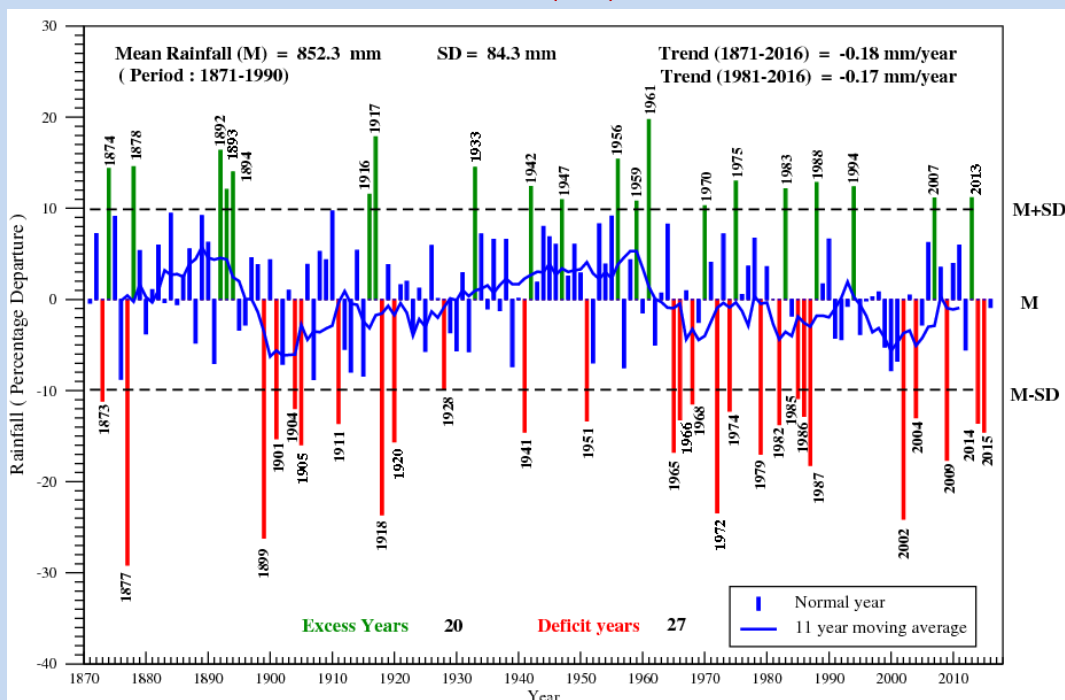


Monthly, Seasonal and Annual Rainfall Time Series for All-India, Homogeneous Regions and Meteorological Subdivisions: 1871-2016

All-India summer monsoon (JJAS) rainfall: 1871-2016



D.R. Kothawale and M. Rajeevan



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Abstract

In this scientific research report, monthly, seasonal and annual area weighted rainfall time series for all-India, 5 homogeneous regions and 30 meteorological subdivisions for the period 1871-2016 are constructed on the basis of a fixed and well distributed network of 306 rain gauge stations over India. Summer monsoon rainfall percentage departure series for all-India, homogeneous regions and all the subdivisions have been plotted indicating the excess, deficit and normal monsoon years. The statistical characteristics of the series i.e. Mean, Standard Deviation, Trend for different periods (1871-2016: Entire period and 1981-2016 : Recent period) are also shown in the diagrams.

Summary

All-India monsoon rainfall shows very weak decreasing trend of -0.18 mm and -0.17 mm per year for the period 1871-2016 and 1981-2016 respectively. During the recent period 1981-2016, on the sub-divisional scale, East Rajasthan and Saurashtra, Kutch & Diu show significant increasing trend in monsoon rainfall at 10% and 5% significance level respectively. Whereas, there are 3 subdivisions namely East Uttar Pradesh, Assam and Meghalaya and Sub-Himalayan West Bengal which show significant decreasing trend at 1%, 10 % and 10 % significance level respectively.

The recent period mean seasonal rainfall of India as whole is decreased by 24.0 mm from the mean seasonal rainfall based on the period 1871-1980. However, change in mean rainfall is not statistically significant. While, mean seasonal rainfall of Central Northeast India and Northeast India for the recent period is significantly reduced from the period 1871-1980. On the sub-divisional scale, the mean seasonal rainfall based on the period 1981-2016 is significantly reduced from mean seasonal rainfall for the period 1871-1980 over the 7 subdivisions 1) Assam & Meghalaya, 2) Nagaland, Mani., Mizoram & Tripura, 3) East Uttar Pradesh, 4) West Uttar Pradesh, 5) East Madhya Pradesh, 6) Chhattisgarh and 7) Kerala and increased over 2 subdivisions 1) Konkan & Goa and 2) Coastal Andhra Pradesh.

The information of regional and sub-divisional rainfall is very much useful to the Researchers, Policy makers and Governmental agencies. This report is updated version of earlier IITM Research Report (Parthasarthy et al. 1995).

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1 Introduction

The variability of the Indian summer monsoon (ISM) affects the agriculture food grain production, industry and generation of hydroelectric power, causing severe strain on the national economy. Large parts of the country are severely affected due to deficit monsoon rainfall and government of India spends large amount of money on providing relief in affected areas. Importance of ISM to Indian economy and as major global circulation parameter has motivated many scientists to study the variability of Indian monsoon, in the past. During the last 4 to 5 decades, the rainfall series have been tabulated and the interannual variability of monsoon rainfall has been rigorously examined by several researchers, notably by Parthasarathy and Dhar (1976), Parthasarathy and Mooley (1978), Alvi and Koteswarm (1998), Thapliyal and Kulshresta (1991), Srivastava et al. (1992). These series were prepared with the number of rain gauge stations varying from 300 to 3,000 spread all over India for the different length of period starting from 1841 onwards. Recently Guhathakurtha and Rajeevan (2008) constructed monthly, seasonal and annual rainfall time series of 36 meteorological subdivisions of India (Figure 1) and India as one unit using the monthly rainfall data for the period 1901-2003 with fixed network of 1476 rain gauge stations and later updated by Gughathakurta et al. (2015). They found a very good agreement between all-India summer monsoon rainfall series constructed by them and IITM rainfall data series. The correlation between these two series is 0.97.

Parthasarathy et al. (1995) have prepared monthly, seasonal and annual rainfall time series for all-India, 29 meteorological subdivisions and 5 homogeneous regions on the basis of fixed 306 rain gauge stations for the period 1871-1990. These rainfall series were updated time to time up to the 2014. However, the rainfall time series for the period 1991 to 2014 were not based on fixed network of 306 stations due to insufficient availability of station rainfall data. Hence, rainfall series for the period 1991 to the latest available period (2014) were constructed by using sub-divisional rainfall data obtained from India Meteorological Department (IMD) by applying method given by Parthasarathy et al. (1992b) to maintain the consistency with rainfall series based on the station data.

In the present Research Report, maximum efforts have been made to update the monthly rainfall data of 306 stations for the period 1991 to the recent available (up to 2014) and all-India, homogeneous regions and sub-divisional rainfall series were constructed for the same period. However, due to insufficient availability of stations data

for the period 2014-2016 the rainfall series of all-India, homogeneous regions and few subdivisions were constructed from IMD sub-divisional rainfall, as mentioned above.

2 Details of rainfall data and Methodology

The validity of any statistical analysis depends on the quality of the data network of the stations used in the analysis. The number of rain gauge stations in the country has increased from about 50 in 1850 to 5,000 in 1990 (Parthasarthy et al. 1995). To avoid inhomogeneity, the initial screening of all the available data sets have been made and 306 rain gauge stations, one from each of the districts in the plain regions of India and distributed fairly uniform over the country, were selected to form the network of rain gauge stations in this report. A care has been taken to exclude a non-homogeneous record and only reliable or corrected stations data have been used to construct area averaged rainfall series. The earliest year for which reliable data are available for these stations is 1871. The relevant monthly rainfall data of 306 stations have been obtained for the period 1871 to the present from the records of IMD, Pune. The hilly regions consisting of four subdivisions in Himalayas (hatched areas in Figure 2, subdivision number 2, 12, 15 and 16) have not been considered in view of the inadequate rain gauge network and low areal representation of a rain gauge in a hilly area; moreover these regions receive substantial rainfall in the other seasons than the monsoon season. The island in the Bay of Bengal (subdivision number 1) and the Arabian sea (subdivision number 36) 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% 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 rain gauge stations for the period 1901-50 (Rao, 1976, IMD, 1981). This shows that the rainfall stations selected in this study are adequately representative.

The main source of monthly rainfall data of the 306 stations is National Data Center, IMD Pune. However, rainfall data of some of the 306 stations were not readily available in the published form or in the form of soft copy with IMD Pune. Hence, attempts were made to fill up the missing rainfall values from the different data sources i. e. Irrigation Dept., Revenue Dept., Agriculture Department of State Government, Regional Meteorological Centre of respective stations, Indian Daily Weather Reports

(IDWR) and Monthly Climatic Data for the World. The quality and homogeneity of the obtained data were examined critically. After filling the missing rainfall values, 93 to 97% of the 306 stations rainfall data are available for the period 1991-2014 except the 2014, where 75% of the 306 stations data are available. On the sub-divisional scale, 90 to 100% stations rainfall data out of total number of stations in those sub-division are available for the period 1991-2014. However, for very few subdivisions, 70 to 80 % stations rainfall data are available for the year 2013 and 2014. Lastly, remaining missing monthly rainfall values were estimated by the technique mentioned by Parthasarthy et al. (1992b). The technique is as follow.

$$R_{STN(i,j)} = R_{SD(i,j)} * \frac{R_{STN(j)}}{R_{SD(j)}}$$

Where,

$R_{STN(i, j)}$ = Station Rainfall, $R_{SD(i, j)}$ = Sub-divisional Rainfall, $R_{STN(j)}$ = Station mean Rainfall, $R_{SD(j)}$ = Subdivisional mean Rainfall, i is the year & j is the month.

3 Quality control of the data

Quality control measures were also taken up to identify outliers/errors in data archival process, such as keying or printing mistakes. The following procedures were followed to identify outliers/errors in the data sets.

- The monthly rainfall values for individual stations that differ from their corresponding long term means by more than four times their standard deviation were listed .
- The monthly rainfall of some of the 306 stations are reported in the IDWR and identified outlier values of these stations were checked from it and ensured, and finally outlier values were replaced by IDWR values. However, for some of the stations data are not reported in the IDWR, rainfall data of such stations were checked with rainfall of surrounding stations as well as percentage departure of respective sub-divisional rainfall. The synoptic systems during that month over that region have also been checked. If the identified outlier value is consistent with surrounding stations rainfall values and the respective station sub-divisional percentage departure rainfall of that month, then it is not treated as outlier. The identified outlier values were put as missing (-99.9), and those values were

interpolated as discussed above. During keying the data, the rainfall of very few stations for monsoon months (June-September) were wrongly reported as zero. For these stations, location of station and monsoon onset dates were checked for June and July months, and for August and September values were checked as per above discussed method and finally these values were interpolated as per above technique.

4 Preparation of All-India, Homogeneous region and Sub-divisional rainfall series

Figure 1 shows the Meteorological subdivisions into which the country has been divided. Area weighted mean monthly rainfall (January through December) for each of the 30 meteorological subdivisions (Figure 2) have been prepared by assigning the district area as a weight for each respective rain gauge station for the period 1871-2014. However, for very few subdivisions, availability of stations data for the years 2013 and 2014 were not sufficient (less than 80 % of total stations available in the subdivisions). Hence, the sub-divisional rainfall for those years were constructed by using IMD sub-divisional rainfall data as procedure given by Parthasarthy et al. (1992 a), and these years were also mentioned in respective sub-divisional rainfall time series listing as well as in corresponding figure. For the years 2015 and 2016, monthly rainfall of all the 306 stations are not readily available. Hence, the rainfall series of 2015 and 2016 of all the subdivisions were prepared from IMD sub divisional rainfall as mentioned above.

All-India (India taken as one unit) average monthly rainfall values were computed by weighing each of the 30 sub-divisional rainfall, with their corresponding area as a weight for the period 1871-2016. The country is then divided into five homogeneous regions on the basis of similarity in rainfall characteristics and association of sub divisional 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) Peninsular (PEN). Figure 2 shows these five homogeneous 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 subdivisions, for the period 1871-2016. It is to be noted that the all-India and regional rainfall for the period 1871-2013 are based on station rainfall data due to inadequate availability of station rainfall data for the period 2014 to 2016, the rainfall for these 3 years were prepared from IMD sub-divisional rainfall as discussed earlier. The information of regional and sub-divisional rainfall is very

much useful to the Researchers, Policy makers and Governmental agencies. This report is updated version of earlier IITM Research Report (Parthasarthy et al. 1995).

5 Statistical Characteristics of All-India, Homogeneous regions and Sub-divisional rainfall series

The monsoon rainfall is very much important to the Indian economy and studies of global circulations. Hence, important statistical characteristics (Mean (M), Standard Deviation (SD) and Coefficient of Variation (CV)) of monthly and seasonal rainfall series of 30 subdivisions, 5 homogeneous regions and all-India for the period 1871-2016 have been computed and given in the Table 1 - 36. For India as a whole, the monsoon months June, July, August and September are main rainy months. The mean rainfall of June, July, August and September is 163.1, 272.5, 242.2 and 170.3 mm respectively. The rainfall of July month is the highest and contributes 25 % of annual rainfall (1085.9 mm, Percentage to Annual: P-Ann.). The August rainfall is slightly less than that of July and contributes 22.3 % of the annual rainfall. The June and September rainfalls are almost same and they contribute 15.1 % and 15.7 % of the annual rainfall respectively. The year has been divided into four seasons viz., Winter (January+February: J+F), Pre-monsoon (March+April+May: MAM), Southwest Monsoon (June to September: JJAS) and Post Monsoon (October +November+December: OND) and the mean seasonal rainfall are 23.2 mm, 94.4 mm, 848.1 mm and 120.1 mm respectively. The Winter, Pre-Monsoon, Monsoon and Post-monsoon season contribute 2.1%, 8.7%, 78.1% and 11.1% of annual rainfall respectively. The CV is low in monsoon season 9.8 % and the highest in winter season 49.9%.

Abnormalities in the performance of Southwest monsoon rainfall over different parts of India have a significant impact on national economy. The abnormalities in the performance of Southwest monsoon rainfall is the occurrence of excess or deficit monsoon rainfall. Hence, all-India, homogeneous regions and sub-divisional monsoon rainfall of each year has been classified into three categories viz., Excess, Deficit and Normal as follows

Excess : $R \geq M+SD$

Deficit : $R \leq M-SD$

Normal : $M-SD < R < M+SD$

Where M and SD are Mean and Standard Deviation of seasonal rainfall time series, R is seasonal rainfall. The criteria used in this study is taken from Parthasarathy et al. (1992b). For all-India, during the period 1871-2016, seasonal rainfall was excess in 20 years (green bars), deficit in 27 years (red bars) and normal in 99 years (blue bars) (Figure 3). It is observed that there are relatively more frequent deficit years (10) during the period 1961-1990. During the recent period (1981-2016, 36 years) deficit years are 9 and out of 9, 4 years (1982, 1985, 1986 and 1987) are common in both periods. The linear trend in seasonal rainfall series have been examined for the entire 1871-2016 as well as recent period 1981-2016 and very weak decreasing trend of -0.18 mm and -0.17 mm per year is observed respectively (Figure 3).

For the country as a whole, the summer monsoon rainfall do not show any significant trend. However, there may be large variation in the regional scale. In order to study the long term changes in regional as well as sub divisional scale, we have carried out linear trend analysis using monsoon season rainfall of five homogeneous regions and 30 meteorological subdivisions for the period 1871-2016 and recent period 1981-2016. The significance of trend has been assessed by Mann Kendall rank statistic test. Year wise variation in the summer monsoon rainfall indicating excess, deficit and normal years during the period 1871-2016 of all-India, 5 homogeneous regions and 30 meteorological are shown in the Figures 3 to 38. The statistical characteristics of all-India, homogeneous regions and subdivisions are also given in the Figure 3 to 38. During the entire period 1871-2016, three subdivisions viz., Konkan & Goa, Coastal Karnataka and Coastal Andhra Pradesh show significant increasing trend at 1%, 5 % and 1% level of significance respectively. While, 7 subdivisions viz., Assam & Meghalaya (5%), Nagaland, Manipur, Mizoram and Tripura (1%), East Uttar Pradesh (5%), West Uttar Pradesh (5%), East Madhya Pradesh (1%), Chhattisgarh (1%) and Kerala (10%) show significant decreasing trend (Table 37, numbers in the brackets are level of significance).

During the recent period 1981-2016, three subdivisions namely East Uttar Pradesh (1%), Assam and Meghalaya (10%) and Sub Himalayan West Bengal (10%) show significant decreasing trend, while only two subdivisions viz., East Rajasthan and Saurashtra, Kutch & Diu show significant increasing trend at 10 % and 5 % significance level respectively (Table 37, Figure 21 and Figure 25).

Keeping the view that the recent period is an accelerated warming period (Kothawale and Rupa Kumar 2005, Kothawale et al. 2010) and climate regime shift has been observed in 1980s (Terry and Dominiak 2005), all-India, regional and sub-divisional rainfall series were divided in two parts i. e. 1871-1980 and 1981-2016 and the means of summer monsoon seasonal rainfall have been computed for all-India, homogeneous regions and 30 meteorological subdivisions for both periods and change between their rainfall means were examined. It is observed that mean seasonal rainfall of the period 1981-2016 is less than that of mean rainfall of the period 1871-1980 for the 18 subdivisions and also for all-India (Figure 40). Out of 18 subdivisions, the mean seasonal rainfall based on the period 1981-2016 is significantly reduced from mean seasonal rainfall for the period 1871-1980 over the 7 subdivisions viz., Assam & Meghalaya (5%), Nagaland, Manipur, Mizoram and Tripura (5%), East Uttar Pradesh (5%), West Uttar Pradesh (10%), East Madhya Pradesh (5%), Chhattisgarh (5%) and Kerala (10%), and increased over 2 subdivisions Konkan & Goa and Coastal Andhra Pradesh, at 5% significance level (Figure 40). The significance of change is tested by student t-test. India as whole, mean monsoon season rainfall for the period 1871-1980 and 1981-2016 are 854.1 mm and 830.1 mm respectively. The recent period mean seasonal rainfall is decreased by 24 mm from the mean rainfall based on the period 1871-1980. However, change in mean rainfall is not statistically significant. The mean seasonal rainfall of Central Northeast India and Northeast India for the recent period is significantly reduced from the period 1871-1980. The probability of occurrence of excess/deficit monsoon is computed for all-India and 30 subdivisions. The probability of occurrence of deficit monsoon is very less (10%) over Konkan & Goa and is the highest over Assam & Meghalaya and East Madhya Pradesh (21.2 %). India as whole, probability of deficit /excess monsoon year is 19/14 %.

Summary

- Monthly, seasonal and annual rainfall series have been prepared for all-India (India taken as one unit), 5 homogeneous regions and 30 meteorological sub-divisions after thoroughly scrutinizing the 306 rain gauge stations for the period 1871-2016 and their statistical characteristics and long term variability are discussed.
- Monthly and seasonal rainfall data listing of all-India, 5 homogeneous regions and 30 meteorological subdivisions are given to meet needs of researchers working on Indian rainfall.
- Southwest monsoon rainfall (% departures) of India as whole, 5 homogeneous regions and 30 subdivisions are presented indicating excess, deficit and normal monsoon years as well as trend for two periods 1871-2016 and 1981-2016.
- All-India monsoon rainfall shows very weak decreasing trend of -0.18 mm and -0.17 mm per year for the period 1871-2016 and 1981-2016 respectively. During the recent period 1981-2016, on the sub-divisional scale, East Rajasthan and Saurashtra, Kutch & Diu show significant increasing trend in monsoon rainfall at 10% and 5 % significance level respectively. Whereas, there are 3 subdivisions namely East Uttar Pradesh, Assam and Meghalaya and Sub-Himalayan West Bengal show significant decreasing trend at 1% , 10 % and 10 % significance level respectively.
- The recent period mean seasonal rainfall of India as whole is decreased by 24.0 mm from the mean rainfall based on the period 1871-1980. However, change in mean rainfall is not statistically significant. However, mean seasonal rainfall of Central Northeast India and Northeast India for the recent period is significantly reduced from the period 1871-1980.
- On the sub-divisional scale, the mean seasonal rainfall based on the period 1981-2016 is significantly reduced from mean seasonal rainfall for the period 1871-1980 over the 7 subdivisions 1) Assam & Meghalaya, 2) Nagaland, Mani. Mizoram & Tripura, 3) East Uttar Pradesh, 4) West Uttar Pradesh, 5) East Madhya Pradesh, 6) Chhattisgarh and 7) Kerala and increased over 2 subdivisions 1) Konkan & Goa and 2) Coastal Andhra Pradesh

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Figure Captions

Figure 1: Meteorological subdivisions of India.

Figure 2: Different Homogeneous regions of India

Figure 3 : All-India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 4: Northwest India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 5: West Central India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 6: Central Northeast India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 7: Northeast India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 8: Peninsular India Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 9: Assam and Meghalaya subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

Figure 10: Nagaland, Manipur, Mizoram and Tripura subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, ** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

- Figure 11: Sub Himalayan West Bengal & Sikkim subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significant at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 12: Gangetic West Bengal subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)
- Figure 13: Orissa subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 14: Jharkhand subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 15: Bihar subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 16: East Uttar Pradesh subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)
- Figure 17: West Uttar Pradesh subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)
- Figure 18: Haryana, Chandigarh & Delhi subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 19: Punjab subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 20: West Rajasthan subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 21: East Rajasthan subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 22: West Madhya Pradesh Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)
- Figure 23: East Madhya Pradesh Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

- Figure 24: Gujarat subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD sub divisional rainfall)
- Figure 25: Saurashtra, Kutch & Diu subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significant at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 26: Konkan & Goa subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 27: Madhya Maharashtra subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significant at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 28: Marathwada subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 29: Vidarbha subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 30: Chhattisgarh subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)
- Figure 31: Coastal Andhra Pradesh subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)
- Figure 32: Telengana subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)
- Figure 33: Rayalseema subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 34: Tamil Nadu & Pondicherry Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 35: Coastal Karnataka subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 36: North Interior Karnataka subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significant at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)
- Figure 37: South Interior Karnataka subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, * ,** and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

Figure 38: Kerala subdivision Summer monsoon (JJAS) rainfall : 1871-2016. (Trend – mm/year, *, **, and *** significance at 10%, 5% and 1% level, rainfall for the periods 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

Figure 39: Trends in summer monsoon rainfall of 30 meteorological subdivisions, 5 homogeneous regions and All-India for the period 1871-1980 and 1981-2016. (*, ** and *** significance at 10%, 5% and 1% level)

Figure 40 : Comparison between mean summer monsoon rainfall based on the period 1871-1990 and 1981-2016 for 30 meteorological subdivisions, 5 homogeneous regions and All-India (* and ** significance at 10% and 5 % level)

Table

Table 1: ALL-INDIA RAINFALL (1871-2016) 30 SUBDIVISIONS, AREA 2880324 SQ.KM. Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 2: NORTHWEST INDIA RAINFALL (1871-2016) 6 SUB, AREA 634272 SQ.KM Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2013 (1871-2014 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 3: WEST CENTRAL INDIA RAINFALL(1871-2016) 9 SUBDIVISIONS, AREA 962694 SQ.KM Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 4: NORTHEAST INDIA RAINFALL (1871-2016) 4 SUBDIVISIONS, AREA 267444 SQ.KM Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 5: CENTRAL NORTHEAST INDIA RAINFALL (1871-2016) 4 SUBDIVISIONS, AREA 267444 SQ.KM. Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 6 : PENINSULAR INDIA RAINFALL (1871-2016) 6 SUBDIVISIONS, AREA 442908 SQ.KM Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 7: ASSAM & MEGHALAYA SUBDIVISION, AREA 109096 SQ.KM 3.79 PER, 10 STN Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 8: NAGA.MANI.MIZO.&TRIP SUBDIVISION, AREA 70495 SQ.KM 2.45 PER, 4 STN Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 9: SUB-HIMA. WEST BENGAL SUBDIVISION, AREA 21625 SQ.KM 0.75 PER, 5 STN Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 10: GANGETIC WEST BENGAL SUBDIVISION, AREA 66228 SQ.KM 2.30 PER, 11 STN Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall)

Table 11: ORISSA SUBDIVISION, AREA 155842 SQ.KM. 5.41 PER, 13 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 12: JHARKHAND SUBDIVISION, AREA 79638 SQ.KM 2.76 PER , 6 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 13: BIHAR SUBDIVISION, AREA 94235 SQ.KM 3.27 PER , 11 STN

Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 14: EAST UTTAR PRADESH SUBDIVISION, AREA 146509 SQ.KM 5.09 PER, 26 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall)

Table 15: WEST UTTAR PRADESH PLAINS, SUBDIVISION , AREA 96782 SQ.KM 3.36 PER, 19

STN Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall).

Table 16: HARYANA, CHANDIGARH & DELHI SUBDIVISION, AREA 45698 SQ.KM 1.59 PER

12 STN Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 17: PUNJAB SUBDIVISION, AREA 50376 SQ.KM 1.75 PER, 10 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 18: WEST RAJASTHAN SUBDIVISION, AREA 195086 SQ.KM 6.77 PER, 9 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 19: EAST RAJASTHAN SUBDIVISION, AREA 147128 SQ.KM 5.11 PER, 17 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 20: WEST MADHYA PRADESH SUBDIVISION, AREA 175317 SQ.KM 6.09 PER, 22 STN

Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 21: EAST MADHYA PRADESH SUBDIVISION, AREA 135156 SQ.KM 4.69 PER, 15 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

Table 22: GUJARAT SUBDIVISION, AREA 86034 SQ.KM 2.99 PER, 11 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 23: SAURASHTRA , KUTCH & DIU SUBDIVISION, AREA 109950 SQ.KM 3.82 PER, 7 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 24: KONKAN AND GOA SUBDIVISION, AREA 34095 SQ.KM 1.18 PER, 5 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 25: MADHYA MAHARASHTRA SUBDIVISION, AREA 115306 SQ.KM 4.00 PER, 9 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 26: MARATHWADA SUBDIVISION, AREA 64525 SQ.KM 2.24 PER, 5 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 27: VIDARBHA SUBDIVISION, AREA 97536 SQ.KM 3.39 PER, 8 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 28: CHATTISGARH SUBDIVISION, AREA 146138 SQ.KM 5.07 PER, 6 STN

Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall).

Table 29: COASTAL ANDHR SUBDIVISION, AREA 93045 SQ.KM 3.23 PER, 8 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall).

Table 30: TELANGANA SUBDIVISION, AREA 114726 SQ.KM 3.98 PER, 9 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall).

Table 31: RAYALASEEMA SUBDIVISION, AREA 69043 SQ.KM 2.40 PER, 4 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 32: TAMIL NADU & PONDICHERRY SUBDIVISION, AREA 130068 SQ.KM 4.52 PER, 15

STN Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 33: COASTAL KARNATAKA SUBDIVISION, AREA 18717 SQ.KM 0.65 PER, 2 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 34: N. INT. KARNATAKA SUBDIVISION, AREA 79895 SQ.KM 2.77 PER 6 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall).

Table 35: SOUTH. INT. KARNATAKA SUBDIVISION, AREA 93171 SQ.KM 3.23 PER, 11 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall).

Table 36: KERALA SUBDIVISION, AREA 38864 SQ.KM 1.35 PER 10 STN

Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306 stations and 2015-2016 based on IMD Subdivisional rainfall)

Table 37: Trends (mm/year) in summer monsoon (JJAS) rainfall for the period 1871-2016 and 1981-2016 for all-India and 30 meteorological subdivisions.

Meteorological Subdivisions of India

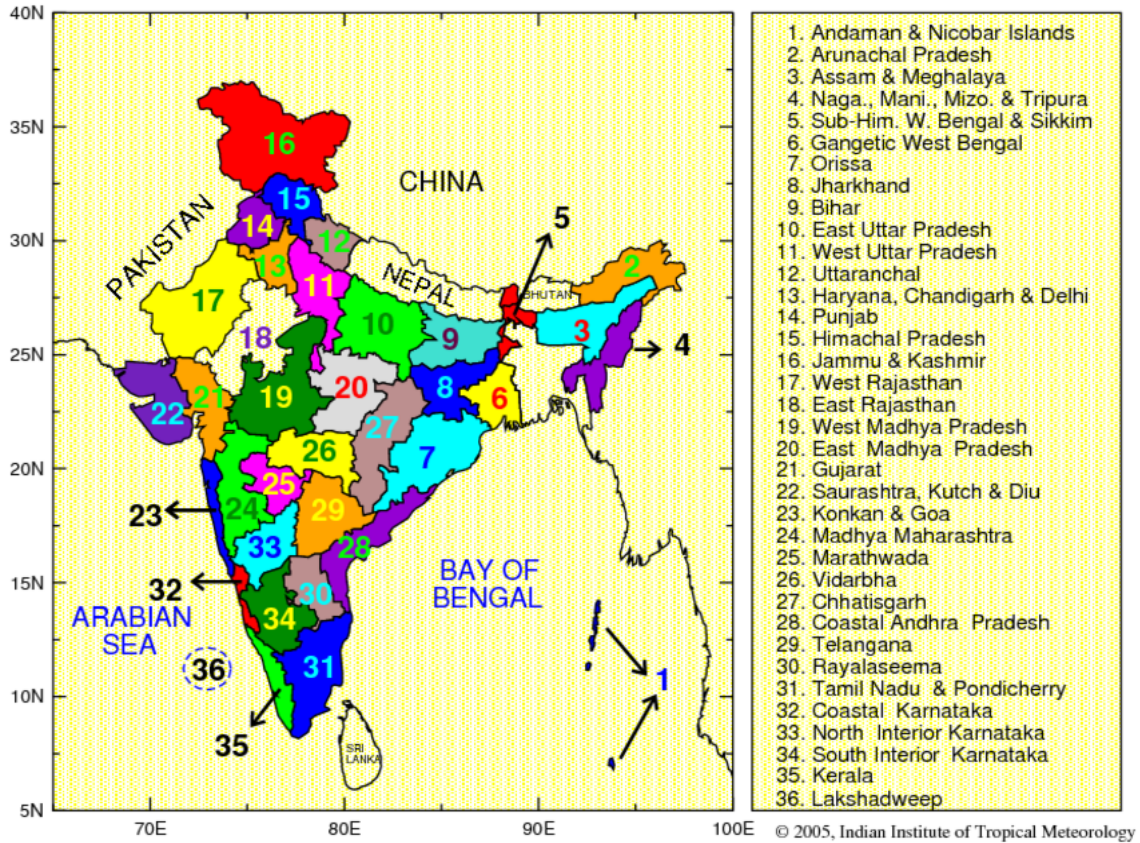


Figure 1 : Meteorological sub-divisions of India

Homogeneous Monsoon Regions

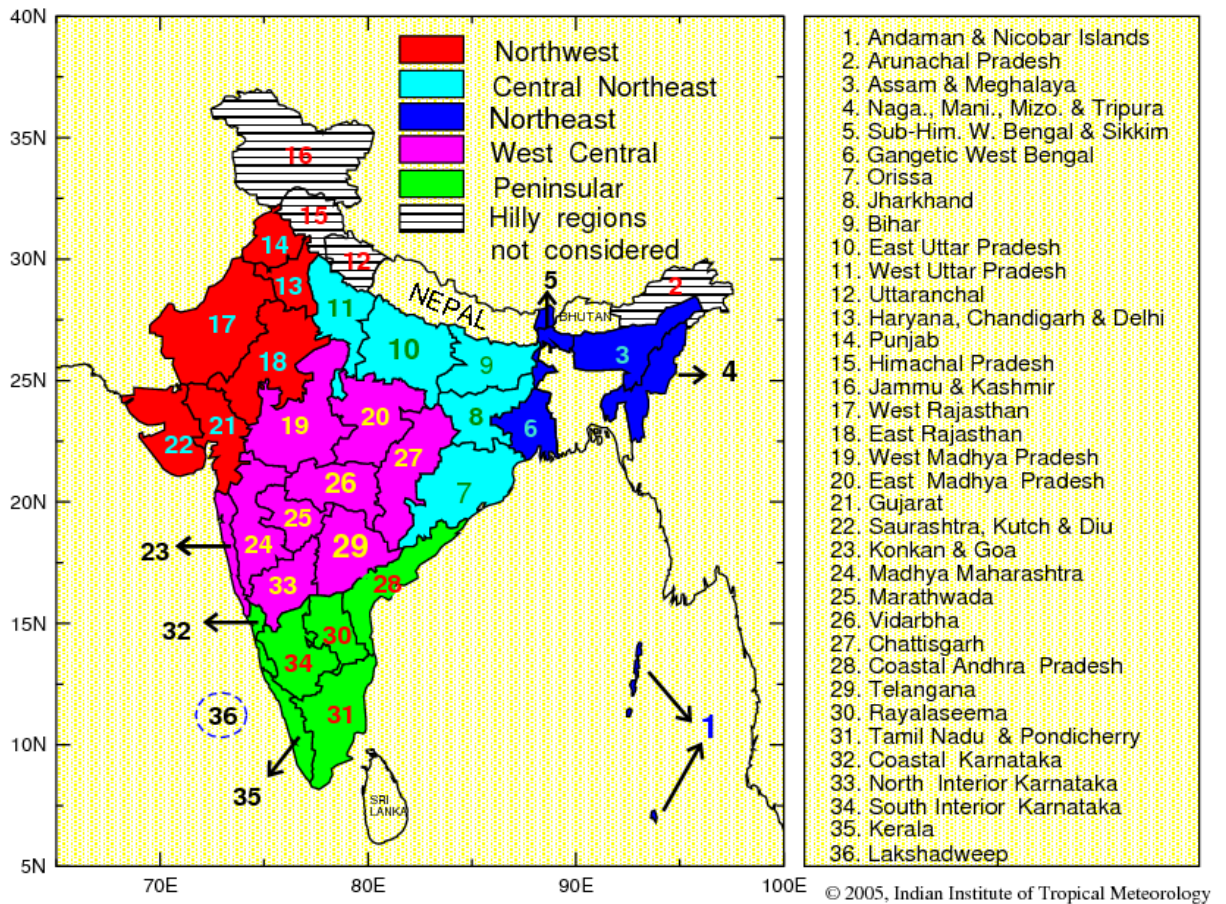


Figure 2: Different Homogeneous regions of India

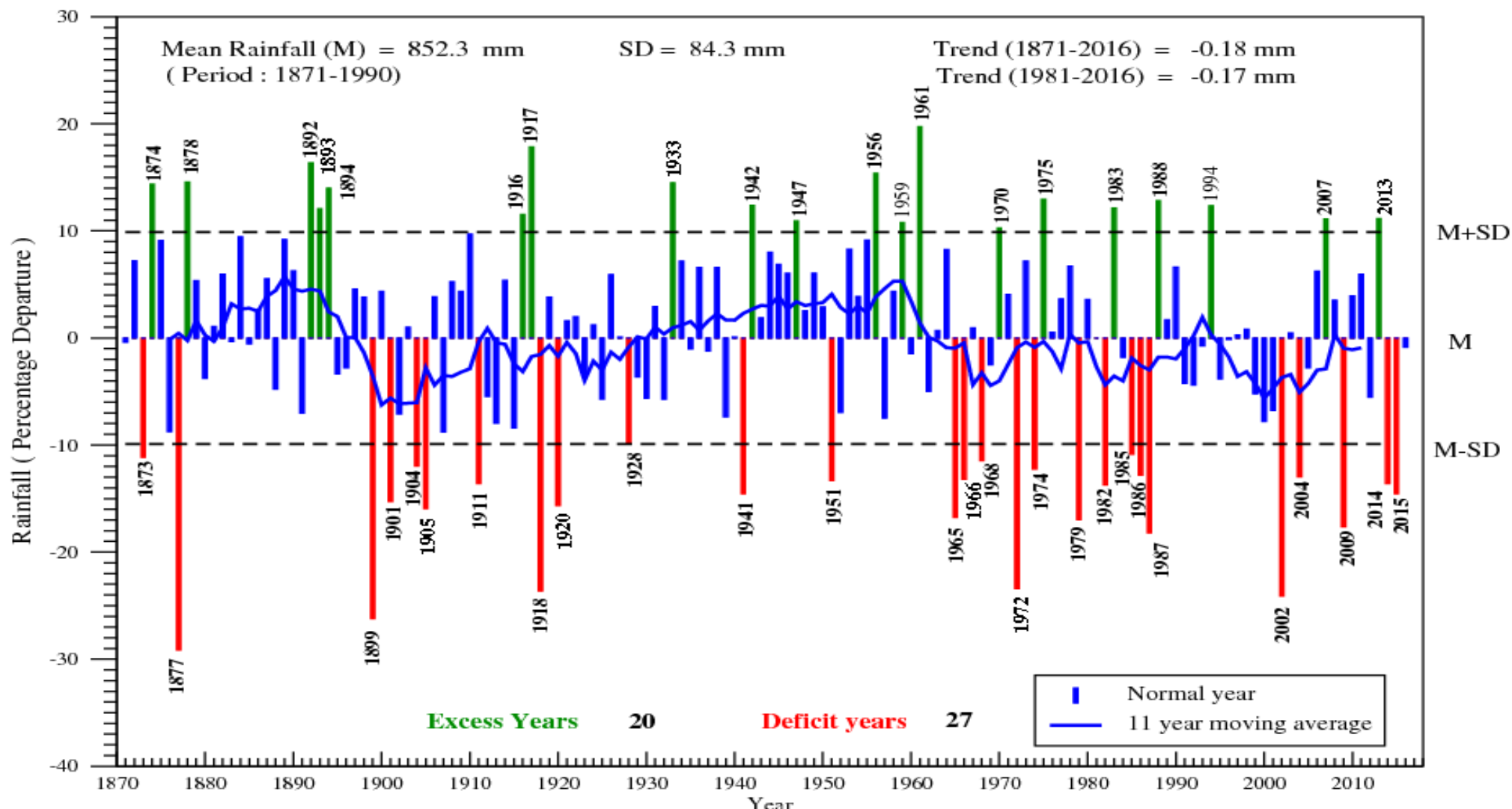


Figure 3 : All-India summer monsoon (JJAS) rainfall : 1871-2016

(Trend mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 on IMD subdivisional rainfall)

