6
1906	15.2	38.6	22.0	13.5	32.8	181.8	287.6	241.9	173.9	54.4	19.9	26.4	53.8	68.3	885.2	100.7	1108.0
1907	6.3	32.5	25.7	52.4	26.4	154.2	221.8	301.4	100.3	20.5	23.8	12.8	38.8	104.5	777.7	57.1	978.1
1908	15.7	12.6	6.8	15.6	39.1	127.9	316.5	295.6	157.3	42.4	6.0	1.8	28.3	61.5	897.3	50.2	1037.3
1909	16.3	5.8	3.0	60.6	51.9	209.8	296.1	222.6	160.8	36.9	10.1	24.5	22.1	115.5	889.3	71.5	1098.4
1910	5.5	4.2	8.0	21.2	35.8	211.8	237.8	282.8	202.9	108.6	37.9	.3	9.7	65.0	935.3	146.8	1156.8
1911	16.2	1.3	24.1	19.6	44.1	192.6	153.4	211.1	179.5	72.6	41.5	11.4	17.5	87.8	736.6	125.5	967.4
1912	7.0	18.7	12.9	30.9	36.2	105.9	320.7	258.0	121.6	66.1	56.0	2.5	25.7	80.0	806.2	124.6	1036.5
1913	1.2	31.0	16.3	20.4	70.2	215.2	264.2	188.2	117.0	73.2	17.9	20.8	32.2	106.9	784.6	111.9	1035.6
1914	1.2	12.1	14.8	34.5	63.5	161.6	320.8	232.9	182.9	41.1	20.6	15.6	13.3	112.8	898.2	77.3	1101.6
1915	18.4	25.7	39.1	26.0	63.1	156.7	229.9	213.2	181.1	88.8	54.6	6.2	44.1	128.2	780.9	149.6	1102.8
1916	1.2	9.4	3.4	23.3	48.2	199.1	258.3	289.8	203.7	147.4	50.9	3.0	10.6	74.9	950.9	201.3	1237.7
1917	3.3	34.6	14.6	23.4	71.4	214.4	246.6	275.6	267.9	159.6	31.7	4.6	37.9	109.4	1004.5	195.9	1347.7
1918	10.6	2.0	14.6	18.6	88.1	181.3	143.6	220.5	105.6	14.7	47.3	11.2	12.6	121.3	651.0	73.2	858.1
1919	37.5	12.2	11.5	20.4	51.3	179.5	271.2	280.8	153.2	70.7	59.0	13.8	49.7	83.2	884.7	143.5	1161.1
1920	20.7	8.7	25.5	22.8	45.5	142.6	291.7	162.9	122.0	48.5	30.3	.5	29.4	93.8	719.2	79.3	921.7
1921	29.6	2.3	11.0	31.9	29.6	167.3	266.7	236.2	195.9	66.4	19.1	4.6	31.9	72.5	866.1	90.1	1060.6
1922	22.8	4.7	4.2	16.9	37.1	180.4	291.0	202.8	195.0	51.8	64.8	9.2	27.5	58.2	869.2	125.8	1080.7
1923	10.8	26.4	15.9	20.8	39.9	93.7	297.1	260.5	172.0	60.8	20.7	13.9	37.2	76.6	823.3	95.4	1032.5
1924	14.1	7.0	5.5	22.6	40.6	110.9	300.0	225.0	227.0	61.7	62.9	10.6	21.1	68.7	862.9	135.2	1087.9
1925	4.3	2.4	9.4	30.6	80.7	187.1	285.9	213.4	117.4	72.0	43.4	17.6	6.7	120.7	803.8	133.0	1064.2
1926	26.8	5.0	41.8	27.1	51.8	81.6	287.7	323.7	210.0	53.2	10.9	5.7	31.8	120.7	903.0	69.8	1125.3
1927	8.0	23.3	16.3	23.3	44.1	161.2	319.5	221.8	150.8	61.3	61.2	9.4	31.3	83.7	853.3	131.9	1100.2
1928	9.9	28.2	8.6	22.9	41.0	154.2	283.5	198.3	132.1	123.9	16.9	16.8	38.1	72.5	768.1	157.6	1036.3
1929	17.9	15.3	9.7	40.6	45.8	182.9	287.0	221.3	130.1	91.9	20.1	26.5	33.2	96.1	821.3	138.5	1089.1
1930	8.9	11.7	11.4	25.0	53.7	173.2	280.2	178.4	173.0	97.4	59.3	9.8	20.6	90.1	804.8	166.5	1082.0
1931	4.2	17.4	9.8	21.3	43.1	114.9	282.7	289.9	189.9	128.3	46.4	24.5	21.6	74.2	877.4	199.2	1172.4
1932	1.4	16.0	11.3	22.2	65.6	112.2	313.6	204.1	173.6	70.4	60.6	8.0	17.4	99.1	803.5	139.0	1059.0
1933	7.8	20.2	10.7	36.0	101.1	202.4	257.3	310.3	206.0	91.4	19.7	17.6	28.0	147.8	976.0	128.7	1280.5
1934	14.7	7.5	8.8	25.7	33.3	203.6	254.8	283.9	171.3	69.3	34.2	5.1	22.2	67.8	913.6	108.6	1112.2
1935	14.8	10.5	6.5	28.4	20.6	140.3	304.7	221.9	176.8	54.4	10.8	9.1	25.3	55.5	843.7	74.3	998.8

ALL-INDIA AREA 2880324 SQ.KM NO OF SUBDIVISIONS 29

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	6.0	29.2	18.2	18.7	83.7	239.5	260.5	219.0	189.6	70.2	62.5	10.4	35.2	120.6	908.6	143.1	1207.5
1937	1.0	41.1	11.9	48.5	47.0	155.8	328.3	189.2	168.9	94.7	21.4	10.0	42.1	107.4	842.2	126.1	1117.8
1938	11.5	14.6	15.5	19.3	64.5	238.9	267.8	242.1	159.6	78.3	16.7	3.3	26.1	99.3	908.4	98.3	1132.1
1939	7.3	16.1	18.0	28.8	28.8	147.5	252.9	236.8	152.5	93.6	33.3	1.3	23.4	75.6	789.7	128.2	1016.9
1940	7.6	17.1	34.2	19.3	67.3	169.4	288.4	284.4	111.3	72.2	45.5	15.0	24.7	120.8	853.5	132.7	1131.7
1941	19.6	10.4	7.0	23.2	60.8	164.3	218.3	209.8	136.0	68.1	27.3	12.6	30.0	91.0	728.4	108.0	957.4
1942	13.3	27.5	9.3	34.2	42.6	173.9	322.5	280.8	180.7	38.2	20.6	22.2	40.8	86.1	957.9	81.0	1165.8
1943	40.6	7.5	11.3	35.3	76.5	153.3	297.2	213.8	204.1	98.6	18.6	3.5	48.1	123.1	868.4	120.7	1160.3
1944	18.9	28.1	50.6	23.9	40.0	137.2	346.1	297.5	139.8	95.5	30.0	8.8	47.0	114.5	920.6	134.3	1216.4
1945	23.6	5.6	4.8	34.0	40.6	158.9	313.8	225.8	212.6	82.9	20.0	2.8	29.2	79.4	911.1	105.7	1125.4
1946	1.0	11.1	15.1	43.1	52.7	207.5	282.3	276.8	137.2	88.5	85.1	31.6	12.1	110.9	903.8	205.2	1232.0
1947	17.0	10.9	16.2	30.6	39.5	122.8	290.9	296.1	235.8	68.9	6.8	19.5	27.9	86.3	945.6	95.2	1155.0
1948	25.5	14.2	11.8	27.6	65.2	150.5	279.4	260.9	183.2	65.9	81.6	3.5	39.7	104.6	874.0	151.0	1169.3
1949	4.2	10.9	5.3	37.0	80.5	138.1	294.7	238.3	233.0	100.0	10.6	1.1	15.1	122.8	904.1	111.7	1153.7
1950	5.8	17.8	22.4	8.0	44.0	146.8	322.9	223.7	183.6	52.1	33.2	7.2	23.6	74.4	877.0	92.5	1067.5
1951	5.9	2.1	28.0	36.2	47.1	155.2	254.4	207.6	121.9	79.6	33.9	.9	8.0	111.3	739.1	114.4	972.8
1952	2.3	11.5	15.4	27.3	64.7	161.8	276.6	236.8	117.9	81.1	6.3	18.0	13.8	107.4	793.1	105.4	1019.7
1953	19.3	4.3	10.1	27.4	36.6	156.4	300.0	286.9	179.9	93.3	13.7	1.8	23.6	74.1	923.2	108.8	1129.7
1954	12.9	16.2	11.9	19.7	44.2	138.2	283.8	223.0	240.6	79.8	1.9	13.4	29.1	75.8	885.6	95.1	1085.6
1955	15.6	2.9	12.5	28.5	66.0	179.8	224.0	304.0	222.6	145.2	31.6	10.6	18.5	107.0	930.4	187.4	1243.3
1956	8.6	7.2	16.3	22.6	87.0	207.9	341.5	253.8	180.1	152.5	48.4	9.0	15.8	125.9	983.3	209.9	1334.9
1957	24.5	7.0	26.1	19.2	49.5	145.3	262.0	260.4	121.0	59.7	26.1	6.5	31.5	94.8	788.7	92.3	1007.3
1958	7.0	10.6	9.7	28.2	60.2	115.2	289.9	270.1	214.2	102.0	35.0	4.9	17.6	98.1	889.4	141.9	1147.0
1959	20.3	10.2	9.6	22.8	58.5	157.3	321.1	250.1	215.6	133.3	21.4	4.4	30.5	90.9	944.1	159.1	1224.6
1960	8.9	1.1	23.2	13.0	55.5	146.1	277.7	250.2	165.8	76.1	39.1	5.0	10.0	91.7	839.8	120.2	1061.7
1961	16.6	24.5	16.4	17.5	67.5	187.0	316.3	273.7	243.3	125.7	18.6	7.1	41.1	101.4	1020.3	151.4	1314.2
1962	9.1	11.0	11.5	34.6	58.1	105.9	259.4	236.3	208.2	84.4	15.2	28.8	20.1	104.2	809.8	128.4	1062.5
1963	7.3	5.2	14.1	32.1	47.2	152.5	239.6	302.9	162.9	98.9	22.9	10.0	12.5	93.4	857.9	131.8	1095.6
1964	1.4	5.8	8.3	24.9	43.8	143.8	313.0	263.7	202.1	73.4	25.8	6.5	7.2	77.0	922.6	105.7	1112.5
1965	5.5	9.2	14.9	24.3	34.6	110.4	266.9	189.4	142.7	36.2	15.8	22.1	14.7	73.8	709.4	74.1	872.0
1966	14.7	5.2	5.1	16.1	52.0	165.8	237.5	198.2	138.4	58.0	61.2	17.9	19.9	73.2	739.9	137.1	970.1
1967	9.2	2.7	52.8	22.5	33.3	141.4	292.4	257.4	168.9	42.0	13.2	49.6	11.9	108.6	860.1	104.8	1085.4
1968	15.0	12.1	20.1	27.0	31.7	136.5	288.6	194.7	134.8	70.3	23.8	7.0	27.1	78.8	754.6	101.1	961.6
1969	4.0	2.8	9.6	24.2	55.7	121.0	300.4	238.7	170.9	59.6	43.9	13.9	6.8	89.5	831.0	117.4	1044.7
1970	16.9	20.8	18.4	24.0	58.0	210.8	222.8	298.9	207.3	76.2	19.4	.8	37.7	100.4	939.8	96.4	1174.3
1971	11.4	10.3	9.3	46.0	70.2	219.4	249.3	258.8	159.3	105.2	13.8	10.0	21.7	125.5	886.8	129.0	1163.0
1972	2.5	13.1	4.8	20.6	44.8	122.6	183.9	217.2	129.2	63.4	30.8	16.0	15.6	70.2	652.9	110.2	848.9
1973	4.7	11.9	7.8	19.5	48.8	141.2	278.7	307.5	186.0	125.9	19.6	17.8	16.6	76.1	913.4	163.3	1169.4
1974	1.9	3.9	13.9	22.2	60.6	106.0	273.6	228.2	140.3	106.6	11.9	4.2	5.8	96.7	748.1	122.7	973.3
1975	6.7	9.6	13.7	16.4	40.6	180.2	290.1	264.7	227.9	121.7	25.0	2.8	16.3	70.7	962.9	149.5	1199.4
1976	4.7	8.1	12.6	29.9	36.7	141.9	288.2	278.6	148.1	31.9	61.7	4.0	12.8	79.2	856.8	97.6	1046.4
1977	7.1	5.8	8.4	48.9	71.9	188.3	310.6	239.5	144.8	89.3	71.4	8.6	12.9	129.2	883.2	169.3	1194.6
1978	7.3	21.6	19.6	23.4	50.3	199.6	276.1	273.5	160.1	55.1	44.2	23.0	28.9	93.3	909.3	122.3	1153.8
1979	14.6	27.3	9.9	15.8	40.5	143.5	225.8	199.0	139.5	46.1	88.3	12.0	41.9	66.2	707.8	146.4	962.3
1980	4.4	5.4	16.9	24.6	44.1	215.1	278.3	253.4	136.0	51.8	24.2	17.8	9.8	85.6	882.8	93.8	1072.0
1981	16.3	7.3	24.8	27.6	58.4	138.7	288.9	226.3	198.3	51.0	29.2	12.8	23.6	110.8	852.2	93.0	1079.6
1982	16.7	11.1	24.9	36.6	50.4	129.6	216.3	268.5	121.0	48.7	50.4	5.7	27.8	111.9	735.4	104.8	979.9
1983	7.3	10.6	12.7	35.4	54.9	137.8	273.7	293.4	250.8	90.0	12.2	26.2	17.9	103.0	955.7	128.4	1205.0
1984	16.1	26.6	12.2	27.9	39.1	173.9	261.2	259.1	142.5	60.1	13.2	7.8	42.7	79.2	836.7	81.1	1039.7
1985	17.1	6.9	9.7	23.7	43.8	140.4	253.4	218.5	147.5	114.0	19.3	13.1	24.0	77.2	759.8	146.4	1007.4
1986	14.8	28.1	7.5	31.0	43.5	177.6	238.4	213.5	113.5	70.7	38.6	16.9	42.9	82.0	743.0	126.2	994.1
1987	11.3	9.3	16.7	21.6	44.8	115.8	206.9	237.1	137.5	86.7	54.2	23.5	20.6	83.1	697.3	164.4	965.4
1988	2.5	11.2	18.8	31.9	50.3	156.5	323.2	276.2	205.6	50.2	22.5	10.2	13.7	101.0	961.5	82.9	1159.1
1989	6.1	3.8	19.1	16.6	42.6	183.6	286.2	231.1	165.8	48.6	14.9	12.1	9.9	78.3	866.7	75.6	1030.5
1990	5.2	25.7	23.7	30.0	107.7	172.1	263.1	283.4	190.1	100.7	33.5	8.8	30.9	161.4	908.7	143.0	1244.0
MEAN	11.1	12.7	15.3	26.2	52.4	163.1	274.5	243.4	171.4	77.1	31.2	11.9	23.8	93.9	852.4	120.2	1090.4
PER ANN	1.0	1.2	1.4	2.4	4.8	15.0	25.2	22.3	15.7	7.1	2.9	1.1	2.2	8.6	78.2	11.0	100.0
STD	7.8	9.1	9.3	9.0	15.8	36.7	37.0	39.0	38.1	29.1	18.8	9.1	12.1	20.7	84.7	34.8	103.9
COV	70.4	71.5	61.0	34.4	30.1	22.5	13.5	16.0	22.2	37.7	60.1	76.3	50.6	22.1	9.9	29.0	9.5
1991	8.9	8.3	13.7	29.5	50.9	180.7	255.7	232.8	115.3	60.9	35.4	13.2	17.2	94.1	784.5	109.5	1005.3
1992	6.1	10.2	4.0	16.7	48.4	121.1	224.7	280.4	158.6	65.6	49.5	7.4	16.3	69.1	784.8	122.5	992.7
1993	2.7	16.4	18.3	27.9	66.4	183.9	280.8	220.0	211.8	88.9	29.2	22.0	19.1	112.6	896.5	140.1	1168.3
1994	13.5	19.7	14.1	37.2	39.4	215.3	316.4	265.3	141.1	85.8	33.3	4.0	33.2	90.7	938.1	123.1	1185.1

NORTH WEST INDIA AREA 634272 SQ.KM NO OF SUBDIVISIONS 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	2.8	8.9	.0	1.5	29.3	121.2	193.9	115.2	30.6	2.0	14.3	5.3	11.7	30.8	460.9	21.6	525.0
1872	5.0	1.9	1.6	1.6	9.9	79.6	186.1	217.7	71.6	.3	.0	5.9	6.9	13.1	555.0	6.2	581.2
1873	2.0	11.2	1.3	1.7	18.0	49.7	191.3	171.9	91.8	11.0	1.9	1.7	13.2	21.0	504.7	14.6	553.5
1874	4.1	3.0	4.7	.3	7.3	88.1	189.3	139.9	54.0	.0	.0	.1	7.1	12.3	471.3	.1	490.8
1875	.4	21.8	3.7	1.4	15.1	33.0	202.6	96.9	238.8	4.8	.0	5.1	22.2	20.2	571.3	9.9	623.6
1876	.4	1.9	4.9	5.2	10.9	30.6	222.7	109.9	102.5	8.1	.9	.0	2.3	21.0	465.7	9.0	498.0
1877	13.5	20.6	5.0	6.5	15.8	38.5	55.0	15.9	79.1	52.6	5.9	35.0	34.1	27.3	188.5	93.5	343.4
1878	5.8	8.3	1.1	9.9	32.0	78.6	275.6	269.9	104.4	4.4	.0	1.6	14.1	43.0	728.5	6.0	791.6
1879	1.4	12.3	4.1	.1	5.1	121.3	70.8	263.9	73.9	10.7	.0	5.8	13.7	9.3	529.9	16.5	569.4
1880	.8	8.7	.0	.0	4.3	61.4	211.5	95.0	128.6	24.9	1.2	6.0	9.5	4.3	496.5	32.1	542.4
1881	.6	5.2	15.0	9.8	6.8	40.1	329.6	177.0	51.6	2.1	.0	2.5	5.8	31.6	598.3	4.6	640.3
1882	15.7	5.4	.0	1.3	8.3	80.4	307.8	81.0	94.7	.0	.8	.1	21.1	9.6	563.9	.9	595.5
1883	21.0	.3	6.7	.5	33.5	60.5	192.0	36.8	139.5	15.3	2.7	.4	21.3	40.7	428.8	18.4	509.2
1884	3.3	3.4	1.6	.1	3.9	95.9	242.3	128.6	216.8	6.9	.3	2.2	6.7	5.6	683.6	9.4	705.3
1885	16.5	.6	1.2	4.2	23.6	60.4	159.8	236.3	12.9	12.3	.4	11.5	17.1	29.0	469.4	24.2	539.7
1886	7.5	.4	8.6	.8	15.0	114.5	259.1	129.2	22.8	24.7	.5	1.5	7.9	24.4	525.6	26.7	584.6
1887	8.8	.3	.2	1.0	1.0	73.3	251.0	176.4	40.8	1.5	6.4	2.8	9.1	2.2	541.5	10.7	563.5
1888	12.9	16.0	3.2	1.2	1.2	36.4	129.2	209.0	25.7	5.4	16.1	.0	28.9	5.6	400.3	21.5	456.3
1889	10.0	13.8	2.9	2.5	25.4	82.8	191.9	226.7	15.9	9.8	.0	.0	23.8	30.8	517.3	9.8	581.7
1890	1.2	.5	5.1	2.0	2.6	107.4	170.8	125.5	35.5	4.9	1.2	13.9	1.7	9.7	439.2	20.0	470.6
1891	17.7	1.6	18.5	2.6	8.7	11.5	212.4	95.5	82.9	8.5	.0	.0	19.3	29.8	402.3	8.5	459.9
1892	12.1	2.5	.2	.0	12.9	44.9	216.5	222.2	201.0	9.0	.1	11.7	14.6	13.1	684.6	20.8	733.1
1893	19.3	19.9	8.4	1.8	21.5	180.3	200.3	117.2	150.5	1.6	30.5	2.7	39.2	31.7	648.3	34.8	754.0
1894	26.0	4.9	5.0	.7	5.0	179.4	312.7	104.9	103.1	26.0	1.9	21.1	30.9	10.7	700.1	49.0	790.7
1895	16.3	3.2	8.4	4.3	1.2	73.1	153.0	148.1	20.6	8.1	.0	.9	19.5	13.9	394.8	9.0	437.2
1896	1.5	5.4	2.2	.0	2.9	114.9	192.4	165.3	10.2	.6	22.2	7.0	6.9	5.1	482.8	29.8	524.6
1897	4.2	1.3	1.7	4.8	3.9	22.8	174.0	216.7	88.1	12.7	.0	.5	5.5	10.4	501.6	13.2	530.7
1898	.8	30.6	.0	.1	12.7	64.4	209.9	58.9	84.6	.0	.7	11.9	31.4	12.8	417.8	12.6	474.6
1899	.0	1.4	.0	3.5	7.9	96.6	47.0	10.1	8.5	.4	.0	.5	1.4	11.4	162.2	.9	175.9
1900	4.8	.6	.7	11.5	12.3	9.5	133.0	290.4	161.5	.7	1.7	9.7	5.4	24.5	594.4	12.1	636.4
1901	13.9	8.8	4.2	1.0	8.5	14.7	130.6	107.9	9.2	5.2	.0	1.0	22.7	13.7	262.4	6.2	305.0
1902	1.3	.2	1.1	2.1	7.9	37.1	130.6	124.8	129.8	6.6	.1	2.2	1.5	11.1	422.3	8.9	443.8
1903	4.4	1.5	7.3	.1	9.5	12.3	248.7	140.9	106.3	6.0	.0	.9	5.9	16.9	508.2	6.9	537.9
1904	5.3	4.9	26.7	.2	15.9	29.1	126.0	99.7	56.1	2.1	4.5	9.8	10.2	42.8	310.9	16.4	380.3
1905	11.0	9.0	4.2	2.2	1.4	10.8	174.2	18.9	64.2	.2	.0	1.7	20.0	7.8	268.1	1.9	297.8
1906	.9	37.0	11.1	.2	1.0	73.3	165.3	127.3	125.8	4.1	.0	3.9	37.9	12.3	491.7	8.0	549.9
1907	5.0	37.2	10.3	11.9	6.4	27.7	141.6	305.3	3.6	.0	.0	.0	42.2	28.6	478.2	.0	549.0
1908	13.8	1.7	.1	5.9	6.8	33.6	303.1	294.8	47.0	3.0	1.1	.2	15.5	12.8	678.5	4.3	711.1
1909	5.0	6.1	.0	26.5	2.1	97.3	241.6	132.8	133.4	1.2	.0	18.7	11.1	28.6	605.1	19.9	664.7
1910	6.3	1.4	.0	2.7	.8	133.8	133.0	223.4	59.2	18.1	1.6	.4	7.7	3.5	549.4	20.1	580.7
1911	20.7	.8	39.0	.7	.2	65.7	26.2	48.3	77.0	4.8	10.6	.1	21.5	39.9	217.2	15.5	294.1
1912	14.2	3.2	1.8	4.2	4.0	44.0	292.2	167.8	35.4	6.5	10.1	.8	17.4	10.0	539.4	17.4	584.2
1913	.1	12.6	7.4	.3	27.3	140.7	175.7	110.4	60.6	.5	.8	9.5	12.7	35.0	487.4	10.8	545.9
1914	2.8	6.4	1.5	8.3	8.3	108.6	226.3	81.4	141.1	10.6	5.6	.7	9.2	18.1	557.4	16.9	601.6
1915	13.5	26.9	22.1	2.4	3.6	43.0	68.9	54.3	41.2	47.0	.0	.6	40.4	28.1	207.4	47.6	323.5
1916	1.1	3.3	.4	1.8	12.2	54.3	136.0	272.5	122.7	29.4	.5	.0	4.4	14.4	585.5	29.9	634.2
1917	3.2	5.0	2.8	18.8	72.6	105.6	174.5	279.6	257.5	136.7	.0	1.5	8.2	94.2	817.2	138.2	1057.8
1918	2.0	.0	7.7	4.9	4.1	19.0	38.7	103.7	13.5	.0	1.3	.4	2.0	16.7	174.9	1.7	195.3
1919	21.9	1.7	2.0	5.3	11.0	25.4	180.1	235.6	52.6	5.8	11.2	7.1	23.6	18.3	493.7	24.1	559.7
1920	13.1	5.5	3.7	1.3	44.9	118.1	183.9	68.6	11.8	.1	.0	.1	18.6	49.9	382.4	.2	451.1
1921	6.7	.3	.0	.4	.1	16.8	224.0	107.1	151.3	6.4	.0	1.9	7.0	.5	499.2	8.3	515.0
1922	4.6	2.0	.2	.7	3.5	52.8	159.4	73.7	153.6	3.8	.7	9.0	6.6	4.4	439.5	13.5	464.0
1923	6.7	19.2	2.0	1.6	15.7	8.0	186.8	178.0	30.1	1.8	.3	8.4	25.9	19.3	402.9	10.5	458.6
1924	10.8	7.2	.4	.2	8.1	32.9	172.8	138.4	158.2	14.5	.8	14.4	18.0	8.7	502.3	29.7	558.7
1925	1.9	.1	.0	.8	12.3	136.1	146.7	50.7	10.9	2.5	9.8	.0	2.0	13.1	344.4	12.3	371.8
1926	6.9	1.3	21.4	4.4	27.9	11.3	202.0	283.8	203.9	.4	.3	.8	8.2	53.7	701.0	1.5	764.4
1927	.0	13.0	3.0	1.6	7.6	46.3	310.1	159.0	48.3	12.7	9.7	24.0	13.0	12.2	563.7	46.4	635.3
1928	4.7	8.1	1.0	1.5	1.2	25.5	187.5	154.9	60.3	28.2	12.8	5.0	12.8	3.7	428.2	46.0	490.7
1929	4.4	.4	.0	5.6	5.9	49.1	235.5	131.2	15.0	5.3	.0	16.0	4.8	11.5	430.8	21.3	468.4
1930	9.7	3.3	1.0	2.3	13.0	85.1	226.9	85.0	41.1	26.0	.2	1.6	13.0	16.3	438.1	27.8	495.2
1931	1.5	4.9	3.8	.3	10.5	11.8	164.0	288.3	40.9	42.9	1.3	.6	6.4	14.6	505.0	44.8	570.8
1932	2.2	1.8	9.2	1.9	5.1	21.7	249.3	117.7	49.4	6.8	.0	4.4	4.0	16.2	438.1	11.2	469.5
1933	.5	9.7	6.0	11.3	47.0	103.1	156.6	292.9	143.0	6.7	3.5	1.6	10.2	64.3	695.6	11.8	781.9
1934	4.0	.2	14.4	.6	2.6	105.6	120.9	261.9	45.8	.2	2.9	4.0	4.2	17.6	534.2	7.1	563.1
1935	18.6	7.5	3.4	13.5	1.1	32.4	246.1	81.9	93.4	8.3	2.0	5.1	26.1	18.0	453.8	15.4	513.3

NORTH WEST INDIA AREA 634272 SQ.KM NO OF SUBDIVISIONS 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.4	9.5	7.0	.9	2.4	115.3	101.4	91.2	86.7	1.4	20.3	5.6	9.9	10.3	394.6	27.3	442.1
1937	.4	30.0	1.6	5.3	3.5	84.6	298.1	25.0	115.6	3.5	.1	13.6	30.4	10.4	523.3	17.2	581.3
1938	10.8	2.9	.3	1.0	7.9	127.3	141.3	86.1	8.2	9.2	.0	.3	13.7	9.2	362.9	9.5	395.3
1939	1.1	24.3	11.8	.6	.0	35.1	77.7	106.4	42.9	.8	.6	.0	25.4	12.4	262.1	1.4	301.3
1940	23.4	15.2	12.9	2.1	2.1	67.5	114.2	200.8	30.5	15.0	8.0	.0	38.6	17.1	413.0	23.0	491.7
1941	14.6	4.5	1.6	.1	8.9	40.6	226.7	130.1	30.4	2.1	.0	3.1	19.1	10.6	427.8	5.2	462.7
1942	9.9	21.9	1.5	3.8	13.2	45.1	249.5	230.6	91.8	.4	.0	6.1	31.8	18.5	617.0	6.5	673.8
1943	8.8	.2	.8	3.7	7.7	52.2	281.5	60.1	83.8	8.4	.2	.0	9.0	12.2	477.6	8.6	507.4
1944	14.4	11.5	18.3	12.0	3.0	56.8	281.9	322.1	31.3	7.3	.2	1.4	25.9	33.3	692.1	8.9	760.2
1945	24.2	.0	1.6	4.7	12.7	90.6	285.6	146.1	164.3	1.9	.0	.0	24.2	19.0	686.6	1.9	731.7
1946	.1	5.7	.6	1.0	8.9	112.6	137.2	245.4	51.7	6.8	10.7	11.5	5.8	10.5	546.9	29.0	592.2
1947	5.5	3.7	1.3	19.0	1.3	5.2	94.9	214.4	211.9	8.9	.9	5.2	9.2	21.6	526.4	15.0	572.2
1948	25.0	15.2	9.4	.9	1.4	30.3	139.8	136.7	49.4	10.2	9.3	2.4	40.2	11.7	356.2	21.9	430.0
1949	2.8	8.9	.4	.5	3.9	29.6	238.2	122.0	91.8	4.8	.6	.8	11.7	4.8	481.6	6.2	504.3
1950	6.7	3.0	6.6	.1	3.4	9.9	345.8	107.9	165.2	.1	.0	.0	9.7	10.1	628.8	.1	648.7
1951	3.1	.3	10.9	6.5	9.0	39.0	112.1	119.5	7.9	1.8	26.1	.1	3.4	26.4	278.5	28.0	336.3
1952	2.5	6.0	4.2	1.1	2.6	74.4	262.1	143.9	5.8	.3	.6	1.1	8.5	7.9	486.2	2.0	504.6
1953	21.6	.2	.0	2.7	2.4	58.1	151.2	308.4	60.3	.9	.0	1.5	21.8	5.1	578.0	2.4	607.3
1954	6.4	25.6	3.7	.0	1.1	52.2	198.6	108.6	220.7	20.0	.6	.4	32.0	4.8	580.1	21.0	637.9
1955	7.9	1.7	4.1	2.4	6.2	52.5	56.3	262.9	175.6	75.6	.0	.6	9.6	12.7	547.3	76.2	645.8
1956	5.6	1.0	11.7	.8	5.6	49.6	341.2	186.2	58.7	105.7	.4	2.4	6.6	18.1	635.7	108.5	768.9
1957	24.9	.5	23.6	1.0	8.6	62.3	187.9	148.4	41.2	9.2	8.9	4.8	25.4	33.2	439.8	22.9	521.3
1958	4.8	.5	1.3	1.2	2.3	36.7	190.5	123.1	235.6	23.0	11.2	7.7	5.3	4.8	585.9	41.9	637.9
1959	7.2	3.5	1.7	3.6	14.9	50.2	340.7	164.7	174.8	60.1	8.9	.0	10.7	20.2	730.4	69.0	830.3
1960	3.2	.0	7.4	1.5	4.4	72.1	158.9	174.0	24.3	5.4	.0	5.9	3.2	13.3	429.3	11.3	457.1
1961	14.9	15.3	.4	5.2	4.5	88.5	191.3	164.5	199.6	14.0	2.2	1.9	30.2	10.1	643.9	18.1	702.3
1962	4.4	2.8	11.5	2.7	3.6	15.7	190.4	125.3	146.9	.1	4.8	4.5	7.2	17.8	478.3	9.4	512.7
1963	.7	2.1	7.2	1.4	3.8	31.0	114.8	221.9	85.5	11.6	16.9	2.1	2.8	12.4	453.2	30.6	499.0
1964	1.7	.5	1.4	.6	18.1	54.8	235.9	212.4	66.0	.1	.1	1.6	2.2	20.1	569.1	1.8	593.2
1965	5.9	4.4	4.0	4.7	9.2	4.3	222.1	103.2	33.7	6.6	2.5	.0	10.3	17.9	363.3	9.1	400.6
1966	.5	10.5	2.5	.3	16.3	74.3	141.5	107.9	86.0	3.9	1.1	.1	11.0	19.1	409.7	5.1	444.9
1967	.0	1.1	58.4	.6	1.7	66.4	229.2	171.9	90.9	5.2	2.3	33.4	1.1	60.7	558.4	40.9	661.1
1968	6.3	7.8	6.2	.1	3.7	13.2	176.7	139.8	12.5	4.4	.1	.8	14.1	10.0	342.2	5.3	371.6
1969	2.6	3.5	3.5	2.4	5.8	25.3	155.3	108.4	76.7	.7	4.9	.7	6.1	11.7	365.7	6.3	389.8
1970	9.1	16.1	3.3	.5	7.1	100.7	128.5	262.3	150.0	8.9	.5	.0	25.2	10.9	641.5	9.4	687.0
1971	2.4	4.0	.3	1.8	25.3	113.2	181.2	156.0	95.6	5.1	.5	.0	6.4	27.4	546.0	5.6	585.4
1972	2.5	5.5	1.4	3.3	1.6	57.8	93.3	149.2	10.4	1.1	3.9	1.4	8.0	6.3	310.7	6.4	331.4
1973	4.3	3.5	1.2	.1	15.4	50.6	181.7	275.7	124.3	6.7	.4	5.6	7.8	16.7	632.3	12.7	669.5
1974	.3	.5	.3	.6	23.2	27.3	153.9	83.5	35.5	33.4	.0	6.6	.8	24.1	300.2	40.0	365.1
1975	4.3	3.5	3.3	.3	3.0	95.8	167.0	224.9	191.3	55.5	.0	.4	7.8	6.6	679.0	55.9	749.3
1976	9.1	8.4	3.7	2.2	9.8	101.0	193.0	237.4	104.3	.9	31.2	.0	17.5	15.7	635.7	32.1	701.0
1977	13.7	1.5	.4	8.7	20.6	117.5	274.2	128.7	115.0	2.6	2.8	2.3	15.2	29.7	635.4	7.7	688.0
1978	.4	11.9	13.5	3.4	.2	117.6	232.0	186.9	41.2	4.6	17.2	4.5	12.3	17.1	577.7	26.3	633.4
1979	7.7	26.8	8.0	2.7	22.7	72.9	134.3	241.4	26.3	10.0	55.7	3.6	34.5	33.4	474.9	69.3	612.1
1980	3.0	1.6	7.9	1.1	5.9	129.0	219.1	102.3	28.8	4.9	2.6	16.7	4.6	14.9	479.2	24.2	522.9
1981	10.3	3.8	13.2	.2	7.9	48.3	222.5	139.6	63.3	11.4	50.0	.3	14.1	21.3	473.7	61.7	570.8
1982	13.4	5.2	19.9	26.9	51.0	21.6	144.5	160.5	10.2	7.9	46.8	6.2	18.6	97.8	336.8	60.9	514.1
1983	10.5	3.3	3.6	41.8	29.4	84.2	234.4	212.8	79.8	27.8	.0	.9	13.8	74.8	611.2	28.7	728.5
1984	.5	7.8	1.4	2.1	.4	40.3	158.0	195.2	94.5	.8	.1	.3	8.3	3.9	488.0	1.2	501.4
1985	1.2	.1	1.5	9.8	8.3	18.5	159.7	140.6	22.4	61.8	.0	7.8	1.3	19.6	341.2	69.6	431.7
1986	1.6	13.2	3.7	2.0	19.8	81.6	145.5	100.3	13.6	4.6	1.1	1.8	14.8	25.5	341.0	7.5	388.8
1987	6.8	5.0	5.3	1.4	31.0	40.9	44.1	103.2	9.0	5.4	2.8	10.0	11.8	37.7	197.2	18.2	264.9
1988	2.3	3.6	9.5	4.2	1.6	44.9	286.9	157.9	135.6	6.1	.2	3.4	5.9	15.3	625.3	9.7	656.2
1989	12.0	.4	5.1	.3	.6	70.0	163.2	186.9	36.4	1.5	1.8	3.0	12.4	6.0	456.5	6.3	481.2
1990	.2	27.0	3.8	1.3	19.3	43.5	185.0	266.4	112.1	9.1	3.8	5.7	27.2	24.4	607.0	18.6	677.2
MEAN	7.2	7.2	5.7	3.6	10.6	62.4	187.8	157.4	82.4	11.9	4.7	4.4	14.4	20.0	490.0	20.9	545.4
PER ANN	1.3	1.3	1.0	.7	2.0	11.4	34.4	28.9	15.1	2.2	.9	.8	2.6	3.7	89.9	3.8	100.0
STD	6.7	8.3	8.0	5.9	11.6	38.5	68.4	72.9	61.6	20.0	9.7	6.2	10.3	16.3	132.4	22.5	140.6
COV	93.1	115.5	140.5	161.5	108.7	61.7	36.4	46.3	74.7	168.7	206.1	142.1	71.4	81.7	27.0	107.5	25.8
1991	.3	7.9	2.3	16.1	1.8	40.2	170.2	117.7	27.4	.1	1.8	7.2	8.2	20.2	355.5	9.1	393.0
1992	13.6	9.7	2.3	.7	9.2	40.1	167.4	223.0	151.3	15.8	6.3	.0	23.3	12.2	581.8	22.1	639.4
1993	2.9	8.7	6.3	4.7	8.6	95.3	273.8	41.9	84.0	11.0	4.9	.0	11.6	19.6	495.0	15.9	542.1
1994	16.1	4.0	.5	10.6	5.7	112.1	270.0	185.8	125.7	.1	.3	1.0	20.1	16.8	693.6	1.4	731.9

WEST CENTRAL INDIA AREA 962694 SQ.KM NO OF SUBDIVISIONS 8

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	30.3	4.7	1.4	6.3	24.5	242.2	264.2	140.4	202.0	17.2	10.1	1.9	35.0	32.2	848.8	29.2	945.2
1872	1.4	4.4	4.6	20.7	4.0	201.6	335.6	253.7	209.8	48.8	1.3	23.0	5.8	29.3	1000.7	73.1	1108.9
1873	4.4	9.3	7.3	5.8	31.4	106.8	267.1	226.2	232.3	18.7	8.3	9.1	13.7	44.5	832.4	36.1	926.7
1874	4.1	4.2	3.3	5.0	25.2	265.0	382.3	274.3	224.8	36.1	3.5	1.1	8.3	33.5	1146.4	40.7	1228.9
1875	2.2	6.3	2.2	7.8	14.1	244.7	400.5	205.7	217.6	48.6	1.4	6.0	8.5	24.1	1068.5	56.0	1157.1
1876	.1	.3	8.2	1.8	8.2	103.5	356.5	207.4	176.2	7.7	.9	.0	.4	18.2	843.6	8.6	870.8
1877	37.3	16.1	15.6	43.6	33.7	189.9	159.7	188.6	126.2	96.3	7.9	29.5	53.4	92.9	664.4	133.7	944.4
1878	7.2	8.4	3.9	25.4	27.6	108.6	333.7	381.1	219.6	79.0	16.3	1.5	15.6	56.9	1043.0	96.8	1212.3
1879	.2	8.4	.4	2.6	62.0	204.6	198.7	390.5	134.8	80.7	12.4	.2	8.6	65.0	928.6	93.3	1095.5
1880	.0	2.6	2.9	4.3	11.2	189.4	294.9	133.6	252.6	74.4	29.6	2.0	2.6	18.4	870.5	106.0	997.5
1881	.1	1.8	27.6	8.9	14.7	180.7	321.9	263.5	143.9	36.7	28.9	1.1	1.9	51.2	910.0	66.7	1029.8
1882	3.9	.8	1.4	8.8	21.7	292.1	402.6	159.3	206.5	27.3	44.2	.9	4.7	31.9	1060.5	72.4	1169.5
1883	8.9	.0	12.0	3.0	17.1	243.8	290.9	223.2	269.6	87.3	12.4	.0	8.9	32.1	1027.5	99.7	1168.2
1884	12.2	6.4	2.5	6.9	6.4	162.3	421.1	289.8	298.2	58.8	.7	41.4	18.6	15.8	1171.4	100.9	1306.7
1885	5.9	8.0	8.9	16.0	39.1	225.0	315.0	229.5	121.0	78.4	21.4	64.6	13.9	64.0	890.5	164.4	1132.8
1886	2.0	.7	10.1	2.7	37.8	218.2	331.4	198.1	86.3	165.0	8.9	23.9	2.7	50.6	834.0	197.8	1085.1
1887	16.2	.0	.8	9.6	15.2	197.8	401.5	297.2	190.9	88.6	32.9	4.6	16.2	25.6	1087.4	126.1	1255.3
1888	26.2	10.7	4.0	4.8	16.4	145.0	325.2	271.4	122.6	19.8	43.8	1.0	36.9	25.2	864.2	64.6	990.9
1889	1.0	5.4	2.5	16.2	14.2	193.6	304.2	333.9	176.5	101.7	1.9	.3	6.4	32.9	1008.2	103.9	1151.4
1890	.0	.2	7.0	14.4	5.1	230.1	319.2	237.3	202.9	25.6	46.0	18.0	.2	26.5	989.5	89.6	1105.8
1891	8.0	10.3	18.9	12.8	15.6	51.1	332.7	250.4	340.5	43.5	1.2	.1	18.3	47.3	974.7	44.8	1085.1
1892	3.9	8.7	.1	10.6	14.9	183.5	367.4	333.1	284.3	112.2	6.9	2.3	12.6	25.6	1168.3	121.4	1327.9
1893	25.5	16.1	65.8	5.5	58.6	251.5	210.3	320.1	240.0	91.1	43.9	.2	41.6	129.9	1021.9	135.2	1328.6
1894	6.1	9.4	6.7	6.7	6.0	224.0	347.3	239.9	260.4	114.6	24.2	8.8	15.5	19.4	1071.6	147.6	1254.1
1895	7.1	12.0	8.9	18.4	7.8	240.3	246.0	247.3	163.2	64.3	7.4	2.2	19.1	35.1	896.8	73.9	1024.9
1896	.2	.0	1.1	5.3	7.7	228.9	368.2	330.4	39.0	4.9	27.6	12.0	.2	14.1	966.5	44.5	1025.3
1897	14.4	7.3	4.8	19.9	14.0	127.5	294.5	314.9	200.3	71.2	1.1	.0	21.7	38.7	937.2	72.3	1069.9
1898	.0	31.9	2.3	12.2	9.2	181.1	386.2	244.7	189.6	32.2	13.1	2.4	31.9	23.7	1001.6	47.7	1104.9
1899	.5	3.8	1.2	27.7	19.9	185.0	125.8	140.5	81.4	7.8	.0	.1	4.3	48.8	532.7	7.9	593.7
1900	12.3	3.0	3.1	13.1	9.8	110.8	297.8	315.5	257.1	24.8	2.7	7.9	15.3	26.0	981.2	35.4	1057.9
1901	25.6	34.2	15.7	27.0	20.5	120.5	271.4	341.2	115.3	38.7	3.3	.6	59.8	63.2	848.4	42.6	1014.0
1902	5.4	3.0	.4	10.8	9.2	72.9	302.1	196.7	211.8	44.2	28.3	28.5	8.4	20.4	783.5	101.0	913.3
1903	4.8	1.9	.1	3.5	47.6	109.1	355.5	300.0	205.9	121.7	11.1	3.9	6.7	51.2	970.5	136.7	1165.1
1904	1.1	6.1	17.7	4.0	25.6	192.6	239.1	183.9	160.1	68.9	.7	3.9	7.2	47.3	775.7	73.5	903.7
1905	10.2	7.6	9.8	15.0	16.4	74.9	258.9	192.0	211.0	31.1	2.5	.2	17.8	41.2	736.8	33.8	829.6
1906	13.4	17.5	16.9	.6	8.1	220.5	340.6	234.5	187.0	25.8	8.0	17.8	30.9	25.6	982.6	51.6	1090.7
1907	3.5	30.8	7.7	47.1	2.8	152.3	250.2	334.6	84.3	2.2	6.7	3.9	34.3	57.6	821.4	12.8	926.1
1908	8.1	14.4	7.7	4.9	8.3	131.3	344.9	336.2	195.6	9.9	.5	2.0	22.5	20.9	1008.0	12.4	1063.8
1909	5.9	5.0	3.7	40.6	17.6	199.3	342.3	192.5	146.1	11.0	1.3	26.1	10.9	61.9	880.2	38.4	991.4
1910	2.2	.0	1.4	4.4	12.4	229.6	220.1	295.2	282.2	67.5	44.7	.0	2.2	18.2	1027.1	112.2	1159.7
1911	8.7	.1	7.4	2.8	8.9	187.6	182.4	270.6	167.9	48.0	35.5	2.9	8.8	19.1	808.5	86.4	922.8
1912	2.3	29.1	.1	11.0	10.3	73.8	350.2	278.3	112.7	27.6	42.4	1.0	31.4	21.4	815.0	71.0	938.8
1913	.8	28.0	7.3	7.4	31.8	212.4	301.1	188.6	106.9	28.3	2.7	13.8	28.8	46.5	809.0	44.8	929.1
1914	.0	4.0	14.7	18.9	28.5	187.2	384.1	259.1	207.0	12.0	12.3	7.4	4.0	62.1	1037.4	31.7	1135.2
1915	19.2	18.8	39.0	17.8	18.2	183.0	262.9	234.6	201.9	103.9	15.7	7.2	38.0	75.0	882.4	126.8	1122.2
1916	.6	11.4	.3	5.1	30.8	227.4	286.3	307.1	232.3	143.7	59.2	.0	12.0	36.2	1053.1	202.9	1304.2
1917	2.9	43.2	16.5	7.7	43.0	230.3	263.9	302.5	282.6	124.9	17.0	.8	46.1	67.2	1079.3	142.7	1335.3
1918	6.1	2.4	4.0	5.9	82.6	181.8	140.0	214.0	93.4	5.0	22.3	10.4	8.5	92.5	629.2	37.7	767.9
1919	46.9	19.8	14.0	9.1	28.6	233.0	291.6	343.4	144.6	72.8	35.2	3.6	66.7	51.7	1012.6	111.6	1242.6
1920	23.0	1.0	6.7	12.9	19.1	104.0	294.4	156.5	106.4	13.1	.3	.0	24.0	38.7	661.3	13.4	737.4
1921	18.4	.8	.3	9.0	1.3	212.9	267.6	213.2	189.6	29.1	15.6	.4	19.2	10.6	883.3	45.1	958.2
1922	35.5	5.3	.0	9.3	14.5	170.8	319.7	169.1	200.7	25.5	65.3	3.2	40.8	23.8	860.3	94.0	1018.9
1923	2.2	10.9	24.2	8.4	9.6	44.4	404.0	281.6	221.5	24.3	1.2	3.2	13.1	42.2	951.5	28.7	1035.5
1924	16.9	2.9	4.5	12.4	7.7	78.5	295.1	252.7	228.3	68.4	34.3	7.9	19.8	24.6	854.6	110.6	1009.6
1925	.0	.0	1.7	9.9	55.1	188.0	324.3	248.0	115.9	55.2	40.8	3.8	.0	66.7	876.2	99.8	1042.7
1926	38.0	3.5	26.8	22.8	31.3	54.0	284.2	386.0	215.2	41.6	2.1	1.0	41.5	80.9	939.4	44.7	1106.5
1927	2.7	12.4	13.4	4.7	11.3	186.6	339.4	218.6	133.2	61.9	72.1	5.1	15.1	29.4	877.8	139.1	1061.4
1928	2.4	27.9	10.0	6.2	6.9	169.6	318.0	200.6	172.3	87.3	.5	23.2	30.3	23.1	860.5	111.0	1024.9
1929	8.7	26.1	1.0	19.0	7.1	182.6	305.2	216.9	168.3	50.2	2.2	18.9	34.8	27.1	873.0	71.3	1006.2
1930	1.2	2.6	3.4	21.7	13.3	186.8	308.0	177.8	201.5	65.4	33.6	3.8	3.8	38.4	874.1	102.8	1019.1
1931	4.2	10.9	7.4	7.5	13.7	114.0	328.6	324.5	218.9	161.2	45.8	7.9	15.1	28.6	986.0	214.9	1244.6
1932	.0	14.3	8.4	11.0	15.5	111.1	416.6	202.2	223.9	68.9	29.2	1.7	14.3	34.9	953.8	99.8	1102.8
1933	7.5	26.2	10.1	19.8	75.0	225.8	285.5	302.6	270.1	70.2	19.3	16.5	33.7	104.9	1084.0	106.0	1328.6
1934	5.6	.0	3.4	13.4	2.1	199.2	296.8	342.9	255.9	30.6	42.6	3.1	5.6	13.9	1094.8	76.3	1195.6
1935	9.8	6.2	.4	24.5	2.9	154.1	380.8	208.5	195.3	47.3	2.4	5.1	16.0	27.8	938.7	54.8	1037.3

WEST CENTRAL INDIA AREA 962694 SQ.KM NO OF SUBDIVISIONS 8

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	7.8	34.4	14.8	7.1	35.9	270.2	245.0	251.7	196.6	49.9	80.3	4.2	42.2	57.8	963.5	134.4	1197.9
1937	.1	30.3	19.1	63.8	6.3	171.4	409.9	192.1	190.8	87.4	.8	6.4	30.4	89.2	964.2	94.6	1178.4
1938	9.1	13.0	14.4	7.9	35.0	292.2	331.6	263.1	189.9	113.5	4.8	.4	22.1	57.3	1076.8	118.7	1274.9
1939	6.6	7.3	21.7	10.0	1.0	125.6	315.7	320.3	135.0	51.2	9.0	.5	13.9	32.7	896.6	60.7	1003.9
1940	2.7	8.0	8.5	16.9	34.2	199.0	380.2	313.3	89.5	72.0	17.3	12.6	10.7	59.6	982.0	101.9	1154.2
1941	19.9	15.5	9.1	5.2	11.6	123.3	212.3	206.0	140.3	30.5	1.2	.7	35.4	25.9	681.9	32.4	775.6
1942	13.3	36.5	1.7	15.2	7.8	197.6	416.8	305.6	156.0	12.7	1.2	20.4	49.8	24.7	1076.0	34.3	1184.8
1943	47.6	2.8	1.4	12.7	48.2	168.7	313.3	188.9	256.2	101.8	6.4	.0	50.4	62.3	927.1	108.2	1148.0
1944	11.1	31.0	59.8	7.0	11.4	123.3	437.0	320.0	163.6	101.6	10.8	1.2	42.1	78.2	1043.9	113.6	1277.8
1945	17.1	1.7	.0	29.4	5.5	184.5	361.8	255.9	227.0	46.1	5.0	.5	18.8	34.9	1029.2	51.6	1134.5
1946	.0	14.7	1.4	21.4	20.9	245.5	326.5	321.9	135.9	24.6	100.4	10.5	14.7	43.7	1029.8	135.5	1223.7
1947	22.0	14.8	10.0	12.1	10.3	99.9	362.5	372.4	252.1	34.9	4.5	16.0	36.8	32.4	1086.9	55.4	1211.5
1948	28.9	5.3	4.8	12.5	8.8	168.5	328.1	296.5	235.0	39.6	101.8	.1	34.2	26.1	1028.1	141.5	1229.9
1949	.6	3.7	1.9	7.4	48.9	138.4	307.0	226.2	318.2	100.9	2.7	.1	4.3	58.2	989.8	103.7	1156.0
1950	3.0	19.0	21.4	2.7	13.8	94.0	356.6	212.1	215.3	31.2	8.1	8.0	22.0	37.9	878.0	47.3	985.2
1951	5.2	2.9	30.3	19.7	23.0	141.5	295.8	243.7	132.1	80.5	6.6	.0	8.1	73.0	813.1	87.1	981.3
1952	.3	12.1	6.3	12.3	27.1	146.4	306.6	249.8	114.3	47.0	.0	4.2	12.4	45.7	817.1	51.2	926.4
1953	11.6	1.9	.1	18.5	2.6	149.9	318.9	298.0	179.6	92.1	.0	.0	13.5	21.2	946.4	92.1	1073.2
1954	5.1	4.4	9.3	9.2	9.7	123.9	343.0	248.6	317.5	24.2	.1	4.4	9.5	28.2	1033.0	28.7	1099.4
1955	17.8	1.0	3.5	10.3	24.3	224.1	229.8	380.6	252.4	147.6	5.1	.0	18.8	38.1	1086.9	152.7	1296.5
1956	4.5	5.3	2.5	6.4	69.4	198.8	420.1	268.2	185.7	99.9	48.2	6.0	9.8	78.3	1072.8	154.1	1315.0
1957	8.1	4.0	36.4	23.1	25.1	133.8	282.9	336.6	107.9	58.0	8.8	.3	12.1	84.6	861.2	67.1	1025.0
1958	4.2	9.7	12.1	17.4	22.9	119.2	385.3	325.2	200.0	83.5	25.2	.1	13.9	52.4	1029.7	108.8	1204.8
1959	16.3	3.7	.2	12.3	25.9	172.3	368.9	315.1	274.3	87.2	10.4	.6	20.0	38.4	1130.6	98.2	1287.2
1960	19.6	.0	26.7	8.2	31.4	170.6	281.3	274.7	147.9	70.4	7.5	1.1	19.6	66.3	874.5	79.0	1039.4
1961	11.4	11.6	3.4	10.1	48.0	179.5	418.3	304.7	309.0	132.6	8.4	6.2	23.0	61.5	1211.5	147.2	1443.2
1962	4.3	10.0	12.2	28.5	30.8	81.6	303.4	239.4	248.8	34.4	19.6	51.5	14.3	71.5	873.2	105.5	1064.5
1963	2.6	7.8	9.6	20.9	19.9	166.5	267.7	368.5	154.1	78.1	8.8	.5	10.4	50.4	956.8	87.4	1105.0
1964	.0	4.7	4.2	6.8	5.6	172.2	288.9	317.5	229.2	60.1	9.0	1.0	4.7	16.6	1007.8	70.1	1099.2
1965	8.2	2.4	9.1	14.7	8.6	109.6	302.2	178.8	161.7	10.1	2.3	12.3	10.6	32.4	752.3	24.7	820.0
1966	15.0	1.0	4.8	7.4	33.6	120.9	292.1	190.7	147.2	16.3	45.4	16.5	16.0	45.8	750.9	78.2	890.9
1967	1.4	.1	49.6	12.2	8.7	162.6	342.3	268.8	181.0	23.7	1.1	67.0	1.5	70.5	954.7	91.8	1118.5
1968	15.1	14.9	22.7	15.9	6.6	107.3	308.4	189.0	180.6	48.8	7.9	2.9	30.0	45.2	785.3	59.6	920.1
1969	4.6	1.2	1.8	8.3	28.0	108.1	375.6	279.5	227.4	24.0	36.8	3.7	5.8	38.1	990.6	64.5	1099.0
1970	16.9	9.7	15.6	10.8	30.3	259.4	234.8	374.6	212.6	33.3	.0	.0	26.6	56.7	1081.4	33.3	1198.0
1971	10.8	6.8	8.4	14.9	46.3	250.6	254.5	246.6	164.2	89.3	.2	.1	17.6	69.6	915.9	89.6	1092.7
1972	.1	5.9	.3	8.4	10.1	122.4	187.4	259.7	114.5	24.6	33.4	1.9	6.0	18.8	684.0	59.9	768.7
1973	.8	13.3	.8	4.1	7.3	108.1	369.4	372.1	190.3	128.1	3.8	3.2	14.1	12.2	1039.9	135.1	1201.3
1974	.3	4.3	3.7	7.8	37.6	101.9	239.1	282.7	112.6	134.5	5.5	.4	4.6	49.1	736.3	140.4	930.4
1975	7.0	9.8	10.9	2.7	15.4	184.8	321.2	304.8	253.3	130.6	4.4	.0	16.8	29.0	1064.1	135.0	1244.9
1976	4.4	1.5	4.0	15.4	13.1	141.3	349.4	296.9	138.8	4.5	44.5	1.4	5.9	32.5	926.4	50.4	1015.2
1977	2.0	4.0	7.9	18.9	31.7	219.0	303.3	289.6	147.9	54.9	68.6	4.3	6.0	58.5	959.8	127.8	1152.1
1978	11.1	25.8	15.3	17.5	24.7	211.7	306.1	337.1	140.0	36.0	26.9	20.9	36.9	57.5	994.9	83.8	1173.1
1979	23.0	28.4	5.0	4.5	28.7	157.0	209.4	223.9	154.6	20.0	77.1	3.6	51.4	38.2	744.9	100.7	935.2
1980	3.6	1.7	5.0	14.6	6.1	250.1	246.8	352.2	138.4	9.8	4.3	21.2	5.3	25.7	987.5	35.3	1053.8
1981	13.7	.7	17.1	7.9	21.5	152.6	274.5	259.3	252.1	41.3	10.5	8.7	14.4	46.5	938.5	60.5	1059.9
1982	31.2	8.0	11.4	11.9	32.5	117.8	268.2	307.5	140.9	48.6	35.3	.5	39.2	55.8	834.4	84.4	1013.8
1983	2.4	6.3	1.1	6.3	22.3	140.8	288.1	361.1	324.0	79.6	2.3	7.3	8.7	29.7	1114.0	89.2	1241.6
1984	22.3	17.6	3.4	16.5	3.8	131.7	256.5	311.9	111.1	66.0	1.7	1.9	39.9	23.7	811.2	69.6	944.4
1985	17.8	3.4	2.5	12.0	15.0	150.1	277.7	240.9	134.9	109.1	3.7	1.1	21.2	29.5	803.6	113.9	968.2
1986	14.2	40.7	6.9	11.9	13.8	217.3	271.0	261.0	82.6	24.2	17.3	20.4	54.9	32.6	831.9	61.9	981.3
1987	17.0	13.8	10.1	3.0	26.1	111.3	232.7	281.3	113.3	100.2	48.1	16.8	30.8	39.2	738.6	165.1	973.7
1988	2.7	9.3	4.2	17.1	9.3	162.6	343.3	272.2	252.6	39.0	2.6	6.1	12.0	30.6	1030.7	47.7	1121.0
1989	.9	.0	26.6	3.7	10.5	203.0	278.2	263.0	158.4	14.7	2.1	14.0	.9	40.8	902.6	30.8	975.1
1990	1.9	11.0	5.6	3.5	97.9	229.2	255.6	360.8	219.3	101.4	8.2	9.4	12.9	107.0	1064.9	119.0	1303.8
MEAN	9.5	9.9	9.6	12.6	21.5	169.5	308.0	267.8	187.9	58.8	18.5	7.6	19.4	43.7	933.2	84.9	1081.1
PER ANN	.9	.9	.9	1.2	2.0	15.7	28.5	24.8	17.4	5.4	1.7	.7	1.8	4.0	86.3	7.9	100.0
STD	10.2	10.0	11.3	9.5	17.4	54.5	61.3	60.8	60.5	38.5	21.9	11.7	14.8	22.2	125.9	43.1	146.1
COV	108.0	101.1	118.1	75.4	80.6	32.2	19.9	22.7	32.2	65.4	118.0	154.8	76.3	50.8	13.5	50.7	13.5
1991	6.2	4.6	8.1	17.4	19.1	203.9	320.6	264.0	47.2	20.2	11.1	4.4	10.8	44.6	835.7	35.7	926.8
1992	.3	2.9	.2	7.4	22.0	130.8	200.7	363.6	138.6	46.7	29.0	.4	3.2	29.6	833.7	76.1	942.6
1993	.0	7.3	13.0	6.7	15.7	161.5	295.6	287.7	255.5	97.7	4.0	13.4	7.3	35.4	1000.3	115.1	1158.1
1994	10.1	8.9	.3	21.0	13.8	268.8	356.2	303.2	136.3	75.2	11.4	1.3	19.0	35.1	1064.5	87.9	1206.5