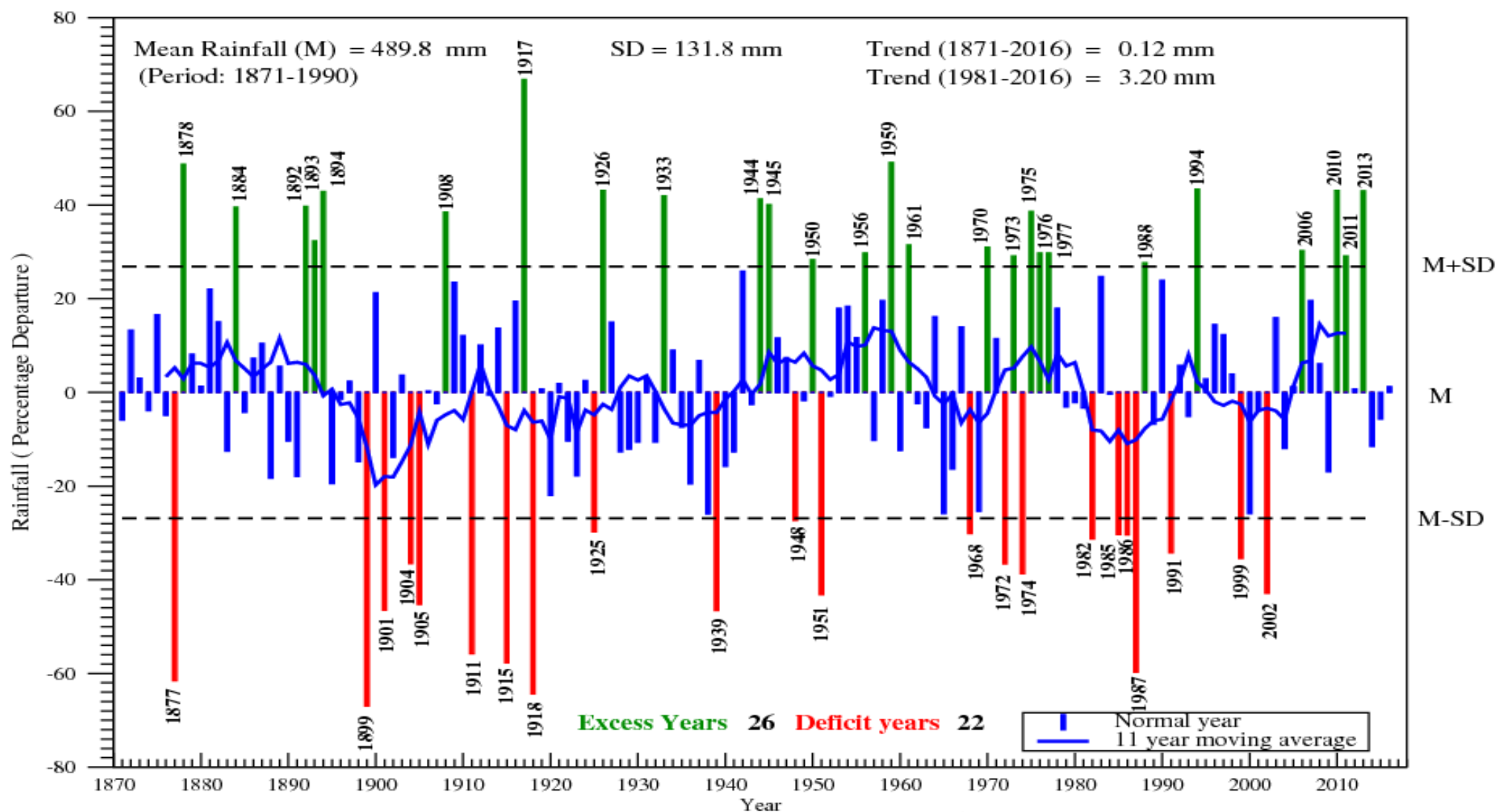


Figure 4 : Northwest Region summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10% , 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 on IMD subdivisional rainfall)

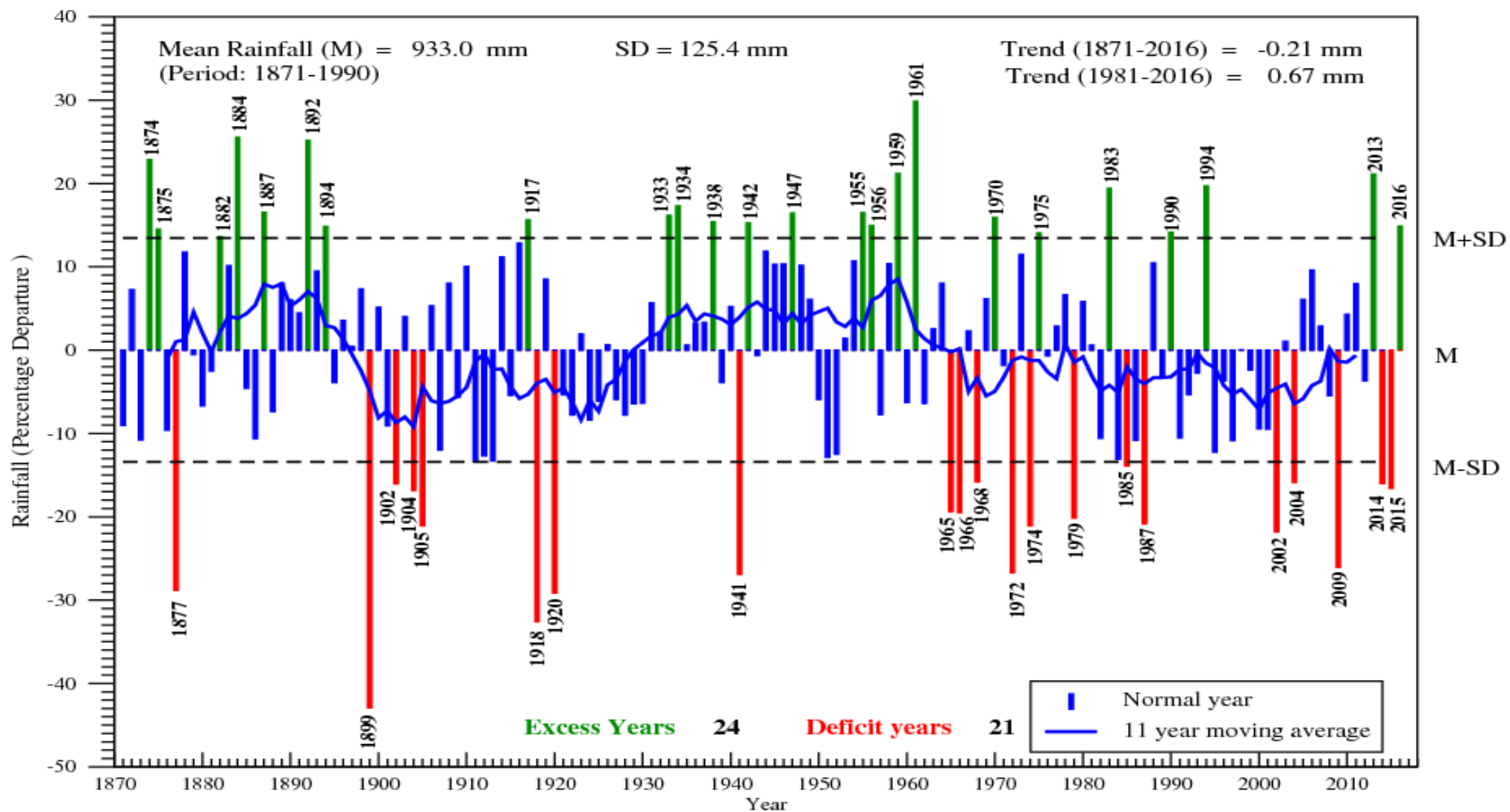


Figure 5: Westcentral Region summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

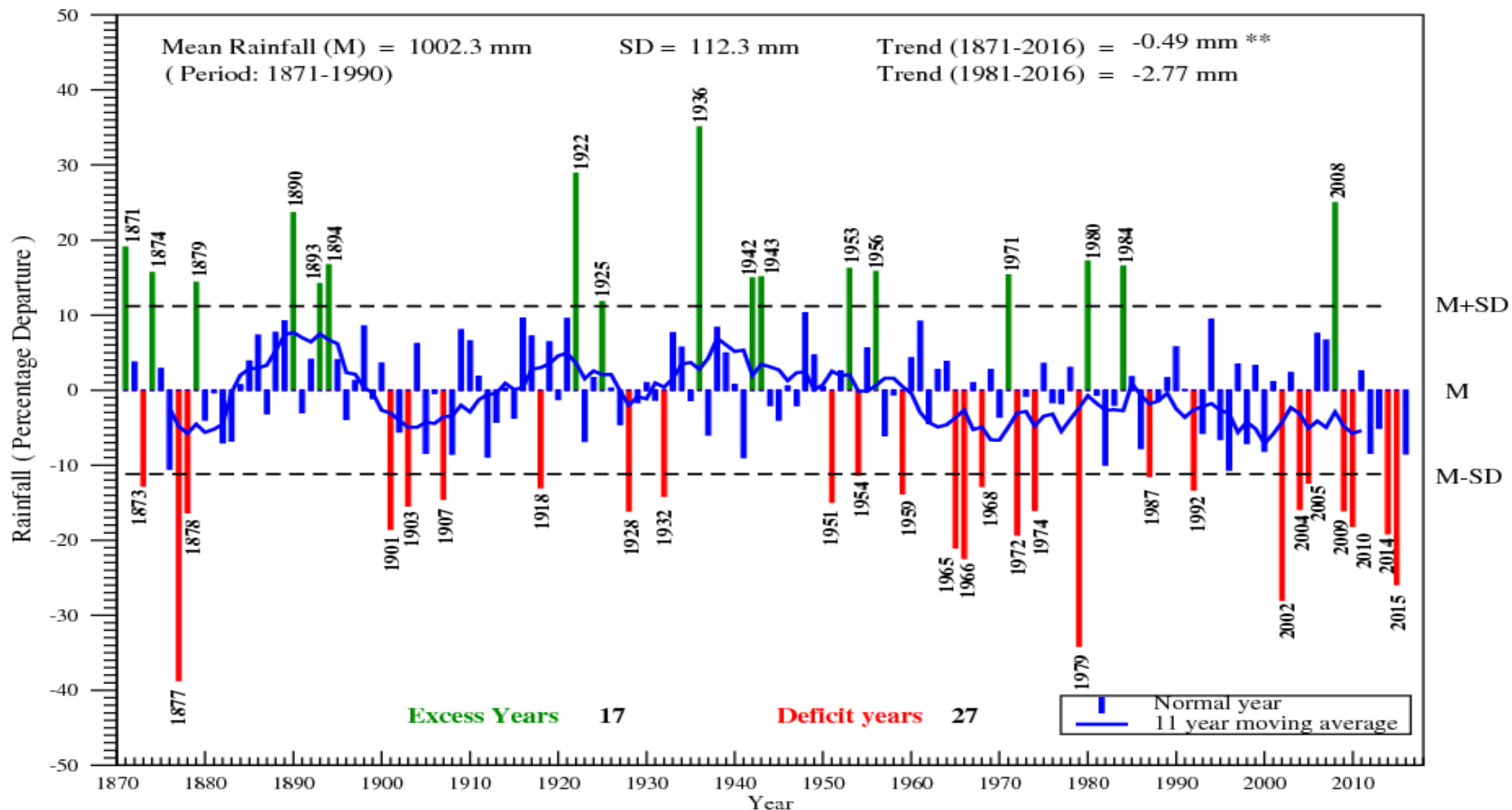


Figure 6 : Central Northeast Region summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

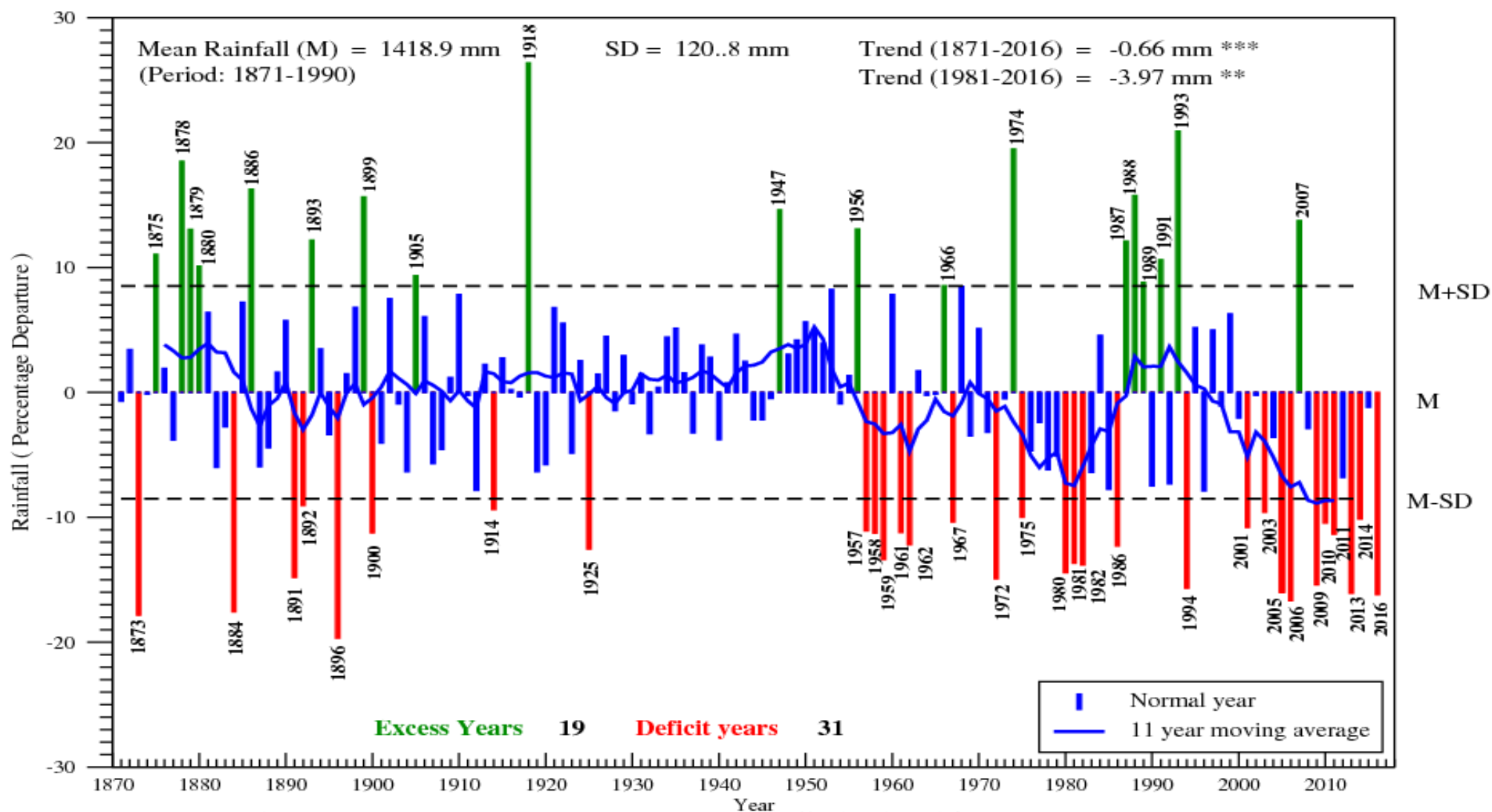


Figure 7 : Northeast Region summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

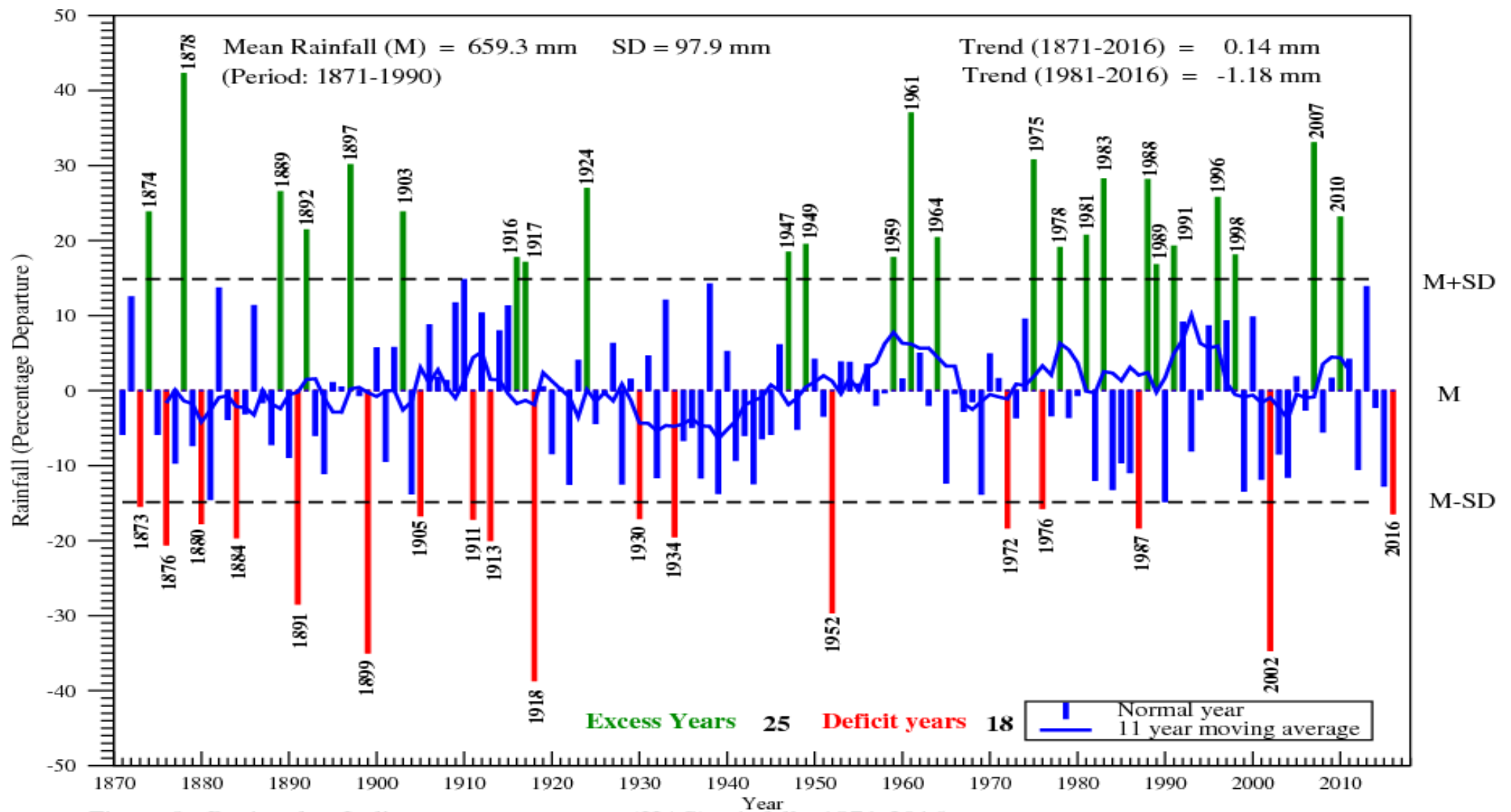


Figure 8 : Peninsular India summer monsoon (JJAS) rainfall : 1871-2016
(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

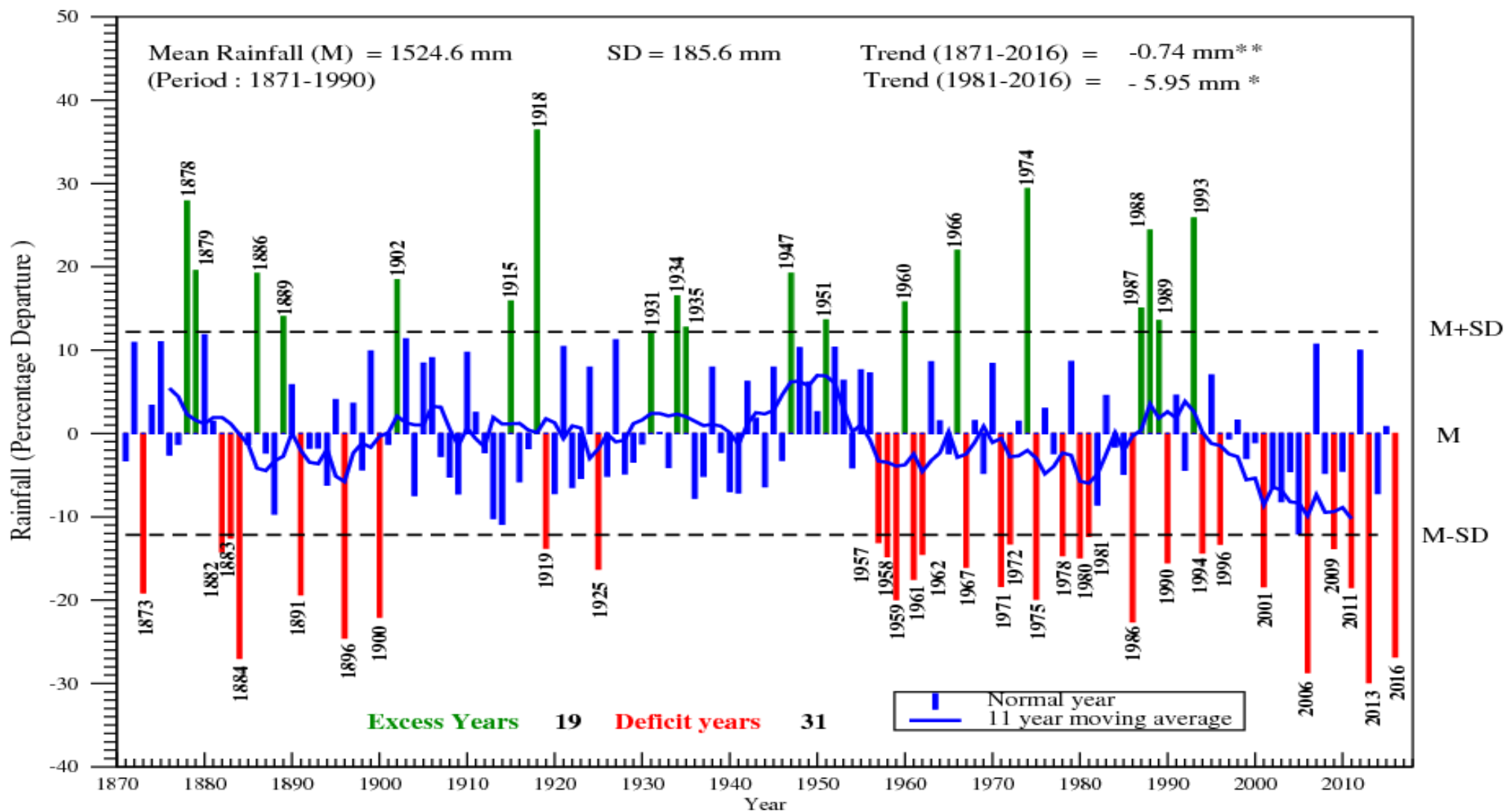


Figure 9 : Assam and Meghalaya subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend -- mm/year. *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015 - 2016 based on IMD subdivisional rainfall)

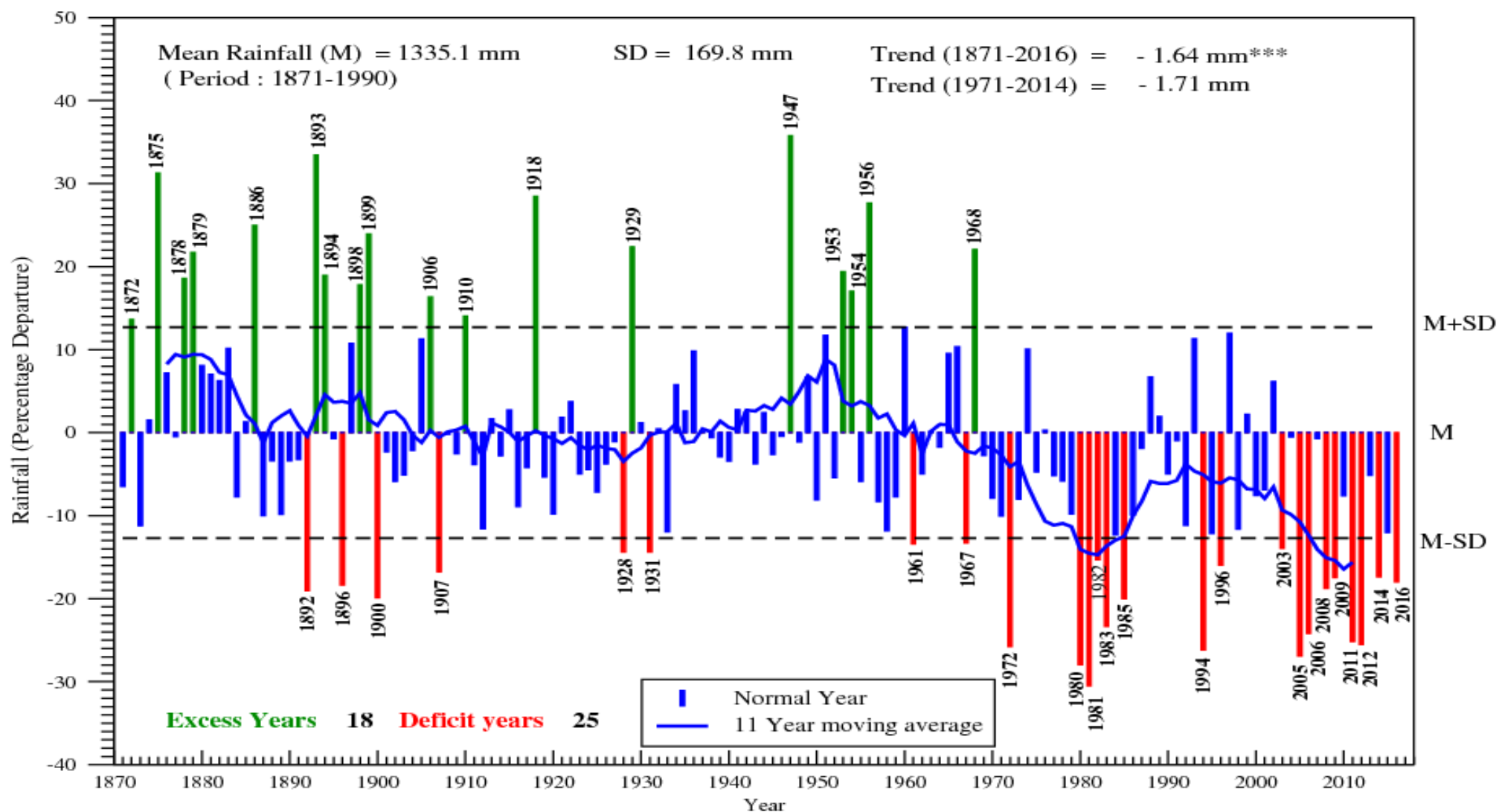


Figure 10 : Nagaland . Manipur, Mizoram and Tripura subdivision summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

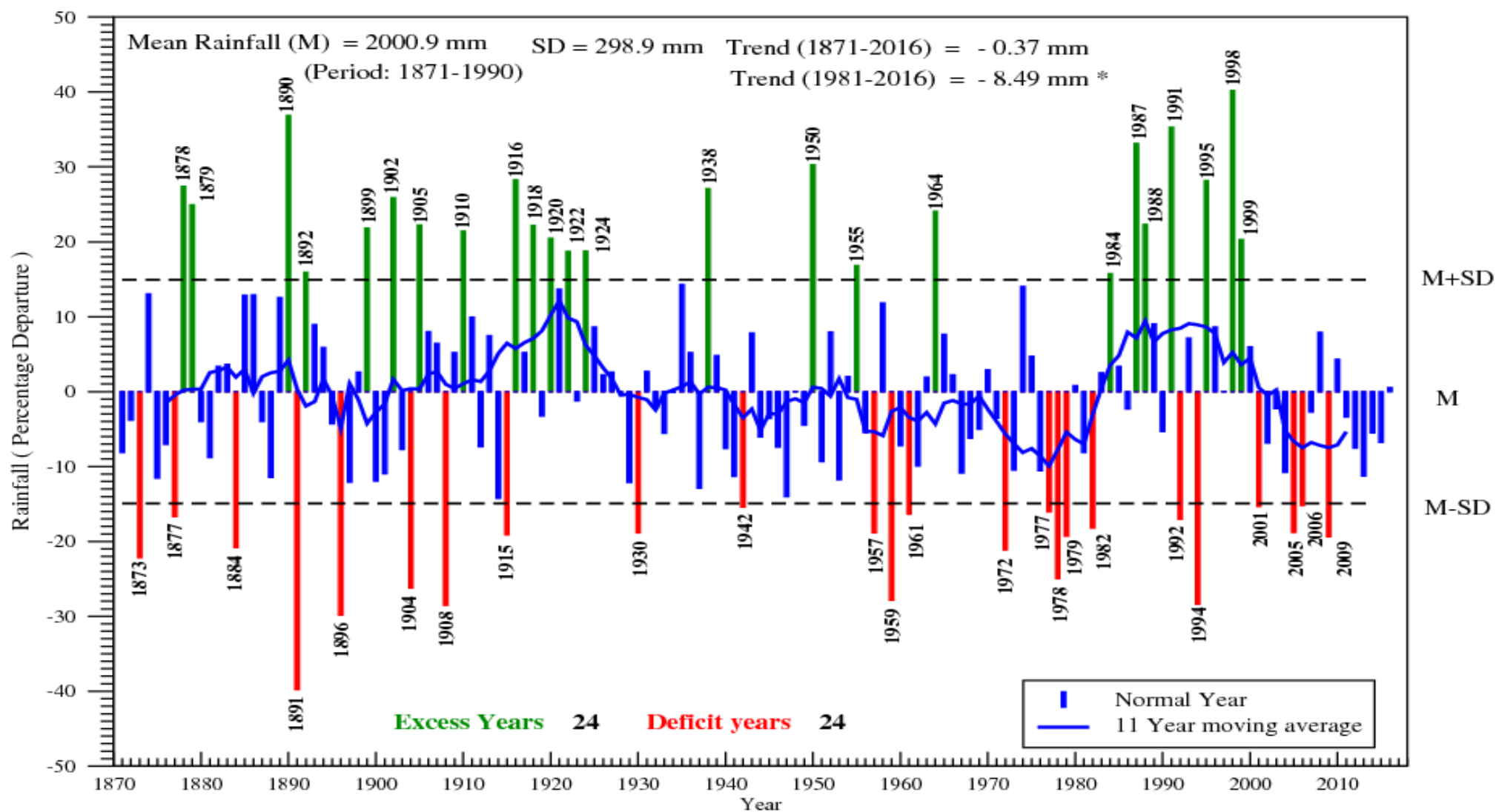


Figure 11 : Sub Himalayan West Bengal and Sikkim subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

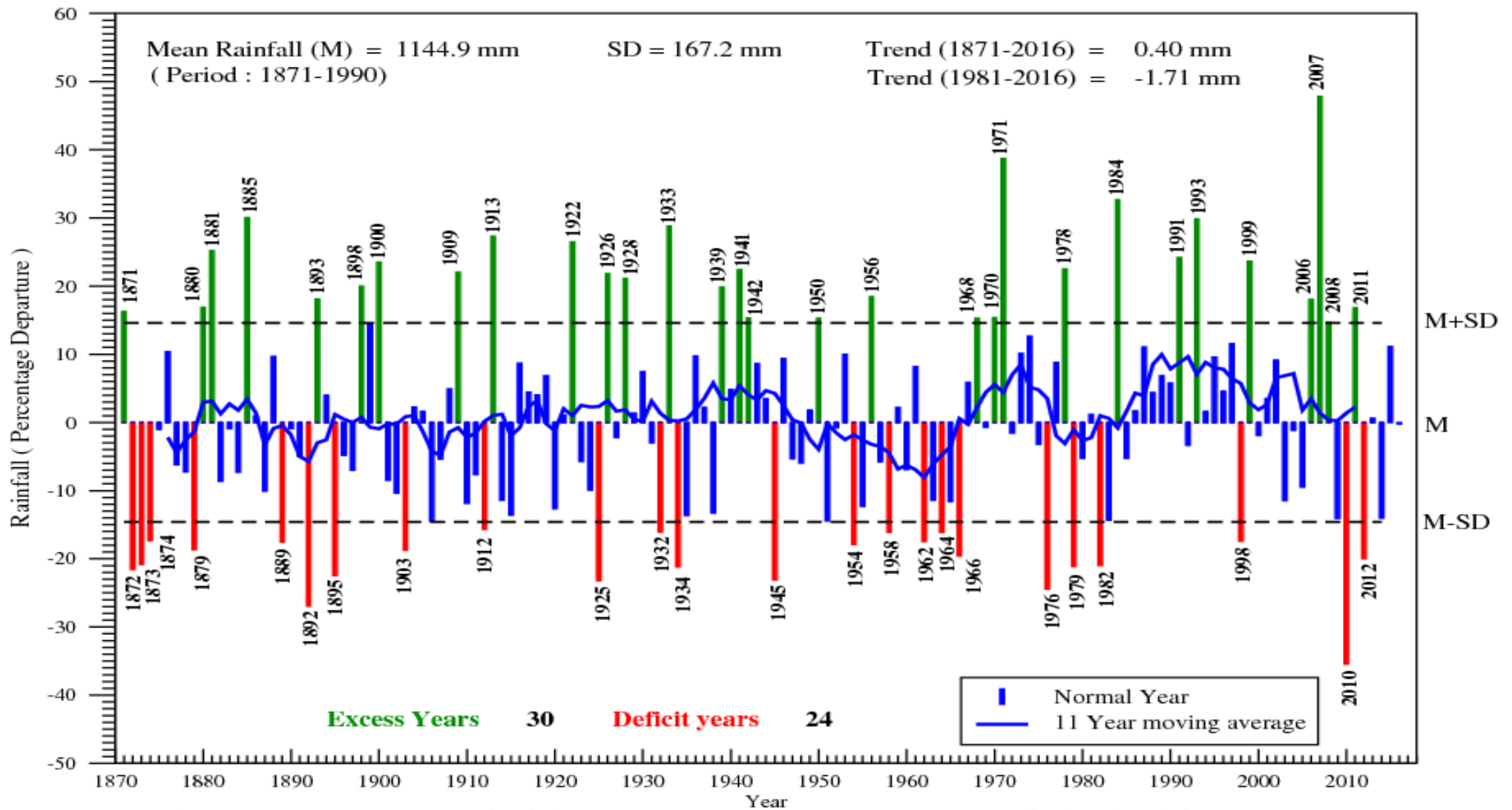


Figure 12 : Gangetic West Bengal subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend -mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)

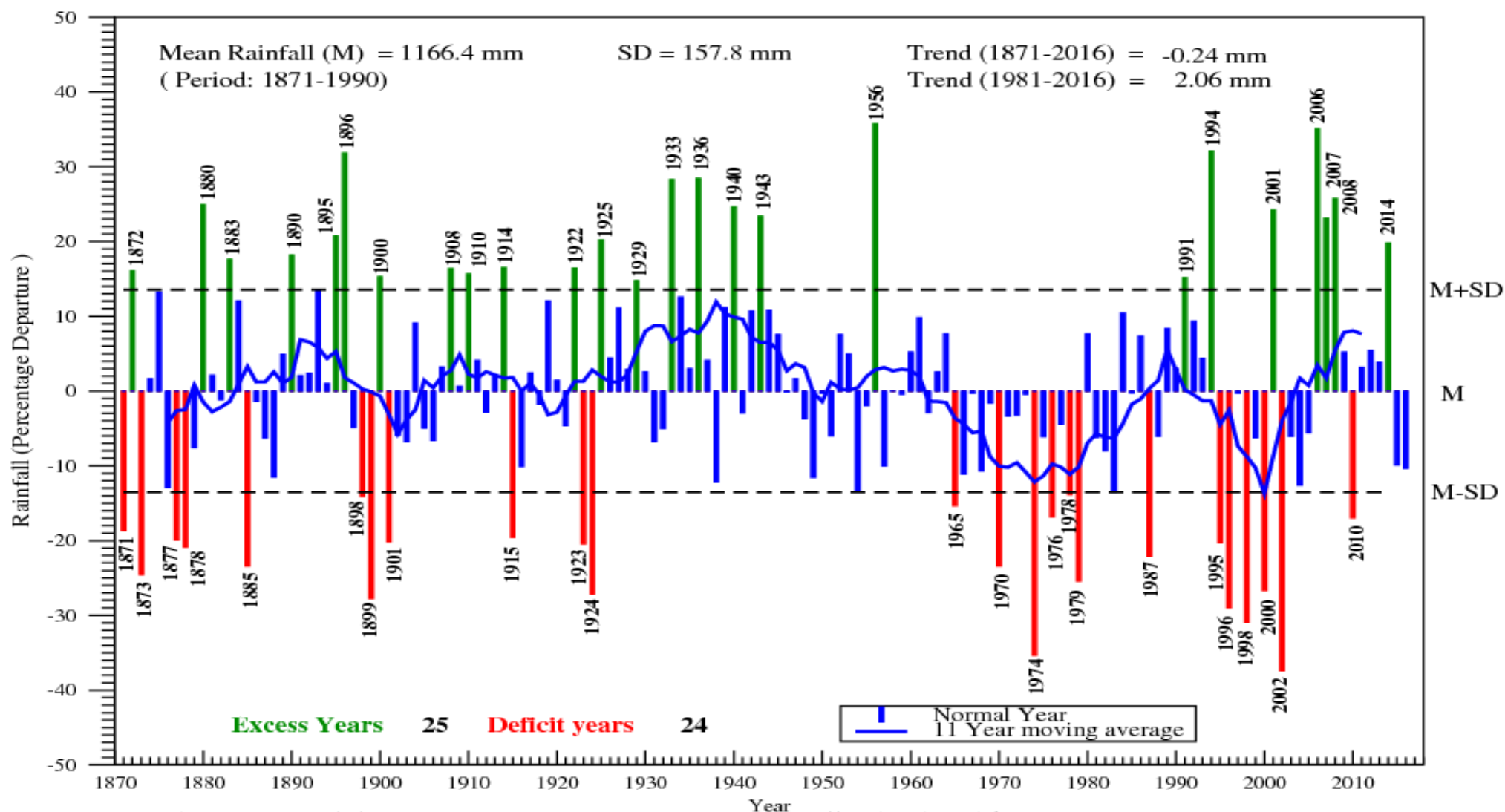


Figure 13: Orissa subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015 -2016 based on IMD subdivisional rainfall)

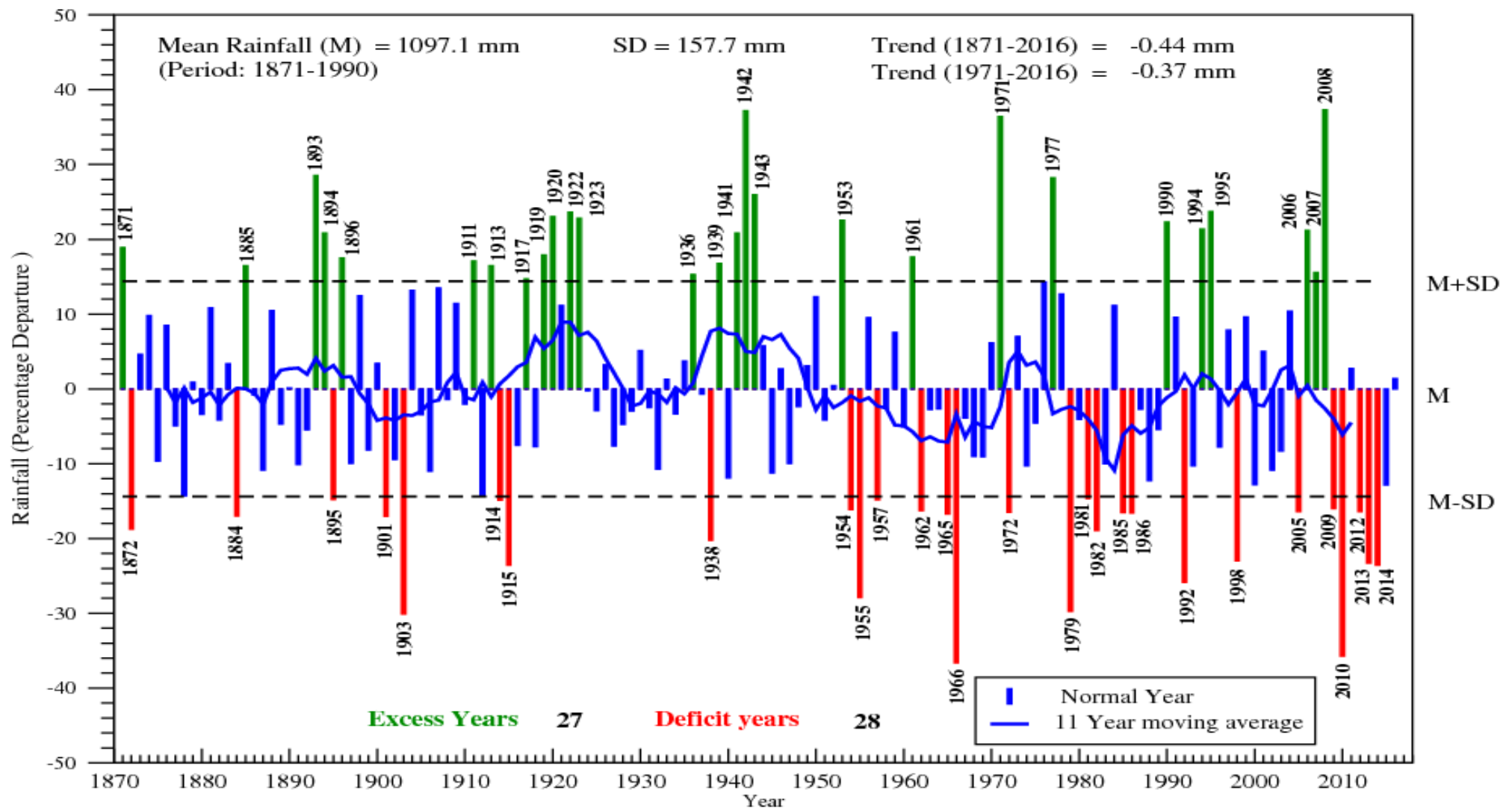


Figure 14 : Jharkhand subdivision summer monsoon (JJAS) rainfall (mm) :1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

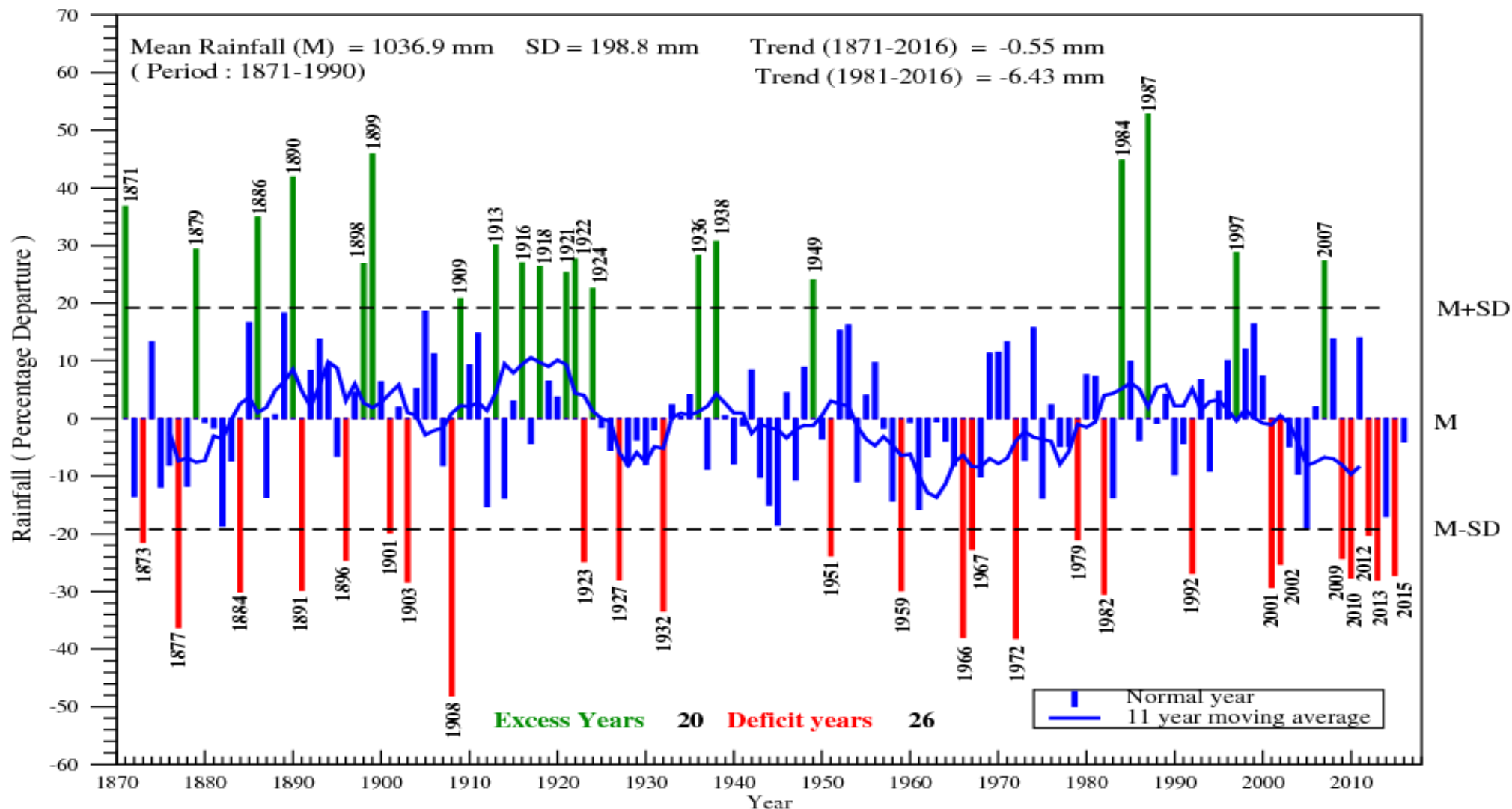


Figure 15 : Bihar subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend mm/year, *, ** and *** significance at 10%, 5 % and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

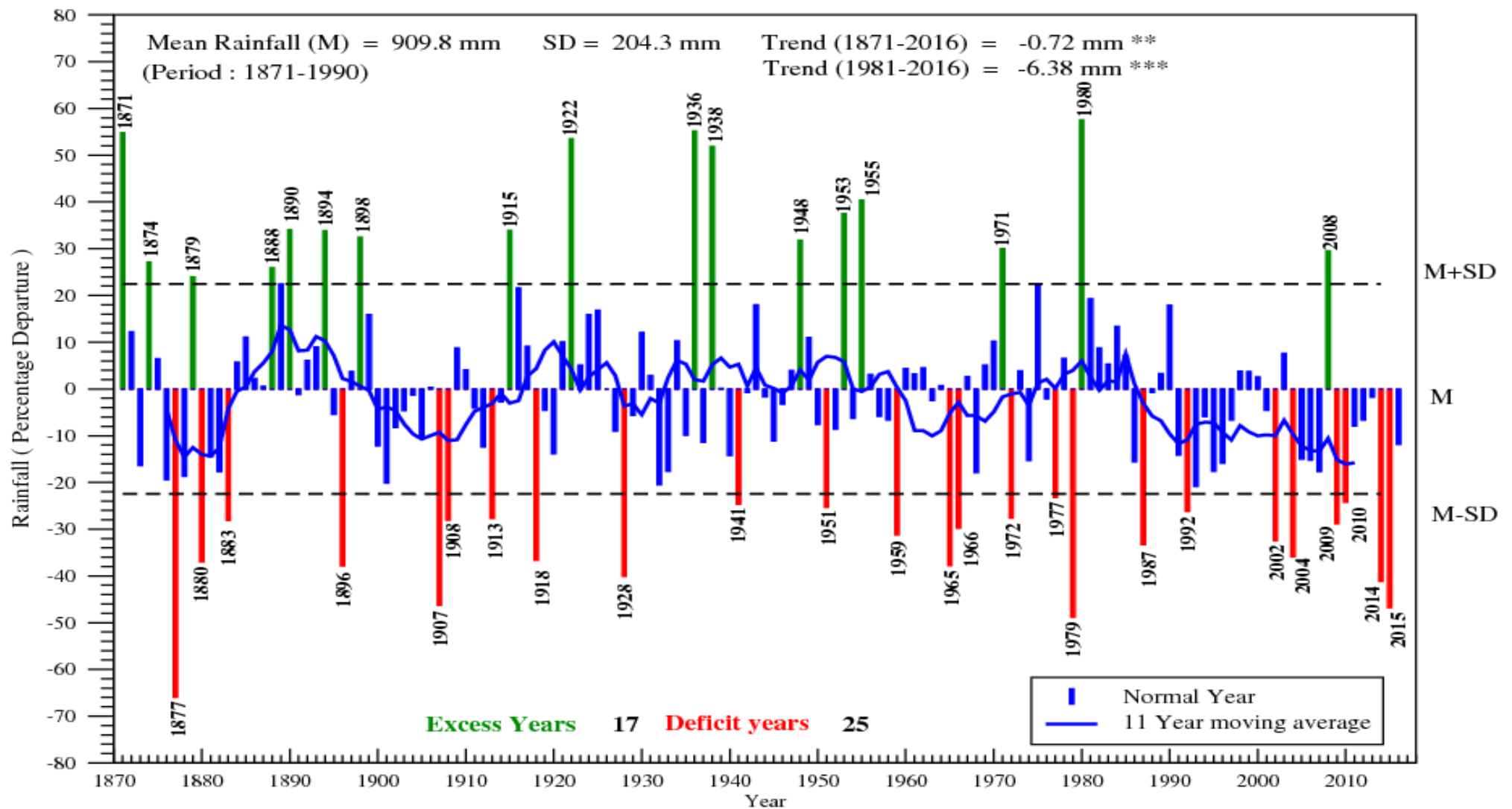


Figure 16 : East Uttar Pradesh subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10 %, 5 % and 1 % level, rainfall data for the period 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)

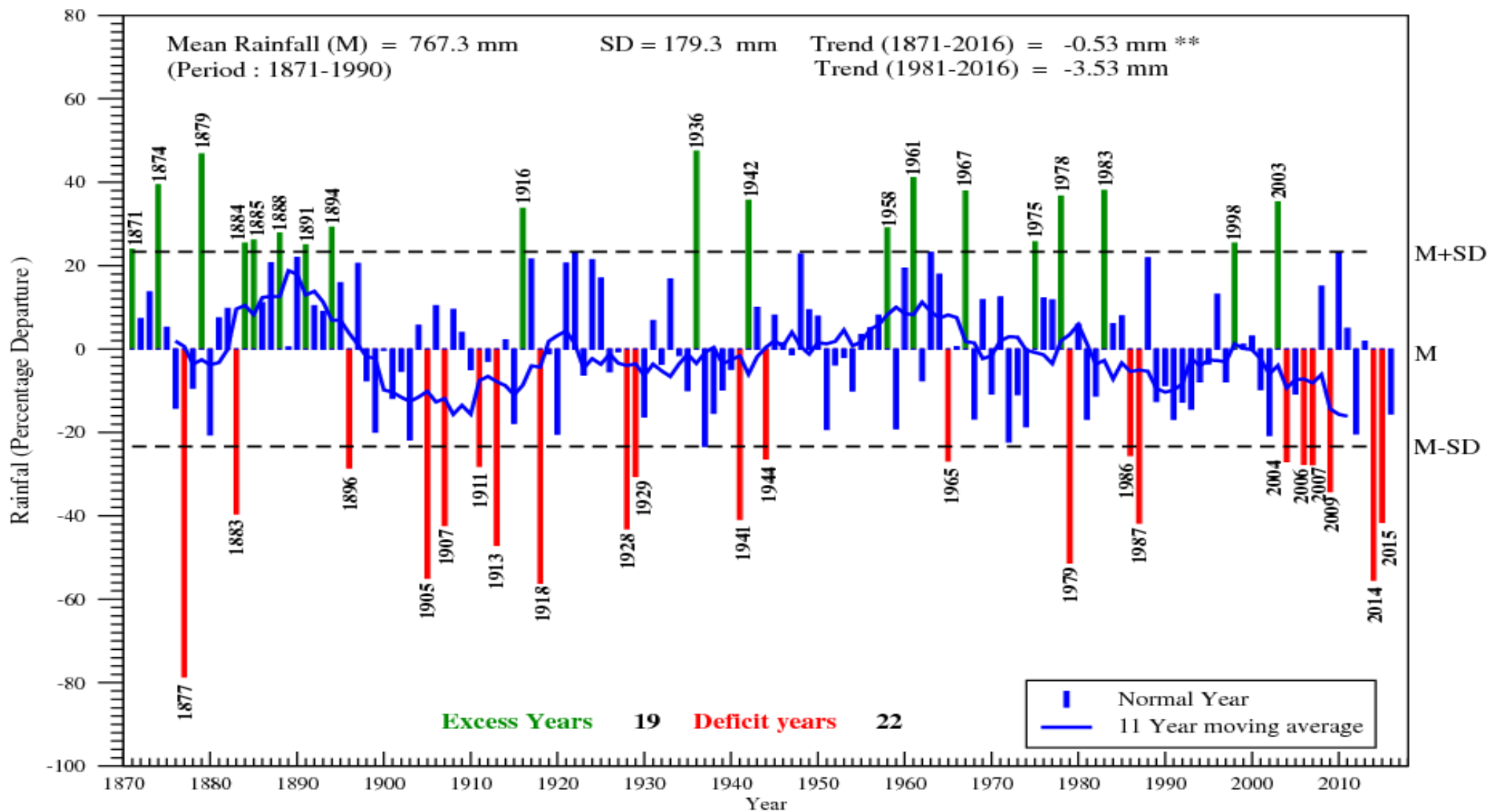


Figure 17 : West Uttar Pradesh subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871- 2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)

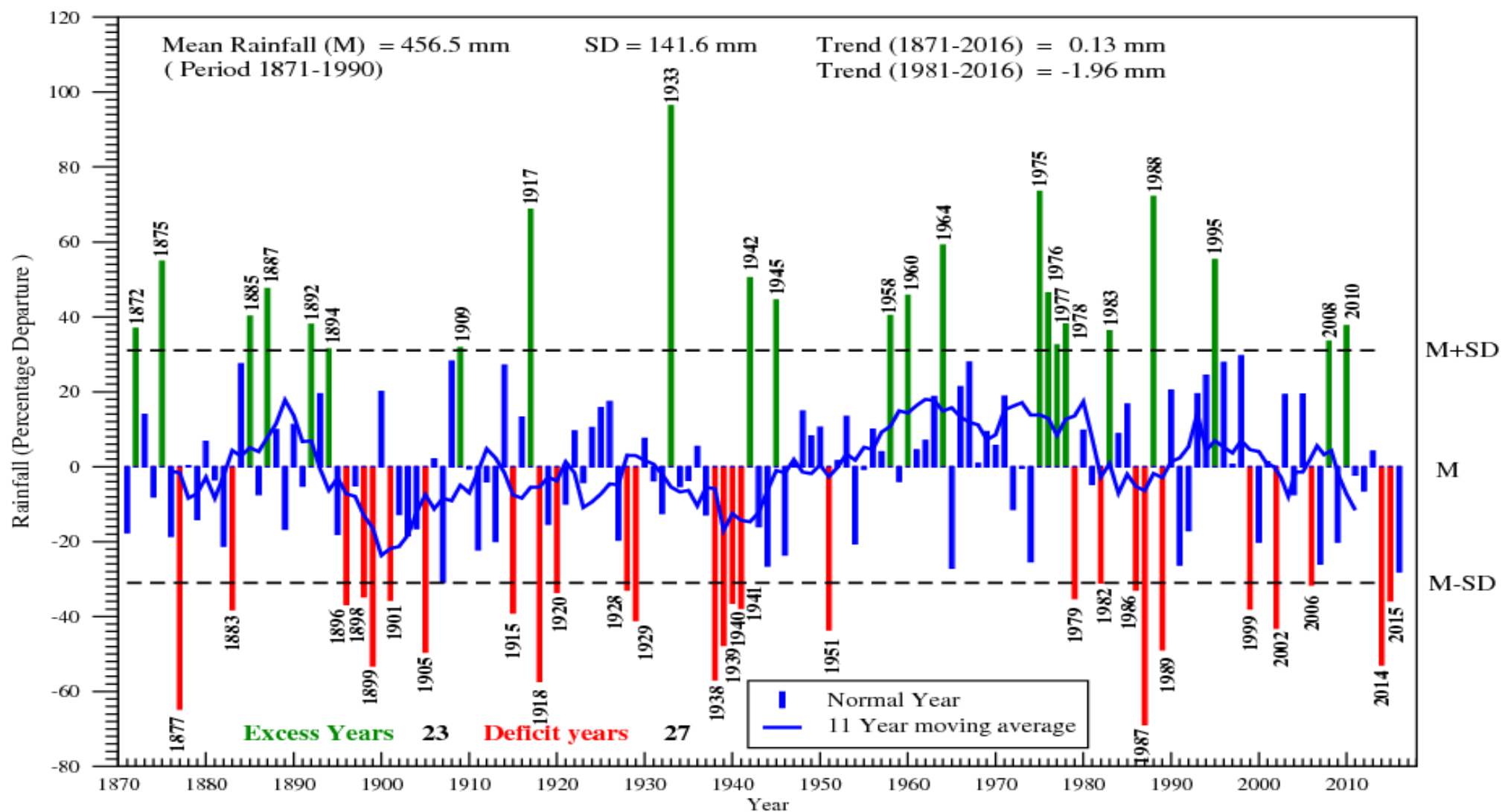


Figure 18 : Haryana, Chandigarh & Delhi subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

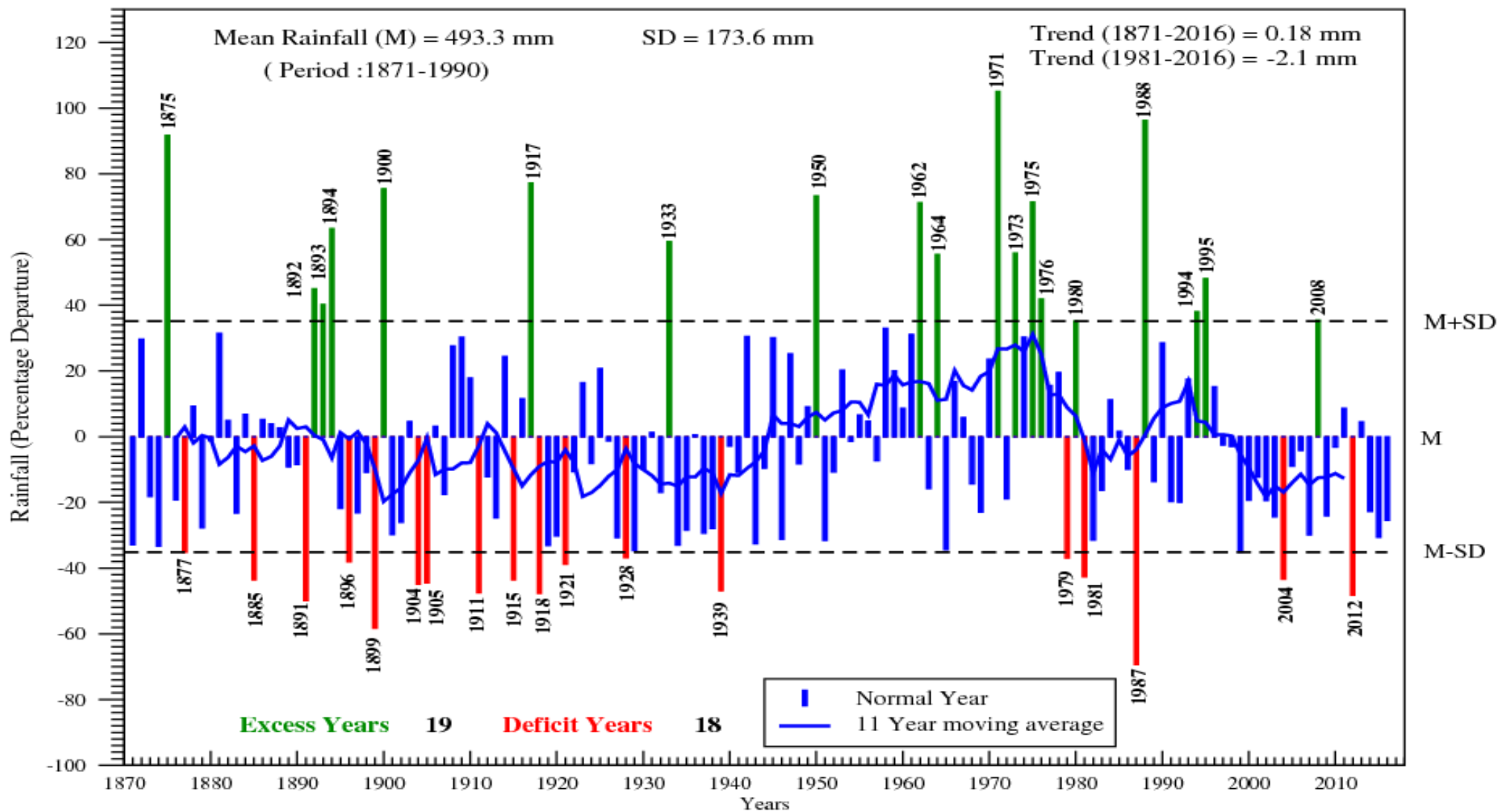


Figure 19 : Punjab subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

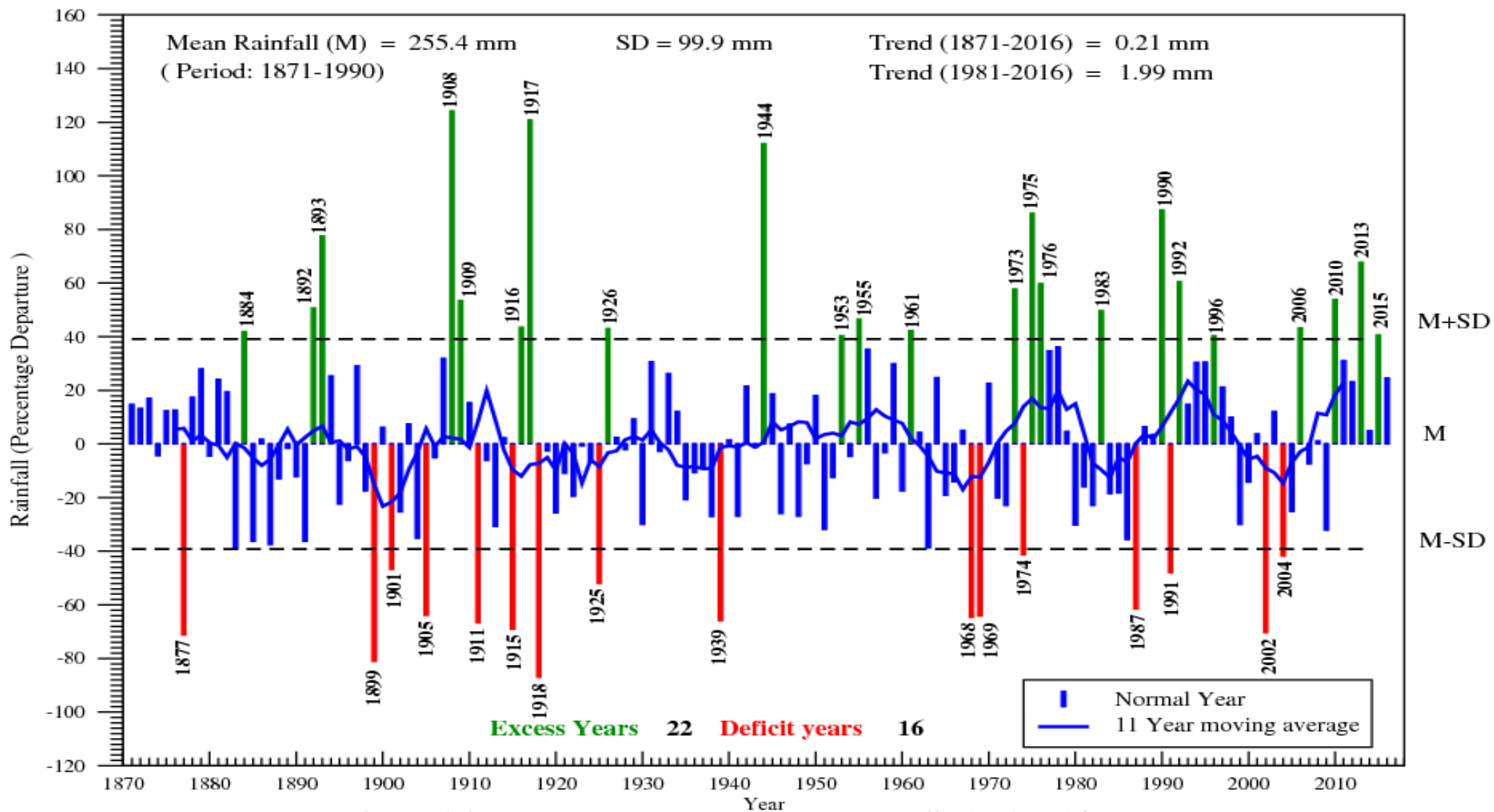


Figure 20: West Rajasthan subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

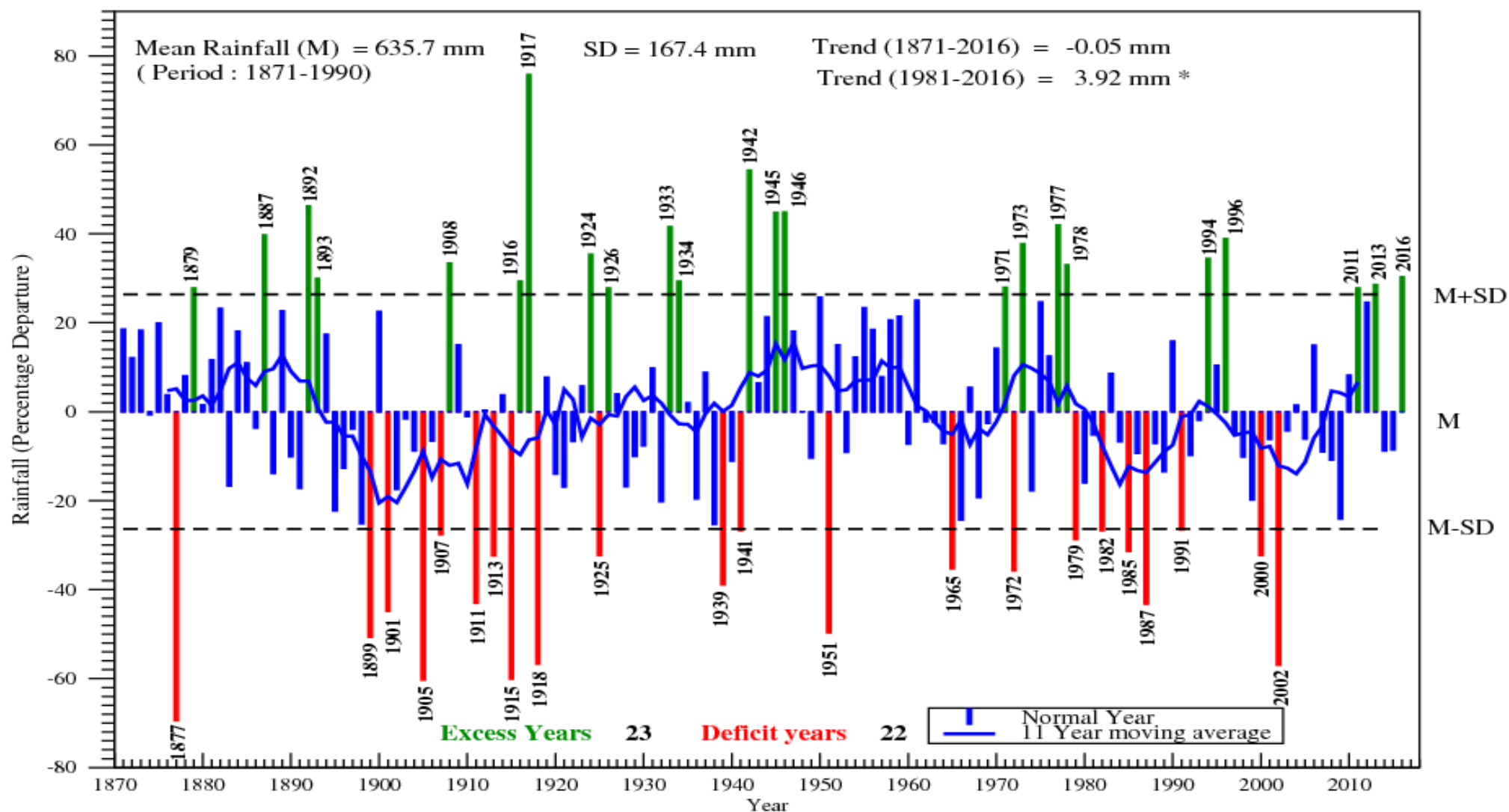


Figure 21 : East Rajasthan subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10 %, 5 %, and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

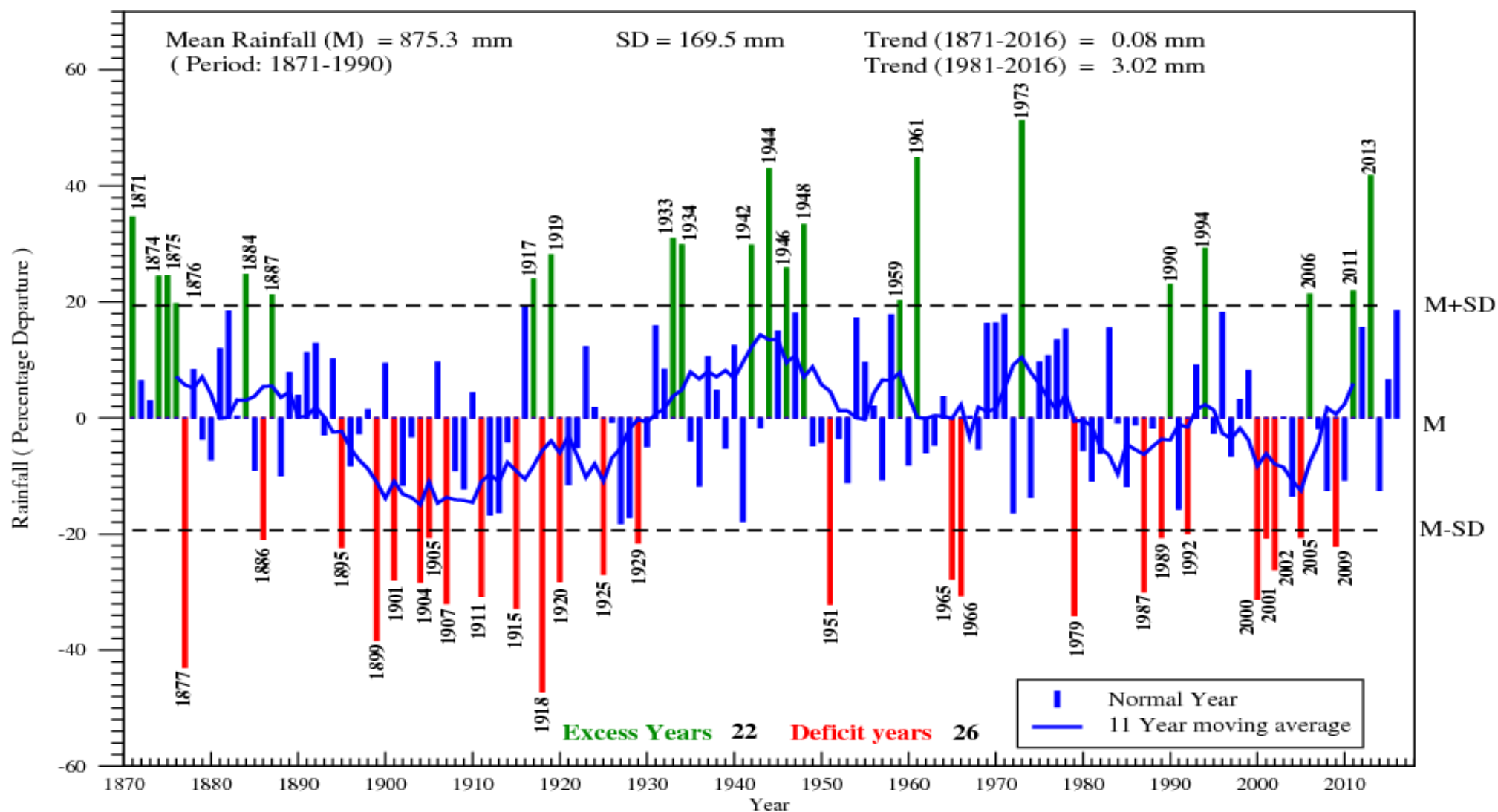


Figure 22: West Madhya Pradesh subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