CENTRAL NORTHEAST INDIA AREA 573006 SQ.KM NO OF SUBDIVISIONS 5

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	4.6	17.1	12.2	54.8	69.5	222.3	387.2	285.7	298.1	12.9	.1	15.7	21.7	136.5	1193.3	28.7	1380.2
1872	25.6	15.0	4.5	10.4	25.0	234.0	321.1	288.6	195.8	98.5	17.4	2.6	40.6	39.9	1039.5	118.5	1238.5
1873	5.4	1.1	27.0	11.2	26.2	61.0	384.3	258.1	171.4	46.3	3.3	8.5	6.5	64.4	874.8	58.1	1003.8
1874	15.1	28.3	11.7	5.1	23.4	272.3	318.6	336.2	232.3	109.7	18.5	.6	43.4	40.2	1159.4	128.8	1371.8
1875	22.5	15.3	.9	12.0	51.9	159.4	334.4	295.8	241.3	51.5	.0	1.2	37.8	64.8	1030.9	52.7	1186.2
1876	1.0	.5	8.0	16.1	32.4	96.1	322.3	239.7	239.2	104.5	.0	.0	1.5	56.5	897.3	104.5	1059.8
1877	48.4	44.3	25.4	30.6	67.2	105.5	199.0	187.1	123.1	85.7	1.6	28.9	92.7	123.2	614.7	116.2	946.8
1878	25.8	8.1	11.4	28.4	77.3	73.6	254.9	304.5	205.9	52.4	25.2	13.2	33.9	117.1	838.9	90.8	1080.7
1879	.8	11.5	3.9	.7	52.7	152.2	366.6	365.1	262.2	98.8	4.5	7.1	12.3	57.3	1146.1	110.4	1326.1
1880	2.5	36.5	1.8	8.9	58.5	181.1	341.9	267.9	171.9	76.1	28.8	4.7	39.0	69.2	962.8	109.6	1180.6
1881	1.0	3.2	46.2	7.1	46.7	206.9	323.8	337.8	130.6	83.7	5.1	1.1	4.2	100.0	999.1	89.9	1193.2
1882	3.6	11.3	1.5	15.7	62.1	181.2	307.8	298.3	144.8	81.4	26.2	2.3	14.9	79.3	932.1	109.9	1136.2
1883	41.6	4.8	25.6	6.9	30.5	258.9	329.5	177.5	168.6	26.3	13.3	8.9	46.4	63.0	934.5	48.5	1092.4
1884	.7	7.9	2.7	10.3	28.8	178.5	260.3	301.7	269.2	93.5	1.4	3.6	8.6	41.8	1009.7	98.5	1158.6
1885	15.2	20.5	10.1	6.4	47.0	200.7	321.4	349.2	170.0	27.5	14.4	50.9	35.7	63.5	1041.3	92.8	1233.3
1886	7.2	.9	38.2	3.5	65.0	194.1	334.1	303.3	244.6	139.0	18.5	17.5	8.1	106.7	1076.1	175.0	1365.9
1887	29.0	.0	8.1	11.1	92.0	147.5	312.5	337.5	173.7	65.1	6.7	.4	29.0	111.2	971.2	72.2	1183.6
1888	27.6	14.7	8.0	10.4	35.4	73.4	380.8	426.5	198.5	13.7	24.9	.1	42.3	53.8	1079.2	38.7	1214.0
1889	26.1	25.9	3.4	5.7	28.8	231.0	352.1	323.2	188.7	86.3	58.7	.4	52.0	37.9	1095.0	145.4	1330.3
1890	1.5	.7	19.7	8.0	39.0	288.1	438.7	284.0	228.7	70.3	12.3	4.7	2.2	66.7	1239.5	87.3	1395.7
1891	19.0	11.4	71.9	4.6	73.0	77.3	205.3	401.6	288.2	38.9	22.2	.0	30.4	149.5	972.4	61.1	1213.4
1892	3.8	16.6	.4	4.9	22.4	170.5	360.4	346.6	166.1	52.9	8.9	2.2	20.4	27.7	1043.6	64.0	1155.7
1893	32.1	53.3	38.9	19.4	125.6	218.5	347.2	253.0	325.9	110.3	12.5	.1	85.4	183.9	1144.6	122.9	1536.8
1894	12.5	23.1	5.0	14.1	8.4	228.7	361.4	367.6	212.1	194.4	47.8	11.9	35.6	27.5	1169.8	254.1	1487.0
1895	21.1	10.9	6.0	26.5	33.5	268.6	320.1	299.9	154.2	41.4	3.7	2.6	32.0	66.0	1042.8	47.7	1188.5
1896	1.2	2.2	5.0	1.9	32.1	229.7	309.0	322.0	102.7	.0	9.3	9.1	3.4	39.0	963.4	18.4	1024.2
1897	11.7	18.8	35.7	18.4	24.3	170.4	303.4	349.8	191.4	121.1	12.9	.3	30.5	78.4	1015.0	134.3	1258.2
1898	.8	40.7	1.3	12.8	36.3	154.0	299.0	358.8	276.5	50.7	2.8	5.5	41.5	50.4	1088.3	59.0	1239.2
1899	15.8	5.1	1.1	49.1	51.2	252.0	412.0	230.8	96.5	44.1	.0	.1	20.9	101.4	991.3	44.2	1157.8
1900	41.6	7.9	6.4	23.8	43.2	153.8	263.4	307.7	313.5	63.6	.1	19.1	49.5	73.4	1038.4	82.8	1244.1
1901	57.3	46.7	9.7	16.2	40.4	43.9	242.3	350.6	180.0	27.2	31.3	1.9	104.0	66.3	816.8	60.4	1047.5
1902	3.9	2.4	10.3	30.9	41.4	68.8	394.3	237.0	246.4	20.0	3.5	7.8	6.3	82.6	946.5	31.3	1066.7
1903	14.3	7.5	3.8	15.1	36.1	114.2	204.7	312.3	216.6	228.7	9.0	2.9	21.8	55.0	847.8	240.6	1165.2
1904	4.6	7.4	20.3	5.1	72.5	235.7	370.7	334.6	123.5	58.5	9.4	13.3	12.0	97.9	1064.5	81.2	1255.6
1905	24.6	27.8	40.2	21.7	52.4	41.5	315.6	300.5	260.7	12.7	.1	1.6	52.4	114.3	918.3	14.4	1099.4
1906	16.5	76.5	24.9	.4	27.0	186.4	330.4	295.1	186.2	48.5	3.9	10.8	93.0	52.3	998.1	63.2	1206.6
1907	3.4	55.1	44.1	38.6	21.6	168.0	203.2	364.1	121.6	8.4	4.5	11.1	58.5	104.3	856.9	24.0	1043.7
1908	22.2	19.5	5.4	2.1	27.2	129.2	293.2	369.8	125.2	25.0	.2	.4	41.7	34.7	917.4	25.6	1019.4
1909	12.0	7.1	1.1	83.3	17.4	274.9	368.3	250.3	189.4	22.5	.5	28.1	19.1	101.8	1082.9	51.1	1254.9
1910	9.6	3.6	2.3	16.4	36.7	190.8	279.0	361.4	236.7	134.2	14.4	.1	13.2	55.4	1067.9	148.7	1285.2
1911	23.8	.8	32.0	7.4	24.5	248.7	119.4	337.8	315.0	80.8	36.5	.6	24.6	63.9	1020.9	117.9	1227.3
1912	10.7	21.3	13.0	19.6	29.8	88.3	327.4	333.5	164.1	27.2	43.1	.2	32.0	62.4	913.3	70.5	1078.2
1913	1.0	57.1	25.3	3.1	75.7	251.2	278.8	294.6	135.5	59.1	13.4	12.9	58.1	104.1	960.1	85.4	1207.7
1914	.4	18.5	18.8	25.3	100.4	127.5	372.6	323.6	181.5	11.6	1.3	2.8	18.9	144.5	1005.2	15.7	1184.3
1915	12.7	43.5	33.4	8.9	49.5	117.9	261.0	320.9	265.6	73.6	50.9	1.0	56.2	91.8	965.4	125.5	1238.9
1916	.0	14.7	.1	16.6	25.1	242.3	305.3	330.6	220.4	143.6	21.2	.0	14.7	41.8	1098.6	164.8	1319.9
1917	4.2	41.0	14.5	10.1	68.6	211.2	313.5	267.2	282.5	183.0	4.6	1.9	45.2	93.2	1074.4	189.5	1402.3
1918	5.7	.1	10.8	15.0	63.3	246.8	149.8	322.8	152.7	3.7	2.7	1.2	5.8	89.1	872.1	7.6	974.6
1919	61.6	17.3	13.6	13.9	35.6	195.1	341.1	346.1	184.5	68.0	29.6	5.4	78.9	63.1	1066.8	103.0	1311.8
1920	.9	16.5	33.5	8.2	31.2	122.2	499.1	213.5	155.1	14.5	.0	.0	17.4	72.9	989.9	14.5	1094.7
1921	42.8	3.6	3.0	13.1	8.2	177.0	273.7	379.8	267.6	39.1	5.4	.4	46.4	24.3	1098.1	44.9	1213.7
1922	23.5	3.7	.0	7.3	16.2	213.8	420.0	370.8	287.5	25.0	9.3	9.6	27.2	23.5	1292.1	43.9	1386.7
1923	1.4	53.6	3.9	6.4	27.0	90.2	276.1	362.7	205.2	77.5	31.3	11.6	55.0	37.3	934.2	120.4	1146.9
1924	19.1	11.6	2.0	5.0	28.8	79.1	380.2	270.0	289.7	61.1	76.3	7.1	30.7	35.8	1019.0	144.5	1230.0
1925	5.6	1.2	4.5	29.8	53.5	214.6	423.0	298.1	184.9	68.9	8.9	2.8	6.8	87.8	1120.6	80.6	1295.8
1926	21.0	5.4	61.4	20.6	39.3	38.2	354.7	382.0	230.3	39.8	1.3	5.3	26.4	121.3	1005.2	46.4	1199.3
1927	10.5	39.9	20.6	4.0	39.7	135.6	338.9	331.2	151.0	77.1	40.8	3.2	50.4	64.3	956.7	121.1	1192.5
1928	28.2	44.8	2.6	28.6	32.3	166.5	372.2	179.6	123.2	140.1	3.2	8.7	73.0	63.5	841.5	152.0	1130.0
1929	38.3	9.1	8.6	14.8	17.5	152.3	369.9	358.3	105.3	148.4	.1	40.0	47.4	40.9	985.8	188.5	1262.6
1930	9.5	14.2	6.5	14.6	17.2	115.7	389.1	267.0	240.2	35.3	67.9	8.2	23.7	38.3	1012.0	111.4	1185.4
1931	2.7	44.5	12.1	5.2	18.4	69.2	310.6	314.8	294.7	134.3	20.0	.5	47.2	35.7	989.3	154.8	1227.0
1932	.0	18.2	7.1	10.4	33.1	84.5	291.1	257.6	227.8	29.0	64.0	4.0	18.2	50.6	861.0	97.0	1026.8
1933	20.0	33.2	4.8	34.9	88.6	222.5	306.8	342.6	207.1	100.9	6.2	4.9	53.2	128.3	1079.0	112.0	1372.5
1934	25.5	4.6	9.8	5.6	7.5	166.9	335.0	330.1	227.8	43.1	6.6	4.5	30.1	22.9	1059.8	54.2	1167.0
1935	18.9	16.2	5.4	17.4	5.7	92.7	340.8	310.6	244.8	5.6	.6	8.8	35.1	28.5	988.9	15.0	1067.5

CENTRAL NORTHEAST INDIA AREA 573006 SQ.KM NO OF SUBDIVISIONS 5

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNL
1936	10.3	26.3	8.9	5.1	83.4	310.0	437.0	331.9	274.9	94.8	9.0	14.5	36.6	97.4	1353.8	118.3	160
1937	.0	77.8	7.2	27.6	50.6	142.6	297.4	314.9	188.0	96.3	.2	3.7	77.8	85.4	942.9	100.2	120
1938	20.4	17.8	3.7	5.4	68.8	252.2	321.9	327.2	184.9	75.2	7.6	.0	38.2	77.9	1086.2	82.8	12
1939	10.0	26.2	16.5	8.5	13.0	187.2	333.7	289.1	241.8	84.8	4.0	1.0	36.2	38.0	1051.8	89.8	12
1940	6.4	34.3	60.3	12.3	51.8	147.1	367.2	366.7	128.9	35.4	1.2	19.6	40.7	124.4	1009.9	56.2	12
1941	27.3	3.4	3.2	5.9	40.1	203.0	226.9	316.1	166.6	79.8	20.3	.4	30.7	49.2	912.6	100.5	10
1942	31.6	42.2	8.5	16.9	16.0	142.6	363.2	361.3	284.8	22.7	26.5	4.4	73.8	41.4	1151.9	53.6	1320.7
1943	48.5	8.2	3.8	36.2	31.4	122.8	342.9	445.2	242.8	39.5	3.9	.0	56.7	71.4	1153.7	43.4	1325.2
1944	29.4	51.5	55.9	28.7	13.4	130.4	361.4	341.2	149.1	81.1	2.6	1.2	80.9	98.0	982.1	84.9	1245.9
1945	41.7	9.3	.7	27.3	33.0	105.4	298.7	259.2	299.2	132.1	2.4	3.7	51.0	61.0	962.5	138.2	1212.7
1946	.2	16.0	6.6	52.8	62.3	168.2	362.2	301.9	175.7	113.9	26.4	4.5	16.2	121.7	1008.0	144.8	1290.7
1947	17.3	13.5	18.6	6.4	25.7	127.0	352.3	286.9	215.7	73.3	4.3	22.7	30.8	50.7	981.9	100.3	1163.7
1948	21.5	20.0	10.0	10.7	37.3	132.8	366.6	364.2	242.1	71.8	43.1	.6	41.5	58.0	1105.7	115.5	1320.7
1949	7.9	31.6	5.9	20.6	56.7	112.2	340.5	354.9	241.5	132.3	.3	.0	39.5	83.2	1049.1	132.6	1304.4
1950	12.9	13.7	36.7	1.2	37.5	222.3	301.3	330.3	153.0	23.4	40.9	10.8	26.6	75.4	1006.9	75.1	1184.0
1951	13.0	4.8	40.9	16.2	32.3	138.3	262.6	266.9	185.2	67.6	18.9	.0	17.8	89.4	853.0	86.5	1046.7
1952	2.7	12.2	25.6	23.8	31.2	220.5	249.0	346.2	212.5	63.1	1.9	2.1	14.9	80.6	1028.2	67.1	1190.8
1953	35.6	5.8	1.2	8.0	23.5	184.1	383.2	356.1	241.6	26.1	23.1	.8	41.4	32.7	1165.0	50.0	1289.1
1954	22.3	24.4	5.8	3.3	20.0	116.2	270.4	266.0	236.3	78.2	.0	4.8	46.7	29.1	888.9	83.0	1047.7
1955	27.8	6.3	4.2	11.7	28.4	165.7	336.9	313.3	243.1	172.1	27.1	.1	34.1	44.3	1059.0	199.3	1336.7
1956	13.4	19.6	18.3	7.4	62.3	230.3	310.4	330.8	288.9	184.0	23.5	5.3	33.0	88.0	1160.4	212.8	1494.2
1957	51.8	10.7	24.7	3.8	5.6	95.1	327.6	321.5	197.9	18.1	.5	4.2	62.5	34.1	942.1	22.8	1061.5
1958	12.1	15.3	9.7	13.7	18.8	82.1	316.2	339.9	257.8	130.3	17.4	3.0	27.4	42.2	996.0	150.7	1216.3
1959	47.4	4.2	5.6	13.5	47.7	122.7	270.6	300.6	170.3	181.0	3.5	.7	51.6	66.8	864.2	185.2	1167.8
1960	6.1	.1	34.3	5.3	25.9	113.4	353.6	375.5	202.8	121.8	2.1	5.0	6.2	65.5	1045.3	128.9	1245.9
1961	21.5	57.9	.2	7.2	33.2	179.8	304.8	375.4	234.2	191.4	3.7	7.7	79.4	40.6	1094.2	202.8	1417.0
1962	20.3	11.6	12.6	26.6	21.0	116.1	285.3	314.6	241.8	70.0	1.9	5.1	31.9	60.2	957.8	77.0	1126.9
1963	7.4	5.4	11.3	21.1	54.2	148.0	289.1	329.2	263.1	112.0	9.8	1.2	12.8	86.6	1029.4	123.0	1251.8
1964	2.1	11.5	1.6	16.3	50.4	108.5	406.4	286.3	239.4	50.6	3.5	4.5	13.6	68.3	1040.6	58.6	1181.1
1965	3.6	8.8	26.6	23.4	23.6	64.9	296.1	231.5	199.3	55.6	.5	.6	12.4	73.6	791.8	56.7	934.5
1966	26.8	8.1	1.4	10.8	27.9	203.7	219.1	261.2	94.1	34.5	31.2	7.3	34.9	40.1	778.1	73.0	926.1
1967	14.4	.2	47.6	21.1	17.5	103.9	281.4	416.9	209.8	14.7	1.4	27.2	14.6	86.2	1012.0	43.3	1156.1
1968	34.5	11.2	10.5	8.3	14.9	164.3	309.2	259.0	141.7	99.9	13.8	2.7	45.7	33.7	874.2	116.4	1070.0
1969	3.5	4.2	6.0	15.7	58.0	115.8	375.1	312.0	227.0	24.7	32.3	3.3	7.7	79.7	1029.9	60.3	1177.6
1970	23.4	49.4	27.8	11.6	49.7	187.8	242.0	270.1	266.7	65.8	5.1	.0	72.8	89.1	966.6	70.9	1199.4
1971	20.1	20.2	4.8	66.8	69.6	253.1	318.2	396.7	188.0	142.5	3.8	.0	40.3	141.2	1156.0	146.3	1483.8
1972	5.1	32.1	2.8	9.0	5.9	69.7	231.5	277.4	230.3	54.0	21.5	.4	37.2	17.7	808.9	75.9	939.7
1973	13.2	10.9	16.4	3.9	43.3	139.6	310.6	316.6	227.4	166.3	6.8	6.1	24.1	63.6	994.2	179.2	1261.1
1974	.7	2.7	19.1	6.3	34.9	79.9	321.2	287.1	153.7	58.6	4.8	6.6	3.4	60.3	841.9	70.0	975.6
1975	12.2	14.3	15.6	10.3	18.0	190.4	343.5	282.1	221.9	72.4	4.8	.0	26.5	43.9	1037.9	77.2	1185.5
1976	2.8	11.4	5.9	13.5	42.6	94.5	294.7	344.2	252.4	22.1	11.5	1.0	14.2	62.0	985.8	34.6	1096.6
1977	12.1	5.9	2.2	34.9	66.3	136.4	396.6	273.2	178.3	80.7	33.5	12.7	18.0	103.4	984.5	126.9	1232.8
1978	12.9	32.8	35.4	11.4	22.2	195.7	289.4	328.0	219.1	73.3	7.9	9.6	45.7	69.0	1032.2	90.8	1237.7
1979	22.4	31.1	7.0	15.7	15.3	124.6	290.8	151.1	94.1	37.6	26.3	11.7	53.5	38.0	660.6	75.6	827.7
1980	8.8	7.5	25.8	11.4	40.0	220.7	413.0	304.1	236.9	47.9	1.7	9.2	16.3	77.2	1174.7	58.8	1327.0
1981	26.0	13.4	26.3	25.4	63.5	119.5	386.9	260.0	229.4	4.8	9.2	7.2	39.4	115.2	995.8	21.2	1171.6
1982	15.4	18.8	55.7	22.1	37.2	145.2	199.2	380.7	177.0	28.0	16.2	5.1	34.2	115.0	902.1	49.3	1100.6
1983	12.7	20.5	10.0	42.4	59.5	123.3	284.8	282.3	292.0	85.1	1.0	14.5	33.2	111.9	982.4	100.6	1228.1
1984	21.6	31.6	1.1	19.7	37.0	298.1	348.2	345.2	176.1	29.8	.0	1.5	53.2	57.8	1167.6	31.3	1309.9
1985	17.3	11.7	1.4	9.9	38.8	111.4	331.1	293.8	283.7	171.9	.5	6.5	29.0	50.1	1020.0	178.9	1278.0
1986	14.3	35.3	4.8	23.5	60.2	183.3	338.9	253.1	149.3	93.3	38.1	26.4	49.6	88.5	924.6	157.8	1220.5
1987	11.7	8.6	9.5	18.7	46.4	73.3	310.2	281.3	222.0	58.6	41.3	5.1	20.3	74.6	886.8	105.0	1086.7
1988	3.0	20.6	30.4	29.2	27.2	187.4	310.9	332.7	158.8	46.1	1.2	8.7	23.6	86.8	989.8	56.0	1156.2
1989	11.0	3.9	12.9	1.2	53.2	208.9	312.2	276.7	221.1	27.1	2.7	13.6	14.9	67.3	1018.9	43.4	1144.5
1990	.1	49.2	37.3	28.9	80.9	167.2	393.9	273.4	225.2	81.7	37.7	7.4	49.3	147.1	1059.7	126.8	1382.9
MEAN	16.2	19.1	15.3	16.3	40.4	160.4	320.9	311.9	209.1	72.6	14.2	6.4	35.3	72.0	1002.4	93.3	1203.0
PER ANN	1.3	1.6	1.3	1.4	3.4	13.3	26.7	25.9	17.4	6.0	1.2	.5	2.9	6.0	83.3	7.8	100.0
STD	13.7	16.9	15.5	13.4	21.7	62.1	59.3	50.5	53.8	48.8	16.2	8.2	21.5	32.3	112.8	51.3	131.8
COV	84.9	88.6	101.1	82.3	53.8	38.7	18.5	16.2	25.7	67.2	114.1	127.5	61.1	44.9	11.2	54.9	11.0
1991	16.3	8.0	18.7	14.5	28.1	128.1	242.6	353.7	182.3	33.4	15.2	20.8	24.3	61.3	906.7	69.4	1061.7
1992	9.9	11.5	.6	9.0	47.2	103.1	304.9	284.0	146.4	62.7	7.0	.0	21.4	56.8	838.4	69.7	986.3
1993	2.8	7.0	19.9	37.7	62.5	213.9	214.7	277.3	280.3	32.6	10.3	.0	9.8	120.1	986.2	42.9	1159.0
1994	17.9	31.0	.7	26.7	31.7	212.8	362.0	355.2	183.5	53.7	7.8	.2	48.9	59.1	1113.5	61.7	1283.2

NORTH EAST INDIA AREA 267444 SQ.KM NO OF SUBDIVISIONS 4

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	1.1	23.4	68.8	151.2	234.4	338.1	403.2	378.3	289.7	134.4	13.6	1.6	24.5	454.4	1409.3	149.6	2037.8
1872	9.9	21.4	43.6	108.9	220.3	321.6	432.5	323.0	390.8	197.6	3.9	3.8	31.3	372.8	1467.9	205.3	2077.3
1873	7.6	18.2	71.3	129.3	131.8	335.7	341.2	310.1	178.9	40.0	6.3	6.7	25.8	332.4	1165.9	53.0	1577.1
1874	35.3	76.1	64.7	115.1	260.3	337.9	414.9	289.3	375.1	239.0	19.6	.2	111.4	440.1	1417.2	258.8	2227.5
1875	40.4	11.9	97.9	145.7	246.1	483.6	396.0	499.8	196.6	60.0	6.3	6.9	52.3	489.7	1576.0	73.2	2191.2
1876	6.3	15.7	88.1	89.0	248.8	445.7	388.0	372.5	240.2	151.6	42.4	5.9	22.0	425.9	1446.4	199.9	2094.2
1877	38.3	41.9	90.3	104.7	264.3	243.7	424.4	347.7	349.3	75.8	12.4	16.4	80.2	459.3	1365.1	104.6	2009.2
1878	11.9	30.9	59.5	129.9	235.3	358.1	401.5	493.5	428.7	136.3	48.6	8.1	42.8	424.7	1681.8	193.0	2342.3
1879	3.8	19.8	14.9	53.3	269.3	453.2	417.4	371.5	362.3	134.1	1.0	14.4	23.6	337.5	1604.4	149.5	2115.0
1880	27.4	60.5	140.5	122.1	210.5	534.2	364.7	415.4	248.2	151.7	9.0	15.1	87.9	473.1	1562.5	175.8	2299.3
1881	1.5	9.2	99.7	163.3	287.7	359.7	377.8	400.6	372.0	107.8	16.6	4.2	10.7	550.7	1510.1	128.6	2200.1
1882	9.1	60.3	82.0	102.4	227.0	367.5	289.1	397.1	280.4	285.5	37.9	5.2	69.4	411.4	1334.1	328.6	2143.5
1883	19.4	10.4	61.9	106.6	335.3	349.6	353.0	439.5	238.2	38.2	7.9	62.9	29.8	503.8	1380.3	109.0	2022.9
1884	9.0	28.7	63.2	148.8	244.1	339.0	304.6	327.2	199.1	139.0	21.6	2.8	37.7	456.1	1169.9	163.4	1827.1
1885	8.1	30.5	64.0	119.2	169.4	359.8	418.2	361.5	382.2	93.8	26.7	14.1	38.6	352.6	1521.7	134.6	2047.5
1886	4.9	7.5	84.8	95.5	211.9	370.0	485.8	414.7	379.6	107.1	2.6	8.1	12.4	392.2	1650.1	117.8	2172.5
1887	48.0	3.7	122.1	112.0	242.2	456.8	289.9	327.8	260.2	73.8	24.7	.0	51.7	476.3	1334.7	98.5	1961.2
1888	25.3	37.8	87.1	188.8	239.3	324.7	403.8	408.5	219.2	75.2	21.6	.0	63.1	515.2	1356.2	96.8	2031.3
1889	26.5	36.4	36.2	111.8	211.3	454.8	379.5	274.5	333.6	92.5	64.9	1.6	62.9	359.3	1442.4	159.0	2023.6
1890	17.1	2.3	82.5	112.2	167.9	457.9	446.7	338.2	257.7	183.9	8.1	9.6	19.4	362.6	1500.5	201.6	2084.1
1891	5.8	42.0	79.4	103.3	315.7	284.2	383.3	317.6	224.1	43.4	40.2	.2	47.8	498.4	1209.2	83.8	1839.2
1892	5.7	30.1	49.9	211.1	314.3	301.0	378.4	382.1	229.5	123.6	46.4	4.6	35.8	575.3	1291.0	174.6	2076.7
1893	26.6	63.6	84.0	148.8	337.6	472.0	458.0	350.1	311.9	153.8	6.8	2.3	90.2	570.4	1592.0	162.9	2415.5
1894	2.3	40.2	105.9	122.0	242.5	400.1	335.3	389.1	344.0	223.9	79.2	12.9	42.5	470.4	1468.5	316.0	2297.4
1895	7.9	7.6	58.0	160.7	247.1	276.2	496.5	336.5	262.0	108.1	16.8	25.9	15.5	465.8	1371.2	150.8	2003.3
1896	15.2	48.1	46.5	132.9	220.4	271.6	348.9	270.8	249.0	19.7	5.0	1.8	63.3	399.8	1140.3	26.5	1629.9
1897	4.2	18.4	106.1	61.8	242.0	345.3	349.8	384.0	361.0	184.7	24.5	.7	22.6	409.9	1440.1	209.9	2082.5
1898	12.9	32.9	14.8	86.4	156.4	445.3	339.0	426.3	305.3	173.6	2.9	6.7	45.8	257.6	1515.9	183.2	2002.5
1899	22.5	33.8	68.0	130.1	258.2	441.4	472.9	389.4	337.4	149.6	9.1	7.5	56.3	456.3	1641.1	166.2	2319.9
1900	7.0	42.5	83.0	163.9	199.6	345.2	389.5	226.7	298.3	65.8	5.1	6.2	49.5	446.5	1259.7	77.1	1832.8
1901	24.6	27.3	19.7	148.2	129.9	381.3	331.4	365.9	283.1	143.2	87.0	1.4	51.9	297.8	1361.7	231.6	1943.0
1902	2.9	4.7	59.6	226.6	204.1	407.0	387.3	368.0	363.4	95.7	8.6	4.6	7.6	490.3	1525.7	108.9	2132.5
1903	13.5	27.6	84.4	62.1	130.6	435.2	275.3	409.2	286.5	164.5	42.0	.3	41.1	277.1	1406.2	206.8	1931.2
1904	4.8	43.2	40.0	273.2	246.7	329.8	404.5	367.0	228.1	93.0	46.5	2.7	48.0	559.9	1329.4	142.2	2079.5
1905	17.5	31.0	146.3	128.9	198.8	311.4	438.1	532.0	270.4	178.7	6.8	16.5	48.5	474.0	1551.9	202.0	2276.4
1906	15.7	78.0	78.7	131.4	204.8	324.8	411.7	452.6	315.9	140.9	30.6	1.2	93.7	414.9	1505.0	172.7	2186.3
1907	25.4	30.7	102.4	157.5	153.9	381.7	399.3	259.2	298.3	31.4	4.4	22.7	56.1	413.8	1338.5	58.5	1866.9
1908	17.9	17.7	10.4	89.2	217.4	339.5	445.6	264.6	304.5	83.3	19.4	.0	35.6	317.0	1354.2	102.7	1809.5
1909	12.3	6.1	2.3	158.7	190.4	472.0	271.8	462.6	229.7	149.4	31.0	23.6	18.4	351.4	1436.1	204.0	2009.9
1910	11.8	20.2	68.1	120.2	181.5	424.8	496.7	331.7	277.1	172.6	9.7	2.0	32.0	369.8	1530.3	184.3	2116.4
1911	41.9	8.7	59.4	141.0	266.4	407.2	386.9	326.9	294.9	183.5	12.7	.8	50.6	466.8	1415.9	197.0	2130.3
1912	6.5	38.2	98.6	195.9	188.3	297.2	451.3	344.8	214.8	147.3	74.7	3.8	44.7	482.8	1308.1	225.8	2061.4
1913	5.1	73.5	74.2	156.4	288.3	475.2	428.9	328.8	218.4	179.7	18.9	24.5	78.6	518.9	1451.3	223.1	2271.9
1914	2.6	59.7	57.1	185.5	247.4	302.3	375.4	395.6	213.2	67.1	7.6	28.2	62.3	490.0	1286.5	102.9	1941.7
1915	8.6	36.4	78.2	131.4	397.2	362.3	448.1	410.7	236.8	131.0	34.2	1.2	45.0	606.8	1457.9	166.4	2276.1
1916	8.2	15.8	30.5	159.0	184.7	379.4	348.6	376.2	318.2	283.9	49.0	2.6	24.0	374.2	1422.4	335.5	2156.1
1917	2.4	65.2	29.2	140.8	162.8	421.7	408.4	297.0	287.1	243.9	40.6	.8	67.6	332.8	1414.2	285.3	2099.9
1918	3.5	6.0	76.3	108.7	233.8	525.6	508.7	487.7	271.2	50.1	6.4	1.9	9.5	418.8	1793.2	58.4	2279.9
1919	21.9	14.9	18.7	105.0	189.6	372.6	366.6	298.3	291.8	108.3	48.9	.9	36.8	313.3	1329.3	158.1	1837.5
1920	2.9	37.3	163.5	98.6	167.8	306.6	312.7	386.7	331.4	130.9	4.0	1.7	40.2	429.9	1337.4	136.6	1944.1
1921	32.9	12.5	107.7	178.4	241.4	400.5	432.8	389.4	292.8	143.9	7.0	5.3	45.4	527.5	1515.5	156.2	2244.6
1922	11.5	3.8	37.8	89.4	144.6	486.3	341.1	410.3	260.1	104.6	16.2	4.4	15.3	271.8	1497.8	125.2	1910.1
1923	.1	66.1	23.4	145.0	227.8	419.2	345.3	328.0	257.7	102.4	31.7	3.8	66.2	396.2	1350.2	137.9	1950.5
1924	5.7	21.8	9.7	133.9	213.7	360.1	464.8	347.3	283.1	105.8	125.5	.5	27.5	357.3	1455.3	231.8	2071.9
1925	17.3	18.6	38.6	160.9	324.9	279.6	359.6	335.8	266.1	141.9	14.9	.3	35.9	524.4	1241.1	157.1	1958.5
1926	26.9	23.1	126.0	100.5	196.4	341.4	503.2	357.1	238.2	135.1	9.9	28.8	50.0	422.9	1439.9	173.8	2086.6
1927	34.6	68.1	45.3	176.7	207.5	364.6	405.5	318.7	394.3	122.5	18.0	.0	102.7	429.5	1483.1	140.5	2155.8
1928	10.7	17.7	30.2	90.6	267.7	399.5	378.6	378.5	242.0	239.1	13.0	1.2	28.4	388.5	1398.6	253.3	2068.8
1929	54.7	8.7	66.2	189.8	312.8	488.3	377.5	346.7	248.4	198.3	8.2	24.1	63.4	568.8	1460.9	230.6	2323.7
1930	14.2	33.9	69.6	119.7	162.6	452.2	343.8	353.7	256.9	93.7	131.3	1.7	48.1	351.9	1406.6	226.7	2033.3
1931	3.9	41.1	40.5	125.2	239.4	406.2	491.5	265.6	277.1	170.7	37.9	14.2	45.0	405.1	1440.4	222.8	2113.3
1932	9.4	33.7	44.1	119.2	316.0	398.3	378.8	344.5	250.7	77.2	104.6	11.3	43.1	479.3	1372.3	193.1	2087.8
1933	11.9	25.6	15.0	147.9	217.2	364.7	364.7	473.0	222.3	117.4	4.8	4.0	37.5	380.1	1424.7	126.2	1968.5
1934	10.1	69.0	18.0	157.2	256.0	532.6	414.4	298.8	236.2	173.5	57.2	10.3	79.1	431.2	1482.0	241.0	2233.3
1935	5.7	35.6	37.1	81.2	157.1	446.5	308.1	478.8	258.5	43.6	9.3	.9	41.3	275.4	1491.9	53.8	1862.4

NORTH EAST INDIA AREA 267444 SQ.KM NO OF SUBDIVISIONS 4

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	9.7	40.3	52.0	125.9	384.1	370.9	434.3	341.8	294.6	154.8	14.2	9.2	50.0	562.0	1441.6	178.2	2231.8
1937	2.2	63.9	12.2	55.2	276.9	357.3	328.2	424.1	263.8	154.2	11.1	21.7	66.1	344.3	1373.4	187.0	1970.8
1938	22.0	18.4	66.5	108.8	296.8	400.7	371.6	413.3	287.1	121.5	53.5	.5	40.4	472.1	1472.7	175.5	2160.7
1939	4.0	29.9	19.5	97.8	209.6	398.3	431.2	298.7	330.8	179.0	13.6	2.3	33.9	326.9	1459.0	194.9	2014.7
1940	1.2	44.9	149.7	37.2	266.1	346.0	348.3	354.0	317.2	94.5	15.6	12.4	46.1	453.0	1365.5	122.5	1987.1
1941	29.1	29.1	29.0	149.8	351.2	484.8	375.5	324.5	245.3	179.9	43.3	5.2	58.2	530.0	1430.1	228.4	2246.7
1942	4.1	18.3	65.0	176.2	257.4	417.7	314.4	366.4	386.6	83.1	59.1	.0	22.4	498.6	1485.1	142.2	2148.3
1943	48.2	35.6	93.5	159.8	200.9	375.8	379.1	374.4	325.2	83.3	3.5	1.4	83.8	454.2	1454.5	88.2	2080.7
1944	50.9	19.1	46.9	106.3	250.8	336.6	378.7	366.3	306.8	83.4	2.5	3.6	70.0	404.0	1388.4	89.5	1951.9
1945	42.5	30.3	42.3	109.1	233.6	392.1	363.7	371.4	261.0	225.5	6.9	10.2	72.8	385.0	1388.2	242.6	2088.6
1946	.4	15.9	92.8	192.4	225.6	402.9	471.2	279.3	258.8	348.1	14.3	11.9	16.3	510.8	1412.2	374.3	2313.6
1947	3.4	7.1	53.6	137.7	267.6	443.2	498.8	336.0	348.8	198.6	2.5	24.3	10.5	458.9	1626.8	225.4	2321.6
1948	30.3	44.4	44.9	169.2	442.7	370.6	416.2	366.1	309.5	189.1	82.2	2.8	74.7	656.8	1462.4	274.1	2468.0
1949	13.5	14.3	35.4	262.9	321.1	417.3	374.6	376.3	310.7	136.8	7.9	6.5	27.8	619.4	1478.9	151.2	2277.3
1950	7.5	36.0	51.6	58.3	206.0	509.1	350.1	431.8	208.4	150.4	82.9	2.4	43.5	315.9	1499.4	235.7	2094.5
1951	2.1	.5	44.1	139.7	185.4	480.4	488.6	335.8	184.2	229.5	39.4	2.7	2.6	369.2	1489.0	271.6	2132.4
1952	3.7	5.0	68.4	152.9	321.8	332.8	484.3	353.4	304.4	280.6	38.9	.6	8.7	543.1	1474.9	320.1	2346.8
1953	22.6	18.6	101.7	89.2	271.9	393.9	417.0	331.6	393.7	96.9	25.9	4.5	41.2	462.8	1536.2	127.3	2167.5
1954	12.1	43.8	17.9	101.1	244.6	415.5	380.7	373.5	236.8	169.5	.5	20.5	55.9	363.6	1406.5	190.5	2016.5
1955	6.8	5.9	84.8	136.0	213.5	374.7	497.3	335.6	230.9	141.4	116.7	5.3	12.7	434.3	1438.5	263.4	2148.9
1956	19.0	10.7	96.6	109.8	365.0	574.2	371.9	405.8	253.1	159.5	39.5	9.5	29.7	571.4	1605.0	208.5	2414.6
1957	62.9	31.0	17.0	79.9	215.7	366.3	335.8	305.0	255.0	88.4	6.3	3.8	93.9	312.6	1262.1	98.5	1767.1
1958	13.6	34.1	12.6	123.1	327.2	278.8	315.2	375.7	289.4	136.8	5.1	7.1	47.7	462.9	1259.1	149.0	1918.7
1959	36.9	40.0	85.4	79.5	244.3	333.9	309.1	297.4	289.0	357.2	4.6	.7	76.9	409.2	1229.4	362.5	2078.0
1960	.2	6.0	39.4	27.9	229.8	327.3	477.9	331.6	393.5	96.9	28.9	2.0	6.2	297.1	1530.3	127.8	1961.4
1961	10.3	37.3	157.1	75.1	246.7	363.3	314.1	310.0	272.7	111.9	23.2	2.8	47.6	478.9	1260.1	137.9	1924.5
1962	16.2	23.9	11.2	123.3	206.4	408.6	293.9	377.2	166.2	127.2	2.0	1.6	40.1	340.9	1245.9	130.8	1757.7
1963	2.2	4.4	43.6	130.5	224.9	437.9	404.9	366.1	234.6	174.1	17.7	2.8	6.6	399.0	1443.5	194.6	2043.7
1964	5.6	18.3	49.4	182.0	214.3	362.4	484.1	269.1	299.9	205.7	19.2	5.4	23.9	445.7	1415.5	230.3	2115.4
1965	2.1	55.2	54.4	83.5	190.6	421.6	379.5	365.4	250.6	97.9	30.9	15.9	57.3	328.5	1417.1	144.7	1947.6
1966	23.6	6.0	16.2	82.3	217.1	501.2	374.2	401.0	263.7	152.9	38.7	24.6	29.6	315.6	1540.1	216.2	2101.5
1967	30.1	25.1	98.2	115.9	178.8	292.1	369.5	282.4	327.7	106.2	9.6	1.6	55.2	392.9	1271.7	117.4	1837.2
1968	14.7	20.3	56.1	97.1	210.5	441.7	515.6	394.9	187.2	133.9	29.8	.9	35.0	363.7	1539.4	164.6	2102.7
1969	11.4	1.8	68.9	138.6	174.0	393.8	377.4	388.9	209.5	81.5	27.1	2.2	13.2	381.5	1369.6	110.8	1875.1
1970	40.0	35.0	57.8	114.5	195.7	429.3	441.6	303.5	317.3	235.1	47.4	1.3	75.0	368.0	1491.7	283.8	2218.5
1971	16.0	15.6	25.1	191.3	201.7	360.0	384.1	393.8	235.9	204.7	78.3	2.7	31.6	418.1	1373.8	285.7	2109.2
1972	6.5	30.9	40.4	126.1	189.6	355.2	329.5	317.5	205.3	66.2	7.1	1.3	37.4	356.1	1207.5	74.6	1675.6
1973	9.0	48.7	39.9	147.4	274.6	463.5	297.3	317.4	333.6	171.8	84.0	65.5	57.7	461.9	1411.8	321.3	2252.7
1974	16.0	2.8	82.2	138.8	216.2	366.9	646.4	395.0	287.3	178.2	28.1	1.5	18.8	437.2	1695.6	207.8	2359.4
1975	7.5	21.2	18.0	105.1	212.8	261.2	464.8	271.9	279.5	158.9	49.4	.9	28.7	335.9	1277.4	209.2	1851.2
1976	6.7	37.4	85.6	144.6	169.6	428.2	432.8	318.7	173.0	54.8	16.4	4.6	44.1	399.8	1352.7	75.8	1872.4
1977	8.5	20.2	37.8	282.1	261.6	392.9	422.2	382.5	187.4	143.6	45.1	28.7	28.7	581.5	1385.0	217.4	2212.6
1978	1.8	10.2	40.3	92.0	226.6	359.0	327.2	294.2	350.6	92.4	34.0	1.9	12.0	358.9	1331.0	128.3	1830.2
1979	6.6	15.0	44.9	71.4	110.4	262.8	476.8	251.5	356.0	128.1	23.7	35.7	21.6	226.7	1347.1	187.5	1782.9
1980	7.4	30.6	83.7	111.1	266.5	315.8	389.3	299.7	209.5	189.3	.3	1.2	38.0	461.3	1214.3	190.8	1904.4
1981	26.7	35.1	77.3	164.2	270.2	239.2	460.2	310.9	214.8	32.8	5.3	38.9	61.8	511.7	1225.1	77.0	1875.6
1982	1.5	37.8	51.9	195.9	114.6	335.9	326.4	335.7	224.9	41.6	35.5	6.7	39.3	362.4	1222.9	83.8	1708.4
1983	17.6	37.0	97.3	159.8	203.8	279.4	406.5	340.5	302.1	199.1	12.1	27.6	54.6	460.9	1328.5	238.8	2082.8
1984	13.9	4.2	9.5	107.9	268.2	415.2	423.8	329.0	316.1	120.1	3.7	14.3	18.1	385.6	1484.1	138.1	2025.9
1985	5.8	29.2	69.7	122.1	226.4	386.0	393.6	275.2	254.0	75.3	10.3	8.2	35.0	418.2	1308.8	93.8	1855.8
1986	7.7	11.5	20.5	195.1	160.5	280.3	339.5	291.5	333.7	244.8	77.6	8.3	19.2	376.1	1245.0	330.7	1971.0
1987	6.3	20.5	78.9	144.0	133.6	324.9	464.7	410.9	390.4	76.6	34.0	5.9	26.8	356.5	1590.9	116.5	2090.7
1988	4.9	28.1	72.3	96.5	326.5	360.7	499.0	509.9	273.2	187.9	136.3	9.5	33.0	495.3	1642.8	333.7	2504.8
1989	6.8	32.3	25.1	120.7	218.1	348.0	559.5	276.3	360.6	231.3	12.1	9.4	39.1	363.9	1544.4	252.8	2200.2
1990	4.2	46.7	98.5	214.0	229.7	355.4	390.0	254.3	312.1	175.8	36.7	6.3	50.9	542.2	1311.8	218.8	2123.7
MEAN	14.6	28.4	61.3	131.0	233.4	382.6	398.3	356.3	282.0	140.4	29.2	8.5	43.0	425.8	1419.2	178.1	2066.0
PER ANN	.7	1.4	3.0	6.3	11.3	18.5	19.3	17.2	13.6	6.8	1.4	.4	2.1	20.6	68.7	8.6	100.0
STD	13.2	18.2	34.3	44.3	59.1	67.1	64.3	59.1	57.0	64.1	29.1	11.2	22.5	83.8	121.3	73.1	177.7
COV	90.7	63.9	55.9	33.8	25.3	17.5	16.1	16.6	20.2	45.6	99.9	132.1	52.3	19.7	8.5	41.1	8.6
1991	17.9	30.4	61.8	117.6	313.9	376.2	343.8	270.5	393.5	164.2	27.9	49.2	48.3	493.3	1384.0	241.3	2166.9
1992	5.4	48.8	35.1	100.4	194.8	203.9	349.5	302.0	281.5	138.9	13.1	16.8	54.2	330.3	1136.9	168.8	1690.2
1993	15.4	108.5	77.5	149.5	405.1	451.0	508.1	418.6	362.4	106.8	16.4	1.0	123.9	632.1	1740.1	124.2	2620.3
1994	16.0	61.2	138.7	177.0	188.6	337.8	337.3	339.4	203.1	110.2	14.9	.3	77.2	504.3	1217.6	125.4	1924.5

SOUTH PENINSULAR INDIA AREA 442908 SQ.KM NO OF SUBDIVISIONS 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	51.5	10.7	33.9	42.7	87.3	161.1	210.7	98.7	150.5	101.3	159.8	10.8	62.2	163.9	621.0	271.9	1119.0
1872	.4	4.1	3.3	30.0	96.8	181.8	222.2	163.2	174.4	157.6	152.0	60.0	4.5	130.1	741.6	369.6	1245.8
1873	.1	39.3	2.3	50.5	71.2	150.0	162.7	134.1	111.1	254.3	46.1	21.1	39.4	124.0	557.9	321.5	1042.8
1874	.3	6.9	1.4	22.5	191.5	223.7	231.7	112.4	248.5	241.9	78.3	22.7	7.2	215.4	816.3	342.9	1381.8
1875	5.5	2.1	14.7	28.6	60.8	175.8	170.1	152.0	123.3	153.0	34.1	20.5	7.6	104.1	621.2	207.6	940.5
1876	.1	.0	15.7	21.6	51.2	139.6	185.2	129.2	69.8	47.0	33.1	12.8	.1	88.5	523.8	92.9	705.3
1877	3.8	5.6	27.8	22.9	96.1	174.7	77.7	136.1	207.2	259.7	87.5	75.9	9.4	146.8	595.7	423.1	1175.0
1878	6.0	.0	6.0	50.7	84.7	188.2	219.9	300.2	229.6	191.2	80.6	63.7	6.0	141.4	937.9	335.5	1420.8
1879	8.4	7.3	31.5	14.6	197.8	147.4	198.1	171.4	94.3	164.0	100.0	19.7	15.7	243.9	611.2	283.7	1154.5
1880	4.5	5.7	5.0	42.6	89.4	163.8	161.2	126.0	91.8	183.3	234.8	44.6	10.2	137.0	542.8	462.7	1152.7
1881	5.2	.0	13.7	12.8	69.5	110.1	84.9	216.2	152.5	64.6	146.5	30.4	5.2	96.0	563.7	241.5	906.4
1882	24.1	1.0	4.0	19.6	111.5	179.1	264.9	149.8	155.4	143.9	233.7	31.8	25.1	135.1	749.2	409.4	1318.8
1883	1.7	10.6	16.7	27.1	77.2	166.3	202.9	189.3	75.7	271.6	130.9	51.0	12.3	121.0	634.2	453.5	1221.0
1884	8.4	1.7	4.1	13.8	45.4	110.7	119.0	176.2	124.4	221.1	158.5	98.8	10.1	63.3	530.3	478.4	1082.1
1885	1.6	1.0	15.9	8.9	61.5	209.6	192.8	105.5	131.4	199.3	127.0	95.2	2.6	86.3	639.3	421.5	1149.7
1886	4.6	.2	10.0	11.7	147.4	173.4	237.9	184.2	138.3	220.1	93.7	29.5	4.8	169.1	733.8	343.3	1251.0
1887	.0	1.7	10.2	32.2	59.0	233.3	148.6	141.4	125.8	248.3	163.3	70.6	1.7	101.4	649.1	482.2	1234.4
1888	2.4	.8	1.3	29.4	117.9	202.5	155.7	133.5	120.4	134.8	181.8	44.7	3.2	148.6	612.1	361.3	1125.2
1889	2.8	.6	7.7	44.5	59.5	210.9	199.1	174.4	249.5	209.4	45.8	42.2	3.4	111.7	833.9	297.4	1246.4
1890	3.1	3.8	14.6	57.6	66.7	179.1	181.8	125.7	114.4	156.8	106.4	17.8	6.9	138.9	601.0	281.0	1027.8
1891	3.9	22.8	17.8	35.0	55.7	143.3	148.3	102.0	78.4	208.8	56.7	46.1	26.7	108.5	472.0	311.6	918.8
1892	.6	7.1	5.5	57.0	82.3	162.2	238.0	270.7	129.4	246.4	27.5	18.2	7.7	144.8	800.3	292.1	1244.9
1893	5.6	13.8	47.9	34.8	91.3	199.2	200.8	99.9	120.2	194.9	258.6	8.5	19.4	174.0	620.1	462.0	1275.5
1894	7.0	12.5	25.8	53.9	56.5	128.9	152.6	188.8	116.6	230.0	85.5	16.9	19.5	136.2	586.9	332.4	1075.0
1895	.5	1.0	3.2	67.4	58.7	148.6	201.8	154.8	161.1	245.7	56.5	52.8	1.5	129.3	666.3	355.0	1152.1
1896	6.7	.0	4.4	16.2	73.0	199.7	164.6	178.0	120.2	73.6	176.6	64.8	6.7	93.6	662.5	315.0	1077.8
1897	5.2	27.6	12.3	29.5	69.5	188.6	197.6	210.1	261.5	115.7	50.7	10.1	32.8	111.3	857.8	176.5	1178.4
1898	4.1	14.3	2.6	42.0	64.6	162.9	173.7	98.4	220.6	185.5	220.5	48.0	18.4	109.2	655.6	454.0	1237.2
1899	2.6	5.9	2.8	132.9	65.9	136.5	62.5	83.7	146.3	164.8	21.2	11.5	8.5	201.6	429.0	197.5	836.6
1900	7.9	.6	1.2	76.1	48.7	175.4	226.0	128.3	167.1	141.8	56.6	32.2	8.5	126.0	696.8	230.6	1061.9
1901	13.7	55.1	9.5	34.8	67.1	177.6	157.0	113.7	149.1	138.0	180.6	55.7	68.8	111.4	597.4	374.3	1151.9
1902	23.0	3.7	14.5	27.1	64.2	128.9	231.3	147.4	189.5	264.5	109.9	97.2	26.7	105.8	697.1	471.6	1301.2
1903	12.1	3.2	.1	14.1	123.7	160.2	254.1	181.7	220.3	169.8	221.6	85.2	15.3	137.9	816.3	476.6	1446.1
1904	19.7	.3	5.2	21.9	125.4	203.5	186.2	84.5	94.7	175.3	10.3	23.0	20.0	152.5	568.9	208.6	950.0
1905	2.7	10.1	18.6	35.0	84.2	170.6	112.7	180.4	85.9	204.4	54.3	1.5	12.8	137.8	549.6	260.2	960.4
1906	37.4	13.7	10.6	6.3	35.7	160.9	217.3	226.0	112.8	143.9	88.8	113.0	51.1	52.6	717.0	345.7	1166.4
1907	6.5	1.3	16.6	76.4	35.7	184.3	191.8	168.4	126.5	98.9	131.8	46.9	7.8	128.7	671.0	277.6	1085.1
1908	25.0	12.4	14.1	26.1	59.7	125.8	226.3	131.1	184.9	167.5	24.2	6.6	37.4	99.9	668.1	198.3	1003.7
1909	62.9	5.2	8.6	64.2	159.1	151.5	195.2	235.9	153.6	94.9	43.7	25.0	68.1	231.9	736.2	163.6	1199.8
1910	2.3	8.5	4.6	30.4	47.7	183.0	216.7	209.6	147.5	255.6	122.6	.3	10.8	82.7	756.8	378.5	1228.8
1911	1.0	.7	7.6	25.6	75.0	183.0	175.9	81.1	106.6	145.5	123.0	66.4	1.7	108.2	546.6	334.9	991.4
1912	2.4	3.4	4.9	27.7	55.3	171.7	209.6	193.0	153.0	236.3	156.8	10.3	5.8	87.9	727.3	403.4	1224.4
1913	1.1	4.6	2.2	17.9	76.2	124.4	192.7	76.1	134.7	228.8	80.6	60.2	5.7	96.3	527.9	369.6	999.5
1914	1.7	1.0	3.1	26.6	59.4	141.4	218.9	177.4	174.0	170.1	93.0	63.7	2.7	89.1	711.7	326.8	1130.3
1915	37.0	9.7	47.0	35.8	61.9	188.6	216.7	135.4	193.0	109.9	233.9	21.5	46.7	144.7	733.7	365.3	1290.4
1916	.0	2.8	2.1	20.6	84.8	180.4	256.9	172.1	166.8	246.8	144.6	17.9	2.8	107.5	776.2	409.3	1295.8
1917	3.6	31.9	18.9	10.2	80.2	214.6	128.1	209.1	220.3	186.5	138.6	22.9	35.5	109.3	772.1	348.0	1264.9
1918	43.4	4.3	15.0	16.3	164.1	120.2	73.0	108.3	103.3	50.0	249.7	46.8	47.7	195.4	404.8	346.5	994.4
1919	17.5	2.7	12.6	23.8	95.3	147.1	209.4	114.6	191.5	140.1	223.2	64.0	20.2	131.7	662.6	427.3	1241.8
1920	62.9	2.8	4.0	48.3	48.2	189.3	159.2	111.1	144.6	188.7	194.2	2.2	65.7	100.5	604.2	385.1	1155.5
1921	67.6	.3	2.1	62.8	33.1	130.1	216.3	192.9	122.4	221.9	79.2	22.5	67.9	98.0	661.7	323.6	1151.2
1922	27.4	9.1	4.1	25.2	96.7	156.0	220.1	118.5	82.8	180.5	256.6	25.1	36.5	126.0	577.4	462.2	1202.1
1923	53.7	11.0	28.6	18.8	43.5	131.6	220.9	159.8	173.3	178.1	72.1	54.0	64.7	90.9	685.6	304.2	1145.4
1924	11.3	.6	16.8	32.6	69.7	183.5	289.4	156.8	207.3	89.1	158.6	21.8	11.9	119.1	837.0	269.5	1237.5
1925	7.6	2.5	28.4	40.2	122.1	167.2	180.0	187.5	96.0	170.2	159.1	102.7	10.1	190.7	630.7	432.0	1263.5
1926	38.1	2.2	27.4	32.9	59.6	141.4	201.1	149.6	164.2	121.8	58.6	9.5	40.3	119.9	656.3	189.9	1006.4
1927	11.4	12.9	18.9	27.4	74.6	180.7	212.9	118.8	188.4	72.4	163.7	11.5	24.3	120.9	700.8	247.6	1093.6
1928	9.6	42.7	11.3	41.7	46.3	140.8	173.6	170.6	92.6	250.2	78.4	40.0	52.3	99.3	577.6	368.6	1097.8
1929	8.5	25.1	9.8	81.0	62.5	230.0	159.6	106.8	172.9	169.4	120.6	42.1	33.6	153.3	669.3	332.1	1188.3
1930	20.4	26.5	14.8	20.6	181.6	175.4	116.7	93.0	162.3	351.7	145.6	41.4	46.9	217.0	547.4	538.7	1350.0
1931	10.1	.0	1.8	39.1	67.4	147.6	190.8	199.4	152.1	145.8	151.9	132.2	10.1	108.3	689.9	429.9	1238.2
1932	.4	26.6	6.4	32.5	151.9	107.3	171.9	178.3	125.5	214.0	184.9	29.7	27.0	190.8	583.0	428.6	1229.4
1933	.8	2.5	23.9	40.4	181.5	169.5	211.1	212.1	145.8	230.6	70.3	67.2	3.3	245.8	738.5	368.1	1355.7
1934	38.5	.8	5.7	35.3	43.7	202.4	155.6	118.2	55.0	223.4	82.5	8.6	39.3	84.7	531.2	314.5	969.7
1935	20.0	1.4	6.8	40.4	23.6	141.6	174.5	181.3	118.7	205.7	56.0	28.6	21.4	70.8	616.1	290.3	998.6

SOUTH PENINSULAR INDIA AREA 442908 SQ.KM NO OF SUBDIVISIONS 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	2.4	43.2	33.5	22.2	123.4	180.2	188.7	110.8	147.6	130.0	182.7	26.0	45.6	179.1	627.3	338.7	1190.7
1937	4.6	19.0	16.9	100.1	54.4	119.2	234.5	113.5	115.5	203.1	130.2	14.0	23.6	171.4	582.7	347.3	1125.0
1938	.0	28.3	23.7	34.3	64.3	167.7	177.9	206.2	201.1	78.9	56.2	19.9	28.3	122.3	752.9	155.0	1058.5
1939	16.6	2.1	19.7	94.8	41.5	153.1	155.0	136.9	124.3	278.4	183.1	4.5	18.7	156.0	569.3	466.0	1210.0
1940	.6	.8	17.0	47.4	132.9	173.0	200.4	192.9	127.2	189.1	236.2	37.6	1.4	197.3	693.5	462.9	1355.1
1941	10.7	5.6	1.9	41.0	93.7	187.1	113.3	125.5	172.3	162.0	122.4	72.3	16.3	136.6	598.2	356.7	1107.8
1942	.1	2.2	4.1	55.4	64.9	199.9	174.3	143.2	102.7	140.9	61.4	85.7	2.3	124.4	620.1	288.0	1034.8
1943	55.9	10.5	7.8	53.1	219.9	170.0	175.9	91.6	140.2	306.4	99.5	21.8	66.4	280.8	577.7	427.7	1352.6
1944	9.4	20.5	72.3	21.7	62.2	171.1	200.8	115.1	130.4	234.4	166.8	49.2	29.9	156.2	617.4	450.4	1253.9
1945	2.1	2.5	2.3	49.3	49.9	129.3	239.1	143.4	109.4	129.1	112.1	6.1	4.6	101.5	621.2	247.3	974.6
1946	5.9	1.9	29.9	48.3	67.8	193.8	176.4	189.7	139.7	155.0	277.1	153.4	7.8	146.0	699.6	585.5	1438.9
1947	30.4	12.0	25.3	54.3	38.1	142.2	211.3	235.1	192.2	144.5	25.9	40.4	42.4	117.7	780.8	210.8	1151.7
1948	20.8	6.1	13.0	34.9	87.3	173.4	178.4	164.1	109.8	121.0	190.4	16.9	26.9	135.2	625.7	328.3	1116.1
1949	3.4	.8	.7	38.4	144.3	157.5	241.4	196.9	191.9	170.4	57.0	1.9	4.2	183.4	787.7	229.3	1204.6
1950	.4	31.0	11.1	9.4	78.5	141.4	228.4	151.4	165.5	149.6	95.2	14.1	31.4	99.0	686.7	258.9	1076.0
1951	4.8	.3	20.8	78.2	89.5	176.8	216.0	101.2	143.2	114.1	120.7	4.5	5.1	188.5	637.2	239.3	1070.1
1952	4.9	21.1	6.0	26.2	123.6	141.0	142.5	129.5	51.5	174.0	14.2	103.3	26.0	155.8	464.5	291.5	937.8
1953	9.4	5.1	3.0	69.7	34.5	132.2	294.1	115.3	142.7	313.0	43.8	6.1	14.5	107.2	684.3	362.9	1168.9
1954	27.6	1.3	33.3	43.1	91.4	153.6	236.0	184.6	109.7	234.5	10.8	58.7	28.9	167.8	683.9	304.0	1184.6
1955	11.4	2.5	11.5	62.2	201.6	166.1	140.3	165.2	193.4	207.2	88.8	64.8	13.9	275.3	665.0	360.8	1315.0
1956	9.3	1.7	1.5	56.1	106.0	204.5	193.1	128.2	156.6	289.1	155.3	29.5	11.0	163.6	682.4	473.9	1330.9
1957	.7	3.7	14.5	19.8	117.2	220.9	193.1	149.1	83.7	172.2	133.3	27.1	4.4	151.5	646.8	332.6	1135.3
1958	5.8	7.1	14.5	51.7	116.4	162.6	175.8	206.8	112.3	198.1	131.3	12.6	12.9	182.6	657.5	342.0	1195.0
1959	2.4	23.8	.8	50.8	93.5	216.0	261.9	137.2	160.8	141.7	96.6	25.8	26.2	145.1	775.9	264.1	1211.3
1960	2.8	3.7	14.5	41.3	114.1	131.7	221.0	94.9	221.7	118.0	218.1	14.2	6.5	169.9	669.3	350.3	1196.0
1961	27.8	14.5	3.3	30.0	136.3	247.3	289.5	209.1	157.1	194.1	81.0	18.4	42.3	169.6	903.0	293.5	1408.4
1962	7.7	16.7	8.9	50.3	154.0	92.0	208.1	202.0	189.9	306.5	45.7	61.0	24.4	213.2	692.0	413.2	1342.8
1963	29.8	4.0	19.6	55.1	52.0	129.3	193.5	204.1	119.6	206.4	82.0	57.9	33.8	126.7	646.5	346.3	1153.3
1964	.7	.6	11.2	15.1	51.9	123.1	252.0	187.4	230.9	156.8	131.7	28.5	1.3	78.2	793.4	317.0	1189.9
1965	3.8	3.9	4.0	38.9	47.7	135.3	148.6	175.2	119.2	73.0	75.2	106.5	7.7	90.6	578.3	254.7	931.3
1966	13.6	2.3	7.8	24.7	74.7	143.0	197.6	140.0	176.4	199.2	233.9	56.0	15.9	107.2	657.0	489.1	1269.2
1967	20.0	.1	30.8	21.8	64.4	160.2	242.2	133.6	105.3	130.9	72.3	92.8	20.1	117.0	641.3	296.0	1074.4
1968	2.4	8.4	25.0	71.3	39.8	156.2	242.1	81.5	169.9	135.0	101.5	34.2	10.8	136.1	649.7	270.7	1067.3
1969	.9	4.0	3.9	31.8	113.1	128.2	201.7	151.2	87.4	253.2	140.1	75.8	4.9	148.8	568.5	469.1	1191.3
1970	5.7	5.8	10.1	47.8	118.9	160.9	174.9	221.2	134.2	183.7	90.8	4.9	11.5	176.8	691.2	279.4	1158.9
1971	11.4	11.0	20.6	62.5	107.8	175.3	165.1	172.7	156.4	174.6	36.2	63.7	22.4	190.9	669.5	274.5	1157.3
1972	1.8	4.0	.2	22.9	145.2	143.6	156.5	84.0	154.6	247.0	90.0	96.5	5.8	168.3	538.7	433.5	1146.3
1973	.0	.1	1.8	23.6	57.7	150.5	168.0	194.6	122.6	211.9	59.1	53.5	.1	83.1	635.7	324.5	1043.4
1974	.7	9.9	7.6	34.5	103.7	103.6	233.7	139.7	244.8	169.6	42.6	7.5	10.6	145.8	721.8	219.7	1097.9
1975	2.0	4.7	29.6	23.6	74.3	228.7	224.1	207.6	201.5	238.5	117.3	17.0	6.7	127.5	861.9	372.8	1368.9
1976	.5	.1	8.3	52.8	38.6	90.3	195.5	188.9	81.1	134.8	234.9	19.0	.6	99.7	555.8	388.7	1044.8
1977	1.2	6.5	11.3	49.2	125.8	166.6	199.9	159.2	111.7	266.7	240.7	9.2	7.7	186.3	637.4	516.6	1348.0
1978	5.3	18.7	4.4	38.7	107.7	199.6	225.7	176.5	182.9	122.8	173.4	84.1	24.0	150.8	784.7	380.3	1339.8
1979	.8	27.9	6.2	25.7	82.1	167.3	157.0	114.8	196.7	116.1	278.5	28.4	28.7	114.0	635.8	423.0	1201.5
1980	.6	.8	4.2	44.6	52.3	194.0	190.1	161.7	109.3	132.3	142.3	33.5	1.4	101.1	655.1	308.1	1065.7
1981	12.0	2.1	24.3	29.9	76.0	202.0	185.0	184.1	224.4	199.2	80.7	31.2	14.1	130.2	795.5	311.1	1250.9
1982	.7	.0	5.6	26.6	66.8	165.4	161.6	152.5	101.0	138.4	141.6	16.3	.7	99.0	580.5	296.3	976.5
1983	.2	1.6	3.1	5.2	66.4	141.2	204.3	247.7	252.0	142.1	65.9	118.2	1.8	74.7	845.2	326.2	1247.9
1984	19.2	80.2	62.6	51.9	35.2	150.5	208.3	82.6	131.1	135.4	79.9	35.7	99.4	149.7	572.5	251.0	1072.6
1985	44.8	4.6	11.3	27.3	53.8	183.1	149.7	149.6	113.4	147.6	110.7	58.3	49.4	92.4	595.8	316.6	1054.2
1986	39.8	22.7	10.2	24.7	50.2	159.3	109.8	174.1	144.2	132.1	115.8	23.8	62.5	85.1	587.4	271.7	1006.7
1987	7.9	.1	19.2	21.2	49.5	161.9	94.3	170.6	111.9	216.2	169.7	91.5	8.0	89.9	538.7	477.4	1114.0
1988	.0	3.9	16.8	68.2	72.0	139.7	241.1	240.4	223.2	59.7	56.9	31.4	3.9	157.0	844.4	148.0	1153.3
1989	2.3	.0	27.4	25.3	52.6	171.9	281.1	138.5	178.3	107.0	78.9	20.7	2.3	105.3	769.8	206.6	1084.0
1990	26.5	12.3	29.0	18.9	217.0	128.0	145.1	169.7	119.1	209.9	123.5	15.3	38.8	264.9	561.9	348.7	1214.3
MEAN	11.8	9.0	13.5	38.0	85.6	164.2	191.1	156.5	147.6	178.1	119.7	41.2	20.8	137.0	659.4	339.0	1156.2
PER ANN	1.0	.8	1.2	3.3	7.4	14.2	16.5	13.5	12.8	15.4	10.4	3.6	1.8	11.9	57.0	29.3	100.0
STD	15.4	12.4	12.3	20.6	42.1	30.8	44.5	44.1	45.7	60.2	65.7	31.8	19.7	44.9	98.3	91.5	132.8
COV	130.7	138.1	91.6	54.3	49.2	18.8	23.3	28.2	30.9	33.8	54.9	77.2	94.9	32.8	14.9	27.0	11.5
1991	12.1	4.1	7.0	41.3	60.7	281.6	200.9	150.5	134.4	209.5	167.0	9.4	16.2	109.0	767.4	385.9	1278.5
1992	3.5	1.7	.0	19.3	75.1	189.4	179.8	163.8	154.3	137.4	233.0	37.3	5.2	94.4	687.3	407.7	1194.6
1993	.7	3.9	9.0	21.0	59.9	159.5	206.6	134.0	120.1	243.5	150.9	113.1	4.6	89.9	620.2	507.5	1222.2
1994	10.1	25.8	5.3	39.2	63.2	176.1	224.7	136.1	81.4	258.3	172.3	21.5	35.9	107.7	618.3	452.1	1214.0