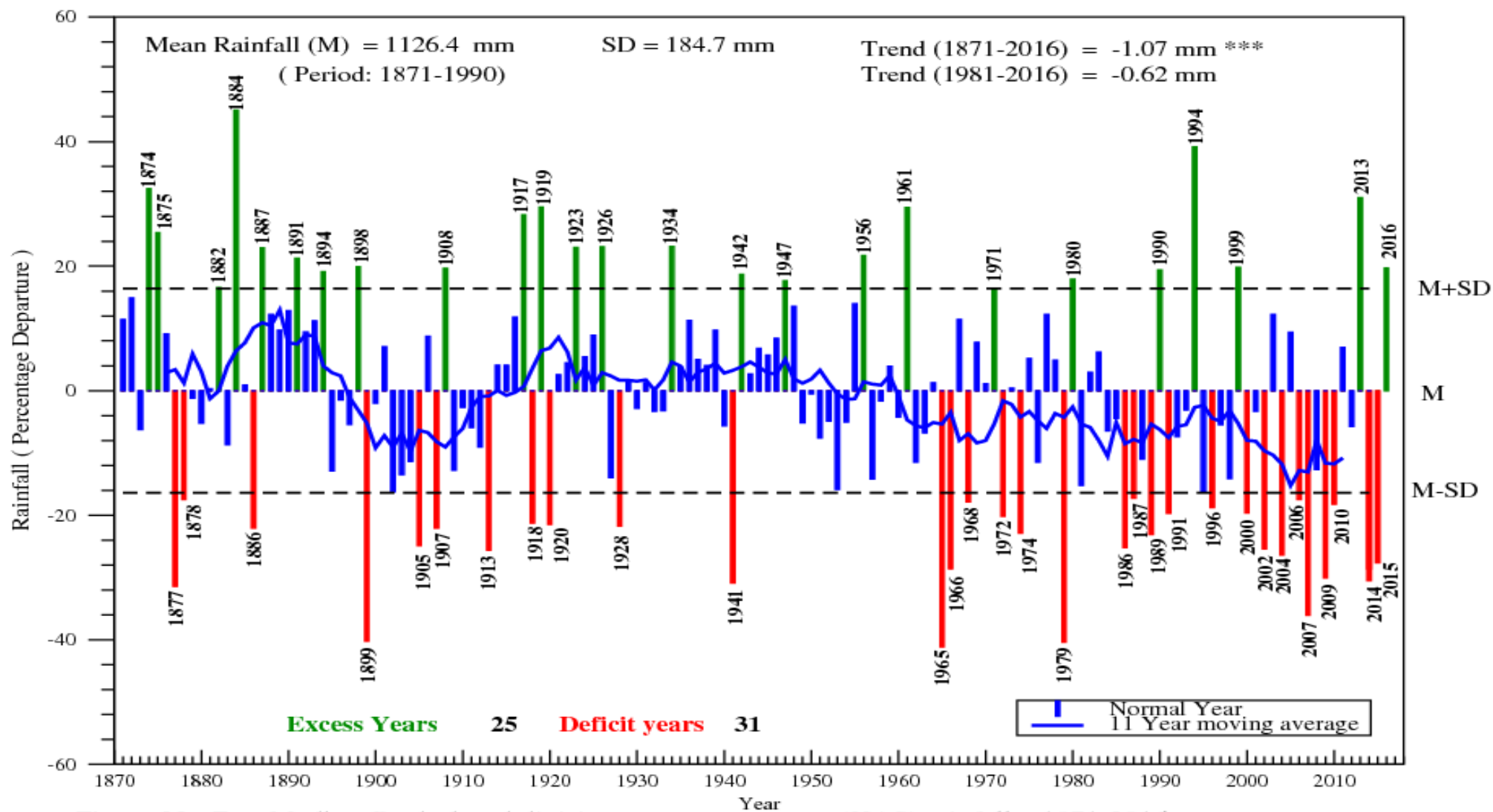


Figure 23 : East Madhya Pradesh subdivision summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10 %, 5% and 1 % level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

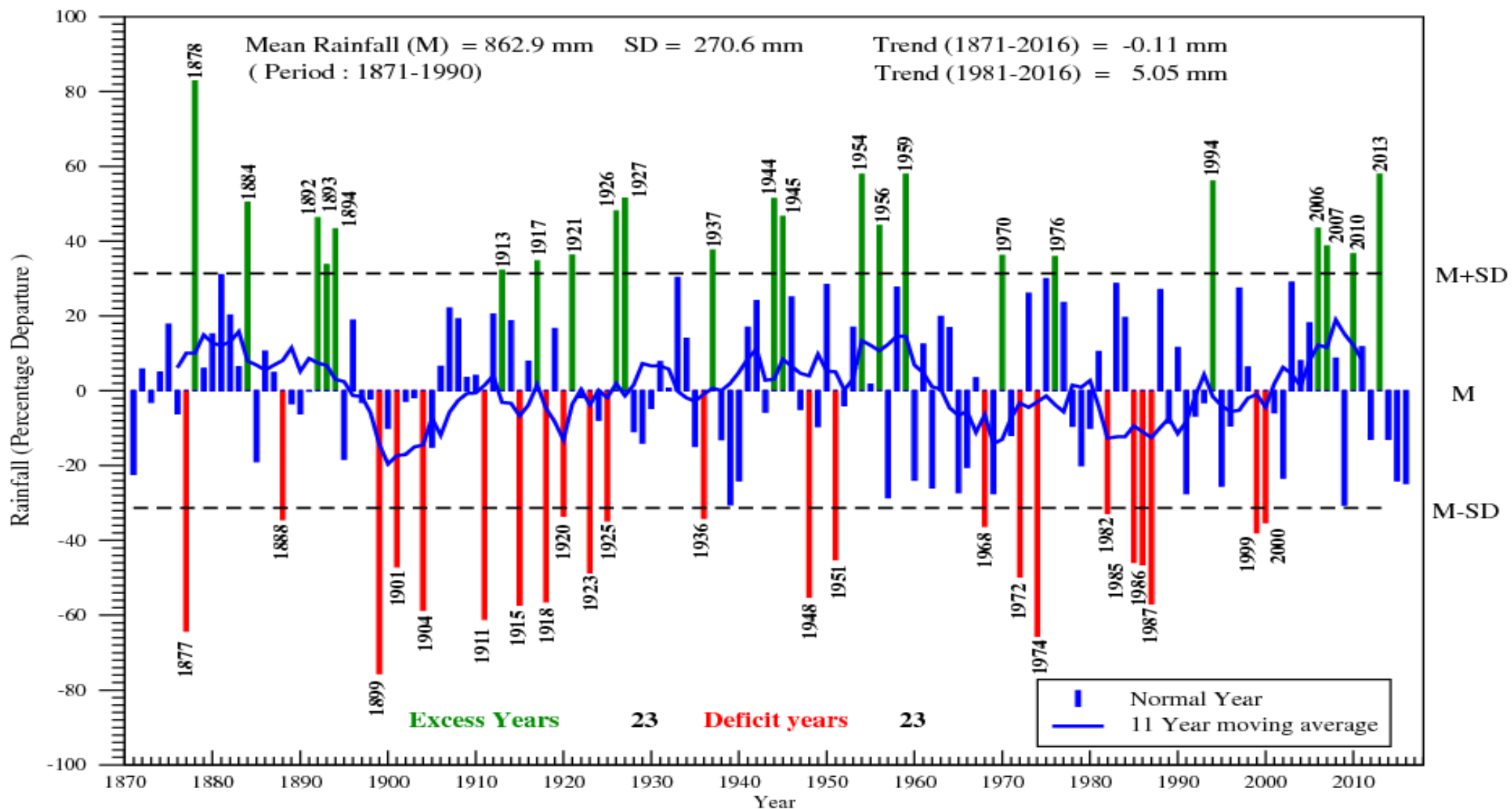


Figure 24 : Gujarat subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

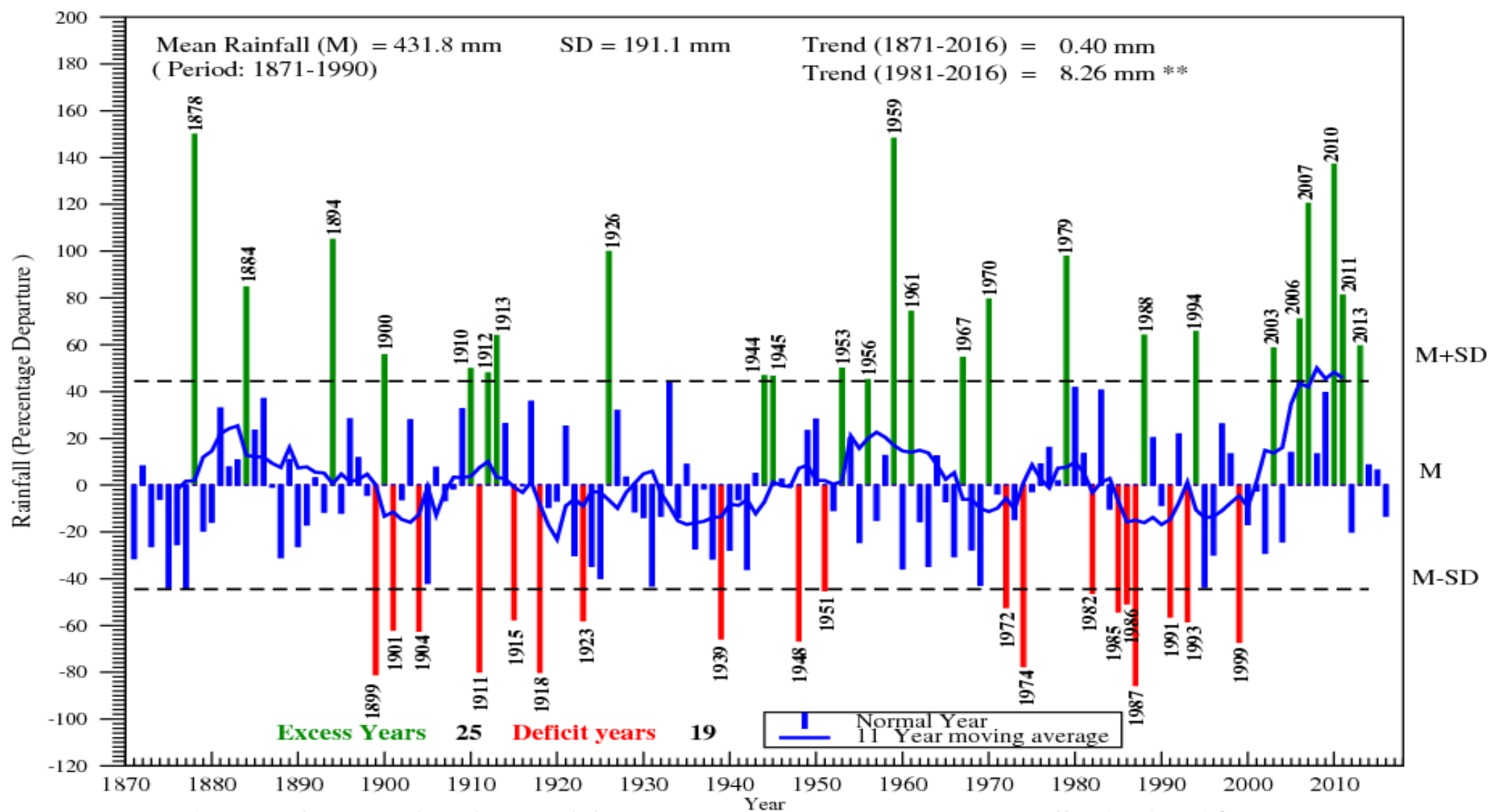


Figure 25 : Saurashtra, Kutch and Diu subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

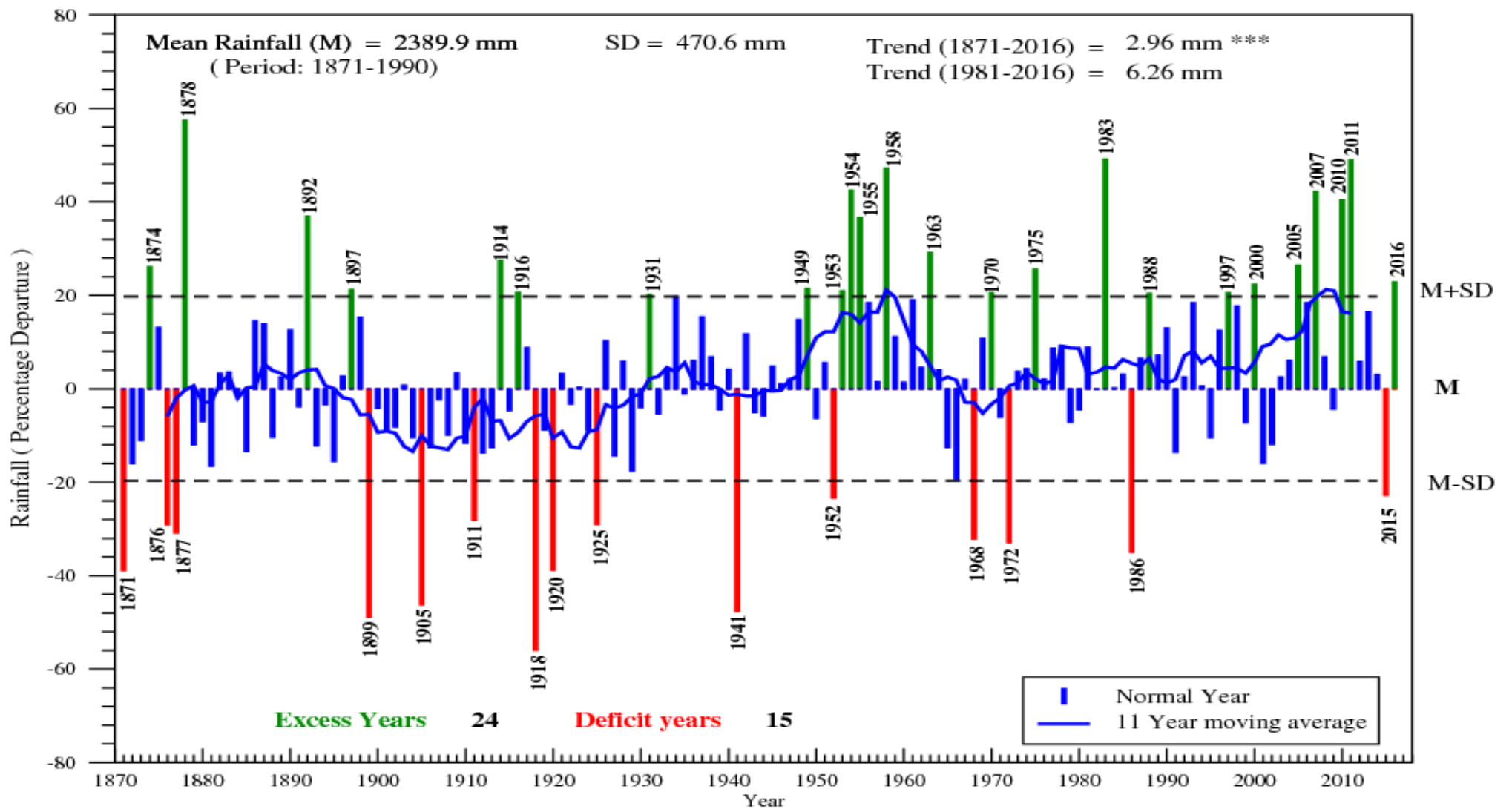


Figure 26: Konkan and Goa subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5 % and 1% level, rainfall data for the period 1871-2014 based on 306 and 2015-2016 based on IMD subdivisional rainfall)

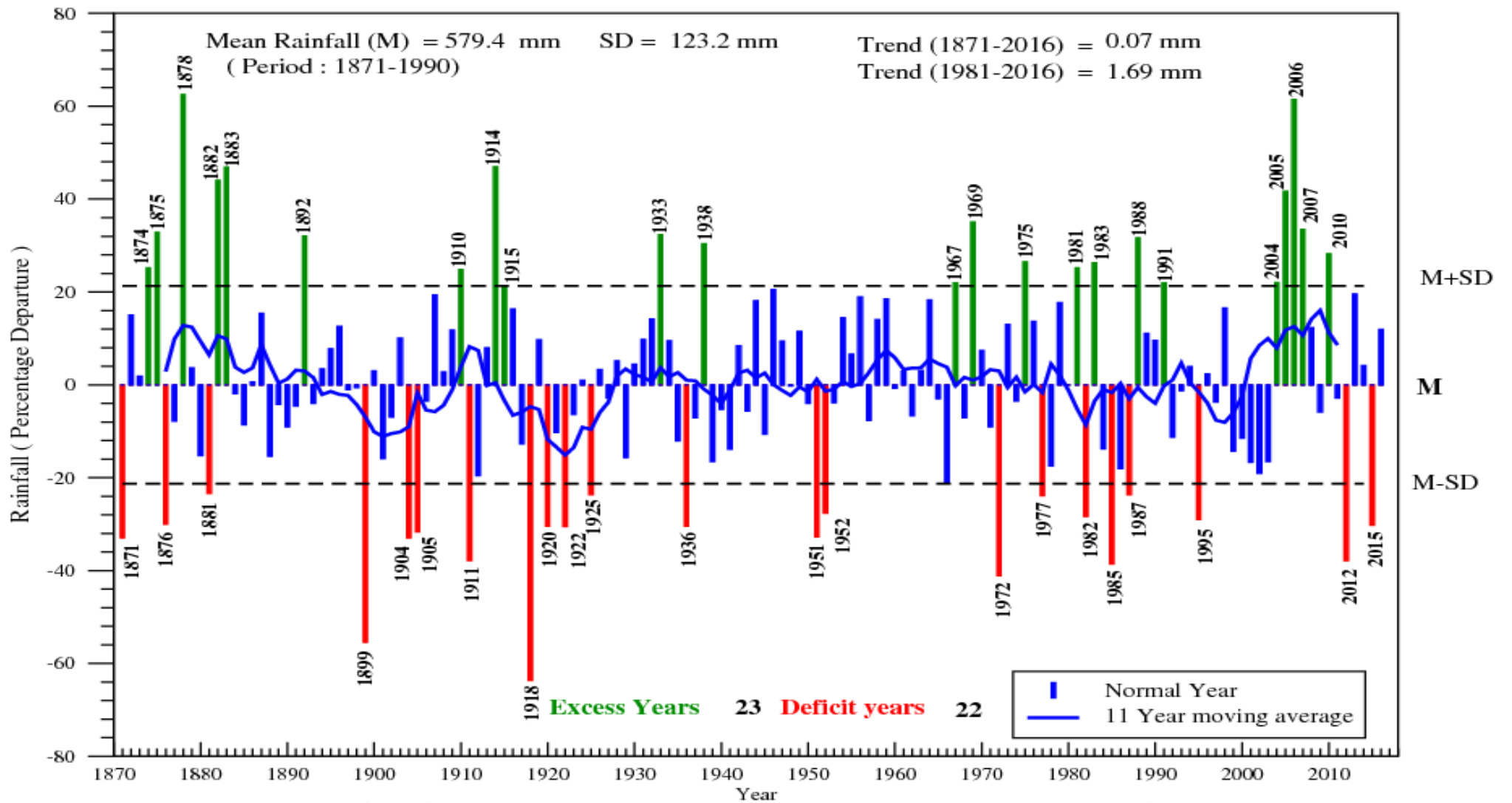


Figure 27 : Madhya Maharashtra subdivision summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

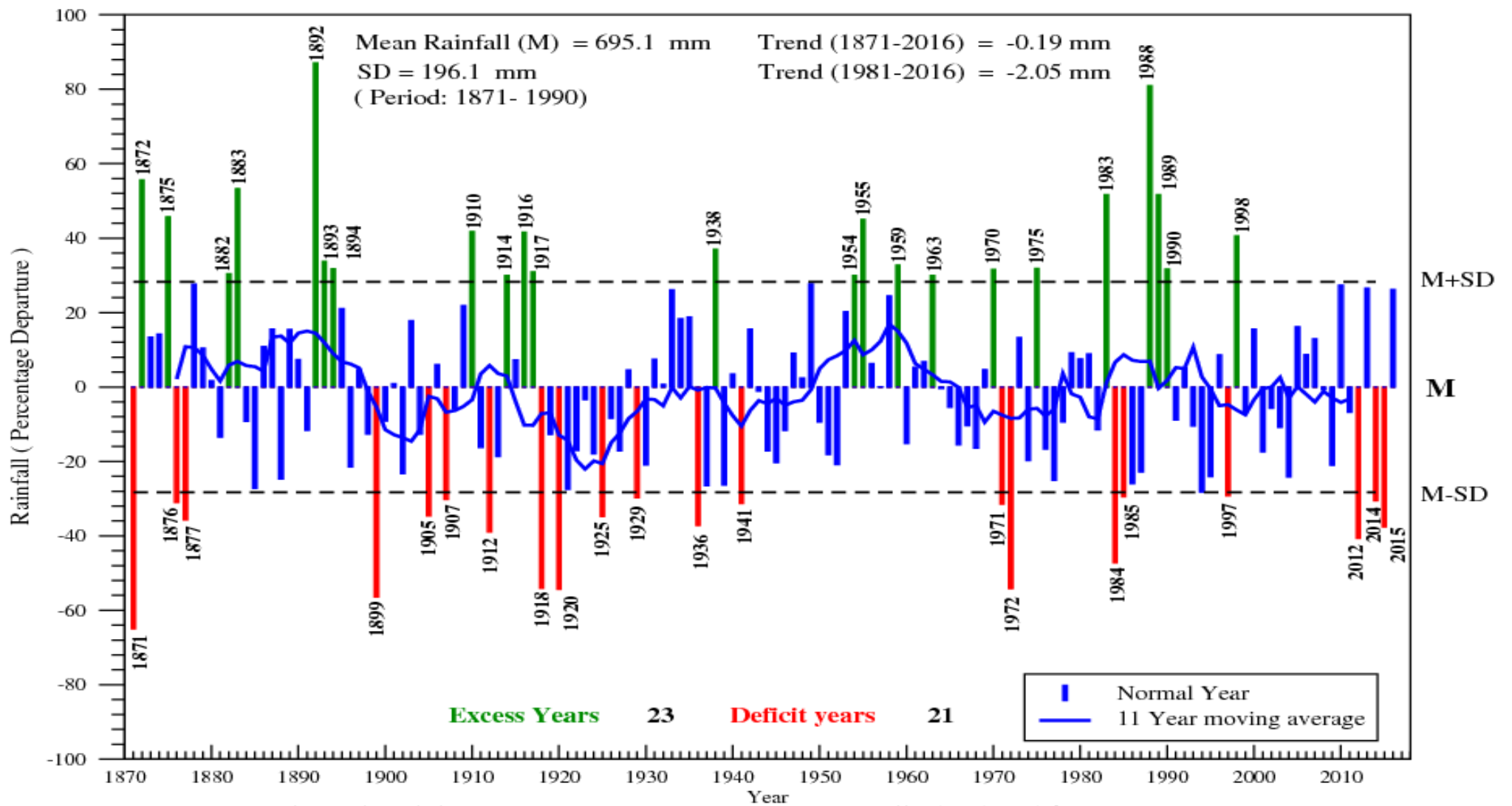


Figure 28 : Marathwada subdivision summer monsoon (JJAS)rainfall :1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

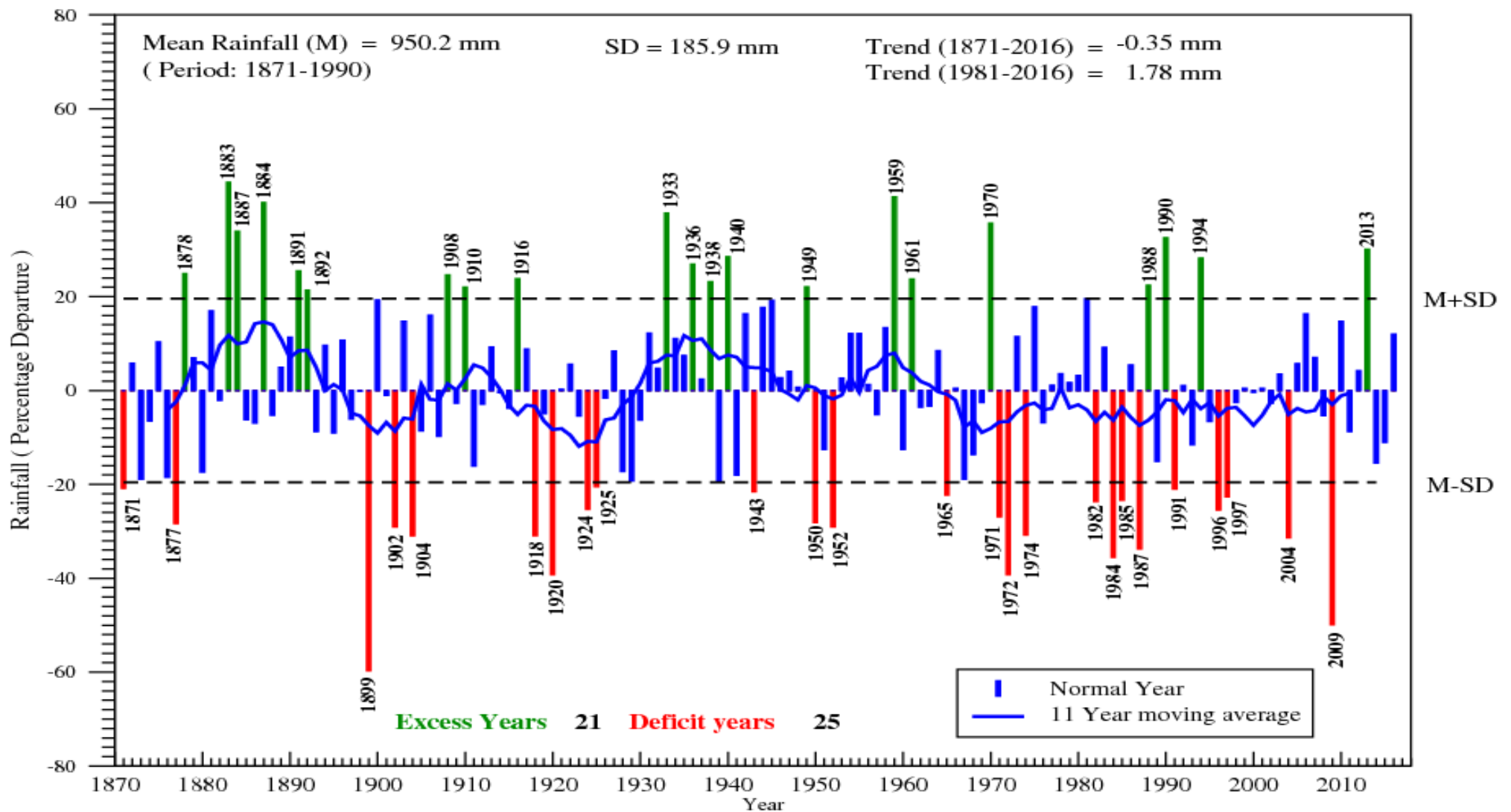


Figure 29 : Vidharbha subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

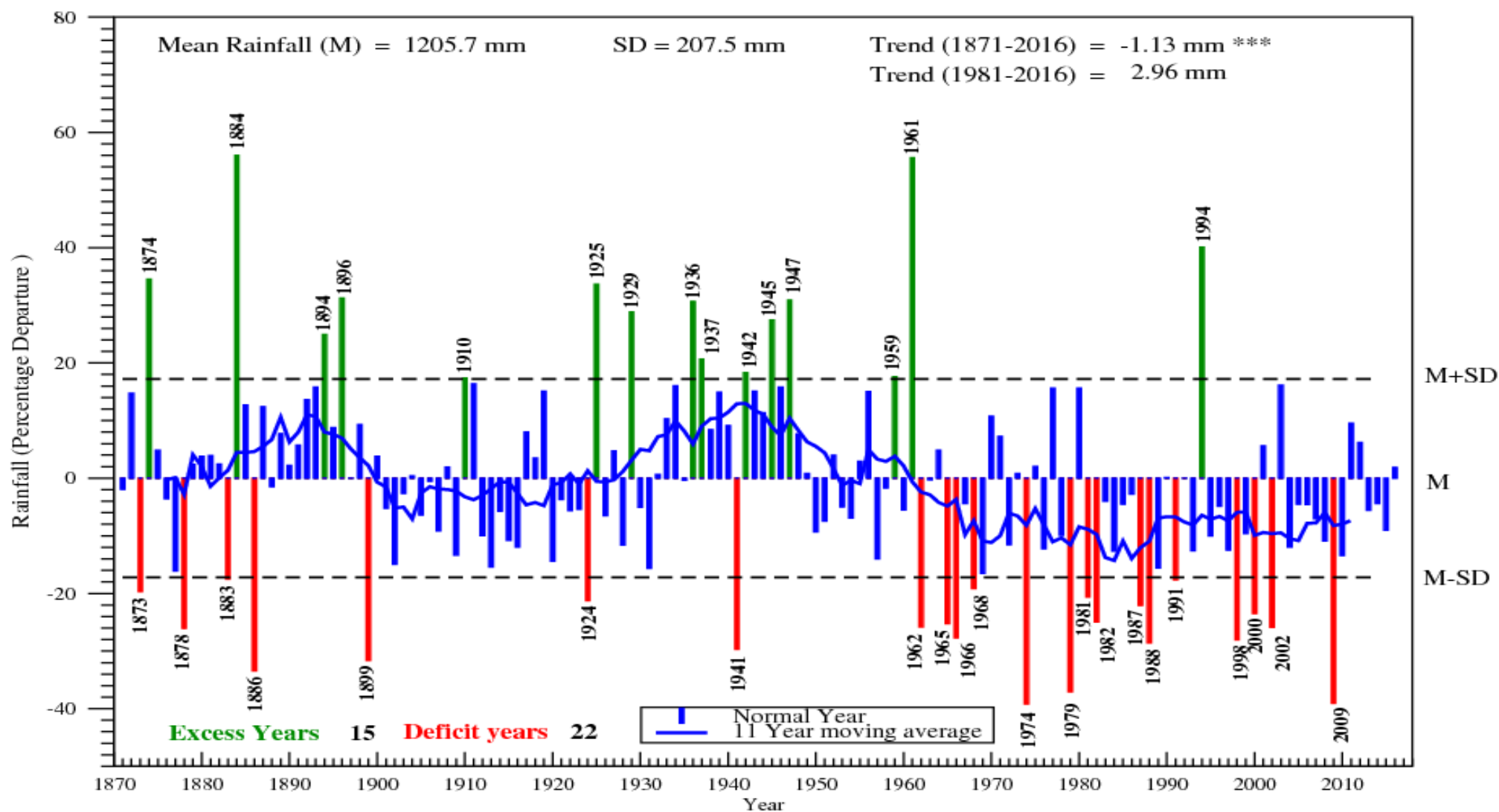


Figure 30: Chhatisgarh subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5 % and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

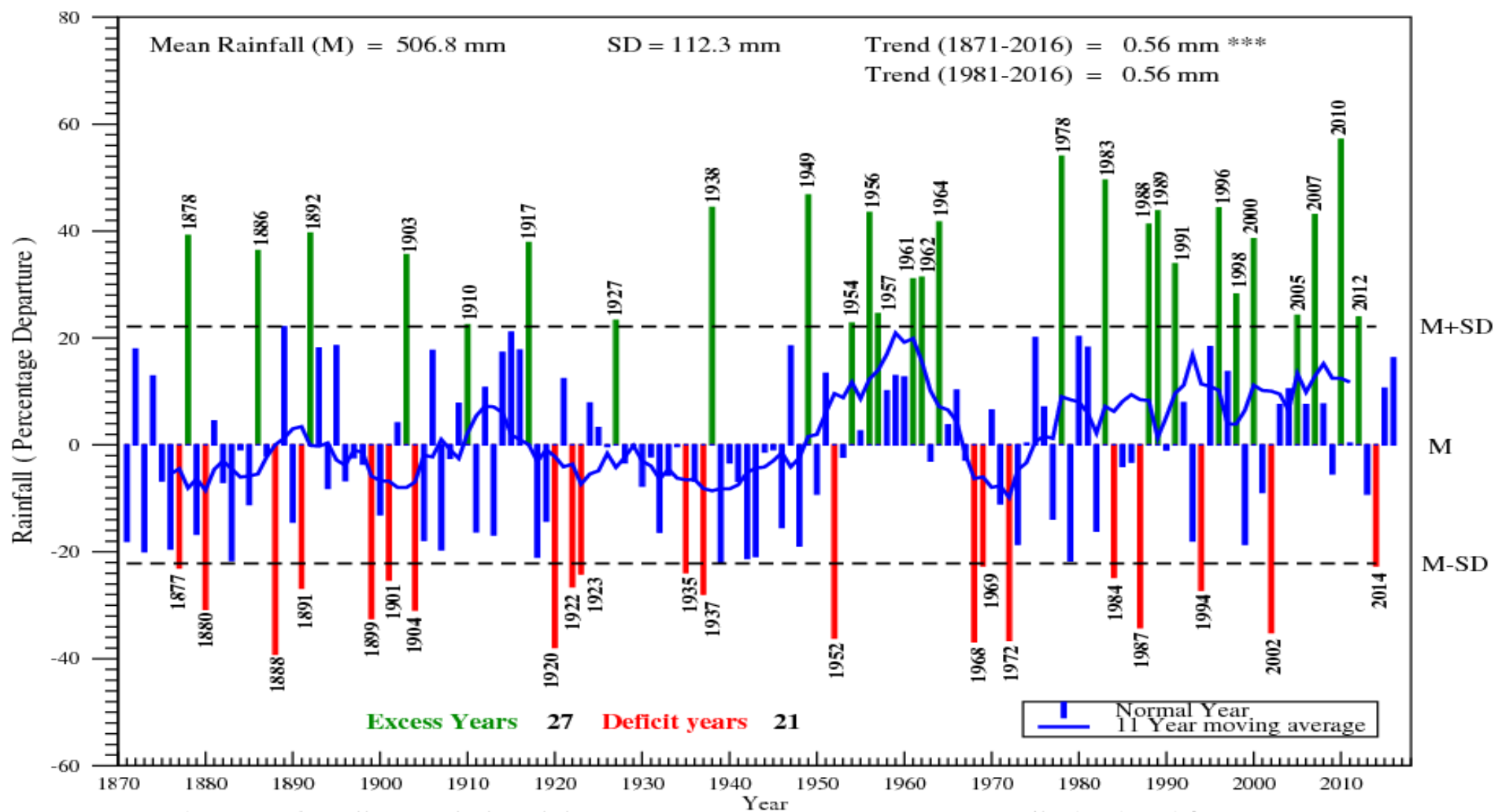


Figure 31 : Coastal Andhra Pradesh subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend mm/year, * , ** and *** significance at 10%, 5% and 1% level , rainfall data for the period 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)

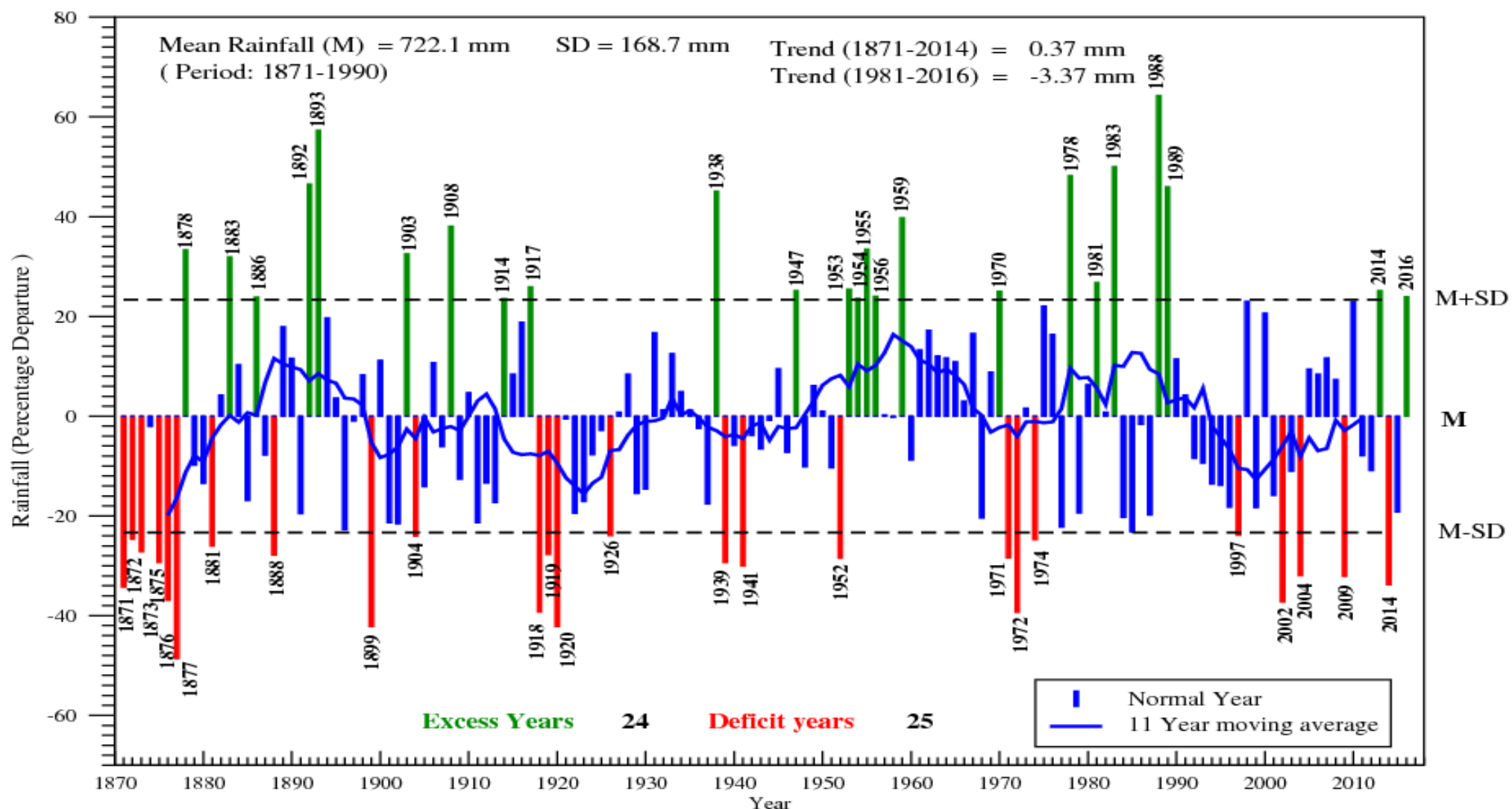


Figure 32 : Telangana subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2012 based on 306 stations and 2013-2016 based on IMD subdivisional rainfall)

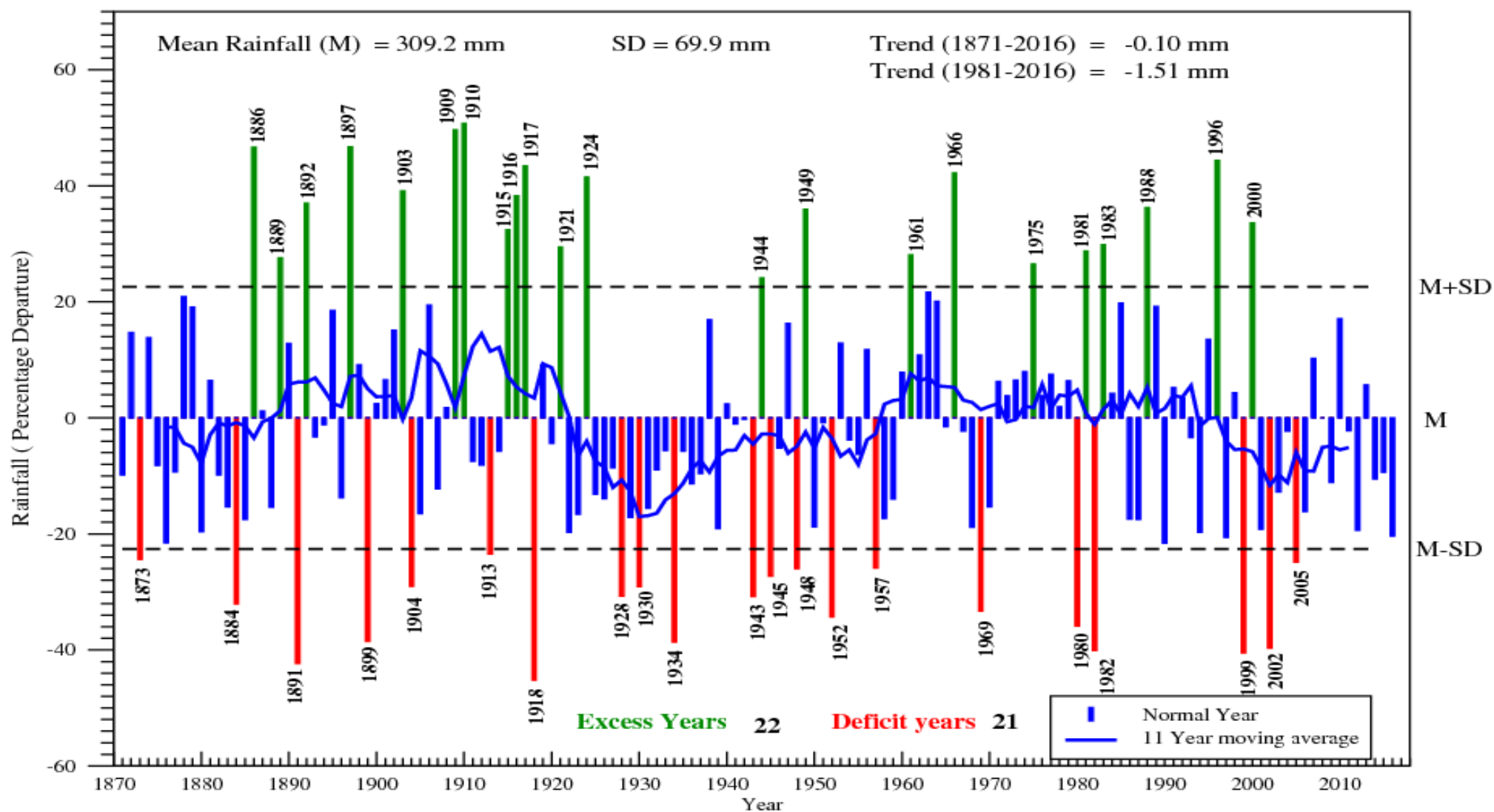


Figure 34 : Tamil Nadu and Pondicherry subdivision summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

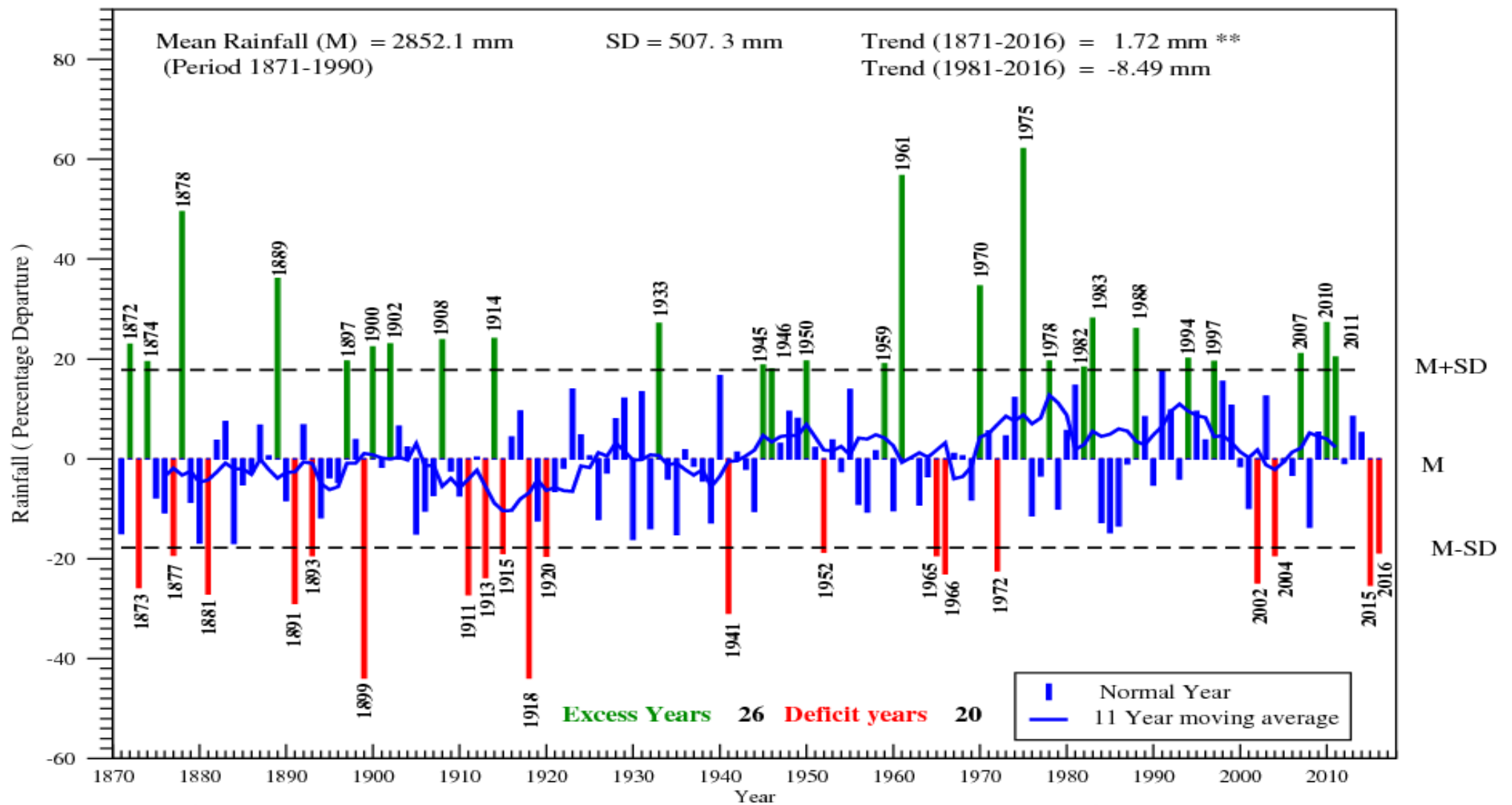


Figure 35 : Coastal Karnataka subdivision summer monsoon (JJAS) rainfall : 1871-2016
 (Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

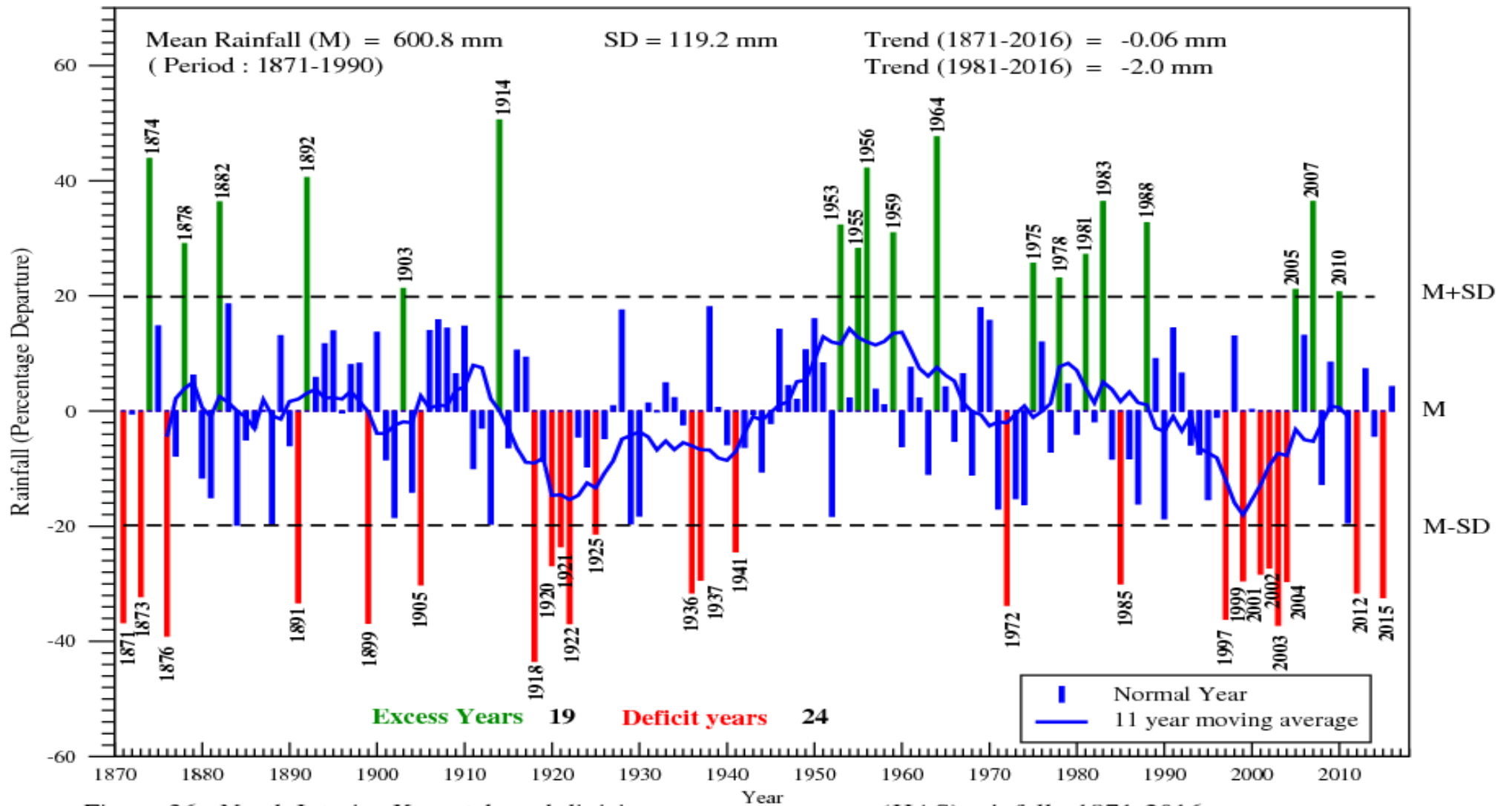


Figure 36 : North Interior Karnataka subdivision summer monsoon (JJAS) rainfall :1871-2016
 (Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

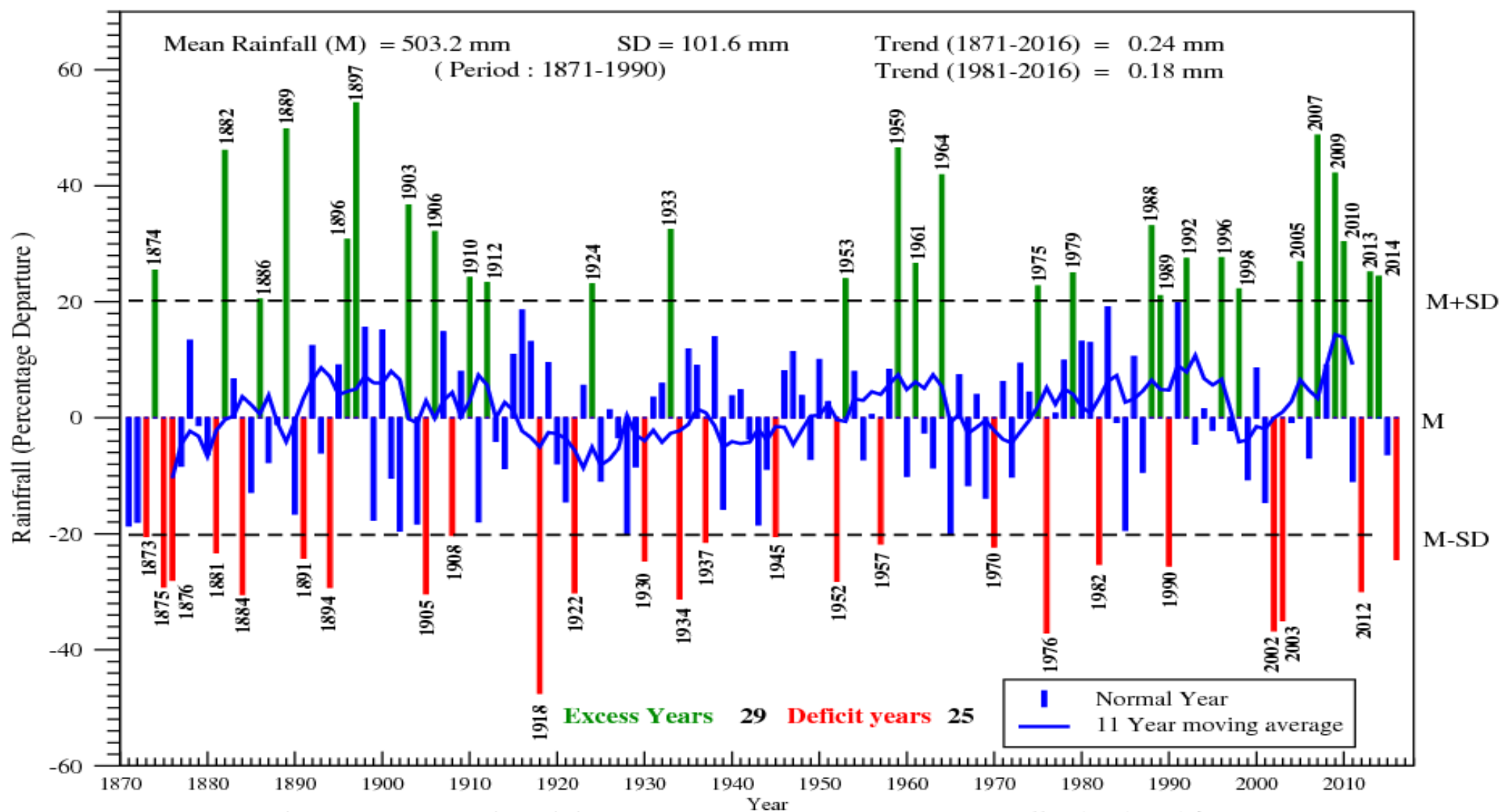


Figure 37 : South Interior Karnataka subdivision summer monsoon (JJAS)rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significantce at 10%, 5% and 1% level, rainfall data for the period 1871-2013 based on 306 stations and 2014-2016 based on IMD subdivisional rainfall)

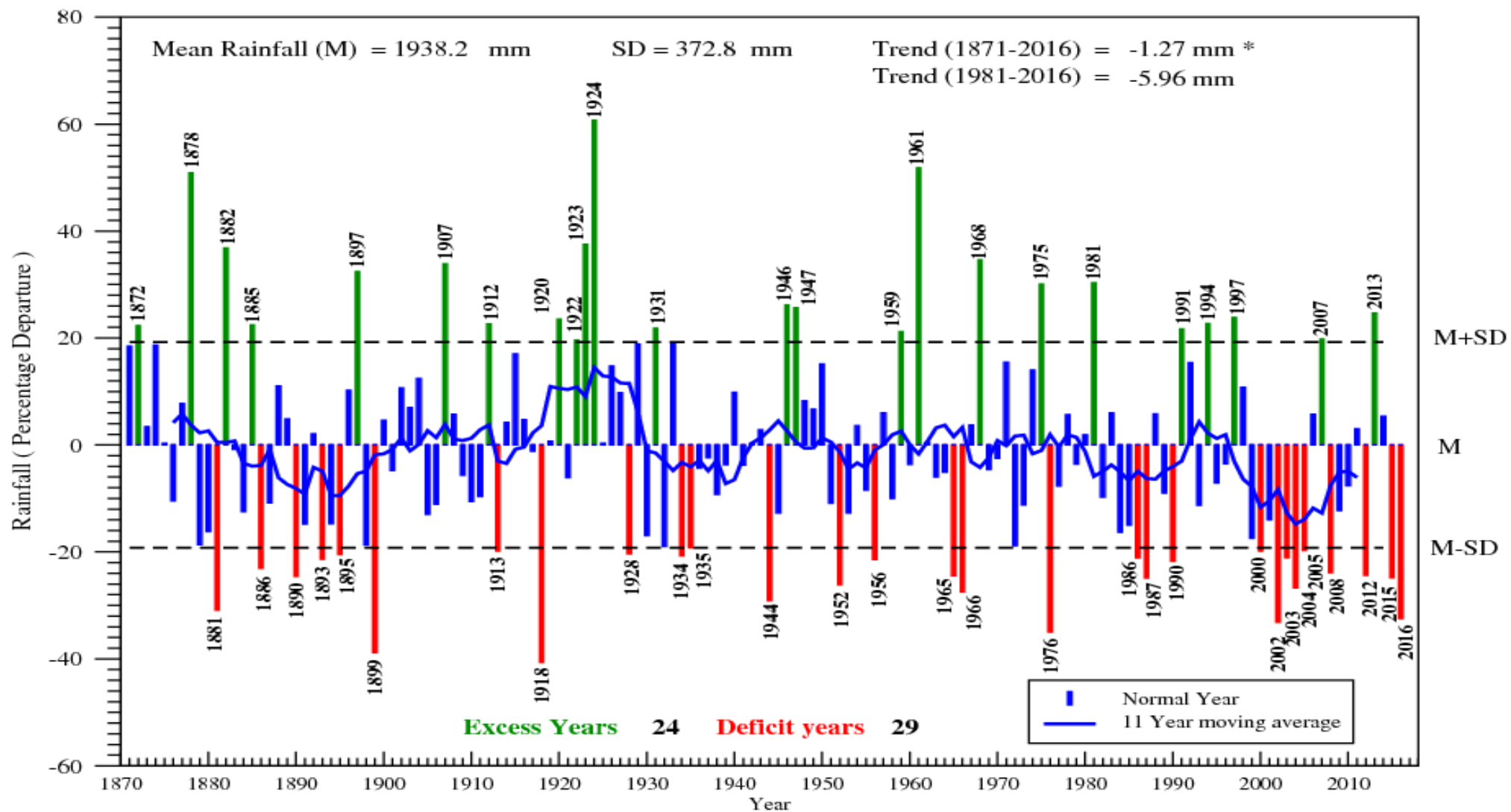


Figure 38 : Kerala subdivision summer monsoon (JJAS) rainfall : 1871-2016

(Trend - mm/year, *, ** and *** significance at 10%, 5% and 1% level, rainfall data for the period 1871-2014 based on 306 stations and 2015-2016 based on IMD subdivisional rainfall)

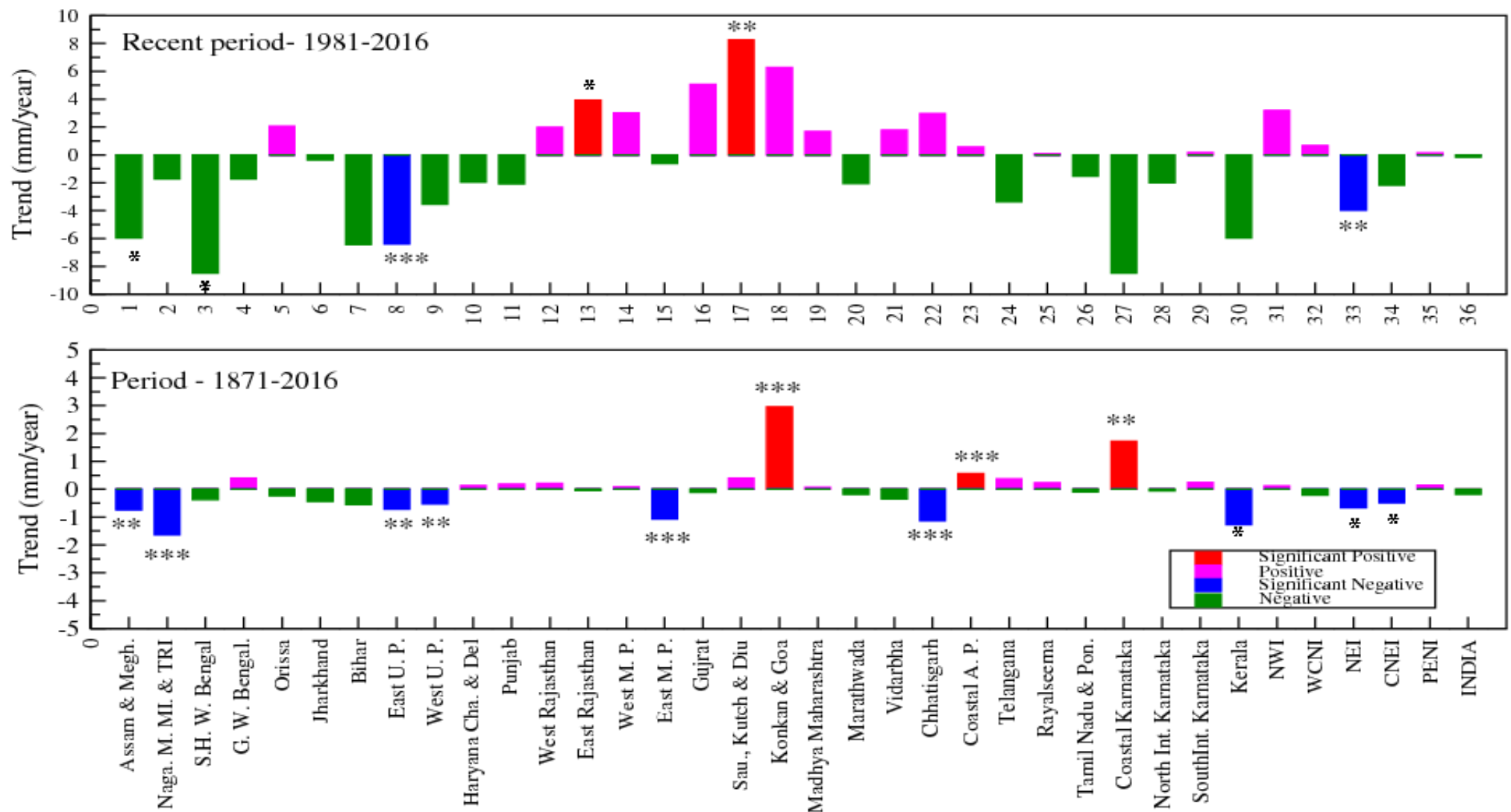


Figure 39 : Trends in subdivisional, Homogeneous regions and all-India summer monsoon (JJAS) rainfall for the periods 1871-2016 and 1981-2016 (*, ** and *** significance at 10%, 5% and 1% level)

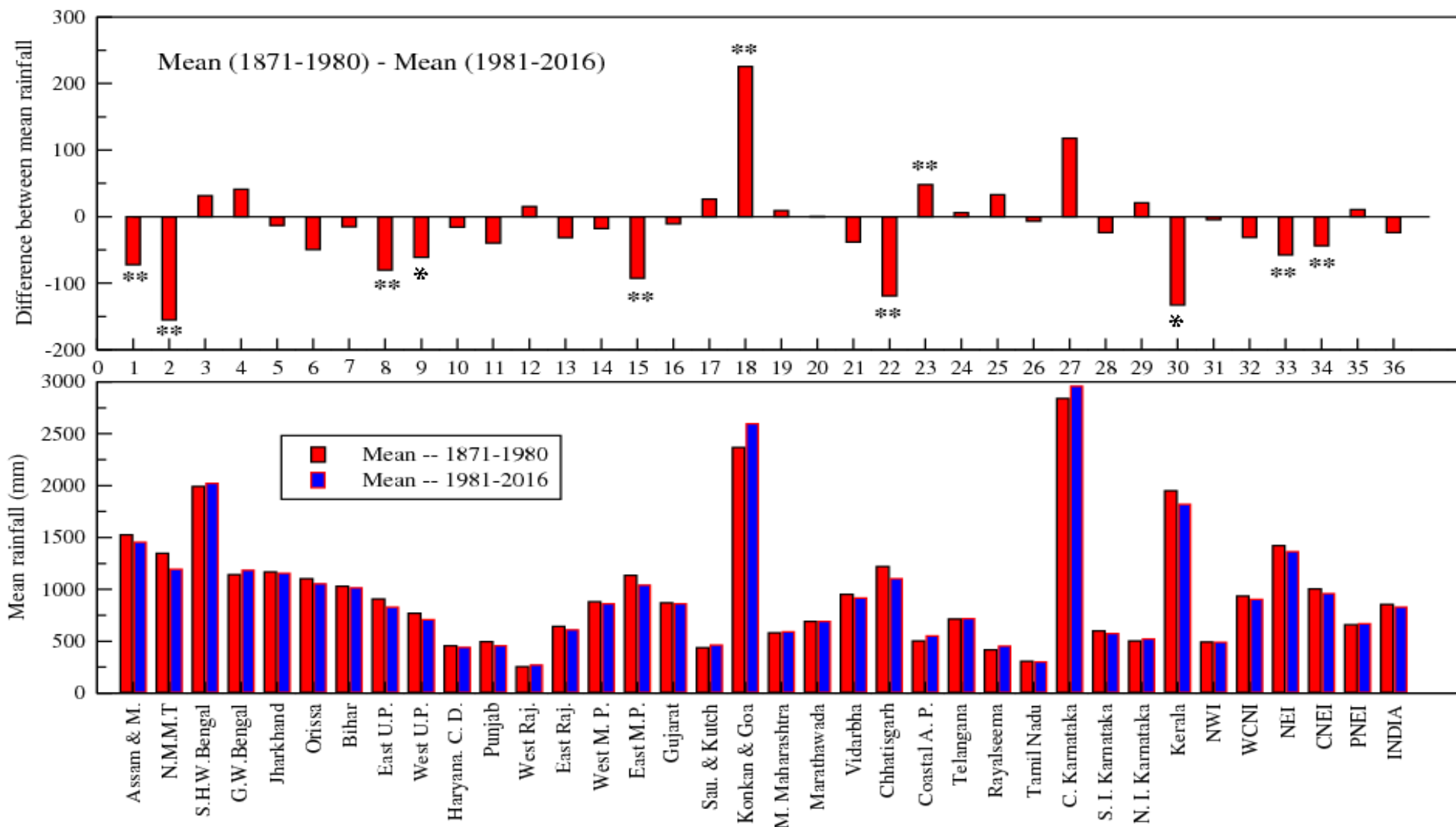


Figure 40 : Comparison between mean summer monsoon rainfall based on the period 1871-1980 and 1981-2016 for 30 sub-divisions, 5 homogeneous regions and India (* and ** significance at 10% and 5 % level)

Table 1: **ALL-INDIA RAINFALL (1871-2016) 30 SUBDIVISIONS, AREA 2880324 SQ.KM.**

Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall)

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	196	107	145	339	636	2080	2778	1794	1836	368	324	67	303	1120	8487	758	10670
1872	76	75	73	240	438	1892	2913	2452	1879	785	276	191	151	751	9136	1252	11289
1873	37	135	150	243	428	1130	2645	2142	1656	607	115	90	172	821	7573	812	9378
1874	86	158	107	169	683	2279	3069	2335	2062	932	187	40	244	959	9745	1159	12106
1875	99	114	131	232	506	1926	3079	2187	2105	566	63	71	213	869	9297	700	11078
1876	9	21	160	165	425	1233	2968	1956	1620	464	95	25	30	750	7776	584	9141
1877	291	234	240	353	674	1424	1564	1569	1483	1078	189	365	525	1267	6040	1632	9464
1878	108	91	102	361	665	1304	2940	3393	2124	798	273	140	199	1128	9761	1211	12299
1879	21	107	80	82	877	1900	2241	3221	1616	866	205	71	127	1039	8978	1142	11287
1880	39	165	151	211	496	1876	2717	1768	1840	877	528	111	204	858	8201	1516	10779
1881	13	32	331	237	531	1607	2927	2646	1433	493	347	62	45	1099	8613	902	10658
1882	100	94	90	188	596	2130	3311	1903	1685	739	596	62	194	873	9029	1397	11493
1883	179	36	189	165	621	2043	2690	1879	1881	830	282	155	215	975	8492	1267	10949
1884	71	74	82	203	383	1593	2924	2426	2385	866	270	305	145	668	9328	1441	11582
1885	96	99	136	199	528	1940	2728	2479	1327	737	321	502	195	863	8474	1560	11092
1886	49	12	222	124	711	1977	3159	2218	1390	1320	214	171	61	1057	8744	1705	11567
1887	176	6	148	209	552	1898	3013	2574	1508	879	411	130	182	909	8993	1420	11503
1888	197	136	119	259	531	1323	2743	2800	1250	382	531	72	333	908	8116	985	10342
1889	106	134	66	243	448	2035	2797	2781	1693	940	254	68	240	757	9306	1262	11565
1890	26	11	173	261	358	2279	3009	2141	1626	647	351	136	37	792	9055	1134	11017
1891	115	134	348	207	595	834	2571	2297	2222	602	173	71	249	1150	7924	846	10169
1892	53	106	56	329	541	1579	3139	3063	2135	993	126	70	159	926	9916	1189	12190
1893	224	283	467	252	946	2416	2568	2309	2256	970	642	22	506	1665	9549	1634	13354
1894	115	144	181	248	360	2168	3114	2415	2017	1388	385	137	259	789	9714	1910	12672
1895	109	77	118	376	415	1982	2567	2299	1388	793	134	119	185	908	8236	1046	10377
1896	31	61	68	170	412	2034	2845	2633	773	149	435	175	92	650	8284	759	9786
1897	92	124	208	216	435	1426	2599	2905	1981	856	130	18	215	859	8911	1004	10990
1898	21	307	28	211	375	1717	2929	2208	1992	655	393	125	328	614	8846	1173	10961
1899	58	66	74	522	526	1951	1878	1441	1020	507	41	26	124	1122	6290	574	8109
1900	153	67	103	385	406	1287	2521	2713	2372	490	104	141	220	893	8893	735	10742
1901	274	337	113	316	391	1149	2225	2590	1256	540	431	95	611	820	7220	1066	9717
1902	67	25	102	354	418	1038	2796	1972	2112	697	278	269	92	874	7918	1244	10128
1903	85	55	102	121	562	1269	2789	2593	1957	1288	434	152	140	785	8608	1874	11407
1904	59	86	203	311	686	1795	2476	1970	1262	707	90	99	145	1200	7503	896	9744
1905	128	144	286	271	476	908	2456	2052	1748	610	98	25	272	1033	7164	733	9202
1906	151	385	220	135	328	1818	2875	2418	1738	544	199	264	536	683	8849	1007	11075
1907	63	324	256	523	264	1541	2217	3014	1003	205	238	128	387	1043	7774	571	9775
1908	156	126	68	156	390	1278	3164	2955	1573	424	59	18	282	614	8970	501	10367
1909	162	57	30	605	519	2098	2961	2226	1608	369	101	244	219	1154	8893	714	10980
1910	54	42	79	211	357	2117	2377	2827	2028	1085	379	3	96	647	9349	1467	11559
1911	162	13	241	196	441	1925	1534	2110	1794	725	415	114	175	878	7363	1254	9670
1912	70	187	129	309	362	1058	3206	2579	1215	660	559	25	257	800	8058	1244	10359
1913	12	310	163	204	701	2151	2642	1881	1170	731	179	208	322	1068	7844	1118	10352
1914	12	121	147	345	634	1616	3208	2328	1828	410	206	156	133	1126	8980	772	11010
1915	183	256	390	259	631	1567	2298	2131	1810	887	545	61	439	1280	7806	1493	11017
1916	12	93	33	233	481	1991	2582	2897	2036	1473	508	29	105	747	9506	2010	12368
1917	32	346	146	233	714	2143	2466	2755	2678	1595	316	46	378	1093	10042	1957	13470
1918	106	20	145	186	880	1813	1435	2205	1055	147	472	111	126	1211	6508	730	8575
1919	374	122	115	203	512	1794	2712	2808	1531	707	590	137	496	830	8845	1434	11604
1920	207	87	255	228	454	1426	2916	1628	1220	484	303	5	294	937	7190	792	9213
1921	295	23	110	319	295	1672	2666	2362	1958	663	191	46	318	724	8658	900	10600
1922	228	47	42	169	371	1803	2910	2028	1949	518	648	92	275	582	8690	1258	10804
1923	107	263	158	207	398	936	2970	2604	1720	608	207	139	370	763	8230	954	10317
1924	141	70	54	226	406	1108	2999	2250	2269	617	628	106	211	686	8626	1351	10874
1925	43	24	94	305	806	1871	2858	2133	1174	720	434	176	67	1205	8036	1330	10637
1926	267	50	418	270	518	815	2876	3236	2099	531	109	57	317	1206	9026	697	11246
1927	79	232	163	233	441	1611	3194	2218	1507	613	611	94	311	837	8530	1317	10996