3.NORTH ASSAM AREA 56339 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	5.4	39.2	85.0	209.0	283.4	407.4	450.1	508.7	273.7	101.7	53.6	7.1	44.6	577.4	1639.9	162.4	2424.3
1872	32.1	43.4	89.1	221.9	304.4	382.2	436.6	444.3	426.1	134.4	14.7	6.1	75.5	615.4	1689.2	155.2	2535.3
1873	12.0	41.8	92.1	183.7	203.7	400.0	392.0	249.3	190.6	32.7	.4	2.5	53.8	479.5	1231.9	35.6	1800.8
1874	24.7	59.9	111.7	213.4	522.5	371.7	398.6	407.5	272.6	163.4	14.4	1.3	84.6	847.6	1450.4	179.1	2561.7
1875	52.9	27.1	103.7	264.6	169.4	515.5	395.2	475.7	141.5	43.1	16.8	15.7	80.0	537.7	1527.9	75.6	2221.2
1876	28.7	21.7	67.9	135.2	288.6	463.5	414.6	271.2	198.9	136.3	24.3	1.1	50.4	491.7	1348.2	161.7	2052.0
1877	24.3	31.3	124.9	166.8	337.0	260.4	419.8	265.6	327.2	48.9	32.5	40.0	55.6	628.7	1273.0	121.4	2078.7
1878	9.1	43.8	80.8	152.0	279.6	422.6	456.4	515.1	406.4	91.5	25.1	2.0	52.9	512.4	1800.5	118.6	2484.4
1879	12.1	16.9	23.6	140.3	494.4	471.8	571.3	421.5	303.7	116.5	1.5	10.4	29.0	658.3	1768.3	128.4	2584.0
1880	42.2	42.8	191.4	250.5	186.4	643.7	432.6	304.0	148.5	156.6	14.4	36.2	85.0	628.3	1528.8	207.2	2449.3
1881	2.8	19.0	87.3	241.4	362.5	397.2	327.1	385.6	460.4	75.8	8.2	4.2	21.8	691.2	1570.3	88.2	2371.5
1882	23.4	53.6	147.1	153.6	206.1	303.3	270.3	408.6	254.7	321.0	22.2	8.9	77.0	506.8	1236.9	352.1	2172.8
1883	23.6	11.3	63.6	140.4	406.1	267.9	386.1	378.0	256.8	51.7	3.3	23.7	34.9	610.1	1288.8	78.7	2012.5
1884	18.5	38.6	106.7	202.8	263.1	286.4	249.8	365.9	113.1	72.3	11.5	10.5	57.1	572.6	1015.2	94.3	1739.2
1885	22.1	17.3	111.2	218.6	312.0	300.5	442.7	258.6	349.1	94.6	6.1	18.1	39.4	641.8	1350.9	118.8	2150.9
1886	15.6	7.7	61.6	156.2	216.8	348.3	500.2	356.2	365.0	115.7	1.4	24.2	23.3	434.6	1569.7	141.3	2168.9
1887	55.2	15.2	119.2	171.2	288.8	507.6	248.0	327.5	277.7	53.8	1.6	.0	70.4	579.2	1360.8	55.4	2065.8
1888	32.8	38.6	124.1	228.9	369.4	296.9	425.2	202.0	212.6	40.3	8.4	.2	71.4	722.4	1136.7	48.9	1979.4
1889	36.7	50.7	67.3	166.1	369.7	623.5	400.5	340.2	339.6	85.3	10.5	1.3	87.4	603.1	1703.8	97.1	2491.4
1890	35.0	10.3	54.2	174.9	144.9	530.5	469.2	433.7	176.5	137.1	11.4	31.8	45.3	374.0	1609.9	180.3	2209.5
1891	8.9	42.5	68.0	190.2	295.6	241.3	330.7	335.8	174.9	70.0	8.3	.0	51.4	553.8	1082.7	78.3	1766.2
1892	21.8	40.2	113.3	312.9	496.2	299.7	404.2	487.1	229.1	61.7	1.9	8.7	62.0	922.4	1420.1	72.3	2476.8
1893	40.1	27.6	78.3	263.7	130.4	233.7	460.0	346.7	225.5	119.4	6.8	1.4	67.7	472.4	1265.9	127.6	1933.6
1894	10.0	64.8	68.9	160.1	378.1	424.6	248.2	396.8	407.5	210.0	33.7	17.9	74.8	607.1	1477.1	261.6	2420.6
1895	16.2	23.3	103.9	121.2	284.4	293.3	612.3	389.4	287.2	58.5	4.7	1.1	39.5	509.5	1582.2	64.3	2195.5
1896	25.5	22.7	80.2	249.3	310.2	236.7	410.6	374.2	177.0	56.6	5.5	8.0	48.2	639.7	1198.5	70.1	1956.5
1897	10.0	22.7	151.0	101.5	339.4	313.7	426.3	343.9	293.9	189.0	11.4	.3	32.7	591.9	1377.8	200.7	2203.1
1898	17.1	58.2	25.1	216.5	292.2	364.0	429.0	494.0	283.6	161.7	7.6	22.9	75.3	533.8	1570.6	192.2	2371.9
1899	19.2	58.5	93.9	201.8	317.6	462.7	379.8	452.5	336.3	110.8	18.1	11.8	77.7	613.3	1631.3	140.7	2463.0
1900	14.1	35.2	105.1	231.5	284.8	371.0	347.3	200.9	176.0	67.9	17.3	9.9	49.3	621.4	1095.2	95.1	1861.0
1901	34.4	27.4	23.2	190.5	166.6	464.1	325.2	403.0	244.2	116.1	115.2	3.4	61.8	380.3	1436.5	234.7	2113.3
1902	9.8	16.8	92.6	316.8	219.4	375.5	474.5	437.1	466.6	60.8	4.5	.1	26.6	628.8	1753.7	65.4	2474.5
1903	20.7	32.7	99.6	138.7	185.5	509.0	318.7	459.4	244.8	133.2	26.9	1.7	53.4	423.8	1531.9	161.8	2170.9
1904	18.0	44.1	58.6	390.3	343.5	315.9	369.9	469.1	204.8	93.3	34.6	1.1	62.1	792.4	1359.7	129.0	2343.2
1905	25.3	14.0	112.3	205.4	201.0	276.7	394.2	570.8	215.6	60.0	29.8	24.0	39.3	518.7	1457.3	113.8	2129.1
1906	13.4	48.9	92.0	277.9	205.4	417.2	392.1	411.5	273.0	137.5	13.9	.1	62.3	575.3	1493.8	151.5	2282.9
1907	36.3	42.9	121.6	203.5	194.3	378.2	488.2	309.3	295.1	17.7	.9	10.8	79.2	519.4	1470.8	29.4	2098.8
1908	16.2	28.6	23.4	210.2	347.3	344.9	457.8	244.4	362.2	80.0	3.4	.0	44.8	580.9	1409.3	83.4	2118.4
1909	33.3	7.9	3.8	170.1	288.2	499.5	305.1	397.7	158.3	131.2	3.2	1.6	41.2	462.1	1360.6	136.0	1999.9
1910	11.3	29.6	134.0	142.2	194.2	539.0	433.9	359.1	173.7	169.4	12.5	9.9	40.9	470.4	1505.7	191.8	2208.8
1911	52.2	24.7	68.0	190.3	353.0	384.8	473.9	365.4	313.7	233.1	35.5	4.0	76.9	611.3	1537.8	272.6	2498.6
1912	12.7	62.2	105.4	248.2	218.3	324.5	556.8	447.0	238.5	82.1	28.6	5.7	74.9	571.9	1566.8	116.4	2330.0
1913	15.2	84.5	75.8	332.1	372.5	339.3	370.7	292.0	243.2	258.1	5.5	46.1	99.7	780.4	1245.2	309.7	2435.0
1914	11.3	73.2	39.7	210.0	203.7	335.5	447.5	442.8	249.7	54.8	11.7	1.2	84.5	453.4	1475.5	67.7	2081.1
1915	4.7	54.3	82.7	165.2	508.3	441.1	562.8	401.7	242.7	82.1	11.4	5.6	59.0	756.2	1648.3	99.1	2562.6
1916	26.0	36.4	81.8	191.6	306.8	406.6	400.3	341.3	251.3	165.9	20.7	4.9	62.4	580.2	1399.5	191.5	2233.6
1917	11.4	92.0	37.3	185.9	129.4	581.1	535.4	335.3	291.3	180.3	32.5	3.9	103.4	352.6	1743.1	216.7	2415.8
1918	6.5	21.7	89.4	108.7	209.7	564.0	655.3	500.7	316.0	65.9	4.4	.8	28.2	407.8	2036.0	71.1	2543.1
1919	11.8	15.0	30.2	153.9	262.2	417.0	458.6	213.9	285.7	185.8	23.9	1.0	26.8	446.3	1375.2	210.7	2059.0
1920	11.2	38.5	214.0	148.3	214.6	397.6	298.1	389.2	288.2	110.5	1.3	5.8	49.7	576.9	1373.1	117.6	2117.3
1921	31.0	24.7	115.3	340.6	368.5	461.9	400.4	422.0	273.9	121.9	7.0	16.4	55.7	824.4	1558.2	145.3	2583.6
1922	22.9	6.3	35.9	124.7	231.3	337.6	369.8	411.5	199.0	62.6	6.3	6.2	29.2	391.9	1317.9	75.1	1814.1
1923	.6	57.5	7.5	189.4	343.1	489.7	436.8	266.3	307.0	55.2	9.7	8.6	58.1	540.0	1499.8	73.5	2171.4
1924	12.1	27.3	21.0	184.1	308.1	310.1	592.3	404.3	281.1	85.1	65.4	.0	39.4	513.2	1587.8	150.5	2290.9
1925	24.9	18.5	55.8	234.0	465.2	304.1	432.0	361.4	311.9	69.9	9.7	.4	43.4	755.0	1409.4	80.0	2287.8
1926	18.1	11.8	126.7	117.9	246.5	346.9	527.8	323.2	117.7	184.0	17.3	7.3	29.9	491.1	1315.6	208.6	2045.2
1927	30.7	63.9	89.4	194.3	228.8	393.0	364.8	315.3	429.4	101.5	17.5	.0	94.6	512.5	1502.5	119.0	2228.6
1928	8.3	19.3	55.7	142.4	316.3	414.5	359.4	410.1	269.6	207.6	32.4	5.7	27.6	514.4	1453.6	245.7	2241.3
1929	72.5	6.6	75.1	217.6	550.8	433.7	453.2	333.3	210.8	141.2	25.4	41.8	79.1	843.5	1431.0	208.4	2562.0
1930	35.7	26.4	68.9	220.1	151.7	487.3	234.2	410.9	306.3	153.3	74.5	6.8	62.1	440.7	1438.7	234.6	2176.1
1931	11.8	31.6	50.4	309.2	321.4	473.9	606.6	305.0	214.1	124.6	13.1	24.0	43.4	681.0	1599.6	161.7	2485.7
1932	28.5	36.1	48.4	126.2	385.0	466.2	357.7	350.9	284.8	110.3	70.1	26.2	64.6	559.6	1459.6	206.6	2290.4
1933	18.1	47.4	14.8	217.7	221.4	423.9	377.9	454.9	191.8	72.7	8.1	2.7	65.5	453.9	1448.5	83.5	2051.4
1934	23.2	60.0	12.0	242.5	362.8	565.8	430.6	286.9	220.3	181.2	28.1	2.7	83.2	617.3	1503.6	212.0	2416.1
1935	8.6	55.3	69.2	86.1	262.0	534.0	389.0	452.5	298.1	11.3	17.4	3.1	63.9	417.3	1673.6	31.8	2186.6

3.NORTH ASSAM AREA 56339 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	23.1	68.1	49.7	128.1	274.3	413.0	442.4	349.5	264.0	114.9	34.1	27.2	91.2	452.1	1468.9	176.2	2188.4
1937	10.5	65.6	24.0	108.5	301.7	286.7	409.8	421.4	268.0	96.9	19.9	5.5	76.1	434.2	1385.9	122.3	2018.5
1938	38.1	20.9	80.6	199.3	168.0	368.6	454.6	407.1	250.0	112.3	47.6	2.2	59.0	447.9	1480.3	162.1	2149.3
1939	3.5	33.1	13.0	105.6	244.4	487.7	360.4	195.7	348.9	148.6	.2	.4	36.6	363.0	1392.7	149.2	1941.5
1940	4.0	51.6	163.3	88.0	341.6	412.0	330.8	277.8	280.9	80.5	22.2	26.6	55.6	592.9	1301.5	129.3	2079.3
1941	10.8	27.3	67.9	225.0	411.2	401.8	275.7	302.7	326.3	85.2	16.8	12.2	38.1	704.1	1306.5	114.2	2162.9
1942	6.8	24.4	119.0	199.3	437.6	393.4	305.2	285.0	482.8	20.6	9.7	.0	31.2	755.9	1466.4	30.3	2283.8
1943	50.4	44.5	143.5	252.3	410.3	369.7	362.1	382.2	336.5	103.5	8.5	6.8	94.9	806.1	1450.5	118.8	2470.3
1944	29.9	26.1	46.2	153.5	453.0	365.9	408.3	313.3	278.5	64.6	9.4	16.8	56.0	652.7	1366.0	90.8	2165.5
1945	42.8	28.0	64.7	128.6	362.9	451.0	392.6	326.8	238.0	159.6	.0	7.8	70.8	556.2	1408.4	167.4	2202.8
1946	.0	23.9	55.3	146.1	243.3	532.4	426.3	281.6	228.2	263.3	12.3	.9	23.9	444.7	1468.5	276.5	2213.6
1947	6.9	9.2	72.3	193.8	286.4	436.1	588.4	325.6	389.8	195.9	5.9	12.9	16.1	552.5	1739.9	214.7	2523.2
1948	19.0	35.3	57.3	271.3	598.2	423.0	497.6	345.2	210.7	234.0	47.5	9.2	54.3	926.8	1476.5	290.7	2748.3
1949	23.3	22.4	84.1	319.2	419.8	462.0	351.2	444.7	367.2	139.9	18.2	25.2	45.7	823.1	1625.1	183.3	2677.2
1950	19.2	41.0	70.5	108.5	229.1	543.1	356.6	430.7	201.4	162.9	31.1	4.0	60.2	408.1	1531.8	198.0	2198.1
1951	6.0	2.1	37.5	229.9	300.5	473.8	511.9	308.9	205.5	239.4	41.2	3.5	8.1	567.9	1500.1	284.1	2360.2
1952	6.8	7.4	118.3	169.6	407.6	307.0	423.8	423.5	364.7	222.5	51.2	2.3	14.2	695.5	1519.0	276.0	2504.7
1953	37.0	20.0	232.1	137.7	352.7	380.8	478.6	286.5	383.0	131.9	1.0	12.1	57.0	722.5	1528.9	145.0	2453.4
1954	21.7	55.1	27.5	255.5	411.1	407.1	407.4	338.6	198.9	151.9	.2	30.5	76.8	694.1	1352.0	182.6	2305.5
1955	10.0	18.4	121.8	152.6	317.0	377.7	623.4	342.1	254.1	174.8	14.5	16.2	28.4	591.4	1597.3	205.5	2422.6
1956	42.5	5.7	225.2	205.7	399.0	516.0	286.6	332.6	137.5	146.1	33.9	12.5	48.2	829.9	1272.7	192.5	2343.3
1957	67.7	47.9	24.6	142.2	464.8	422.1	427.0	311.0	186.4	84.9	23.3	15.4	115.6	631.6	1346.5	123.6	2217.3
1958	22.4	33.5	8.3	184.4	452.2	284.9	316.3	458.9	219.9	162.3	3.2	17.1	55.9	644.9	1280.0	182.6	2163.4
1959	38.3	55.3	67.6	140.7	433.1	379.5	325.2	243.7	288.4	231.9	20.1	2.2	93.6	641.4	1236.8	254.2	2226.0
1960	.0	17.4	32.0	56.4	318.6	324.4	537.6	412.8	294.8	37.0	19.2	9.6	17.4	407.0	1569.6	65.8	2059.8
1961	16.7	17.7	153.4	165.5	320.3	254.4	458.1	349.9	219.5	91.9	31.8	7.5	34.4	639.2	1281.9	131.2	2086.7
1962	22.8	34.2	25.5	74.1	337.3	428.9	282.4	428.1	84.5	84.4	6.8	7.0	57.0	436.9	1223.9	98.2	1816.0
1963	9.4	7.4	45.2	186.5	260.8	453.7	482.8	441.0	154.1	84.3	42.0	7.4	16.8	492.5	1531.6	133.7	2174.6
1964	15.7	25.6	83.3	206.7	239.0	413.4	528.3	309.9	247.7	157.1	10.9	17.5	41.3	529.0	1499.3	185.5	2255.1
1965	5.8	54.3	61.0	175.2	342.1	428.7	388.7	332.4	279.1	55.6	71.9	5.2	60.1	578.3	1428.9	132.7	2200.0
1966	20.8	22.4	27.7	158.4	332.2	538.0	391.5	469.3	235.0	57.9	39.8	4.7	43.2	518.3	1633.8	102.4	2297.7
1967	10.7	41.0	119.5	100.6	219.2	361.4	372.0	222.4	321.2	41.1	18.7	3.3	51.7	439.3	1277.0	63.1	1831.1
1968	19.3	25.3	55.6	178.8	382.8	410.0	394.6	356.1	231.3	102.4	1.7	.0	44.6	617.2	1392.0	104.1	2157.9
1969	28.1	1.1	110.6	147.7	245.2	412.6	359.6	441.1	163.7	47.1	25.5	8.0	29.2	503.5	1377.0	80.6	1990.3
1970	37.3	48.9	74.2	183.8	355.7	371.8	446.7	424.3	225.2	164.5	13.9	.0	86.2	613.7	1468.0	178.4	2346.3
1971	17.9	20.1	46.3	160.3	199.4	319.6	472.4	297.4	207.5	222.7	74.0	6.1	38.0	406.0	1296.9	302.8	2043.7
1972	20.2	16.2	51.1	276.5	336.7	385.1	475.4	219.1	217.8	36.1	6.0	6.0	36.4	664.3	1297.4	48.1	2046.2
1973	15.3	68.8	25.6	236.4	313.1	497.4	270.1	301.8	347.2	124.2	24.4	30.4	84.1	575.1	1416.5	179.0	2254.7
1974	50.2	9.4	44.8	233.6	338.5	445.6	656.2	431.1	308.7	163.5	14.3	5.6	59.6	616.9	1841.6	183.4	2701.5
1975	15.4	20.4	24.1	168.5	293.3	259.0	437.1	350.6	228.4	119.6	5.1	.8	35.8	485.9	1275.1	125.5	1922.3
1976	3.1	51.2	84.5	202.7	178.8	446.6	730.7	288.9	139.3	40.5	13.0	20.9	54.3	466.0	1605.5	74.4	2200.2
1977	11.9	30.1	74.6	369.0	371.0	432.0	567.6	479.5	137.4	180.6	37.5	32.4	42.0	814.6	1616.5	250.5	2723.6
1978	4.8	9.4	44.5	93.9	193.6	419.6	406.5	227.6	230.0	85.9	74.4	.0	14.2	332.0	1283.7	160.3	1790.2
1979	5.8	11.4	21.1	95.8	183.4	228.3	493.0	223.8	306.0	170.9	27.0	50.6	17.2	300.3	1251.1	248.5	1817.1
1980	15.8	39.4	106.3	181.2	286.5	337.2	440.3	437.8	244.3	130.9	.8	.0	55.2	574.0	1459.6	131.7	2220.5
1981	33.8	37.9	73.2	143.1	235.2	247.0	466.4	370.7	229.8	44.5	3.9	43.9	71.7	451.5	1313.9	92.3	1929.4
1982	.6	33.3	37.6	259.3	180.5	366.5	363.3	351.7	281.3	60.2	45.6	24.6	33.9	477.4	1362.8	130.4	2004.5
1983	24.0	46.3	58.4	146.7	278.5	320.8	475.8	338.4	369.8	199.0	3.1	27.5	70.3	483.6	1504.8	229.6	2288.3
1984	17.8	9.2	29.5	232.9	379.1	390.5	415.1	340.1	355.8	129.4	8.9	31.4	27.0	641.5	1501.5	169.7	2339.7
1985	7.2	24.0	87.0	242.0	177.6	399.5	464.8	279.1	298.0	41.6	8.7	16.6	31.2	506.6	1441.4	66.9	2046.1
1986	11.2	14.4	23.9	243.6	117.4	261.3	416.4	301.5	265.5	189.3	29.5	9.2	25.6	384.9	1244.7	228.0	1883.2
1987	6.2	33.0	127.2	196.8	185.6	373.1	575.0	347.5	442.3	115.2	11.0	8.8	39.2	509.6	1737.9	135.0	2421.7
1988	14.5	37.9	107.5	155.8	435.7	236.4	524.2	530.6	255.0	148.6	60.7	9.6	52.4	699.0	1546.2	218.9	2516.5
1989	10.0	69.3	23.7	164.2	218.1	391.5	514.7	263.3	392.3	142.0	26.8	9.0	79.3	406.0	1561.8	177.8	2224.9
1990	15.7	52.7	82.4	314.8	241.8	401.4	472.9	232.8	392.3	176.7	.6	5.3	68.4	639.0	1499.4	182.6	2388.1
MEAN	20.4	33.4	76.4	191.4	302.0	397.1	426.9	361.5	268.1	118.8	20.4	10.7	53.8	569.8	1433.5	149.9	2227.1
PER ANN	.9	1.5	3.4	8.6	13.6	17.8	19.2	16.2	12.0	5.3	.9	.5	2.4	25.6	65.3	6.7	100.0
STD	14.1	18.8	45.1	62.9	97.5	88.2	92.6	80.0	79.7	60.7	19.9	11.5	22.3	130.0	164.3	68.5	224.5
COV	69.0	56.3	59.0	32.9	32.3	22.2	21.7	22.1	29.7	51.1	97.5	107.0	41.3	22.8	11.3	45.7	10.1
1991	12.6	33.4	62.9	183.7	249.0	390.7	306.7	341.4	344.6	150.1	4.9	18.5	46.0	495.6	1383.4	173.5	2098.5
1992	14.7	61.0	80.4	128.3	210.0	306.1	369.0	318.1	230.7	82.5	5.4	8.1	75.7	418.7	1223.9	96.0	1814.3
1993	56.8	117.4	103.1	122.8	341.8	622.0	654.6	490.1	286.8	112.1	3.8	4.2	174.2	567.7	2053.5	120.1	2915.5
1994	22.0	97.1	164.8	390.5	303.7	390.8	321.1	315.1	233.2	143.2	11.6	.9	119.1	859.0	1260.2	155.7	2394.0

4.SOUTH ASSAM AREA 123252 SQ.KM NO OF STATION 8

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.0	29.1	48.4	171.3	247.6	324.3	378.9	307.1	260.1	141.1	4.3	.0	29.1	467.3	1270.4	145.4	1912.2
1872	3.4	10.7	48.9	101.3	271.0	285.3	543.5	282.2	481.6	177.9	.7	4.1	14.1	421.2	1592.6	182.7	2210.6
1873	9.8	20.3	83.6	149.1	128.6	390.3	282.7	347.7	186.1	53.9	9.5	9.8	30.1	361.3	1206.8	73.2	1671.4
1874	44.5	90.3	74.1	120.8	251.7	320.2	539.8	241.9	405.2	249.7	29.0	.0	134.8	446.6	1507.1	278.7	2367.2
1875	45.3	9.1	156.1	147.3	336.1	548.6	433.1	607.5	212.6	66.5	6.2	7.5	54.4	639.5	1801.8	80.2	2575.9
1876	.0	23.0	139.2	104.0	330.4	498.6	337.6	434.2	246.8	141.3	79.2	11.8	23.0	573.6	1517.2	232.3	2346.1
1877	36.8	41.2	119.0	104.9	309.8	248.0	467.3	381.8	413.8	96.1	12.0	2.5	78.0	533.7	1510.9	110.6	2233.2
1878	15.7	37.0	69.1	164.1	260.2	393.2	402.5	536.3	476.5	196.6	67.3	11.1	52.7	493.4	1808.5	275.0	2629.6
1879	2.5	15.3	21.2	46.4	259.9	558.3	376.0	378.2	421.8	175.0	1.7	20.7	17.8	327.5	1734.3	197.4	2277.0
1880	35.1	62.7	193.3	113.2	255.3	549.5	358.8	434.3	293.2	126.9	8.1	12.5	97.8	561.8	1635.8	147.5	2442.9
1881	1.7	10.5	128.2	220.7	333.2	354.3	347.7	377.9	388.7	112.7	30.2	5.4	12.2	682.1	1468.6	148.3	2311.2
1882	8.8	85.6	87.2	120.9	285.1	422.0	303.0	382.1	297.6	306.7	55.8	7.3	94.4	493.2	1404.7	369.8	2362.1
1883	16.7	9.1	76.4	121.9	461.8	388.7	296.8	499.5	247.5	48.2	14.1	104.5	25.8	660.1	1432.5	166.8	2285.2
1884	9.4	35.0	81.0	191.7	290.1	401.3	272.4	343.3	209.5	151.7	41.7	1.1	44.4	562.8	1226.5	194.5	2028.2
1885	4.9	23.6	74.7	140.2	158.2	418.1	365.8	264.3	440.3	102.6	53.2	5.6	28.5	373.1	1488.5	161.4	2051.5
1886	1.0	11.0	111.9	126.6	245.7	458.2	544.6	498.7	344.0	102.1	1.3	5.9	12.0	484.2	1845.5	109.3	2451.0
1887	57.6	1.1	163.2	130.3	218.7	533.5	262.9	322.9	264.7	59.7	41.7	.0	58.7	512.2	1384.0	101.4	2056.3
1888	25.7	41.9	118.7	259.4	280.5	435.2	356.0	409.5	237.3	114.5	24.0	.0	67.6	658.6	1438.0	138.5	2302.7
1889	17.0	23.4	44.6	150.1	226.1	443.7	380.3	236.2	388.6	96.1	68.3	2.9	40.4	420.8	1448.8	167.3	2077.3
1890	19.2	.1	143.8	135.6	211.4	422.5	446.7	304.9	256.2	163.0	7.0	5.8	19.3	490.8	1430.3	175.8	2116.2
1891	3.1	42.9	61.0	127.9	393.8	378.5	412.0	284.3	258.3	49.2	64.8	.5	46.0	582.7	1333.1	114.5	2076.3
1892	2.2	39.9	52.6	275.8	329.9	317.7	353.0	394.1	230.8	179.3	51.6	5.3	42.1	658.3	1295.6	236.2	2232.2
1893	27.0	57.2	104.5	151.8	467.5	594.8	490.5	380.9	300.9	200.4	9.9	4.5	84.2	723.8	1767.1	214.8	2789.9
1894	.3	47.9	195.5	152.2	304.5	435.4	320.8	379.3	364.1	272.3	110.9	17.3	48.2	652.2	1499.6	400.5	2600.5
1895	6.4	4.4	70.7	246.2	305.2	277.3	521.7	346.2	294.5	151.5	32.9	55.5	10.8	622.1	1439.7	239.9	2312.5
1896	19.4	91.4	61.7	158.5	220.1	263.9	297.1	243.6	289.9	13.2	7.5	.0	110.8	440.3	1094.5	20.7	1666.3
1897	2.8	11.6	118.0	54.8	270.4	397.3	320.0	435.9	461.6	174.2	44.8	1.2	14.4	443.2	1614.8	220.2	2292.6
1898	14.5	33.9	19.9	62.9	125.9	484.6	288.6	429.4	270.7	183.3	1.9	3.7	48.4	208.7	1473.3	188.9	1919.3
1899	20.8	38.9	98.5	152.3	278.8	472.7	463.5	400.3	347.6	212.2	11.4	10.3	59.7	529.6	1684.1	233.9	2507.3
1900	3.6	59.9	119.7	205.8	191.1	381.3	423.3	181.7	177.7	81.4	3.2	5.7	63.5	516.6	1164.0	90.3	1834.4
1901	9.3	10.5	24.1	191.4	122.1	440.5	315.7	348.4	318.0	211.5	85.7	.8	19.8	337.6	1422.6	298.0	2078.0
1902	1.8	1.4	53.3	277.3	225.0	550.2	308.5	371.1	286.0	131.8	8.7	2.8	3.2	555.6	1515.8	143.3	2217.9
1903	9.6	25.2	118.0	55.0	132.6	502.3	295.4	432.8	296.9	155.1	73.3	.0	34.8	305.6	1527.4	228.4	2096.2
1904	1.7	56.4	44.2	384.5	238.7	351.0	404.6	343.8	275.8	98.4	80.8	5.4	58.1	667.4	1375.2	184.6	2285.3
1905	3.9	27.5	199.0	131.2	213.2	420.7	388.4	565.2	273.0	261.2	1.2	16.5	31.4	543.4	1647.3	278.9	2501.0
1906	5.7	74.0	90.7	157.1	265.8	333.3	424.6	510.6	409.2	149.2	55.8	2.5	79.7	513.6	1677.7	207.5	2478.5
1907	38.5	27.1	103.9	204.3	173.0	401.1	377.1	208.3	290.0	52.8	9.1	31.2	65.6	481.2	1276.5	93.1	1916.4
1908	14.3	18.1	9.1	91.3	198.0	321.9	492.8	255.2	328.0	127.6	40.6	.0	32.4	298.4	1397.9	168.2	1896.9
1909	5.0	4.0	3.3	160.4	206.8	461.9	247.3	439.6	225.8	187.4	64.6	40.2	9.0	370.5	1374.6	292.2	2046.3
1910	13.6	26.4	69.7	159.9	216.7	419.3	573.1	343.5	328.0	178.2	13.6	.0	40.0	446.3	1663.9	191.8	2342.0
1911	63.6	6.9	72.4	175.5	314.5	435.2	403.4	308.9	267.9	201.9	4.3	.0	70.5	562.4	1415.4	206.2	2254.5
1912	7.3	36.1	117.5	258.5	224.3	322.1	400.8	324.2	231.3	210.9	80.3	5.7	43.4	600.3	1278.4	296.9	2219.0
1913	3.5	50.7	99.8	180.3	320.9	472.1	410.3	354.0	183.3	173.9	28.2	20.2	54.2	601.0	1419.7	222.3	2297.2
1914	.4	66.0	93.7	249.9	285.1	316.9	332.0	411.8	210.4	92.3	8.5	47.4	66.4	628.7	1271.1	148.2	2114.4
1915	14.1	39.7	77.0	190.7	508.5	409.4	494.7	470.9	220.0	172.6	31.7	.0	53.8	776.2	1595.0	204.3	2629.3
1916	4.4	13.7	28.5	201.0	189.7	312.8	336.6	393.2	285.4	328.5	47.8	3.2	18.1	419.2	1328.0	379.5	2144.8
1917	.1	79.4	35.3	203.9	165.0	328.5	339.1	302.3	290.6	156.8	71.8	.0	79.5	404.2	1260.5	228.6	1972.8
1918	3.5	3.0	111.8	140.2	293.6	524.1	582.6	493.7	291.2	67.6	11.6	2.9	6.5	545.6	1891.6	82.1	2525.8
1919	13.5	9.0	21.2	120.9	177.5	342.2	324.2	256.2	336.3	105.8	73.7	1.7	22.5	319.6	1258.9	181.2	1782.2
1920	1.3	41.8	169.2	131.1	194.7	325.1	257.4	382.9	348.9	121.9	8.0	1.2	43.1	495.0	1314.3	131.1	1983.5
1921	31.9	11.5	163.4	160.8	254.5	435.4	434.2	344.0	342.2	204.2	11.5	3.8	43.4	578.7	1555.8	219.5	2397.4
1922	7.2	2.4	62.8	119.0	152.5	462.7	333.9	395.0	261.2	147.7	28.2	4.3	9.6	334.3	1452.8	180.2	1976.9
1923	.0	49.0	45.0	197.8	235.0	507.8	245.7	298.5	265.6	145.4	58.7	3.6	49.0	477.8	1317.6	207.7	2052.1
1924	4.4	32.6	10.2	165.4	249.2	421.8	431.0	344.3	264.3	129.0	186.4	.8	37.0	424.8	1461.4	316.2	2239.4
1925	17.3	24.4	35.6	170.3	408.6	293.7	328.6	323.2	249.7	144.6	20.4	.0	41.7	614.5	1195.2	165.0	2016.4
1926	29.6	41.1	140.8	149.2	238.3	435.6	387.6	332.3	259.3	144.7	13.6	51.8	70.7	528.3	1414.8	210.1	2223.9
1927	39.5	93.1	42.2	269.4	225.5	344.0	410.5	342.9	472.5	180.8	25.9	.0	132.6	537.1	1569.9	206.7	2446.3
1928	6.3	24.6	37.6	88.8	335.9	361.0	292.9	358.8	261.8	265.6	11.9	.0	30.9	462.3	1274.5	277.5	2045.2
1929	49.6	3.7	79.8	268.1	364.0	654.5	280.2	351.4	297.9	134.1	5.8	14.4	53.3	711.9	1584.0	154.3	2503.5
1930	12.5	51.0	97.9	142.8	208.1	562.4	341.4	332.2	212.5	79.4	182.2	.3	63.5	448.8	1448.5	261.9	2222.7
1931	.9	21.7	41.5	108.3	267.0	493.0	434.9	209.7	299.5	182.9	44.9	19.4	22.6	416.8	1437.1	247.2	2123.7
1932	7.3	45.3	69.6	168.1	347.3	460.5	417.0	332.0	241.6	55.9	109.4	5.7	52.6	585.0	1451.1	171.0	2259.7
1933	2.0	8.0	24.7	162.2	248.8	332.5	301.8	481.4	189.9	94.1	4.9	7.3	10.0	435.7	1305.6	106.3	1857.6
1934	5.6	99.2	33.5	199.0	324.5	702.7	488.7	274.2	227.1	220.9	104.0	7.3	104.8	557.0	1692.7	332.2	2686.7
1935	.7	33.2	25.8	114.0	159.0	494.9	273.1	527.0	245.1	82.1	11.9	.0	33.9	298.8	1540.1	94.0	1966.8

4.SOUTH ASSAM AREA 123252 SQ.KM NO OF STATION 8

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	5.0	45.6	66.8	188.9	547.0	341.3	452.8	345.0	273.4	215.2	10.8	3.6	50.6	802.7	1412.5	229.6	2495.4
1937	.0	29.9	11.2	56.5	339.6	444.8	300.0	466.0	201.4	165.7	11.4	44.2	29.9	407.3	1412.2	221.3	2070.7
1938	19.9	11.0	105.8	134.1	362.9	449.3	344.2	411.4	334.5	153.5	86.3	.2	30.9	602.8	1539.4	240.0	2413.1
1939	3.7	33.0	26.4	150.4	262.1	414.2	457.1	216.6	336.3	185.3	25.1	3.9	36.7	438.9	1424.2	214.3	2114.1
1940	.8	53.6	164.6	24.1	341.4	366.0	351.6	313.1	368.3	135.4	19.8	12.6	54.4	530.1	1399.0	167.8	2151.3
1941	40.2	49.5	30.1	197.0	467.8	574.2	386.0	268.7	212.7	188.5	41.4	5.6	89.7	694.9	1441.6	235.5	2461.7
1942	3.6	16.7	65.7	224.4	275.0	550.8	281.7	400.7	312.7	50.0	114.4	.0	20.3	565.1	1545.9	164.4	2295.7
1943	54.8	32.3	128.4	146.7	195.1	400.9	354.8	373.4	317.2	73.1	3.6	.0	87.1	470.2	1446.3	76.7	2080.3
1944	60.9	16.3	53.6	105.7	279.5	402.5	338.2	333.5	347.6	83.1	.6	.2	77.2	438.8	1421.8	83.9	2021.7
1945	57.8	40.6	55.9	115.5	228.0	464.3	426.5	406.2	259.8	205.3	12.6	18.5	98.4	399.4	1556.8	236.4	2291.0
1946	1.0	18.0	164.9	252.5	274.9	411.7	540.9	224.8	218.0	467.3	9.1	25.6	19.0	692.3	1395.4	502.0	2608.7
1947	1.2	2.9	54.1	196.6	379.5	632.6	506.0	350.8	361.3	261.3	1.3	23.0	4.1	630.2	1850.7	285.6	2770.6
1948	.7	57.1	41.5	189.5	570.0	424.0	388.4	375.6	380.9	190.6	66.5	2.0	57.8	801.0	1568.9	259.1	2686.8
1949	11.8	15.9	17.8	301.8	324.3	466.0	358.2	348.3	332.1	139.8	8.5	2.4	27.7	643.9	1504.6	150.7	2326.9
1950	7.4	51.0	67.0	61.4	249.0	476.3	305.4	420.4	184.7	182.6	108.9	3.4	58.4	377.4	1386.8	294.9	2117.5
1951	1.7	.0	37.5	180.5	193.3	609.3	556.1	391.9	143.7	293.2	42.6	4.3	1.7	411.3	1701.0	340.1	2454.1
1952	4.5	3.5	68.5	182.2	398.5	402.0	528.2	312.8	274.0	372.2	56.2	.3	8.0	649.2	1517.0	428.7	2602.9
1953	12.3	18.7	104.6	106.8	363.9	457.1	382.6	344.1	464.6	94.1	11.4	4.2	31.0	575.3	1648.4	109.7	2364.4
1954	9.8	64.6	25.7	93.7	251.3	491.9	392.3	442.6	243.8	253.0	1.2	8.8	74.4	370.7	1570.6	263.0	2278.7
1955	8.5	2.8	118.1	198.6	254.9	446.7	431.0	323.8	239.9	133.3	191.8	3.7	11.3	571.6	1441.4	328.8	2353.1
1956	18.9	1.7	64.5	116.4	445.2	707.1	448.6	476.4	208.4	154.8	58.7	11.3	20.6	626.1	1840.5	224.8	2712.0
1957	59.6	28.9	17.9	105.3	238.4	418.8	251.1	295.7	293.0	127.7	3.1	1.1	88.5	361.6	1258.6	131.9	1840.6
1958	9.5	45.8	9.1	146.7	435.9	331.8	310.9	332.0	264.1	144.3	3.8	6.6	55.3	591.7	1238.8	154.7	2040.5
1959	31.0	54.8	139.1	74.3	271.1	380.5	294.1	313.7	232.1	396.8	.8	.3	85.8	484.5	1220.4	397.9	2188.6
1960	.0	4.3	43.7	32.8	238.4	447.1	485.4	314.6	458.1	122.6	53.3	.1	4.3	314.9	1705.2	176.0	2200.4
1961	8.5	22.4	262.8	79.4	303.5	416.6	279.2	263.9	229.7	116.3	35.1	2.3	30.9	645.7	1189.4	153.7	2019.7
1962	14.8	26.0	8.1	184.8	207.9	495.5	293.0	389.9	141.8	140.1	1.4	.0	40.8	400.8	1320.2	141.5	1903.3
1963	.0	4.1	66.2	153.0	257.9	520.5	410.4	354.4	244.5	252.5	12.2	2.3	4.1	477.1	1529.8	267.0	2278.0
1964	4.5	25.1	59.6	261.6	283.2	439.3	436.8	248.6	310.2	280.9	29.5	3.8	29.6	604.4	1434.9	314.2	2383.1
1965	1.7	69.4	53.4	73.8	203.4	514.1	354.8	355.2	276.3	121.1	27.2	31.9	71.1	330.6	1500.4	180.2	2082.3
1966	16.0	.5	20.3	86.5	254.6	631.2	405.8	399.4	305.5	232.4	40.5	47.0	16.5	361.4	1741.9	319.9	2439.7
1967	29.9	31.5	111.0	155.2	227.5	291.7	402.8	238.2	279.2	115.8	12.1	.1	61.4	493.7	1211.9	128.0	1895.0
1968	17.6	27.9	88.0	120.1	244.7	497.2	620.0	360.8	188.0	111.6	31.0	1.9	45.5	452.8	1666.0	144.5	2308.8
1969	9.0	.3	81.7	175.0	159.7	503.1	389.6	368.6	137.3	121.6	29.8	.9	9.3	416.4	1398.6	152.3	1976.6
1970	61.3	43.8	72.2	135.4	200.9	513.5	478.3	274.9	228.2	306.6	82.1	2.9	105.1	408.5	1494.9	391.6	2400.1
1971	11.3	15.4	24.6	215.3	246.0	371.3	264.3	353.3	207.5	169.9	114.1	3.2	26.7	485.9	1196.4	287.2	1996.2
1972	3.7	33.4	60.5	128.6	212.2	460.1	262.6	259.0	163.2	90.2	9.0	.1	37.1	401.3	1144.9	99.3	1682.6
1973	9.9	66.8	31.8	185.1	345.5	558.8	318.5	308.2	239.0	162.5	153.8	110.7	76.7	562.4	1424.5	427.0	2490.6
1974	6.7	1.8	105.0	144.4	222.8	474.2	705.2	321.0	243.9	200.7	53.9	.0	8.5	472.2	1744.3	254.6	2479.6
1975	4.1	21.9	21.3	113.8	260.3	258.0	488.4	226.9	252.9	207.3	88.7	1.5	26.0	395.4	1226.2	297.5	1945.1
1976	12.4	37.3	133.6	176.6	182.0	564.5	374.9	323.9	159.0	49.9	26.1	.5	49.7	492.2	1422.3	76.5	2040.7
1977	7.2	19.9	41.6	370.8	276.6	406.4	335.0	345.4	215.8	133.2	47.6	22.5	27.1	689.0	1302.6	203.3	2222.0
1978	.0	5.8	33.5	111.8	306.1	398.5	290.1	301.6	294.5	72.7	31.3	.0	5.8	451.4	1284.7	104.0	1845.9
1979	1.4	10.9	82.9	82.7	121.7	286.4	546.9	277.2	472.1	110.4	30.6	33.6	12.3	287.3	1582.6	174.6	2056.8
1980	1.3	33.6	91.8	139.9	340.8	309.9	312.5	193.3	215.9	259.2	.0	1.9	34.9	572.5	1031.6	261.1	1900.1
1981	26.9	20.6	96.7	201.1	300.8	221.9	411.5	290.5	189.4	43.2	7.7	19.5	47.5	598.6	1113.3	70.4	1829.8
1982	2.0	39.6	41.6	251.3	123.2	391.3	279.7	335.4	251.5	37.5	45.2	3.1	41.6	416.1	1257.9	85.8	1801.4
1983	18.3	36.5	152.3	242.7	215.7	274.9	420.6	329.5	283.1	204.0	23.2	36.7	54.8	610.7	1308.1	263.9	2237.5
1984	6.7	2.2	4.9	77.7	310.7	336.9	404.3	261.8	308.5	126.6	3.5	16.1	8.9	393.3	1311.5	146.2	1859.9
1985	4.5	38.1	103.3	140.5	312.1	417.1	350.4	228.6	239.9	37.8	17.8	6.8	42.6	555.9	1236.0	62.4	1896.9
1986	6.8	12.8	29.2	267.8	176.5	303.2	280.6	312.9	267.4	320.7	97.2	2.0	19.6	473.5	1164.1	419.9	2077.1
1987	9.7	22.5	92.9	177.2	117.6	354.2	414.9	328.3	409.8	74.3	45.6	5.8	32.2	387.7	1507.2	125.7	2052.8
1988	2.7	25.8	71.1	102.0	419.1	408.9	540.2	557.5	279.9	287.6	248.1	15.8	28.5	592.2	1786.5	551.5	2958.7
1989	8.6	32.5	34.8	183.1	225.6	339.1	662.3	294.8	300.8	371.5	6.8	4.5	41.1	443.5	1597.0	382.8	2464.4
1990	2.1	36.9	101.8	251.5	253.4	344.5	334.4	252.9	248.8	182.0	49.9	9.5	39.0	606.7	1180.6	241.4	2067.7
MEAN	13.5	30.2	76.6	159.4	270.3	426.4	388.6	349.9	284.2	161.0	40.5	10.0	43.7	506.3	1449.1	211.5	2210.6
PER ANN	.6	1.4	3.5	7.2	12.2	19.3	17.6	15.8	12.9	7.3	1.8	.5	2.0	22.9	65.6	9.6	100.0
STD	16.0	22.9	49.1	64.9	88.2	96.9	93.9	82.7	77.4	82.0	44.4	17.5	28.6	119.2	183.5	97.5	260.3
COV	118.4	75.7	64.1	40.7	32.6	22.7	24.2	23.6	27.2	50.9	109.8	175.8	65.4	23.5	12.7	46.1	11.8
1991	18.0	42.1	76.6	147.3	500.2	402.2	321.7	207.8	412.2	229.6	56.5	29.1	60.1	724.1	1343.9	315.2	2443.3
1992	.0	51.0	38.9	139.9	235.8	187.9	289.1	311.3	349.1	212.1	22.7	31.2	51.0	414.6	1137.4	266.0	1869.0
1993	2.8	176.5	81.8	185.7	604.8	438.6	523.0	365.1	319.0	86.0	14.5	.0	179.3	872.3	1645.7	100.5	2797.8
1994	9.0	52.6	211.2	149.9	172.0	295.7	297.6	334.0	196.4	85.7	19.9	.0	61.6	533.1	1123.7	105.6	1824.0

5.SUB-HIMALAYAN WEST BENGAL AREA 21625 SQ.KM NO OF STATION 5

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.0	6.9	69.9	72.4	139.2	362.1	623.8	414.5	438.4	68.4	4.9	.0	6.9	281.5	1838.8	73.3	2200.5
1872	16.9	9.7	12.6	112.0	173.2	553.7	487.6	489.8	394.2	202.8	.2	.0	26.6	297.8	1925.3	203.0	2452.7
1873	2.9	1.7	20.4	125.2	60.5	563.1	378.9	333.4	281.9	5.0	.0	2.5	4.6	206.1	1557.3	7.5	1775.5
1874	20.7	21.5	23.3	106.1	198.8	524.0	500.4	354.8	882.6	288.9	.0	.3	42.2	328.2	2261.8	289.2	2921.4
1875	22.2	4.5	24.7	81.3	210.4	545.0	460.3	561.7	203.7	5.2	.0	1.9	26.7	316.4	1770.7	7.1	2120.9
1876	3.8	.0	2.5	62.8	193.0	689.1	481.5	370.2	319.6	159.6	.1	2.9	3.8	258.3	1860.4	162.6	2285.1
1877	37.7	13.0	23.5	97.3	282.9	295.7	545.7	183.8	641.9	38.3	.0	6.9	50.7	403.7	1667.1	45.2	2166.7
1878	12.9	11.2	18.8	95.2	216.3	681.6	741.3	489.2	637.3	32.2	14.4	.0	24.1	330.3	2549.4	46.6	2950.4
1879	1.7	14.3	.0	18.4	358.1	672.6	728.5	594.1	504.9	61.1	.0	1.6	16.0	376.5	2500.1	62.7	2955.3
1880	13.8	48.6	79.0	100.0	213.3	749.2	497.0	510.7	164.4	181.4	1.4	16.2	62.4	392.3	1921.3	199.0	2575.0
1881	.0	1.8	78.0	30.6	254.1	447.1	297.1	369.7	711.4	135.7	10.1	.2	1.8	362.7	1825.3	146.0	2335.8
1882	2.6	19.3	45.0	47.1	163.8	585.5	333.9	732.2	417.0	316.1	7.4	.0	21.9	255.9	2068.6	323.5	2669.9
1883	22.4	3.2	2.2	74.5	195.3	604.6	423.0	616.5	430.1	11.2	.0	12.7	25.6	272.0	2074.2	23.9	2395.7
1884	2.7	14.1	27.4	84.8	301.7	526.7	399.0	528.2	131.0	196.6	.0	.6	16.8	413.9	1584.9	197.2	2212.8
1885	11.9	.2	48.5	68.7	167.2	529.8	796.5	405.6	526.6	71.4	.1	15.2	12.1	284.4	2258.5	86.7	2641.7
1886	.7	9.9	30.9	28.4	196.5	411.8	601.4	551.2	695.0	79.3	4.8	.5	10.6	255.8	2259.4	84.6	2610.4
1887	43.1	.7	59.4	71.6	461.3	743.9	328.4	482.0	367.0	82.9	.1	.0	43.8	592.3	1921.3	83.0	2640.4
1888	10.4	7.1	47.3	121.0	137.7	402.4	628.7	468.1	273.0	28.3	15.1	.4	17.5	306.0	1772.2	43.8	2139.5
1889	74.6	37.9	2.0	29.8	116.2	589.6	767.6	432.9	462.3	46.6	15.8	.0	112.5	148.0	2252.4	62.4	2575.3
1890	4.9	.2	1.7	108.3	159.1	763.7	776.5	702.0	496.3	311.5	.2	.0	5.1	269.1	2738.5	311.7	3324.4
1891	12.4	35.1	72.0	42.7	303.0	257.6	521.7	241.9	183.8	34.8	1.6	.0	47.5	417.7	1205.0	36.4	1706.6
1892	2.1	18.2	22.4	119.0	469.3	411.8	955.0	682.7	270.4	31.6	8.4	4.8	20.3	610.7	2319.9	44.8	2995.7
1893	11.5	39.9	38.6	148.7	150.9	461.5	708.9	452.8	556.9	125.9	5.2	.0	51.4	338.2	2180.1	131.1	2700.8
1894	.0	15.4	5.1	129.6	160.4	472.9	453.3	591.9	601.1	247.6	7.1	4.2	15.4	295.1	2119.2	258.9	2688.6
1895	1.9	2.6	9.0	106.2	283.8	252.2	841.4	550.7	270.6	23.1	8.0	.0	4.5	399.0	1914.9	31.1	2349.5
1896	7.5	.5	1.2	63.0	269.1	235.2	545.8	181.0	442.6	21.1	1.9	2.1	8.0	333.3	1404.6	25.1	1771.0
1897	6.3	4.7	55.8	33.8	219.6	332.0	504.9	445.4	477.2	186.6	6.1	.3	11.0	309.2	1759.5	193.0	2272.7
1898	9.7	43.1	3.1	68.2	188.4	523.7	489.7	313.1	726.7	52.8	5.6	2.1	52.8	259.7	2053.2	60.5	2426.2
1899	33.0	8.4	29.7	63.9	208.0	622.6	732.9	572.9	509.7	41.8	.6	1.5	41.4	301.6	2438.1	43.9	2825.0
1900	12.6	18.2	22.7	46.3	257.8	490.3	621.2	260.5	390.6	15.7	.0	1.2	30.8	326.8	1762.6	16.9	2137.1
1901	28.4	15.5	17.5	33.1	183.5	429.1	544.6	585.1	223.2	44.8	17.8	4.7	43.9	234.1	1782.0	67.3	2127.3
1902	.2	.1	77.2	84.6	238.0	499.3	631.3	491.8	896.6	102.9	1.9	.0	.3	399.8	2519.0	104.8	3023.9
1903	5.0	11.7	16.5	8.1	159.8	536.6	312.3	597.3	400.2	135.6	.0	.0	16.7	184.4	1846.4	135.6	2183.1
1904	3.8	35.8	.5	110.3	317.4	275.2	476.6	490.4	234.5	178.1	7.9	.2	39.6	428.2	1476.7	186.2	2130.7
1905	12.1	31.9	53.8	88.1	254.1	518.7	547.1	1012.9	367.1	128.2	.0	7.3	44.0	396.0	2445.8	135.5	3021.3
1906	10.1	55.9	23.6	4.1	196.3	446.0	685.0	822.4	208.1	146.0	8.2	.4	66.0	224.0	2161.5	154.6	2606.1
1907	.8	22.2	67.2	117.8	158.1	387.0	838.6	352.5	551.8	18.8	1.0	3.2	23.0	343.1	2129.9	23.0	2519.0
1908	12.8	31.6	14.6	15.4	294.9	378.7	378.1	244.4	429.4	31.3	.0	.0	44.4	324.9	1430.6	31.3	1831.2
1909	2.7	15.2	.0	135.3	163.0	893.9	414.3	515.6	282.2	175.9	.0	.9	17.9	298.3	2106.0	176.8	2599.0
1910	.7	15.2	68.1	35.0	206.6	726.3	802.3	509.3	392.0	162.2	10.0	.0	15.9	309.7	2429.9	172.2	2927.7
1911	19.4	1.9	40.5	139.8	246.9	587.6	728.5	392.2	491.9	267.4	5.5	.0	21.3	427.2	2200.2	272.9	2921.6
1912	1.8	10.7	86.7	123.0	183.2	383.2	674.0	489.4	307.3	129.8	131.1	.3	12.5	392.9	1853.9	261.2	2520.5
1913	.1	31.5	41.7	18.8	227.3	770.6	544.7	388.0	447.2	153.0	8.5	48.7	31.6	287.8	2150.5	210.2	2680.1
1914	1.1	57.6	10.7	166.7	175.7	314.9	394.2	726.0	280.8	20.6	15.7	.7	58.7	353.1	1715.9	37.0	2164.7
1915	2.0	50.2	62.4	39.8	278.4	315.4	471.6	570.2	261.7	106.7	16.9	1.4	52.2	380.6	1618.9	125.0	2176.7
1916	1.3	16.7	1.2	177.5	243.1	610.7	863.4	508.2	584.5	220.6	3.8	.2	18.0	421.8	2566.8	224.6	3231.2
1917	.1	14.6	14.8	16.1	194.4	610.1	612.1	361.5	521.5	383.2	.8	.0	14.7	225.3	2105.2	384.0	2729.2
1918	.9	1.4	20.8	132.1	278.9	710.3	690.5	752.2	291.8	37.6	1.7	.3	2.3	431.8	2444.8	39.6	2918.5
1919	21.6	9.9	5.6	64.5	143.2	554.5	628.3	319.6	433.9	114.4	4.3	.0	31.5	213.3	1936.3	118.7	2299.8
1920	.0	19.1	40.3	36.8	148.8	538.1	456.0	600.1	816.4	127.8	.0	.0	19.1	225.9	2410.6	127.8	2783.4
1921	32.9	2.6	65.3	181.1	404.6	479.5	950.1	478.6	366.1	88.5	3.9	1.6	35.5	651.0	2274.3	94.0	3054.8
1922	24.0	1.9	6.6	48.8	150.4	710.8	616.6	518.6	529.6	46.4	.1	7.0	25.9	205.8	2375.6	53.5	2660.8
1923	.0	30.0	5.0	112.5	297.9	474.2	716.3	222.2	564.3	102.4	.0	.0	30.0	415.4	1977.0	102.4	2524.8
1924	.3	3.8	5.8	116.2	246.4	687.7	776.9	514.9	396.6	90.1	94.6	2.2	4.1	368.4	2376.1	186.9	2935.5
1925	.7	2.7	12.4	196.0	198.4	520.4	458.0	608.5	586.6	97.4	23.7	.0	3.4	406.8	2173.5	121.1	2704.8
1926	10.0	1.1	74.7	29.4	206.6	450.7	902.1	384.3	309.3	53.3	.4	9.4	11.1	310.7	2046.4	63.1	2431.3
1927	16.4	28.7	59.5	77.3	303.2	588.1	491.9	391.1	581.7	75.3	17.2	.2	45.1	440.0	2052.8	92.7	2630.6
1928	25.1	13.8	2.9	80.3	207.2	492.5	605.0	522.3	378.8	326.2	8.0	.0	38.9	290.4	1998.6	334.2	2662.1
1929	47.0	4.1	42.5	85.6	224.3	472.0	567.3	348.0	371.5	553.3	2.3	10.3	51.1	352.4	1758.8	565.9	2728.2
1930	11.0	15.4	55.1	47.9	153.5	436.5	345.0	473.9	368.9	139.7	42.5	2.5	26.4	256.5	1624.3	184.7	2091.9
1931	.0	7.9	29.8	70.0	250.5	470.8	712.3	395.2	476.8	99.5	11.0	1.6	7.9	350.3	2055.1	112.1	2525.4
1932	1.1	6.7	9.7	69.5	203.4	645.9	333.8	579.2	399.9	114.2	123.7	39.7	7.8	282.6	1958.8	277.6	2526.8
1933	19.6	5.6	.7	111.7	175.9	575.9	598.5	438.2	277.4	146.2	3.6	.6	25.2	288.3	1890.0	150.4	2353.9
1934	20.1	66.9	.4	62.6	213.1	460.6	585.6	522.9	430.3	164.3	9.0	9.5	87.0	276.1	1999.4	182.8	2545.3
1935	10.7	26.4	8.9	19.5	243.1	628.0	389.6	789.5	479.9	18.1	2.4	2.2	37.1	271.5	2287.0	22.7	2618.3

5.SUB-HIMALAYAN WEST BENGAL AREA 21625 SQ.KM NO OF STATION 5

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	1.8	12.2	40.8	80.8	267.0	514.0	597.6	460.8	533.3	119.6	.5	8.2	14.0	388.6	2105.7	128.3	2636.6
1937	.0	58.4	.3	39.1	253.5	285.3	453.6	607.4	396.6	307.6	19.8	1.6	58.4	292.9	1742.9	329.0	2423.2
1938	1.5	9.6	7.0	50.9	461.0	861.6	677.1	543.0	462.1	82.7	2.2	.0	11.1	518.9	2543.8	84.9	3158.7
1939	.0	18.3	6.9	7.4	228.2	544.4	636.8	460.5	455.9	117.7	2.9	.0	18.3	242.5	2097.6	120.6	2479.0
1940	.2	44.9	113.5	32.8	229.8	445.3	632.6	398.8	372.5	4.3	8.5	3.4	45.1	376.1	1849.2	16.2	2286.6
1941	4.2	5.9	10.5	80.8	367.9	406.9	392.7	542.7	432.7	166.2	17.3	.7	10.1	459.2	1775.0	184.2	2428.5
1942	5.5	20.9	61.8	165.5	225.0	518.5	348.6	333.5	492.0	48.7	.3	.0	26.4	452.3	1692.6	49.0	2220.3
1943	21.9	34.2	13.6	173.4	158.8	727.2	380.9	508.7	540.9	33.8	.8	.2	56.1	345.8	2157.7	34.8	2594.4
1944	23.5	11.7	47.1	122.6	217.3	507.2	433.7	362.6	576.7	68.7	3.1	.0	35.2	387.0	1880.2	71.8	2374.2
1945	19.7	28.3	7.5	133.0	260.9	385.4	509.9	634.9	399.7	238.3	.0	.4	48.0	401.4	1929.9	238.7	2617.0
1946	.0	14.5	24.9	149.1	203.9	433.8	628.6	372.5	418.4	271.0	11.3	.0	14.5	377.9	1853.3	282.3	2528.0
1947	1.2	.5	50.1	42.3	130.3	261.4	634.0	370.4	454.3	142.3	5.6	1.0	1.7	222.7	1720.1	148.9	2093.4
1948	.8	9.2	21.4	164.5	244.2	474.1	805.4	420.6	301.3	176.4	64.1	.0	10.0	430.1	2001.4	240.5	2682.0
1949	4.1	23.1	6.0	235.3	261.1	497.1	560.8	518.9	335.5	196.7	.0	1.3	27.2	502.4	1912.3	198.0	2639.9
1950	.6	20.3	24.5	34.9	216.3	923.4	557.3	694.7	431.6	99.1	.5	.6	20.9	275.7	2607.0	100.2	3003.8
1951	1.4	1.1	22.8	48.6	189.3	528.9	641.6	379.6	264.0	85.3	25.9	.0	2.5	260.7	1814.1	111.2	2188.5
1952	.0	16.3	51.1	159.7	432.1	480.6	585.7	529.3	564.4	120.7	19.7	.1	16.3	642.9	2160.0	140.5	2959.7
1953	21.4	3.0	47.2	53.5	206.7	402.9	675.9	240.7	446.4	83.6	.5	.6	24.4	307.4	1765.9	84.7	2182.4
1954	9.7	12.6	3.1	31.6	270.3	728.0	787.2	303.4	223.1	53.4	.0	.0	22.3	305.0	2041.7	53.4	2422.4
1955	3.8	2.5	31.3	46.3	218.3	521.8	976.1	580.4	260.1	42.1	3.7	2.1	6.3	295.9	2338.4	47.9	2688.5
1956	9.3	1.3	36.1	93.9	416.4	705.4	442.7	432.9	310.9	255.6	26.4	4.2	10.6	546.4	1891.9	286.2	2735.1
1957	99.4	10.6	17.5	6.9	73.7	396.4	560.7	543.1	124.1	46.1	.2	.9	110.0	98.1	1624.3	47.2	1879.6
1958	13.3	12.0	18.9	103.1	190.5	556.7	426.0	905.9	349.5	127.2	.6	6.2	25.3	312.5	2238.1	134.0	2709.9
1959	96.3	1.9	62.9	86.0	135.2	406.0	488.5	262.1	287.3	345.3	.0	.0	98.2	284.1	1443.9	345.3	2177.5
1960	.0	4.5	46.0	4.3	254.4	257.1	596.7	317.3	685.7	87.6	.0	.0	4.5	304.7	1856.8	87.6	2253.6
1961	6.9	39.3	33.3	30.3	217.3	398.9	467.0	543.6	264.5	134.2	1.6	1.7	46.2	280.9	1674.0	137.5	2138.6
1962	22.4	14.9	9.8	65.8	221.7	519.2	461.6	547.2	274.5	73.4	.0	.7	37.3	297.3	1802.5	74.1	2211.2
1963	2.0	.1	37.8	85.5	327.6	406.9	604.4	728.9	299.4	117.3	14.6	2.3	2.1	450.9	2039.6	134.2	2626.8
1964	.0	2.8	11.4	98.9	160.6	524.2	950.5	456.9	550.8	108.1	1.7	.0	2.8	270.9	2482.4	109.8	2865.9
1965	.0	15.9	44.4	47.3	192.6	456.7	698.2	743.3	256.1	22.9	39.5	.0	15.9	284.3	2154.3	62.4	2516.9
1966	39.6	3.5	.4	31.0	201.1	317.8	737.2	688.5	302.7	53.9	11.4	4.0	43.1	232.5	2046.2	69.3	2391.1
1967	1.5	.0	112.9	55.0	194.8	554.3	626.7	237.6	365.1	153.6	1.2	.0	1.5	362.7	1783.7	154.8	2302.7
1968	10.3	2.7	19.6	21.3	134.8	465.1	605.5	447.7	358.4	383.7	1.2	.5	13.0	175.7	1876.7	385.4	2450.8
1969	6.5	3.3	40.6	60.6	290.5	504.2	551.3	433.1	411.9	49.4	24.8	.0	9.8	391.7	1900.5	74.2	2376.2
1970	14.8	8.3	2.7	136.2	116.6	498.8	657.6	376.5	526.7	48.4	3.2	.0	23.1	255.5	2059.6	51.6	2389.8
1971	10.4	3.1	28.2	170.4	170.7	691.4	520.7	419.0	299.2	363.9	27.9	.0	13.5	369.3	1930.3	391.8	2704.9
1972	3.3	19.9	15.6	60.5	191.2	368.8	534.4	244.5	429.9	58.5	9.5	.0	23.2	267.3	1577.6	68.0	1936.
1973	10.4	13.3	10.1	80.0	221.9	559.2	321.9	429.2	481.2	280.8	25.4	2.6	23.7	312.0	1791.5	308.8	2436.0
1974	20.9	.0	43.1	167.2	231.2	364.0	809.4	660.5	447.8	186.4	1.3	5.0	20.9	441.5	2281.7	192.7	2936.8
1975	2.5	5.7	5.0	54.9	207.2	650.7	743.4	209.4	492.1	124.2	.0	.9	8.2	267.1	2095.6	125.1	2496.0
1976	5.0	21.6	2.6	104.8	183.5	497.8	519.3	566.3	206.6	109.9	3.1	.0	26.6	290.9	1790.0	113.0	2220.5
1977	.0	.3	9.4	186.1	217.3	356.0	445.8	583.0	294.9	231.6	36.3	7.9	.3	412.8	1679.7	275.8	2368.6
1978	4.5	5.7	13.9	66.2	216.5	306.1	584.5	279.2	331.2	47.1	15.8	2.1	10.2	296.6	1501.0	65.0	1872.8
1979	6.6	14.2	1.2	79.5	117.6	227.4	669.8	365.8	351.8	362.8	16.5	65.3	20.8	198.3	1614.8	444.6	2278.5
1980	2.8	21.7	24.8	59.9	212.8	380.1	728.6	646.4	262.3	109.2	.1	3.0	24.5	297.5	2017.4	112.3	2451.7
1981	29.0	10.8	24.1	186.9	221.5	324.6	791.1	384.0	338.4	14.0	2.8	26.6	39.8	432.5	1838.1	43.4	2353.8
1982	.0	8.1	51.6	108.2	139.5	374.0	741.7	213.4	307.3	51.4	22.9	1.4	8.1	299.3	1636.4	75.7	2019.5
1983	12.8	3.7	16.7	42.4	223.4	467.6	751.5	315.4	516.6	93.9	.0	21.6	16.5	282.5	2051.1	115.5	2465.6
1984	34.0	12.8	9.7	113.4	346.7	550.1	831.6	313.0	621.5	128.7	3.4	4.4	46.8	469.8	2316.2	136.5	2969.3
1985	.8	15.6	14.3	28.2	279.6	460.6	904.0	293.6	410.2	191.5	.0	20.2	16.4	322.1	2068.4	211.7	2618.6
1986	.5	5.0	3.0	77.2	264.2	452.3	559.8	446.8	495.7	215.3	16.2	10.2	5.5	344.4	1954.6	241.7	2546.3
1987	2.3	21.4	46.4	70.0	177.6	524.4	766.1	914.5	459.6	150.7	6.2	2.9	23.7	294.0	2664.6	159.8	3142.1
1988	3.7	43.1	33.8	85.5	165.4	298.3	736.0	917.1	496.1	38.5	13.8	2.2	46.8	284.7	2447.5	54.5	2833.5
1989	9.2	20.6	15.3	10.6	313.8	492.3	659.4	309.7	720.9	73.7	22.0	12.9	29.8	339.7	2182.3	108.6	2660.4
1990	.3	42.8	59.7	86.0	310.4	457.6	551.3	478.5	406.9	115.8	.0	.0	43.1	456.1	1894.3	115.8	2509.3
MEAN	11.2	15.3	28.6	81.9	225.5	500.8	599.0	481.0	420.4	127.6	10.3	3.9	26.5	336.0	2001.2	141.8	2505.5
PER ANN	.4	.6	1.1	3.3	9.0	20.0	23.9	19.2	16.8	5.1	.4	.2	1.1	13.4	79.9	5.7	100.0
STD	16.6	14.8	25.2	49.5	75.2	142.3	158.5	164.2	148.5	100.1	20.2	9.1	21.5	95.5	300.1	104.4	328.7
COV	147.6	96.7	88.0	60.4	33.3	28.4	26.5	34.1	35.3	78.4	196.3	235.3	81.1	28.4	15.0	73.6	13.1
1991	19.3	7.3	15.1	38.3	173.6	594.4	542.0	445.6	794.8	53.3	.0	25.0	26.6	227.0	2376.8	78.3	2708.7
1992	4.0	17.3	3.2	51.8	173.6	253.7	635.3	376.8	264.3	106.4	2.2	8.4	21.3	228.6	1530.1	117.0	1897.0
1993	17.7	21.8	18.0	144.1	221.8	395.1	654.1	475.5	364.0	175.2	20.3	2.6	39.5	383.9	1888.7	198.1	2510.2
1994	24.9	21.9	30.8	94.0	189.8	354.5	321.1	407.0	275.2	115.1	.5	1.8	46.8	314.6	1357.8	117.4	1327.4