1928	99	282	86	229	409	1541	2834	1982	1320	1238	169	168	381	724	7677	1575	10357
1929	178	152	97	406	458	1828	2870	2212	1301	919	200	264	330	961	8211	1383	10885
1930	88	116	113	249	537	1731	2801	1783	1729	973	593	98	204	899	8044	1664	10811
1931	41	174	97	212	431	1148	2826	2898	1898	1282	464	245	215	740	8770	1991	11716
1932	14	160	113	222	656	1121	3136	2041	1736	703	606	79	174	991	8034	1387	10587
1933	78	202	107	359	1010	2023	2572	3103	2060	913	197	175	280	1476	9758	1285	12799
1934	147	75	88	257	332	2035	2548	2838	1713	693	341	51	222	677	9134	1085	11117
1935	147	105	64	283	205	1402	3047	2218	1768	544	108	90	252	552	8435	742	9981
1936	60	291	182	187	837	2394	2604	2189	1895	702	625	103	351	1206	9082	1430	12069
1937	10	410	119	485	470	1557	3283	1891	1688	947	214	100	420	1074	8419	1261	11174
1938	115	146	154	193	645	2388	2678	2420	1596	783	167	33	261	992	9082	983	11318
1939	73	161	179	288	287	1474	2528	2367	1525	935	333	12	234	753	7894	1280	10162
1940	75	171	341	193	673	1693	2883	2843	1112	722	455	150	246	1207	8531	1327	11311
1941	196	104	70	231	608	1643	2183	2098	1359	681	272	126	300	909	7283	1079	9570
1942	133	274	92	341	425	1738	3225	2808	1806	382	206	222	407	858	9577	810	11651
1943	405	75	113	352	765	1533	2971	2137	2041	985	186	35	480	1230	8682	1206	11598
1944	189	280	506	238	400	1372	3460	2974	1397	954	300	88	469	1144	9203	1342	12158
1945	236	56	47	339	405	1588	3137	2257	2126	829	200	28	292	791	9108	1057	11248
1946	10	111	151	431	527	2075	2822	2767	1372	885	850	316	121	1109	9036	2051	12317
1947	169	109	162	306	395	1227	2909	2960	2357	688	67	194	278	863	9453	949	11542
1948	254	141	118	275	652	1505	2794	2608	1832	659	815	35	395	1045	8739	1509	11688
1949	41	109	53	370	804	1380	2946	2382	2329	997	106	11	150	1227	9037	1114	11527
1950	58	178	224	80	440	1468	3229	2237	1835	520	331	72	235	744	8769	922	10672
1951	59	21	279	362	470	1551	2543	2076	1218	795	339	9	80	1111	7388	1143	9722
1952	22	115	153	273	647	1617	2766	2367	1179	811	63	180	137	1073	7929	1054	10193
1953	192	43	101	273	366	1563	3000	2868	1798	932	137	18	235	740	9229	1087	11291
1954	129	162	118	197	442	1382	2837	2229	2405	798	18	134	291	757	8853	950	10851
1955	156	29	125	284	659	1797	2239	3039	2225	1452	315	106	185	1068	9300	1873	12426
1956	86	72	162	226	870	2079	3415	2538	1800	1525	484	90	158	1258	9832	2099	13347
1957	244	70	260	191	494	1453	2619	2603	1210	597	261	65	314	945	7885	923	10067
1958	70	106	97	282	602	1151	2899	2701	2142	1020	350	49	176	981	8893	1419	11469
1959	203	102	96	228	585	1573	3211	2501	2156	1333	214	43	305	909	9441	1590	12245
1960	89	11	232	130	555	1461	2777	2502	1657	761	391	50	100	917	8397	1202	10616
1961	166	245	163	175	675	1870	3162	2737	2433	1257	186	71	411	1013	10202	1514	13139
1962	91	110	115	346	581	1059	2594	2363	2082	844	152	288	201	1042	8098	1284	10625
1963	73	52	141	321	472	1525	2396	3029	1629	989	229	100	125	933	8579	1318	10956
1964	14	58	83	249	437	1437	3130	2637	2021	734	258	65	72	769	9225	1057	11123
1965	55	92	149	243	346	1104	2669	1894	1427	362	158	221	147	737	7093	741	8719
1966	147	52	51	161	520	1658	2375	1982	1384	580	612	179	199	732	7399	1370	9701
1967	92	27	528	225	333	1414	2924	2574	1689	420	132	496	119	1086	8601	1048	10853
1968	150	121	201	269	316	1365	2886	1947	1348	703	238	70	271	786	7546	1011	9614
1969	40	28	95	242	557	1210	3004	2387	1709	596	439	139	68	894	8310	1174	10446
1970	169	207	184	240	580	2108	2228	2989	2073	762	194	8	376	1004	9398	964	11742
1971	114	103	93	460	702	2194	2493	2588	1593	1052	138	100	217	1255	8868	1290	11630
1972	25	131	48	206	448	1226	1838	2172	1292	633	308	160	156	702	6528	1101	8487
1973	47	119	78	195	488	1412	2787	3075	1860	1259	196	178	165	761	9134	1633	11694
1974	19	39	139	222	606	1059	2736	2282	1403	1066	119	42	58	967	7480	1227	9732
1975	67	96	137	164	406	1801	2901	2647	2278	1217	250	28	163	707	9627	1495	11992
1976	47	81	125	298	367	1419	2882	2786	1481	319	617	40	128	790	8568	976	10462
1977	70	57	84	489	719	1883	3106	2395	1448	893	714	86	127	1292	8832	1693	11944
1978	73	216	195	234	503	1996	2761	2735	1601	551	442	230	289	932	9093	1223	11537
1979	146	273	99	158	405	1434	2258	1990	1395	461	883	120	419	662	7077	1464	9622
1980	44	53	169	246	441	2151	2783	2534	1360	518	242	178	97	856	8828	938	10719
1981	163	73	247	276	583	1387	2889	2263	1983	510	292	128	235	1106	8522	930	10793
1982	167	111	249	366	504	1296	2163	2685	1210	487	504	57	278	1119	7354	1048	9799
1983	73	106	127	354	549	1378	2737	2934	2507	900	122	262	179	1030	9556	1284	12048
1984	161	266	122	279	390	1739	2612	2591	1425	601	132	78	427	791	8367	811	10396
1985	171	69	96	236	439	1404	2534	2185	1475	1138	193	131	240	771	7598	1462	10071
1986	148	281	75	310	435	1776	2384	2135	1135	707	386	169	429	820	7430	1262	9941
1987	113	93	167	216	448	1158	2068	2370	1375	867	542	235	206	831	6971	1644	9652
1988	25	112	188	319	503	1565	3232	2762	2056	502	225	102	137	1010	9615	828	11591
1989	61	38	191	166	426	1835	2862	2311	1658	485	149	121	99	783	8666	755	10303
1990	52	256	237	299	1077	1721	2630	2836	1899	1007	335	88	308	1612	9086	1430	12437
1991	90	75	127	263	506	1858	2607	2431	1265	649	353	146	165	896	8161	1148	10370

1992	55	78	40	130	494	1367	2552	2724	1505	618	446	42	133	664	8148	1105	10051
1993	44	131	174	256	522	1660	2811	1894	2095	902	309	207	175	952	8460	1418	11005
1994	147	147	125	350	398	2033	3341	2706	1495	874	299	40	294	873	9575	1213	11955
1995	271	102	184	173	782	1217	2847	2439	1693	874	348	47	373	1139	8196	1269	10977
1996	123	132	115	242	403	1769	2454	2737	1550	951	129	173	255	760	8510	1253	10778
1997	100	36	144	378	395	1653	2691	2541	1660	714	586	568	136	917	8545	1868	11466
1998	122	125	261	284	417	1440	2597	2441	2114	1179	458	124	247	962	8592	1760	11562
1999	44	93	26	128	914	1677	2499	2027	1875	1268	167	40	137	1068	8078	1475	10757
2000	50	215	74	278	785	1880	2570	2169	1239	453	129	75	265	1137	7858	657	9917
2001	48	63	101	355	608	2203	2680	1899	1163	1156	190	109	111	1064	7944	1455	10575
2002	117	140	127	262	548	1703	1213	2278	1274	651	208	40	257	937	6468	898	8561
2003	42	233	178	231	263	1617	2931	2272	1741	1024	128	120	275	672	8561	1272	10780
2004	138	29	53	425	800	1600	2180	2425	1212	962	168	17	167	1278	7417	1147	10009
2005	184	123	213	339	434	1422	2970	1879	2014	1132	259	122	307	986	8285	1512	11091
2006	11	26	317	254	858	1547	2851	2900	1755	617	334	39	37	1429	9053	990	11509
2007	8	288	142	322	450	1949	2796	2577	2149	582	168	172	296	914	9471	922	11602
2008	111	109	405	216	441	2035	2444	2629	1714	533	313	51	220	1062	8822	897	11001
2009	36	18	98	136	496	899	2688	1952	1481	763	574	132	53	730	7020	1469	9273
2010	63	48	93	293	616	1383	2915	2571	1988	802	713	221	111	1002	8857	1736	11706
2011	24	111	88	334	500	1846	2402	2809	1972	426	217	60	135	922	9029	703	10789
2012	182	25	39	343	252	1127	2520	2576	1828	650	344	57	207	634	8051	1051	9943
2013	47	265	99	273	549	2285	3122	2467	1599	1397	149	39	312	921	9473	1584	12291
2014	133	233	211	134	648	908	2564	2190	1702	618	150	99	366	993	7364	867	9590
2015	152	42	375	540	458	1862	2305	1855	1259	366	443	123	194	1373	7281	932	9780
2016	50	50	139	199	604	1475	2981	2306	1687	521	80	70	100	942	8449	671	10162

 Values are up to 1 decimal

MEAN	107	124	152	264	527	1630	2725	2422	1703	775	308	117	232	944	8481	1201	10859
P-Ann	9	11	14	24	48	150	250	223	156	71	28	10	21	86	781	110	1000
SD	75	88	93	90	159	362	373	375	365	286	182	93	115	204	831	344	1010
CV	702	708	612	344	302	222	137	155	214	369	590	794	499	216	98	286	93

Table 2: NORTHWEST INDIA RAINFALL (1871-2016) 6 SUB, Area 634272 SQ.KM.

Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2013 (1871-2014 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	27	89	0	14	293	1211	1938	1152	306	19	143	53	115	307	4607	215	5245
1872	50	19	16	16	99	795	1860	2177	715	3	0	59	69	131	5547	62	5809
1873	20	111	13	16	179	497	1912	1718	918	110	19	17	131	208	5045	146	5530
1874	41	30	47	3	72	880	1892	1398	539	0	0	1	71	122	4709	1	4903
1875	4	217	37	14	151	329	2025	968	2387	47	0	50	221	202	5709	97	6229
1876	4	19	48	52	108	306	2227	1098	1025	81	9	0	23	208	4656	90	4977
1877	134	205	49	64	158	385	550	159	790	525	59	349	339	271	1884	933	3426
1878	58	83	11	99	319	786	2756	2698	1043	44	0	16	141	429	7283	60	7913
1879	13	123	41	1	50	1212	708	2638	739	107	0	57	136	92	5297	164	5689
1880	7	86	0	0	43	613	2114	949	1285	249	11	60	93	43	4961	320	5416
1881	6	51	150	98	68	401	3295	1769	514	21	0	25	57	316	5979	46	6398
1882	157	54	0	13	82	803	3078	809	947	0	7	1	211	95	5636	8	5951
1883	210	3	66	5	334	604	1919	368	1394	153	27	4	213	405	4284	184	5087
1884	33	34	16	1	39	959	2422	1285	2167	69	3	22	67	56	6833	94	7050
1885	164	6	12	41	236	603	1598	2362	128	122	3	115	170	289	4691	240	5390
1886	74	4	85	8	149	1144	2591	1292	228	246	5	15	78	242	5255	266	5841
1887	88	3	1	10	10	732	2509	1763	407	15	64	27	91	21	5411	106	5629
1888	128	160	32	12	12	363	1291	2089	257	54	160	0	288	56	4000	214	4558
1889	100	138	29	25	254	828	1918	2267	158	98	0	0	238	308	5171	98	5815
1890	12	5	51	20	26	1073	1707	1254	355	49	12	139	17	97	4389	200	4703
1891	176	16	185	26	87	115	2123	954	828	84	0	0	192	298	4020	84	4594
1892	120	25	2	0	129	448	2165	2222	2009	89	1	117	145	131	6844	207	7327
1893	192	198	84	18	214	1802	2002	1172	1505	16	304	26	390	316	6481	346	7533
1894	259	48	50	7	50	1794	3126	1048	1031	260	18	210	307	107	6998	488	7901
1895	162	31	83	42	11	730	1529	1480	206	81	0	9	193	136	3945	90	4364
1896	15	53	22	0	29	1148	1923	1653	102	6	221	69	68	51	4826	296	5241
1897	41	13	17	48	39	228	1739	2167	880	126	0	5	53	104	5014	131	5303
1898	7	305	0	1	126	643	2098	588	845	0	7	119	312	127	4174	125	4739
1899	0	14	0	35	78	966	469	101	84	4	0	4	14	113	1620	8	1755
1900	48	6	7	115	123	94	1329	2903	1614	7	17	97	54	245	5940	121	6360
1901	138	88	41	10	85	146	1305	1078	92	52	0	10	226	136	2621	62	3045
1902	13	2	11	21	78	370	1305	1248	1297	66	1	22	15	110	4220	89	4434
1903	44	14	73	1	94	123	2486	1408	1062	60	0	9	58	168	5079	69	5374
1904	53	49	266	2	159	290	1260	997	561	21	45	98	102	427	3108	164	3800
1905	109	89	42	21	14	108	1742	189	641	2	0	17	198	77	2680	19	2974
1906	8	369	111	2	10	733	1651	1272	1256	41	0	39	377	123	4912	80	5492
1907	50	371	102	119	64	277	1415	3052	36	0	0	0	421	284	4780	0	5486
1908	137	17	1	59	68	335	3030	2947	469	30	11	2	154	128	6781	42	7106
1909	50	60	0	264	21	972	2415	1327	1334	12	0	186	110	285	6048	198	6641
1910	63	13	0	26	8	1337	1329	2233	592	180	16	4	76	34	5491	200	5801
1911	207	8	390	7	2	656	261	482	769	47	105	1	215	399	2168	153	2935
1912	142	32	17	41	40	440	2921	1677	353	65	100	7	174	98	5391	172	5835
1913	1	126	74	3	272	1406	1756	1103	606	4	7	95	127	349	4871	106	5453
1914	28	64	15	83	82	1085	2262	813	1410	106	56	6	92	180	5570	168	6009
1915	134	268	220	24	36	429	688	542	411	469	0	5	401	280	2070	474	3225
1916	11	33	4	18	121	542	1359	2724	1226	293	5	0	44	143	5851	298	6336
1917	32	50	28	187	725	1055	1744	2795	2574	1367	0	15	82	940	8168	1382	10572
1918	20	0	76	48	41	189	387	1036	134	0	13	4	20	165	1745	17	1948
1919	217	16	20	53	110	254	1801	2355	525	58	112	70	233	183	4935	240	5591
1920	130	55	37	13	448	1180	1838	685	117	1	0	1	185	498	3820	2	4505
1921	67	3	0	4	1	168	2240	1071	1512	64	0	19	70	5	4991	83	5149
1922	45	20	2	7	34	527	1593	735	1535	38	6	90	65	43	4390	134	4632
1923	66	191	20	15	156	80	1867	1779	300	18	3	84	257	191	4025	105	4578
1924	108	72	4	2	80	328	1727	1383	1582	145	8	143	180	86	5020	296	5582
1925	19	1	0	8	122	1360	1466	506	109	25	97	0	20	130	3441	122	3713
1926	68	13	214	43	278	113	2019	2837	2038	4	3	8	81	535	7007	15	7638
1927	0	130	30	16	75	462	3100	1589	482	126	96	239	130	121	5633	461	6344

1928	47	80	10	15	12	254	1874	1548	602	281	128	50	127	37	4278	459	4901
1929	44	4	0	56	59	490	2354	1311	149	53	0	159	48	115	4304	212	4679
1930	96	32	10	23	129	850	2268	849	411	259	2	16	128	161	4378	277	4945
1931	15	48	38	3	104	118	1639	2882	408	428	13	5	63	145	5047	446	5701
1932	22	18	91	18	51	216	2492	1177	494	68	0	44	40	160	4379	112	4691
1933	5	96	60	112	469	1030	1565	2928	1430	67	35	16	101	641	6953	118	7813
1934	40	2	143	5	26	1055	1208	2618	458	2	29	40	42	174	5338	71	5626
1935	185	75	34	134	10	323	2460	818	933	82	20	51	260	178	4533	153	5125
1936	4	94	69	9	23	1152	1013	911	867	14	202	56	97	101	3943	272	4414
1937	4	300	16	53	35	845	2980	249	1155	35	1	136	304	104	5229	172	5808
1938	108	29	3	10	78	1273	1412	859	82	91	0	3	137	91	3626	94	3948
1939	10	243	118	6	0	350	776	1064	428	8	5	0	253	124	2618	13	3007
1940	233	151	128	21	20	674	1141	2007	305	150	79	0	384	169	4127	229	4909
1941	145	45	16	1	88	405	2266	1301	304	21	0	31	190	105	4276	52	4623
1942	98	218	15	37	131	450	2494	2305	917	4	0	61	316	183	6166	65	6730
1943	88	2	8	36	77	521	2815	600	837	84	1	0	90	121	4773	85	5069
1944	144	115	183	119	29	568	2818	3220	313	73	2	14	259	331	6918	89	7598
1945	242	0	16	46	126	905	2855	1460	1642	19	0	0	242	188	6862	19	7311
1946	1	57	6	9	89	1126	1372	2453	516	68	106	115	57	104	5466	289	5917
1947	55	37	13	189	12	51	949	2143	2118	89	9	52	92	214	5261	149	5717
1948	250	152	94	9	14	302	1397	1366	494	102	92	24	402	116	3559	218	4296
1949	27	89	4	5	39	295	2381	1219	917	48	6	8	115	48	4812	62	5037
1950	67	30	66	1	34	98	3457	1078	1651	1	0	0	97	101	6284	1	6483
1951	30	3	108	65	89	389	1121	1195	78	18	260	1	33	262	2783	279	3356
1952	25	60	41	11	26	743	2620	1439	57	3	6	11	85	78	4859	20	5042
1953	215	2	0	27	24	580	1511	3083	602	9	0	15	217	51	5776	24	6068
1954	64	255	37	0	10	521	1986	1085	2206	199	5	4	319	47	5798	208	6372
1955	78	16	41	24	62	524	562	2628	1755	755	0	5	94	127	5469	760	6450
1956	56	10	117	8	56	495	3411	1861	587	1056	4	23	66	181	6354	1083	7684
1957	249	5	235	10	86	623	1878	1483	411	92	89	48	254	331	4395	228	5209
1958	48	5	13	12	22	366	1904	1230	2356	230	112	77	53	47	5856	419	6375
1959	72	35	17	36	148	502	3406	1647	1747	600	89	0	107	201	7302	689	8299
1960	32	0	73	15	44	720	1588	1739	243	54	0	59	32	132	4290	113	4567
1961	148	152	4	51	45	885	1913	1645	1996	139	21	19	300	100	6439	179	7018
1962	44	27	114	27	36	157	1904	1252	1468	1	48	45	71	176	4781	94	5122
1963	7	21	72	14	38	310	1147	2219	855	116	168	21	28	124	4531	305	4988
1964	17	5	14	6	180	548	2358	2124	660	1	1	16	22	200	5690	18	5929
1965	58	43	40	47	91	43	2220	1032	337	66	25	0	101	178	3632	91	4002
1966	5	105	25	3	163	743	1415	1079	860	39	11	1	110	190	4097	51	4449
1967	0	11	583	6	17	663	2292	1719	908	52	23	334	11	606	5582	409	6608
1968	63	78	62	1	37	132	1767	1398	125	44	1	8	141	100	3422	53	3715
1969	26	35	35	24	58	253	1552	1083	766	7	49	7	61	117	3654	62	3895
1970	91	161	33	5	70	1007	1285	2623	1500	88	5	0	252	108	6415	93	6868
1971	24	40	3	18	253	1131	1812	1560	956	51	5	0	64	274	5458	56	5852
1972	24	55	14	33	16	578	933	1492	104	11	39	14	79	62	3106	64	3313
1973	43	35	12	1	153	505	1817	2757	1243	67	4	56	78	166	6322	127	6693
1974	2	5	3	6	231	273	1539	835	354	333	0	66	7	240	3001	398	3646
1975	43	35	33	3	30	958	1670	2249	1913	555	0	4	78	66	6790	559	7493
1976	91	84	37	22	98	1009	1930	2374	1043	9	312	0	175	157	6356	321	7009
1977	137	15	4	86	205	1175	2742	1287	1150	26	27	23	152	295	6354	76	6877
1978	4	119	135	34	2	1176	2319	1869	412	46	172	45	122	171	5776	263	6333
1979	76	268	80	27	227	728	1343	2413	263	100	556	36	343	334	4747	692	6116
1980	30	16	79	11	59	1290	2191	1022	288	49	26	167	46	149	4791	242	5228
1981	102	38	132	2	79	482	2225	1396	633	114	499	3	140	213	4736	616	5705
1982	134	52	199	269	509	216	1445	1605	102	79	468	62	185	977	3368	609	5140
1983	105	33	36	418	293	842	2344	2127	797	278	0	9	138	747	6110	287	7282
1984	5	78	14	21	4	403	1580	1951	945	8	1	3	83	39	4879	12	5013
1985	12	1	15	98	83	185	1597	1406	223	618	0	78	13	196	3410	696	4316
1986	16	132	37	20	197	816	1455	1002	136	46	11	18	148	254	3409	75	3886
1987	68	50	53	14	310	409	441	1031	90	54	28	100	118	377	1971	182	2648
1988	23	36	95	42	16	448	2869	1579	1356	61	2	34	58	153	6251	97	6561
1989	120	4	51	3	6	700	1632	1869	364	14	18	30	124	60	4564	62	4811
1990	2	270	38	13	193	435	1850	2664	1120	91	38	57	272	244	6069	186	6771
1991	2	58	19	89	24	328	1541	1100	253	2	9	45	60	131	3222	56	3470

1992	100	67	31	3	70	410	2043	1595	1131	139	43	1	167	104	5178	183	5633
1993	20	56	50	40	43	689	2645	401	911	98	39	0	76	133	4646	137	4992
1994	160	26	7	109	40	1035	2725	1959	1303	1	2	3	186	156	7022	6	7369
1995	213	92	52	57	12	250	2352	1741	695	105	2	11	305	120	5038	118	5582
1996	69	98	39	26	121	1469	1652	1754	733	162	0	0	167	186	5608	162	6123
1997	45	11	48	135	204	1336	1292	2032	840	475	87	114	56	386	5500	676	6619
1998	4	97	96	92	18	808	1735	1168	1376	891	20	0	100	205	5087	911	6305
1999	96	50	4	0	427	637	1357	709	460	422	0	1	146	431	3163	423	4163
2000	42	56	18	16	183	339	2324	796	171	11	5	6	97	216	3630	22	3967
2001	32	8	15	91	298	1202	2210	1193	100	104	2	288	40	404	4705	393	5543
2002	18	74	20	16	139	1041	220	1019	517	12	11	44	92	175	2797	67	3131
2003	45	241	20	10	19	765	2921	1456	535	7	3	22	286	49	5677	32	6044
2004	70	4	0	38	176	602	963	2526	220	256	1	6	74	214	4311	263	4862
2005	50	111	73	69	128	983	1668	715	1588	8	2	0	161	270	4954	10	5395
2006	8	1	151	4	122	724	2262	2698	695	55	13	19	9	277	6379	87	6752
2007	8	318	187	23	79	738	1995	2120	1005	1	17	17	326	289	5858	35	6508
2008	19	5	9	74	254	985	1354	1856	1002	41	21	63	24	337	5197	125	5682
2009	32	26	42	33	72	378	2263	1012	414	105	46	4	58	147	4066	155	4427
2010	24	37	2	9	17	522	2373	2500	1613	51	509	67	61	28	7008	627	7724
2011	3	100	17	28	89	635	1509	2567	1614	10	2	1	103	134	6325	13	6574
2012	48	3	1	98	85	180	997	2083	1674	29	16	18	51	184	4934	63	5232
2013	78	230	44	106	43	1121	2387	2031	1467	250	12	10	308	193	7006	272	7779
2014	140	70	77	75	137	191	1606	1285	1253	28	6	26	210	289	4335	60	4894
2015	70	36	384	180	82	864	2523	716	516	27	3	3	106	646	4619	33	5404
2016	7	13	76	2	83	427	1772	2382	377	280	0	1	20	161	4958	281	5420

 Values are up to 1 decimal

MEAN	68	71	56	39	107	639	1876	1576	831	121	44	41	140	203	4924	207	5476
P-Ann	12	13	10	7	19	116	342	287	151	22	8	7	25	37	899	37	1000
SD	64	81	79	57	111	379	669	714	593	198	96	61	100	157	1287	224	1363
CV	9421137	1398	1441	1041	592	356	453	714	1633	21731494	716	773	261	1083	249		

Table 3: WEST CENTRAL INDIA RAINFALL (1871-2016) 9 SUBDIVISIONS, AREA 962694 SQ.KM.
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	303	47	14	63	244	2422	2642	1404	2020	172	101	19	350	321	8488	292	9451
1872	14	44	45	206	40	2016	3355	2537	2098	488	13	230	58	291	10006	731	11086
1873	44	93	72	58	314	1067	2670	2262	2323	187	83	91	137	444	8322	361	9264
1874	41	42	33	50	252	2649	3823	2743	2248	361	35	11	82	335	11462	406	12287
1875	22	63	22	78	142	2447	4005	2056	2176	486	14	60	85	242	10684	560	11571
1876	1	3	82	18	82	1035	3564	2073	1761	77	9	0	4	182	8433	85	8705
1877	373	160	155	436	337	1898	1597	1885	1262	963	79	295	533	928	6642	1337	9440
1878	72	84	38	253	276	1086	3336	3811	2195	790	162	15	156	567	10428	967	12117
1879	2	84	4	26	619	2046	1986	3904	1347	806	124	2	85	649	9283	932	10950
1880	0	26	29	43	112	1894	2949	1336	2525	743	295	20	26	184	8704	1058	9972
1881	1	18	276	89	146	1806	3219	2634	1438	366	289	10	19	511	9097	665	10292
1882	39	8	14	88	217	2920	4026	1592	2064	272	441	9	47	319	10602	722	11690
1883	89	0	120	30	171	2437	2909	2232	2696	872	123	0	89	321	10274	995	11679
1884	122	64	24	68	63	1623	4210	2898	2982	587	7	413	186	155	11713	1007	13061
1885	59	80	88	160	391	2249	3150	2295	1209	784	214	645	139	639	8903	1643	11324
1886	20	7	100	27	378	2182	3313	1981	863	1649	89	239	27	505	8339	1976	10847
1887	162	0	8	96	152	1977	4015	2972	1909	886	329	45	162	256	10873	1260	12551
1888	261	107	40	48	164	1450	3251	2714	1226	197	438	10	368	252	8641	645	9906
1889	10	53	24	162	142	1936	3041	3338	1765	1016	19	3	63	328	10080	1038	11509
1890	0	1	70	144	51	2301	3191	2373	2028	255	459	180	1	265	9893	894	11053
1891	80	102	189	127	156	510	3326	2504	3405	434	12	1	182	471	9745	447	10846
1892	39	87	1	106	149	1834	3673	3330	2842	1121	69	23	126	256	11678	1213	13274
1893	255	160	657	55	586	2514	2102	3200	2399	910	439	2	415	1297	10215	1350	13278
1894	60	93	67	67	60	2240	3473	2398	2604	1145	242	88	153	194	10715	1475	12537
1895	70	120	89	183	78	2402	2459	2472	1632	643	74	22	190	350	8965	739	10244
1896	2	0	11	53	76	2289	3682	3303	390	49	275	120	2	140	9664	444	10250
1897	144	73	47	198	140	1275	2944	3148	2002	712	11	0	217	385	9369	722	10693
1898	0	318	23	122	92	1810	3861	2447	1895	322	131	24	318	237	10013	477	11045
1899	5	38	13	276	199	1849	1257	1405	813	78	0	1	43	488	5323	79	5933
1900	123	30	31	130	98	1107	2978	3155	2571	247	27	79	153	259	9811	353	10575
1901	255	342	156	269	205	1204	2714	3412	1153	387	33	6	597	630	8483	426	10136
1902	54	30	4	107	91	728	3021	1967	2117	442	283	284	84	202	7833	1009	9128
1903	48	19	1	35	475	1091	3555	3000	2058	1217	111	39	67	511	9704	1367	11649
1904	11	60	177	40	256	1926	2391	1838	1601	688	7	38	71	473	7756	733	9033
1905	102	76	98	150	164	748	2588	1919	2110	311	25	2	178	411	7365	338	8293
1906	134	175	169	6	80	2205	3406	2344	1870	258	80	178	309	255	9825	516	10905
1907	35	307	77	470	28	1522	2501	3345	843	22	66	39	342	575	8211	127	9255
1908	80	144	76	49	83	1313	3448	3361	1956	99	5	20	224	208	10077	124	10634
1909	59	50	37	405	175	1992	3422	1924	1460	110	13	261	109	617	8798	384	9908
1910	22	0	14	44	123	2295	2201	2951	2821	674	447	0	22	181	10268	1121	11592
1911	86	1	74	28	88	1875	1823	2705	1678	479	354	29	87	190	8081	862	9220
1912	23	291	1	110	102	737	3502	2782	1127	276	424	10	314	213	8148	710	9385
1913	8	280	72	73	318	2123	3010	1886	1069	282	27	138	288	463	8088	447	9286
1914	0	39	147	189	285	1871	3841	2591	2069	120	123	74	39	621	10372	317	11349
1915	192	187	390	177	181	1830	2628	2346	2019	1038	157	72	379	748	8823	1267	11217
1916	6	114	3	50	307	2273	2862	3070	2322	1437	591	0	120	360	10527	2027	13034
1917	28	432	165	77	429	2302	2638	3025	2825	1248	170	8	460	671	10790	1426	13347
1918	61	24	40	59	826	1817	1399	2140	932	50	223	103	85	925	6288	376	7673
1919	468	197	140	90	285	2329	2916	3434	1446	728	352	36	665	515	10125	1116	12421
1920	230	10	67	128	190	1040	2943	1565	1064	131	3	0	240	385	6612	134	7371
1921	183	8	3	90	13	2128	2676	2131	1895	291	156	4	190	106	8830	451	9578
1922	354	53	0	93	145	1708	3196	1691	2007	254	653	32	407	238	8602	939	10186
1923	22	109	242	84	95	443	4039	2816	2214	243	12	32	131	421	9512	287	10351
1924	169	29	45	124	76	785	2950	2527	2283	684	343	79	198	245	8545	1106	10094
1925	0	0	17	99	550	1879	3242	2479	1159	551	407	38	0	666	8759	996	10421
1926	379	35	268	228	313	539	2842	3860	2151	416	21	10	414	808	9392	446	11062
1927	27	124	134	47	113	1866	3393	2186	1332	619	721	51	151	293	8777	1391	10613

1928	24	279	99	62	68	1696	3180	2005	1723	872	5	232	303	228	8604	1109	10245
1929	87	260	10	190	70	1825	3051	2169	1682	502	22	189	347	270	8727	713	10057
1930	12	26	34	216	132	1868	3079	1777	2014	653	336	38	38	382	8738	1027	10185
1931	42	109	74	75	136	1139	3286	3244	2189	1611	457	79	151	285	9858	2147	12441
1932	0	142	83	110	155	1110	4165	2021	2238	689	292	17	142	348	9534	998	11021
1933	75	261	100	197	749	2257	2855	3026	2700	701	192	165	336	1046	10838	1058	13277
1934	56	0	34	133	21	1991	2967	3428	2558	306	425	31	56	188	10944	762	11950
1935	98	62	4	245	29	1540	3808	2085	1953	472	23	50	160	278	9386	545	10369
1936	78	344	148	71	359	2701	2449	2516	1965	499	803	42	422	578	9631	1344	11975
1937	1	303	190	638	62	1714	4098	1920	1907	874	8	64	304	890	9639	946	11779
1938	91	130	144	79	349	2922	3315	2631	1898	1135	47	4	221	572	10766	1186	12745
1939	65	72	216	100	10	1256	3157	3203	1350	511	90	5	137	326	8966	606	10035
1940	27	80	85	169	341	1989	3801	3132	895	719	172	126	107	595	9817	1017	11535
1941	199	154	90	52	116	1233	2122	2060	1402	304	12	7	353	258	6817	323	7751
1942	133	365	17	151	77	1975	4167	3055	1560	126	12	204	498	245	10757	342	11842
1943	476	28	14	127	482	1686	3132	1888	2562	1017	64	0	503	623	9268	1081	11476
1944	111	309	597	70	114	1232	4369	3200	1636	1016	108	12	420	781	10437	1136	12773
1945	170	17	0	294	55	1845	3617	2558	2270	461	49	5	187	349	10290	515	11341
1946	0	146	14	214	209	2454	3265	3218	1358	245	1004	105	146	436	10295	1354	12232
1947	219	147	99	121	102	998	3624	3724	2521	349	44	160	366	322	10867	553	12108
1948	289	53	48	125	88	1685	3280	2965	2350	395	1018	1	342	261	10280	1414	12297
1949	6	37	19	73	489	1384	3070	2261	3182	1008	27	1	43	581	9897	1036	11557
1950	30	189	214	26	137	939	3566	2120	2153	312	81	80	219	377	8778	473	9847
1951	51	29	303	197	230	1414	2957	2437	1321	804	66	0	80	730	8129	870	9809
1952	3	121	63	123	270	1463	3065	2497	1142	470	0	42	124	456	8167	512	9259
1953	116	19	1	185	26	1498	3189	2980	1795	920	0	0	135	212	9462	920	10729
1954	51	43	93	92	97	1238	3429	2485	3175	241	1	44	94	282	10327	286	10989
1955	178	10	34	102	243	2241	2297	3806	2524	1476	50	0	188	379	10868	1526	12961
1956	44	53	25	64	694	1988	4200	2681	1856	998	482	60	97	783	10725	1540	13145
1957	81	39	363	231	250	1338	2829	3365	1078	579	88	3	120	844	8610	670	10244
1958	42	97	121	174	229	1192	3853	3252	2000	835	252	1	139	524	10297	1088	12047
1959	164	37	2	123	259	1723	3689	3151	2743	872	104	6	201	384	11306	982	12873
1960	196	0	267	81	314	1706	2812	2747	1479	704	75	11	196	662	8744	790	10392
1961	114	116	34	101	480	1796	4183	3047	3090	1326	84	62	230	615	12116	1472	14433
1962	43	100	122	285	308	816	3033	2394	2488	344	196	515	143	715	8731	1055	10643
1963	27	78	97	209	200	1665	2677	3685	1542	781	88	5	105	506	9569	874	11054
1964	0	47	42	68	56	1721	2889	3175	2292	601	90	10	47	166	10077	701	10991
1965	82	23	91	147	86	1096	3022	1788	1617	101	23	123	105	324	7523	247	8199
1966	150	10	48	74	337	1209	2921	1907	1472	163	454	165	160	459	7509	782	8910
1967	14	1	496	122	87	1626	3423	2688	1810	237	11	670	15	705	9547	918	11184
1968	151	149	227	158	66	1073	3084	1890	1806	488	79	29	300	451	7853	596	9200
1969	46	12	18	83	280	1081	3756	2795	2274	240	368	37	58	381	9906	645	10990
1970	169	97	156	108	303	2594	2348	3746	2126	333	0	0	266	567	10814	333	11980
1971	108	68	85	149	463	2506	2545	2466	1642	893	2	1	176	697	9159	896	10927
1972	1	60	3	84	101	1224	1873	2597	1145	246	334	19	61	188	6839	599	7687
1973	8	133	8	41	73	1082	3694	3721	1903	1281	38	32	141	122	10400	1351	12014
1974	3	43	37	78	376	1019	2391	2827	1126	1345	55	4	46	491	7363	1404	9304
1975	70	98	109	27	154	1848	3212	3048	2533	1306	44	0	168	290	10641	1350	12449
1976	43	15	40	154	132	1413	3494	2969	1388	45	445	14	58	326	9264	504	10152
1977	20	40	79	189	317	2190	3033	2896	1479	549	686	43	60	585	9598	1278	11521
1978	110	258	153	175	247	2117	3061	3371	1400	360	269	209	368	575	9949	838	11730
1979	230	284	50	44	287	1570	2094	2239	1546	200	771	36	514	381	7449	1007	9351
1980	36	16	49	146	61	2501	2468	3522	1384	98	43	212	52	256	9875	353	10536
1981	137	7	171	79	215	1526	2745	2593	2522	413	105	87	144	465	9386	605	10600
1982	311	80	114	119	325	1178	2682	3075	1409	486	353	5	391	558	8344	843	10137
1983	25	63	11	63	223	1408	2881	3611	3240	795	24	73	88	297	11140	892	12417
1984	223	176	34	165	38	1316	2566	3118	1110	660	17	19	399	236	8110	696	9442
1985	178	34	25	120	149	1501	2776	2409	1349	1091	37	11	211	294	8035	1139	9679
1986	141	407	69	119	138	2173	2710	2610	827	242	173	204	548	326	8320	619	9813
1987	170	138	101	30	261	1113	2327	2813	1133	1002	481	168	308	392	7386	1650	9737
1988	26	93	42	172	93	1626	3433	2722	2526	390	26	61	119	307	10307	476	11210
1989	9	0	266	37	105	2030	2782	2630	1584	147	21	141	9	408	9026	309	9752
1990	19	110	56	35	978	2292	2556	3608	2193	1014	82	94	129	1069	10649	1190	13037
1991	63	61	73	150	171	2057	3174	2412	705	214	120	36	124	394	8348	370	9236

1992	3	3	6	48	199	1291	2480	3620	1442	429	172	0	6	253	8833	601	9693
1993	15	64	150	59	166	1406	3197	2064	2404	912	37	141	79	375	9071	1089	10614
1994	106	77	5	185	132	2430	4192	3056	1489	771	125	1	183	322	11167	897	12569
1995	364	39	297	75	231	1102	3336	2233	1517	1167	42	60	403	603	8188	1269	10462
1996	103	99	34	117	59	1201	3025	3089	1672	875	55	3	202	210	8987	933	10332
1997	103	0	56	280	131	1339	2821	2651	1507	628	631	711	103	466	8318	1970	10857
1998	144	66	135	93	161	1494	2662	2691	2488	954	349	3	210	389	9335	1306	11240
1999	13	189	1	14	450	1775	2519	2212	2600	985	17	2	201	465	9106	1003	10777
2000	9	127	7	55	594	2113	3110	2395	832	258	17	9	136	656	8450	284	9526
2001	72	9	82	161	192	2351	2733	2327	1035	1053	47	9	80	435	8446	1109	10071
2002	89	127	135	64	161	2048	892	3177	1179	480	52	5	215	360	7296	537	8409
2003	17	214	97	83	40	1471	3104	2664	2191	565	35	75	231	220	9430	675	10556
2004	205	28	23	139	363	1635	2276	2711	1225	486	81	0	233	525	7847	567	9172
2005	312	81	123	161	136	1591	3873	2143	2290	750	6	28	393	420	9897	784	11494
2006	0	0	435	158	600	1418	3157	3617	2036	414	246	8	0	1193	10228	668	12089
2007	2	100	52	84	154	2170	2710	2516	2205	155	91	183	102	290	9601	429	10422
2008	29	73	348	89	95	1835	2248	2707	2030	338	83	16	102	532	8820	436	9891
2009	52	0	51	35	132	805	2753	1804	1536	882	617	120	52	218	6897	1619	8787
2010	77	43	25	58	110	1373	3505	2858	1995	591	433	93	120	193	9731	1117	11161
2011	2	82	14	238	146	1976	3106	3019	1974	307	3	0	84	398	10075	310	10867
2012	195	14	1	130	55	1011	3346	2869	1761	480	163	16	209	186	8987	659	10040
2013	28	241	72	167	103	2693	4324	2889	1396	1198	33	12	269	342	11302	1243	13156
2014	122	320	340	114	259	737	3104	2205	1789	406	124	90	442	713	7835	620	9610
2015	218	37	480	307	166	2187	2152	1999	1442	265	48	8	255	952	7780	321	9309
2016	54	17	130	32	231	1705	4043	2650	2317	531	5	2	71	393	10715	538	11716

 Values are up to 1 decimal

MEAN	94	95	100	124	212	1689	3064	2670	1852	593	177	73	189	437	9276	843	10746
P-Ann	8	8	9	11	19	157	285	248	172	55	16	6	17	40	863	78	1000
SD	100	96	117	91	168	534	627	581	588	369	211	120	141	222	1232	427	1407
CV	1068	1009	1173	731	790	316	204	217	317	622	1193	1648	746	508	132	506	130

Table 4: NORTHEAST INDIA RAINFAL (1871-2016) 4 SUBDIVISIONS, AREA 267444 SQ.KM.
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	11	233	688	1511	2343	3380	4032	3782	2896	1343	136	16	244	4542	14090	1495	20371
1872	98	214	435	1089	2202	3215	4324	3229	3907	1976	38	37	312	3725	14675	2051	20764
1873	75	182	713	1292	1317	3357	3411	3101	1789	399	62	67	257	3322	11658	528	15764
1874	352	761	646	1150	2602	3379	4148	2892	3750	2389	196		21113	4398	14168	2587	22267
1875	403	118	979	1456	2461	4835	3960	4997	1965	599	63	68	521	4896	15757	730	21904
1876	63	156	881	889	2488	4457	3879	3725	2401	1515	424	58	219	4258	14462	1997	20936
1877	381	418	903	1046	2643	2436	4244	3476	3492	758	123	164	798	4592	13648	1045	20084
1878	119	308	594	1297	2352	3580	4015	4934	4285	1362	486	81	426	4243	16814	1929	23413
1879	38	197	149	532	2692	4531	4173	3714	3623	1340	10	143	235	3373	16041	1493	21142
1880	273	604	1404	1220	2104	5341	3646	4154	2482	1515	90	150	877	4728	15622	1755	22983
1881	14	91	995	1632	2876	3596	3777	4006	3719	1077	165	42	105	5503	15098	1284	21990
1882	91	602	819	1024	2270	3675	2889	3971	2803	2855	378	52	693	4113	13338	3285	21429
1883	192	104	618	1065	3352	3495	3529	4394	2381	381	78	628	296	5035	13799	1087	20217
1884	89	286	631	1487	2440	3389	3045	3272	1990	1390	215	29	375	4558	11696	1634	18263
1885	81	305	639	1191	1693	3597	4181	3614	3822	937	266	140	386	3523	15214	1342	20466
1886	49	75	848	955	2118	3699	4857	4146	3795	1070	25	80	124	3921	16497	1175	21717
1887	479	37	1221	1118	2421	4567	2899	3277	2601	737	246	0	516	4760	13344	982	19602
1888	251	377	870	1887	2392	3246	4038	4085	2190	752	215	0	628	5149	13559	967	20303
1889	265	363	361	1117	2112	4547	3794	2744	3335	924	648	15	628	3590	14420	1587	20225
1890	170	23	824	1121	1678	4578	4466	3382	2577	1839	80	95	193	3623	15003	2014	20832
1891	58	419	794	1033	3155	2841	3832	3175	2240	434	401	2	477	4982	12088	837	18384
1892	57	300	498	2111	3142	3008	3783	3819	2294	1235	463	46	357	5751	12904	1744	20756
1893	266	636	839	1487	3375	4719	4579	3501	3118	1538	67	23	902	5701	15917	1628	24148
1894	23	401	1058	1220	2424	4000	3352	3890	3439	2238	791	129	423	4702	14681	3158	22965
1895	79	76	579	1605	2470	2761	4964	3365	2619	1080	168	259	155	4654	13709	1507	20025
1896	152	481	464	1329	2203	2715	3488	2707	2489	196	49	18	633	3995	11399	263	16291
1897	41	183	1060	617	2419	3453	3498	3839	3609	1847	244	7	224	4095	14399	2098	20817
1898	128	328	147	864	1563	4452	3389	4262	3052	1735	28	67	456	2574	15155	1830	20015
1899	225	337	679	1300	2582	4413	4728	3893	3373	1496	90	75	562	4561	16407	1661	23191
1900	69	424	829	1638	1995	3451	3894	2266	2982	657	50	61	493	4462	12593	767	18316
1901	245	272	196	1481	1298	3812	3313	3658	2830	1431	869	14	517	2975	13613	2314	19419
1902	29	47	595	2265	2041	4069	3871	3679	3634	956	86	46	76	4901	15253	1088	21318
1903	135	275	843	620	1305	4351	2752	4091	2864	1645	419	3	410	2768	14058	2067	19303
1904	49	431	399	2732	2466	3297	4044	3669	2280	930	465	27	480	5597	13290	1422	20789
1905	174	309	1462	1289	1988	3113	4380	5319	2703	1786	67	164	483	4738	15515	2017	22754
1906	156	779	787	1313	2048	3248	4116	4525	3158	1408	306	11	935	4148	15047	1725	21855
1907	253	305	1023	1574	1538	3816	3992	2591	2982	314	44	226	558	4135	13381	584	18658
1908	178	177	103	891	2173	3394	4455	2645	3045	832	193	0	355	3167	13539	1025	18086
1909	122	60	23	1586	1903	4720	2718	4626	2296	1493	309	235	182	3512	14360	2037	20091
1910	117	201	681	1202	1815	4247	4967	3316	2770	1725	96	20	318	3698	15300	1841	21157
1911	418	87	593	1409	2663	4071	3868	3268	2948	1834	126	8	505	4665	14155	1968	21293
1912	64	381	985	1958	1882	2971	4512	3448	2147	1472	746	37	445	4825	13078	2254	20603
1913	51	735	741	1563	2883	4751	4288	3287	2183	1796	188	245	786	5186	14509	2229	22711
1914	26	596	570	1854	2473	3021	3753	3954	2131	670	76	282	622	4897	12859	1028	19406
1915	85	363	781	1313	3971	3623	4481	4106	2368	1309	342	12	448	6065	14578	1662	22753
1916	81	157	305	1589	1846	3793	3486	3761	3181	2838	489	25	238	3740	14221	3351	21550
1917	24	651	291	1406	1627	4216	4084	2969	2870	2438	405	8	675	3324	14139	2850	20989
1918	35	60	762	1086	2337	5255	5085	4877	2712	500	64	19	95	4185	17929	583	22791
1919	218	149	186	1049	1894	3725	3665	2982	2917	1082	488	9	366	3129	13288	1579	18364
1920	29	372	1634	986	1677	3064	3126	3866	3313	1309	39	17	401	4297	13368	1364	19432
1921	328	124	1076	1783	2413	4004	4327	3893	2928	1437	70	52	451	5272	15152	1559	22435
1922	115	38	378	894	1445	4862	3410	4102	2600	1045	161	44	153	2717	14974	1250	19094
1923	1	660	234	1449	2277	4191	3452	3279	2577	1023	316	37	661	3960	13499	1376	19496
1924	56	217	96	1338	2136	3600	4647	3472	2830	1057	1254	5	273	3570	14549	2316	20707
1925	172	185	385	1608	3248	2795	3596	3357	2660	1418	148	3	357	5241	12408	1569	19575
1926	267	230	1259	1004	1964	3413	5032	3570	2381	1350	99	288	497	4227	14396	1737	20857
1927	345	681	452	1766	2074	3645	4054	3186	3942	1224	178		01026	4292	14827	1402	21547

1928	106	176	301	905	2676	3994	3785	3784	2419	2390	129	12	282	3882	13982	2531	20677
1929	546	86	661	1898	3128	4882	3774	3467	2483	1982	81	240	632	5686	14606	2303	23228
1930	141	338	695	1196	1625	4521	3437	3536	2568	936	1312	17	479	3516	14062	2264	20321
1931	38	410	404	1251	2393	4061	4914	2655	2770	1706	379	142	448	4048	14400	2227	21122
1932	93	335	440	1191	3159	3982	3787	3444	2506	771	1045	113	428	4790	13719	1929	20865
1933	119	255	150	1478	2171	3646	3647	4729	2222	1173	47	40	374	3799	14244	1260	19677
1934	100	690	180	1571	2559	5325	4143	2987	2361	1734	571	102	790	4310	14816	2407	22323
1935	57	356	370	811	1570	4465	3080	4787	2585	435	93	9	413	2751	14917	537	18618
1936	96	402	519	1258	3840	3708	4343	3417	2946	1547	142	92	498	5617	14414	1780	22310
1937	22	638	122	552	2768	3572	3281	4240	2637	1541	111	217	660	3441	13730	1869	19700
1938	219	184	664	1088	2967	4006	3716	4132	2871	1214	535	5	403	4719	14725	1754	21601
1939	39	298	194	977	2095	3982	4311	2986	3308	1789	135	23	337	3266	14587	1947	20137
1940	12	448	1496	372	2660	3459	3482	3539	3171	944	155	123	460	4528	13651	1222	19861
1941	291	291	290	1497	3511	4847	3754	3244	2452	1798	432	51	582	5298	14297	2281	22458
1942	41	182	650	1761	2573	4176	3143	3663	3865	830	591	0	223	4984	14847	1421	21475
1943	482	355	934	1597	2008	3757	3790	3743	3251	833	34	14	837	4539	14541	881	20797
1944	508	191	468	1062	2508	3365	3786	3662	3067	833	24	36	699	4038	13880	893	19510
1945	425	302	422	1090	2335	3920	3637	3713	2609	2254	68	102	727	3847	13879	2424	20877
1946	4	158	927	1923	2255	4028	4711	2793	2587	3480	139	119	162	5105	14118	3738	23123
1947	34	70	535	1376	2675	4431	4987	3359	3487	1985	25	242	104	4586	16264	2252	23206
1948	303	443	448	1691	4426	3706	4162	3660	3094	1890	821	28	746	6565	14622	2739	24672
1949	134	143	353	2628	3210	4172	3745	3762	3106	1342	79	64	277	6191	14785	1484	22737
1950	74	359	516	582	2058	5090	3500	4317	2083	1503	828	23	433	3156	14990	2354	20933
1951	21	5	440	1396	1853	4803	4885	3357	1841	2294	393	26	26	3689	14886	2713	21314
1952	36	49	683	1529	3217	3327	4842	3534	3043	2805	388	6	85	5429	14746	3199	23459
1953	225	185	1016	891	2718	3938	4169	3315	3936	968	258	45	410	4625	15357	1271	21664
1954	120	438	179	1010	2445	4153	3805	3734	2367	1695	5	205	558	3634	14058	1905	20156
1955	68	58	847	1359	2134	3746	4972	3355	2308	1412	1165	52	126	4340	14381	2629	21475
1956	188	107	965	1097	3649	5741	3718	4057	2531	1594	395	94	295	5711	16047	2083	24135
1957	628	309	169	798	2156	3662	3357	3049	2549	883	63	37	937	3123	12617	983	17660
1958	135	341	126	1230	3271	2787	3152	3757	2894	1367	50	71	476	4627	12590	1488	19180
1959	368	399	853	794	2443	3338	3090	2973	2889	3572	45	6	767	4090	12290	3623	20770
1960	2	60	394	279	2297	3273	4779	3316	3934	969	289	20	62	2970	15302	1278	19612
1961	103	373	1570	750	2467	3632	3142	3100	2726	1119	232	28	476	4787	12600	1379	19242
1962	162	239	112	1232	2064	4086	2939	3771	1662	1271	20	16	401	3408	12457	1307	17574
1963	22	44	436	1305	2248	4379	4049	3660	2345	1741	177	28	66	3989	14433	1946	20434
1964	56	182	494	1820	2143	3624	4841	2691	2999	2057	192	53	238	4457	14155	2302	21152
1965	21	551	544	835	1906	4215	3795	3654	2506	979	308	159	572	3285	14170	1445	19473
1966	235	60	162	822	2170	5012	3742	4010	2636	1529	387	245	295	3154	15400	2161	21010
1967	301	252	982	1158	1787	2921	3694	2823	3277	1061	96	16	553	3927	12715	1173	18368
1968	147	203	560	971	2104	4417	5155	3949	1871	1339	298	9	350	3635	15392	1645	21022
1969	113	17	688	1385	1740	3937	3773	3889	2095	815	270	21	130	3813	13694	1106	18743
1970	400	350	577	1145	1957	4293	4416	3034	3173	2351	474	13	750	3679	14916	2838	22183
1971	159	155	251	1913	2017	3599	3840	3938	2358	2046	783	27	314	4181	13735	2856	21085
1972	65	309	404	1261	1896	3552	3294	3174	2052	661	70	12	374	3561	12072	742	16749
1973	90	486	399	1473	2746	4635	2973	3174	3335	1718	840	654	576	4618	14117	3212	22522
1974	160	27	821	1387	2162	3669	6463	3949	2872	1782	281	15	187	4370	16953	2078	23588
1975	75	211	180	1050	2128	2611	4647	2719	2795	1589	493	8	286	3358	12772	2090	18506
1976	67	373	855	1446	1695	4281	4328	3186	1729	547	164	46	440	3996	13524	757	18717
1977	85	202	377	2821	2616	3929	4222	3824	1873	1436	451	286	287	5814	13848	2173	22122
1978	18	102	403	919	2265	3590	3272	2942	3505	923	340	19	120	3587	13309	1282	18298
1979	66	149	449	713	1104	2627	4768	2514	3559	1280	236	356	215	2266	13468	1872	17821
1980	74	306	837	1111	2664	3158	3892	2997	2095	1892	2	12	380	4612	12142	1905	19039
1981	266	351	772	1642	2702	2392	4602	3109	2148	328	53	389	617	5116	12251	770	18754
1982	15	377	519	1959	1146	3359	3264	3357	2249	416	355	66	392	3624	12229	837	17082
1983	175	369	973	1597	2038	2794	4064	3404	3021	1991	121	275	544	4608	13282	2387	20822
1984	138	42	95	1078	2682	4152	4238	3289	3160	1201	37	143	180	3855	14839	1380	20255
1985	58	292	696	1221	2264	3860	3936	2752	2540	752	102	82	350	4181	13088	935	18554
1986	77	115	204	1950	1604	2802	3394	2914	3337	2448	775	83	192	3758	12447	3305	19703
1987	63	205	789	1440	1335	3249	4647	4108	3903	765	339	59	268	3564	15907	1163	20902
1988	49	281	723	965	3264	3606	4990	5099	2731	1878	1363	95	330	4952	16426	3336	25044
1989	68	323	251	1206	2180	3479	5594	2763	3605	2313	121	94	391	3637	15441	2528	21997
1990	43	467	984	2139	2297	3554	3900	2566	3107	1758	367	62	510	5420	13127	2187	21244
1991	165	196	539	1263	3396	4049	4416	3331	3901	2150	155	607	361	5198	15697	2912	24168

1992	107	444	330	761	2207	3272	4319	2902	2659	1264	107	112	551	3298	13152	1483	18484
1993	320	862	682	1468	2741	4749	4861	4154	3394	1113	178	101	182	4891	17158	1301	24532
1994	188	494	1235	1493	1939	3814	2985	3433	1733	1192	132	96	682	4667	11965	1420	18734
1995	121	347	304	786	2399	3672	3810	3856	3587	927	1133	43	468	3489	14925	2103	20985
1996	134	237	941	736	2849	3081	3887	3863	2240	2000	58	1	371	4526	13071	2059	20027
1997	162	305	749	1256	1845	3689	4822	3157	3231	330	151	330	467	3850	14899	811	20027
1998	236	341	1345	1374	2078	3162	4348	4139	2386	1639	499	0	577	4797	14035	2138	21546
1999	8	1	237	618	3259	3342	4814	4025	2899	2183	88	16	9	4114	15080	2287	21490
2000	160	201	595	1718	3157	3991	2928	3811	3168	1269	104	4	361	5470	13898	1377	21105
2001	28	458	266	1091	2491	4110	3403	2521	2621	2255	244	11	486	3848	12655	2510	19499
2002	254	47	580	1839	2179	3816	4748	3126	2462	722	638	27	301	4598	14152	1387	20438
2003	51	310	687	1237	1672	4284	3770	2592	2184	2333	70	241	361	3595	12830	2644	19431
2004	92	97	318	2478	2320	3472	4951	2738	2519	2685	57	31	189	5116	13680	2773	21758
2005	179	270	1199	1178	2043	2614	3444	3768	2094	2529	73	58	449	4420	11920	2659	19449
2006	2	276	122	1128	2716	3121	3465	2494	2743	785	215	65	278	3966	11823	1065	17132
2007	9	751	333	1916	1808	3542	5533	3279	3786	1412	563	25	760	4057	16140	2000	22957
2008	476	123	726	1056	1972	3934	3920	3671	2253	1208	29	1	599	3754	13778	1238	19369
2009	38	81	360	710	2174	2334	3543	3948	2179	1410	138	18	119	3244	12003	1566	16933
2010	24	66	680	2086	2819	3926	3081	3028	2672	1317	100	227	90	5585	12707	1644	20025
2011	79	84	632	867	2238	3702	3027	3394	2454	407	77	26	163	3737	12577	510	16987
2012	186	70	226	1450	1278	4192	3786	2397	2848	1306	316	68	256	2954	13223	1690	18123
2013	8	116	307	1103	3392	2810	3212	3316	2571	1930	9	8	124	4802	11909	1947	18782
2014	12	309	250	367	2312	3058	2875	3783	3041	438	22	2	321	2929	12757	462	16469
2015	137	129	309	2014	2085	3826	3702	4104	2387	593	82	90	266	4408	14019	765	19458
2016	142	275	530	1845	2408	2936	3700	2655	2601	1054	396	28	417	4783	11892	1478	18570

 Values are up to 1 decimal

MEAN	141	280	602	1308	2341	3777	3967	3527	2800	1403	277	84	422	4251	14072	1764	20512
P-Ann	6	13	29	63	114	184	193	171	136	68	13	4	20	207	686	86	1000
SD	127	185	338	453	577	656	655	586	562	642	284	115	227	817	1270	719	1844
CV	900	661	562	346	246	173	165	166	200	458	102	137	538	192	90	407	89

Table 5: CENTRAL NORTHEAST INDIA RAINFALL(1871-2016) 5 SUBDIVISIONS, AREA 573006 SQ.KM. Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	46	170	121	547	694	2223	3871	2856	2980	128	1	156	216	1362	11930	285	13793
1872	255	149	44	103	249	2340	3210	2885	1958	984	174	26	404	396	10393	1184	12377
1873	54	11	269	112	262	609	3843	2580	1714	462	33	85	65	643	8746	580	10034
1874	151	282	117	51	234	2722	3186	3362	2323	1097	185	5	433	401	11593	1287	13715
1875	225	153	9	120	519	1594	3344	2958	2413	515	0	12	378	648	10309	527	11862
1876	10	5	80	161	324	960	3222	2396	2391	1044	0	0	15	565	8969	1044	10593
1877	483	443	253	306	672	1054	1989	1871	1230	856	16	288	926	1231	6144	1160	9460
1878	257	80	114	284	773	735	2549	3045	2058	524	252	132	337	1171	8387	908	10802
1879	8	114	39	7	526	1521	3666	3651	2622	987	45	71	122	572	11460	1103	13256
1880	25	365	18	88	584	1810	3418	2679	1719	761	287	46	390	690	9626	1094	11799
1881	9	31	462	71	467	2069	3237	3377	1306	837	51	11	40	1000	9989	898	11927
1882	36	113	15	157	621	1812	3078	2983	1447	814	262	23	149	793	9320	1099	11361
1883	415	47	256	69	305	2589	3294	1775	1685	263	133	88	462	630	9343	483	10919
1884	7	79	26	103	287	1784	2603	3016	2691	934	14	36	86	416	10094	984	11580
1885	152	205	101	64	470	2006	3214	3492	1699	275	144	508	357	635	10411	927	12330
1886	72	9	381	34	650	1940	3340	3033	2445	1390	184	175	80	1065	10758	1749	13652
1887	289	0	80	111	920	1474	3124	3375	1736	650	67	4	289	1111	9709	721	11830
1888	275	147	80	103	353	733	3808	4265	1985	136	249	1	422	536	10791	386	12135
1889	260	258	34	57	287	2309	3520	3232	1886	863	587	4	518	378	10947	1454	13297
1890	15	7	196	80	389	2881	4386	2839	2287	702	123	47	22	665	12392	872	13952
1891	190	113	719	46	730	772	2053	4016	2881	389	222	0	303	1495	9722	611	12131
1892	38	166	4	49	223	1704	3604	3465	1661	529	89	21	204	276	10434	639	11553
1893	321	533	388	193	1255	2185	3472	2529	3258	1102	124	1	853	1836	11443	1227	15360
1894	125	231	49	140	84	2287	3613	3676	2120	1944	477	119	356	273	11696	2539	14865
1895	210	108	60	265	335	2685	3200	2999	1541	414	37	25	318	660	10425	476	11878
1896	12	22	50	19	321	2296	3090	3220	1026	0	93	91	34	390	9632	184	10239
1897	116	187	356	184	242	1703	3033	3498	1914	1211	129	3	303	782	10147	1343	12576
1898	8	407	13	128	363	1540	2989	3588	2764	506	28	55	415	504	10881	589	12389
1899	158	50	11	490	511	2519	4120	2308	964	440	0	1	208	1012	9911	441	11572
1900	416	78	64	237	431	1537	2633	3076	3134	636	0	191	493	732	10380	827	12432
1901	573	466	96	162	404	439	2423	3506	1799	271	313	191	1039	662	8167	603	10471
1902	39	24	103	308	414	688	3943	2370	2463	199	35	78	63	825	9464	312	10664
1903	143	74	38	150	360	1142	2047	3123	2165	2286	90	29	217	548	8477	2405	11647
1904	46	73	203	50	724	2356	3707	3345	1235	584	94	132	119	977	10643	810	12549
1905	246	277	401	217	524	414	3155	3005	2606	127	1	16	523	1142	9180	144	10988
1906	164	764	249	3	269	1863	3304	2950	1861	485	38	108	928	521	9978	631	12058
1907	34	551	440	385	216	1679	2031	3640	1216	83	45	110	585	1041	8566	238	10430
1908	222	194	54	20	271	1291	2931	3697	1251	250	2	4	416	345	9170	256	10187
1909	119	70	11	833	173	2748	3683	2502	1894	225	5	280	189	1017	10827	510	12542
1910	96	36	22	164	366	1908	2789	3614	2367	1341	144	1	132	552	10677	1486	12847
1911	237	8	319	74	245	2487	1193	3377	3149	808	364	6	245	638	10206	1178	12267
1912	107	212	129	196	298	883	3273	3335	1640	271	431	2	319	623	9131	703	10777
1913	10	571	252	30	757	2511	2788	2945	1354	591	134	129	581	1039	9598	854	12072
1914	4	185	188	252	1004	1274	3725	3235	1814	116	13	28	189	1444	10048	157	11838
1915	126	434	334	89	495	1178	2609	3208	2656	736	509	10	560	918	9651	1255	12384
1916	0	147	1	165	250	2423	3053	3305	2203	1435	211	0	147	416	10984	1646	13193
1917	41	409	144	101	685	2112	3135	2671	2824	1830	45	19	450	930	10742	1894	14016
1918	57	1	108	150	633	2468	1498	3228	1527	37	27	12	57	891	8721	76	9746
1919	615	173	136	139	356	1950	3411	3460	1845	679	296	53	788	631	10666	1028	13113
1920	9	164	334	82	312	1221	4991	2135	1550	145	0	0	173	728	9897	145	10943
1921	427	36	30	130	82	1769	2736	3798	2675	390	54	4	463	242	10978	448	12131
1922	234	37	0	72	162	2137	4199	3708	2875	250	93	95	271	234	12918	438	13862
1923	14	536	38	63	270	901	2760	3626	2051	774	312	116	550	371	9338	1202	11461
1924	190	115	19	50	287	791	3802	2700	2897	610	763	70	305	356	10190	1443	12294
1925	55	12	45	298	535	2145	4230	2981	1849	689	88	28	67	878	11205	805	12955
1926	210	54	614	206	392	381	3546	3819	2303	397	13	53	264	1212	10049	463	11988
1927	105	398	205	40	397	1355	3388	3311	1510	770	407	32	503	642	9564	1209	11917

1928	282	447	25	286	323	1665	3721	1795	1231	1400	32	87	729	634	8412	1519	11293
1929	382	91	85	147	175	1523	3699	3582	1053	1484	1	399	473	407	9857	1884	12621
1930	94	142	64	146	171	1157	3891	2669	2401	353	678	81	235	381	10117	1112	11847
1931	26	445	120	52	184	691	3106	3148	2947	1342	199	5	471	356	9892	1545	12264
1932	0	182	71	103	331	844	2910	2575	2277	289	639	39	182	505	8606	967	10260
1933	200	331	48	349	885	2224	3068	3425	2070	1009	62	49	531	1282	10787	1120	13720
1934	255	46	98	56	75	1668	3349	3300	2277	430	66	45	301	229	10594	541	11665
1935	188	162	54	173	57	926	3407	3105	2447	56	6	88	350	283	9885	150	10669
1936	102	262	89	51	833	3099	4369	3319	2749	947	90	145	364	973	13536	1182	16055
1937	0	777	72	275	506	1425	2973	3149	1879	962	2	37	777	853	9426	1000	12056
1938	204	178	37	53	687	2521	3218	3271	1849	751	75	0	381	777	10859	826	12844
1939	100	262	164	84	130	1872	3337	2890	2418	848	40	10	362	378	10517	898	12155
1940	64	342	602	123	518	1470	3671	3667	1288	353	12	195	406	1243	10096	560	12305
1941	273	34	32	58	400	2029	2271	3160	1665	797	202	4	307	490	9125	1002	10924
1942	316	421	85	169	160	1426	3632	3612	2848	227	265	44	737	414	11518	536	13205
1943	485	82	38	361	313	1227	3429	4451	2427	394	39	0	567	712	11533	433	13246
1944	293	515	559	286	134	1304	3613	3411	1491	810	25	12	808	979	9819	847	12452
1945	416	93	7	272	329	1053	2987	2592	2992	1321	24	37	508	608	9624	1382	12123
1946	2	159	66	527	623	1681	3621	3018	1757	1138	263	45	161	1216	10077	1446	12900
1947	172	135	186	64	256	1269	3522	2868	2157	732	43	226	307	506	9816	1001	11630
1948	214	199	100	107	372	1328	3665	3642	2421	717	431	6	413	579	11056	1154	13202
1949	79	315	59	206	567	1121	3405	3549	2415	1323	3	0	394	832	10490	1326	13042
1950	128	136	366	12	375	2223	3012	3303	1529	233	408	108	264	753	10067	749	11833
1951	130	48	409	161	323	1382	2625	2669	1851	675	189	0	178	893	8527	864	10462
1952	26	121	255	238	311	2204	2490	3461	2124	630	19	21	147	804	10279	670	11900
1953	355	57	12	79	234	1840	3831	3560	2416	261	231	8	412	325	11647	500	12884
1954	222	243	58	33	200	1162	2704	2659	2363	782	0	47	465	291	8888	828	10472
1955	277	63	41	117	283	1656	3368	3132	2431	1720	271	1	340	441	10587	1992	13360
1956	134	196	183	74	623	2302	3104	3308	2889	1840	235	53	330	880	11602	2128	14941
1957	517	107	246	38	56	950	3275	3214	1979	181	5	42	624	340	9418	228	10610
1958	121	152	97	137	188	821	3162	3399	2578	1303	174	30	273	421	9960	1507	12162
1959	474	42	56	135	477	1227	2706	3006	1703	1810	35	7	516	668	8642	1852	11678
1960	61	1	343	53	258	1133	3536	3755	2028	1218	20	50	62	653	10452	1288	12456
1961	215	579	2	72	332	1798	3048	3754	2341	1914	37	77	794	406	10941	2027	14168
1962	203	116	126	266	210	1161	2853	3146	2418	700	19	51	319	602	9578	770	11269
1963	74	54	112	211	542	1480	2891	3292	2631	1120	98	12	128	865	10294	1230	12517
1964	21	115	16	163	503	1085	4064	2863	2394	506	35	45	136	682	10406	586	11810
1965	36	88	266	234	235	649	2961	2315	1993	556	5	6	124	735	7918	567	9344
1966	268	81	14	108	279	2037	2191	2612	940	344	312	73	349	401	7780	729	9259
1967	144	2	476	211	175	1039	2814	4169	2098	147	14	272	146	862	10119	433	11561
1968	345	112	105	83	149	1643	3092	2590	1417	999	138	27	457	336	8742	1164	10700
1969	35	42	59	157	579	1157	3751	3120	2269	247	323	33	77	795	10297	603	11772
1970	234	493	278	116	497	1878	2420	2701	2667	658	51	0	727	891	9666	709	11992
1971	201	201	48	668	696	2531	3182	3967	1880	1425	38	0	402	1412	11560	1463	14837
1972	51	321	27	90	59	697	2315	2774	2303	540	215	4	371	176	8088	759	9396
1973	132	109	164	39	432	1396	3106	3166	2274	1663	68	61	240	635	9942	1792	12610
1974	7	27	191	62	349	798	3212	2871	1537	586	48	66	34	602	8418	700	9754
1975	122	143	156	103	180	1904	3435	2821	2218	724	48	0	265	439	10378	772	11854
1976	28	114	59	135	426	945	2947	3441	2524	221	115	10	142	620	9857	346	10965
1977	121	59	22	349	663	1364	3965	2732	1783	806	335	127	180	1034	9844	1268	12326
1978	129	328	354	114	222	1957	2894	3280	2191	733	79	96	456	690	10322	908	12377
1979	224	311	70	157	153	1246	2907	1511	941	375	263	117	535	380	6605	755	8275
1980	88	74	258	114	400	2207	4130	3041	2369	479	16	92	162	772	11747	587	13267
1981	260	134	262	253	634	1195	3869	2600	2293	48	92	72	394	1149	9957	212	11712
1982	154	188	557	221	372	1452	1992	3807	1770	279	162	51	341	1150	9021	491	11005
1983	127	205	100	424	595	1233	2848	2823	2919	851	10	145	332	1119	9822	1006	12280
1984	216	316	11	197	370	2981	3482	3452	1761	298	0	15	532	578	11676	313	13099
1985	173	117	14	99	388	1114	3311	2938	2837	1719	5	65	290	501	10200	1789	12780
1986	143	353	48	235	602	1833	3389	2531	1493	933	381	264	496	885	9246	1577	12205
1987	117	86	95	187	464	733	3102	2813	2220	586	413	51	203	746	8868	1049	10867
1988	30	205	304	292	272	1874	3109	3327	1588	461	12	87	235	868	9898	560	11560
1989	110	39	129	11	532	2089	3122	2767	2211	270	27	136	149	672	10189	433	11442
1990	1	492	373	289	809	1672	3939	2734	2252	817	377	73	493	1471	10597	1267	13827
1991	155	96	191	136	196	1434	2462	4138	1995	278	159	235	251	523	10029	672	11475

1992	67	98	5	51	483	1234	2935	3071	1451	515	107	2	165	539	8691	624	10019
1993	22	61	182	270	514	1819	2026	2572	3031	382	100	0	83	966	9448	482	10978
1994	206	230	5	230	331	1878	3507	3511	2075	474	63	1	436	566	10971	538	12511
1995	267	174	126	48	958	1160	2546	3183	2477	575	596	94	441	1132	9366	1265	12204
1996	294	265	19	120	142	1884	2155	3381	1536	502	7	2	559	281	8956	511	10306
1997	112	16	96	354	297	1696	3402	3332	1939	445	261	465	128	747	10369	1171	12415
1998	218	207	320	210	417	1012	3113	3175	2013	1009	297	8	425	947	9313	1314	11999
1999	72	31	0	10	829	1946	3106	2896	2404	1328	64	15	102	839	10352	1407	12701
2000	35	262	34	195	636	2249	2613	2268	2077	178	30	0	297	865	9207	208	10577
2001	22	26	209	175	720	2804	3696	2139	1497	1243	120	0	48	1104	10136	1363	12651
2002	171	205	80	133	544	1040	1486	2498	2193	368	44	32	376	757	7217	444	8794
2003	99	340	171	180	220	1582	2945	2980	2747	1435	75	162	439	571	10254	1672	12936
2004	189	38	28	392	404	1834	2476	2713	1410	1054	24	8	226	824	8433	1086	10570
2005	227	181	174	81	305	1125	3313	2204	2141	906	43	59	408	560	8782	1008	10759
2006	8	0	275	210	794	1765	3779	3275	1961	290	92	19	8	1279	10780	401	12467
2007	9	524	248	96	512	1807	3173	3077	2630	388	54	10	533	856	10687	452	12528
2008	201	65	87	128	466	3195	3932	3376	2021	155	52	0	266	681	12524	207	13677
2009	23	23	40	39	634	665	3184	2637	1930	962	158	35	46	713	8416	1155	10330
2010	52	95	34	45	601	837	2751	2350	2268	695	175	163	147	680	8206	1033	10066
2011	19	126	63	264	618	2332	2230	3089	2629	157	3	7	145	945	10280	167	11537
2012	370	54	46	255	128	845	3093	3170	2073	310	356	35	424	429	9181	701	10734
2013	72	406	32	272	462	2743	2697	2584	1490	2357	14	22	478	766	9514	2393	13151
2014	271	385	194	46	671	826	3143	2452	1686	682	7	60	656	911	8106	748	10422
2015	228	40	345	396	229	1544	2622	2222	1036	159	24	77	268	970	7423	260	8922
2016	62	64	111	27	608	1185	3290	2539	2156	526	35	1	126	746	9170	562	10603