6.GANGETIC WEST BENGAL AREA 66228 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.0	4.9	93.0	90.4	199.6	297.0	336.7	388.1	310.0	171.3	.0	.6	4.9	383.0	1331.8	171.9	1891.6
1872	.9	26.7	5.2	26.3	69.8	261.9	204.5	241.4	190.8	286.7	1.9	2.7	27.6	101.3	898.6	291.3	1318.8
1873	1.4	.0	47.6	47.6	99.9	105.5	394.6	284.5	122.3	32.0	7.6	6.2	1.4	195.1	906.9	45.8	1149.3
1874	32.3	81.6	20.9	24.2	73.5	281.6	168.7	255.7	240.8	267.2	13.3	.0	113.9	118.6	946.8	280.5	1459.8
1875	26.7	6.7	8.8	62.9	155.9	315.6	306.9	299.8	211.6	80.5	.0	.1	33.4	227.6	1133.9	80.6	1475.5
1876	.0	2.2	38.3	30.4	81.7	253.0	428.8	345.0	237.2	181.3	3.5	.0	2.2	150.4	1264.0	184.8	1601.4
1877	53.2	61.8	29.5	54.1	111.9	204.6	309.2	407.9	152.8	73.5	.4	25.6	115.0	195.5	1074.5	99.5	1484.5
1878	7.2	15.1	37.2	58.8	157.8	132.4	242.1	396.9	290.6	96.2	45.3	10.7	22.3	253.8	1062.0	152.2	1490.3
1879	.0	32.6	1.0	3.8	66.4	170.2	262.1	244.0	255.2	97.0	.0	10.3	32.6	71.2	931.5	107.3	1142.6
1880	5.0	75.7	19.1	36.9	146.9	342.5	274.8	444.1	277.0	184.0	8.9	1.8	80.7	202.9	1338.4	194.7	1816.7
1881	.6	1.0	64.3	33.4	150.4	309.6	503.3	466.0	154.9	117.0	.6	3.4	1.6	248.1	1433.8	121.0	1804.5
1882	.0	32.5	29.1	42.7	157.5	249.9	264.6	306.2	225.8	206.2	28.0	.0	32.5	229.3	1046.5	234.2	1542.5
1883	19.9	14.8	53.3	60.0	85.7	263.1	406.7	322.7	142.5	17.1	3.0	35.3	34.7	199.0	1135.0	55.4	1424.1
1884	2.3	13.7	4.8	44.0	123.6	206.8	380.5	198.9	275.4	153.7	.0	.5	16.0	172.4	1061.6	154.2	1404.2
1885	1.3	64.8	9.3	12.4	69.9	246.5	371.5	615.8	255.3	84.4	3.7	26.3	66.1	91.6	1489.1	114.4	1761.2
1886	4.6	.3	72.1	8.2	150.1	210.8	326.6	263.6	355.4	118.4	5.5	1.0	4.9	230.4	1156.4	124.9	1516.6
1887	25.7	.1	68.8	40.9	175.1	177.3	363.6	286.9	202.3	114.2	20.8	.1	25.8	284.8	1030.1	135.1	1475.8
1888	23.1	39.8	10.2	45.5	85.2	117.6	401.5	563.2	173.6	47.4	30.6	.1	62.9	140.9	1255.9	78.1	1537.8
1889	20.2	48.1	5.4	21.3	80.1	288.0	233.5	238.5	184.4	107.2	120.9	.1	68.3	106.8	944.4	228.2	1347.7
1890	2.1	.5	19.0	16.8	109.5	362.3	320.2	200.5	252.0	221.2	10.1	1.1	2.6	145.3	1135.0	232.4	1515.3
1891	6.3	42.3	126.1	3.7	191.6	154.2	329.7	388.9	215.6	13.1	34.3	.0	48.6	321.4	1088.4	47.4	1505.8
1892	.0	7.4	.0	34.5	80.2	234.9	215.7	172.3	214.4	102.9	87.0	.0	7.4	114.7	837.3	189.9	1149.3
1893	19.7	114.2	65.8	45.6	333.3	449.8	314.0	262.4	325.9	105.7	1.9	.0	133.9	444.7	1352.1	107.6	2038.3
1894	.4	13.3	3.7	31.3	38.7	289.8	398.1	334.7	168.7	138.1	82.5	3.7	13.7	73.7	1191.3	224.3	1503.0
1895	5.9	2.1	11.5	53.0	95.5	267.7	238.8	203.9	177.5	97.5	.4	.7	8.0	160.0	887.9	98.6	1154.5
1896	1.5	5.0	4.5	9.4	129.0	327.9	328.6	262.9	171.1	.1	1.2	.0	6.5	142.9	1090.5	1.3	1241.2
1897	1.2	32.2	62.3	50.3	114.0	280.1	289.9	301.6	193.1	200.3	3.9	.6	33.4	226.6	1064.7	204.8	1529.5
1898	7.5	6.4	.5	25.8	87.3	415.9	307.1	400.1	250.9	205.3	.0	.4	13.9	113.6	1374.0	205.7	1707.2
1899	25.3	11.7	2.0	49.8	186.1	305.9	484.9	255.7	263.1	101.7	.0	.8	37.0	237.9	1309.6	102.5	1687.0
1900	5.5	24.4	15.7	66.9	124.0	208.8	287.1	321.7	596.8	51.5	.1	5.8	29.9	206.6	1414.4	57.4	1708.3
1901	43.7	62.7	9.5	69.8	96.0	185.1	296.4	295.5	271.2	71.4	88.3	.0	106.4	175.3	1048.2	159.7	1489.6
1902	.0	2.2	37.7	102.2	141.5	137.3	380.1	263.2	245.9	56.1	14.4	13.6	2.2	281.4	1026.5	84.1	1394.2
1903	17.8	33.0	31.5	27.9	70.9	214.5	189.0	261.4	265.8	218.4	10.4	.0	50.8	130.3	930.7	228.8	1340.6
1904	.0	20.3	29.4	20.0	156.5	320.1	410.3	283.1	157.3	55.3	5.6	.2	20.3	205.9	1170.8	61.1	1458.1
1905	38.2	51.9	107.4	73.2	152.4	70.0	532.4	280.4	281.0	143.0	.0	13.4	90.1	333.0	1163.8	156.4	1743.3
1906	38.4	117.8	63.3	.7	93.8	191.1	315.3	259.0	214.3	126.8	5.6	.1	156.2	157.8	979.7	132.5	1426.2
1907	.0	29.9	95.1	44.5	82.7	347.1	221.7	281.2	233.7	7.7	.0	23.5	29.9	222.3	1083.7	31.2	1367.1
1908	27.9	3.5	.6	6.6	117.9	354.9	369.6	306.0	171.2	20.7	.0	.0	31.4	125.1	1201.7	20.7	1378.9
1909	11.4	5.7	.2	153.5	85.7	330.0	242.8	543.6	280.9	85.8	2.3	19.1	17.1	239.4	1397.3	107.2	1761.0
1910	12.6	2.4	9.4	55.8	97.2	239.6	308.5	228.6	232.9	168.6	.1	.0	15.0	162.4	1009.6	168.7	1355.7
1911	.3	.9	34.3	35.3	109.6	315.3	171.0	306.4	265.1	79.9	11.6	.0	1.2	179.2	1057.8	91.5	1329.7
1912	1.4	30.7	61.6	59.0	97.7	199.6	383.0	249.3	133.9	90.3	85.1	.0	32.1	218.3	965.8	175.4	1391.6
1913	1.5	120.6	36.0	7.6	176.3	500.3	475.5	293.9	188.2	132.6	16.7	6.5	122.1	219.9	1457.9	155.8	1955.7
1914	.0	37.3	19.3	51.2	238.0	242.8	388.8	217.5	165.4	46.1	.0	24.8	37.3	308.5	1014.5	70.9	1431.2
1915	4.0	10.9	81.9	22.5	134.5	223.3	256.4	254.5	255.3	103.2	64.3	.0	14.9	238.9	989.5	167.5	1410.8
1916	2.4	2.0	.3	47.1	52.8	404.8	159.0	331.2	349.3	322.2	90.1	.4	4.4	100.2	1244.3	412.7	1761.6
1917	.0	32.7	15.7	25.8	176.9	398.3	363.2	233.8	200.6	414.7	2.5	.0	32.7	218.4	1195.9	417.2	1864.2
1918	2.2	.0	17.5	42.6	128.6	435.6	187.1	379.5	189.5	8.3	.3	1.5	2.2	188.7	1191.7	10.1	1392.7
1919	46.5	27.6	8.7	47.4	165.6	332.2	282.0	441.6	167.9	45.1	38.8	.0	74.1	221.7	1223.7	83.9	1603.4
1920	.0	33.9	150.5	16.4	84.2	119.2	381.6	322.0	177.5	166.2	.3	.0	33.9	251.1	1000.3	166.5	1451.8
1921	36.5	7.3	11.7	72.5	55.7	257.8	289.1	417.4	193.4	68.5	.0	.0	43.8	139.9	1157.7	68.5	1409.9
1922	6.0	5.2	3.3	17.8	54.5	583.5	240.5	402.6	222.1	79.2	7.6	2.5	11.2	75.6	1448.7	89.3	1624.8
1923	.0	117.3	3.1	19.6	93.5	176.4	331.8	470.0	101.3	62.9	10.6	1.4	117.3	116.2	1079.5	74.9	1387.9
1924	4.5	3.3	.5	38.5	56.7	181.2	317.5	249.8	282.9	85.6	73.7	.0	7.8	95.7	1031.4	159.3	1294.2
1925	16.4	13.2	38.5	70.0	91.2	154.1	323.9	248.5	153.2	212.9	6.3	1.1	29.6	199.7	879.7	220.3	1329.3
1926	34.9	6.7	114.7	18.4	72.8	125.8	567.5	423.3	278.6	102.7	.2	11.0	41.6	205.9	1395.2	113.9	1756.8
1927	34.9	38.2	9.0	21.9	125.0	306.1	402.7	253.1	158.0	47.5	4.0	.0	73.1	155.9	1119.9	51.5	1400.4
1928	16.4	4.8	3.7	53.3	119.4	428.1	480.5	341.6	137.3	188.3	.3	.1	21.2	176.4	1387.5	188.7	1773.0
1929	51.8	21.4	41.3	54.8	44.3	231.0	432.5	349.3	148.1	250.5	.0	31.9	73.2	140.4	1160.9	282.4	1656.9
1930	.4	14.7	22.4	15.1	90.4	222.6	441.2	306.1	261.0	54.7	114.0	.0	15.1	127.9	1230.9	168.7	1542.6
1931	4.1	96.3	33.8	18.4	114.9	166.2	427.0	294.1	223.8	210.8	55.1	.4	100.4	167.1	1111.1	266.3	1644.9
1932	.0	19.0	4.3	38.6	236.1	144.3	340.7	285.9	190.2	76.8	118.8	.0	19.0	279.0	961.1	195.6	1454.7
1933	22.9	46.7	2.1	73.8	168.4	305.4	394.5	484.3	290.7	189.5	2.2	.4	69.6	244.3	1474.9	192.1	1980.9
1934	4.3	21.4	.4	38.1	51.7	211.4	206.6	281.6	203.4	82.0	10.9	23.0	25.7	90.2	903.0	115.9	1134.8
1935	11.3	26.7	40.2	36.4	36.5	223.1	277.9	310.2	177.8	8.0	.0	.4	38.0	113.1	989.0	8.4	1148.5

6.GANGETIC WEST BENGAL AREA 66228 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	9.8	16.0	30.3	21.7	212.7	343.5	340.0	290.6	282.5	87.9	8.3	4.8	25.8	264.7	1256.6	101.0	1648.1
1937	.0	127.8	8.3	13.1	146.8	278.2	270.4	288.9	333.0	131.8	.5	.5	127.8	168.2	1170.5	132.8	1599.3
1938	19.1	33.3	1.0	4.0	230.0	187.1	252.6	380.0	173.7	82.8	14.6	.0	52.4	235.0	993.4	97.4	1378.2
1939	6.6	25.4	16.5	22.8	76.4	245.1	376.1	486.3	264.7	213.5	7.2	1.8	32.0	115.7	1372.2	222.5	1742.4
1940	.0	23.4	122.5	20.1	73.6	220.5	264.3	480.5	235.1	60.1	4.5	2.9	23.4	216.2	1200.4	67.5	1507.5
1941	32.4	.6	.3	20.9	78.0	414.5	435.4	375.7	176.1	249.2	77.9	.0	33.0	99.2	1401.7	327.1	1861.0
1942	2.4	15.6	19.2	70.5	82.3	158.0	372.0	382.8	408.2	209.1	17.8	.0	18.0	172.0	1321.0	226.9	1737.9
1943	42.9	34.7	12.2	101.2	47.4	219.6	438.5	325.8	260.3	101.6	.0	.0	77.6	160.8	1244.2	101.6	1584.2
1944	59.3	21.1	35.0	62.1	36.7	133.6	411.0	473.8	167.0	104.9	.0	.0	80.4	133.8	1185.4	104.9	1504.5
1945	21.6	13.9	9.3	72.9	125.2	209.9	174.9	258.7	237.6	315.0	4.6	.3	35.5	207.4	881.1	319.9	1443.9
1946	.0	5.8	12.7	134.1	126.0	266.5	328.6	348.7	308.8	223.9	27.0	.0	5.8	272.8	1252.6	250.9	1782.1
1947	5.3	15.3	38.1	11.6	88.4	156.5	365.2	306.1	256.5	102.6	1.1	44.1	20.6	138.1	1084.3	147.8	1390.8
1948	104.8	40.2	48.5	46.3	138.6	193.2	272.0	348.5	263.5	152.4	147.1	.0	145.0	233.4	1077.2	299.5	1755.1
1949	11.5	1.9	36.4	152.0	250.9	262.7	364.5	323.9	215.0	109.4	.9	.0	13.4	439.3	1166.1	110.3	1729.1
1950	.0	9.0	16.1	17.6	103.0	406.1	360.2	368.4	185.8	96.6	105.6	.0	9.0	136.7	1320.5	202.2	1668.4
1951	.0	.0	69.0	17.1	71.7	230.4	293.5	240.3	215.5	149.7	36.7	.0	.0	157.8	979.7	186.4	1323.9
1952	1.0	2.2	31.5	82.3	70.3	178.1	421.2	312.2	225.0	211.8	2.6	.0	3.2	184.1	1136.5	214.4	1538.2
1953	30.2	22.7	3.2	27.0	53.3	284.6	344.2	376.7	253.9	77.0	82.5	.0	52.9	83.5	1259.4	159.5	1555.3
1954	9.0	6.0	.4	6.3	82.4	178.5	203.7	297.5	260.6	67.2	.0	40.8	15.0	89.1	940.3	108.0	1152.4
1955	2.1	2.2	8.9	34.7	47.0	190.2	357.1	272.2	185.0	160.5	100.9	.1	4.3	90.6	1004.5	261.5	1360.9
1956	2.4	35.1	66.9	21.4	170.1	333.6	278.7	328.0	416.1	148.4	13.2	5.6	37.5	258.4	1356.4	167.2	1819.5
1957	53.2	27.2	8.7	3.7	8.2	211.3	342.6	239.8	285.5	32.2	.0	.0	80.4	20.6	1079.2	32.2	1212.4
1958	13.9	20.3	21.0	33.6	63.3	84.6	286.3	213.5	376.0	104.3	10.8	.0	34.2	117.9	960.4	115.1	1227.6
1959	27.5	12.0	8.0	35.0	69.8	184.9	264.8	324.5	396.0	394.2	.0	.5	39.5	112.8	1170.2	394.7	1717.2
1960	.9	.3	35.8	2.5	130.3	129.8	374.7	299.2	262.0	103.3	1.2	.0	1.2	168.6	1065.7	104.5	1340.0
1961	9.7	81.3	4.3	4.9	88.2	345.2	207.0	285.8	400.7	113.8	1.1	.4	91.0	97.4	1238.7	115.3	1542.4
1962	11.5	14.3	5.4	69.5	87.6	193.7	250.8	254.8	246.1	157.3	.0	.4	25.8	162.5	945.4	157.7	1291.4
1963	.4	4.1	2.3	56.0	99.7	281.2	263.4	205.8	263.6	123.2	8.3	.2	4.5	158.0	1014.0	131.7	1308.2
1964	1.2	4.7	14.2	40.2	82.9	123.3	382.6	211.4	243.3	139.2	13.2	.0	5.9	137.3	960.6	152.4	1256.2
1965	.5	42.4	54.3	35.4	37.5	232.0	313.8	289.3	177.0	115.6	.1	.7	42.9	127.2	1012.1	116.4	1298.6
1966	35.1	3.5	4.2	26.8	54.7	288.2	182.4	252.3	197.7	118.4	43.6	6.7	38.6	85.7	920.6	168.7	1213.6
1967	56.7	8.2	51.7	75.7	48.8	148.6	221.5	430.5	411.6	128.3	.0	3.5	64.9	176.2	1212.2	131.8	1585.1
1968	6.9	7.9	9.3	9.9	25.0	358.1	395.1	474.4	92.4	120.7	61.1	.3	14.8	44.2	1320.0	182.1	1561.1
1969	3.3	4.8	18.9	88.7	102.3	138.5	313.1	368.0	317.1	46.9	24.2	.5	8.1	209.9	1136.7	71.6	1426.3
1970	11.1	15.8	35.3	9.8	75.9	299.0	298.8	230.2	493.3	223.3	25.8	.0	26.9	121.0	1321.3	249.1	1718.3
1971	25.1	16.3	7.3	180.2	131.4	265.2	487.5	543.3	292.3	202.2	32.1	.0	41.4	318.9	1588.3	234.3	2182.9
1972	1.4	42.7	2.3	15.2	22.2	130.5	263.0	534.0	199.7	49.8	3.8	.0	44.1	39.7	1127.2	53.6	1264.6
1973	1.9	9.5	77.1	23.6	127.3	226.4	273.3	311.6	450.0	194.3	24.3	32.0	11.4	228.0	1261.3	250.6	1751.3
1974	2.9	.0	84.4	38.6	95.2	101.4	475.5	415.4	297.7	146.5	.9	.0	2.9	218.2	1290.0	147.4	1658.5
1975	9.1	25.7	11.3	51.5	58.0	142.0	353.5	309.4	303.3	113.8	30.3	.0	34.8	120.8	1108.2	144.1	1407.9
1976	.0	31.1	24.4	49.0	134.2	136.2	259.1	253.6	216.9	58.2	5.6	.0	31.1	207.6	865.8	63.8	1168.3
1977	11.1	18.9	8.7	74.8	155.4	346.6	453.4	303.7	142.0	103.1	50.1	44.0	30.0	238.9	1245.7	197.2	1711.8
1978	2.0	20.9	58.2	62.0	110.3	251.6	244.9	342.3	564.0	149.4	10.9	7.3	22.9	230.5	1402.8	167.6	1823.8
1979	17.3	26.0	9.1	27.0	25.3	259.9	269.8	190.0	183.9	48.1	10.6	17.3	43.3	61.4	903.6	76.0	1084.3
1980	13.3	20.8	69.0	14.8	128.9	287.9	378.2	267.4	151.0	135.2	.6	.6	34.1	212.7	1084.5	136.4	1467.7
1981	19.8	68.0	62.2	106.2	259.2	236.9	437.9	274.4	209.3	10.0	2.9	75.1	87.8	427.6	1158.5	88.0	1761.9
1982	2.0	48.3	83.4	67.9	34.6	194.7	246.6	362.9	100.8	30.5	13.2	.0	50.3	185.9	905.0	43.7	1184.9
1983	12.6	40.9	54.7	55.1	111.9	191.4	208.8	371.0	210.1	224.7	3.3	12.9	53.5	221.7	981.3	240.9	1497.4
1984	17.5	1.2	1.2	56.0	69.3	538.0	334.6	449.9	196.8	97.5	.0	.0	18.7	126.5	1519.3	97.5	1762.0
1985	8.9	21.9	10.9	16.9	91.4	292.4	247.0	353.0	192.2	135.9	1.1	.0	30.8	119.2	1084.6	137.0	1371.6
1986	9.0	8.9	7.2	57.2	133.6	197.7	312.0	192.6	462.5	160.5	102.1	18.9	17.9	198.0	1164.8	281.5	1662.2
1987	1.5	5.9	22.6	61.8	104.8	164.4	365.4	454.3	287.9	23.9	41.1	4.9	7.4	189.2	1272.0	69.9	1538.5
1988	1.5	19.3	57.5	39.8	114.0	397.2	323.7	271.1	203.6	84.6	32.7	.2	20.8	211.3	1195.6	117.5	1545.2
1989	.2	4.5	11.8	3.6	172.9	280.5	373.8	242.3	327.3	98.2	6.3	17.9	4.7	188.3	1223.9	122.4	1539.3
1990	.0	61.4	118.8	100.3	149.2	303.5	370.6	202.3	331.1	183.3	55.2	3.5	61.4	368.3	1207.5	242.0	1879.2
MEAN	12.8	25.3	30.9	43.2	109.3	250.5	326.5	323.4	244.7	124.8	21.9	5.5	38.2	183.4	1145.2	152.2	1519.0
PER ANN	.8	1.7	2.0	2.8	7.2	16.5	21.5	21.3	16.1	8.2	1.4	.4	2.5	12.1	75.4	10.0	100.0
STD	17.1	28.1	32.5	32.4	54.9	96.1	84.8	89.5	88.4	77.7	33.2	11.8	34.6	79.9	167.8	83.0	220.7
COV	133.0	110.9	105.2	75.0	50.3	38.4	26.0	27.7	36.1	62.2	151.6	213.2	90.5	43.6	14.7	54.5	14.5
1991	21.9	13.8	48.7	32.1	68.5	244.6	351.8	269.9	269.6	91.0	3.5	121.0	35.7	149.3	1135.9	215.5	1536.4
1992	8.2	44.8	.0	19.1	112.6	130.7	352.2	246.9	204.6	61.5	5.6	.2	53.0	131.7	934.4	67.3	1186.4
1993	3.1	2.8	67.2	106.9	147.2	346.9	308.2	439.0	507.1	118.7	29.5	.0	5.9	321.3	1601.2	148.2	2076.6
1994	21.2	59.9	17.0	73.3	121.5	365.9	430.4	348.1	166.8	126.4	13.3	.0	81.1	211.8	1311.2	139.7	1743.8

7.ORISSA AREA 155842 SQ.KM NO OF STATION 13

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.0	22.8	20.6	149.2	61.3	206.2	319.8	180.9	242.0	31.1	.0	.7	22.8	231.1	948.9	31.8	1234.6
1872	.0	13.2	1.7	9.1	35.6	493.8	321.6	319.5	218.9	273.7	63.4	5.7	13.2	46.4	1353.8	342.8	1756.2
1873	.0	.0	35.6	24.0	49.2	70.1	355.4	293.6	161.5	163.5	11.7	23.9	.0	108.8	880.6	199.1	1188.5
1874	20.6	28.5	10.8	3.1	52.7	292.7	300.6	419.6	173.0	216.7	62.0	2.1	49.1	66.6	1185.9	280.8	1582.4
1875	35.4	.0	2.6	26.2	69.0	206.3	473.7	261.9	378.9	166.2	.0	.0	35.4	97.8	1320.8	166.2	1620.2
1876	.0	1.8	17.3	27.4	67.2	112.9	346.2	237.3	319.4	147.9	.1	.0	1.8	111.9	1015.8	148.0	1277.5
1877	29.2	50.3	46.3	54.0	104.8	189.5	281.4	271.4	192.0	72.0	.9	3.7	79.5	205.1	934.3	76.6	1295.5
1878	1.9	3.6	17.8	32.4	108.3	75.7	269.7	339.8	238.0	165.7	57.3	39.4	5.5	158.5	923.2	262.4	1349.6
1879	.0	5.2	9.8	2.5	156.5	136.7	286.9	388.2	266.6	94.7	16.8	15.3	5.2	168.8	1078.4	126.8	1379.2
1880	1.8	26.0	2.9	25.0	77.8	346.5	382.9	470.0	258.3	154.9	80.9	2.5	27.8	105.7	1457.7	238.3	1829.5
1881	.0	.2	46.1	17.7	59.2	255.0	409.5	298.2	228.6	144.8	15.8	4.3	.2	123.0	1191.3	164.9	1479.4
1882	5.2	4.6	2.4	42.2	90.7	164.6	477.2	298.4	213.1	109.6	61.7	8.7	9.8	135.3	1153.3	180.0	1478.4
1883	.8	13.3	38.0	12.7	43.7	465.1	384.9	250.4	271.7	82.1	35.8	24.7	14.1	94.4	1372.1	142.6	1623.2
1884	1.3	23.4	7.8	29.6	40.6	324.8	368.6	275.8	337.5	104.0	5.2	11.2	24.7	78.0	1306.7	120.4	1529.8
1885	.9	61.8	16.8	13.2	100.4	254.8	277.0	216.0	146.1	63.4	52.2	36.7	62.7	130.4	893.9	152.3	1239.3
1886	3.8	1.2	56.2	6.2	99.9	231.9	327.5	281.0	310.6	197.1	58.1	37.2	5.0	162.3	1151.0	292.4	1610.7
1887	4.6	.0	10.2	13.7	74.6	179.6	392.6	346.8	174.9	87.4	24.1	.0	4.6	98.5	1093.9	111.5	1308.5
1888	29.4	29.5	11.8	9.5	54.1	90.1	246.9	504.9	190.4	36.1	72.3	.0	58.9	75.4	1032.3	108.4	1275.0
1889	.0	3.8	.2	11.8	46.7	283.7	339.2	430.1	171.1	253.7	184.8	1.8	3.8	58.7	1224.1	440.3	1726.9
1890	.2	.5	45.6	19.5	52.3	328.7	425.4	310.0	314.5	150.5	45.0	7.8	.7	117.4	1378.6	203.3	1700.0
1891	.2	15.0	92.4	11.9	111.0	58.6	298.5	420.6	413.0	46.0	77.3	.0	15.2	215.3	1190.7	123.3	1544.5
1892	.0	1.0	.0	6.4	24.1	264.0	458.8	194.1	277.3	149.1	22.2	.0	1.0	30.5	1194.2	171.3	1397.0
1893	33.6	53.0	83.9	29.4	265.6	207.2	296.7	364.6	454.9	128.5	28.8	.0	86.6	378.9	1323.4	157.3	1946.2
1894	4.1	10.7	2.0	34.2	12.4	232.5	504.5	241.0	200.6	135.7	60.1	.0	14.8	48.6	1178.6	195.8	1437.8
1895	.5	7.4	3.5	45.7	47.7	462.7	358.1	394.8	193.0	109.7	13.0	.0	7.9	96.9	1408.6	122.7	1636.1
1896	.0	.0	18.4	4.9	51.0	380.7	447.8	517.9	191.8	.0	6.0	.0	.0	74.3	1538.2	6.0	1618.5
1897	5.2	29.6	75.4	39.8	39.3	177.1	308.0	377.2	248.3	182.3	44.8	1.4	34.8	154.5	1110.6	228.5	1528.4
1898	.0	10.4	.6	24.4	59.3	176.2	274.8	310.4	241.1	135.0	6.2	4.2	10.4	84.3	1002.5	145.4	1242.6
1899	1.7	2.5	.2	100.0	74.4	212.9	311.7	214.5	103.6	128.8	.0	.4	4.2	174.6	842.7	129.2	1150.7
1900	3.8	8.8	21.0	38.2	72.9	228.0	238.6	480.2	398.4	140.6	.4	1.6	12.6	132.1	1345.2	142.6	1632.5
1901	39.0	74.9	12.0	51.2	54.6	55.2	296.6	374.2	205.7	71.9	104.7	.0	113.9	117.8	931.7	176.6	1340.0
1902	3.0	.1	8.4	87.3	47.3	87.0	469.8	359.7	181.1	30.0	8.9	27.9	3.1	143.0	1097.6	66.8	1310.5
1903	19.4	18.7	6.9	26.6	60.7	160.0	378.0	264.1	285.9	230.6	33.1	10.3	38.1	94.2	1088.0	274.0	1494.3
1904	.1	15.7	19.4	11.3	89.7	389.3	328.8	356.9	197.6	85.3	.0	2.1	15.8	120.4	1272.6	87.4	1496.2
1905	25.9	20.6	55.1	42.5	90.2	79.9	347.4	287.3	394.6	31.0	.5	.1	46.5	187.8	1109.2	31.6	1375.1
1906	21.7	87.1	44.2	.5	43.5	195.5	369.1	272.6	252.7	92.8	9.1	34.4	108.8	88.2	1089.9	136.3	1423.2
1907	.2	21.6	64.5	77.1	30.6	243.3	200.2	565.2	195.1	26.1	16.7	27.5	21.8	172.2	1203.8	70.3	1468.1
1908	32.7	1.6	8.9	4.8	47.1	215.1	352.9	582.3	207.2	51.7	.0	.0	34.3	60.8	1357.5	51.7	1504.3
1909	3.9	7.5	3.3	130.0	31.9	283.9	436.8	222.1	231.3	33.7	2.0	50.7	11.4	165.2	1174.1	86.4	1437.1
1910	9.8	1.7	1.6	41.7	45.6	231.9	395.3	454.4	267.8	217.1	4.9	.0	11.5	88.9	1349.4	222.0	1671.8
1911	.0	2.8	28.6	14.6	53.4	352.6	158.1	441.2	262.5	71.3	28.5	1.9	2.8	96.6	1214.4	101.7	1415.5
1912	1.2	52.9	12.7	37.1	28.2	106.1	364.3	447.3	216.6	62.3	47.8	.0	54.1	78.0	1134.3	110.1	1376.5
1913	1.9	61.7	10.6	9.7	84.2	228.6	438.2	377.0	146.9	121.9	37.5	1.9	63.6	104.5	1190.7	161.3	1520.1
1914	.0	23.8	16.2	45.2	177.3	294.8	427.7	317.2	319.7	10.4	.0	5.9	23.8	238.7	1359.4	16.3	1638.2
1915	9.8	21.9	32.4	16.4	83.5	128.4	207.6	333.3	269.2	127.5	148.6	.0	31.7	132.3	938.5	276.1	1378.6
1916	.0	4.5	.1	32.3	43.7	291.4	236.1	342.1	178.9	232.8	63.1	.0	4.5	76.1	1048.5	295.9	1425.0
1917	.2	70.8	29.8	15.9	65.7	279.4	319.1	318.9	277.4	342.5	17.0	.2	71.0	111.4	1194.8	359.7	1736.9
1918	12.2	.0	23.0	20.9	118.6	408.6	226.1	345.4	166.7	6.9	6.0	2.6	12.2	162.5	1146.8	15.5	1337.0
1919	62.7	38.3	28.6	21.5	65.0	332.3	305.0	525.8	143.9	88.1	105.2	4.9	101.0	115.1	1307.0	198.2	1721.3
1920	.0	14.6	55.9	25.4	37.3	163.8	560.8	295.7	163.1	40.9	.3	.0	14.6	118.6	1183.4	41.2	1357.8
1921	48.9	2.3	.6	22.6	7.7	208.5	324.0	254.0	326.4	73.0	20.1	.0	51.2	30.9	1112.9	93.1	1288.1
1922	15.0	.8	.1	7.6	41.4	216.4	470.0	301.4	370.0	50.1	27.3	.0	15.8	49.1	1357.8	77.4	1500.1
1923	.0	79.9	11.2	15.1	43.9	102.4	278.5	359.4	188.2	115.1	101.7	2.1	79.9	70.2	928.5	218.9	1297.5
1924	29.7	7.9	3.6	8.7	80.0	96.7	220.7	303.7	229.1	102.5	165.4	.0	37.6	92.3	850.2	267.9	1248.0
1925	1.1	.0	4.8	42.0	106.2	359.8	447.3	400.2	195.0	208.7	1.7	10.3	1.1	153.0	1402.3	220.7	1777.1
1926	33.8	10.5	83.7	35.4	71.2	63.5	287.5	587.1	280.1	77.0	.0	.6	44.3	190.3	1218.2	77.6	1530.4
1927	2.6	31.5	10.2	7.6	46.8	258.3	413.5	428.2	196.2	101.6	23.3	.0	34.1	64.6	1296.2	124.9	1519.8
1928	5.9	4.2	6.3	64.4	50.3	235.7	499.6	253.5	211.5	234.6	4.9	.9	10.1	121.0	1200.3	240.4	1571.8
1929	17.6	21.6	4.7	29.1	29.0	170.5	516.6	452.6	199.1	232.2	.0	17.9	39.2	62.8	1338.8	250.1	1690.9
1930	.0	14.9	9.6	35.2	32.8	183.4	414.4	318.7	280.2	37.9	159.7	7.7	14.9	77.6	1196.7	205.3	1494.5
1931	5.2	33.7	25.7	16.6	27.0	113.8	251.5	513.8	208.9	242.5	47.6	.8	38.9	69.3	1088.0	290.9	1487..
1932	.0	37.5	12.0	17.5	79.1	96.3	503.1	250.1	258.7	47.4	131.1	.0	37.5	108.6	1108.2	178.5	1432.8
1933	16.8	60.5	7.2	20.5	136.9	307.2	400.0	492.6	296.9	142.6	20.5	14.2	77.3	164.6	1496.7	177.3	1915.9
1934	.0	1.7	3.7	4.9	10.8	226.3	361.2	448.0	277.7	92.3	11.8	3.9	1.7	19.4	1313.2	108.0	1442.3
1935	1.2	9.7	13.6	30.9	9.7	143.1	576.9	206.9	275.0	18.2	.0	1.5	10.9	54.2	1201.9	19.7	1286.7

7.ORISSA AREA 155842 SQ.KM NO OF STATION 13

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	16.8	43.5	8.4	8.8	171.1	507.7	378.8	381.6	230.3	185.5	16.2	4.8	60.3	188.3	1498.4	206.5	1953.5
1937	.0	94.1	21.9	67.4	60.4	246.2	410.8	268.2	289.3	89.0	.4	.2	94.1	149.7	1214.5	89.6	1547.9
1938	7.7	22.4	13.9	15.7	103.1	227.7	257.5	316.3	223.4	197.4	27.2	.0	30.1	132.7	1024.9	224.6	1412.3
1939	7.5	10.9	30.4	21.7	23.2	196.7	447.3	424.9	228.1	189.6	15.0	3.9	18.4	75.3	1297.0	208.5	1599.2
1940	.0	29.1	77.2	26.0	132.2	321.2	603.8	405.3	123.8	93.5	4.2	10.1	29.1	235.4	1454.1	107.8	1826.4
1941	28.4	.5	7.8	18.0	54.4	301.3	352.1	284.1	195.6	154.2	58.6	.0	28.9	80.2	1133.1	212.8	1455.0
1942	11.1	18.3	1.3	31.4	21.2	202.6	424.8	364.6	299.5	67.6	93.3	.9	29.4	53.9	1291.5	161.8	1536.6
1943	82.8	2.9	11.7	66.2	54.5	187.7	500.4	447.5	304.0	66.9	14.7	.0	85.7	132.4	1439.6	81.6	1739.3
1944	34.5	74.9	75.9	36.6	23.4	140.4	547.2	453.4	152.5	153.7	6.6	.0	109.4	135.9	1293.5	160.3	1699.1
1945	23.0	2.2	.1	48.9	53.8	160.1	423.4	287.4	383.7	174.1	3.6	5.4	25.2	102.8	1254.6	183.1	1565.7
1946	1.1	1.0	6.5	87.1	80.9	243.9	293.1	413.7	214.8	141.5	58.1	11.8	2.1	174.5	1165.5	211.4	1553.5
1947	21.0	20.0	13.9	14.1	29.6	214.1	379.2	412.8	180.3	143.3	8.3	67.3	41.0	57.6	1186.4	218.9	1503.9
1948	13.4	40.9	13.9	26.9	62.6	215.1	301.6	368.3	238.2	80.7	71.6	1.3	54.3	103.4	1123.2	153.6	1434.5
1949	3.2	7.5	3.5	21.1	60.1	130.5	286.4	346.0	268.8	277.9	1.2	.0	10.7	84.7	1031.7	279.1	1406.2
1950	.0	21.2	64.0	1.1	70.5	284.2	366.0	308.4	204.7	65.5	144.4	.0	21.2	135.6	1163.3	209.9	1530.0
1951	1.7	.0	79.1	32.2	65.7	204.0	375.1	339.5	178.7	168.1	46.4	.0	1.7	177.0	1097.3	214.5	1490.5
1952	.1	8.3	20.0	34.3	33.3	188.9	349.3	397.1	319.5	180.7	5.6	.1	8.4	87.6	1254.8	186.4	1537.2
1953	37.2	5.7	.1	4.0	32.7	241.8	225.3	502.0	255.3	61.1	68.1	.0	42.9	36.8	1224.4	129.2	1433.3
1954	.6	4.8	12.6	9.0	31.5	157.5	218.9	266.8	366.7	169.5	.0	14.7	5.4	53.1	1009.9	184.2	1252.6
1955	1.4	.0	6.9	27.2	70.8	206.3	203.4	380.0	354.5	314.7	86.3	.2	1.4	104.9	1144.2	401.2	1651.7
1956	.2	42.7	8.0	20.7	104.7	368.0	450.1	440.9	324.4	217.1	11.8	.0	42.9	133.4	1583.4	228.9	1988.6
1957	17.2	28.2	32.4	8.6	18.2	138.3	299.8	420.7	191.0	34.2	.0	.0	45.4	59.2	1049.8	34.2	1188.6
1958	10.9	33.6	13.5	21.7	44.6	107.5	432.9	271.5	354.5	216.2	63.9	.0	44.5	79.8	1166.4	280.1	1570.8
1959	19.0	4.4	3.4	21.1	56.2	213.6	359.4	318.6	269.9	231.5	2.5	2.8	23.4	80.7	1161.5	236.8	1502.4
1960	4.2	.5	32.6	14.5	42.2	203.3	395.9	433.5	194.5	111.2	7.1	16.5	4.7	89.3	1227.2	134.8	1456.0
1961	20.0	96.0	1.0	22.1	62.2	250.9	318.1	307.2	405.0	161.6	11.2	2.1	116.0	85.3	1281.2	174.9	1657.4
1962	7.1	4.8	19.8	73.1	35.2	176.8	423.0	286.1	247.3	181.1	5.3	2.8	11.9	128.1	1133.2	189.2	1462.4
1963	.0	7.3	7.6	46.4	81.8	235.7	312.9	336.8	310.7	185.8	5.0	.2	7.3	135.8	1196.1	191.0	1530.2
1964	.2	25.9	2.5	23.9	56.2	142.9	428.0	487.2	197.7	72.4	5.6	.0	26.1	82.6	1255.8	78.0	1442.5
1965	5.9	14.4	51.8	27.6	64.3	131.6	421.5	223.7	211.2	102.8	1.2	1.0	20.3	143.7	988.0	105.0	1257.0
1966	47.8	4.6	1.2	29.2	37.7	292.4	369.9	191.7	183.0	73.1	66.1	4.1	52.4	68.1	1037.0	143.3	1300.8
1967	42.9	.0	75.2	37.0	22.7	205.3	312.2	393.9	252.0	25.2	1.1	17.7	42.9	134.9	1163.4	44.0	1385.2
1968	35.0	24.4	22.6	22.8	23.5	168.8	297.2	302.4	273.9	220.6	51.0	.0	59.4	68.9	1042.3	271.6	1442.2
1969	.0	.4	3.6	26.2	68.0	155.9	492.8	274.5	224.9	47.9	48.1	12.2	.4	97.8	1148.1	108.2	1354.5
1970	12.3	96.0	70.0	24.5	62.2	212.0	238.9	321.7	120.9	142.9	18.0	.0	108.3	156.7	893.5	160.9	1319.4
1971	14.2	33.7	3.0	85.2	89.6	325.7	266.5	383.4	152.2	228.2	2.9	.0	47.9	177.8	1127.8	231.1	1584.6
1972	.0	19.4	3.7	19.3	17.0	133.7	350.2	318.6	326.7	87.5	35.6	.0	19.4	40.0	1129.2	123.1	1311.7
1973	.0	6.7	40.9	9.0	66.6	111.1	471.4	368.6	210.6	191.9	15.4	19.3	6.7	116.5	1161.7	226.6	1511.5
1974	.0	4.2	40.2	16.3	53.1	102.3	173.4	326.8	152.5	130.4	15.4	.0	4.2	109.6	755.0	145.8	1014.6
1975	4.2	24.3	17.3	21.0	22.7	223.6	244.6	395.7	231.3	123.2	17.8	.0	28.5	61.0	1095.2	141.0	1325.7
1976	.0	13.5	16.3	26.5	49.2	74.9	334.7	416.2	144.8	49.5	37.0	1.4	13.5	92.0	970.6	87.9	1164.0
1977	5.3	5.6	4.3	66.2	105.9	181.7	329.6	342.8	261.0	59.9	95.3	5.0	10.9	176.4	1115.1	160.2	1462.6
1978	.8	23.9	32.6	13.0	32.8	162.5	307.9	380.6	154.3	97.2	19.4	15.7	24.7	78.4	1005.3	132.3	1240.7
1979	5.1	19.2	5.4	23.8	15.8	218.8	244.8	244.3	162.3	47.8	13.1	8.8	24.3	45.0	870.2	69.7	1009.2
1980	12.9	10.7	33.7	24.9	26.8	304.8	401.4	219.0	330.6	92.8	5.0	5.5	23.6	85.4	1255.8	103.3	1468.1
1981	22.8	17.5	54.4	27.9	80.3	177.4	249.4	376.0	291.4	12.9	2.1	6.9	40.3	162.6	1094.2	21.9	1319.0
1982	5.3	31.7	74.4	31.8	35.3	187.7	187.1	573.4	125.8	44.3	6.5	.0	37.0	141.5	1074.0	50.8	1303.3
1983	.8	59.7	22.8	48.2	69.7	145.1	256.8	307.8	299.5	91.2	3.7	9.5	60.5	140.7	1009.2	104.4	1314.8
1984	11.8	9.2	1.8	53.3	60.0	306.8	364.8	490.8	125.5	59.3	.0	.0	21.0	115.1	1287.9	59.3	1483.3
1985	24.3	39.3	3.4	15.4	59.4	164.7	250.9	416.2	332.2	160.8	1.7	.0	63.6	78.2	1164.0	162.5	1468.3
1986	29.3	46.7	10.1	48.9	78.0	309.5	434.6	329.2	178.9	167.1	118.8	15.6	76.0	137.0	1252.2	301.5	1766.7
1987	18.7	4.6	23.8	24.6	63.8	121.3	423.6	203.5	160.4	101.3	121.6	3.4	23.3	112.2	908.8	226.3	1270.6
1988	.0	36.6	32.5	55.1	43.9	250.2	317.5	264.4	264.0	74.7	2.3	.5	36.6	131.5	1096.1	77.5	1341.7
1989	.0	.7	8.4	3.7	78.6	356.9	284.0	421.8	201.2	38.8	.0	2.2	.7	90.7	1263.9	41.0	1396.3
1990	.0	66.1	98.2	83.0	136.3	238.7	294.3	410.6	257.7	201.5	128.4	1.6	66.1	317.5	1201.3	331.5	1916.4
MEAN	10.6	21.3	22.5	30.4	62.3	217.5	352.9	354.4	241.8	122.3	34.4	6.2	31.9	115.2	1166.7	162.9	1476.6
PER ANN	.7	1.4	1.5	2.1	4.2	14.7	23.9	24.0	16.4	8.3	2.3	.4	2.2	7.8	79.0	11.0	100.0
STD	14.9	23.6	24.2	24.9	37.6	93.8	91.9	91.5	72.2	72.2	42.2	11.1	29.0	55.5	158.5	85.7	188.8
COV	140.3	111.2	107.7	82.1	60.4	43.1	26.0	25.8	29.8	59.0	122.9	180.3	91.0	48.2	13.6	52.6	12.8
1991	26.1	3.3	29.7	30.4	35.6	143.4	444.1	450.5	185.5	103.6	47.9	7.1	29.4	95.7	1223.5	158.6	1507.2
1992	7.9	18.0	.0	27.5	76.7	196.6	407.3	362.8	178.2	76.8	11.5	.0	25.9	104.2	1144.9	88.3	1363.3
1993	.1	1.2	6.7	68.2	85.7	295.2	312.3	395.9	281.8	65.1	17.2	.0	1.3	160.6	1285.2	82.3	1529.4
1994	1.8	32.4	2.4	58.0	53.0	301.8	470.3	513.3	260.7	75.0	24.4	.0	34.2	113.4	1546.1	99.4	1793.1

8. BIHAR PLATEAU AREA 79638 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.0	5.2	34.9	22.5	93.5	270.0	345.5	361.0	328.1	20.3	.0	6.0	5.2	150.9	1304.6	26.3	1487.0
1872	3.6	25.4	6.9	31.2	29.8	168.4	261.9	234.6	226.9	103.7	1.6	2.9	29.0	67.9	891.8	108.2	1096.9
1873	1.9	.2	35.8	12.6	36.0	77.9	479.0	351.6	239.6	8.3	.2	5.5	2.1	84.4	1148.1	14.0	1248.6
1874	23.8	74.1	33.3	6.0	30.6	261.2	284.7	399.9	258.8	188.9	9.0	.0	97.9	69.9	1204.6	197.9	1570.3
1875	40.8	23.3	2.1	18.0	91.9	213.4	326.2	274.4	177.4	36.8	.0	.0	64.1	112.0	991.4	36.8	1204.3
1876	.0	.0	4.4	7.5	43.1	215.9	452.6	343.4	178.7	127.4	.0	.0	.0	55.0	1190.6	127.4	1373.0
1877	67.9	66.6	36.0	53.4	81.6	191.5	241.7	426.8	183.5	58.9	5.9	28.9	134.5	171.0	1043.5	93.7	1442.7
1878	10.9	9.1	29.8	46.2	106.1	74.3	306.0	339.7	220.5	31.3	33.5	12.9	20.0	182.1	940.5	77.7	1220.3
1879	.0	25.3	.1	.0	26.1	168.8	343.7	360.8	233.9	96.2	.0	.5	25.3	26.2	1107.2	96.7	1255.4
1880	3.3	59.4	3.1	9.2	111.4	234.9	250.8	361.6	213.0	135.4	8.6	2.3	62.7	123.7	1060.3	146.3	1393.0
1881	2.9	3.3	62.5	5.0	62.2	212.0	471.6	393.2	139.4	90.4	6.0	.0	6.2	129.7	1216.2	96.4	1448.5
1882	.3	20.3	.0	18.3	105.7	193.1	279.5	329.6	249.7	114.6	27.3	.0	20.6	124.0	1051.9	141.9	1338.4
1883	27.3	3.8	63.4	8.3	36.8	247.3	413.4	272.6	200.9	7.4	22.6	14.5	31.1	108.5	1134.2	44.5	1318.3
1884	.4	5.8	.0	8.4	51.2	132.0	273.6	253.6	251.6	64.3	.0	2.7	6.2	59.6	910.8	67.0	1043.6
1885	8.5	23.6	20.9	4.6	26.0	283.0	317.8	443.8	233.4	47.9	1.5	57.4	32.1	51.5	1278.0	106.8	1468.4
1886	4.3	.4	52.5	7.7	97.1	185.7	313.7	287.5	301.4	187.4	13.5	.0	4.7	157.3	1088.3	200.9	1451.2
1887	55.0	.0	7.3	9.3	234.3	161.9	335.4	295.4	185.8	38.9	.0	.0	55.0	250.9	978.5	38.9	1323.3
1888	33.5	19.4	2.2	6.1	39.6	76.6	425.6	555.7	154.3	16.0	11.4	1.2	52.9	47.9	1212.2	28.6	1341.6
1889	19.2	17.7	12.3	14.9	44.3	269.6	333.5	264.7	177.9	95.4	45.2	.0	36.9	71.5	1045.7	140.6	1294.7
1890	.0	.0	28.5	6.8	59.0	245.0	400.3	271.4	182.1	91.3	.8	3.7	.0	94.3	1098.8	95.8	1288.9
1891	19.8	9.8	127.4	4.1	110.0	79.7	275.9	381.9	249.0	10.3	6.3	.0	29.6	241.5	986.5	16.6	1274.2
1892	.0	34.8	1.3	4.8	37.7	207.7	370.3	231.8	227.7	78.4	19.2	.0	34.8	43.8	1037.5	97.6	1213.7
1893	23.2	103.8	51.6	16.7	146.7	375.2	394.4	269.3	371.4	102.4	2.7	.0	127.0	215.0	1410.3	105.1	1857.4
1894	.4	20.6	1.1	18.3	12.4	258.7	419.1	441.2	206.6	169.4	25.7	2.3	21.0	31.8	1325.6	197.4	1575.8
1895	9.6	8.4	12.8	46.3	43.8	208.3	344.8	216.0	165.9	70.7	.0	.4	18.0	102.9	935.0	71.1	1127.0
1896	1.0	2.1	.0	4.0	40.3	343.6	426.3	350.6	169.1	.0	14.8	16.7	3.1	44.3	1289.6	31.5	1368.5
1897	7.6	49.2	43.4	22.5	45.9	177.0	278.7	334.0	198.4	147.2	.1	.0	56.8	111.8	988.1	147.3	1304.0
1898	.0	23.0	2.0	13.9	31.4	258.7	344.8	318.8	311.6	52.0	.0	4.2	23.0	47.3	1233.9	56.2	1360.4
1899	26.6	8.8	2.5	55.4	54.0	320.4	409.2	184.9	93.2	17.8	.0	.0	35.4	111.9	1007.7	17.8	1172.8
1900	54.6	8.8	2.5	63.8	67.0	193.2	220.5	353.2	367.9	47.2	.0	15.8	63.4	133.3	1134.8	63.0	1394.5
1901	83.4	69.6	7.8	12.9	51.1	42.0	259.6	380.6	228.3	31.7	10.9	.0	153.0	71.8	910.5	42.6	1177.9
1902	3.9	10.5	20.5	20.8	89.2	68.0	385.3	204.3	336.2	16.5	4.7	2.2	14.4	130.5	993.8	23.4	1162.1
1903	24.7	12.6	7.9	54.3	66.3	127.1	192.2	265.4	182.7	197.6	.2	.0	37.3	128.5	767.4	197.8	1131.0
1904	.9	14.7	48.4	9.7	125.5	300.3	498.1	332.2	111.4	30.5	1.1	.9	15.6	183.6	1242.0	32.5	1473.7
1905	41.3	47.6	78.0	36.3	63.2	34.0	432.2	254.6	338.8	16.2	.0	2.7	88.9	177.5	1059.6	18.9	1344.9
1906	43.5	128.2	40.6	.9	25.9	175.4	319.1	280.8	201.1	104.5	10.4	1.6	171.7	67.4	976.4	116.5	1332.0
1907	1.3	70.1	81.8	30.0	23.0	356.8	213.1	463.3	212.1	6.9	.0	23.6	71.4	134.8	1245.3	30.5	1482.0
1908	13.9	49.0	5.2	.0	41.0	225.0	382.4	331.2	143.0	30.8	.0	.0	62.9	46.2	1081.6	30.8	1221.5
1909	35.7	6.6	2.0	67.0	19.4	243.5	288.7	418.2	272.5	24.5	.0	20.3	42.3	88.4	1222.9	44.8	1398.4
1910	24.6	12.4	4.9	24.1	52.6	235.1	264.3	342.9	232.8	80.8	14.6	.0	37.0	81.6	1075.1	95.4	1289.1
1911	.8	.0	40.3	6.2	23.3	511.6	147.1	306.5	319.5	102.0	57.0	.0	.8	69.8	1284.7	159.0	1514.3
1912	4.1	21.6	17.1	25.2	52.1	134.5	362.3	359.3	85.1	56.0	63.8	.0	25.7	94.4	941.2	119.8	1181.1
1913	3.5	126.6	46.6	.1	68.4	433.2	302.5	361.7	180.7	80.5	22.3	18.4	130.1	115.1	1278.1	121.2	1644.5
1914	.0	19.0	27.8	20.1	147.9	113.8	346.1	320.9	153.5	32.6	.0	8.3	19.0	195.8	934.3	40.9	1190.0
1915	9.7	52.1	40.3	6.1	46.7	162.2	256.4	223.0	196.9	49.2	38.6	.0	61.8	93.1	838.5	87.8	1081.2
1916	.0	15.5	.9	14.2	55.1	283.1	209.0	280.1	242.6	269.3	9.2	.0	15.5	70.2	1014.8	278.5	1379.0
1917	1.3	41.1	12.7	9.7	124.1	258.8	293.9	403.5	302.4	305.0	.0	.3	42.4	146.5	1258.6	305.3	1752.8
1918	5.7	.5	6.3	14.9	64.3	323.2	121.0	390.4	178.2	3.4	.0	.8	6.2	85.5	1012.8	4.2	1108.7
1919	114.2	19.3	28.6	26.0	47.8	357.5	298.6	416.6	220.9	123.7	2.3	.0	133.5	102.4	1293.6	126.0	1655.5
1920	.0	26.8	64.4	7.5	60.8	104.4	730.9	333.8	181.3	6.1	.0	.0	26.8	132.7	1350.4	6.1	1516.0
1921	37.4	18.5	.0	19.5	14.4	235.6	393.0	422.5	168.6	40.8	.0	.0	55.9	33.9	1219.7	40.8	1350.3
1922	14.2	2.3	.0	16.8	9.1	368.2	367.4	360.7	260.3	52.9	13.6	1.3	16.5	25.9	1356.6	67.8	1466.8
1923	.9	70.4	5.0	3.2	32.5	165.4	431.5	595.4	155.4	56.3	22.7	1.2	71.3	40.7	1347.7	80.2	1539.9
1924	22.2	17.4	.6	10.8	19.3	159.5	368.3	259.9	307.1	71.1	121.8	.0	39.6	30.7	1094.8	192.9	1358.0
1925	12.5	8.8	12.8	51.0	92.9	213.4	423.9	280.6	147.5	52.1	4.1	.4	21.3	156.7	1065.4	56.6	1300.0
1926	34.9	2.3	90.4	9.3	35.3	41.9	443.0	369.2	278.8	36.3	4.6	25.0	37.2	135.0	1132.9	65.9	1371.0
1927	30.7	105.6	33.2	.7	54.8	110.8	436.9	314.1	151.9	45.3	14.2	.0	136.3	88.7	1013.7	59.5	1298.2
1928	57.3	6.3	3.2	31.6	42.7	277.0	427.8	146.9	193.8	158.6	.0	8.3	63.6	77.5	1045.5	166.9	1353.5
1929	58.5	20.1	13.3	11.3	18.0	99.7	488.8	384.2	92.4	223.6	.0	57.7	78.6	42.6	1065.1	281.3	1467.6
1930	.0	7.0	8.4	22.7	11.7	111.3	516.0	302.8	223.5	45.2	134.3	3.7	7.0	42.8	1153.6	183.2	1386.6
1931	7.3	127.7	17.7	2.8	33.5	125.2	371.0	325.7	247.7	115.4	32.9	1.2	135.0	54.0	1069.6	149.5	1408.1
1932	.0	35.1	1.5	13.2	43.9	84.1	386.8	270.9	237.8	43.5	53.3	1.6	35.1	58.6	979.6	98.4	1171.7
1933	58.4	54.7	6.1	36.2	118.5	226.4	335.6	346.6	203.1	78.4	3.4	6.3	113.1	160.8	1111.7	88.1	1473.7
1934	33.8	11.5	1.5	19.6	13.6	159.3	306.0	371.8	223.2	52.6	12.1	3.0	45.3	34.7	1060.3	67.7	1208.0
1935	38.0	14.3	8.8	20.2	6.0	113.4	296.8	485.1	242.8	2.0	.0	.0	52.3	35.0	1138.1	2.0	1227.4

8. BIHAR PLATEAU AREA 79638 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	15.7	20.1	18.0	3.2	118.7	276.8	353.0	299.2	335.9	138.1	13.8	12.9	35.8	139.9	1264.9	164.8	1605.4
1937	.0	103.1	3.9	29.6	83.7	207.0	323.4	287.5	272.1	120.1	.0	.0	103.1	117.2	1090.0	120.1	1430.4
1938	26.9	38.1	.0	.8	101.5	189.3	220.5	289.8	175.5	41.0	1.3	.0	65.0	102.3	875.1	42.3	1084.7
1939	20.0	43.1	33.3	13.1	19.1	243.3	382.1	378.6	277.3	124.8	.0	.0	63.1	65.5	1281.3	124.8	1534.7
1940	.0	55.3	110.8	16.0	51.9	113.9	326.3	383.0	143.7	61.4	.1	28.7	55.3	178.7	966.9	90.2	1291.1
1941	41.0	5.1	4.4	5.1	61.8	301.9	395.5	422.9	205.7	176.3	31.5	.1	46.1	71.3	1326.0	207.9	1651.3
1942	7.8	54.6	26.6	26.7	26.5	131.9	518.4	479.2	375.9	25.2	8.3	.0	62.4	79.8	1505.4	33.5	1681.1
1943	72.6	15.9	.2	42.5	42.9	130.9	457.8	548.2	245.4	94.8	.0	.0	88.5	85.6	1382.3	94.8	1651.2
1944	32.1	60.0	36.9	33.8	26.2	148.6	448.4	455.2	108.5	119.9	5.7	.0	92.1	96.9	1160.7	125.6	1475.3
1945	56.9	24.1	.2	23.9	48.2	163.0	240.5	306.9	263.7	149.3	10.3	1.8	81.0	72.3	974.1	161.4	1288.8
1946	.0	14.7	26.4	82.5	89.9	238.6	334.3	328.6	225.2	159.0	30.8	.3	14.7	198.8	1126.7	190.1	1530.3
1947	19.3	18.3	50.6	6.0	41.2	180.5	282.5	261.8	262.7	122.5	14.7	19.9	37.6	97.8	987.5	157.1	1280.0
1948	27.8	14.8	25.1	19.9	58.0	204.8	381.9	280.5	204.5	101.5	108.2	.3	42.6	103.0	1071.7	210.0	1427.3
1949	21.8	21.1	20.6	47.5	113.6	195.9	369.6	392.4	173.5	70.7	.0	.1	42.9	181.7	1131.4	70.8	1426.8
1950	1.5	11.0	39.4	4.5	56.5	317.7	365.1	350.2	199.6	33.1	11.7	6.9	12.5	100.4	1232.6	51.7	1397.2
1951	5.9	.7	47.0	26.9	36.5	166.5	322.7	273.0	289.5	95.6	10.1	.0	6.6	110.4	1051.7	105.7	1274.4
1952	4.3	13.0	31.3	72.4	76.8	161.6	348.5	310.2	281.6	71.3	1.1	1.7	17.3	180.5	1101.9	74.1	1373.8
1953	32.2	10.7	.0	6.4	35.9	224.5	457.9	381.1	281.2	17.6	33.5	.0	42.9	42.3	1344.7	51.1	1481.0
1954	13.8	9.9	2.2	6.2	31.7	150.8	250.8	254.4	264.0	40.9	.0	5.0	23.7	40.1	920.0	45.9	1029.7
1955	64.7	10.6	8.4	5.5	29.4	128.3	292.7	230.1	139.9	132.3	19.0	.0	75.3	43.3	791.0	151.3	1060.9
1956	10.7	34.3	52.4	11.6	76.7	226.3	294.6	345.2	335.9	132.1	19.4	11.8	45.0	140.7	1202.0	163.3	1551.0
1957	56.4	17.5	27.8	1.8	.2	112.3	339.4	225.3	257.7	28.7	.0	.0	73.9	29.8	934.7	28.7	1067.1
1958	16.2	35.4	19.1	20.1	29.1	108.0	372.9	303.5	284.1	91.9	.0	.0	51.6	68.3	1068.5	91.9	1280.3
1959	33.1	6.8	2.1	24.2	56.7	235.7	327.9	322.3	294.1	307.9	.3	.0	39.9	83.0	1180.0	308.2	1611.1
1960	5.0	.3	23.2	3.0	17.2	99.1	292.0	437.4	213.4	64.9	.2	.0	5.3	43.4	1041.9	65.1	1155.7
1961	10.1	97.8	.0	2.4	39.7	287.4	294.5	403.5	305.3	170.1	.5	6.2	107.9	42.1	1290.7	176.8	1617.5
1962	11.8	20.9	9.4	18.9	42.5	149.7	292.5	252.2	224.2	49.0	.0	8.5	32.7	70.8	918.6	57.5	1079.6
1963	3.8	10.2	19.8	27.7	65.4	170.7	324.3	251.9	320.1	262.4	18.8	.0	14.0	112.9	1067.0	281.2	1475.1
1964	2.4	15.9	3.8	32.2	67.4	201.0	293.5	359.0	214.4	69.5	7.8	.0	18.3	103.4	1067.9	77.3	1266.9
1965	.9	15.9	36.6	49.6	20.0	77.5	368.8	209.2	258.0	53.5	.0	1.9	16.8	106.2	913.5	55.4	1091.9
1966	39.9	5.2	1.2	17.0	23.4	216.3	161.9	244.9	72.3	47.2	18.6	14.3	45.1	41.6	695.4	80.1	862.2
1967	13.2	.3	56.1	28.7	31.3	99.1	260.8	476.8	217.6	22.1	.2	16.3	13.5	116.1	1054.3	38.6	1222.5
1968	60.0	8.6	7.3	3.1	40.7	274.5	324.7	329.4	69.6	62.5	.0	3.5	68.6	51.1	998.2	66.0	1183.9
1969	5.5	5.1	2.0	26.2	103.1	112.0	337.8	344.0	204.0	42.0	29.1	.2	10.6	131.3	997.8	71.3	1211.0
1970	15.4	11.6	24.2	8.2	48.3	187.6	308.9	203.4	464.7	59.3	1.3	.0	27.0	80.7	1164.6	60.6	1332.9
1971	51.7	20.0	1.5	94.8	83.4	308.7	418.4	542.7	227.0	108.7	5.9	.0	71.7	179.7	1496.8	114.6	1862.8
1972	5.0	51.9	.3	20.6	2.8	66.0	264.4	406.4	179.2	81.0	17.5	.3	56.9	23.7	916.0	98.8	1095.4
1973	6.1	11.7	29.0	4.0	39.9	224.9	247.2	275.4	426.8	244.6	10.1	.8	17.8	72.9	1174.3	255.5	1520.5
1974	1.4	2.0	23.8	5.0	59.6	71.5	315.2	327.5	270.0	62.5	1.5	.3	3.4	88.4	984.2	64.3	1140.3
1975	28.2	29.2	33.6	16.3	40.0	107.4	481.2	277.1	181.1	95.1	.0	.0	57.4	89.9	1046.8	95.1	1289.2
1976	.3	16.2	5.6	22.5	64.4	127.9	397.9	263.4	465.1	10.2	6.7	3.3	16.5	92.5	1254.3	20.2	1383.5
1977	20.4	14.7	6.0	44.9	102.2	304.9	503.0	403.0	195.9	62.4	41.8	19.5	35.1	153.1	1406.8	123.7	1718.7
1978	7.3	66.3	46.4	31.1	29.2	274.8	220.0	347.5	393.8	114.2	6.4	18.7	73.6	106.7	1236.1	139.3	1555.7
1979	30.9	39.3	13.4	18.0	6.6	149.4	309.4	161.9	150.3	29.8	29.0	10.8	70.2	38.0	771.0	69.6	948.8
1980	13.0	5.7	47.2	21.5	57.9	332.2	274.9	224.3	221.2	73.7	.0	1.1	18.7	126.6	1052.6	74.8	1272.7
1981	37.7	27.7	16.9	39.5	113.0	128.7	393.2	211.5	203.1	1.9	.4	16.4	65.4	169.4	936.5	18.7	1190.0
1982	6.0	18.3	68.5	29.4	39.0	167.3	244.1	346.1	131.9	38.3	17.6	9.6	24.3	136.9	889.4	65.5	1116.1
1983	.4	21.2	6.2	50.4	95.2	179.1	272.5	256.9	278.6	89.2	.0	19.0	21.6	151.8	987.1	108.2	1268.7
1984	26.8	35.1	.5	6.7	43.2	419.5	288.8	392.7	118.5	53.5	.0	.0	61.9	50.4	1219.5	53.5	1385.3
1985	16.6	6.6	.5	10.6	45.8	112.6	280.9	292.3	229.9	166.1	.7	.0	23.2	56.9	915.7	166.8	1162.6
1986	8.9	18.4	2.2	29.1	62.2	194.2	318.6	220.4	181.9	127.0	31.1	63.0	27.3	93.5	915.1	221.1	1257.0
1987	4.4	18.2	6.1	20.8	41.7	46.2	333.9	385.5	301.8	16.4	47.7	6.9	22.6	68.6	1067.4	71.0	1229.6
1988	2.7	39.1	69.3	25.1	19.2	276.1	259.9	293.8	133.0	48.3	3.6	1.8	41.8	113.6	962.8	53.7	1171.9
1989	2.0	.0	5.2	.0	91.3	225.0	304.0	302.8	205.8	54.0	6.5	27.6	2.0	96.5	1037.6	88.1	1224.2
1990	.0	39.6	31.0	29.9	95.0	286.8	552.3	273.9	228.8	121.5	12.9	.0	39.6	155.9	1341.8	134.4	1671.7
MEAN	19.0	26.7	22.1	20.6	56.1	197.7	341.5	330.3	227.8	82.1	12.9	5.9	45.8	98.7	1097.3	100.9	1342.7
PER ANN	1.4	2.0	1.6	1.5	4.2	14.7	25.4	24.6	17.0	6.1	1.0	.4	3.4	7.4	81.7	7.5	100.0
STD	21.6	28.5	24.7	18.2	36.3	90.1	89.3	82.9	75.5	64.2	22.3	11.2	36.3	49.8	158.4	67.9	188.3
COV	113.3	106.6	112.0	88.5	64.7	45.6	26.2	25.1	33.1	78.2	173.1	191.1	79.2	50.5	14.4	67.3	14.0
1991	21.9	7.2	37.6	14.1	53.9	216.2	262.0	329.3	289.9	30.3	.0	80.2	29.1	105.6	1097.4	110.5	1342.6
1992	1.0	11.3	1.1	7.2	58.3	132.5	312.0	268.4	185.9	17.5	3.1	.0	12.3	66.6	898.8	20.6	998.3
1993	.0	3.4	20.2	60.2	100.8	235.9	194.0	224.8	358.6	51.9	9.3	.0	3.4	181.2	1013.3	61.2	1259.1
1994	19.5	28.4	.0	23.2	46.2	449.3	497.6	374.2	166.6	182.8	2.9	.0	47.9	69.4	1487.7	185.7	1790.7

9.BIHAR PLAINS AREA 94235 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	.1	6.9	7.9	43.1	94.7	234.7	385.7	380.8	417.4	8.0	.8	4.2	7.0	145.7	1418.6	13.0	1584.3
1872	32.1	18.1	1.6	15.4	43.1	144.9	333.1	188.1	230.8	57.8	.0	.0	50.2	60.1	896.9	57.8	1065.0
1873	12.6	.2	32.4	17.0	10.1	107.9	371.7	254.7	80.7	.0	.0	4.2	12.8	59.5	815.0	4.2	891.5
1874	14.7	29.5	4.2	21.2	14.7	326.7	284.4	241.4	322.2	105.8	.0	.0	44.2	40.1	1174.7	105.8	1364.8
1875	21.8	3.0	.0	14.9	71.2	236.1	226.3	311.2	140.1	.0	.0	.4	24.8	86.1	913.7	.4	1025.0
1876	2.2	.0	1.6	24.1	30.9	140.9	221.1	339.7	251.9	143.7	.0	.0	2.2	56.6	953.6	143.7	1156.1
1877	49.7	38.1	5.9	24.4	128.8	44.9	300.8	147.4	168.5	81.2	.0	14.5	87.8	159.1	661.6	95.7	1004.2
1878	25.5	7.2	3.4	23.7	101.6	130.5	293.4	290.9	200.9	14.5	26.2	.0	32.7	128.7	915.7	40.7	1117.8
1879	.0	22.6	.1	.0	27.7	169.1	399.2	327.2	445.6	153.2	.1	.6	22.6	27.8	1341.1	153.9	1545.4
1880	6.1	63.1	3.9	3.0	56.1	179.0	420.5	343.3	87.7	72.5	5.1	6.1	69.2	63.0	1030.5	83.7	1246.4
1881	.9	1.1	37.9	7.9	69.5	282.2	243.4	322.9	172.5	132.8	.0	.0	2.0	115.3	1021.0	132.8	1271.1
1882	.0	17.7	4.9	5.9	70.8	195.7	156.7	338.8	152.7	131.7	23.7	.0	17.7	81.6	843.9	155.4	1098.6
1883	34.9	1.5	5.9	11.0	28.5	345.5	288.2	226.9	100.8	8.6	.3	.7	36.4	45.4	961.4	9.6	1052.8
1884	.3	1.5	.1	6.1	39.9	178.6	224.8	184.0	138.4	109.6	.0	.0	1.8	46.1	725.8	109.6	883.3
1885	11.4	1.0	9.4	3.2	44.5	109.5	365.2	364.8	369.8	12.2	.0	37.6	12.4	57.1	1209.3	49.8	1328.6
1886	5.6	2.8	15.4	4.6	62.8	173.7	443.4	414.6	367.9	166.8	4.7	6.2	8.4	82.8	1399.6	177.7	1668.5
1887	45.6	.0	18.8	16.6	225.5	237.8	218.5	248.5	191.4	89.6	.0	.0	45.6	260.9	896.2	89.6	1292.3
1888	20.1	.7	7.6	32.4	64.0	92.0	398.9	410.4	142.4	5.6	10.0	.1	20.8	104.0	1043.7	15.7	1184.2
1889	59.6	34.5	5.3	.0	29.2	324.2	367.0	237.1	298.6	15.5	5.9	.0	94.1	34.5	1226.9	21.4	1376.9
1890	2.0	.1	3.3	2.6	69.5	309.6	560.8	389.7	211.4	80.0	.0	.2	2.1	75.4	1471.5	80.2	1629.2
1891	34.9	29.1	63.1	.3	95.4	167.4	241.0	223.4	96.2	32.5	.0	.0	64.0	158.8	728.0	32.5	983.3
1892	.8	16.4	1.9	15.4	44.5	195.0	340.3	469.9	118.4	6.1	.0	.0	17.2	61.8	1123.6	6.1	1208.7
1893	22.3	50.3	8.4	37.9	76.5	209.9	464.3	220.7	284.6	130.5	3.0	.0	72.6	122.8	1179.5	133.5	1508.4
1894	.1	18.1	2.2	12.3	14.5	199.8	300.8	364.5	268.9	188.0	35.2	.5	18.2	29.0	1134.0	223.7	1404.9
1895	11.2	10.4	2.9	18.9	53.5	130.6	373.5	290.5	175.6	9.2	.8	3.5	21.6	75.3	970.2	13.5	1080.6
1896	2.0	.1	.0	.2	63.6	152.9	283.9	211.7	134.2	.3	7.7	6.0	2.1	63.8	782.7	14.0	862.6
1897	4.0	14.6	36.9	24.8	30.1	316.7	269.8	284.8	212.7	175.9	2.9	.0	18.6	91.8	1084.0	178.8	1373.2
1898	3.5	26.3	4.7	12.9	65.2	121.8	295.3	362.1	536.3	30.8	.0	.7	29.8	82.8	1315.5	31.5	1459.6
1899	35.0	7.0	3.6	49.0	71.7	261.1	591.2	429.6	230.8	27.0	.0	.0	42.0	124.3	1512.7	27.0	1706.0
1900	59.4	11.8	.5	4.3	44.4	285.9	343.3	184.2	289.2	45.7	.0	8.9	71.2	49.2	1102.6	54.6	1277.6
1901	58.0	19.0	11.4	.4	84.8	84.3	235.5	359.0	153.2	5.3	8.1	.0	77.0	96.6	832.0	13.4	1019.0
1902	1.9	.5	29.1	19.1	57.0	104.8	343.3	231.8	377.6	25.0	1.3	.0	2.4	105.2	1057.5	26.3	1191.4
1903	5.1	3.2	2.3	.9	30.8	183.2	114.1	297.1	149.0	134.7	.0	.0	8.3	34.0	743.4	134.7	920.4
1904	8.8	2.5	2.9	2.8	110.8	246.9	391.1	372.1	80.6	111.2	10.9	1.8	11.3	116.5	1090.7	123.9	1342.4
1905	12.4	26.0	37.3	22.1	83.8	42.9	367.6	508.4	311.6	7.0	.0	.7	38.4	143.2	1230.5	7.7	1419.8
1906	17.0	56.8	8.1	.4	43.5	218.6	355.8	476.6	102.4	41.1	.0	.0	73.8	52.0	1153.4	41.1	1320.3
1907	.7	52.1	38.6	26.1	29.5	250.6	276.3	222.3	203.3	2.2	.0	2.1	52.8	94.2	952.5	4.3	1103.8
1908	16.0	36.6	2.6	2.1	32.5	84.5	170.5	146.6	137.1	19.9	.0	.3	52.6	37.2	538.7	20.2	648.7
1909	4.9	9.2	.0	74.4	28.3	459.0	269.7	341.4	182.1	48.9	.0	3.4	14.1	102.7	1252.2	52.3	1421.3
1910	1.7	6.0	6.5	7.3	39.5	237.6	354.4	278.2	262.5	79.6	19.2	.0	7.7	53.3	1132.7	98.8	1292.5
1911	6.9	.0	29.8	12.8	36.7	296.6	188.5	414.2	291.2	102.8	20.2	.0	6.9	79.3	1190.5	123.0	1399.7
1912	4.8	5.4	21.9	26.8	58.0	140.8	328.7	298.0	111.2	13.1	74.9	.0	10.2	106.7	878.7	88.0	1083.6
1913	.0	44.1	20.5	.5	97.1	397.6	242.3	449.5	259.8	69.8	.0	31.0	44.1	118.1	1349.2	100.8	1612.2
1914	.0	21.6	7.0	30.7	79.9	82.5	269.4	467.5	74.9	8.6	.0	.3	21.6	117.6	894.3	8.9	1042.4
1915	7.1	51.1	19.9	3.9	77.9	141.1	344.5	389.9	192.5	43.1	30.8	.2	58.2	101.7	1068.0	74.1	1302.0
1916	.0	18.1	.0	23.7	16.8	252.6	438.9	339.1	285.7	133.4	1.1	.0	18.1	40.5	1316.3	134.5	1509.4
1917	1.9	19.3	5.8	4.9	100.7	265.7	290.1	194.0	242.9	103.6	.0	.5	21.2	111.4	992.7	104.1	1229.4
1918	.7	.0	2.6	29.8	96.6	243.0	217.6	554.8	294.9	8.1	.0	.0	.7	129.0	1310.3	8.1	1448.1
1919	39.6	7.0	4.8	13.6	41.4	211.5	476.0	194.9	221.3	61.4	.0	.3	46.6	59.8	1103.7	61.7	1271.8
1920	.0	24.6	30.5	.1	28.9	108.7	387.5	226.7	352.7	9.6	.0	.0	24.6	59.5	1075.6	9.6	1169.3
1921	25.2	.8	9.2	13.4	25.1	131.0	338.6	473.5	356.4	50.3	.0	.0	26.0	47.7	1299.5	50.3	1423.5
1922	15.5	7.7	.0	10.2	17.0	356.4	391.0	342.0	234.5	15.4	.4	7.0	23.2	27.2	1323.9	22.8	1397.1
1923	.8	36.2	.9	11.3	45.3	171.6	222.2	228.4	158.0	45.7	.3	.4	37.0	57.5	780.2	46.4	921.1
1924	2.4	12.8	1.2	7.1	11.9	115.6	561.4	270.1	323.4	51.6	67.8	.0	15.2	20.2	1270.5	119.4	1425.3
1925	11.4	.1	8.4	39.0	32.5	105.8	306.4	361.4	247.6	15.3	8.1	.0	11.5	79.9	1021.2	23.4	1136.0
1926	12.1	.1	17.3	15.3	40.8	42.8	441.1	297.4	199.4	16.5	1.4	8.2	12.2	73.4	980.7	26.1	1092.4
1927	24.0	36.6	27.7	5.3	52.3	120.8	282.9	182.6	161.2	15.8	37.9	.0	60.6	85.3	747.5	53.7	947.1
1928	45.8	17.6	.0	11.3	50.0	176.7	361.8	309.8	104.6	180.5	.0	3.6	63.4	61.3	952.9	184.1	1261.7
1929	54.2	.6	9.6	24.0	33.0	214.1	320.5	339.9	124.5	228.9	.0	53.8	54.8	66.6	999.0	282.7	1403.1
1930	10.4	6.9	9.9	5.6	27.6	171.3	300.0	209.4	273.7	14.9	27.4	10.2	17.3	43.1	954.4	52.5	1067.3
1931	.5	34.8	5.9	1.3	27.1	50.6	475.1	221.1	270.1	77.5	15.1	.9	35.3	34.3	1016.9	93.5	1180.0
1932	.0	8.8	.5	17.3	20.3	120.4	145.8	224.6	200.2	28.1	74.6	7.3	8.8	38.1	691.0	110.0	847.9
1933	21.6	14.3	.9	71.4	100.8	185.6	381.2	349.6	145.2	63.2	.0	.0	35.9	173.1	1061.6	63.2	1333.8
1934	35.7	12.9	1.4	5.9	14.9	144.5	420.8	236.5	239.1	52.7	8.8	.2	48.6	22.2	1040.9	61.7	1173.4
1935	22.4	15.5	.0	.2	13.4	111.6	179.0	444.3	344.9	.6	.0	.0	37.9	13.6	1079.8	.6	1131.9

9.BIHAR PLAINS AREA 94235 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	6.8	4.5	5.8	5.7	76.7	175.7	470.3	288.9	394.7	110.1	.0	10.1	11.3	88.2	1329.6	120.2	1549.3
1937	.0	64.8	.4	11.3	93.3	82.5	203.6	496.8	163.5	231.0	.0	.4	64.8	105.0	946.4	231.4	1347.6
1938	12.8	14.8	.0	2.1	92.1	371.0	364.7	405.4	214.5	23.6	.0	.0	27.6	94.2	1355.6	23.6	1501.0
1939	2.3	49.9	10.5	2.6	19.6	220.3	290.2	270.8	260.6	65.5	.0	.0	52.2	32.7	1041.9	65.5	1192.3
1940	.3	47.7	69.4	6.3	27.7	119.4	313.6	305.8	217.4	2.1	.0	18.6	48.0	103.4	956.2	20.7	1128.3
1941	16.3	2.0	1.1	.6	52.8	191.3	214.8	437.1	181.5	65.8	.0	.0	18.3	54.5	1024.7	65.8	1163.3
1942	37.6	45.1	17.0	14.4	27.8	135.3	243.6	352.1	393.0	5.5	.0	.7	82.7	59.2	1124.0	6.2	1272.1
1943	33.2	18.3	.0	30.4	26.8	129.6	292.4	333.3	176.5	24.0	.0	.0	51.5	57.2	931.8	24.0	1064.5
1944	25.0	24.5	39.3	39.9	11.4	184.2	202.0	292.6	202.7	55.9	.0	1.2	49.5	90.6	881.5	57.1	1078.7
1945	57.4	32.0	.5	32.6	45.0	95.9	220.5	262.7	266.9	169.8	.0	3.9	89.4	78.1	846.0	173.7	1187.2
1946	.0	22.7	6.6	44.3	95.7	176.7	392.8	255.9	257.6	150.1	14.5	.0	22.7	146.6	1083.0	164.6	1416.9
1947	10.4	8.0	7.8	8.5	46.0	76.9	376.3	270.5	203.0	63.1	.0	.0	18.4	62.3	926.7	63.1	1070.5
1948	6.4	5.7	3.6	3.1	44.3	105.7	400.6	329.4	293.2	103.4	27.0	.0	12.1	51.0	1128.9	130.4	1322.4
1949	18.6	51.5	6.8	43.5	92.5	212.1	478.4	364.9	230.5	117.3	.0	.0	70.1	142.8	1285.9	117.3	1616.1
1950	6.5	10.7	25.1	1.3	40.8	328.7	252.9	287.4	132.1	2.6	.0	2.1	17.2	67.2	1001.1	4.7	1090.2
1951	7.6	2.9	5.7	7.3	32.6	122.6	369.4	196.7	102.0	32.6	7.1	.0	10.5	45.6	790.7	39.7	886.5
1952	.0	11.3	20.7	21.2	51.2	318.8	229.6	317.4	329.8	11.5	1.9	.5	11.3	93.1	1195.6	13.9	1313.9
1953	34.1	4.6	5.8	26.9	37.1	221.5	389.9	273.0	320.8	38.4	.0	.3	38.7	69.8	1205.2	38.7	1352.4
1954	18.0	9.2	.8	.2	36.7	154.7	347.3	303.5	118.3	11.0	.0	.5	27.2	37.7	923.8	11.5	1000.2
1955	17.0	8.6	2.8	14.1	21.1	142.0	442.3	279.4	215.0	53.4	6.2	.3	25.6	38.0	1078.7	59.9	1202.2
1956	17.8	5.8	8.6	1.4	69.8	307.4	172.8	274.6	382.3	150.4	39.5	8.0	23.6	79.8	1137.1	197.9	1438.4
1957	102.8	3.1	19.5	1.0	.8	124.8	382.1	385.6	127.7	7.5	.0	2.2	105.9	21.3	1020.2	9.7	1157.1
1958	13.1	1.8	5.5	22.6	15.0	110.8	187.0	394.0	197.2	56.4	.0	.2	14.9	43.1	889.0	56.6	1003.6
1959	92.4	.6	13.9	18.6	57.7	106.6	238.3	265.3	117.0	221.9	.0	.0	93.0	90.2	727.2	221.9	1132.3
1960	.8	.0	42.7	.4	56.5	82.0	295.5	288.8	364.2	57.8	.9	.0	.8	99.6	1030.5	58.7	1189.6
1961	15.8	35.7	.0	1.6	42.1	228.8	221.4	265.5	157.8	264.3	.2	8.9	51.5	43.7	873.5	273.4	1242.1
1962	13.4	5.1	8.9	17.3	25.1	145.8	207.4	377.2	237.9	68.5	.0	4.9	18.5	51.3	968.3	73.4	1111.5
1963	4.1	2.6	15.9	14.5	88.1	153.1	317.4	295.0	265.6	122.8	15.8	.1	6.7	118.5	1031.1	138.7	1295.0
1964	1.2	5.6	1.2	28.5	68.1	126.4	487.7	150.6	232.1	96.7	4.7	.0	6.8	97.8	996.8	101.4	1202.8
1965	.0	.7	15.3	3.1	3.8	83.5	286.0	341.0	241.9	25.3	1.2	.1	.7	22.2	952.4	26.6	1001.9
1966	26.6	11.2	4.0	3.2	48.1	101.3	189.5	242.0	111.0	19.5	24.4	3.0	37.8	55.3	643.8	46.9	783.8
1967	2.7	1.3	34.9	31.2	24.6	69.5	268.3	256.3	207.8	15.2	3.7	2.9	4.0	90.7	801.9	21.8	918.4
1968	37.2	2.1	5.3	2.7	17.0	310.3	307.4	219.3	95.2	124.2	.0	7.5	39.3	25.0	932.2	131.7	1128.2
1969	6.7	11.8	13.9	15.7	66.0	213.3	313.5	363.4	264.1	23.5	55.2	.0	18.5	95.6	1154.3	78.7	1347.1
1970	16.8	19.7	12.9	7.6	83.8	208.3	332.4	249.0	365.6	18.9	.0	.0	36.5	104.3	1155.3	18.9	1315.0
1971	18.8	16.2	3.5	97.0	79.7	286.9	324.3	420.7	143.1	165.8	.9	.0	35.0	180.2	1175.0	166.7	1556.9
1972	10.1	42.7	1.9	1.5	5.5	35.5	152.6	190.8	262.8	46.6	17.1	.0	52.8	8.9	641.7	63.7	767.1
1973	35.1	9.1	5.0	5.7	69.8	199.4	225.4	224.3	313.2	205.6	7.5	.0	44.2	80.5	962.3	213.1	1300.1
1974	2.9	.6	24.5	6.5	48.1	142.1	494.8	307.2	256.4	29.4	.0	7.2	3.5	79.1	1200.5	36.6	1319.7
1975	12.5	8.2	10.5	14.2	31.6	105.5	362.4	136.6	289.7	65.7	.0	.0	20.7	56.3	894.2	65.7	1036.9
1976	1.7	11.3	.0	9.4	72.6	143.2	221.0	287.5	409.5	34.6	.1	.0	13.0	82.0	1061.2	34.7	1190.9
1977	6.3	2.0	.8	12.7	71.2	106.3	530.8	244.5	105.7	203.4	9.2	15.7	8.3	84.7	987.3	228.3	1308.6
1978	14.7	27.2	32.0	10.8	51.6	206.9	291.5	270.2	218.4	171.0	7.0	4.4	41.9	94.4	987.0	182.4	1305.7
1979	17.7	20.4	4.3	25.1	5.2	86.0	463.6	166.2	103.6	93.3	42.0	22.2	38.1	34.6	819.4	157.5	1049.6
1980	6.3	2.5	15.7	9.8	126.9	172.4	401.9	352.9	187.8	27.6	.0	2.2	8.8	152.4	1115.0	29.8	1306.0
1981	39.4	17.7	23.9	65.2	79.2	93.9	557.0	287.9	173.7	.0	6.5	10.4	57.1	168.3	1112.5	16.9	1354.8
1982	3.7	19.1	27.2	12.0	34.1	204.5	223.4	152.7	140.8	40.9	22.7	1.4	22.8	73.3	721.4	65.0	882.5
1983	12.2	4.2	13.0	43.4	71.1	111.6	340.6	235.9	207.0	75.7	.0	16.8	16.4	127.5	895.1	92.5	1131.5
1984	29.9	88.5	1.0	7.8	82.9	410.5	506.1	318.1	266.8	16.3	.0	1.7	118.4	91.7	1501.5	18.0	1729.6
1985	8.5	.9	.1	8.8	68.1	156.7	503.5	241.1	238.4	200.3	.0	5.7	9.4	77.0	1139.7	206.0	1432.1
1986	.8	9.2	.7	20.8	103.1	165.6	421.9	219.6	191.3	117.6	3.3	20.1	10.0	124.6	998.4	141.0	1274.0
1987	.3	2.5	4.4	32.6	51.6	161.7	472.8	594.9	355.1	29.7	8.9	1.9	2.8	88.6	1584.5	40.5	1716.4
1988	.9	17.0	27.9	37.4	49.9	163.9	281.1	415.3	168.5	28.6	.5	11.5	17.9	115.2	1028.8	40.6	1202.5
1989	8.2	10.5	8.3	.8	107.8	172.0	425.1	154.9	327.9	36.0	1.3	13.6	18.7	116.9	1079.9	50.9	1266.4
1990	.0	34.7	16.6	4.4	81.8	149.4	439.5	189.2	158.3	41.8	.0	.0	34.7	102.8	936.4	41.8	1115.7
MEAN	15.7	16.1	11.0	15.9	53.8	179.1	329.5	303.0	225.6	68.0	7.2	3.6	31.8	80.7	1037.1	78.8	1228.4
PER ANN	1.3	1.3	.9	1.3	4.4	14.6	26.8	24.7	18.4	5.5	.6	.3	2.6	6.6	84.4	6.4	100.0
STD	18.7	17.3	13.1	16.8	33.0	85.1	102.6	92.1	92.1	63.3	14.8	7.7	25.5	41.1	199.7	66.1	214.9
COV	119.4	107.2	119.1	105.7	61.3	47.6	31.1	30.4	40.8	93.1	206.0	211.9	80.1	50.9	19.3	83.9	17.5
1991	15.7	5.7	10.0	14.8	47.1	147.7	192.7	320.5	230.6	6.5	.0	10.8	21.4	71.9	891.5	17.3	1002.1
1992	3.9	4.0	.0	2.3	72.1	84.8	283.9	218.8	78.2	55.0	1.6	.1	7.9	74.4	665.7	56.7	804.7
1993	10.1	4.3	22.5	40.9	60.4	178.5	241.4	375.9	296.1	44.9	26.2	.0	14.4	123.8	1091.9	71.1	1301.2
1994	33.8	37.9	.6	9.2	47.2	131.5	185.8	374.5	201.1	39.0	4.7	.0	71.7	57.0	892.9	43.7	1065.3

10.EAST UTTAR PRADESH AREA 146509 SQ.KM NO OF STATION 26

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	9.8	15.0	1.8	10.2	61.2	213.5	500.9	297.2	397.1	1.3	.0	34.4	24.8	73.2	1408.7	35.7	1542.4
1872	44.6	11.7	7.2	2.4	8.5	136.0	348.7	345.8	190.7	.6	.0	.2	56.3	18.1	1021.2	.8	1096.4
1873	4.6	2.7	19.0	.6	8.6	42.4	369.5	208.0	141.1	.4	.0	1.1	7.3	28.2	761.0	1.5	798.0
1874	6.0	14.6	4.3	.0	6.4	291.9	328.7	304.0	232.4	28.1	1.7	.1	20.6	10.7	1157.0	29.9	1218.2
1875	11.7	14.9	.0	.0	22.4	121.1	277.4	365.6	204.5	2.7	.0	1.6	26.6	22.4	968.6	4.3	1021.9
1876	2.4	.0	4.6	8.6	3.6	27.8	279.2	187.6	238.7	73.1	.0	.0	2.4	16.8	733.3	73.1	825.6
1877	57.7	32.8	14.1	12.5	13.7	55.7	108.4	93.8	51.5	98.5	.3	30.7	90.5	40.3	309.4	129.5	569.7
1878	53.8	10.3	2.2	17.4	46.5	61.1	208.8	277.9	192.2	2.6	2.9	.0	64.1	66.1	740.0	5.5	875.7
1879	.0	4.7	.0	.0	7.4	168.3	400.6	322.0	237.3	115.1	.0	3.8	4.7	7.4	1128.2	118.9	1259.2
1880	.1	24.3	.0	.0	40.1	40.8	348.4	104.5	80.0	11.9	10.4	3.0	24.4	40.1	573.7	25.3	663.5
1881	1.1	2.6	27.1	.7	33.4	176.5	209.9	321.4	70.6	37.7	.0	.0	3.7	61.2	778.4	37.7	881.0
1882	.5	6.4	.0	1.0	26.2	205.9	170.2	312.9	60.2	54.5	7.0	.0	6.9	27.2	749.2	61.5	844.8
1883	79.7	1.5	8.1	1.5	16.7	112.2	330.8	86.2	125.0	5.6	.0	.1	81.2	26.3	654.2	5.7	767.4
1884	.2	.8	.8	.2	13.2	106.3	220.1	387.8	247.9	89.5	.0	.1	1.0	14.2	962.1	89.6	1066.9
1885	20.7	.1	2.1	4.7	17.7	166.6	338.6	376.4	129.3	4.0	.1	71.5	20.8	24.5	1010.9	75.6	1131.8
1886	4.5	.3	28.2	.0	30.8	200.0	322.0	264.4	143.8	106.6	.3	21.9	4.8	59.0	930.2	128.8	1122.8
1887	24.7	.0	3.7	11.7	8.1	94.4	270.5	410.5	140.0	81.7	.2	.0	24.7	23.5	915.4	81.9	1045.5
1888	28.1	3.9	7.1	4.5	12.1	69.7	457.4	401.0	217.4	.1	3.6	.0	32.0	23.7	1145.5	3.7	1204.9
1889	35.6	28.9	2.1	.2	14.0	184.4	395.7	291.0	243.1	5.5	4.6	.0	64.5	16.3	1114.2	10.1	1205.1
1890	.9	2.0	5.8	1.2	13.6	321.9	406.9	256.1	235.2	13.3	.0	2.1	2.9	20.6	1220.1	15.4	1259.0
1891	24.2	3.6	42.8	2.1	34.2	69.7	104.8	454.9	269.8	61.6	.0	.0	27.8	79.1	899.2	61.6	1067.7
1892	6.5	21.2	.0	.0	6.0	106.8	319.3	458.5	81.2	1.3	1.1	.9	27.7	6.0	965.8	3.3	1002.8
1893	33.7	28.1	18.3	7.7	58.9	200.8	311.0	211.0	269.0	112.0	9.6	.3	61.8	84.9	991.8	121.9	1260.4
1894	10.7	46.5	2.7	.6	1.6	273.7	306.2	446.0	192.0	355.2	67.0	11.5	57.2	4.9	1217.9	433.7	1713.7
1895	29.9	14.6	7.5	9.2	18.2	195.3	255.2	259.2	151.0	1.0	.0	4.5	44.5	34.9	860.7	5.5	945.6
1896	1.1	1.2	.0	.0	3.7	125.5	175.9	250.4	13.8	.0	9.2	13.6	2.3	3.7	565.6	22.8	594.4
1897	23.6	4.8	9.7	1.1	5.7	125.5	271.0	398.1	149.6	86.0	.0	.0	28.4	16.5	944.2	86.0	1075.1
1898	1.1	54.2	.6	5.5	13.8	151.9	350.5	479.4	223.6	4.9	2.8	4.3	55.3	19.9	1205.4	12.0	1292.6
1899	20.7	3.6	.0	18.0	35.1	247.8	496.2	255.0	55.5	6.6	.0	.0	24.3	53.1	1054.5	6.6	1138.5
1900	67.7	4.9	.4	2.5	16.1	46.2	278.7	218.2	256.2	43.7	.0	32.2	72.6	19.0	799.3	75.9	966.8
1901	63.4	33.4	6.7	1.0	14.1	20.0	204.6	282.1	220.0	4.7	.1	1.8	96.8	21.8	726.7	6.6	851.9
1902	5.9	1.7	1.4	.6	21.2	29.1	395.9	150.1	259.7	14.8	1.0	.0	7.6	23.2	834.8	15.8	881.4
1903	8.5	.1	.4	.7	14.5	67.4	126.6	427.3	246.1	335.8	.0	.0	8.6	15.6	867.4	335.8	1227.4
1904	6.5	2.3	9.5	.6	27.2	137.6	354.2	306.6	99.7	49.3	18.8	28.6	8.8	37.3	898.1	96.7	1040.9
1905	16.3	25.4	21.1	4.0	16.2	15.6	299.5	345.2	156.0	3.7	.0	2.2	41.7	41.3	816.3	5.9	905.2
1906	4.1	60.1	6.3	.1	13.4	149.5	347.0	289.5	127.1	7.8	.0	.0	64.2	19.8	913.1	7.8	1004.9
1907	1.5	77.4	22.8	16.8	10.9	33.2	157.8	276.0	22.0	.0	.0	.0	78.9	50.5	489.0	.0	618.4
1908	18.2	14.6	6.3	.3	3.8	60.4	224.3	287.8	82.5	13.0	.0	.6	32.8	10.4	655.0	13.6	711.8
1909	8.2	5.2	.0	61.1	3.3	230.7	400.3	201.0	158.0	6.4	.0	21.5	13.4	64.4	990.0	27.9	1095.7
1910	4.2	.2	.6	1.3	28.8	153.0	219.2	376.4	198.5	99.0	29.3	.1	4.4	30.7	947.1	128.4	1110.6
1911	41.9	.1	29.8	1.8	2.8	99.2	62.3	337.4	374.1	106.8	40.4	.0	42.0	34.4	873.0	147.2	1096.6
1912	14.9	7.6	7.9	3.6	16.7	47.4	327.0	302.2	120.5	1.3	30.1	.3	22.5	28.2	797.1	31.7	879.5
1913	.1	34.6	31.5	.3	65.1	159.6	205.7	199.1	93.3	12.0	.0	13.7	34.7	96.9	657.7	25.7	815.0
1914	1.6	15.6	21.2	7.3	52.4	41.6	436.0	318.4	88.9	3.2	.0	.1	17.2	80.9	884.9	3.3	986.3
1915	12.9	41.4	25.2	6.1	21.1	101.5	302.7	382.5	431.9	89.4	.6	2.2	54.3	52.4	1218.6	92.2	1417.5
1916	.0	20.1	.0	6.4	5.2	240.8	320.5	353.0	191.9	52.6	7.6	.0	20.1	11.6	1106.2	60.2	1198.1
1917	7.5	31.3	7.1	3.4	34.3	150.6	348.7	210.3	283.7	63.9	.0	4.6	38.8	44.8	993.3	68.5	1145.4
1918	.4	.0	5.4	2.2	21.2	139.4	94.5	222.2	120.4	.0	1.4	1.2	.4	28.8	576.5	2.6	608.3
1919	40.8	9.4	2.0	4.6	9.6	65.9	349.5	224.5	228.5	61.6	.1	4.7	50.2	16.2	868.4	66.4	1001.2
1920	.0	11.9	9.1	1.1	18.2	87.1	468.1	139.5	89.2	2.9	.0	.0	11.9	28.4	783.9	2.9	827.1
1921	45.9	.6	3.3	5.1	.0	161.5	177.0	437.6	225.5	11.9	.0	1.3	46.5	8.4	1001.6	13.2	1069.7
1922	32.0	5.1	.0	4.2	2.9	128.4	466.3	495.2	307.0	2.3	.0	17.1	37.1	7.1	1396.9	19.4	1460.5
1923	1.5	35.8	.0	.1	6.0	39.0	282.8	362.8	272.0	89.7	1.2	16.0	37.3	6.1	956.6	106.9	1106.9
1924	9.0	5.9	.9	.0	2.0	33.6	494.8	254.9	271.4	26.2	12.5	10.6	14.9	2.9	1054.7	49.3	1121.8
1925	4.2	.0	.2	15.6	15.7	130.7	486.7	208.9	236.6	5.1	13.2	.0	4.2	31.5	1062.9	18.3	1116.9
1926	8.2	1.5	50.5	17.9	16.4	19.6	373.1	273.7	243.5	38.0	.1	1.3	9.7	84.8	909.9	39.4	1043.8
1927	6.5	23.5	16.2	2.0	28.3	69.2	281.4	323.2	154.3	77.5	81.3	5.3	30.0	46.5	828.1	164.1	1068.7
1928	27.2	95.2	.3	14.0	12.5	107.6	277.6	106.3	53.7	68.7	.1	15.2	122.4	26.8	545.2	84.0	778.4
1929	46.5	1.2	13.9	1.3	5.4	169.8	300.1	343.1	45.6	50.2	.0	48.3	47.7	20.6	858.6	98.5	1025.4
1930	11.6	17.9	4.0	2.6	4.7	48.4	389.4	266.1	316.4	41.4	5.0	13.1	29.5	11.3	1020.3	59.5	1120.6
1931	.5	28.1	1.8	.2	4.7	38.8	298.3	216.7	382.4	110.7	.0	.0	28.6	6.7	936.2	110.7	1082.2
1932	.0	5.4	3.3	.2	6.4	84.2	183.0	314.0	142.1	21.3	28.8	2.4	5.4	9.9	723.3	52.5	791.1
1933	10.3	18.4	2.5	39.6	47.8	133.1	203.8	251.5	161.5	97.7	.0	.0	28.7	89.9	749.9	97.7	966.2
1934	39.6	.9	15.9	1.7	.7	160.9	356.1	250.6	235.6	8.0	1.2	3.7	40.5	18.3	1003.2	12.9	1074.9
1935	18.1	20.6	.0	13.1	.2	70.7	240.4	316.1	192.8	.0	.0	14.4	38.7	13.3	820.0	14.4	886.4

10.EAST UTTAR PRADESH AREA 146509 SQ.KM NO OF STATION 26

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	6.6	29.6	4.8	4.5	19.5	210.4	584.5	350.4	266.6	26.1	5.5	21.9	36.2	28.8	1411.9	53.5	1530.4
1937	.0	60.3	1.4	6.1	19.5	85.1	278.1	354.6	88.6	66.5	.2	5.6	60.3	27.0	806.4	72.3	966.0
1938	26.1	11.5	.0	2.3	37.8	299.3	434.6	414.4	233.2	38.7	.1	.0	37.6	40.1	1381.5	38.8	1498.0
1939	13.5	17.9	1.9	1.1	1.8	167.3	277.6	233.7	232.3	17.6	.0	.0	31.4	4.8	910.9	17.6	964.7
1940	9.3	17.2	34.5	4.3	10.7	68.0	251.5	344.1	116.9	3.7	.0	23.6	26.5	49.5	780.5	27.3	883.8
1941	21.0	4.6	.0	.9	18.8	117.7	130.4	267.5	170.0	3.8	.0	.0	25.6	19.7	685.6	3.8	734.7
1942	60.6	52.2	4.8	6.3	3.0	91.5	292.8	325.3	193.7	.0	.0	7.2	112.8	14.1	903.3	7.2	1037.4
1943	20.3	8.3	.0	18.0	14.3	69.2	241.9	486.9	275.5	15.9	.0	.0	28.6	32.3	1073.5	15.9	1150.3
1944	19.8	43.1	62.2	12.8	5.9	111.2	298.8	315.4	169.3	40.7	.0	2.8	62.9	80.9	894.7	43.5	1082.0
1945	44.6	.6	2.1	17.9	14.0	74.2	254.0	208.0	273.0	108.1	.0	5.5	45.2	34.0	809.2	113.6	1002.0
1946	.0	27.8	.3	31.0	32.5	97.3	413.4	224.4	145.0	93.7	10.1	1.5	27.8	63.8	880.1	105.3	1077.0
1947	14.6	8.2	15.7	1.2	15.0	91.1	420.1	237.5	197.3	19.3	.3	2.5	22.8	31.9	946.0	22.1	1022.8
1948	31.2	9.0	.2	.4	16.1	108.0	429.1	385.9	276.6	58.7	13.3	.0	40.2	16.7	1199.6	72.0	1328.5
1949	3.4	40.3	1.3	2.4	29.9	47.3	308.0	377.2	277.4	94.4	.2	.0	43.7	33.6	1009.9	94.6	1181.8
1950	31.8	8.6	22.9	.1	6.7	146.4	250.6	347.0	97.1	2.2	.1	28.6	40.4	29.7	841.1	30.9	942.1
1951	29.2	12.1	21.1	5.2	3.7	128.4	131.1	252.9	167.5	8.3	1.9	.0	41.3	30.0	679.9	10.2	761.4
1952	3.0	11.8	35.0	1.9	7.5	250.6	155.3	319.7	105.9	5.0	.0	2.7	14.8	44.4	831.5	7.7	898.4
1953	33.3	7.4	.9	2.6	8.4	144.3	502.5	345.1	259.4	2.4	.0	1.9	40.7	11.9	1251.3	4.3	1308.2
1954	43.5	36.2	1.0	.0	3.8	68.6	301.7	290.5	192.0	30.4	.0	.1	79.7	4.8	852.8	30.5	967.8
1955	32.0	11.0	.7	2.4	3.5	199.0	531.6	326.9	219.7	104.1	.0	.0	43.0	6.6	1277.2	104.1	1430.9
1956	22.5	5.9	13.8	.1	39.3	137.5	222.7	273.8	304.0	183.9	39.8	7.6	28.4	53.2	938.0	231.3	1250.9
1957	44.2	.1	15.8	.5	.2	54.4	357.2	288.6	156.0	3.0	.0	5.3	44.3	16.5	856.2	8.3	925.3
1958	15.3	2.0	8.5	2.6	.2	51.5	222.3	380.3	195.5	105.9	.0	2.1	17.3	11.3	849.6	108.0	986.2
1959	56.1	5.2	4.6	4.0	35.9	41.4	212.2	300.1	72.3	116.0	1.0	.0	61.3	44.5	626.0	117.0	848.8
1960	8.7	.0	33.7	2.3	5.7	61.2	378.9	344.0	165.3	143.0	.0	.0	8.7	41.7	949.4	143.0	1142.8
1961	22.4	28.0	.0	1.3	9.2	83.5	286.9	424.7	144.1	230.8	.3	10.7	50.4	10.5	939.2	241.8	1241.9
1962	32.8	15.4	9.3	4.8	3.0	59.8	229.9	401.9	259.3	10.5	.0	4.4	48.2	17.1	950.9	14.9	1031.1
1963	14.2	2.1	10.5	7.4	20.4	84.9	317.6	337.0	147.8	18.9	6.8	1.3	16.3	38.3	887.3	27.0	968.9
1964	3.6	4.9	.2	2.3	40.8	66.3	387.9	166.3	295.3	20.3	.0	10.5	8.5	43.3	915.8	30.8	998.4
1965	1.5	.6	9.1	17.3	2.5	15.8	187.3	194.4	168.7	46.2	.0	.5	2.1	28.9	566.2	46.7	643.9
1966	10.6	8.5	.0	.0	8.0	201.0	154.3	261.8	22.0	13.7	21.2	12.7	19.1	8.0	639.1	47.6	713.8
1967	1.8	.0	31.6	6.9	8.4	53.0	265.6	467.4	147.7	5.5	.4	38.2	1.8	46.9	933.7	44.1	1026.5
1968	27.9	6.9	2.7	4.3	.4	79.1	318.3	238.8	110.9	28.6	.0	2.7	34.8	7.4	747.1	31.3	820.6
1969	2.6	3.1	3.9	5.4	41.0	78.2	366.7	309.0	202.1	7.9	13.5	.0	5.7	50.3	956.0	21.4	1033.4
1970	33.9	42.0	8.2	10.0	33.8	196.4	223.5	241.7	340.8	49.8	.2	.0	75.9	52.0	1002.4	50.0	1180.3
1971	16.1	11.7	9.9	50.0	46.5	205.7	327.1	389.9	260.3	90.4	1.0	.0	27.8	106.4	1183.0	91.4	1408.6
1972	6.8	29.2	1.4	.9	.3	37.9	189.2	236.7	194.9	36.6	21.7	.0	36.0	2.6	658.7	58.3	755.6
1973	16.9	15.4	.3	.0	23.1	112.6	292.8	354.9	184.4	140.0	.1	.4	32.3	23.4	944.7	140.5	1140.9
1974	.3	4.7	3.3	.1	6.4	50.3	353.4	258.6	108.3	21.8	1.6	10.7	5.0	9.8	770.6	34.1	819.5
1975	7.8	5.2	11.3	.0	4.0	268.1	392.1	292.6	161.1	38.1	.0	.0	13.0	15.3	1113.9	38.1	1180.3
1976	7.4	5.4	.6	5.0	22.5	67.7	242.0	321.9	258.6	4.2	.5	.2	12.8	28.1	890.2	4.9	936.0
1977	12.9	4.9	.0	12.3	24.3	57.3	332.3	191.3	117.9	67.1	1.1	13.6	17.8	36.6	698.8	81.8	835.0
1978	30.7	29.1	27.4	3.9	2.8	165.1	309.9	264.9	229.6	10.4	1.3	4.7	59.8	34.1	969.5	16.4	1079.8
1979	27.5	28.0	1.1	7.7	10.0	85.6	270.5	78.0	31.4	18.0	33.9	11.3	55.5	18.8	465.5	63.2	603.0
1980	6.9	3.1	8.3	.0	12.0	169.2	571.9	414.7	277.6	20.7	.1	14.9	10.0	20.3	1433.4	35.7	1499.4
1981	18.9	3.3	9.4	5.8	34.8	77.5	461.5	245.0	301.2	1.3	12.3	3.4	22.2	50.0	1085.2	17.0	1174.4
1982	30.9	10.6	39.9	11.6	35.0	101.7	183.4	348.9	355.3	13.0	24.2	6.2	41.5	86.5	989.3	43.4	1160.7
1983	21.1	.8	.3	22.2	36.6	107.7	257.2	243.0	350.0	98.7	.0	16.7	21.9	59.1	957.9	115.4	1154.3
1984	24.5	21.3	1.7	6.9	4.0	235.9	321.5	224.4	249.7	13.8	.0	4.7	45.8	12.6	1031.5	18.5	1108.4
1985	22.2	.0	.3	4.9	15.4	73.7	317.7	230.9	352.3	183.3	.0	8.9	22.2	20.6	974.6	192.2	1209.6
1986	10.6	33.1	2.1	5.0	31.5	121.3	275.2	261.6	109.9	25.2	1.7	32.6	43.7	38.6	768.0	59.5	909.8
1987	14.8	9.3	2.7	13.7	25.4	10.9	190.7	172.9	232.6	80.6	.7	4.6	24.1	41.8	607.1	85.9	758.9
1988	5.8	4.9	14.6	10.9	12.1	138.4	327.0	345.4	92.3	44.3	.0	14.7	10.7	37.6	903.1	59.0	1010.4
1989	18.1	6.9	11.7	.0	3.8	142.1	383.0	184.0	230.4	10.9	3.2	16.0	25.0	15.5	939.5	30.1	1010.1
1990	.4	39.6	9.4	5.1	45.1	120.7	481.8	247.0	223.4	7.3	.7	9.1	40.0	59.6	1072.9	17.1	1189.6
MEAN	18.1	15.2	8.9	6.0	17.2	116.3	306.0	295.3	192.4	46.9	5.1	7.0	33.2	32.1	909.9	59.0	1034.3
PER ANN	1.7	1.5	.9	.6	1.7	11.2	29.6	28.6	18.6	4.5	.5	.7	3.2	3.1	88.0	5.7	100.0
STD	17.2	17.3	11.8	9.2	14.8	68.9	105.0	88.2	87.7	60.3	12.4	11.3	24.0	22.8	205.1	65.2	217.2
COV	95.3	113.8	133.4	153.7	86.0	59.3	34.3	29.9	45.6	128.5	243.0	160.9	72.2	71.1	22.5	110.5	21.0
1991	11.1	9.5	9.9	4.0	7.2	95.3	128.3	321.2	163.5	.0	4.1	13.0	20.6	21.1	708.3	17.1	767.1
1992	10.1	7.6	.0	.0	18.3	49.8	267.1	238.0	162.8	87.9	6.3	.0	17.7	18.3	717.7	94.2	847.9
1993	2.6	6.5	24.5	14.2	39.6	222.7	140.2	205.9	230.4	1.2	.1	.0	9.1	78.3	799.2	1.3	887.9
1994	23.6	32.3	.0	10.7	8.3	148.6	282.8	245.4	214.0	5.5	.0	.0	55.9	19.0	890.8	5.5	971.2

11.WEST UTTAR PRADESH PLAINS AREA 96782 SQ.KM NO OF STATION 19

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	12.7	31.3	.0	8.4	51.0	210.6	359.5	282.5	98.0	.0	.0	30.8	44.0	59.4	950.6	30.8	1084.8
1872	50.1	11.7	6.0	2.7	11.5	105.2	315.8	294.8	107.0	.0	.0	4.0	61.8	20.2	822.8	4.0	908.8
1873	11.5	2.3	13.3	.0	24.0	15.0	387.9	203.5	265.7	3.5	1.1	2.0	13.8	37.3	872.1	6.6	929.8
1874	13.6	9.9	14.3	.2	5.0	166.1	394.0	290.9	218.4	.0	.0	.1	23.5	19.5	1069.4	.1	1112.5
1875	4.1	46.5	.0	.0	17.7	23.2	308.9	247.9	227.0	3.3	.0	4.7	50.6	17.7	807.0	8.0	883.3
1876	.7	.1	7.5	8.8	13.1	30.4	340.4	140.0	148.4	25.3	.0	.0	.8	29.4	659.2	25.3	714.7
1877	48.0	40.0	19.4	7.8	15.9	34.1	69.5	34.2	26.8	114.9	3.1	80.8	88.0	43.1	164.6	198.8	494.5
1878	34.6	12.5	8.1	28.6	27.2	33.4	221.9	272.5	168.1	.0	.0	4.5	47.1	63.9	695.9	4.5	811.4
1879	5.2	9.8	7.6	.6	.5	122.8	431.1	434.0	137.9	30.0	.0	11.2	15.0	8.7	1125.8	41.2	1190.7
1880	3.6	27.6	.0	2.0	14.2	85.0	264.8	39.6	220.5	1.5	12.8	11.7	31.2	16.2	609.9	26.0	683.3
1881	1.0	11.0	70.4	1.1	12.2	98.3	315.1	395.5	15.8	2.1	.0	.0	12.0	83.7	824.7	2.1	922.5
1882	12.1	16.4	.4	3.1	26.4	147.1	414.0	211.4	69.0	.8	.0	.0	28.5	29.9	841.5	.8	900.7
1883	68.0	.2	20.6	.9	27.4	74.6	209.6	72.5	108.1	1.1	2.4	.2	68.2	48.9	464.8	3.7	585.6
1884	1.5	2.0	2.2	.2	4.2	90.5	170.8	367.3	333.5	91.0	.5	1.4	3.5	6.6	962.1	92.9	1065.1
1885	39.3	1.9	3.5	3.2	25.1	186.7	327.5	429.9	23.6	3.6	.0	50.4	41.2	31.8	967.7	54.0	1094.7
1886	21.0	.4	34.8	.0	36.8	151.3	273.6	303.2	124.4	28.0	.0	4.8	21.4	71.6	852.5	32.8	978.3
1887	37.6	.0	1.7	2.6	.4	76.7	319.9	333.6	195.6	1.8	1.0	2.5	37.6	4.7	925.8	5.3	973.4
1888	26.7	17.3	8.6	2.9	9.3	31.4	426.4	248.5	274.3	4.4	6.9	.0	44.0	20.8	980.6	11.3	1056.7
1889	26.9	55.6	1.5	2.3	9.3	94.5	307.7	332.3	36.8	.9	.4	.0	82.5	13.1	771.3	1.3	868.2
1890	5.5	.5	8.2	6.5	10.0	186.6	421.2	191.9	136.2	.9	.0	9.2	6.0	24.7	935.9	10.1	976.7
1891	25.6	1.7	46.2	1.6	18.8	29.4	114.7	480.3	334.4	23.0	2.2	.0	27.3	66.6	958.8	25.2	1077.9
1892	12.3	20.4	.0	.0	10.6	62.0	276.0	397.2	111.7	1.1	.0	11.7	32.7	10.6	846.9	12.8	903.0
1893	44.7	53.6	17.2	5.3	31.7	143.3	330.8	155.2	207.1	65.5	8.2	.6	98.3	54.2	836.4	74.3	1063.2
1894	51.0	15.1	19.3	.5	3.4	158.4	226.5	395.8	210.4	72.7	29.6	51.0	66.1	23.2	991.1	153.3	1233.7
1895	60.1	13.5	5.7	13.3	6.3	251.1	285.0	287.4	66.2	.1	.2	4.9	73.6	25.3	889.7	5.2	993.8
1896	3.1	9.6	.2	.4	7.7	125.8	215.3	199.3	8.7	.2	12.3	14.0	12.7	8.3	549.1	26.5	596.6
1897	15.3	1.9	4.0	1.0	5.0	80.0	398.1	309.3	137.1	1.3	1.7	.1	17.2	10.0	924.5	3.1	954.8
1898	.1	98.0	.0	4.2	9.8	67.0	226.0	284.4	131.8	3.0	2.4	15.7	98.1	14.0	709.2	21.1	842.4
1899	3.8	6.7	.8	9.2	16.0	256.4	274.2	65.1	19.1	3.0	.0	.0	10.5	26.0	614.8	3.0	654.3
1900	35.2	6.5	1.5	19.2	15.9	36.3	238.0	248.7	242.5	1.1	.0	40.6	41.7	36.6	765.5	41.7	885.5
1901	55.9	29.8	10.5	1.4	5.9	24.4	204.7	383.8	64.5	7.0	.0	8.6	85.7	17.8	677.4	15.6	796.5
1902	4.5	2.7	.4	6.0	8.3	65.6	327.9	203.3	129.8	10.0	.0	.0	7.2	14.7	726.6	10.0	758.5
1903	15.7	.8	2.5	.1	9.6	33.9	142.8	269.7	154.1	180.7	.0	.6	16.5	12.2	600.5	181.3	810.5
1904	8.2	.6	32.5	.5	32.7	73.0	338.9	306.6	92.5	1.2	16.0	29.6	8.8	65.7	811.0	46.8	932.3
1905	33.7	28.5	16.9	3.1	7.4	23.7	142.3	89.8	90.0	.0	.0	3.5	62.2	27.4	345.8	3.5	438.9
1906	4.2	61.0	26.0	.3	6.0	205.4	228.0	174.9	238.2	.0	.0	7.5	65.2	32.3	846.5	7.5	951.5
1907	16.1	66.3	17.9	28.9	15.0	15.1	197.5	230.1	.4	.0	.0	.0	82.4	61.8	443.1	.0	587.3
1908	24.8	15.0	1.7	2.3	14.3	60.0	347.7	400.9	31.8	.6	1.2	1.5	39.8	18.3	840.4	3.3	901.8
1909	18.5	7.7	.0	64.3	3.5	174.0	371.5	143.7	108.6	1.8	.0	32.5	26.2	67.8	797.8	34.3	926.1
1910	13.1	2.7	.0	1.3	18.6	100.4	121.0	285.6	222.9	151.3	2.8	1.0	15.8	19.9	729.9	155.1	920.7
1911	70.3	.3	36.3	.4	.4	45.2	53.5	123.4	329.7	18.4	42.9	.8	70.6	37.1	551.8	62.1	721.6
1912	31.0	6.4	9.3	4.4	6.6	32.7	239.0	211.4	262.2	.0	7.8	1.2	37.4	20.3	745.3	9.0	812.0
1913	.4	39.6	26.8	1.9	63.7	134.1	149.1	100.5	23.0	1.6	1.0	7.6	40.0	92.4	406.7	10.2	549.3
1914	.0	11.1	24.0	19.9	30.7	43.5	310.2	204.1	226.2	12.4	7.9	.0	11.1	74.6	784.0	20.3	890.0
1915	25.2	67.0	55.3	8.8	12.9	66.9	206.4	221.3	136.3	13.1	.0	2.8	92.2	77.0	630.9	15.9	816.0
1916	.0	19.4	.1	2.1	8.7	122.4	343.3	311.7	248.7	44.4	3.8	.0	19.4	10.9	1026.1	48.2	1104.6
1917	10.6	28.8	11.3	16.8	48.6	101.3	290.6	229.3	311.2	83.9	.0	3.7	39.4	76.7	932.4	87.6	1136.1
1918	8.7	.4	11.5	11.0	5.2	90.1	68.8	157.7	20.2	.4	4.6	.7	9.1	27.7	336.8	5.7	379.3
1919	69.6	4.4	3.7	6.6	12.3	20.2	290.5	330.3	118.0	6.1	4.4	16.8	74.0	22.6	759.0	27.3	882.9
1920	5.8	10.5	11.9	.0	19.5	136.3	365.1	81.8	28.1	1.5	.0	.0	16.3	31.4	611.3	1.5	660.5
1921	50.3	1.2	3.2	4.4	.0	146.6	178.0	368.9	231.8	13.4	.0	.8	51.5	7.6	925.3	14.2	998.6
1922	40.1	3.9	.1	1.1	1.4	73.0	341.1	331.1	199.7	5.8	.0	23.1	44.0	2.6	944.9	28.9	1020.4
1923	4.7	41.7	.1	.0	9.6	7.0	187.0	307.2	218.4	47.0	.9	40.2	46.4	9.7	719.6	88.1	863.8
1924	31.1	20.3	3.1	.0	11.5	18.5	297.2	247.1	368.4	48.3	.8	26.0	51.4	14.6	931.2	75.1	1072.3
1925	3.7	.0	.0	5.8	14.3	215.0	400.6	221.7	60.5	6.8	19.1	.0	3.7	20.1	897.8	25.9	947.5
1926	17.4	11.3	61.4	15.6	24.6	18.2	278.3	308.7	120.7	8.4	2.4	.2	28.7	101.6	725.9	11.0	867.2
1927	.0	27.5	27.0	3.0	21.3	73.8	280.1	345.9	63.0	123.2	32.5	11.1	27.5	51.3	762.8	166.8	1008.4
1928	25.0	92.5	2.2	8.0	7.9	43.9	274.8	72.0	46.5	41.7	11.3	17.0	117.5	18.1	437.2	70.0	642.8
1929	27.3	.6	2.1	6.3	2.3	80.2	189.9	226.3	37.0	22.3	.9	35.1	27.9	10.7	533.4	58.3	630.3
1930	28.6	20.8	.7	1.9	5.5	58.5	330.7	211.8	41.6	34.1	.3	3.6	49.4	8.1	642.6	38.0	738.1
1931	.5	28.2	7.3	.4	4.9	15.8	215.1	225.3	363.3	66.9	.0	.0	28.7	12.6	819.5	66.9	927.7
1932	.0	2.1	16.4	5.5	3.4	31.5	176.5	205.5	326.6	.0	7.8	11.8	2.1	25.3	740.1	19.6	787.1
1933	6.9	12.5	7.7	14.9	36.3	254.6	217.0	228.9	195.5	94.4	1.2	1.2	19.4	58.9	896.0	96.8	1071.1
1934	28.6	1.4	25.7	1.2	.8	108.7	201.2	317.5	128.6	.0	.0	12.2	30.0	27.7	756.0	12.2	825.9
1935	29.9	22.6	3.1	16.7	.1	9.9	306.6	195.6	179.3	2.1	3.9	28.2	52.5	19.9	691.4	34.2	798.0

11.WEST UTTAR PRADESH PLAINS AREA 96782 SQ.KM NO OF STATION 19

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	4.7	20.0	11.8	1.6	16.6	300.7	344.3	293.2	192.9	2.3	7.8	24.7	24.7	30.0	1131.1	34.8	1220.6
1937	.3	70.3	1.9	10.3	13.6	68.8	214.0	175.9	130.1	2.6	.6	12.8	70.6	25.8	588.8	16.0	701.2
1938	34.7	6.5	.0	.7	11.2	156.5	297.0	167.4	29.2	12.1	.0	.0	41.2	11.9	650.1	12.1	715.3
1939	8.4	26.9	8.3	.5	2.5	124.2	238.8	98.5	231.2	3.8	.0	.0	35.3	11.3	692.7	3.8	743.1
1940	24.1	38.5	22.2	5.7	8.4	40.8	247.4	385.0	57.1	.9	.4	22.4	62.6	36.3	730.3	23.7	852.9
1941	34.7	6.6	2.0	.0	19.3	104.1	44.7	235.7	68.2	9.3	.0	2.8	41.3	21.3	452.7	12.1	527.4
1942	35.0	52.6	2.9	4.5	7.4	139.8	359.9	322.5	218.9	.0	.0	13.2	87.6	14.8	1041.1	13.2	1156.7
1943	31.6	.6	3.7	16.1	15.3	86.5	197.2	402.7	157.5	.7	.0	.0	32.2	35.1	843.9	.7	911.9
1944	37.8	46.4	46.4	25.1	.4	76.5	241.0	153.3	94.7	18.1	.2	1.9	84.2	71.9	565.5	20.2	741.8
1945	39.7	.0	.5	4.4	4.4	26.5	290.1	249.2	263.9	50.5	.0	.0	39.7	9.3	829.7	50.5	929.2
1946	.0	17.0	.3	14.5	22.8	87.9	389.5	262.1	39.1	27.9	8.2	5.4	17.0	37.6	778.6	41.5	874.7
1947	20.7	12.9	15.3	.2	3.2	46.2	240.5	195.6	274.8	11.8	.0	6.1	33.6	18.7	757.1	17.9	827.3
1948	29.4	21.3	12.8	.6	4.9	5.4	331.0	427.9	177.8	22.3	4.8	1.4	50.7	18.3	942.1	28.5	1039.6
1949	.8	46.7	4.0	3.5	10.5	14.9	318.9	295.4	210.2	20.9	.0	.2	47.5	18.0	839.4	21.1	926.0
1950	20.7	14.6	22.8	.5	12.4	56.0	268.9	366.1	136.4	.0	.0	13.3	35.3	35.7	827.4	13.3	911.7
1951	18.3	7.0	39.0	7.0	18.5	39.6	127.4	234.9	217.9	6.6	19.5	.0	25.3	64.5	619.8	26.1	735.7
1952	7.9	19.6	20.6	2.9	6.8	178.6	166.9	362.2	30.9	5.3	.0	6.8	27.5	30.3	738.6	12.1	808.5
1953	41.2	.7	.0	5.7	8.2	82.1	388.9	198.2	83.4	1.0	.0	1.6	41.9	13.9	752.6	2.6	811.0
1954	36.5	65.1	10.3	.1	.7	56.2	247.5	200.9	185.9	100.2	.0	.0	101.6	11.1	690.5	100.2	903.4
1955	44.4	3.8	3.1	4.0	4.4	104.0	191.1	286.9	212.0	194.0	.0	.0	48.2	11.5	794.0	194.0	1047.7
1956	19.2	4.7	23.4	.0	10.0	77.4	365.7	283.2	79.5	206.6	5.8	2.6	23.9	33.4	805.8	215.0	1078.1
1957	65.9	.5	28.3	5.8	2.9	44.3	265.0	228.4	292.1	17.2	3.0	14.9	66.4	37.0	829.8	35.1	968.3
1958	5.0	2.7	2.2	4.1	1.1	38.5	350.1	366.7	234.3	132.7	.2	14.6	7.7	7.4	989.6	147.5	1152.2
1959	48.5	4.1	5.8	1.9	35.1	22.5	200.5	289.3	108.6	54.4	15.1	.0	52.6	42.8	620.9	69.5	785.8
1960	11.5	.0	39.3	1.8	7.7	90.1	354.5	363.7	107.5	216.0	.0	3.1	11.5	48.8	915.8	219.1	1195.2
1961	37.8	31.1	.0	2.0	9.4	75.3	400.7	494.9	111.6	126.5	3.3	12.5	68.9	11.4	1082.5	142.3	1305.1
1962	36.6	15.6	12.3	.6	3.7	47.3	217.7	219.0	225.2	.0	3.0	7.6	52.2	16.6	709.2	10.6	788.6
1963	15.4	6.5	7.0	2.5	19.1	78.8	151.7	402.3	312.0	.4	9.3	5.0	21.9	28.6	944.8	14.7	1010.0
1964	3.7	.8	.9	.4	24.4	23.5	413.6	217.2	250.1	1.4	1.2	11.1	4.5	25.7	904.4	13.7	948.3
1965	9.0	14.8	15.5	24.2	12.3	3.9	208.9	212.2	136.7	25.2	.0	.1	23.8	52.0	561.7	25.3	662.8
1966	7.5	13.0	1.8	.4	26.6	154.4	150.8	404.7	61.7	8.0	7.6	3.1	20.5	28.8	771.6	18.7	839.6
1967	.0	.1	33.0	1.1	4.9	55.4	285.7	484.8	231.9	5.5	2.2	59.0	.1	39.0	1057.8	66.7	1163.6
1968	20.1	7.6	10.6	.9	.0	53.3	304.3	200.9	80.5	20.8	.0	2.3	27.7	11.5	639.0	23.1	701.3
1969	5.8	4.1	8.7	6.0	22.8	16.5	289.5	300.7	250.9	.0	15.9	.0	9.9	37.5	857.6	15.9	920.9
1970	38.8	45.6	7.4	.1	21.7	116.6	132.2	305.7	130.5	17.2	.0	.0	84.4	29.2	685.0	17.2	815.8
1971	11.4	15.4	4.1	10.4	51.4	129.3	299.8	285.3	148.4	89.0	11.0	.0	26.8	65.9	862.8	100.0	1055.5
1972	6.3	30.8	6.5	2.9	.0	51.6	154.5	251.3	139.5	11.8	6.5	2.4	37.1	9.4	596.9	20.7	664.1
1973	13.6	12.2	2.1	.0	13.4	98.0	214.3	298.8	72.3	62.3	.0	4.0	25.8	15.5	683.4	66.3	791.0
1974	.1	.0	.2	.5	16.0	35.1	346.7	213.9	28.9	24.4	.0	15.9	.1	16.7	624.6	40.3	681.7
1975	18.3	6.1	9.7	.2	.4	170.8	297.5	229.4	266.4	30.7	.0	.0	24.4	10.3	964.1	30.7	1029.5
1976	3.5	13.5	3.7	2.3	15.4	91.9	297.1	383.8	88.5	3.1	2.3	.9	17.0	21.4	861.3	6.3	906.0
1977	20.9	5.0	.7	32.5	32.0	74.3	383.7	206.4	192.8	30.4	.0	15.8	25.9	65.2	857.2	46.2	994.5
1978	8.4	30.8	46.7	5.1	.6	219.6	284.2	379.5	164.9	1.5	2.0	5.1	39.2	52.4	1048.2	8.6	1148.4
1979	40.5	59.0	16.2	3.9	40.0	49.7	212.1	88.2	24.1	3.1	18.9	7.6	99.5	60.1	374.1	29.6	563.3
1980	4.1	15.5	32.0	.5	4.4	118.6	316.1	292.4	85.6	15.9	1.9	20.3	19.6	36.9	812.7	38.1	907.3
1981	19.5	6.3	16.8	.7	24.0	107.7	324.9	109.1	96.8	4.6	25.9	3.2	25.8	41.5	638.5	33.7	739.5
1982	27.9	11.0	67.0	26.4	45.6	67.1	182.5	369.5	62.1	3.5	12.3	11.6	38.9	139.0	681.2	27.4	886.5
1983	30.1	2.9	4.6	56.2	37.2	77.7	327.9	367.1	286.0	61.0	.0	13.4	33.0	98.0	1058.7	74.4	1264.1
1984	20.9	25.4	.2	7.8	.6	169.1	257.3	281.4	105.7	.5	.0	.7	46.3	8.6	813.5	1.2	869.6
1985	8.1	.0	1.9	9.4	6.9	38.1	354.2	245.0	190.7	149.8	.0	19.9	8.1	18.2	828.0	169.7	1024.0
1986	13.7	60.1	6.6	8.8	31.9	82.8	217.5	177.7	94.0	26.5	3.4	10.9	73.8	47.3	572.0	40.8	733.9
1987	13.1	12.4	4.6	1.6	49.5	26.8	130.7	179.7	110.0	19.9	.0	10.6	25.5	55.7	447.2	30.5	558.9
1988	6.4	6.9	21.4	10.9	8.1	110.5	347.1	375.3	102.1	18.4	.0	16.3	13.3	40.4	935.0	34.7	1023.4
1989	28.6	1.6	33.1	.4	2.9	94.6	147.6	281.0	147.8	2.1	5.0	17.2	30.2	36.4	671.0	24.3	761.9
1990	.0	59.0	7.0	1.2	33.7	41.5	246.7	174.2	238.3	8.1	4.9	27.6	59.0	41.9	700.7	40.6	842.2
MEAN	20.6	18.5	12.4	6.2	14.6	87.0	267.1	262.5	150.8	28.5	3.8	9.5	39.1	33.2	767.4	41.8	881.5
PER ANN	2.3	2.1	1.4	.7	1.7	9.9	30.3	29.8	17.1	3.2	.4	1.1	4.4	3.8	87.1	4.7	100.0
STD	17.6	21.0	15.1	9.9	13.2	61.7	87.8	99.3	90.9	46.9	7.2	13.6	26.3	24.2	180.0	49.8	182.3
COV	85.4	113.5	121.1	159.8	90.4	70.9	32.9	37.8	60.3	164.4	187.1	143.1	67.3	73.0	23.5	119.0	20.7
1991	4.7	16.6	7.6	5.3	8.5	62.0	124.2	300.0	70.4	.0	6.7	15.8	21.3	21.4	556.6	22.5	621.8
1992	26.2	14.6	2.9	.9	10.6	26.9	212.3	303.5	104.3	46.9	9.5	.0	40.8	14.4	647.0	56.4	758.6
1993	3.1	22.7	31.8	2.8	30.7	86.4	161.5	141.8	273.8	.2	.1	.0	25.8	65.3	663.5	.3	754.9
1994	18.8	22.4	.0	21.0	6.0	51.8	367.7	232.6	10.0	1.0	.0	1.5	41.2	27.0	662.1	2.5	732.8

13.HARYANA AREA 45698 SQ.KM NO OF STATION 12

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	7.4	44.3	.0	5.1	39.6	142.2	124.6	65.7	43.7	.0	.0	23.1	51.7	44.7	376.2	23.1	495.7
1872	34.2	6.6	10.3	3.7	16.1	78.9	253.4	232.8	60.2	.2	.0	23.2	40.8	30.1	625.3	23.4	719.6
1873	6.0	.6	5.0	.0	36.1	15.6	309.5	95.1	100.5	18.1	.0	7.6	6.6	41.1	520.7	25.7	594.1
1874	7.9	7.2	33.4	.0	13.6	107.5	199.9	52.8	60.1	.0	.0	2.0	15.1	47.0	420.3	2.0	484.4
1875	1.6	36.2	.0	.0	19.7	6.8	136.4	126.5	437.3	7.8	.0	.7	37.8	19.7	707.0	8.5	773.0
1876	.0	.8	19.2	6.1	26.4	42.3	192.0	36.6	100.8	46.9	.0	.0	.8	51.7	371.7	46.9	471.1
1877	39.3	37.7	23.1	19.8	27.9	77.0	37.8	7.7	38.8	33.9	11.0	59.6	77.0	70.8	161.3	104.5	413.6
1878	18.1	29.8	6.0	48.0	41.5	26.0	140.8	271.7	19.2	.2	.0	12.7	47.9	95.5	457.7	12.9	614.0
1879	.4	8.1	11.5	.0	.7	63.9	95.9	183.8	48.6	2.9	.0	22.2	8.5	12.2	392.2	25.1	438.0
1880	1.9	20.3	.5	.0	4.6	119.4	246.9	37.9	83.1	.0	1.5	20.4	22.2	5.1	487.3	21.9	536.5
1881	5.7	7.3	37.3	16.2	11.3	48.9	215.5	167.8	8.7	.5	.0	.0	13.0	64.8	440.9	.5	519.2
1882	57.9	20.7	.4	5.0	6.2	32.7	205.4	52.2	69.5	.0	.0	.0	78.6	11.6	359.8	.0	450.0
1883	49.5	.2	22.7	.4	25.1	40.3	111.7	4.9	125.7	1.6	8.5	2.3	49.7	48.2	282.6	12.4	392.9
1884	6.2	.1	3.2	.2	5.7	121.7	119.2	136.9	204.3	17.6	.6	.0	6.3	9.1	582.1	18.2	615.7
1885	73.1	1.6	5.4	4.3	43.9	124.6	130.9	374.8	9.6	.6	.0	43.4	74.7	53.6	639.9	44.0	812.2
1886	26.4	1.0	24.3	.9	20.0	104.7	227.9	81.5	8.8	12.7	.0	1.5	27.4	45.2	422.9	14.2	509.7
1887	18.1	4.6	.7	.0	.0	30.3	244.6	290.7	108.0	3.2	.0	8.8	22.7	.7	673.6	12.0	709.0
1888	12.4	21.2	6.4	5.4	15.9	27.0	164.9	131.6	178.3	6.5	8.2	.0	33.6	27.7	501.8	14.7	577.8
1889	34.7	42.3	7.2	2.2	15.7	27.3	150.5	189.9	12.8	.0	.0	.0	77.0	25.1	380.5	.0	482.6
1890	10.5	.0	15.9	4.3	16.9	81.6	257.3	151.0	17.8	5.2	.0	12.7	10.5	37.1	507.7	17.9	573.2
1891	44.4	5.8	38.4	2.5	23.2	20.9	84.5	227.2	100.7	19.7	.2	.0	50.2	64.1	433.3	19.9	567.5
1892	16.8	15.0	1.9	.0	15.9	20.5	140.7	292.0	177.0	.2	.0	22.5	31.8	17.8	630.2	22.7	702.5
1893	51.2	41.6	19.1	3.4	39.4	73.6	212.3	60.6	198.8	.1	3.1	5.6	92.8	61.9	545.3	8.8	708.8
1894	70.8	14.0	15.1	1.3	9.8	115.4	167.9	149.6	167.0	.0	19.8	60.9	84.8	26.2	599.9	80.7	791.6
1895	59.5	10.2	5.5	8.7	3.5	133.5	99.2	133.1	8.3	.0	.0	2.4	69.7	17.7	374.1	2.4	463.9
1896	4.7	20.5	3.2	.0	14.6	47.0	107.9	125.5	8.6	2.9	3.4	10.7	25.2	17.8	289.0	17.0	349.0
1897	4.7	1.8	3.7	4.1	10.6	37.7	147.9	151.1	96.8	3.8	.0	.5	6.5	18.4	433.5	4.3	462.7
1898	.3	63.5	.0	.3	33.6	61.8	144.6	53.2	38.7	.0	2.2	21.5	63.8	33.9	298.3	23.7	419.7
1899	.3	8.4	.1	4.8	5.6	116.0	65.3	23.2	9.4	.6	.0	.0	8.7	10.5	213.9	.6	233.7
1900	16.0	2.3	2.9	25.8	8.7	24.0	124.2	177.3	222.4	2.7	2.2	28.4	18.3	37.4	547.9	33.3	636.9
1901	34.9	25.4	12.9	.0	7.5	17.5	131.9	133.0	11.5	.3	.0	5.4	60.3	20.4	293.9	5.7	380.3
1902	.0	1.6	2.9	8.9	15.4	85.8	157.8	92.6	62.3	10.3	.0	.0	1.6	27.2	398.5	10.3	437.6
1903	17.4	.1	3.6	.2	14.4	7.4	158.0	117.3	90.0	5.9	.0	.9	17.5	18.2	372.7	6.8	415.2
1904	8.5	.6	48.4	.9	26.8	29.3	96.8	146.7	108.5	1.2	10.8	21.9	9.1	76.1	381.3	33.9	500.4
1905	41.2	26.6	12.3	3.3	7.5	16.8	100.8	21.0	92.4	.0	.0	4.6	67.8	23.1	231.0	4.6	326.5
1906	4.2	63.1	32.7	.3	1.1	57.5	126.1	111.2	171.4	.0	.0	3.5	67.3	34.1	466.2	3.5	571.1
1907	14.3	42.5	22.6	37.3	10.2	20.5	115.8	179.6	.0	.0	.0	.0	56.8	70.1	315.9	.0	442.8
1908	29.5	6.8	.0	7.4	24.2	16.2	204.0	354.9	10.2	1.2	1.7	.4	36.3	31.6	585.3	3.3	656.5
1909	6.9	13.8	.0	71.7	5.9	117.7	222.9	107.7	153.3	3.2	.0	30.1	20.7	77.6	601.6	33.3	733.2
1910	19.9	8.6	.1	2.7	1.9	65.4	100.6	142.1	145.8	68.4	.0	1.3	28.5	4.7	453.9	69.7	556.8
1911	70.3	.9	59.4	.7	.0	67.8	33.7	47.3	206.9	9.4	39.9	.0	71.2	60.1	355.7	49.3	536.3
1912	51.7	11.3	8.1	11.2	4.0	23.3	158.9	137.1	119.0	.0	11.3	.4	63.0	23.3	438.3	11.7	536.3
1913	1.3	46.9	21.5	3.1	71.7	115.7	148.4	77.7	23.8	.5	.4	11.3	48.2	96.3	365.6	12.2	522.3
1914	2.5	8.5	4.8	18.5	24.8	42.4	229.4	108.6	199.8	19.8	3.0	.2	11.0	48.1	580.2	23.0	662.3
1915	31.2	58.8	39.5	7.1	8.6	44.4	63.7	65.0	105.4	7.2	.0	1.3	90.0	55.2	278.5	8.5	432.2
1916	.7	12.5	.4	3.3	15.7	58.8	139.5	211.4	107.0	64.6	.0	.0	13.2	19.4	516.7	64.6	613.9
1917	8.4	7.2	4.0	40.8	33.4	66.7	151.1	205.1	347.3	100.8	.0	8.9	15.6	78.2	770.2	109.7	973.7
1918	9.4	.1	11.1	10.6	.7	28.6	14.1	147.7	4.7	.3	2.6	.0	9.5	22.4	195.1	2.9	229.9
1919	56.3	3.0	7.1	2.8	17.6	1.5	164.2	166.3	54.6	.0	2.4	25.9	59.3	27.5	386.6	28.3	501.7
1920	10.5	14.3	14.7	.2	27.8	61.7	199.3	31.5	11.0	.6	.0	.2	24.8	42.7	303.5	.8	371.8
1921	19.7	.7	.0	3.2	.2	16.2	118.9	169.2	107.3	38.1	.0	2.8	20.4	3.4	411.6	40.9	476.3
1922	14.3	5.1	1.5	2.7	1.1	89.1	152.6	77.2	181.3	.7	.0	26.2	19.4	5.3	500.2	26.9	551.8
1923	20.4	62.7	1.2	.2	21.3	23.2	174.4	226.7	13.3	6.8	.1	33.7	83.1	22.7	437.6	40.6	584.0
1924	48.3	18.7	2.1	1.4	9.1	24.2	84.5	166.1	229.7	47.8	.2	19.2	67.0	12.6	504.5	67.2	651.3
1925	4.7	.2	.0	3.0	14.8	161.9	245.8	113.0	7.8	5.4	13.5	.2	4.9	17.8	528.5	19.1	570.3
1926	11.5	7.4	33.7	11.3	40.0	20.4	181.6	284.1	49.7	.6	3.4	.2	18.9	85.0	535.8	4.2	643.9
1927	.0	36.0	24.1	7.7	16.3	13.8	174.5	144.4	34.8	24.7	1.5	35.6	36.0	48.1	367.5	61.8	513.4
1928	21.9	25.4	4.4	6.8	3.5	43.7	137.0	84.7	41.1	5.0	21.3	15.6	47.3	14.7	306.5	41.9	410.4
1929	17.5	.0	.0	10.9	4.8	15.1	133.7	110.4	10.4	4.3	.0	29.7	17.5	15.7	269.6	34.0	336.8
1930	28.3	9.8	4.2	1.9	2.2	82.1	292.9	80.1	35.8	3.8	1.3	2.6	38.1	8.3	490.9	7.7	545.0
1931	.9	19.8	16.0	.7	9.0	11.3	206.3	125.3	97.0	25.7	.0	.0	20.7	25.7	439.9	25.7	512.0
1932	4.0	4.5	29.4	5.7	6.2	11.3	133.5	106.7	148.2	.0	.0	19.1	8.5	41.3	399.7	19.1	468.6
1933	.5	20.9	14.0	6.0	46.3	102.3	167.8	281.8	344.6	11.8	.7	1.2	21.4	66.3	896.5	13.7	997.9
1934	19.5	1.8	56.3	.7	2.0	67.7	160.8	190.4	13.8	.0	.0	7.0	21.3	59.0	432.7	7.0	520.0
1935	41.6	28.9	9.4	31.2	1.8	5.4	199.4	141.2	94.1	10.8	5.8	14.9	70.5	42.4	440.1	31.5	584.5

13.HARYANA AREA 45698 SQ.KM NO OF STATION 12

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	1.7	19.5	8.9	1.2	5.9	154.6	137.8	131.0	57.7	.3	.5	30.9	21.2	16.0	481.1	31.7	550.0
1937	.6	81.3	5.7	19.6	9.8	48.4	170.7	36.0	143.0	.9	.3	8.7	81.9	35.1	398.1	9.9	525.0
1938	44.8	8.7	1.2	1.1	7.2	56.9	76.7	53.7	9.9	10.0	.1	.0	53.5	9.5	197.2	10.1	270.3
1939	1.3	41.4	23.8	.8	.2	97.7	68.1	32.7	40.7	.0	.0	.0	42.7	24.8	239.2	.0	306.7
1940	29.3	37.9	11.6	8.4	.6	40.2	115.8	118.4	16.0	.2	.0	.0	67.2	20.6	290.4	.2	378.4
1941	59.1	6.4	2.8	.0	22.9	106.9	33.4	96.9	46.8	5.0	.0	3.8	65.5	25.7	284.0	8.8	384.0
1942	30.4	46.6	2.3	12.4	7.8	44.4	266.0	216.3	160.1	.9	.0	13.0	77.0	22.5	686.8	13.9	800.2
1943	18.2	2.1	2.4	10.9	10.4	30.8	132.3	119.5	101.1	.0	.0	.3	20.3	23.7	383.7	.3	428.0
1944	25.5	42.2	40.3	30.4	1.6	61.9	133.0	98.9	41.8	26.7	.9	.5	67.7	72.3	335.6	28.1	503.7
1945	43.0	.0	1.8	9.0	12.9	39.6	134.6	144.7	340.7	3.1	.0	.0	43.0	23.7	659.6	3.1	729.4
1946	.5	10.0	2.1	4.7	29.3	75.5	105.0	149.6	19.0	17.7	1.6	11.9	10.5	36.1	349.1	31.2	426.9
1947	20.5	14.2	9.4	.5	4.8	22.9	37.0	92.8	307.8	9.6	.0	4.4	34.7	14.7	460.5	14.0	523.9
1948	45.2	41.0	24.5	2.0	8.1	21.6	227.7	236.3	38.5	4.5	.0	.3	86.2	34.6	524.1	4.8	649.7
1949	3.9	37.9	1.1	1.6	9.0	11.8	331.1	61.9	89.1	.7	.0	2.8	41.8	11.7	493.9	3.5	550.9
1950	23.8	8.5	21.3	.3	4.5	14.2	215.0	134.6	140.7	.0	.0	.0	32.3	26.1	504.5	.0	562.9
1951	11.1	.5	35.5	17.0	5.8	20.5	58.3	142.5	36.3	.3	28.4	.0	11.6	58.3	257.6	28.7	356.2
1952	9.7	22.2	14.4	1.9	15.1	52.5	103.2	305.2	3.1	.0	.0	2.4	31.9	31.4	464.0	2.4	529.7
1953	49.9	1.2	.0	6.4	6.2	63.7	265.8	147.4	40.7	2.5	.0	8.4	51.1	12.6	517.6	10.9	592.2
1954	24.7	95.2	9.3	.5	5.5	35.9	142.9	35.8	148.3	57.1	.0	.0	119.9	15.3	362.9	57.1	555.2
1955	35.4	1.7	6.5	12.0	14.5	59.8	92.4	156.0	145.4	126.2	.0	1.1	37.1	33.0	453.6	127.3	651.0
1956	17.0	2.3	30.2	.7	3.7	57.5	253.4	176.8	14.7	128.7	4.1	1.0	19.3	34.6	502.4	133.8	690.1
1957	42.4	.0	29.5	3.0	6.2	33.1	184.2	101.9	155.5	31.2	7.9	20.2	42.4	38.7	474.7	59.3	615.1
1958	6.6	.8	6.7	3.5	4.4	14.7	148.8	167.5	309.6	24.5	.6	10.0	7.4	14.6	640.6	35.1	697.7
1959	33.1	8.1	3.9	.0	7.2	31.8	119.1	176.4	111.5	18.5	26.0	.0	41.2	11.1	438.8	44.5	535.6
1960	10.7	.0	30.2	7.2	4.5	40.8	234.3	378.6	11.6	43.0	.0	10.7	10.7	41.9	665.3	53.7	771.6
1961	65.4	39.2	.1	4.0	12.0	29.1	125.9	278.4	43.5	25.8	4.1	9.3	104.6	16.1	476.9	39.2	636.8
1962	20.6	12.9	8.5	1.8	1.3	10.7	148.7	117.9	211.1	.0	2.8	7.0	33.5	11.6	488.4	9.8	543.3
1963	2.1	5.7	7.8	2.6	6.5	59.6	59.9	318.2	104.3	.0	14.4	6.4	7.8	16.9	542.0	20.8	587.5
1964	6.3	1.6	.6	1.3	16.5	12.2	398.6	188.6	127.0	.0	.5	8.6	7.9	18.4	726.4	9.1	761.8
1965	5.4	10.2	9.6	13.3	17.2	1.9	135.9	132.8	62.4	10.7	.4	.0	15.6	40.1	333.0	11.1	399.8
1966	2.1	22.5	5.6	.9	46.3	108.2	105.8	283.5	56.4	10.8	.5	.0	24.6	52.8	553.9	11.3	642.6
1967	.0	2.3	40.8	1.0	5.4	17.4	126.7	337.6	102.1	9.2	11.2	56.5	2.3	47.2	583.8	76.9	710.2
1968	17.0	18.7	18.1	.0	2.9	39.2	302.2	119.0	.1	5.6	.0	3.6	35.7	21.0	460.5	9.2	526.4
1969	1.6	10.1	13.5	2.5	22.0	14.5	161.1	154.4	169.2	.0	1.5	.0	11.7	38.0	499.2	1.5	550.4
1970	38.4	33.8	9.8	.1	9.7	71.2	71.1	211.5	128.4	1.3	.0	.0	72.2	19.6	482.2	1.3	575.3
1971	14.5	15.5	3.1	8.3	46.2	53.1	154.6	282.1	52.6	11.9	.1	.0	30.0	57.6	542.4	12.0	642.0
1972	7.0	12.8	9.9	12.4	.3	35.5	151.5	204.8	12.8	8.6	38.6	4.3	19.8	22.6	404.6	51.5	498.5
1973	15.9	5.3	2.1	.7	42.8	59.0	114.6	227.9	53.4	22.7	.0	14.9	21.2	45.6	454.9	37.6	559.3
1974	.6	1.7	2.2	1.2	3.4	47.4	197.0	88.3	8.2	7.8	.0	11.9	2.3	6.8	340.9	19.7	369.7
1975	21.1	2.9	7.6	.7	5.0	50.7	235.6	350.4	155.0	18.1	.0	.0	24.0	13.3	791.7	18.1	847.1
1976	11.1	22.3	8.6	4.5	30.8	75.1	227.7	307.7	57.6	.0	.0	1.0	33.4	43.9	668.1	1.0	746.4
1977	24.0	3.4	1.7	22.0	21.7	39.1	324.7	158.8	82.3	8.3	.3	9.1	27.4	45.4	604.9	17.7	695.4
1978	.9	30.2	51.0	1.5	1.4	72.2	232.6	198.6	126.7	2.6	2.1	.7	31.1	53.9	630.1	5.4	720.5
1979	29.7	53.4	17.8	3.2	27.5	43.7	160.1	66.7	25.5	2.0	.6	5.6	83.1	48.5	296.0	8.2	435.8
1980	11.2	6.2	31.7	.8	7.7	62.1	303.5	65.3	70.0	17.5	4.8	27.2	17.4	40.2	500.9	49.5	608.0
1981	27.4	15.6	34.6	.0	24.1	110.4	220.0	71.9	32.7	.0	49.1	.8	43.0	58.7	435.0	49.9	586.6
1982	17.7	17.2	68.2	31.9	60.9	31.2	105.9	173.9	3.8	3.2	2.6	11.1	34.9	161.0	314.8	16.9	527.6
1983	49.6	5.2	13.1	96.6	36.1	34.9	262.1	236.0	89.3	6.4	.0	9.4	54.8	145.8	622.3	15.8	838.7
1984	1.4	15.5	1.2	4.6	.3	55.3	175.8	189.1	76.5	.0	.0	.3	16.9	6.1	496.7	.3	520.0
1985	2.0	.1	1.1	6.3	2.4	50.8	275.2	173.8	32.9	28.6	.0	27.7	2.1	9.8	532.7	56.3	600.9
1986	6.0	29.5	12.8	2.3	39.2	80.0	73.4	100.7	52.1	10.9	1.0	9.1	35.5	54.3	306.2	21.0	417.0
1987	21.1	26.9	16.6	7.5	51.5	39.7	21.3	70.3	11.1	2.0	.0	5.4	48.0	75.6	142.4	7.4	273.4
1988	2.6	15.3	30.2	7.7	5.5	58.3	286.7	217.5	223.2	.0	.3	9.8	17.9	43.4	785.7	10.1	857.1
1989	33.8	.8	15.8	2.1	.4	37.0	67.8	109.1	19.7	1.2	7.0	14.4	34.6	18.3	233.6	22.6	309.1
1990	.0	73.7	7.3	3.5	27.0	25.3	230.3	115.7	178.5	12.6	16.9	23.3	73.7	37.8	549.8	52.8	714.1
MEAN	20.0	17.6	13.3	7.5	15.3	52.2	161.5	150.4	92.5	11.7	3.4	9.4	37.5	36.1	456.6	24.5	554.8
PER ANN	3.6	3.2	2.4	1.3	2.8	9.4	29.1	27.1	16.7	2.1	.6	1.7	6.8	6.5	82.3	4.4	100.0
STD	18.8	19.4	14.5	13.4	14.6	35.8	73.1	84.3	85.9	22.0	8.2	12.7	26.4	26.2	142.2	26.0	146.8
COV	94.4	110.2	108.5	179.7	95.4	68.6	45.3	56.0	93.0	188.0	240.6	135.7	70.2	72.6	31.1	106.0	26.5
1991	.0	24.6	4.4	20.4	14.1	74.9	51.7	178.8	40.0	.0	3.4	30.3	24.6	38.9	345.4	33.7	442.6
1992	25.5	23.2	2.0	2.1	14.0	25.6	122.3	187.8	55.3	3.2	11.7	.1	48.7	18.1	391.0	15.0	472.8
1993	10.0	18.3	20.9	7.5	17.9	86.1	298.8	46.8	137.2	.0	1.2	.0	28.3	46.3	568.9	1.2	644.7
1994	21.7	13.6	.7	13.4	12.6	80.0	331.9	202.4	32.6	.0	.2	1.0	35.3	26.7	646.9	1.2	710.1

14.PUNJAB AREA 50376 SQ.KM NO OF STATION 10

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	4.0	72.8	.0	3.2	21.2	169.1	111.8	29.9	20.8	.0	.0	15.6	76.8	24.4	331.6	15.6	448.4
1872	27.9	17.9	11.5	15.5	24.1	46.7	278.7	237.6	77.0	.6	.0	12.3	45.8	51.1	640.0	12.9	749.8
1873	5.0	.0	8.4	.6	30.4	6.7	170.1	140.5	86.7	12.8	.0	10.0	5.0	39.4	404.0	22.8	471.2
1874	36.7	31.4	22.7	4.3	.9	87.9	90.7	71.6	79.1	.0	.0	.0	68.1	27.9	329.3	.0	425.3
1875	.0	27.9	.9	.0	22.5	19.1	235.4	317.1	374.6	16.8	.0	5.6	27.9	23.4	946.2	22.4	1019.9
1876	5.8	12.7	34.8	43.9	14.3	10.5	246.7	104.3	37.6	31.4	.0	.0	18.5	93.0	399.1	31.4	542.0
1877	66.5	71.4	23.5	34.5	20.9	30.4	77.5	30.3	182.0	15.4	32.8	115.2	137.9	78.9	320.2	163.4	700.4
1878	28.4	44.3	5.2	49.4	59.8	13.7	190.8	315.1	19.6	.0	.0	8.6	72.7	114.4	539.2	8.6	734.9
1879	1.6	3.4	25.0	.4	2.8	117.6	59.9	146.2	33.1	.0	.0	18.7	5.0	28.2	356.8	18.7	408.7
1880	8.1	57.2	.0	.7	5.6	110.5	297.5	47.5	32.4	.0	3.6	21.1	65.3	6.3	487.9	24.7	584.2
1881	3.0	31.0	60.7	13.9	11.8	106.2	325.8	191.7	25.0	.6	.0	.0	34.0	86.4	648.7	.6	769.7
1882	55.5	31.1	.7	10.6	5.4	18.8	223.4	127.4	148.4	.0	.0	.2	86.6	16.7	518.0	.2	621.5
1883	70.3	1.5	7.3	5.7	33.1	9.4	121.4	70.6	177.7	.6	12.3	3.7	71.8	46.1	379.1	16.6	513.6
1884	5.2	14.6	16.2	1.7	6.8	68.5	213.7	130.6	114.3	12.7	.0	1.4	19.8	24.7	527.1	14.1	585.7
1885	71.7	6.5	8.8	25.5	70.1	38.5	95.3	122.9	22.0	.7	.0	55.3	78.2	104.4	278.7	56.0	517.3
1886	51.4	4.2	66.0	2.6	23.3	153.2	242.4	100.9	23.0	36.8	1.9	17.2	55.6	91.9	519.5	55.9	722.9
1887	32.5	.0	1.1	1.1	2.3	30.5	116.3	295.4	70.5	5.5	.0	1.8	32.5	4.5	512.7	7.3	557.0
1888	31.9	13.7	9.3	2.3	.6	38.4	196.2	211.9	60.2	4.5	12.6	.7	45.6	12.2	506.7	17.8	582.3
1889	60.5	92.4	3.4	2.8	24.7	47.7	188.4	195.0	17.0	.1	.0	.0	152.9	30.9	448.1	.1	632.0
1890	5.8	5.6	24.4	11.6	2.3	82.4	197.8	155.4	16.3	7.7	5.3	44.0	11.4	38.3	451.9	57.0	558.6
1891	88.3	14.7	77.4	10.2	5.7	9.0	105.1	82.3	51.4	36.4	.5	.0	103.0	93.3	247.8	36.9	481.0
1892	12.2	10.3	1.2	.7	22.5	12.7	246.3	295.8	160.7	.0	.0	25.4	22.5	24.4	715.5	25.4	787.8
1893	77.4	81.9	19.9	14.2	41.2	121.0	250.9	66.5	253.8	.0	.0	4.3	159.3	75.3	692.2	4.3	931.1
1894	96.2	29.7	27.7	5.3	10.2	336.0	239.1	161.3	69.5	.0	6.1	70.0	125.9	43.2	805.9	76.1	1051.1
1895	69.0	22.4	11.7	15.1	5.3	121.2	60.7	204.1	.0	.9	.2	.3	91.4	32.1	386.0	1.4	510.9
1896	12.6	34.9	4.8	.5	5.0	52.9	86.1	151.0	16.3	3.8	1.4	11.4	47.5	10.3	306.3	16.6	380.7
1897	31.9	15.9	10.9	30.8	6.9	32.0	137.5	176.3	33.8	1.8	.0	6.8	47.8	48.6	379.6	8.6	484.6
1898	9.5	118.5	.0	.3	13.4	58.8	264.2	52.7	64.6	.0	.0	36.0	128.0	13.7	440.3	36.0	618.0
1899	.0	10.4	.9	6.3	7.9	61.2	85.5	55.4	4.0	2.3	.0	.0	10.4	15.1	206.1	2.3	233.9
1900	42.0	5.9	7.0	22.6	10.3	22.4	171.1	347.1	325.5	.0	.0	30.4	47.9	39.9	866.1	30.4	984.3
1901	55.0	49.4	29.1	3.3	32.3	8.5	174.0	130.5	34.0	1.8	.0	3.1	104.4	64.7	347.0	4.9	521.0
1902	.0	1.0	11.9	12.6	33.0	48.5	123.8	111.9	81.2	10.3	.0	.0	1.0	57.5	365.4	10.3	434.2
1903	26.8	.8	55.7	1.6	11.6	4.3	232.4	133.9	145.7	9.1	.0	9.6	27.6	68.9	516.3	18.7	631.5
1904	24.9	1.7	99.4	1.3	13.6	21.0	64.4	113.9	72.8	10.9	10.0	28.7	26.6	114.3	272.1	49.6	462.6
1905	58.7	38.7	23.5	.4	1.6	13.4	120.5	43.6	96.9	.7	.0	9.7	97.4	25.5	274.4	10.4	407.7
1906	5.3	87.6	54.8	2.3	3.2	41.5	101.7	182.8	183.4	.0	.0	28.3	92.9	60.3	509.4	28.3	690.9
1907	32.5	120.9	53.8	47.0	4.3	20.7	91.4	287.5	7.5	1.0	.0	.0	153.4	105.1	407.1	1.0	666.6
1908	53.6	9.7	.2	36.7	10.6	8.7	188.8	384.7	47.4	.0	2.5	2.0	63.3	47.5	629.6	4.5	744.9
1909	34.4	26.5	.1	54.2	2.6	76.8	209.6	151.4	205.0	1.2	.0	39.5	60.9	56.9	642.8	40.7	801.3
1910	26.5	6.7	1.0	6.3	2.9	110.9	142.5	239.1	89.3	15.1	.0	5.1	33.2	10.2	581.8	20.2	645.4
1911	131.3	7.9	109.5	5.5	1.0	78.7	22.1	117.2	41.2	13.5	36.6	.0	139.2	116.0	259.2	50.1	564.5
1912	50.5	4.9	6.2	25.5	11.2	7.8	181.4	205.6	38.6	.0	20.8	2.2	55.4	42.9	433.4	23.0	554.7
1913	1.2	56.3	52.8	.6	48.9	82.4	127.5	147.7	14.0	1.1	4.9	17.3	57.5	102.3	371.6	23.3	554.7
1914	18.7	31.1	12.6	51.3	22.2	59.9	274.9	76.5	202.9	45.4	10.2	8.7	49.8	86.1	614.2	64.3	814.4
1915	36.0	61.2	56.2	8.3	6.2	19.9	52.6	73.3	133.0	23.0	.0	2.8	97.2	70.7	278.8	25.8	472.5
1916	1.8	20.9	2.5	5.4	6.7	32.1	252.1	196.9	69.8	15.8	.0	.0	22.7	14.6	550.9	15.8	604.0
1917	7.5	3.1	15.6	92.9	38.7	94.0	181.7	237.6	361.1	155.5	.0	8.8	10.6	147.2	874.4	164.3	1196.5
1918	4.1	.5	72.2	49.0	.2	34.9	42.7	151.5	29.4	.0	4.2	4.5	4.6	121.4	258.5	8.7	393.2
1919	88.8	11.5	12.9	5.6	20.3	6.3	172.8	108.8	42.6	.3	3.4	34.4	100.3	38.8	330.5	38.1	507.7
1920	28.3	20.2	22.4	.8	20.8	41.4	169.1	108.5	25.6	.0	.0	1.5	48.5	44.0	344.6	1.5	438.6
1921	17.6	3.4	.3	.4	1.2	17.8	108.3	116.9	59.2	31.7	.0	20.3	21.0	1.9	302.2	52.0	377.1
1922	25.3	16.1	1.4	2.2	1.7	61.9	141.9	92.5	144.9	2.5	.0	36.7	41.4	5.3	441.2	39.2	527.1
1923	42.5	71.6	6.5	10.6	46.2	28.9	229.7	304.8	11.3	3.3	2.9	42.2	114.1	63.3	574.7	48.4	800.5
1924	36.2	49.4	2.6	.8	14.4	1.4	184.8	119.0	148.3	.5	.8	36.1	85.6	17.8	453.5	37.4	594.3
1925	20.3	1.8	1.0	7.7	21.5	107.6	320.8	157.9	9.6	7.9	10.4	.0	22.1	30.2	595.9	18.3	666.5
1926	17.1	7.8	48.0	20.8	31.6	3.0	183.1	248.1	53.3	.1	1.4	5.2	24.9	100.4	487.5	6.7	619.5
1927	.4	36.3	16.5	6.1	21.3	23.4	199.8	101.6	17.3	8.5	3.1	28.5	36.7	43.9	342.1	40.1	462.8
1928	26.9	22.1	6.1	6.5	2.0	31.4	100.0	119.2	61.6	.9	31.3	34.7	49.0	14.6	312.2	66.9	442.7
1929	9.5	.9	.0	7.1	1.5	47.9	160.0	107.3	7.4	14.4	.0	58.7	10.4	8.6	322.6	73.1	414.7
1930	32.0	26.4	6.8	15.1	9.3	55.9	253.2	49.3	86.8	1.6	.8	17.2	58.4	31.2	445.2	19.6	554.4
1931	14.9	27.3	22.5	3.3	17.5	7.3	188.8	231.6	72.6	14.4	.0	.2	42.2	43.3	500.3	14.6	600.4
1932	18.2	15.5	33.8	7.9	12.1	23.5	209.1	141.1	36.5	1.2	.2	36.9	33.7	53.8	410.2	38.3	536.0
1933	5.9	25.0	33.9	6.3	28.1	31.1	189.2	349.1	217.2	9.6	2.4	.9	30.9	68.3	786.6	12.9	898.7
1934	18.5	1.1	34.3	2.5	4.4	46.1	152.1	120.5	12.0	.0	.0	11.2	19.6	41.2	330.7	11.2	402.7
1935	69.8	42.7	14.9	47.3	3.7	8.2	162.3	149.3	33.7	4.9	12.7	11.2	112.5	65.9	353.5	28.8	560.7

14.PUNJAB AREA 50376 SQ.KM NO OF STATION 10

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	1.2	58.3	20.5	9.8	6.0	101.3	183.6	156.8	54.8	14.6	.3	24.1	59.5	36.3	496.5	39.0	631.3
1937	5.7	104.1	12.3	43.1	13.6	58.3	203.4	28.4	59.1	8.2	.9	26.8	109.8	69.0	349.2	35.9	563.9
1938	77.5	29.4	2.8	11.5	4.1	132.5	102.5	116.3	4.4	13.9	.0	.5	106.9	18.4	355.7	14.4	495.4
1939	8.9	60.5	63.4	5.9	.7	47.1	91.4	78.7	45.3	1.3	.0	.0	69.4	70.0	262.5	1.3	403.2
1940	36.3	41.6	11.9	2.9	3.7	75.1	152.2	228.7	23.7	.0	.4	.8	77.9	18.5	479.7	1.2	577.3
1941	51.3	9.1	8.8	.1	14.7	92.7	154.8	157.1	35.3	3.7	.0	10.2	60.4	23.6	439.9	13.9	537.8
1942	21.7	62.4	17.5	15.3	16.1	46.4	198.2	266.0	133.4	5.0	.0	39.2	84.1	48.9	644.0	44.2	821.2
1943	63.1	1.6	9.1	8.1	10.2	20.9	150.0	127.5	34.7	.2	.0	.1	64.7	27.4	333.1	.3	425.5
1944	35.9	54.8	49.3	46.2	1.0	31.3	180.7	159.0	75.3	4.6	.8	12.9	90.7	96.5	446.3	18.3	651.8
1945	80.2	.0	19.1	13.5	3.4	31.5	145.7	130.0	335.1	7.3	1.1	.1	80.2	36.0	642.3	8.5	767.0
1946	1.7	18.6	5.9	2.9	21.3	70.8	120.2	144.3	4.0	34.4	9.8	43.7	20.3	30.1	339.3	87.9	477.6
1947	20.6	14.3	8.4	.0	8.7	2.7	70.2	235.9	309.0	2.5	.0	45.7	34.9	17.1	617.8	48.2	718.0
1948	16.1	52.8	70.7	4.5	2.4	49.7	144.6	209.0	49.8	.0	1.0	21.4	68.9	77.6	453.1	22.4	622.0
1949	10.8	60.4	5.1	4.8	8.0	35.4	357.4	91.8	53.6	1.1	.0	4.5	71.2	17.9	538.2	5.6	632.9
1950	51.2	27.0	39.4	1.6	6.1	14.6	204.2	223.0	413.6	.0	.0	.0	78.2	47.1	855.4	.0	980.7
1951	24.0	3.4	52.7	14.0	26.4	5.0	204.6	120.8	7.3	2.1	31.6	1.3	27.4	93.1	337.7	35.0	493.2
1952	19.9	26.2	29.7	1.1	5.3	64.6	144.6	231.6	.0	.3	.2	3.0	46.1	36.1	440.8	3.5	526.5
1953	47.5	1.5	.0	10.6	1.5	41.5	317.2	148.7	86.1	.0	.4	8.2	49.0	12.1	593.5	8.6	663.2
1954	35.9	104.7	10.3	.0	1.8	26.3	165.5	43.8	251.0	22.3	.0	.0	140.6	12.1	486.6	22.3	661.6
1955	30.9	4.4	23.5	16.7	16.6	40.5	162.4	185.4	137.6	425.5	.0	3.7	35.3	56.8	525.9	429.2	1047.2
1956	20.9	7.6	44.5	4.9	.1	46.7	222.3	227.2	20.6	139.2	.4	4.9	28.5	49.5	516.8	144.5	739.3
1957	108.1	6.3	30.4	8.1	12.9	17.7	185.3	179.5	75.0	16.1	9.6	38.4	114.4	51.4	457.5	64.1	687.4
1958	7.4	4.4	7.5	3.1	.0	30.7	136.0	111.6	377.8	37.8	.0	49.0	11.8	10.6	656.1	86.8	765.3
1959	41.8	24.4	9.5	7.7	23.3	23.6	237.1	202.2	129.2	27.1	25.9	.0	66.2	40.5	592.1	53.0	751.8
1960	14.5	.0	27.1	4.5	2.0	48.1	243.5	234.0	10.7	.3	.0	25.4	14.5	33.6	536.3	25.7	610.1
1961	54.8	40.5	5.8	18.4	5.9	54.8	241.8	242.8	107.8	25.3	2.9	5.8	95.3	30.1	647.2	34.0	806.6
1962	30.1	15.3	54.7	10.1	4.5	31.4	225.5	146.9	441.3	2.1	19.7	6.9	45.4	69.3	845.1	28.7	988.5
1963	.0	11.4	35.5	1.8	23.8	27.4	133.2	193.6	61.5	1.1	6.1	14.6	11.4	61.1	415.7	21.8	510.0
1964	9.8	2.8	11.4	7.0	23.8	11.2	373.6	249.0	133.3	.0	.0	9.1	12.6	42.2	767.1	9.1	831.0
1965	14.0	23.6	17.5	27.0	72.8	2.6	228.2	87.4	5.6	42.8	18.6	.1	37.6	117.3	323.8	61.5	540.2
1966	.1	41.6	20.6	3.2	33.1	110.7	138.2	181.7	145.7	14.3	.0	1.7	41.7	56.9	576.3	16.0	690.9
1967	1.2	12.8	78.0	.0	1.5	9.5	192.4	262.8	57.4	21.2	4.3	79.3	14.0	79.5	522.1	104.8	720.4
1968	20.9	33.5	26.8	1.9	1.4	44.1	218.2	160.2	.2	15.2	1.4	6.9	54.4	30.1	422.7	23.5	530.7
1969	17.1	24.4	24.3	10.4	22.8	5.6	156.0	108.4	110.1	2.4	4.5	.0	41.5	57.5	380.1	6.9	486.0
1970	56.7	17.4	8.2	1.0	18.8	139.0	82.5	292.8	95.1	3.9	.0	.0	74.1	28.0	609.4	3.9	715.4
1971	6.9	33.2	1.9	8.8	42.4	78.8	239.6	378.8	314.8	1.6	5.8	.0	40.1	53.1	1012.0	7.4	1112.6
1972	11.6	22.6	9.4	8.4	.0	34.6	188.0	148.2	29.6	1.4	12.2	13.1	34.2	17.8	400.4	26.7	479.1
1973	18.4	26.7	8.3	1.2	50.6	95.3	274.5	370.7	28.5	23.5	5.6	37.9	45.1	60.1	769.0	67.0	941.2
1974	3.3	5.7	2.5	2.9	10.7	47.8	172.2	240.3	182.7	.0	.0	10.8	9.0	16.1	643.0	10.8	678.9
1975	18.3	37.0	21.5	4.0	16.1	69.8	233.8	193.9	348.3	.3	.0	.0	55.3	41.6	845.8	.3	943.0
1976	33.7	46.7	22.5	12.4	8.8	67.5	178.9	350.7	103.1	5.2	.0	.0	80.4	43.7	700.2	5.2	829.5
1977	38.8	1.8	3.8	41.6	37.1	115.0	197.3	161.3	96.6	16.7	.0	18.0	40.6	82.5	570.2	34.7	728.0
1978	5.1	25.3	74.6	7.3	1.4	99.4	217.0	206.0	67.7	1.8	9.3	.6	30.4	83.3	590.1	11.7	715.5
1979	22.1	55.9	49.0	16.2	20.7	41.2	166.7	53.9	49.6	2.3	8.7	4.0	78.0	85.9	311.4	15.0	490.3
1980	18.4	10.8	29.8	7.1	1.8	55.7	444.9	95.7	71.1	29.6	7.4	56.1	29.2	38.7	667.4	93.1	828.4
1981	55.8	19.6	54.7	1.8	4.8	23.7	192.7	45.9	20.6	.9	47.5	.0	75.4	61.3	282.9	48.4	468.0
1982	30.8	22.2	90.5	57.7	44.6	20.4	100.0	214.8	3.2	7.3	13.3	23.9	53.0	192.8	338.4	44.5	628.7
1983	64.6	27.9	24.2	120.8	52.0	24.4	131.7	199.8	56.8	16.2	.0	1.7	92.5	197.0	412.7	17.9	720.1
1984	2.8	61.8	17.4	11.1	.3	51.7	224.6	171.1	101.2	.6	1.5	4.2	64.6	28.8	548.6	6.3	648.3
1985	3.5	1.5	6.0	22.5	8.0	50.4	233.7	184.0	33.6	50.8	.7	29.2	5.0	36.5	501.7	80.7	623.9
1986	1.5	37.2	27.9	20.8	36.6	114.9	138.0	149.9	41.7	14.6	10.1	11.9	38.7	85.3	444.5	36.6	605.1
1987	19.4	19.5	23.6	10.8	90.0	26.6	38.8	76.4	9.4	24.9	.6	4.0	38.9	124.4	151.2	29.5	344.0
1988	4.2	17.5	40.3	1.8	3.5	42.5	352.2	176.0	397.5	.6	1.9	33.4	21.7	45.6	968.2	35.9	1071.4
1989	41.7	5.3	28.5	2.3	8.1	37.3	194.6	157.0	37.4	.3	12.0	22.2	47.0	38.9	426.3	34.5	546.7
1990	2.7	52.8	40.0	6.2	7.4	17.4	256.8	181.4	178.7	.3	5.8	41.7	55.5	53.6	634.3	47.8	791.2
MEAN	29.1	27.7	23.8	13.2	15.7	50.4	180.7	166.4	96.2	14.1	4.3	15.5	56.8	52.6	493.6	33.9	637.0
PER ANN	4.6	4.3	3.7	2.1	2.5	7.9	28.4	26.1	15.1	2.2	.7	2.4	8.9	8.3	77.5	5.3	100.0
STD	26.4	26.7	23.6	18.6	16.8	45.2	74.0	81.6	103.0	43.4	8.4	19.5	36.6	36.3	174.3	47.5	181.4
COV	90.6	96.4	99.5	141.5	107.2	89.8	40.9	49.0	107.1	307.8	194.6	125.8	64.4	69.1	35.3	140.0	28.5
1991	.0	47.9	21.1	43.2	10.5	87.9	102.7	166.4	49.6	1.3	.0	33.1	47.9	74.8	406.6	34.4	563.7
1992	50.2	39.4	17.1	3.6	15.7	38.4	132.9	183.2	60.6	2.8	17.4	.8	89.6	36.4	415.1	21.0	562.1
1993	9.4	29.0	42.1	17.7	30.6	61.2	539.0	23.8	119.5	.0	.9	.0	38.4	90.4	743.5	.9	873.2
1994	27.4	29.0	3.6	11.1	13.0	62.9	315.7	267.0	72.4	1.1	.0	12.4	56.4	27.7	718.0	13.5	815.6

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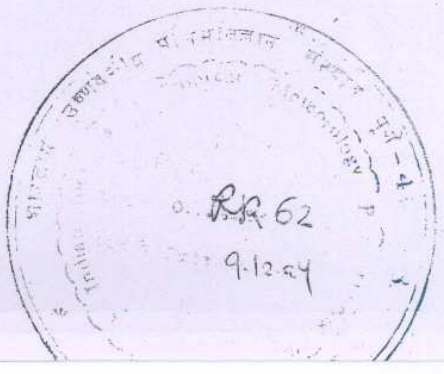

29.RAYALASEEMA AREA 69043 SQ.KM NO OF STATION 4

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	7.3	.0	20.4	12.8	84.4	29.2	125.9	82.2	158.3	86.6	76.5	.2	7.3	117.6	395.6	163.3	683.8
1872	.0	.0	.0	16.5	99.3	62.0	79.0	108.3	192.9	123.7	131.6	39.1	.0	115.8	442.2	294.4	852.4
1873	.0	21.9	.0	9.5	44.1	37.6	44.9	108.5	157.1	205.4	12.0	20.3	21.9	53.6	348.1	237.7	661.3
1874	.0	1.4	.0	.3	155.5	100.6	144.7	47.8	440.2	292.3	34.6	10.9	1.4	155.8	733.3	337.8	1228.3
1875	.2	.0	2.9	1.0	52.9	102.4	115.8	152.3	153.3	82.7	6.2	16.2	.2	56.8	523.8	105.1	685.9
1876	.0	.0	2.1	9.0	5.1	70.5	25.3	65.6	36.1	6.4	5.6	.0	.0	16.2	197.5	12.0	225.7
1877	.0	.0	32.9	2.0	75.4	76.0	33.2	58.6	177.6	172.0	44.5	6.8	.0	110.3	345.4	223.3	679.0
1878	.0	.0	4.2	19.1	16.5	67.2	216.1	255.0	252.7	184.8	60.1	5.0	.0	39.8	791.0	249.9	1080.7
1879	10.8	6.0	7.1	1.2	137.0	85.7	142.3	102.2	64.7	106.4	25.3	.0	16.8	145.3	394.9	131.7	688.7
1880	1.3	5.7	.0	21.8	50.5	83.0	47.8	117.0	100.4	139.9	142.6	14.7	7.0	72.3	348.2	297.2	724.7
1881	.0	.0	14.6	7.1	57.5	83.5	20.8	199.7	140.1	56.1	78.3	3.4	.0	79.2	444.1	137.8	661.1
1882	12.4	.0	.0	25.5	48.4	24.3	33.4	109.3	192.7	108.0	211.3	6.5	12.4	73.9	359.7	325.8	771.8
1883	.0	.0	17.5	8.5	13.3	89.6	73.4	155.6	84.9	230.2	51.7	41.9	.0	39.3	403.5	323.8	766.6
1884	4.8	.0	.0	7.5	9.2	33.4	54.7	85.5	86.4	162.8	92.8	61.0	4.8	16.7	260.0	316.6	598.1
1885	.0	.0	7.2	.7	44.1	86.1	107.5	66.3	93.2	127.0	85.3	77.4	.0	52.0	353.1	289.7	694.8
1886	.0	.0	8.0	.0	60.1	74.8	162.8	159.9	113.7	178.8	44.4	12.8	.0	68.1	511.2	236.0	815.3
1887	.0	.0	.0	7.1	31.8	99.8	31.8	161.2	187.4	117.0	107.4	41.5	.0	38.9	480.2	265.9	785.0
1888	.0	.0	.0	28.8	52.1	31.8	44.9	65.9	215.0	110.8	118.5	8.8	.0	80.9	357.6	238.1	676.6
1889	.0	.0	3.9	24.7	25.3	53.4	137.9	146.9	220.9	198.4	26.7	29.5	.0	53.9	559.1	254.6	867.6
1890	.0	.0	4.8	41.3	11.1	132.6	84.8	124.5	173.2	113.4	74.9	9.8	.0	57.2	515.1	198.1	770.4
1891	.0	5.5	1.5	12.4	20.7	39.4	51.4	50.6	57.1	90.0	23.3	17.2	5.5	34.6	198.5	130.5	369.1
1892	.0	1.5	.0	8.3	22.1	191.1	101.3	243.4	145.0	194.8	6.7	16.7	1.5	30.4	680.8	218.2	930.9
1893	5.1	1.8	30.6	12.4	35.7	110.5	190.3	74.1	113.8	158.4	142.2	.0	6.9	78.7	488.7	300.6	874.9
1894	6.0	10.2	.0	12.4	32.9	39.3	110.8	214.3	103.4	147.3	46.1	6.9	16.2	45.3	467.8	200.3	729.6
1895	.0	1.1	.2	54.0	48.8	40.0	122.6	82.6	176.8	166.1	10.7	51.9	1.1	103.0	422.0	228.7	754.8
1896	23.5	.0	.0	6.7	50.2	48.8	58.8	89.2	86.0	8.1	81.5	10.1	23.5	56.9	282.8	99.7	462.9
1897	2.2	6.8	4.0	8.4	41.5	41.7	86.9	150.8	285.7	70.5	13.1	8.5	9.0	53.9	565.1	92.1	720.1
1898	.0	5.8	7.4	41.4	23.4	45.3	67.0	66.0	258.1	50.8	151.9	28.2	5.8	72.2	436.4	230.9	745.3
1899	.0	.0	.4	58.3	41.3	10.6	11.1	71.1	179.4	78.0	6.6	3.3	.0	100.0	272.2	87.9	460.1
1900	1.0	.0	.0	19.4	25.9	50.3	142.6	24.3	192.3	61.5	22.6	13.6	1.0	45.3	409.5	97.7	553.5
1901	6.5	50.9	.0	5.1	37.0	52.6	82.9	50.5	108.6	51.6	105.3	51.9	57.4	42.1	294.6	208.8	602.9
1902	4.2	.0	.0	12.5	24.8	67.6	29.1	126.0	162.7	154.7	37.6	18.5	4.2	37.3	385.4	210.8	637.7
1903	16.3	.0	.0	1.7	55.6	76.9	140.5	148.7	215.0	109.6	218.5	58.2	16.3	57.3	581.1	386.3	1041.0
1904	4.9	.0	.1	6.7	46.2	47.9	74.7	19.3	50.5	109.5	.6	7.2	4.9	53.0	192.4	117.3	367.6
1905	3.4	.7	11.2	10.1	32.8	78.2	36.3	232.5	51.8	139.4	16.6	1.2	4.1	54.1	398.8	157.2	614.2
1906	50.9	17.9	1.6	.0	4.7	113.5	113.4	129.9	184.4	91.0	18.3	95.2	68.8	6.3	541.2	204.5	820.8
1907	1.3	.0	10.0	44.3	4.0	57.9	77.1	28.9	123.5	27.2	88.2	16.1	1.3	58.3	287.4	131.5	478.5
1908	6.5	7.1	2.5	2.5	42.7	26.7	67.7	48.8	231.2	83.7	4.5	3.6	13.6	47.7	374.4	91.8	527.5
1909	54.8	.0	.1	35.3	99.7	39.9	52.4	349.0	157.6	36.6	2.3	1.3	54.8	135.1	598.9	40.2	829.0
1910	.0	.3	2.1	11.9	34.0	56.1	169.6	185.8	194.1	144.6	115.1	.0	.3	48.0	605.6	259.7	913.6
1911	.0	.0	1.5	34.6	58.5	74.5	70.6	45.8	97.6	69.5	55.1	38.2	.0	94.6	288.5	162.8	545.9
1912	.0	.9	.0	5.2	16.8	33.7	76.9	137.1	176.9	155.2	171.9	.0	.9	22.0	424.6	327.1	774.6
1913	.0	.0	.0	.3	42.2	24.2	77.9	34.5	120.6	158.3	7.7	37.0	.0	42.5	257.2	203.0	502.7
1914	.5	.0	1.0	10.7	34.8	62.2	73.8	162.1	201.1	43.7	72.9	3.4	.5	46.5	499.2	120.0	666.2
1915	35.7	1.8	62.8	1.8	52.2	43.9	151.9	57.9	198.0	59.4	189.8	2.4	37.5	116.8	451.7	251.6	857.6
1916	.0	.0	.0	3.2	28.1	45.8	242.0	134.6	192.6	239.5	93.4	2.8	.0	31.3	615.0	335.7	982.0
1917	2.1	55.7	1.0	4.6	67.4	98.3	58.7	173.5	152.6	159.9	73.5	9.6	57.8	73.0	483.1	243.0	856.9
1918	30.5	3.1	14.6	2.7	74.5	39.0	42.0	70.5	147.8	3.1	137.2	8.3	33.6	91.8	299.3	148.6	573.3
1919	16.9	.0	12.0	9.8	54.2	76.9	151.1	22.7	259.4	70.2	129.6	24.7	16.9	76.0	510.1	224.5	827.5
1920	74.7	.0	.0	7.4	26.3	43.6	27.1	72.3	155.5	96.5	53.5	.0	74.7	33.7	298.5	150.0	556.9
1921	34.8	.0	.0	36.1	6.7	69.0	168.5	61.8	95.9	215.4	57.5	2.3	34.8	42.8	395.2	275.2	748.0
1922	53.0	.0	.0	7.6	43.4	35.7	46.4	79.5	35.0	89.8	217.4	9.3	53.0	51.0	196.6	316.5	617.1
1923	10.2	12.7	8.6	6.7	24.9	63.9	44.7	22.0	166.1	65.8	12.9	8.9	22.9	40.2	296.7	87.6	447.4
1924	2.7	.0	.2	14.0	44.5	29.6	83.3	70.0	226.9	46.6	110.1	.1	2.7	58.7	409.8	156.8	628.0
1925	.0	.0	5.4	17.1	114.7	38.0	90.4	126.7	102.0	131.5	68.0	78.5	.0	137.2	357.1	278.0	772.3
1926	37.6	.0	15.5	31.4	15.4	95.3	63.9	78.2	171.0	57.3	14.7	2.1	37.6	62.3	408.4	74.1	582.4
1927	1.3	.6	.0	4.7	24.4	90.8	121.3	61.5	242.8	56.5	166.8	.8	1.9	29.1	516.4	224.1	771.5
1928	1.3	42.2	.4	32.9	24.2	87.8	92.4	94.1	120.8	149.6	22.3	9.2	43.5	57.5	395.1	181.1	677.2
1929	7.0	9.7	.0	10.3	25.5	57.4	53.2	34.8	197.8	89.4	89.6	15.8	16.7	35.8	343.2	194.8	590.5
1930	6.7	9.7	11.2	2.7	122.8	102.8	86.8	42.6	169.0	225.8	127.7	29.9	16.4	136.7	401.2	383.4	937.7
1931	.0	.0	2.5	5.7	40.4	93.5	83.4	26.2	154.6	86.9	77.9	41.6	.0	48.6	357.7	206.4	612.7
1932	.0	25.1	.0	.7	26.8	72.8	58.5	139.2	99.6	66.6	106.4	10.1	25.1	27.5	370.1	183.1	605.8
1933	.0	3.0	16.0	18.1	81.8	17.3	77.8	205.7	64.5	112.2	43.4	73.7	3.0	115.9	365.3	229.3	713.5
1934	16.5	.0	.0	30.8	22.1	90.5	122.0	36.4	47.0	91.1	86.3	2.2	16.5	52.9	295.9	179.6	544.9
1935	5.3	.0	2.4	15.9	8.8	103.3	100.1	272.4	110.9	138.4	11.5	3.6	5.3	27.1	586.7	153.5	772.6

IDENTIFICATION OF A UNIVERSAL SPECTRUM FOR NONLINEAR VARIABILITY OF SOLAR-GEOPHYSICAL PARAMETERS

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ABSTRACT. The power spectra of time series of fourteen different solar-geophysical parameters of different time scales and time periods are shown to follow the universal inverse power law form of the statistical normal distribution. Inverse power law form for the power spectra of temporal fluctuations are ubiquitous to real world dynamical systems and are recently identified as the temporal signature of self-organized criticality. The unique quantification for the inverse power law form for power spectra implies predictability of the total pattern of non-linear variability in time evolution of solar geophysical parameters.

1. Introduction

Long-range temporal correlations manifested as the inverse power law for the power spectra of temporal fluctuations are ubiquitous to real world dynamical systems and are recently identified as the temporal signatures of self-organized criticality (Bak, Tang and Wiesenfeld, 1988). Computations of power spectra have become standard in the analysis of time series data (MacDonald 1989), in particular, of solar-geophysical parameters for the identification of dominant periodicities for predictability studies. Conventional power spectrum analysis shows in general that dominant periodicities coexist with a broadband continuum spectrum for the temporal fluctuations, e.g., the 11-year and 22-year periodicities in sunspot numbers and the ENSO (El-Nino-Southern Oscillation) cycle in weather patterns. Geophysical phenomena in general exhibit the inverse power law form for the power spectrum of temporal fluctuations (Agnew, 1992). Identification of the universal inverse power law form for the power spectrum, namely "self-organized criticality" mentioned earlier implies ordered 'coexistence' of a continuum of fluctuations. Though the universal inverse power law form, namely v^{-B} where v is the frequency and B the exponent has been identified for the shape of the power spectrum of temporal fluctuations, the magnitude of B varies with time scales of parameters investigated. A universal quantification for the self-organized critical state, namely, the inverse power law form for the power spectra will enable prediction of the total pattern of fluctuations of all scales. In this paper it is shown that the power spectra of the temporal fluctuations of solar-geophysical parameters

29.RAYALASEEMA AREA 69043 SQ.KM NO OF STATION 4

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.0	30.2	4.9	14.0	46.6	65.4	71.7	39.1	123.8	47.9	102.8	13.8	30.2	65.5	300.0	164.5	560.2
1937	.0	16.2	2.0	98.9	25.7	60.6	105.2	42.0	151.7	199.2	89.3	10.2	16.2	126.6	359.5	298.7	801.0
1938	.0	3.9	4.4	2.4	49.3	96.0	63.2	273.4	227.2	14.8	1.1	12.0	3.9	56.1	659.8	27.9	747.7
1939	6.3	.0	33.6	62.2	6.6	57.3	37.7	79.2	176.9	144.1	118.7	1.0	6.3	102.4	351.1	263.8	723.6
1940	.2	.8	6.7	15.5	118.6	89.7	60.5	68.6	168.8	189.8	104.8	3.3	1.0	140.8	387.6	297.9	827.3
1941	5.9	2.0	.0	7.2	27.8	38.1	40.5	58.9	192.0	71.9	36.3	57.8	7.9	35.0	329.5	166.0	538.4
1942	.0	.0	.0	11.9	34.1	102.9	31.9	99.1	94.0	42.9	20.3	19.6	.0	46.0	327.9	82.8	456.7
1943	11.9	11.8	.0	20.1	176.6	32.5	66.3	103.1	127.3	209.6	71.8	2.0	23.7	196.7	329.2	283.4	833.0
1944	.0	3.3	64.5	5.6	15.3	155.2	139.9	61.5	122.7	149.4	88.3	13.3	3.3	85.4	479.3	251.0	819.0
1945	.0	.0	.0	22.9	37.4	30.0	204.0	134.3	105.6	68.7	54.2	2.1	.0	60.3	473.9	125.0	659.2
1946	4.4	7.6	3.5	30.3	45.2	49.3	57.8	95.1	133.0	138.3	193.6	123.6	12.0	79.0	335.2	455.5	881.7
1947	19.2	3.8	.5	19.0	30.6	64.9	120.7	211.6	201.1	62.9	21.9	28.7	23.0	50.1	598.3	113.5	784.9
1948	3.7	.0	3.3	24.3	32.9	37.3	61.8	96.3	100.9	61.6	149.1	7.4	3.7	60.5	296.3	218.1	578.6
1949	.0	.0	.0	12.6	81.2	109.3	109.7	147.8	261.3	98.8	40.6	.0	.0	93.8	628.1	139.4	861.3
1950	.0	6.3	1.9	.0	52.6	63.2	76.1	105.9	139.3	104.2	21.2	.0	6.3	54.5	384.5	125.4	570.7
1951	.0	.0	40.1	38.2	97.2	60.5	88.5	43.0	82.9	68.9	23.0	.0	.0	175.5	274.9	91.9	542.3
1952	.0	.1	.0	1.7	208.3	74.5	52.5	66.0	45.4	93.5	.0	89.5	.1	210.0	238.4	183.0	631.5
1953	.9	.0	.0	31.1	3.7	59.2	157.5	58.8	193.5	268.0	7.0	.0	.9	34.8	469.0	275.0	779.7
1954	5.4	.0	17.0	3.3	34.1	33.1	185.7	94.2	59.1	148.4	.0	23.0	5.4	54.4	372.1	171.4	603.3
1955	5.5	.0	8.0	8.7	115.8	37.2	112.7	222.0	138.4	109.5	39.1	16.1	5.5	132.5	510.3	164.7	813.0
1956	2.3	.2	.0	52.0	90.5	87.8	173.8	70.2	172.5	230.8	98.3	28.9	2.5	142.5	504.3	358.0	1007.3
1957	.0	.0	20.4	19.2	38.6	212.9	83.6	93.8	97.0	89.0	49.6	.0	.0	78.2	487.3	138.6	704.1
1958	1.2	3.2	1.8	32.2	26.0	57.9	79.9	233.8	111.9	185.8	54.3	12.6	4.4	60.0	483.5	252.7	800.6
1959	.0	3.5	.0	28.0	71.1	127.0	104.9	95.1	142.1	67.7	40.4	7.3	3.5	99.1	469.1	115.4	687.1
1960	.0	.0	3.9	10.8	26.7	76.3	118.2	13.0	334.8	51.2	149.0	2.3	.0	41.4	542.3	202.5	786.2
1961	1.5	5.1	1.5	.3	69.6	125.9	127.6	108.4	62.9	142.6	43.4	.7	6.6	71.4	424.8	186.7	689.5
1962	.0	2.9	4.6	27.0	110.9	63.4	50.7	121.0	130.6	166.3	32.1	82.4	2.9	142.5	365.7	280.8	791.9
1963	.0	.0	.6	48.0	33.7	66.4	100.4	183.1	80.7	87.0	.0	15.9	.0	82.3	430.6	102.9	615.8
1964	.0	.0	.0	5.8	4.7	87.4	199.7	93.6	299.0	67.5	79.9	6.4	.0	10.5	679.7	153.8	844.0
1965	.0	.8	.0	27.7	16.0	101.0	73.6	147.0	116.2	6.3	30.9	54.2	.8	43.7	437.8	91.4	573.7
1966	7.0	.0	.1	4.4	42.7	120.5	109.8	144.8	143.9	76.4	179.5	30.6	7.0	47.2	519.0	286.5	859.7
1967	10.2	.0	15.6	16.4	39.2	53.7	140.9	40.0	135.0	100.9	13.8	69.0	10.2	71.2	369.6	183.7	634.7
1968	.0	5.7	21.5	56.2	35.8	51.6	58.1	7.5	194.6	135.3	54.8	38.0	5.7	113.5	311.8	228.1	659.1
1969	.0	.0	.7	1.4	53.0	80.2	106.6	175.1	32.6	172.7	64.7	18.1	.0	55.1	394.5	255.5	705.1
1970	.0	.0	.0	3.8	72.7	68.3	93.3	202.1	219.1	108.3	21.0	.0	.0	76.5	582.8	129.3	788.6
1971	.0	3.2	12.5	48.2	38.9	49.4	70.4	85.4	66.6	176.4	22.9	8.1	3.2	99.6	271.8	207.4	582.0
1972	1.2	.0	.0	13.7	77.8	100.5	31.1	16.9	174.9	192.1	48.9	58.3	1.2	91.5	323.4	299.3	715.4
1973	.0	.0	.0	.8	22.7	39.6	67.3	131.6	145.2	195.1	26.8	11.4	.0	23.5	383.7	233.3	640.5
1974	.0	.0	.0	2.8	111.6	68.0	84.2	90.3	254.2	143.9	26.2	.0	.0	114.4	496.7	170.1	781.2
1975	.9	.0	16.4	2.2	21.7	63.4	142.4	97.0	164.5	344.2	71.6	8.2	.9	40.3	467.3	424.0	932.5
1976	.8	.0	.0	16.6	37.0	70.1	73.0	208.8	56.9	92.8	95.4	.8	.8	53.6	408.8	189.0	652.2
1977	.0	.6	1.7	34.7	117.0	100.2	150.7	139.6	46.8	148.7	138.2	.6	.6	153.4	437.3	287.5	878.8
1978	.0	17.7	.5	22.5	42.0	66.4	151.2	99.0	250.1	79.7	101.7	57.2	17.7	65.0	566.7	238.6	888.0
1979	.0	19.9	.3	2.9	123.9	52.6	57.2	48.0	172.3	47.6	184.0	3.8	19.9	127.1	330.1	235.4	712.5
1980	.0	.0	1.4	11.0	34.5	59.3	68.7	114.2	69.1	37.6	81.4	11.6	.0	46.9	311.3	130.6	488.8
1981	1.0	.0	25.2	29.8	30.1	71.5	90.3	103.5	206.1	137.8	35.3	7.0	1.0	85.1	471.4	180.1	737.6
1982	.0	.0	1.9	19.7	23.8	114.7	96.5	38.4	146.3	101.0	124.8	8.0	.0	45.4	395.9	233.8	675.1
1983	.0	.0	17.0	8.4	54.7	84.7	106.3	202.7	296.4	76.5	20.8	12.3	.0	80.1	690.1	109.6	879.8
1984	.1	31.5	55.4	15.2	5.9	31.6	143.5	18.1	97.5	75.6	34.4	46.3	31.6	76.5	290.7	156.3	555.1
1985	10.4	.0	2.0	8.9	15.3	56.3	139.7	93.1	47.4	162.8	71.2	15.5	10.4	26.2	336.5	249.5	622.6
1986	29.4	22.1	.0	5.8	12.7	76.1	69.1	51.5	150.4	68.2	52.8	5.7	51.5	18.5	347.1	126.7	543.8
1987	3.7	.0	15.5	13.8	45.7	54.1	20.9	148.2	102.4	118.3	151.0	55.7	3.7	75.0	325.6	325.0	729.3
1988	.0	1.2	7.5	73.4	95.0	30.9	170.6	258.9	166.8	28.5	15.0	18.8	1.2	175.9	627.2	62.3	866.6
1989	.0	.0	40.6	1.2	25.0	37.5	350.6	23.2	199.8	26.4	59.0	11.3	.0	66.8	611.1	96.7	774.6
1990	1.1	1.3	15.4	4.8	98.2	50.9	52.6	111.4	165.4	136.6	103.9	2.8	2.4	118.4	380.3	243.3	744.4
MEAN	5.8	4.3	6.9	16.9	49.0	68.5	94.8	107.7	151.0	115.2	69.2	19.7	10.1	72.8	422.1	204.1	709.0
PER ANN	.8	.6	1.0	2.4	6.9	9.7	13.4	15.2	21.3	16.2	9.8	2.8	1.4	10.3	59.5	28.8	100.0
STD	12.6	9.7	12.3	17.2	37.4	32.7	52.5	66.9	69.1	63.2	54.7	24.3	15.9	40.8	121.4	85.5	153.1
COV	217.2	226.2	178.5	102.2	76.2	47.7	55.4	62.1	45.7	54.9	79.1	123.6	157.5	56.1	28.8	41.9	21.6
1991	1.9	1.0	.0	14.5	33.6	199.9	80.5	93.6	110.4	162.1	147.8	.7	2.9	48.1	484.4	310.6	846.0
1992	1.3	.0	.0	8.9	39.9	65.1	100.8	101.2	100.7	81.1	112.6	.2	1.3	48.8	367.8	193.9	611.8
1993	.0	.0	15.7	20.5	46.0	38.8	114.6	163.5	137.4	209.5	94.1	65.0	.0	82.2	454.3	368.6	905.1
1994	2.0	14.8	.0	16.8	27.9	43.2	93.0	102.5	35.8	216.7	82.7	15.3	16.8	44.7	274.5	314.7	650.7

30.TAMIL NADU AREA 130068 SQ.KM NO OF STATION 15

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	56.8	18.3	34.0	35.9	41.1	43.0	53.6	51.0	131.5	141.8	258.5	28.5	75.1	111.0	279.1	428.8	894.0
1872	1.6	8.4	10.8	53.8	107.7	57.5	77.7	101.9	117.6	142.5	301.1	87.3	10.0	172.3	354.7	530.9	1067.9
1873	.3	86.8	6.8	78.6	48.6	13.6	43.4	93.2	83.9	220.6	81.2	28.6	87.1	134.0	234.1	330.4	785.6
1874	.0	19.0	2.7	36.0	130.2	63.8	67.3	71.0	150.1	167.2	155.8	42.6	19.0	168.9	352.2	365.6	905.7
1875	3.7	4.2	13.8	54.0	62.1	52.1	35.0	115.5	81.5	214.6	80.0	32.5	7.9	129.9	284.1	327.1	749.0
1876	.6	.0	17.9	30.5	72.5	32.4	58.6	84.4	67.3	43.5	77.1	43.0	.6	120.9	242.7	163.6	527.8
1877	.8	.0	14.9	13.5	83.9	62.4	14.0	33.7	170.4	276.5	191.0	197.9	.8	112.3	280.5	665.4	1059.0
1878	20.6	.0	.4	72.6	86.9	61.7	63.6	135.6	112.9	93.7	93.2	34.1	20.6	159.9	373.8	221.0	775.3
1879	17.9	10.7	76.9	16.9	60.6	50.9	136.8	96.2	84.4	167.6	85.9	50.0	28.6	154.4	368.3	303.5	854.8
1880	11.2	9.6	2.8	44.0	54.7	25.1	38.9	125.1	59.5	200.9	339.3	98.3	20.8	101.5	248.6	638.5	1009.4
1881	15.2	.1	8.8	2.0	71.6	26.0	31.9	140.2	131.2	86.6	162.3	88.2	15.3	82.4	329.3	337.1	764.1
1882	38.1	3.6	7.3	32.5	90.1	42.2	48.2	118.6	69.8	145.4	266.2	52.4	41.7	129.9	278.8	464.0	914.4
1883	1.6	36.3	15.8	10.7	92.2	52.4	53.5	97.0	58.9	247.1	184.9	89.9	37.9	118.7	261.8	521.9	940.3
1884	12.0	.0	6.8	9.8	50.7	41.8	18.4	95.3	54.7	290.0	314.3	254.5	12.0	67.3	210.2	858.8	1148.3
1885	4.1	.0	16.2	6.1	50.1	68.8	31.1	42.8	112.5	183.5	198.1	136.6	4.1	72.4	255.2	518.2	849.9
1886	14.8	.3	15.5	12.0	179.3	73.0	110.3	147.3	123.1	143.1	117.5	32.6	15.1	206.8	453.7	293.2	968.8
1887	.1	5.2	27.2	42.1	55.2	77.9	41.2	109.3	84.5	299.3	212.7	176.9	5.3	124.5	312.9	688.9	1131.6
1888	2.0	.0	1.5	20.3	118.0	56.2	41.8	72.2	91.5	235.5	210.9	137.9	2.0	139.8	261.7	584.3	987.8
1889	6.5	.8	16.3	62.9	52.1	35.0	116.7	114.9	127.9	148.5	58.3	71.2	7.3	131.3	394.5	278.0	811.1
1890	10.1	4.8	17.0	47.1	55.1	82.6	78.4	91.8	96.3	217.4	114.9	23.5	14.9	119.2	349.1	355.8	839.0
1891	10.0	53.1	19.5	39.9	33.2	38.5	17.0	53.3	69.6	340.6	117.7	115.1	63.1	92.6	178.4	573.4	907.5
1892	2.1	16.5	.5	57.6	42.8	90.2	72.8	196.3	64.4	128.9	24.8	32.9	18.6	100.9	423.7	186.6	729.8
1893	8.1	16.2	62.0	40.1	58.8	78.1	122.1	39.9	59.3	167.3	369.6	25.9	24.3	160.9	299.4	562.8	1047.4
1894	14.8	22.5	39.6	42.0	43.3	22.4	57.7	121.6	104.1	171.2	136.1	50.1	37.3	124.9	305.8	357.4	825.4
1895	1.4	.0	.2	58.7	44.9	29.5	57.8	125.0	154.2	317.1	103.9	129.4	1.4	103.8	366.5	550.4	1022.1
1896	8.8	.0	6.5	2.9	49.4	44.6	38.3	54.5	129.3	131.6	297.9	186.1	8.8	58.8	266.7	615.6	949.9
1897	5.1	58.3	5.6	35.4	61.8	58.7	41.8	135.9	217.5	92.5	83.4	21.5	63.4	102.8	453.9	197.4	817.5
1898	13.3	13.5	.5	55.3	66.3	30.1	39.2	89.0	179.3	239.6	299.5	138.7	26.8	122.1	337.6	677.8	1164.3
1899	6.8	11.3	2.0	178.6	41.0	19.1	25.7	28.2	117.1	249.1	53.1	33.9	18.1	221.6	190.1	336.1	765.9
1900	24.8	1.1	.6	114.6	55.4	34.7	80.9	61.2	140.1	181.8	117.7	85.5	25.9	170.6	316.9	385.0	898.4
1901	20.8	54.4	13.2	47.6	62.1	40.6	35.2	67.2	186.6	121.5	224.7	118.5	75.2	122.9	329.6	464.7	992.4
1902	72.1	12.3	29.4	16.8	76.4	62.9	57.1	121.2	114.9	291.3	192.0	155.3	84.4	122.6	356.1	638.6	1201.7
1903	24.1	3.4	.1	16.6	126.5	53.2	61.5	101.8	213.9	129.0	194.3	202.2	27.5	143.2	430.4	525.5	1126.6
1904	31.1	.0	.2	10.9	95.2	36.9	84.0	30.2	68.4	154.3	23.7	51.9	31.1	106.3	219.5	229.9	586.8
1905	6.0	5.5	8.3	63.7	65.4	49.1	39.8	112.4	57.0	257.5	117.0	3.6	11.5	137.4	258.3	378.1	785.3
1906	53.3	18.2	21.8	4.4	26.3	48.5	60.3	189.5	71.1	159.2	208.0	159.2	71.5	52.5	369.4	526.4	1019.8
1907	14.2	1.0	14.5	73.4	44.1	40.6	69.1	46.0	115.9	153.1	224.0	56.9	15.2	132.0	271.6	434.0	852.8
1908	12.1	30.1	26.3	25.5	44.3	32.1	41.5	56.0	185.2	277.5	41.9	15.3	42.2	96.1	314.8	334.7	787.8
1909	122.5	11.9	2.9	78.0	125.1	33.3	39.8	249.2	140.6	147.5	75.8	16.0	134.4	206.0	462.9	239.3	1042.6
1910	7.8	21.2	.6	22.3	42.6	53.5	163.3	171.2	78.3	274.0	139.1	1.2	29.0	65.5	466.3	414.3	975.1
1911	1.7	.6	12.1	28.0	53.1	60.2	54.6	34.7	136.8	125.9	167.1	146.6	2.3	93.2	286.3	439.6	821.4
1912	7.7	2.6	2.6	30.9	49.2	51.0	31.5	85.5	116.2	269.5	274.8	29.0	10.3	82.7	284.2	573.3	950.5
1913	3.4	3.6	.9	22.5	63.0	19.7	48.2	52.2	116.7	237.4	232.0	142.8	7.0	86.4	236.8	612.2	942.4
1914	5.4	.5	1.9	33.1	33.6	37.1	37.8	94.0	122.7	291.1	147.7	145.2	5.9	68.6	291.6	584.0	950.1
1915	31.4	15.6	32.7	35.4	44.3	62.4	109.2	98.9	139.1	92.1	248.0	55.5	47.0	112.4	409.6	395.6	964.6
1916	.0	4.5	.9	21.1	58.1	25.8	187.3	112.6	102.2	227.0	156.0	46.1	4.5	80.1	427.9	429.1	941.6
1917	9.7	17.5	25.9	6.0	66.3	63.8	48.1	186.5	145.3	100.9	167.6	39.8	27.2	98.2	443.7	308.3	877.4
1918	70.3	7.2	22.8	4.6	76.2	40.9	36.0	49.7	43.2	48.8	331.2	108.2	77.5	103.6	169.8	488.2	839.1
1919	14.5	.3	14.2	25.7	78.1	51.4	87.5	48.9	149.7	151.2	239.0	128.4	14.8	118.0	337.5	518.6	988.9
1920	150.1	2.0	.9	55.1	40.2	39.6	30.6	75.9	149.7	160.6	449.6	3.1	152.1	96.2	295.8	613.3	1157.4
1921	162.3	.0	.7	49.6	31.6	55.6	120.9	136.3	87.7	223.2	107.0	72.1	162.3	81.9	400.5	402.3	1047.0
1922	41.9	24.4	3.4	27.8	87.7	51.9	49.7	82.7	64.1	259.5	320.0	72.0	66.3	118.9	248.4	651.5	1085.1
1923	169.4	1.1	34.7	18.6	26.5	34.0	39.6	42.3	142.1	282.2	51.4	167.2	170.5	79.8	258.0	500.8	1009.1
1924	28.3	.5	29.1	34.4	55.0	53.2	131.3	83.0	170.3	123.0	165.0	48.4	28.8	118.5	437.8	336.4	921.5
1925	24.0	1.7	61.7	30.2	75.1	44.5	44.5	110.2	69.5	165.4	243.0	179.2	25.7	167.0	268.7	587.6	1049.0
1926	71.2	3.4	21.7	20.8	59.5	33.7	52.7	63.1	116.8	152.2	133.0	25.8	74.6	102.0	266.3	311.0	753.9
1927	17.7	24.4	26.2	60.1	67.5	83.1	42.9	58.9	97.7	98.8	152.0	37.0	42.1	153.8	282.6	287.8	766.3
1928	27.7	48.5	8.6	37.3	48.0	27.1	56.6	78.5	52.3	186.7	194.1	105.9	76.2	93.9	214.5	486.7	871.3
1929	15.2	38.6	20.3	104.9	39.7	46.2	36.2	55.7	118.1	151.8	191.6	98.7	53.8	164.9	256.2	442.1	917.0
1930	53.4	60.9	14.0	18.6	166.9	53.6	27.6	59.5	78.8	429.1	215.9	60.4	114.3	199.5	219.5	705.4	1238.7
1931	34.2	.0	.5	62.8	45.6	36.3	65.5	59.7	99.6	117.8	186.0	353.3	34.2	108.9	261.1	657.1	1061.3
1932	1.6	27.8	6.8	55.3	107.4	40.3	35.1	133.1	73.1	214.9	240.8	79.8	29.4	169.5	281.6	535.5	1016.0
1933	1.6	3.3	48.9	44.7	91.3	28.6	46.3	146.1	70.9	203.0	96.2	102.0	4.9	184.9	291.9	401.2	882.9
1934	92.0	.0	8.0	20.6	50.2	61.6	49.1	52.3	26.8	322.2	118.1	21.1	92.0	78.8	189.8	461.4	822.0
1935	47.4	1.4	7.7	52.9	11.8	56.7	32.0	138.9	64.0	167.3	127.8	83.9	48.8	72.4	291.6	379.0	791.8

can be quantified in terms of the universal and unique characteristics of the statistical normal distribution.

2. Data and Analysis

The following 14 sets of solar-geophysical parameters of different time-scales and time periods are used for the study.

1. 300 daily A_p index, Nov. 89-Sept.90
(Solar-geophysical data prompt reports. Dec. 1990, No.556- Part I, National geophysical data center, Boulder, Colorado, USA).

2. 20 3-year means of annual sunspot number, 1793-1852.
(Solar-terrestrial physics and meteorology : a working document, 1975, SCOSTEP, Washington, D.C., USA)

3. 24 6-hour means of surface atmospheric electric field at Pensacola, Florida, USA, 19-22 June 1960.
(Trent and Anderson, 1965).

4. 20 6-day means of total columnar ozone for Cairo, March-June 1990
(Ozone data for the world, March-June 1990, Atmospheric environment service, Department of the environment, Canada)

5. 50 24-hour means of hourly equatorial DST values Jan.-Feb.1989.
(Solar-geophysical data prompt reports, November 1990, No.555-Part I, National geophysical data center, Boulder, Colorado, USA).

6. 20 6-hour means of air temperature at ground level, Bombay, India, 1-4 Jan. 1966 (Magnetic, meteorological and atmospheric electric observations made at govern ment observatories at Bombay, Alibag, Annamalainagar and Trivandrum in the year 1966, India Meteorological Department, Delhi, India).

7. 30 3-day means of vorticity area index (northern hemi sphere), Jan.-Mar. 1946.
(Solar-terrestrial physics and meteorology : working document II, 1977, SCOSTEP, Washington, D.C., USA).

8. 36 10-day means of daily sunspot number 1 Jan. - 26 Dec. 1989
(Solar-geophysical data prompt reports.January 1990, No.545-Part I, National geophysical data center, Boulder, Colorado, USA).

9. 25 Seasonal mean (September-November) southern oscilla-tion index, 1961-1985. These are homogenized Darwin

30.TAMIL NADU AREA 130068 SQ.KM NO OF STATION 15

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	2.2	45.6	53.0	23.6	61.8	44.5	65.7	47.3	116.7	81.9	253.6	57.7	47.8	138.4	274.2	393.2	853.6
1937	12.4	8.7	19.5	93.1	40.6	33.7	35.8	109.4	100.7	190.1	283.4	26.6	21.1	153.2	279.6	500.1	954.0
1938	.3	47.7	50.6	34.0	31.7	45.1	86.0	115.8	114.8	92.9	50.6	51.4	48.0	116.3	361.7	194.9	720.9
1939	43.6	6.1	16.9	136.7	58.6	47.2	21.0	82.4	99.8	252.8	297.7	9.6	49.7	212.2	250.4	560.1	1072.4
1940	.6	.7	9.2	66.8	115.8	85.8	37.8	54.5	138.7	148.3	377.3	84.2	1.3	191.8	316.8	609.8	1119.7
1941	25.7	2.3	.0	57.5	65.8	45.2	49.9	60.8	150.2	172.8	195.9	106.9	28.0	123.3	306.1	475.6	933.0
1942	.2	.9	7.2	77.0	48.2	32.9	26.4	107.8	141.5	131.2	67.9	183.7	1.1	132.4	308.6	382.8	824.9
1943	135.2	17.8	6.0	63.4	229.9	33.1	42.0	76.1	63.1	306.8	122.1	56.1	153.0	299.3	214.3	485.0	1151.6
1944	14.9	20.8	57.6	26.3	43.2	77.3	56.2	117.0	133.5	177.2	288.9	128.7	35.7	127.1	384.0	594.8	1141.6
1945	2.5	2.6	6.1	66.3	37.4	22.2	50.5	89.4	62.7	145.3	180.0	9.9	5.1	109.8	224.8	335.2	674.9
1946	18.0	.0	42.7	39.0	68.5	35.6	40.9	67.4	149.3	170.8	332.4	298.5	18.0	150.2	293.2	801.7	1263.1
1947	71.4	18.5	48.2	96.5	36.6	41.9	93.0	92.9	132.1	198.0	30.1	11.3	89.9	181.3	359.9	239.4	870.5
1948	48.4	6.8	14.0	20.2	74.9	32.1	56.8	64.7	75.5	142.4	225.1	31.8	55.2	109.1	229.1	399.3	792.7
1949	11.0	1.2	.1	64.1	84.0	69.1	109.5	169.4	72.5	127.7	101.6	6.3	12.2	148.2	420.5	235.6	816.5
1950	1.4	63.5	8.8	9.1	46.4	18.1	37.7	133.4	62.1	130.7	99.4	46.1	64.9	64.3	251.3	276.2	656.7
1951	11.8	.3	19.4	123.9	65.7	30.7	86.7	88.4	101.1	89.4	251.1	6.5	12.1	209.0	306.9	347.0	875.0
1952	15.8	41.7	5.2	11.8	47.9	24.4	73.8	71.9	33.2	103.4	33.5	165.8	57.5	64.9	203.3	302.7	628.4
1953	15.1	11.4	4.8	113.8	46.1	69.9	91.4	61.0	126.9	270.9	107.0	19.6	26.5	164.7	349.2	397.5	937.9
1954	79.9	2.3	67.0	50.6	73.2	29.3	92.0	136.8	39.5	263.9	24.2	121.8	82.2	190.8	297.6	409.9	980.5
1955	33.4	3.8	4.4	111.7	160.7	30.4	68.5	66.5	124.6	157.9	116.7	185.6	37.2	276.8	290.0	460.2	1064.2
1956	22.3	.3	.8	24.3	34.4	86.5	36.3	97.0	125.9	230.4	217.7	53.6	22.6	59.5	345.7	501.7	929.5
1957	1.0	5.7	13.1	13.6	78.8	51.2	58.1	46.4	73.9	219.0	225.7	80.8	6.7	105.5	229.6	525.5	867.3
1958	12.0	8.7	24.6	54.4	109.4	23.8	29.8	133.3	68.7	157.4	155.1	24.8	20.7	188.4	255.6	337.3	802.0
1959	4.4	36.5	.0	59.2	56.4	74.1	42.3	55.8	93.8	168.7	210.9	64.9	40.9	115.6	266.0	444.5	867.0
1960	5.6	10.2	7.9	46.2	56.1	33.6	150.7	52.9	96.2	122.4	380.0	23.9	15.8	110.2	333.4	526.3	985.7
1961	81.6	13.3	4.6	18.9	81.0	77.3	81.8	121.8	115.1	152.9	129.7	55.7	94.9	104.5	396.0	338.3	933.7
1962	14.7	16.5	16.5	41.3	101.0	61.2	39.4	118.9	123.1	293.2	66.2	61.4	31.2	158.8	342.6	420.8	953.4
1963	90.9	3.1	36.0	39.1	32.3	56.2	107.3	82.2	130.4	147.9	231.5	141.3	94.0	107.4	376.1	520.7	1098.2
1964	1.7	.3	13.5	8.0	57.7	31.1	160.7	96.1	83.4	213.4	184.3	77.8	2.0	79.2	371.3	475.5	928.0
1965	5.8	10.1	4.0	53.4	32.3	23.2	44.7	140.9	95.7	135.9	142.7	210.6	15.9	89.7	304.5	489.2	899.3
1966	18.4	4.5	10.3	31.9	76.6	64.0	57.5	167.9	150.3	300.4	222.1	123.1	22.9	118.8	439.7	645.6	1227.0
1967	38.5	.6	31.2	21.5	57.1	72.5	83.1	69.6	77.0	213.8	167.9	174.2	39.1	109.8	302.2	555.9	1007.0
1968	2.0	4.9	36.8	99.5	30.4	48.8	35.3	54.2	112.6	123.8	141.6	70.3	6.9	166.7	250.9	335.7	760.2
1969	1.9	13.2	1.2	28.6	46.5	15.0	38.5	124.8	27.9	292.4	180.9	118.6	15.1	76.3	206.2	591.9	889.5
1970	11.6	10.9	6.5	68.6	82.5	38.9	64.1	82.5	76.2	162.4	244.6	15.8	22.5	157.6	261.7	422.8	864.6
1971	20.1	8.7	38.7	45.0	81.5	27.1	59.8	129.4	112.2	203.3	71.0	189.4	28.8	165.2	328.5	463.7	986.2
1972	4.7	.1	.0	10.0	153.6	56.6	44.7	37.2	182.4	254.3	125.7	193.3	4.8	163.6	320.9	573.3	1062.6
1973	.0	.6	2.1	10.1	50.5	44.3	79.3	65.1	140.6	221.1	75.7	151.1	.6	62.7	329.3	447.9	840.5
1974	1.2	27.0	13.1	32.7	79.0	53.0	61.4	38.9	180.5	142.8	67.0	23.6	28.2	124.8	333.8	233.4	720.2
1975	3.7	2.1	48.7	13.1	66.5	25.2	128.4	102.0	135.6	155.9	163.8	44.9	5.8	128.3	391.2	364.6	889.9
1976	1.1	.0	20.8	43.2	39.4	52.1	63.5	133.5	71.9	163.0	259.6	49.3	1.1	103.4	321.0	471.9	897.4
1977	1.3	19.0	13.7	38.9	94.6	48.5	49.7	135.4	98.7	370.5	358.1	22.3	20.3	147.2	332.3	750.9	1250.7
1978	1.8	14.6	1.0	42.5	55.6	24.9	69.6	61.8	158.8	154.7	261.7	195.4	16.4	99.1	315.1	611.8	1042.4
1979	.7	38.4	13.3	22.2	39.4	37.3	61.0	53.6	177.1	159.4	403.7	66.2	39.1	74.9	329.0	629.3	1072.3
1980	.9	.0	3.6	33.6	42.2	23.2	56.1	66.6	52.4	134.2	198.8	85.2	.9	79.4	198.3	418.2	696.8
1981	18.3	2.5	21.0	22.7	76.7	36.5	104.9	75.1	181.6	258.7	132.5	75.5	20.8	120.4	398.1	466.7	1006.0
1982	.4	.0	7.3	28.4	47.0	44.3	37.5	32.5	70.9	114.5	243.5	47.0	.4	82.7	185.2	405.0	673.3
1983	.2	.0	1.1	1.7	88.2	53.3	74.0	112.4	161.8	134.6	110.1	324.9	.2	91.0	401.5	569.6	1062.3
1984	46.7	189.8	82.1	53.6	22.7	17.5	139.0	40.5	125.2	156.1	121.9	74.8	236.5	158.4	322.2	352.8	1069.9
1985	89.9	10.8	9.5	25.9	21.5	58.5	58.2	105.8	147.8	82.3	211.2	112.4	100.7	56.9	370.3	405.9	933.8
1986	52.0	22.2	22.7	17.9	40.8	30.1	44.8	84.0	96.4	134.6	94.2	60.5	74.2	81.4	255.3	289.3	700.2
1987	11.2	.4	18.4	15.8	39.0	49.8	16.2	67.9	121.1	215.4	133.7	166.5	11.6	73.2	255.0	515.6	855.4
1988	.3	1.2	30.2	77.5	64.4	39.9	105.8	122.8	152.7	81.7	128.4	24.8	1.5	172.1	421.2	234.9	829.7
1989	5.2	.0	30.4	29.1	39.4	35.5	123.5	71.7	137.8	133.5	141.9	36.5	5.2	98.9	368.5	311.9	784.5
1990	82.1	4.2	26.4	21.5	78.2	14.1	41.4	78.4	108.5	203.3	143.0	42.3	86.3	126.1	242.4	388.6	843.4
MEAN	24.6	13.6	16.9	42.0	65.7	45.4	62.8	91.6	109.4	185.1	177.4	87.9	38.2	124.6	309.3	450.4	922.6
PER ANN	2.7	1.5	1.8	4.6	7.1	4.9	6.8	9.9	11.9	20.1	19.2	9.5	4.1	13.5	33.5	48.8	100.0
STD	34.8	23.2	17.6	30.6	33.8	17.6	34.0	40.4	40.4	71.2	91.4	69.6	41.2	44.7	70.2	139.6	145.8
COV	141.2	170.4	104.2	72.8	51.4	38.8	54.1	44.1	37.0	38.4	51.5	79.2	107.7	35.8	22.7	31.0	15.8
1991	25.3	5.1	9.7	32.9	23.7	121.9	62.8	65.0	123.1	232.3	196.0	25.6	30.4	66.3	372.8	453.9	923.4
1992	5.2	.0	.0	21.8	55.5	52.3	60.3	36.5	150.4	125.0	302.8	60.1	5.2	77.3	299.5	487.9	869.9
1993	.9	8.3	9.1	6.0	49.8	68.0	52.6	80.8	76.3	207.8	287.7	248.9	9.2	64.9	277.7	744.4	1096.2
1994	6.2	39.3	6.7	41.3	75.5	16.2	59.8	48.0	66.4	190.6	212.5	45.0	45.5	123.5	190.4	448.1	807.5

31.COASTAL KARNATAKA AREA 18717 SQ.KM NO OF STATION 2

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	85.5	20.3	.0	37.0	191.6	815.7	1006.2	309.4	295.7	157.4	66.3	.0	105.8	228.6	2427.0	223.7	2985.1
1872	.0	.0	.0	7.5	132.9	1101.5	1521.5	697.3	186.3	83.0	12.2	31.3	.0	140.4	3506.6	126.5	3773.5
1873	.0	5.9	.0	10.0	117.9	941.5	598.3	346.6	232.2	132.2	.0	8.9	5.9	127.9	2118.6	141.1	2393.5
1874	.0	.2	.0	40.6	403.6	925.8	1445.5	470.8	563.7	188.9	37.9	5.1	.2	444.2	3405.8	231.9	4082.1
1875	.0	.0	19.5	28.5	42.1	863.0	969.8	572.3	226.0	40.8	3.5	10.9	.0	90.1	2631.1	55.2	2776.4
1876	.0	.0	4.0	30.9	20.0	892.5	1121.1	362.2	170.1	17.6	1.1	.0	.0	54.9	2545.9	18.7	2619.5
1877	.0	.0	.0	6.4	20.2	801.9	440.0	698.6	363.0	363.6	26.4	18.0	.0	26.6	2303.5	408.0	2738.1
1878	.0	.0	.5	55.5	109.1	1131.6	880.8	1360.4	892.0	218.9	130.0	5.0	.0	165.1	4264.8	353.9	4783.8
1879	.0	.0	.5	4.0	622.8	772.6	757.2	861.6	213.6	290.8	67.7	3.7	.0	627.3	2605.0	362.2	3594.5
1880	.0	.0	.0	14.4	78.3	908.9	945.6	234.2	282.9	135.4	67.8	25.2	.0	92.7	2371.6	228.4	2692.7
1881	.0	.0	.0	.2	95.4	536.0	514.7	742.1	287.6	58.6	206.4	.0	.0	95.6	2080.4	265.0	2441.0
1882	14.9	.0	.0	6.5	185.0	932.0	1256.5	466.0	303.1	119.4	31.1	.0	14.9	191.5	2957.6	150.5	3314.5
1883	.0	.0	.2	59.1	73.1	995.9	1206.9	516.5	346.7	196.1	81.3	4.8	.0	132.4	3066.0	282.2	3480.6
1884	.0	.0	.0	5.7	5.3	592.9	632.3	792.0	352.4	118.0	31.8	18.6	.0	11.0	2369.6	168.4	2549.0
1885	.0	.0	.0	.0	19.9	941.6	1120.8	464.0	177.8	284.0	46.7	8.0	.0	19.9	2704.2	338.7	3062.8
1886	.0	.0	.0	.0	184.2	950.3	1310.2	354.4	166.6	236.4	52.8	.0	.0	184.2	2781.5	289.2	3254.9
1887	.0	.0	.2	14.3	69.5	1364.9	824.4	488.2	367.1	313.8	83.4	.4	.0	84.0	3044.6	397.6	3526.2
1888	11.8	.0	.0	18.5	103.0	1376.6	802.3	617.2	73.8	71.9	91.4	.6	11.8	121.5	2869.9	163.9	3167.1
1889	10.3	.0	.0	.0	125.0	1602.5	1180.2	526.2	574.7	287.2	3.4	35.5	10.3	125.0	3883.6	326.1	4345.0
1890	.0	.0	2.6	45.2	143.7	911.7	1114.7	453.2	134.2	76.7	44.9	.0	.0	191.5	2613.8	121.6	2926.9
1891	.0	1.3	2.8	6.4	4.7	650.1	802.6	338.9	235.1	175.0	29.9	.0	1.3	13.9	2026.7	204.9	2246.8
1892	.0	.0	.0	67.9	409.7	520.9	1156.2	1047.2	321.5	366.1	69.9	.0	.0	477.6	3045.8	436.0	3959.4
1893	.0	.0	.0	45.0	276.8	784.8	792.1	415.7	308.4	214.9	75.3	.0	.0	321.8	2301.0	290.2	2913.0
1894	.0	3.6	10.4	38.4	4.0	663.0	812.6	748.5	293.2	222.9	19.9	.0	3.6	52.8	2517.3	242.8	2816.5
1895	.0	.0	.0	4.6	20.5	754.1	1396.3	496.6	99.3	156.1	26.6	.0	.0	25.1	2746.3	182.7	2954.1
1896	.0	.0	.0	13.5	177.1	1018.5	602.8	1009.4	89.2	75.4	27.8	19.9	.0	190.6	2719.9	123.1	3033.6
1897	.0	1.1	.0	15.8	33.5	1117.4	1316.1	563.1	413.5	223.6	.1	.0	1.1	49.3	3410.1	223.7	3684.2
1898	.0	5.6	.0	8.6	70.7	1000.8	1003.1	421.9	536.5	202.8	87.2	2.5	5.6	79.3	2962.3	292.5	3339.7
1899	.0	.0	.0	206.0	119.1	860.1	220.6	371.5	149.6	104.9	1.3	.2	.0	325.1	1601.8	106.4	2033.3
1900	.0	.0	.0	3.0	5.1	1217.0	1329.5	570.7	374.6	30.2	4.9	8.4	.0	8.1	3491.8	43.5	3543.4
1901	1.0	1.7	2.0	57.7	54.1	1395.8	782.1	550.5	75.8	71.1	117.7	15.3	2.7	113.8	2804.2	204.1	3124.8
1902	.0	.0	4.1	2.4	50.9	874.7	1539.0	414.6	680.3	143.5	51.0	54.8	.0	57.4	3508.6	249.3	3815.3
1903	.0	.0	.0	.0	233.9	729.1	1380.8	660.6	268.8	134.7	52.6	.9	.0	233.9	3039.3	188.2	3461.4
1904	10.4	.0	.0	29.8	66.8	1311.3	1005.2	348.5	253.5	143.7	.0	.0	10.4	96.6	2918.5	143.7	3169.2
1905	.0	.0	.0	.0	118.9	1126.5	493.2	661.3	143.4	279.5	38.4	.0	.0	118.9	2424.4	317.9	2861.2
1906	1.6	.0	.0	.0	36.8	724.3	1123.3	478.8	228.9	71.6	21.5	27.8	1.6	36.8	2555.3	120.9	2714.6
1907	3.2	.0	.0	93.2	8.7	869.9	970.8	633.2	169.9	85.9	51.2	5.9	3.2	101.9	2643.8	143.0	2891.9
1908	.0	.0	.0	33.0	12.6	944.5	1652.5	773.6	161.2	45.2	.3	.0	.0	45.6	3531.8	45.5	3622.9
1909	2.4	.0	.0	.0	394.8	1068.7	1120.5	291.6	304.1	22.1	35.4	.0	2.4	394.8	2784.9	57.5	3239.6
1910	.0	.0	10.4	.4	9.9	1281.8	525.7	496.6	337.1	79.7	123.0	.0	.0	20.7	2641.2	202.7	2864.6
1911	.0	.0	.0	.2	58.2	748.2	713.1	493.3	123.8	92.4	73.8	19.1	.0	58.4	2078.4	185.3	2322.1
1912	.0	.0	.0	1.3	43.4	859.4	1161.6	733.5	106.5	248.7	84.4	.0	.0	44.7	2861.0	333.1	3238.8
1913	.0	.0	.0	9.0	87.1	802.4	883.2	301.8	187.7	358.8	.3	10.3	.0	96.1	2175.1	369.4	2640.6
1914	.0	.0	.0	1.1	27.8	865.5	1400.3	932.0	340.7	154.9	58.7	46.9	.0	28.9	3538.5	260.5	3827.9
1915	.0	2.2	.0	13.9	51.7	901.7	704.0	334.3	373.1	147.0	105.4	1.9	2.2	65.6	2313.1	254.3	2635.2
1916	.0	.0	.0	4.4	92.3	1105.9	758.6	434.2	677.5	167.3	171.1	.0	.0	96.7	2976.2	338.4	3411.3
1917	.0	42.6	.5	.5	47.9	1253.9	831.3	600.6	440.6	301.1	46.9	.0	42.6	48.9	3126.4	348.0	3565.9
1918	.2	.0	.0	3.1	793.4	608.3	463.5	404.6	125.3	47.1	128.7	9.7	.2	796.5	1601.7	185.5	2583.9
1919	.0	.0	.0	.0	107.4	595.8	1119.1	532.7	252.2	214.2	128.1	22.4	.0	107.4	2499.8	364.7	2971.9
1920	.0	.0	.4	76.7	9.6	971.7	721.8	455.2	148.6	123.4	55.4	.0	.0	86.7	2297.3	178.8	2562.8
1921	10.6	.0	.0	18.7	31.3	720.8	849.2	816.5	279.4	137.3	26.9	.0	10.6	50.0	2665.9	164.2	2890.7
1922	.0	.0	.0	57.4	132.5	870.0	1236.0	434.0	260.3	78.3	67.0	.0	.0	189.9	2800.3	145.3	3135.5
1923	10.1	.0	8.2	1.8	38.9	680.3	1421.3	807.2	341.2	52.2	1.1	2.4	10.1	48.9	3250.0	55.7	3364.7
1924	.0	.0	20.2	18.1	54.1	1085.2	1201.3	473.8	228.5	46.7	25.5	.0	.0	92.4	2988.8	72.2	3153.4
1925	.0	.0	17.5	3.3	145.2	1204.8	929.3	687.2	48.5	211.0	34.2	8.5	.0	166.0	2869.8	253.7	3289.5
1926	12.2	.0	.0	8.1	7.5	820.4	716.9	698.7	271.0	168.3	8.9	.0	12.2	15.6	2507.0	177.2	2712.0
1927	.0	.0	.0	17.0	97.9	785.5	1162.4	442.1	382.4	94.5	201.2	.0	.0	114.9	2772.4	295.7	3183.0
1928	.0	20.1	18.6	40.1	20.9	996.7	1168.5	792.0	124.6	384.8	6.0	2.1	20.1	79.6	3081.8	392.9	3574.4
1929	.0	.0	5.1	89.5	184.0	1586.1	816.4	502.7	293.2	410.2	69.3	1.1	.0	278.6	3198.4	480.6	3957.6
1930	.9	.0	.0	10.1	258.2	1023.7	630.3	369.9	368.7	236.5	2.0	.4	.9	268.3	2392.6	238.9	2900.7
1931	.0	.0	.0	27.7	130.9	820.1	1279.6	915.6	219.7	174.9	60.3	69.5	.0	158.6	3235.0	304.7	3698.3
1932	.0	.0	.0	4.4	263.1	831.3	910.3	306.6	406.6	364.1	56.9	15.5	.0	267.5	2454.8	436.5	3158.8
1933	.0	.0	.0	34.7	446.9	1273.8	1334.4	507.0	510.1	234.1	39.8	85.9	.0	481.6	3625.3	359.8	4466.7
1934	13.6	.0	.0	2.4	22.4	1274.7	761.3	498.1	203.4	101.0	37.4	4.0	13.6	24.8	2737.5	142.4	2918.3
1935	.0	.0	.0	25.6	11.4	758.5	987.9	404.6	268.6	293.8	6.4	6.8	.0	37.0	2419.6	307.0	2763.6

31.COASTAL KARNATAKA AREA 18717 SQ.KM NO OF STATION 2

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.0	9.1	34.3	33.5	148.5	1262.8	991.5	464.6	184.4	212.6	147.6	12.2	9.1	216.3	2903.3	372.4	3501.1
1937	.0	.0	.0	147.8	35.4	822.5	1518.4	282.4	188.2	197.2	5.1	2.1	.0	183.2	2811.5	204.4	3199.1
1938	.0	.0	4.8	39.0	262.5	941.7	963.4	424.0	396.9	142.1	49.3	.0	.0	306.3	2726.0	191.4	3223.7
1939	.0	.0	.0	58.4	.0	1008.5	808.7	528.3	142.6	192.6	60.9	.0	.0	58.4	2488.1	253.5	2800.0
1940	.0	.0	.0	7.9	75.0	708.8	1147.7	1357.9	113.5	223.5	113.0	7.2	.0	82.9	3327.9	343.7	3754.5
1941	7.9	.0	.0	9.1	57.4	874.7	406.7	473.1	216.5	127.6	37.5	24.7	7.9	66.5	1971.0	189.8	2235.2
1942	.0	.4	.0	44.9	51.9	1209.8	1087.2	412.0	182.0	91.1	28.1	3.2	.4	96.8	2891.0	122.4	3110.6
1943	27.2	10.8	.0	.3	575.1	1050.0	938.5	311.4	493.2	249.1	90.4	.0	38.0	575.4	2793.1	339.5	3746.0
1944	.0	.0	11.6	.1	103.7	990.1	1106.4	404.1	51.4	331.2	86.0	13.6	.0	115.4	2552.0	430.8	3098.2
1945	5.9	.0	.0	3.8	32.6	1216.9	1337.3	520.6	312.3	69.2	76.3	.0	5.9	36.4	3387.1	145.5	3574.9
1946	.0	.0	40.6	62.7	81.4	1380.2	887.3	891.4	207.8	189.1	302.3	54.0	.0	184.7	3366.7	545.4	4096.8
1947	.0	5.9	5.4	100.9	22.0	792.6	1001.4	798.0	347.9	48.1	.0	18.8	5.9	128.3	2939.9	66.9	3141.0
1948	14.3	.0	15.0	15.2	32.1	926.6	1093.1	767.4	336.9	48.9	198.3	.0	14.3	62.3	3124.0	247.2	3447.8
1949	.0	.0	.0	.6	462.6	877.2	1255.0	458.1	493.6	91.1	24.0	.0	.0	463.2	3083.9	115.1	3662.2
1950	.0	.0	.0	2.2	160.6	1066.3	1429.4	328.4	586.2	83.0	47.3	.0	.0	162.8	3410.3	130.3	3703.4
1951	.0	.0	.0	31.0	74.4	1118.8	1234.3	358.2	205.3	209.5	37.9	.0	.0	105.4	2916.6	247.4	3269.4
1952	.0	.0	.0	31.4	125.9	1046.4	737.5	498.6	36.8	234.6	.0	12.2	.0	157.3	2319.3	246.8	2723.4
1953	.0	.0	.0	21.4	6.4	669.6	1718.6	385.5	185.3	253.8	.6	.0	.0	27.8	2959.0	254.4	3241.2
1954	3.7	.0	11.4	74.7	69.7	589.7	1155.9	694.7	340.3	193.0	2.0	5.5	3.7	155.8	2780.6	200.5	3140.6
1955	.0	.0	.3	27.1	341.2	1228.0	809.8	738.4	472.1	346.0	67.4	.0	.0	368.6	3248.3	413.4	4030.3
1956	.0	.0	.0	29.5	600.3	1029.2	983.1	383.1	197.9	206.5	102.4	.0	.0	629.8	2593.3	308.9	3532.0
1957	.0	.0	2.0	1.3	165.4	818.4	969.8	683.6	77.6	116.7	154.8	1.1	.0	168.7	2549.4	272.6	2990.7
1958	.4	.0	.0	6.3	242.7	1068.4	871.1	668.4	289.4	98.4	89.3	2.3	.4	249.0	2897.3	190.0	3336.7
1959	.0	.0	.0	6.0	240.9	1085.1	1417.6	524.7	367.7	54.7	35.0	18.1	.0	246.9	3395.1	107.8	3749.8
1960	.0	.0	7.3	33.0	486.2	744.1	858.0	453.4	500.7	131.9	51.6	.0	.0	526.5	2556.2	183.5	3266.2
1961	.0	.0	.0	34.2	655.8	1287.2	1609.5	773.0	799.7	373.3	18.1	1.8	.0	690.0	4469.4	393.2	5552.6
1962	.6	32.9	.0	3.6	505.0	373.1	1020.7	1025.3	434.2	264.9	5.5	106.5	33.5	508.6	2853.3	376.9	3772.3
1963	.0	.0	21.7	66.0	123.1	734.1	754.0	941.2	159.5	224.7	17.0	16.5	.0	210.8	2588.8	258.2	3057.8
1964	.0	.0	.0	1.1	82.4	766.7	763.4	813.5	408.2	228.2	29.6	32.8	.0	83.5	2751.8	290.6	3125.9
1965	6.6	.0	.0	1.7	49.0	783.3	810.4	549.5	156.2	14.2	22.7	219.7	6.6	50.7	2299.4	256.6	2613.3
1966	.0	.0	.0	5.5	125.9	722.7	1003.2	236.0	234.3	192.9	227.4	46.1	.0	131.4	2196.2	466.4	2794.0
1967	.0	.0	.0	2.0	51.9	840.9	1189.5	555.3	296.1	117.7	9.5	5.2	.0	53.9	2881.8	132.4	3068.1
1968	.0	.0	.0	52.4	.7	965.0	1381.5	316.1	207.0	240.9	39.8	.3	.0	53.1	2869.6	281.0	3203.7
1969	.0	.0	.0	38.5	50.0	808.3	916.8	317.4	576.8	40.1	64.9	1.3	.0	88.5	2619.3	106.3	2814.1
1970	.0	.0	.0	6.0	345.2	1010.8	1162.9	1270.0	395.6	131.4	39.4	.0	.0	351.2	3839.3	170.8	4361.3
1971	.0	.8	.4	16.0	321.7	1057.7	1171.3	564.3	218.6	43.7	2.1	4.8	.8	338.1	3011.9	50.6	3401.4
1972	.0	.0	.0	4.7	117.3	835.9	799.3	514.8	64.1	154.9	29.0	1.9	.0	122.0	2214.1	185.8	2521.9
1973	.0	.0	.0	27.8	53.9	814.7	880.8	1122.9	163.4	111.7	23.4	9.7	.0	81.7	2981.8	144.8	3208.3
1974	.0	.0	6.5	13.6	276.6	619.1	1442.6	615.9	524.2	268.5	4.4	.0	.0	296.7	3201.8	272.9	3771.4
1975	.0	.0	4.4	4.6	139.8	1711.6	1248.8	1107.1	555.6	208.1	76.5	.0	.0	148.8	4623.1	284.6	5056.5
1976	.0	.0	.0	5.8	69.6	594.9	1080.5	541.7	310.0	58.9	110.1	31.8	.0	75.4	2527.1	200.8	2803.3
1977	.0	.0	1.0	34.7	96.7	936.3	1186.0	348.2	285.6	279.2	287.7	.0	.0	132.4	2756.1	566.9	3455.4
1978	.0	.1	.0	.0	471.3	1391.8	1117.3	615.3	285.8	101.2	73.2	45.7	.1	471.3	3410.2	220.1	4101.7
1979	.0	.0	.0	7.2	2.9	948.5	977.8	422.9	218.4	100.3	113.4	.0	.0	10.1	2567.6	213.7	2791.4
1980	.0	.0	.0	321.7	23.7	1152.3	766.9	939.4	155.3	45.8	64.2	7.9	.0	345.4	3013.9	117.9	3477.2
1981	.8	.0	.0	.7	46.1	1227.7	933.3	863.4	246.8	126.7	44.9	4.2	.8	46.8	3271.2	175.8	3494.6
1982	.0	.0	.0	.0	198.4	925.4	1090.1	1260.0	100.5	77.5	91.1	.0	.0	198.4	3376.0	168.6	3743.0
1983	.0	.0	.0	.4	19.8	524.0	1151.3	1206.8	772.3	109.3	37.8	38.2	.0	20.2	3654.4	185.3	3859.9
1984	.1	.8	10.7	71.6	22.9	1104.5	745.7	474.3	166.0	257.9	3.6	.0	.9	105.2	2490.5	261.5	2858.1
1985	.6	.0	.0	14.6	126.9	1004.9	626.6	675.7	123.8	306.3	31.3	4.4	.6	141.5	2431.0	342.0	2915.1
1986	.0	.0	2.4	.6	40.7	975.6	587.7	770.3	136.5	33.3	217.8	1.8	.0	43.7	2470.1	252.9	2766.7
1987	.0	.0	.0	.0	32.4	1192.9	789.0	748.9	94.6	276.9	87.6	6.1	.0	32.4	2825.4	370.6	3228.4
1988	.0	.0	.0	20.0	53.1	1193.9	1005.9	881.8	513.9	122.7	.8	.0	.0	73.1	3595.5	123.5	3792.1
1989	.0	.0	3.7	7.1	66.9	1200.5	779.9	819.3	292.4	25.0	11.0	.6	.0	77.7	3092.1	36.6	3206.4
1990	.0	.0	.0	.0	607.3	856.2	724.3	922.0	200.3	239.0	37.0	.0	.0	607.3	2702.8	276.0	3586.1
MEAN	2.1	1.4	2.6	25.2	143.7	956.7	1002.3	604.4	288.8	166.7	58.7	11.5	3.5	171.6	2852.2	236.9	3264.2
PER ANN	.1	.0	.1	.8	4.4	29.3	30.7	18.5	8.8	5.1	1.8	.4	.1	5.3	87.4	7.3	100.0
STD	8.7	5.7	6.5	41.3	165.4	241.4	288.5	249.5	165.4	96.8	59.1	26.1	11.7	165.3	509.4	112.4	567.1
COV	406.5	410.6	252.1	163.5	115.1	25.2	28.8	41.3	57.3	58.1	100.7	227.0	331.7	96.3	17.9	47.5	17.4
1991	.0	.0	.0	49.6	137.5	1072.0	1234.7	780.2	63.0	93.3	38.2	1.5	.0	187.1	3149.9	133.0	3470.0
1992	.0	.0	.0	14.6	102.6	1014.1	874.1	860.8	320.8	117.4	226.2	.0	.0	117.2	3069.8	343.6	3530.6
1993	.0	.0	10.8	31.2	68.9	660.7	1396.7	470.7	172.9	392.0	33.4	19.0	.0	110.9	2701.0	444.4	3256.3
1994	8.2	.0	.3	61.4	39.4	1394.3	1130.3	777.7	149.6	272.9	26.3	.0	8.2	101.1	3451.9	299.2	3860.4

32.NORTH INTERIOR KARNATAKA AREA 79895 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	22.7	.0	4.2	29.1	45.9	106.7	86.3	104.5	82.8	101.1	26.2	.0	22.7	79.2	380.3	127.3	609.5
1872	.0	.0	.9	20.4	9.8	137.0	202.5	56.2	202.5	83.0	.8	66.9	.0	31.1	598.2	150.7	780.0
1873	.0	9.8	1.6	28.6	70.4	47.1	149.7	99.6	111.2	125.0	15.3	.0	9.8	100.6	407.6	140.3	658.3
1874	.0	.6	.0	24.1	103.5	201.0	207.6	87.8	367.8	117.6	9.3	.0	.6	127.6	864.2	126.9	1119.3
1875	.0	.0	9.1	36.1	15.6	220.1	277.3	124.1	68.0	108.0	12.9	.4	.0	60.8	689.5	121.3	871.6
1876	.0	.0	19.3	11.7	2.0	93.7	167.4	45.5	59.9	12.8	1.2	.0	.0	33.0	366.5	14.0	413.5
1877	1.0	.0	3.7	54.1	36.4	159.2	52.0	108.3	234.7	204.3	.5	30.4	1.0	94.2	554.2	235.2	884.6
1878	.0	.0	.4	37.9	21.8	82.1	230.7	286.6	176.3	174.0	57.8	.0	.0	60.1	775.7	231.8	1067.6
1879	.0	8.8	4.7	17.1	78.9	158.2	167.8	262.0	50.5	95.6	52.8	1.5	8.8	100.7	638.5	149.9	897.9
1880	.0	.0	15.7	26.9	26.7	162.3	139.3	72.4	157.3	169.6	33.1	1.6	.0	69.3	531.3	204.3	804.9
1881	.0	.0	1.9	34.2	20.0	90.7	141.2	147.7	131.5	71.5	81.3	.0	.0	56.1	511.1	152.8	720.0
1882	8.1	.0	9.2	14.6	61.1	190.5	291.5	131.1	205.8	83.6	57.5	2.1	8.1	84.9	818.9	143.2	1055.1
1883	.2	.0	18.3	15.6	29.3	156.6	170.3	261.8	123.9	106.7	40.7	.8	.2	63.2	712.6	148.2	924.2
1884	5.7	.2	3.8	22.4	15.3	47.6	196.5	140.9	97.2	96.7	1.7	56.9	5.9	41.5	482.2	155.3	684.9
1885	.0	.0	7.2	25.7	59.1	88.0	170.8	120.1	192.2	156.2	35.9	23.7	.0	92.0	571.1	215.8	878.9
1886	.0	.0	.0	12.9	90.3	155.6	165.4	163.1	99.0	187.8	12.1	18.6	.0	103.2	583.1	218.5	904.8
1887	.0	.0	7.2	31.7	27.0	138.4	172.1	139.1	151.6	138.8	44.9	.4	.0	65.9	601.2	184.1	851.2
1888	14.5	1.6	3.0	16.9	64.1	98.5	154.8	97.6	132.6	45.3	84.2	.5	16.1	84.0	483.5	130.0	713.6
1889	.0	.0	1.6	37.5	36.3	148.5	154.4	94.6	282.1	164.7	4.5	.0	.0	75.4	679.6	169.2	924.2
1890	.0	.0	3.1	39.1	16.4	121.0	187.0	113.4	143.8	98.8	114.2	22.5	.0	58.6	565.2	235.5	859.3
1891	2.6	13.4	14.1	34.8	42.6	43.8	143.9	135.4	78.0	100.0	8.4	1.4	16.0	91.5	401.1	109.8	618.4
1892	.0	.7	.0	58.8	37.1	176.5	188.0	265.0	214.7	224.8	16.5	.0	.7	95.9	844.2	241.3	1182.1
1893	.0	4.4	53.6	22.5	112.1	178.2	153.6	173.3	130.7	203.3	47.5	.0	4.4	188.2	635.8	250.8	1079.2
1894	1.7	3.1	21.4	24.8	30.1	97.7	175.2	195.1	203.0	85.2	34.7	.0	4.8	76.3	671.0	119.9	872.0
1895	.0	4.9	.1	39.2	36.3	111.8	156.6	118.2	297.6	152.4	16.0	.2	4.9	75.6	684.2	168.6	933.3
1896	.0	.0	1.7	18.1	32.7	160.6	221.5	156.7	60.5	27.7	40.8	5.6	.0	52.5	599.3	74.1	725.9
1897	.0	4.9	.0	36.3	59.7	154.4	180.7	110.4	203.5	116.1	.0	.0	4.9	96.0	649.0	116.1	866.0
1898	.0	13.5	17.4	40.4	42.2	145.5	211.5	48.6	245.0	99.6	35.2	1.8	13.5	100.0	650.6	136.6	900.7
1899	.0	.0	6.8	48.8	34.2	108.8	36.3	56.3	178.5	26.1	.0	.0	.0	89.8	379.9	26.1	495.8
1900	.0	.0	2.5	38.8	35.6	169.6	248.0	166.3	99.2	22.0	12.1	.0	.0	76.9	683.1	34.1	794.1
1901	.5	16.5	6.7	86.6	50.6	154.1	160.0	104.0	132.4	75.0	15.2	2.6	17.0	143.9	550.5	92.8	804.2
1902	.0	.0	1.9	17.9	35.9	118.1	111.8	76.5	183.8	116.6	36.5	97.4	.0	55.7	490.2	250.5	796.4
1903	2.9	.0	.0	8.4	49.8	98.5	287.6	158.2	184.3	174.1	39.6	22.3	2.9	58.2	728.6	236.0	1025.7
1904	.3	.0	8.8	17.0	48.4	180.0	108.7	74.8	153.0	77.7	.3	.0	.3	74.2	516.5	78.0	669.0
1905	.0	3.3	3.7	11.3	35.3	111.2	99.9	142.9	65.9	118.6	6.3	.0	3.3	50.3	419.9	124.9	598.4
1906	28.1	.0	.1	4.5	36.2	160.3	165.9	225.9	132.7	96.5	26.1	42.9	28.1	40.8	684.8	165.5	919.2
1907	.9	.0	12.5	113.0	2.0	92.9	175.5	271.7	155.9	10.6	13.7	6.1	.9	127.5	696.0	30.4	854.8
1908	.2	.2	5.5	10.8	34.7	71.5	240.4	136.3	239.2	15.1	2.3	.0	.4	51.0	687.4	17.4	756.2
1909	2.0	.1	9.7	11.9	43.6	126.9	219.5	181.2	112.0	35.3	12.4	.3	2.1	65.2	639.6	48.0	754.9
1910	.0	.0	6.4	7.3	27.7	117.1	172.0	186.8	213.6	67.3	29.4	.0	.0	41.4	689.5	96.7	827.6
1911	.0	.0	.2	15.5	34.1	98.3	224.4	127.5	91.0	76.0	9.0	4.4	.0	49.8	541.2	89.4	680.4
1912	.0	14.4	1.2	28.9	35.2	48.7	299.4	171.1	64.4	83.6	31.7	1.8	14.4	65.3	583.6	117.1	780.4
1913	.0	.4	.0	21.0	65.1	133.0	184.2	82.2	83.8	67.7	8.0	.5	.4	86.1	483.2	76.2	645.9
1914	.0	.0	.0	16.6	30.2	91.2	344.7	305.7	162.8	28.3	36.6	20.2	.0	46.8	904.4	85.1	1036.3
1915	32.3	2.3	22.4	23.4	40.6	107.6	161.5	87.9	206.0	102.4	26.1	3.8	34.6	86.4	563.0	132.3	816.3
1916	.0	1.0	.0	22.9	57.9	129.5	227.8	120.3	186.5	214.4	176.5	.0	1.0	80.8	664.1	390.9	1136.8
1917	.0	22.9	24.7	11.7	19.8	161.1	94.1	186.7	215.2	157.3	65.3	.0	22.9	56.2	657.1	222.6	958.8
1918	6.2	.1	1.3	23.6	127.6	36.8	49.4	83.4	170.5	9.6	67.0	3.1	6.3	152.5	340.1	79.7	578.6
1919	11.7	.3	.0	9.3	65.0	170.5	104.0	79.4	194.8	89.0	81.2	5.7	12.0	74.3	548.7	175.9	810.9
1920	3.3	.0	.0	42.5	36.4	95.0	140.8	70.8	133.2	64.4	.6	.0	3.3	78.9	439.8	65.0	587.0
1921	.0	.0	3.8	35.9	2.8	100.4	222.7	75.6	61.0	97.1	83.1	.0	.0	42.5	459.7	180.2	682.4
1922	33.0	3.5	.0	40.6	36.9	95.4	172.9	60.1	51.1	73.5	111.8	.0	36.5	77.5	379.5	185.3	678.8
1923	.3	16.2	41.3	28.8	47.9	28.7	287.8	98.7	159.0	6.0	.0	1.1	16.5	118.0	574.2	7.1	715.8
1924	5.5	.0	6.9	28.9	16.3	63.4	195.6	138.6	145.2	38.7	13.2	2.6	5.5	52.1	542.8	54.5	654.9
1925	.0	.0	5.1	38.1	81.5	90.4	171.2	104.7	106.6	143.3	25.8	15.4	.0	124.7	472.9	184.5	782.1
1926	31.4	1.1	1.4	4.4	52.9	49.6	159.0	194.1	170.1	23.4	.3	.0	32.5	58.7	572.8	23.7	687.7
1927	.0	1.5	2.9	16.7	46.0	137.8	217.3	68.8	182.3	28.9	59.7	.0	1.5	65.6	606.2	88.6	761.9
1928	.0	28.2	11.1	23.3	20.5	169.4	199.8	111.9	225.0	93.7	.0	13.9	28.2	54.9	706.1	107.6	896.8
1929	1.4	28.0	4.8	40.8	40.4	153.3	102.7	46.0	181.3	86.5	15.7	1.3	29.4	86.0	483.3	103.5	702.2
1930	.0	.4	3.9	14.6	56.2	120.9	101.6	78.9	190.3	139.5	42.5	6.4	.4	74.7	491.7	188.4	755.2
1931	.1	.0	18.4	31.1	26.2	122.0	180.8	120.8	185.3	63.2	80.7	18.0	.1	75.7	608.9	161.9	846.6
1932	.0	1.8	.8	53.5	46.7	58.1	231.3	193.8	117.0	192.5	98.7	.0	1.8	101.0	600.2	291.2	994.2
1933	.1	4.6	22.4	52.9	83.6	116.5	179.3	186.9	147.5	185.0	50.4	15.3	4.7	158.9	630.2	250.7	1044.5
1934	8.8	.0	.1	37.6	6.3	108.1	288.8	132.6	85.1	50.1	51.6	.0	8.8	44.0	614.6	101.7	769.1
1935	9.5	.0	.0	24.9	20.8	133.3	155.8	215.4	82.4	133.5	14.5	.7	9.5	45.7	586.9	148.7	790.8

32.NORTH INTERIOR KARNATAKA AREA 79895 SQ.KM NO OF STATION 6

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.0	9.7	2.0	14.4	36.7	139.3	68.9	70.4	132.7	40.1	44.3	1.1	9.7	53.1	411.3	85.5	559.6
1937	.0	12.8	24.7	77.9	14.2	66.9	166.1	55.5	136.3	133.2	.0	6.2	12.8	116.8	424.8	139.4	693.8
1938	.0	7.3	52.4	21.2	28.6	152.8	174.3	200.6	182.0	48.6	2.7	3.1	7.3	102.2	709.7	54.4	873.6
1939	.0	.0	6.7	9.3	6.3	115.2	155.8	203.9	129.7	102.3	13.9	.0	.0	22.3	604.6	116.2	743.1
1940	.0	.0	.0	24.2	68.0	144.9	164.0	157.3	100.1	102.2	22.9	5.9	.0	92.2	566.3	131.0	789.5
1941	14.3	5.1	7.2	17.3	26.6	70.9	160.6	75.1	147.8	68.2	.0	7.2	19.4	51.1	454.4	75.4	600.3
1942	.0	3.1	.6	45.0	39.8	174.4	183.9	147.0	58.0	40.8	8.2	19.6	3.1	85.4	563.3	68.6	720.4
1943	11.7	.1	.9	34.8	109.7	159.4	185.9	74.6	178.1	218.5	30.4	.0	11.8	145.4	598.0	248.9	1004.1
1944	.0	3.3	37.6	5.7	36.2	117.0	231.3	51.6	138.0	170.1	34.9	.0	3.3	79.5	537.9	205.0	825.7
1945	.0	.0	.0	11.1	18.0	81.3	247.8	131.6	127.4	61.5	5.2	.0	.0	29.1	588.1	66.7	683.9
1946	.0	12.6	4.0	59.5	65.4	127.5	240.0	178.0	140.6	74.1	101.3	3.7	12.6	128.9	686.1	179.1	1006.7
1947	12.2	5.0	15.5	15.4	41.1	100.4	169.2	223.6	134.0	37.0	10.2	26.3	17.2	72.0	627.2	73.5	789.9
1948	.8	.0	3.4	43.5	23.0	104.4	128.8	198.4	181.2	74.4	143.7	.5	.8	69.9	612.8	218.6	902.1
1949	.0	2.6	10.7	27.8	94.4	89.6	172.3	132.1	270.6	83.8	15.7	.0	2.6	132.9	664.6	99.5	899.6
1950	.0	3.4	4.1	12.1	52.0	91.0	227.8	171.0	207.2	114.6	12.6	.0	3.4	68.2	697.0	127.2	895.8
1951	.0	.0	1.2	28.1	63.5	174.5	213.7	98.0	164.5	96.2	13.0	.1	.0	92.8	650.7	109.3	852.8
1952	.0	8.7	.0	43.9	114.4	89.6	205.2	107.0	89.4	112.3	.0	7.3	8.7	158.3	491.2	119.6	777.8
1953	.0	.0	1.4	26.3	7.3	182.6	266.8	167.4	178.0	266.3	.0	.0	.0	35.0	794.8	266.3	1096.1
1954	.0	.0	15.0	25.4	27.0	88.1	179.9	245.9	100.4	65.1	2.0	8.4	.0	67.4	614.3	75.5	757.2
1955	.0	.0	7.7	18.7	93.0	174.5	155.8	229.9	210.2	105.7	22.7	.0	.0	119.4	770.4	128.4	1018.2
1956	.0	10.1	5.6	34.9	65.6	119.6	424.7	173.1	137.0	196.8	68.0	1.6	10.1	106.1	854.4	266.4	1237.0
1957	.0	2.4	12.2	42.5	62.8	135.7	154.5	235.0	98.3	201.6	22.6	.0	2.4	117.5	623.5	224.2	967.6
1958	.0	2.3	6.8	44.0	109.4	69.3	275.0	183.1	79.8	114.8	29.0	.0	2.3	160.2	607.2	143.8	913.5
1959	.0	.7	1.0	39.4	36.2	212.3	269.1	133.6	171.6	72.8	18.4	6.6	.7	76.6	786.6	97.8	961.7
1960	.0	.0	33.9	18.2	125.0	103.3	137.5	59.9	263.3	45.1	30.3	.0	.0	177.1	564.0	75.4	816.5
1961	.2	.0	3.3	27.8	131.6	128.3	350.1	122.2	45.6	137.3	9.2	.0	.2	162.7	646.2	146.5	955.6
1962	.1	6.5	8.3	82.6	63.6	75.7	225.9	159.8	152.7	114.7	22.0	70.4	6.6	154.5	614.1	207.1	982.3
1963	.1	13.1	22.8	45.7	85.2	110.2	116.1	252.8	55.8	196.5	.7	.0	13.2	153.7	534.9	197.2	899.0
1964	.0	6.7	10.7	23.6	11.8	93.6	236.5	174.7	382.0	129.9	27.3	6.2	6.7	46.1	886.8	163.4	1103.0
1965	1.3	.0	.6	29.3	32.4	132.9	257.1	96.4	139.4	12.0	7.2	27.7	1.3	62.3	625.8	46.9	736.3
1966	8.3	1.1	8.3	14.4	118.2	56.5	198.4	109.4	205.3	65.3	100.9	13.5	9.4	140.9	569.6	179.7	899.6
1967	6.6	.0	8.1	47.0	36.2	100.0	281.8	113.7	144.0	103.5	1.7	10.4	6.6	91.3	639.5	115.6	853.0
1968	2.6	18.0	2.9	45.0	44.0	138.7	161.1	41.3	193.3	113.1	29.6	3.8	20.6	91.9	534.4	146.5	793.4
1969	.0	.0	14.1	10.8	57.0	68.6	202.4	260.6	176.9	90.7	36.3	2.0	.0	81.9	708.5	129.0	919.4
1970	.4	.0	.0	34.2	73.9	82.1	181.8	252.1	179.0	108.8	.0	.0	.4	108.1	695.0	108.8	912.3
1971	.0	.0	.0	31.9	59.1	144.2	92.5	128.2	133.9	122.4	.0	.0	.0	91.0	498.8	122.4	712.2
1972	.0	4.2	2.1	33.2	44.7	87.7	126.3	39.8	144.5	38.8	26.9	.3	4.2	80.0	398.3	66.0	548.5
1973	.0	.0	.0	20.8	27.4	136.4	115.9	160.5	96.7	170.0	10.9	.9	.0	48.2	509.5	181.8	739.5
1974	.0	.0	11.7	33.1	130.1	85.7	110.8	106.1	200.8	187.2	.5	.0	.0	174.9	503.4	187.7	866.0
1975	3.5	1.5	6.1	8.2	58.8	193.3	250.5	112.2	199.0	292.6	22.9	.0	5.0	73.1	755.0	315.5	1148.6
1976	.0	.0	.6	52.2	15.5	142.1	185.7	236.7	108.1	14.1	72.2	.0	.0	68.3	672.6	86.3	827.2
1977	.0	.0	12.2	66.7	53.6	183.0	200.6	122.4	52.1	136.0	89.1	.2	.0	132.5	558.1	225.3	915.9
1978	1.6	12.1	.2	36.7	105.1	117.9	184.7	210.1	226.7	82.8	44.3	8.0	13.7	142.0	739.4	135.1	1030.2
1979	1.0	10.8	1.9	5.6	84.5	146.4	95.4	124.8	262.3	52.2	137.6	.0	11.8	92.0	628.9	189.8	922.5
1980	.0	.0	.9	54.8	12.1	131.2	160.2	177.6	107.8	24.7	21.8	6.4	.0	67.8	576.8	52.9	697.5
1981	8.3	.0	12.1	39.4	48.2	173.6	114.4	143.2	332.8	63.1	25.8	.1	8.3	99.7	764.0	89.0	961.0
1982	.0	.0	.0	35.0	71.0	126.8	219.7	88.1	155.3	79.0	54.1	.0	.0	106.0	589.9	133.1	829.0
1983	.0	.0	.0	.6	30.8	200.2	174.0	196.9	248.0	77.2	13.5	14.1	.0	31.4	819.1	104.8	955.3
1984	.0	7.7	15.4	12.0	5.9	81.5	261.2	77.2	130.8	104.4	7.6	19.7	7.7	33.3	550.7	131.7	723.4
1985	4.6	.0	3.5	25.9	49.1	100.4	125.0	124.3	71.0	137.6	1.5	1.0	4.6	78.5	420.7	140.1	643.9
1986	20.7	11.4	3.2	25.8	46.7	148.1	99.7	179.0	124.6	31.9	40.2	3.9	32.1	75.7	551.4	76.0	735.2
1987	7.7	1.0	2.2	5.0	73.7	101.4	102.8	186.1	113.7	141.6	75.9	20.9	8.7	80.9	504.0	238.4	832.0
1988	.0	.8	2.2	74.1	35.0	100.5	210.4	237.5	248.5	13.0	.0	24.5	.8	111.3	796.9	37.5	946.5
1989	.0	.0	41.2	27.1	39.9	144.3	211.7	51.3	248.0	27.5	12.2	15.7	.0	108.2	655.3	55.4	818.9
1990	6.3	.0	.0	12.6	151.3	168.8	88.2	159.6	72.0	96.2	25.8	.0	6.3	163.9	488.6	122.0	780.8
MEAN	2.9	3.3	7.6	29.8	49.3	121.5	182.8	141.1	155.5	100.4	31.7	7.2	6.2	86.7	600.9	139.3	833.1
PER ANN	.3	.4	.9	3.6	5.9	14.6	21.9	16.9	18.7	12.0	3.8	.9	.7	10.4	72.1	16.7	100.0
STD	6.7	5.8	10.5	18.5	31.6	41.0	64.0	62.2	66.4	58.8	34.1	15.0	8.6	36.7	119.7	70.1	151.1
COV	232.4	175.6	138.6	61.9	64.2	33.7	35.0	44.1	42.7	58.6	107.8	206.9	138.2	42.4	19.9	50.3	18.1
1991	1.5	.0	2.2	75.6	97.6	296.3	193.8	114.1	82.4	59.4	18.8	.0	1.5	175.4	686.6	78.2	941.7
1992	.0	.0	.8	26.4	68.8	152.5	109.7	140.0	96.8	82.6	151.5	.0	.0	96.0	499.0	234.1	829.1
1993	.0	.0	13.0	13.7	38.2	97.1	178.5	155.7	97.6	250.3	11.9	36.8	.0	64.9	528.9	299.0	892.8
1994	.0	1.9	.1	59.3	16.0	141.2	205.4	129.2	57.0	229.1	6.7	.0	1.9	75.4	532.8	235.8	845.9

33.SOUTH INTERIOR KARNATAKA AREA 93171 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	85.6	.7	29.5	26.5	129.1	108.4	103.7	69.0	128.7	87.1	69.3	.5	86.3	185.1	409.8	156.9	838.1
1872	.0	2.4	.1	19.2	97.6	81.2	131.4	85.8	114.3	85.1	31.5	45.4	2.4	116.9	412.7	162.0	694.0
1873	.0	10.5	.1	50.2	84.6	77.3	96.2	131.7	95.4	239.3	5.2	3.5	10.5	134.9	400.6	248.0	794.0
1874	.0	.0	.0	12.2	203.1	143.4	170.7	101.2	215.9	205.6	21.8	9.3	.0	215.3	631.2	236.7	1083.2
1875	.6	.0	29.6	7.0	71.5	116.7	116.4	66.7	57.0	63.8	5.6	6.3	.6	108.1	356.8	75.7	541.2
1876	.0	.0	30.5	29.2	70.3	69.6	143.4	100.3	49.2	15.9	7.3	.0	.0	130.0	362.5	23.2	515.7
1877	.0	.0	16.8	47.3	49.0	143.0	45.3	95.3	178.0	240.6	44.8	21.7	.0	113.1	461.6	307.1	881.8
1878	.0	.0	15.2	57.6	96.5	89.1	124.2	208.7	148.5	129.7	29.9	4.8	.0	169.3	570.5	164.4	904.2
1879	1.9	14.0	15.8	25.4	200.5	108.2	187.5	127.0	74.2	123.7	25.4	2.2	15.9	241.7	496.9	151.3	905.8
1880	2.3	.0	13.9	57.0	139.4	127.9	139.6	122.6	81.5	234.4	113.2	5.6	2.3	210.3	471.6	353.2	1037.4
1881	1.0	.3	21.1	36.6	77.6	50.3	68.7	149.7	117.7	38.6	107.4	2.3	1.3	135.3	386.4	148.3	671.3
1882	26.6	.0	8.6	12.0	148.4	142.8	320.9	146.8	124.7	113.0	129.2	.6	26.6	169.0	735.2	242.8	1173.6
1883	.0	.0	25.1	50.4	107.0	73.8	191.1	233.5	38.5	258.5	88.0	54.4	.0	182.5	536.9	400.9	1120.3
1884	9.7	.0	.4	26.5	52.9	70.9	71.1	138.4	69.9	171.4	52.1	14.2	9.7	79.8	350.3	237.7	677.5
1885	.0	.0	17.1	18.1	108.4	119.4	96.9	79.6	143.1	238.3	31.0	52.6	.0	143.6	439.0	321.9	904.5
1886	.0	.0	5.0	10.1	134.2	117.0	180.9	133.3	175.0	109.2	81.5	11.6	.0	149.3	606.2	202.3	957.8
1887	.0	.0	1.2	40.5	90.4	129.8	132.3	96.4	106.3	209.4	119.7	20.3	.0	132.1	464.8	349.4	946.3
1888	1.2	1.3	1.1	38.0	105.0	93.6	162.1	92.7	149.5	60.3	148.9	3.0	2.5	144.1	497.9	212.2	856.7
1889	2.2	.4	1.6	52.6	71.0	115.7	158.5	165.2	314.3	179.1	15.8	21.5	2.6	125.2	753.7	216.4	1097.9
1890	.2	1.4	16.7	84.4	109.8	71.6	149.1	105.9	93.5	147.5	104.7	17.3	1.6	210.9	420.1	269.5	902.1
1891	1.0	3.4	25.9	53.3	61.8	116.6	152.6	81.2	31.3	156.9	13.1	1.8	4.4	141.0	381.7	171.8	698.9
1892	.0	3.5	3.3	76.1	107.0	144.6	187.0	158.3	75.8	118.5	11.7	5.8	3.5	186.4	565.7	136.0	891.6
1893	.0	7.8	37.7	37.8	109.2	166.2	154.5	81.3	71.0	216.2	90.6	.0	7.8	184.7	473.0	306.8	972.3
1894	.0	1.7	20.8	85.6	114.5	74.0	104.6	128.5	49.2	194.7	40.0	.6	1.7	220.9	356.3	235.3	814.2
1895	.0	1.9	.7	90.9	86.2	143.7	129.6	119.1	156.5	179.1	51.2	7.5	1.9	177.8	548.9	237.8	966.4
1896	.0	.0	3.8	28.2	110.7	189.3	197.5	145.4	125.9	49.8	89.1	3.7	.0	142.7	658.1	142.6	943.4
1897	.1	10.0	1.8	34.1	100.3	143.1	153.1	191.1	289.0	95.1	6.5	.8	10.1	136.2	776.3	102.4	1025.0
1898	.0	1.6	.3	47.0	83.0	107.4	127.2	79.5	267.7	144.9	180.1	6.0	1.6	130.3	581.8	331.0	1044.7
1899	.0	1.1	1.0	95.2	82.0	102.4	39.2	64.6	208.6	78.0	2.2	1.8	1.1	178.2	414.8	82.0	676.1
1900	.0	.0	1.4	50.4	55.7	132.2	174.2	143.1	130.0	144.4	11.4	5.0	.0	107.5	579.5	160.8	847.8
1901	2.3	38.8	2.5	18.7	99.6	81.7	131.2	76.1	162.1	172.2	72.2	17.9	41.1	120.8	451.1	262.3	875.3
1902	2.3	.3	3.8	52.0	96.9	77.6	142.6	68.9	116.2	246.8	42.0	74.3	2.6	152.7	405.3	363.1	923.7
1903	.2	.0	.0	10.6	129.8	117.1	192.9	138.8	238.9	195.4	183.3	26.2	.2	140.4	687.7	404.9	1233.2
1904	.6	.9	4.8	44.6	191.9	109.8	162.6	51.7	87.3	161.7	3.1	.4	1.5	241.3	411.4	165.2	819.4
1905	2.0	15.4	12.7	18.9	97.4	79.5	99.4	131.5	40.4	146.7	24.8	1.0	17.4	129.0	350.8	172.5	669.7
1906	21.5	2.0	3.3	3.4	53.1	106.0	167.5	273.9	117.1	165.8	17.9	51.9	23.5	59.8	664.5	235.6	983.4
1907	3.2	.0	12.5	91.3	56.6	109.2	177.2	147.4	144.3	43.2	60.2	13.9	3.2	160.4	578.1	117.3	859.0
1908	20.7	1.7	11.5	39.9	97.1	66.6	160.7	87.7	86.5	55.4	1.1	.6	22.4	148.5	401.5	57.1	629.5
1909	21.8	2.0	11.5	55.9	195.6	98.5	148.7	192.9	103.4	124.7	32.3	13.6	23.8	263.0	543.5	170.6	1000.9
1910	.0	1.4	9.7	34.0	76.7	89.1	205.2	215.4	115.3	211.8	83.1	.0	1.4	120.4	625.0	294.9	1041.7
1911	.1	.0	9.5	29.7	125.2	128.0	166.8	61.5	56.7	164.9	37.6	7.9	.1	164.4	413.0	210.4	787.9
1912	.4	5.4	8.7	36.5	75.2	106.3	195.6	132.2	186.3	184.1	54.8	.0	5.8	120.4	620.4	238.9	985.5
1913	.0	.0	1.1	19.8	96.9	80.3	183.6	57.3	161.7	103.1	1.2	3.2	.0	117.8	482.9	107.5	708.2
1914	.1	1.2	2.4	22.4	55.7	48.4	185.8	117.2	108.2	121.2	67.3	17.9	1.3	80.5	459.6	206.4	747.8
1915	15.6	1.3	42.2	40.2	80.3	193.5	140.5	58.4	165.8	92.0	106.2	12.8	16.9	162.7	558.2	211.0	948.8
1916	.0	.0	.0	20.3	152.1	116.8	177.5	165.0	137.4	179.2	139.5	7.4	.0	172.4	596.7	326.1	1095.2
1917	.4	41.0	17.9	16.6	71.5	104.6	69.4	156.0	239.4	148.9	77.9	2.9	41.4	106.0	569.4	229.7	946.5
1918	22.0	.6	21.2	39.5	93.3	39.7	42.9	69.5	112.5	44.0	183.5	13.3	22.6	154.0	264.6	240.8	682.0
1919	6.3	.0	5.7	25.0	108.5	123.8	130.3	78.9	218.2	71.0	166.3	6.1	6.3	139.2	551.2	243.4	940.1
1920	8.5	1.5	2.0	39.2	65.7	94.9	135.6	90.7	142.6	110.3	36.3	.0	10.0	106.9	463.8	146.6	727.3
1921	15.8	.0	2.7	88.4	53.4	83.1	157.2	121.8	68.5	176.2	77.6	.3	15.8	144.5	430.6	254.1	845.0
1922	9.3	.9	.3	29.3	107.6	82.7	127.1	91.2	50.7	176.8	151.1	1.6	10.2	137.2	351.7	329.5	828.6
1923	4.3	4.1	34.3	34.9	90.4	57.2	258.8	119.9	95.5	40.5	9.9	1.4	8.4	159.6	531.4	51.8	751.2
1924	.3	.1	4.3	38.0	96.5	90.6	271.1	120.6	137.3	57.9	48.4	13.1	.4	138.8	619.6	119.4	878.2
1925	.0	.0	7.1	63.2	127.1	82.9	144.9	101.1	119.6	59.6	76.5	46.9	.0	197.4	448.5	183.0	828.9
1926	26.6	.1	9.7	45.4	68.6	78.2	179.2	113.4	139.3	99.4	6.8	.8	26.7	123.7	510.1	107.0	767.5
1927	.0	3.9	10.3	11.3	81.1	85.7	167.2	75.9	157.5	21.3	67.7	.0	3.9	102.7	486.3	89.0	681.9
1928	.9	44.2	16.2	35.9	70.4	97.7	133.6	133.7	36.9	242.6	26.2	10.9	45.1	122.5	401.9	279.7	849.2
1929	4.5	14.4	.2	117.7	101.7	107.1	119.6	63.9	170.7	112.6	80.3	6.2	18.9	219.6	461.3	199.1	898.9
1930	7.3	8.1	11.4	22.9	173.3	84.4	73.3	61.3	160.3	260.7	44.5	15.7	15.4	207.6	379.3	320.9	923.2
1931	.0	.0	2.7	40.1	95.7	87.8	111.3	147.6	174.3	34.9	89.6	26.9	.0	138.5	521.0	151.4	810.9
1932	.0	22.9	2.1	21.2	148.3	53.2	159.2	218.9	101.8	218.7	122.5	4.6	22.9	171.6	533.1	345.8	1073.4
1933	.0	3.0	11.8	43.7	194.1	86.6	171.3	247.2	161.4	239.8	12.2	44.0	3.0	249.6	666.5	296.0	1215.1
1934	8.1	3.2	1.0	57.4	56.6	106.1	105.5	101.3	33.4	212.0	39.0	1.1	11.3	115.0	346.3	252.1	724.7
1935	6.3	2.0	6.9	40.2	62.1	133.1	134.3	191.5	104.1	210.4	8.1	7.3	8.3	109.2	563.0	225.8	906.3

33.SOUTH INTERIOR KARNATAKA AREA 93171 SQ.KM NO OF STATION 11

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.1	3.9	25.7	15.3	117.4	149.5	123.6	92.5	183.1	76.6	91.5	4.3	4.0	158.4	548.7	172.4	883.5
1937	.1	15.0	26.5	89.6	103.7	61.8	157.2	65.0	111.5	131.1	24.9	11.0	15.1	219.8	395.5	167.0	797.4
1938	.0	2.9	18.4	32.8	39.6	80.7	108.0	220.1	164.6	24.5	16.6	3.0	2.9	90.8	573.4	44.1	711.2
1939	4.8	.0	13.6	81.5	47.9	63.9	120.8	146.4	93.0	222.7	77.6	.0	4.8	143.0	424.1	300.3	872.2
1940	.0	.0	2.9	51.5	135.7	147.0	136.1	121.9	117.1	161.5	163.1	19.6	.0	190.1	522.1	344.2	1056.4
1941	1.1	7.3	.1	63.6	92.0	128.4	125.6	137.7	135.7	120.4	19.5	69.5	8.4	155.7	527.4	209.4	900.9
1942	.0	4.0	.6	54.6	111.6	127.3	156.9	123.2	77.5	117.8	35.8	25.1	4.0	166.8	484.9	178.7	834.4
1943	25.7	.0	7.7	57.7	163.1	63.0	150.5	54.5	142.5	284.8	65.2	.0	25.7	228.5	410.5	350.0	1014.7
1944	.0	40.3	41.6	22.0	80.5	89.7	176.7	63.2	129.3	168.3	79.8	8.5	40.3	144.1	458.9	256.6	899.9
1945	.0	.0	.0	53.6	108.8	51.7	195.8	78.9	74.0	70.1	30.3	.0	.0	162.4	400.4	100.4	663.2
1946	.0	1.9	17.8	48.2	86.8	82.9	120.0	179.5	161.7	116.6	152.1	40.3	1.9	152.8	544.1	309.0	1007.8
1947	8.9	5.6	13.3	23.7	60.7	93.1	152.2	193.7	121.5	128.8	12.8	16.7	14.5	97.7	560.5	158.3	831.0
1948	5.7	.0	4.6	59.3	147.8	125.3	121.6	215.0	60.6	107.6	94.0	5.1	5.7	211.7	522.5	206.7	946.6
1949	.0	.6	2.5	23.7	86.3	75.0	159.7	130.8	101.8	171.2	7.3	.0	.6	112.5	467.3	178.5	758.9
1950	.2	16.5	3.1	1.4	88.9	66.5	190.7	149.1	147.6	127.8	86.3	.2	16.7	93.4	553.9	214.3	878.3
1951	.1	.0	14.0	57.8	148.2	81.8	178.5	60.4	196.5	130.8	32.0	.0	.1	220.0	517.2	162.8	900.1
1952	.0	17.6	.5	37.6	96.1	54.2	127.5	119.0	61.0	196.2	.0	60.4	17.6	134.2	361.7	256.6	770.1
1953	.4	.7	.2	90.2	44.0	121.8	274.6	98.4	129.2	350.1	3.3	.0	1.1	134.4	624.0	353.4	1112.9
1954	2.8	.5	6.7	49.9	179.2	100.2	219.4	183.4	40.4	195.6	.0	21.9	3.3	235.8	543.4	217.5	1000.0
1955	2.2	1.4	21.2	70.3	184.3	90.8	66.3	115.8	194.0	193.3	18.7	4.9	3.6	275.8	466.9	216.9	963.2
1956	1.1	3.0	.2	78.2	35.2	134.3	157.2	81.0	133.6	307.9	134.9	1.5	4.1	113.6	506.1	444.3	1068.1
1957	.0	1.6	10.5	20.4	194.4	134.8	130.0	81.9	47.6	180.0	83.8	.4	1.6	225.3	394.3	264.2	885.4
1958	7.3	5.4	8.1	71.2	161.8	106.3	143.5	165.5	129.7	148.2	68.5	1.9	12.7	241.1	545.0	218.6	1017.4
1959	.0	10.4	.0	25.5	99.4	191.9	234.8	120.0	190.3	75.9	44.8	3.9	10.4	124.9	737.0	124.6	996.9
1960	.1	.0	31.5	36.2	90.2	67.4	154.7	69.4	161.0	134.9	70.5	.1	.1	157.9	452.5	205.5	816.0
1961	2.2	3.1	3.0	71.4	146.6	139.1	314.8	122.4	60.5	183.4	19.4	1.9	5.3	221.0	636.8	204.7	1067.8
1962	1.5	7.2	5.2	109.7	142.1	48.7	150.4	142.9	148.1	231.9	26.3	68.0	8.7	257.0	490.1	326.2	1082.0
1963	2.9	.2	12.8	59.1	77.7	70.1	120.7	161.3	107.6	217.9	15.4	15.5	3.1	149.6	459.7	248.8	861.2
1964	.0	.0	.4	23.9	85.3	95.1	222.5	206.7	189.6	136.0	115.2	3.5	.0	109.6	713.9	254.7	1078.2
1965	5.7	.0	2.6	20.0	50.8	71.3	117.3	132.6	80.9	15.3	39.7	30.8	5.7	73.4	402.1	85.8	567.0
1966	3.0	.0	4.2	30.3	112.3	71.9	152.2	76.3	240.0	164.2	161.2	24.5	3.0	146.8	540.4	349.9	1040.1
1967	8.8	.0	4.1	27.4	69.5	105.2	216.1	84.9	38.3	96.9	19.7	22.2	8.8	101.0	444.5	138.8	693.1
1968	.0	12.2	7.6	55.9	71.5	93.5	139.5	63.1	227.1	104.3	27.5	6.6	12.2	135.0	523.2	138.4	808.8
1969	.0	.0	5.4	46.1	106.7	59.9	146.4	160.7	66.7	174.3	91.9	28.7	.0	158.2	433.7	294.9	886.8
1970	1.3	3.0	6.3	53.9	126.3	71.0	107.2	110.7	102.2	224.6	27.5	.3	4.3	186.5	391.1	252.4	834.3
1971	.2	3.4	2.5	42.5	107.4	111.9	75.9	172.7	173.8	111.6	19.3	11.0	3.6	152.4	534.3	141.9	832.2
1972	.0	.0	.0	27.3	173.6	102.9	118.0	56.9	174.0	121.2	24.6	48.5	.0	200.9	451.8	194.3	847.0
1973	.0	.0	.0	34.1	99.0	122.3	150.9	171.6	105.5	161.4	34.4	12.1	.0	133.1	550.3	207.9	891.3
1974	1.2	.0	1.4	41.3	102.9	34.9	172.7	90.4	227.1	136.7	7.9	.0	1.2	145.6	525.1	144.6	816.5
1975	3.2	6.2	22.8	23.8	113.7	123.9	171.2	155.1	167.1	136.5	78.7	1.5	9.4	160.3	617.3	216.7	1003.7
1976	.0	.0	.5	96.1	24.4	54.7	98.1	105.7	58.1	47.8	89.3	.4	.0	121.0	316.6	137.5	575.1
1977	.0	.6	15.3	67.4	149.5	115.1	125.6	126.2	140.1	228.9	86.7	.0	.6	232.2	507.0	315.6	1055.4
1978	.7	10.2	1.8	55.7	124.7	100.5	169.2	128.8	154.5	111.5	89.4	41.2	10.9	182.2	553.0	242.1	988.2
1979	.0	25.3	7.1	44.8	63.5	154.4	105.3	148.1	220.8	126.2	127.9	.4	25.3	115.4	628.6	254.5	1023.8
1980	.0	.0	2.5	41.8	88.4	112.8	173.5	82.1	200.9	101.4	53.1	1.3	.0	132.7	569.3	155.8	857.8
1981	4.6	.0	36.3	28.9	99.0	66.1	98.8	180.2	223.2	131.0	43.9	13.2	4.6	164.2	568.3	188.1	925.2
1982	.0	.0	.6	22.0	87.9	88.5	83.1	104.4	100.2	91.1	52.8	1.0	.0	110.5	376.2	144.9	631.6
1983	.0	.0	.0	2.2	95.0	167.3	121.7	163.6	146.7	116.5	16.1	39.5	.0	97.2	599.3	172.1	868.6
1984	.2	10.8	92.5	48.1	53.3	84.0	169.8	75.4	170.1	127.8	19.4	9.6	11.0	193.9	499.3	156.8	861.0
1985	4.2	.0	14.7	38.2	48.4	98.3	74.3	100.4	132.6	47.1	38.0	6.4	4.2	101.3	405.6	91.5	602.6
1986	24.1	11.7	2.4	31.4	58.5	125.8	75.9	134.2	220.4	85.7	95.0	16.4	35.8	92.3	556.3	197.1	881.5
1987	.0	.0	10.9	14.4	66.4	110.6	71.6	137.1	136.7	173.4	83.6	51.1	.0	91.7	456.0	308.1	855.8
1988	.0	5.2	7.0	68.3	68.2	46.2	202.2	219.7	201.5	23.2	13.7	24.5	5.2	143.5	669.6	61.4	879.7
1989	.0	.0	15.2	23.2	70.4	105.5	244.0	96.8	162.6	122.9	27.5	8.4	.0	108.8	608.9	158.8	876.5
1990	2.5	.0	2.6	15.1	146.3	79.6	94.4	136.7	63.9	136.0	59.1	2.6	2.5	164.0	374.6	197.7	738.8
MEAN	3.9	4.3	10.1	42.7	101.1	99.8	147.5	123.6	132.3	142.2	58.3	13.1	8.3	153.9	503.3	213.6	879.1
PER ANN	.4	.5	1.1	4.9	11.5	11.4	16.8	14.1	15.1	16.2	6.6	1.5	.9	17.5	57.3	24.3	100.0
STD	9.8	8.5	12.7	24.0	39.6	32.3	50.3	47.8	58.7	67.2	47.0	17.2	12.3	45.5	102.0	85.0	144.5
COV	249.6	195.5	125.6	56.1	39.2	32.4	34.1	38.6	44.4	47.3	80.6	131.4	149.1	29.5	20.3	39.8	16.4
1991	1.3	1.1	4.5	81.7	135.8	185.5	141.7	116.4	135.1	218.4	82.8	.0	2.4	222.0	578.7	301.2	1104.3
1992	1.3	.0	.0	30.5	104.3	191.2	109.4	139.3	149.3	116.5	175.3	.5	1.3	134.8	589.2	292.3	1017.6
1993	.0	.0	12.2	25.3	60.7	148.3	132.8	114.1	135.4	222.6	34.0	47.6	.0	98.2	530.6	304.2	933.0
1994	24.5	2.8	9.4	35.3	85.2	123.3	193.7	44.6	83.0	258.0	40.7	3.0	27.3	129.9	444.6	301.7	903.5

34.KERALA AREA 38864 SQ.KM NO OF STATION 10

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1871	96.9	14.9	53.6	165.1	198.1	880.1	944.8	250.9	221.4	139.3	216.6	9.5	111.8	416.8	2297.2	365.4	3191.2
1872	.0	13.3	1.4	80.1	185.4	798.1	741.8	402.0	429.8	97.1	93.6	38.0	13.3	266.9	2371.7	228.7	2880.6
1873	.4	78.1	2.5	152.6	247.8	831.3	856.7	188.8	128.3	219.0	19.0	14.2	78.5	402.9	2005.1	252.2	2738.7
1874	.0	11.4	5.1	87.4	591.3	1054.1	691.3	319.6	235.7	245.3	77.6	27.8	11.4	683.8	2300.7	350.7	3346.6
1875	1.6	.0	15.3	92.5	116.1	863.3	650.2	312.8	118.7	157.1	50.6	11.3	1.6	223.9	1945.0	219.0	2389.5
1876	.0	.3	37.5	44.2	75.2	596.5	786.3	242.7	110.5	54.7	36.5	2.1	.3	156.9	1736.0	93.3	1986.5
1877	.0	4.9	21.1	86.4	118.5	845.1	264.4	585.2	394.6	506.2	102.3	75.3	4.9	226.0	2089.3	683.8	3004.0
1878	.4	.0	16.4	103.4	200.0	936.2	547.8	855.3	586.1	300.4	124.8	46.4	.4	319.8	2925.4	471.6	3717.2
1879	4.1	3.6	43.5	45.9	572.4	471.2	571.4	356.4	178.4	272.7	109.3	43.6	7.7	661.8	1577.4	425.6	2672.5
1880	.2	11.6	15.1	141.2	287.3	719.0	606.4	154.8	144.0	120.8	194.5	37.6	11.8	443.6	1624.2	352.9	2432.5
1881	1.1	.0	23.5	18.3	150.4	292.9	300.0	552.7	193.6	112.3	204.6	6.6	1.1	192.2	1339.2	323.5	1856.0
1882	35.1	.2	.7	34.8	346.5	954.5	1131.2	331.1	236.1	282.6	124.0	9.3	35.3	382.0	2652.9	415.9	3486.1
1883	3.8	.3	38.6	84.6	227.9	691.4	776.6	370.0	84.4	270.7	147.5	24.2	4.1	351.1	1922.4	442.4	2720.0
1884	.0	.6	18.9	34.9	152.7	471.5	445.0	465.6	314.6	251.6	152.4	19.3	.6	206.5	1696.7	423.3	2327.1
1885	.0	3.5	16.8	36.6	92.7	1030.7	844.0	388.8	109.8	395.1	110.5	102.6	3.5	146.1	2373.3	608.2	3131.1
1886	2.0	1.8	.2	66.5	381.1	552.7	587.9	174.1	176.7	289.5	98.6	14.2	3.8	447.8	1491.4	402.3	2345.3
1887	.0	2.9	17.7	108.6	92.2	922.6	528.1	127.8	150.4	294.4	148.1	45.8	2.9	218.5	1728.9	488.3	2438.6
1888	.0	6.3	3.8	95.4	357.1	1068.8	497.6	463.2	123.2	148.9	222.7	3.1	6.3	456.3	2152.8	374.7	2990.1
1889	.0	4.1	18.9	112.6	191.5	821.7	382.1	409.8	419.5	272.5	98.6	45.0	4.1	323.0	2033.1	416.1	2776.3
1890	1.6	24.7	58.3	182.5	177.4	615.7	511.9	223.7	111.6	156.7	65.0	24.4	26.3	418.2	1462.9	246.1	2153.5
1891	3.7	26.0	47.7	107.0	247.2	736.7	557.2	271.9	86.2	470.5	134.0	65.9	29.7	401.9	1652.0	670.4	2754.0
1892	.0	8.1	54.1	225.5	294.6	357.3	1002.4	474.6	144.6	468.5	100.7	6.3	8.1	574.2	1978.9	575.5	3136.7
1893	18.8	35.0	107.2	64.5	327.5	748.0	364.0	255.1	156.5	263.7	192.3	2.2	53.8	499.2	1523.6	458.2	2534.8
1894	5.3	15.7	107.1	139.0	136.4	601.2	503.9	404.9	143.0	230.6	70.2	9.9	21.0	382.5	1653.0	310.7	2367.2
1895	.8	.0	33.6	215.6	99.2	622.7	560.2	270.8	87.4	300.2	69.7	31.4	.8	348.4	1541.1	401.3	2291.6
1896	3.1	.6	19.3	70.7	191.6	905.7	583.5	537.2	110.2	198.3	161.9	53.1	3.7	281.6	2136.6	413.3	2835.2
1897	2.0	52.8	28.5	108.5	140.3	892.8	740.0	631.6	302.8	188.1	118.0	17.2	54.8	277.3	2567.2	323.3	3222.6
1898	2.7	25.0	15.0	93.2	194.2	676.1	598.8	107.1	194.2	268.8	176.1	16.3	27.7	302.4	1576.2	461.2	2367.5
1899	3.8	26.5	22.9	310.1	208.7	709.8	274.3	120.9	80.8	334.6	32.0	7.4	30.3	541.7	1185.8	374.0	2131.8
1900	4.5	3.8	6.3	213.3	104.4	762.3	656.1	442.1	167.2	218.4	59.8	33.0	8.3	324.0	2027.7	311.2	2671.2
1901	24.5	36.4	57.0	138.6	146.6	780.7	598.1	289.7	176.9	280.2	369.0	44.6	60.9	342.2	1845.4	693.8	2942.3
1902	7.0	.9	56.9	80.0	135.0	403.3	1040.2	276.3	425.7	372.7	112.3	146.0	7.9	271.9	2145.5	631.0	3056.3
1903	2.6	19.0	1.4	76.8	277.7	576.7	851.7	357.7	288.5	367.3	154.2	61.0	21.6	355.9	2074.6	582.5	3034.6
1904	29.5	2.2	45.0	79.8	263.3	1075.2	631.6	273.9	198.4	315.6	25.0	7.9	31.7	388.1	2179.1	348.5	2947.4
1905	.1	7.2	10.5	80.0	249.4	734.2	497.4	254.9	200.6	373.2	76.1	.6	7.3	339.9	1687.1	449.9	2484.2
1906	20.2	8.1	7.7	49.0	160.5	397.7	858.6	353.4	114.3	249.9	156.2	77.1	28.3	217.2	1724.0	483.2	2452.7
1907	12.1	3.5	45.5	158.3	80.1	813.9	653.6	860.3	266.9	268.7	189.2	64.7	15.6	283.9	2594.7	522.6	3416.8
1908	3.9	23.1	41.4	94.3	132.4	590.5	933.8	320.4	205.3	289.3	50.7	14.1	27.0	268.1	2050.0	354.1	2699.2
1909	66.5	10.7	61.2	76.7	473.8	628.6	777.7	227.6	194.5	182.7	145.5	19.2	77.2	611.7	1828.4	347.4	2864.7
1910	.3	21.3	19.1	150.8	135.0	680.5	449.7	382.1	221.8	410.1	261.9	.0	21.6	304.9	1734.1	672.0	2732.6
1911	5.5	6.4	20.0	48.9	191.8	895.2	627.2	183.7	46.2	326.0	152.1	90.3	11.9	260.7	1752.3	568.4	2593.3
1912	.6	13.5	10.8	112.7	199.5	994.5	723.5	511.7	147.3	551.8	124.6	20.8	14.1	323.0	2377.0	697.2	3411.3
1913	1.8	17.3	20.5	72.6	233.9	516.8	653.0	196.1	188.2	440.8	91.9	40.0	19.1	327.0	1554.1	572.7	2472.9
1914	.0	6.7	15.7	35.2	193.7	616.9	781.4	398.8	223.0	412.0	85.5	157.2	6.7	244.6	2020.1	654.7	2926.1
1915	23.5	14.7	38.5	132.3	188.7	673.9	844.7	280.6	469.4	165.3	309.5	20.8	38.2	359.5	2268.6	495.6	3161.9
1916	.0	10.4	21.4	95.5	234.6	835.7	510.2	366.1	318.0	325.9	134.7	14.0	10.4	351.5	2030.0	474.6	2866.5
1917	.9	62.2	76.9	42.3	142.8	739.9	371.1	350.6	454.4	300.8	227.4	42.1	63.1	262.0	1916.0	570.3	2811.4
1918	47.1	3.3	13.8	61.6	731.5	570.9	152.5	329.7	97.3	230.0	272.9	64.1	50.4	806.9	1150.4	567.0	2574.7
1919	54.0	14.4	29.2	69.9	286.9	588.3	638.4	441.6	284.7	242.7	338.9	61.4	68.4	386.0	1953.0	643.0	3050.4
1920	24.8	4.0	31.0	202.2	69.5	1111.4	856.4	224.3	202.8	406.9	285.2	15.2	28.8	302.7	2394.9	707.3	3433.7
1921	39.1	4.5	15.5	182.8	111.3	479.3	548.1	653.9	138.5	335.5	140.5	9.5	43.6	309.6	1819.8	485.5	2658.5
1922	13.1	20.5	35.1	69.0	355.1	770.6	1071.5	259.9	216.4	233.4	278.3	17.4	33.6	459.2	2318.4	529.1	3340.3
1923	9.2	.0	89.1	40.9	81.2	748.4	823.3	829.1	265.2	187.7	89.1	35.6	9.2	211.2	2666.0	312.4	3198.8
1924	19.0	5.2	74.5	130.3	200.0	1014.5	1253.4	583.9	263.6	153.6	192.8	54.4	24.2	404.8	3115.4	400.8	3945.2
1925	.4	23.8	76.0	98.5	289.1	660.9	569.9	535.8	179.0	285.0	246.2	103.4	24.2	463.6	1945.6	634.6	3068.0
1926	18.5	4.6	20.5	41.6	253.0	649.2	801.7	435.6	338.3	249.0	122.8	17.3	23.1	315.1	2224.8	389.1	2952.1
1927	24.1	44.1	63.4	68.1	300.0	705.2	787.2	268.6	367.0	117.6	122.9	6.9	68.2	431.5	2128.0	247.4	2875.1
1928	11.9	74.5	45.1	108.7	73.1	536.6	407.6	514.6	84.7	322.5	127.7	45.2	86.4	226.9	1543.5	495.4	2352.2
1929	9.3	51.5	38.5	212.8	121.1	984.5	779.4	245.4	294.6	384.5	149.4	33.8	60.8	372.4	2303.9	567.7	3304.8
1930	24.3	8.2	58.5	100.7	440.8	596.8	371.0	243.5	399.4	408.9	188.5	81.6	32.5	600.0	1610.7	679.0	2922.2
1931	1.2	.9	7.2	104.6	157.5	575.4	606.4	1023.5	156.2	159.8	136.5	114.1	2.1	269.3	2361.5	410.4	3043.3
1932	.3	10.3	45.3	87.2	698.0	314.1	557.4	397.5	302.3	569.8	249.4	28.8	10.6	830.5	1571.3	848.0	3260.4
1933	.0	5.2	47.9	151.7	837.5	798.3	670.1	425.4	410.0	404.1	113.7	21.0	5.2	1037.1	2303.8	538.8	3884.9
1934	68.8	1.8	35.3	97.8	131.1	886.2	328.8	280.8	40.3	334.5	96.6	5.7	70.6	264.2	1536.1	436.8	2307.7
1935	27.5	7.0	30.2	120.3	42.7	420.9	615.9	274.3	254.2	383.7	146.6	12.0	34.5	193.2	1565.3	542.3	2335.3

34.KERALA AREA 38864 SQ.KM NO OF STATION 10

Monthly, Seasonal and Annual rainfall (in mm) data series : 1871-1994 (The values are approximate after 1990).

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANNUAL
1936	.7	21.7	115.4	54.9	532.5	607.5	640.5	302.5	304.4	234.1	212.6	16.6	22.4	702.8	1854.9	463.3	3043.4
1937	11.1	19.6	55.3	169.9	128.1	495.1	987.1	273.0	136.9	397.4	117.9	20.6	30.7	353.3	1892.1	535.9	2812.0
1938	.0	87.6	40.6	176.2	181.2	634.1	636.8	289.3	199.3	171.5	63.8	20.4	87.6	398.0	1759.5	255.7	2500.8
1939	9.0	4.5	20.8	226.5	139.2	694.3	708.8	327.7	136.3	304.3	316.7	7.4	13.5	386.5	1867.1	628.4	2895.5
1940	.3	.0	.1	119.5	243.1	590.6	895.0	603.1	40.6	310.2	254.4	45.0	.3	362.7	2129.3	609.6	3101.9
1941	18.2	4.7	8.5	104.9	483.2	734.9	431.1	408.7	291.4	235.7	223.0	90.1	22.9	596.6	1866.1	548.8	3034.4
1942	.0	2.5	21.0	151.1	214.3	881.5	724.6	256.3	82.2	407.5	89.3	146.5	2.5	386.4	1944.6	643.3	2976.8
1943	60.0	16.1	50.7	109.0	520.4	917.4	665.5	165.7	245.6	425.5	245.4	19.3	76.1	680.1	1994.2	690.2	3440.6
1944	49.5	37.4	67.8	63.4	237.7	498.0	550.1	190.9	135.1	273.1	235.7	79.0	86.9	368.9	1374.1	587.8	2417.7
1945	8.2	20.9	6.5	95.7	41.2	557.4	687.5	345.4	101.8	242.3	283.5	19.8	29.1	143.4	1692.1	545.6	2410.2
1946	.2	1.3	128.6	159.0	102.2	946.3	679.3	613.6	206.2	272.0	313.1	221.1	1.5	389.8	2445.4	806.2	3642.9
1947	22.0	34.9	92.2	146.9	87.0	628.5	631.5	751.7	424.2	157.1	20.3	39.7	56.9	326.1	2435.9	217.1	3036.0
1948	31.9	5.6	75.7	116.1	215.4	961.2	606.2	381.5	149.3	176.3	223.4	28.1	37.5	407.2	2098.2	427.8	2970.7
1949	.6	2.5	2.3	109.0	478.2	541.4	747.0	418.2	362.0	209.2	84.4	.3	3.1	589.5	2068.6	293.9	2955.1
1950	.0	58.7	37.0	66.5	270.7	617.5	817.8	407.3	389.4	264.8	204.3	6.4	58.7	374.2	2232.0	475.5	3140.4
1951	3.7	2.8	57.2	172.2	138.5	815.7	453.6	152.2	306.6	260.8	214.4	29.0	6.5	367.9	1728.1	504.2	2606.7
1952	3.4	45.7	27.9	126.8	266.9	606.6	393.2	386.0	46.4	302.2	49.5	59.3	49.1	421.6	1432.2	411.0	2313.9
1953	12.0	19.2	18.0	127.4	63.5	309.3	1030.2	247.7	104.9	457.1	91.5	4.2	31.2	208.9	1692.1	552.8	2485.0
1954	26.9	6.0	102.7	160.7	237.1	846.8	569.5	391.7	199.9	276.0	40.5	67.5	32.9	500.5	2007.9	384.0	2925.3
1955	1.5	13.0	42.5	127.5	544.4	762.5	366.2	195.5	450.3	432.5	210.9	11.5	14.5	714.4	1774.5	654.9	3158.3
1956	4.4	11.0	14.6	194.2	412.5	740.5	343.4	270.5	168.8	415.9	177.2	4.5	15.4	621.3	1523.2	597.6	2757.5
1957	1.3	17.1	33.7	87.4	408.4	892.9	787.7	338.4	36.0	269.1	169.3	37.6	18.4	529.5	2055.0	476.0	3078.9
1958	5.8	29.1	60.9	117.7	386.1	781.5	484.3	421.2	57.4	179.6	174.1	6.2	34.9	564.7	1744.4	359.9	2703.9
1959	.1	15.3	9.5	161.5	395.4	714.6	906.3	375.9	352.0	191.2	146.0	31.9	15.4	566.4	2348.8	369.1	3299.7
1960	12.0	8.6	36.6	195.0	593.3	517.3	673.7	328.0	348.9	234.1	362.1	18.4	20.6	824.9	1867.9	614.6	3328.0
1961	11.5	40.9	12.4	89.9	461.8	961.3	952.4	637.3	392.4	256.0	77.8	13.5	52.4	564.1	2943.4	347.3	3907.2
1962	33.5	50.9	26.5	77.5	501.8	277.2	868.8	474.5	328.4	417.6	25.0	62.5	84.4	605.8	1948.9	505.1	3144.2
1963	27.3	34.8	60.6	89.8	133.3	413.8	690.5	493.6	224.2	204.5	94.2	34.7	62.1	283.7	1822.1	333.4	2501.3
1964	1.3	6.0	81.9	72.2	96.9	337.9	715.7	388.0	397.5	343.8	127.4	12.9	7.3	251.0	1839.1	484.1	2581.5
1965	4.7	2.8	19.7	95.5	207.9	581.1	424.4	299.4	159.6	168.4	100.4	154.4	7.5	323.1	1464.5	423.2	2218.3
1966	1.3	11.6	44.6	92.6	75.7	515.8	462.8	150.4	276.2	440.3	262.7	53.7	12.9	212.9	1405.2	756.7	2387.7
1967	31.2	.0	24.3	44.1	266.1	589.3	724.6	557.8	139.3	192.9	84.1	41.3	31.2	334.5	2011.0	318.3	2695.0
1968	6.1	36.2	102.9	144.3	94.0	685.8	1281.1	362.6	279.9	147.9	133.0	25.3	42.3	341.2	2609.4	306.2	3299.1
1969	4.6	2.3	21.1	135.2	225.3	581.7	794.3	274.9	199.0	282.3	113.0	82.9	6.9	381.6	1849.9	478.2	2716.6
1970	15.7	12.9	40.8	165.8	255.7	576.3	543.9	547.3	222.2	297.3	57.3	2.4	28.6	462.3	1889.7	357.0	2737.6
1971	47.4	25.6	25.7	103.7	345.7	875.2	632.5	379.2	351.5	194.2	36.6	41.3	73.0	475.1	2238.4	272.1	3058.6
1972	2.6	8.6	3.3	91.9	506.7	416.6	700.0	279.7	177.2	378.0	153.3	114.0	11.2	601.9	1573.5	645.3	2831.9
1973	.0	.0	7.9	137.3	122.7	648.4	529.8	475.7	66.8	300.8	86.8	31.0	.0	267.9	1720.7	418.6	2407.2
1974	1.5	12.2	18.7	155.3	314.7	289.9	988.7	522.7	409.3	157.8	71.6	3.4	13.7	488.7	2210.6	232.8	2945.8
1975	1.6	32.0	88.7	162.7	173.0	909.2	509.4	644.5	458.5	398.5	197.8	18.0	33.6	424.4	2521.6	614.3	3593.9
1976	.1	.0	23.4	173.2	110.0	222.5	608.0	323.6	106.5	252.7	327.9	24.1	.1	306.6	1260.6	604.7	2172.0
1977	1.1	9.1	42.2	111.1	372.2	618.3	731.8	238.9	200.8	432.6	379.8	15.8	10.2	525.5	1789.8	828.2	3153.7
1978	6.8	38.4	37.9	75.3	420.6	767.1	679.7	466.3	134.7	148.8	375.5	18.4	45.2	533.8	2047.8	542.7	3169.5
1979	1.9	44.0	8.5	67.2	136.9	672.5	597.7	334.1	264.1	207.8	327.8	36.8	45.9	212.6	1868.4	572.4	2699.3
1980	.1	9.3	27.4	116.2	123.3	759.3	701.1	370.2	144.8	306.3	180.0	54.2	9.4	266.9	1975.4	540.5	2792.2
1981	7.5	16.7	41.8	110.4	225.7	1123.7	450.0	514.7	438.0	279.2	158.0	18.6	24.2	377.9	2526.4	455.8	3384.3
1982	.0	.1	34.7	62.5	211.1	714.5	502.8	454.7	77.4	180.0	139.3	12.1	.1	308.3	1749.4	331.4	2389.2
1983	.3	.0	.0	31.0	69.2	331.6	597.6	595.2	529.6	125.9	161.5	74.2	.3	100.2	2054.0	361.6	2516.1
1984	40.8	72.6	112.7	221.3	116.3	713.6	532.6	230.9	145.2	250.7	75.6	21.2	113.4	450.3	1622.3	347.5	2533.5
1985	55.0	16.6	38.5	100.0	301.8	836.5	393.1	301.4	116.1	244.0	97.0	32.7	71.6	440.3	1647.1	373.7	2532.7
1986	2.4	24.1	32.8	95.4	110.7	610.8	316.7	363.6	237.7	145.7	200.3	7.0	26.5	238.9	1528.8	353.0	2147.2
1987	1.0	.9	9.9	86.8	118.6	628.9	238.2	430.0	159.5	295.6	209.1	128.2	1.9	215.3	1456.6	632.9	2306.7
1988	.0	19.4	45.5	167.9	157.2	613.8	562.4	411.6	463.1	82.3	72.0	30.9	19.4	370.6	2050.9	185.2	2626.1
1989	8.9	.1	19.3	130.1	166.5	747.2	451.5	292.0	272.6	337.9	82.3	6.6	9.0	315.9	1763.3	426.8	2515.0
1990	11.2	2.2	24.0	28.7	520.0	494.8	655.9	252.7	113.9	355.7	146.9	.1	13.4	572.7	1517.3	502.7	2606.1
MEAN	11.6	16.2	36.3	111.4	246.5	688.4	645.0	378.8	226.1	279.1	154.6	38.3	27.8	394.3	1938.3	472.0	2832.4
PER ANN	.4	.6	1.3	3.9	8.7	24.3	22.8	13.4	8.0	9.9	5.5	1.4	1.0	13.9	68.4	16.7	100.0
STD	17.6	18.5	28.5	51.9	158.6	198.1	208.7	162.5	122.4	103.7	85.8	38.7	26.2	161.0	374.4	146.9	418.6
COV	151.8	114.7	78.4	46.6	64.3	28.8	32.4	42.9	54.1	37.1	55.5	101.2	94.2	40.8	19.3	31.1	14.8
1991	11.6	5.1	31.6	98.5	114.6	1079.9	710.3	411.1	45.8	277.2	94.3	2.7	16.7	244.7	2247.1	374.2	2882.7
1992	2.3	1.0	.0	44.0	225.4	808.8	633.1	438.9	271.9	303.5	319.9	5.0	3.3	269.4	2152.7	628.4	3053.8
1993	.0	16.8	9.2	69.2	148.9	745.8	720.8	213.2	74.4	418.2	250.2	73.5	16.8	227.3	1754.2	741.9	2740.2
1994	20.4	41.5	16.2	145.5	148.3	800.4	809.6	461.1	171.6	400.7	138.4	5.3	61.9	310.0	2242.7	544.4	3159.0