 Values are up to 1 decimal

MEAN	156	184	146	163	418	1609	3155	3075	2080	715	137	63	340	729	9921	915	11907
P-Ann	13	15	12	13	35	135	265	258	174	60	11	5	28	61	833	76	1000
SD	131	163	146	129	218	623	596	507	522	488	157	85	209	307	1150	513	1331
CV	841	889	997	793	521	387	189	164	251	682	1145	1351	615	421	115	560	111

Table 6: PENINSULAR INDIA RAINFALL (1871-2016) 6 SUBDIVISIONS, AREA 442908 SQ.KM.
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	514	107	339	427	873	1611	2107	986	1504	1012	1598	108	621	1639	6208	2718	11186
1872	4	41	33	299	968	1817	2222	1631	1744	1576	1519	600	45	1300	7414	3695	12454
1873	1	392	23	505	711	1500	1626	1340	1110	2543	461	211	393	1239	5576	3215	10423
1874	2	69	14	225	1915	2236	2317	1124	2484	2418	783	227	71	2154	8161	3428	13814
1875	55	21	147	286	608	1757	1701	1519	1232	1530	341	205	76	1041	6208	2076	9402
1876	1	0	157	216	512	1396	1852	1292	697	470	331	128	1	885	5237	929	7052
1877	38	56	278	229	960	1747	777	1361	2072	2597	875	759	94	1467	5957	4231	11749
1878	60	0	60	506	847	1882	2199	3002	2295	1911	805	636	60	1412	9378	3352	14203
1879	84	73	315	146	1978	1473	1981	1714	943	1639	999	197	157	2439	6111	2835	11542
1880	45	57	50	426	894	1637	1612	1259	917	1832	2348	440	102	1370	5425	4620	11517
1881	51	0	136	128	695	1100	849	2161	1525	646	1464	303	51	959	5635	2413	9058
1882	241	10	40	195	1115	1790	2649	1498	1554	1438	2337	317	251	1350	7491	4092	13183
1883	17	106	167	270	772	1663	2029	1893	756	2715	1309	510	123	1209	6341	4534	12207
1884	84	17	41	138	454	1107	1189	1761	1244	2211	1585	988	100	633	5301	4784	10819
1885	16	9	159	89	615	2096	1928	1054	1313	1992	1270	952	25	863	6391	4214	11493
1886	45	2	99	117	1473	1734	2379	1841	1383	2200	937	295	47	1689	7337	3432	12505
1887	0	17	102	321	589	2333	1485	1414	1257	2483	1633	706	17	1012	6488	4822	12340
1888	24	8	12	294	1178	2025	1556	1335	1204	1348	1817	447	32	1484	6120	3612	11247
1889	27	6	77	444	594	2108	1991	1743	2495	2093	458	422	33	1115	8337	2973	12458
1890	31	38	146	576	667	1790	1817	1257	1143	1567	1064	178	69	1389	6007	2809	10274
1891	39	228	178	349	557	1433	1482	1020	783	2088	567	461	267	1084	4718	3116	9185
1892	6	71	55	569	823	1622	2380	2707	1294	2463	275	181	77	1447	8003	2919	12446
1893	55	137	479	348	912	1991	2008	999	1202	1949	2586	85	192	1739	6200	4620	12751
1894	70	125	258	538	564	1288	1525	1887	1165	2299	855	169	195	1360	5865	3323	10743
1895	5	10	31	673	587	1485	2018	1547	1611	2456	564	528	15	1291	6661	3548	11515
1896	67	0	44	162	730	1997	1645	1779	1201	735	1766	648	67	936	6621	3149	10774
1897	52	276	123	295	694	1885	1975	2101	2615	1156	506	101	328	1112	8576	1763	11778
1898	41	143	26	420	645	1628	1736	983	2205	1854	2205	480	184	1091	6552	4539	12366
1899	26	59	28	1329	658	1365	624	836	1463	1648	211	114	85	2015	4288	1973	8361
1900	79	6	12	760	487	1754	2260	1282	1670	1417	565	321	85	1259	6966	2303	10612
1901	137	551	95	348	670	1775	1570	1137	1491	1380	1805	557	687	1113	5973	3742	11516
1902	230	37	145	270	641	1289	2312	1473	1895	2645	1099	972	267	1056	6968	4716	13007
1903	120	31	1	140	1236	1601	2541	1817	2202	1697	2216	852	151	1377	8161	4765	14453
1904	196	3	52	219	1254	2035	1862	845	946	1753	103	230	199	1525	5688	2086	9497
1905	27	101	185	350	842	1706	1127	1804	858	2043	542	15	128	1377	5495	2600	9599
1906	374	137	106	62	356	1609	2173	2259	1127	1439	8881	130	511	524	7168	3457	11660
1907	65	13	165	763	357	1842	1917	1684	1265	989	1318	469	78	1285	6708	2776	10847
1908	250	124	141	260	597	1258	2262	1310	1849	1674	241	65	374	998	6679	1980	10031
1909	628	51	86	641	1590	1515	1952	2359	1536	949	437	250	679	2317	7361	1636	11993
1910	23	85	46	303	476	1830	2167	2095	1474	2556	1226	3	108	825	7566	3785	12284
1911	10	7	76	256	749	1830	1758	811	1065	1455	1229	664	17	1081	5464	3348	9910
1912	24	33	48	277	552	1716	2096	1930	1530	2362	1567	103	57	877	7272	4031	12237
1913	11	45	22	179	761	1243	1927	760	1347	2287	806	602	56	962	5277	3695	9990
1914	17	10	31	265	593	1413	2189	1773	1740	1701	930	637	27	889	7115	3268	11298
1915	370	97	470	357	619	1886	2167	1353	1929	1098	2339	215	467	1446	7335	3652	12900
1916	0	27	21	206	848	1804	2568	1720	1667	2468	1445	179	27	1075	7758	4091	12953
1917	36	319	189	102	801	2145	1281	2090	2203	1864	1385	229	355	1092	7718	3478	12644
1918	434	43	149	163	1640	1201	729	1082	1032	499	2497	467	477	1952	4044	3463	9936
1919	175	27	126	238	952	1471	2094	1145	1915	1401	2231	640	202	1316	6625	4272	12415
1920	628	28	40	482	481	1893	1592	1110	1445	1887	1941	22	656	1003	6040	3850	11549
1921	676	3	21	627	330	1300	2162	1928	1223	2219	792	224	679	978	6613	3234	11505
1922	274	91	41	252	966	1559	2201	1184	828	1804	2566	250	365	1259	5772	4620	12016
1923	537	109	285	188	434	1316	2208	1598	1733	1781	721	540	646	907	6855	3042	11450
1924	112	6	168	326	696	1835	2894	1568	2072	890	1585	217	118	1190	8369	2692	12368
1925	76	25	284	402	1220	1671	1799	1875	960	1701	1591	1027	101	1906	6305	4319	12630
1926	381	22	274	329	595	1414	2011	1495	1641	1217	585	95	403	1198	6561	1897	10059
1927	113	129	188	274	746	1806	2129	1187	1883	724	1636	115	242	1208	7005	2475	10930

1928	96	426	113	416	462	1408	1735	1706	925	2501	783	400	522	991	5774	3684	10971
1929	84	250	98	809	624	2300	1595	1067	1728	1694	1206	421	334	1531	6690	3321	11876
1930	204	265	148	206	1815	1753	1166	930	1622	3516	1456	414	469	2169	5471	5386	13495
1931	101	0	18	391	673	1475	1908	1994	1520	1457	15181	321	101	1082	6896	4296	12376
1932	4	266	64	325	1518	1072	1719	1783	1255	2140	1848	297	270	1907	5828	4285	12291
1933	8	24	238	404	1815	1695	2111	2120	1458	2305	703	671	32	2457	7383	3679	13552
1934	385	8	56	352	436	2024	1555	1181	549	2233	825	85	393	843	5309	3143	9689
1935	200	14	68	404	236	1415	1744	1812	1186	2056	559	286	214	708	6156	2901	9980
1936	24	431	335	222	1234	1801	1887	1107	1476	1299	1827	259	455	1791	6271	3384	11902
1937	45	190	168	1001	543	1192	2345	1135	1155	2031	1301	139	235	1712	5827	3471	11245
1938	0	283	237	343	642	1676	1778	2062	2011	789	562	199	283	1222	7527	1550	10582
1939	166	21	197	948	414	1530	1549	1369	1243	2783	1830	44	187	1559	5691	4657	12094
1940	6	8	170	474	1328	1730	2003	1928	1272	1890	2362	376	14	1972	6933	4628	13547
1941	106	56	18	410	937	1871	1133	1255	1723	1620	1224	722	162	1365	5982	3565	11074
1942	1	22	41	554	648	1999	1743	1432	1027	1409	613	856	23	1243	6201	2878	10345
1943	558	104	78	531	2199	1699	1759	916	1401	3063	995	218	662	2808	5775	4276	13521
1944	94	204	723	217	622	1711	2007	1150	1304	2343	1667	492	298	1562	6171	4502	12533
1945	21	25	23	492	499	1293	2390	1433	1093	1291	1120	61	46	1014	6208	2472	9741
1946	59	19	299	483	678	1937	1764	1896	1396	1550	27711	534	78	1460	6992	5855	14386
1947	304	119	253	542	381	1421	2112	2351	1922	1444	258	403	423	1176	7806	2105	11510
1948	208	61	129	349	872	1733	1784	1640	1097	1210	1903	169	269	1350	6254	3281	11155
1949	34	8	7	384	1442	1574	2414	1968	1918	1703	569	19	42	1833	7873	2291	12040
1950	4	310	110	94	785	1413	2284	1514	1655	1495	951	141	314	989	6866	2587	10756
1951	47	3	208	781	894	1767	2159	1011	1432	1140	1207	45	50	1882	6368	2392	10694
1952	49	211	60	261	1236	1410	1424	1295	514	1739	1421	1033	260	1557	4643	2914	9374
1953	94	51	30	696	345	1321	2941	1153	1426	3129	437	61	145	1071	6841	3627	11684
1954	275	13	333	430	914	1536	2359	1846	1097	2344	108	587	288	1677	6838	3039	11842
1955	114	25	115	621	2015	1661	1402	1652	1934	2071	888	648	139	2751	6649	3607	13146
1956	93	17	15	561	1060	2045	1931	1281	1565	2890	1553	294	110	1636	6822	4737	13305
1957	7	37	145	197	1172	2208	1930	1491	836	1722	1333	271	44	1514	6465	3326	11348
1958	58	71	145	517	1164	1626	1758	2068	1123	1981	1313	126	129	1826	6575	3420	11950
1959	24	237	8	508	935	2160	2619	1372	1608	1417	966	258	261	1451	7758	2640	12112
1960	28	37	145	413	1141	1317	2210	949	2216	1180	2181	142	65	1699	6692	3503	11958
1961	278	145	32	300	1363	2473	2895	2091	1571	1941	810	184	423	1695	9030	2935	14082
1962	77	167	89	503	1540	919	2081	2020	1899	3065	457	610	244	2132	6919	4132	13427
1963	298	40	196	551	520	1293	1935	2041	1196	2064	820	579	338	1267	6465	3463	11533
1964	7	6	112	151	519	1231	2520	1874	2309	1568	1317	285	13	782	7934	3170	11899
1965	38	39	40	389	477	1353	1486	1752	1192	730	7521	065	77	906	5783	2547	9313
1966	136	23	78	247	747	1430	1976	1400	1764	1992	2339	560	159	1072	6570	4891	12692
1967	200	1	308	218	644	1602	2422	1336	1052	1309	723	928	201	1170	6412	2960	10742
1968	24	84	250	713	398	1562	2421	815	1699	1350	1015	342	107	1361	6496	2707	10672
1969	9	40	39	318	1131	1282	2017	1511	874	2532	1401	758	49	1488	5684	4691	11912
1970	57	58	101	478	1189	1609	1749	2212	1342	1836	908	49	115	1768	6912	2793	11588
1971	114	110	206	624	1078	1753	1651	1727	1564	1746	362	637	224	1908	6695	2745	11571
1972	18	40	2	229	1452	1436	1564	840	1546	2470	900	965	58	1683	5386	4335	11462
1973	0	1	18	236	577	1505	1680	1946	1225	2119	591	535	1	831	6356	3245	10433
1974	7	99	76	345	1037	1036	2337	1397	2448	1696	426	75	105	1457	7218	2197	10979
1975	20	47	296	236	743	2287	2241	2075	2014	2385	1173	170	67	1275	8617	3728	13687
1976	5	1	83	528	386	903	1955	1889	811	1348	2349	190	6	997	5558	3887	10447
1977	12	65	113	492	1258	1666	1999	1592	1117	2666	2406	92	77	1863	6374	5164	13477
1978	53	187	44	387	1077	1996	2257	1765	1829	1228	1734	841	240	1508	7846	3803	13398
1979	8	279	62	257	821	1673	1570	1148	1967	1161	2785	284	287	1140	6358	4230	12015
1980	6	8	42	446	523	1940	1900	1617	1093	1323	1423	335	14	1011	6550	3081	10656
1981	120	21	243	299	760	2020	1850	1841	2244	1992	807	311	141	1302	7955	3110	12507
1982	7	0	55	266	668	1654	1616	1525	1010	1384	1416	163	7	989	5805	2963	9764
1983	2	16	31	52	664	1411	2043	2477	2520	1421	6591	182	18	747	8451	3262	12478
1984	192	802	626	519	352	1505	2083	826	1311	1354	799	357	993	1497	5725	2509	10726
1985	448	46	113	273	543	1831	1497	1496	1134	1468	1107	583	493	928	5958	3158	10539
1986	398	227	102	247	502	1593	1098	1741	1442	1320	1158	238	625	851	5874	2716	10066
1987	79	1	192	212	495	1619	943	1706	1119	2162	1697	915	80	899	5387	4774	11140
1988	0	39	168	682	720	1397	2411	2404	2232	597	569	314	39	1570	8444	1480	11533
1989	23	0	274	253	526	1719	2811	1385	1783	1070	789	207	23	1053	7698	2066	10839
1990	265	123	290	189	2170	1280	1451	1697	1191	2099	1235	153	388	2649	5618	3486	12143
1991	147	29	67	316	581	2839	1996	1626	1399	2099	1721	138	176	963	7860	3958	12958

1992	55	7	0	209	720	1927	1876	1837	1553	1455	2260	201	62	929	7193	3916	12099
1993	2	31	91	243	654	1532	1990	1418	1123	2579	1636	1034	33	988	6063	5249	12332
1994	115	157	42	521	646	1722	2376	1532	886	2672	1509	192	272	1209	6516	4373	12370
1995	247	11	132	345	1880	1444	2299	2068	1347	1691	715	14	258	2357	7158	2420	12193
1996	15	19	26	683	417	2490	1881	1865	2052	2195	678	1114	34	1126	8288	3986	13435
1997	119	11	171	440	498	1505	2207	1632	1859	1822	1888	1184	130	1109	7203	4894	13336
1998	52	56	41	410	540	1745	1967	1744	2326	2024	1508	787	107	991	7781	4319	13200
1999	23	82	20	419	1314	1599	1907	1183	1022	2465	912	223	105	1752	5711	3600	11169
2000	105	582	36	380	821	1827	1477	2527	1406	1375	696	457	687	1237	7236	2528	11688
2001	65	69	24	943	676	1383	1489	1291	1652	2110	825	273	134	1643	5815	3208	10800
2002	167	234	54	261	993	1481	845	1329	655	2260	780	127	401	1308	4310	3167	9186
2003	16	76	282	329	299	1592	2046	1480	921	2153	614	231	92	910	6038	2998	10039
2004	53	13	64	405	2241	1518	1662	1095	1558	1851	847	76	66	2710	5833	2774	11382
2005	48	69	68	942	716	1349	2142	1411	1808	3022	1569	620	117	1726	6710	5211	13764
2006	49	3	470	350	1437	1777	1457	1390	1798	2181	1368	145	52	2257	6422	3694	12425
2007	19	67	20	596	724	2426	1988	2296	2058	2092	457	667	85	1340	8768	3215	13409
2008	86	383	1316	301	501	1324	1615	1968	1323	1743	1742	207	469	2118	6230	3692	12508
2009	25	0	199	280	705	1286	2000	1525	1888	799	2040	537	25	1184	6699	3376	11283
2010	125	1	91	445	1261	1807	2516	2060	1734	2165	2678	794	126	1797	8116	5637	15677
2011	73	191	52	753	653	1551	1992	1984	1339	1638	1351	365	264	1458	6866	3354	11942
2012	102	13	54	602	462	1248	1404	1985	1262	1950	1209	223	115	1118	5899	3381	10514
2013	35	273	198	244	636	2152	2056	1509	1786	1910	856	181	308	1078	7502	2947	11836
2014	39	37	120	238	1186	1110	1822	2151	1364	1951	671	333	76	1544	6447	2955	11022
2015	37	13	211	856	943	1808	1074	1337	1535	1205	2693	621	50	2010	5754	4519	12332
2016	33	19	47	73	1068	1971	1571	936	1031	515	227	430	52	1188	5509	1172	7921

Values are up to 1 decimal

MEAN	109	90	137	391	857	1653	1896	1581	1478	1804	1213	414	199	1386	6609	3432	11628
P-Ann	9	7	11	33	73	142	163	136	127	155	104	35	17	119	568	295	1000
SD	141	125	154	210	424	326	433	431	445	591	655	318	189	455	981	926	1368
CV	1297	1390	1127	537	495	197	228	272	301	327	540	766	950	328	148	269	117

Table 7: ASSAM & MEGHALAYA SUBDIVISION, AREA 109096 SQ.KM 3.79 PER, 10 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	28	323	669	2053	3210	3917	4107	4008	2718	1256	299	36	351	5932	14750	1591	22624
1872	185	290	765	1805	3077	3446	4967	3551	4942	1567	80	39	475	5647	16906	1685	24714
1873	107	325	963	1833	1816	4220	3408	2816	1890	446	46	42	432	4612	12334	534	17911
1874	357	753	977	1791	4120	3780	5120	3285	3570	2260	227		6110	6888	15755	2493	26246
1875	453	192	1378	2227	2848	5596	4033	5343	1946	620	132	124	645	6453	16918	876	24892
1876	148	219	1100	1302	3480	5163	3841	3626	2222	1562	523	81	367	5882	14852	2166	23267
1877	328	371	1285	1635	3973	2937	4844	3135	4136	888	227	227	698	6893	15052	1342	23985
1878	104	397	851	1857	3098	4527	4690	5796	4483	1436	442	44	501	5806	19496	1922	27725
1879	66	136	265	1032	4038	5088	4975	4239	3919	1340	23	166	202	5335	18221	1529	25287
1880	384	576	2088	2065	2323	6465	4110	4206	2269	1394	111	269	960	6476	17050	1774	26259
1881	30	172	1091	2630	3920	3966	2992	4004	4500	942	146	30	202	7641	15462	1118	24423
1882	149	606	1264	1513	2559	3857	2372	4126	2729	3866	296	57	755	5336	13084	4219	23394
1883	225	95	682	1477	4788	3418	3220	4105	2589	605	91	497	320	6946	13332	1193	21792
1884	148	351	996	2146	3061	3581	2807	3386	1358	1159	210	56	498	6203	11132	1425	19259
1885	150	149	929	2022	2575	3876	4325	2409	4438	1071	202	125	299	5526	15048	1398	22271
1886	86	98	870	1542	2529	4401	5401	4285	4083	993	20	170	184	4941	18170	1183	24478
1887	553	79	1278	1794	2695	6349	2479	3157	2908	586	143	0	632	5767	14893	729	22021
1888	277	308	1208	2512	3594	4633	3737	3030	2376	936	239	1	585	7314	13776	1176	22851
1889	348	365	575	1751	3392	6112	4092	2921	4256	994	359	10	713	5718	17381	1363	25174
1890	282	55	945	1750	1931	5617	4293	4013	2210	1709	114	181	337	4626	16133	2004	23100
1891	76	476	722	1556	3861	2839	3938	3063	2459	628	399	0	552	6139	12298	1027	20017
1892	127	372	1006	3311	4515	3499	4300	4629	2552	1083	232	66	499	8832	14980	1381	25692
1893	325	404	892	2632	2756	3896	5101	3643	2346	1675	82	20	729	6280	14986	1777	23772
1894	52	589	849	1802	3686	4499	2397	3473	3933	2718	624	132	641	6337	14302	3474	24754
1895	123	164	828	2075	2876	2640	6766	3619	2839	899	208	149	287	5779	15864	1256	23185
1896	250	363	799	2271	2915	2334	3636	3001	2534	425	69	41	613	5985	11505	535	18638
1897	78	159	1523	934	3499	3690	3468	3557	5082	1667	210	1	237	5956	15797	1878	23868
1898	139	415	261	1681	2250	3954	3324	4421	2887	2059	56	136	554	4192	14586	2251	21583
1899	211	456	1029	1978	3212	4953	3810	4182	3807	1431	107	85	667	6219	16752	1623	25261
1900	95	324	977	2572	2714	3880	4327	2006	1674	876	110	54	419	6263	11887	1040	19609
1901	210	153	218	2080	1712	4564	3434	3895	3160	1697	1133	17	363	4010	15053	2847	22273
1902	71	99	902	3153	2327	5249	4112	4598	4098	1082	62	6	170	6382	18057	1149	25759
1903	155	276	1105	1098	1728	5699	3613	4779	2886	1574	641	8	431	3931	16977	2223	23562
1904	112	573	472	4670	3309	3417	4000	4292	2403	887	563	19	685	8451	14112	1469	24717
1905	141	215	1183	1811	2541	4317	3748	6131	2332	1923	158	190	356	5535	16528	2271	24690
1906	103	634	924	2465	2614	3754	4415	5229	3230	1674	460	0	737	6003	16628	2134	25502
1907	401	345	1266	2120	1969	4519	4586	2529	3195	299	100	206	746	5355	14829	605	21535
1908	145	253	198	1571	2937	3488	4250	2835	3883	934	48	0	398	4706	14456	982	20542
1909	211	62	45	1703	2683	5552	2783	3850	1958	1826	314	69	273	4431	14143	2209	21055
1910	89	335	1274	1852	2208	5322	5792	3249	2367	1889	167	50	424	5334	16730	2106	24594
1911	633	165	671	2165	3827	4425	4300	3406	3498	2363	203	20	798	6663	15628	2586	25676
1912	131	538	1234	2729	2264	3547	5084	3980	2290	1656	748	62	669	6226	14901	2466	24263
1913	97	724	991	2867	3928	4397	3959	3022	2313	2297	98	361	821	7786	13691	2756	25054
1914	62	672	560	2456	3048	3343	3935	3901	2407	565	96	85	733	6064	13586	746	21130
1915	84	576	793	2029	6085	4834	6212	4415	2204	1207	153	28	660	8907	17665	1388	28620
1916	144	235	643	2139	3044	3744	3799	4262	2560	2793	462	31	379	5826	14365	3286	23856
1917	59	861	390	1765	1748	4956	4122	2930	2965	1920	578	20	920	3903	14973	2518	22314
1918	41	135	941	1382	2458	5753	6779	4795	3468	704	22	7	176	4781	20795	732	26484
1919	148	106	303	1482	2676	4190	3506	2067	3390	1768	450	12	254	4461	13153	2230	20098
1920	64	403	1918	1675	2433	3861	2632	4172	3485	1198	68	42	467	6026	14150	1308	21951
1921	345	154	1249	2817	3513	5196	4638	4010	2988	1372	122	126	499	7579	16832	1620	26530
1922	179	46	727	1313	1997	4291	3449	3936	2588	1130	176	43	225	4037	14263	1349	19875
1923	4	563	398	2171	3080	5555	3143	2506	3222	967	102	44	567	5649	14426	1113	21754
1924	72	248	205	1859	2798	3770	5877	3684	3127	1116	1496	9	320	4862	16458	2621	24261
1925	215	188	583	2223	4961	3018	3557	3232	2961	1023	77	2	403	7767	12768	1102	22040
1926	297	187	1407	1359	2827	4911	4616	3011	1930	1725	90	294	484	5593	14468	2109	22654
1927	399	622	642	2130	2463	4068	4233	3790	4864	1481	263	0	1021	5235	16955	1744	24955
1928	102	256	446	1393	3614	4060	3525	3798	3128	2843	245	29	358	5453	14511	3116	23439

1929	817	38	1000	2776	5020	5379	3325	3531	2486	1759	165	275	855	8796	14721	2199	26571
1930	260	354	731	2081	1613	6197	2437	3795	2630	1358	1287	38	614	4425	15059	2683	22781
1931	65	256	429	2429	3123	6214	5456	2590	2844	1445	257	293	321	5981	17104	1995	25400
1932	186	363	595	1813	4546	5018	3833	3601	2808	989	960	178	549	6954	15260	2127	24890
1933	114	284	205	2103	2671	4207	3485	4937	2000	1082	61	59	398	4979	14629	1202	21208
1934	151	681	241	2735	3854	7761	4607	3041	2351	2366	594	37	832	6830	17760	2997	28419
1935	52	487	562	998	2564	5745	3418	5000	3022	356	176	16	539	4124	17185	547	22396
1936	139	572	686	1749	4678	3635	4740	2931	2759	2013	224	157	711	7113	14065	2394	24282
1937	54	469	156	891	3998	4039	3616	4548	2266	1584	142	109	523	5045	14469	1834	21871
1938	317	162	1127	1878	2487	4406	4414	4274	3361	1474	678	13	479	5492	16455	2165	24591
1939	21	329	143	1553	3052	5198	3877	1967	3861	1873	12	36	350	4748	14902	1921	21922
1940	20	526	1766	634	3955	4046	3635	2969	3537	1213	178	151	546	6355	14187	1542	22630
1941	58	344	490	2286	4745	4947	3222	3244	2748	1607	231	98	402	7521	14161	1936	24020
1942	62	271	1038	2195	3931	5339	3024	3383	4450	394	449	0	333	7164	16196	843	24535
1943	530	430	1543	2449	3673	4239	3980	3538	3763	1069	84	35	960	7665	15520	1188	25332
1944	432	182	569	1445	4389	3856	3731	3365	3324	773	54	90	614	6403	14276	917	22209
1945	516	265	792	1500	3154	4923	4523	4174	2835	2198	77	47	781	5446	16455	2322	25004
1946	11	238	1193	2366	3083	5158	4839	2550	2207	4710	129	9	249	6642	14753	4848	26492
1947	44	56	892	2392	3985	5484	5439	3346	3904	2534	39	159	100	7269	18173	2731	28273
1948	105	397	594	2653	7058	5328	4882	3979	2625	2578	602	48	5021	10305	16814	3228	30849
1949	215	262	525	3530	3929	5094	3404	4058	3624	1395	149	153	477	7984	16180	1697	26337
1950	141	547	799	950	3036	5886	3367	4383	2007	1659	700	20	688	4785	15642	2379	23495
1951	47	11	403	2221	2801	5854	6137	3385	1942	2915	559	30	57	5425	17318	3504	26305
1952	52	53	1033	1765	4708	3805	5411	4238	3364	3220	568	15	105	7506	16818	3803	28232
1953	292	232	2029	1587	3650	4284	4588	2931	4413	1252	50	95	524	7266	16215	1397	25402
1954	184	662	287	1997	3768	4518	4273	3763	2069	2033	2	247	846	6051	14622	2282	23802
1955	116	111	1284	2170	3054	4858	5503	3292	2754	1632	1253	103	227	6508	16407	2988	26130
1956	292	41	1443	1752	4254	7286	3687	3904	1471	1709	434	132	333	7449	16348	2274	26404
1957	758	389	290	1489	4232	4471	3480	2920	2385	1241	143	881	147	6011	13256	1472	21886
1958	165	417	103	1887	4925	3394	2792	4164	2645	1670	31	121	582	6915	12995	1822	22314
1959	314	541	985	1140	4000	4157	2911	2345	2797	3631	110	14	855	6125	12210	3755	22945
1960	0	117	416	442	3046	4087	5496	3619	4445	856	335	51	117	3904	17647	1242	22910
1961	111	195	2535	1395	3569	3518	3625	3086	2355	1193	349	49	306	7499	12584	1591	21979
1962	195	313	175	1366	3013	4786	2835	4109	1307	1095	49	36	508	4554	13037	1180	19279
1963	48	57	599	1989	2880	5534	4710	4032	2276	1642	293	49	105	5468	16552	1984	24109
1964	102	246	793	2722	2910	4428	5141	2843	3061	2161	152	98	348	6425	15472	2411	24657
1965	31	590	686	1385	2988	4875	3539	3445	3021	917	524	85	621	5059	14880	1526	22085
1966	191	118	210	1313	3515	6566	4477	5074	2479	1708	473	134	309	5038	18596	2315	26257
1967	196	421	1244	1391	2519	3498	3997	2179	3130	707	191	18	617	5154	12804	916	19491
1968	195	220	781	1596	3327	4812	4789	3705	2171	1131	83	15	415	5704	15477	1229	22825
1969	197	7	1054	1719	2457	4909	3964	3977	1669	947	228	48	204	5230	14519	1223	21176
1970	562	414	877	1948	3242	5249	5193	3559	2522	2653	720	23	976	6067	16523	3395	26962
1971	152	150	411	2078	2443	3593	3612	3218	2030	2141	1019	43	302	4932	12453	3203	20890
1972	120	254	727	2179	3047	5122	3804	2299	2003	751	69	31	374	5953	13228	851	20406
1973	111	736	281	2393	3622	6110	3094	3104	3161	1497	766	705	847	6296	15469	2968	25580
1974	285	62	749	1995	3030	5203	7812	3823	2883	2201	287	28	347	5774	19721	2516	28358
1975	111	208	209	1525	3234	2410	4646	2736	2425	1662	339	15	319	4968	12217	2016	19520
1976	72	467	1203	1980	2099	5475	5588	3030	1610	527	192	112	539	5281	15703	831	22354
1977	74	253	713	4209	3568	4450	4492	4180	1760	1572	432	271	327	8490	14882	2275	25974
1978	25	85	429	1075	2576	4250	3710	2467	2589	905	560	0	110	4080	13016	1465	18671
1979	42	123	456	1080	1769	2835	5946	2452	5324	1740	204	376	165	3305	16557	2320	22347
1980	85	395	963	1767	3199	3499	3725	3211	2540	2053	4	16	480	5929	12975	2073	21457
1981	319	304	1110	1663	3382	2526	5054	3526	2259	423	51	409	623	6155	13365	883	21026
1982	26	246	412	2660	1662	4184	3506	3444	2806	539	459	141	272	4734	13940	1139	20085
1983	167	430	810	1977	2495	3112	5513	3443	3866	2154	95	281	597	5282	15934	2530	24343
1984	139	54	198	1663	3404	3471	4887	3070	3576	1311	85	296	193	5265	15004	1692	22154
1985	70	373	1088	2203	2743	4586	4331	2732	2853	469	68	131	443	6034	14502	668	21647
1986	99	130	292	2846	1923	2569	3479	2910	2846	3025	762	69	229	5061	11804	3856	20950
1987	63	341	1136	1792	1719	4442	5583	3280	4233	969	287	89	403	4647	17538	1345	23934
1988	98	319	872	1437	4492	3599	5363	6672	3328	1915	2771	163	417	6801	18962	4849	31029
1989	108	606	430	1833	2317	3971	6649	2877	3814	2558	187	68	714	4580	17311	2813	25418
1990	105	423	753	2960	2844	3676	3552	2440	3213	1822	231	58	528	6556	12881	2111	22077
1991	113	229	606	1767	4391	4950	3443	3525	4026	2691	100	441	342	6764	15944	3232	26282
1992	182	511	667	1305	3017	4266	4146	2982	3182	1143	113	100	693	4989	14576	1356	21614

1993	636	857	904	1688	3435	6227	5496	4012	3451	950	86	241492	6027	19186	1060	27766	
1994	259	560	1612	2285	2868	4791	2902	3508	1862	1852	176	230	819	6765	13063	2258	22905
1995	122	394	496	1372	2759	5043	3963	3914	3395	675	795	50	516	4627	16315	1520	22977
1996	145	275	1379	1021	4406	3468	4136	3308	2311	2519	82	0	420	6806	13222	2601	23049
1997	209	442	715	1796	2560	4591	4316	2755	3490	336	186	328	651	5071	15152	850	21724
1998	138	343	1350	1875	2369	4455	4675	4371	1983	1643	538	0	481	5594	15484	2181	23740
1999	11	2	317	1187	4078	3232	5264	4155	2141	2239	117	3	13	5581	14792	2359	22746
2000	209	150	640	2752	3553	4929	2619	4100	3433	922	154	10	359	6945	15081	1086	23470
2001	57	735	277	1843	2348	3515	4150	2291	2490	2057	164	27	792	4468	12446	2248	19954
2002	227	100	822	2952	2831	4992	4343	2930	1997	477	788	36	327	6605	14262	1301	22495
2003	82	453	862	1812	1941	4981	4263	2436	2322	2220	131	241	535	4615	14002	2592	21744
2004	141	209	598	3542	3761	2988	6722	2483	2359	3974	75	66	350	7901	14552	4115	26917
2005	212	450	1905	2165	3163	3405	4029	4514	1460	2016	136	18	662	7233	13408	2170	23473
2006	5	511	239	1889	3264	3466	3080	2221	2110	1023	352	86	516	5391	10877	1461	18246
2007	13	769	293	2981	2009	4330	5753	3243	3547	1788	624	61	782	5283	16873	2473	25411
2008	388	100	1316	1974	2737	4340	4050	3864	2267	1586	63	0	488	6027	14521	1649	22685
2009	72	118	538	1375	2400	3064	3968	4390	1718	1501	142	41	190	4313	13140	1684	19327
2010	31	13	1094	3717	3701	4829	3084	3554	3093	1232	138	100	43	8512	14560	1470	24586
2011	83	157	935	1008	2516	3656	3402	2948	2426	447	161	61	240	4459	12432	669	17799
2012	134	34	324	1975	1766	6379	4503	2565	3319	1528	132	22	168	4065	16766	1682	22680
2013	8	125	514	1453	3998	2811	2788	3060	2029	1252	4	13	133	5965	10688	1269	18055
2014	15	215	279	504	3181	3213	2824	4207	3907	487	26	5	230	3964	14150	518	18863
2015	145	158	384	2674	3155	5095	2434	5257	2579	626	145	121	303	6213	15365	892	22773
2016	203	164	669	3529	3219	3287	3802	1626	2447	1337	423	59	366	7416	11162	1819	20764

 Values are up to 1 decimal

MEAN	171	314	801	1962	3167	4433	4186	3563	2895	1510	298	92	486	5931	15079	1901	23398
P-Ann	7	13	34	83	135	189	178	152	123	64	12	3	20	253	644	81	1000
SD	149	199	444	671	887	1009	1009	834	825	772	344	110	247	1219	1898	878	2568
CV	871	633	554	342	280	227	241	234	284	511	1152	1195	509	205	125	461	109

Table 8: NAGA.MANI.MIZO.& TRIP SUBDIVISION, AREA 70495 SQ.KM 2.45 PER, 4 STN
 Monthly and seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	321	488	1487	1624	2863	3865	3230	2527	1334	39	0	321	3599	12485	1372	17778
1872	29	84	381	749	2407	2707	5302	2988	4175	1757	5	58	112	3537	15172	1820	20642
1873	100	184	706	1235	1066	3488	2799	3713	1852	512	95	126	284	3007	11852	733	15876
1874	420	890	673	1043	2199	2718	4697	2402	3736	2174	269	0	1310	3915	13553	2443	21220
1875	512	77	1424	1242	2821	5049	4489	6153	1835	545	36	63	589	5486	17526	644	24246
1876	0	235	1273	883	2696	4430	3269	4146	2464	1140	768	89	235	4852	14309	1997	21393
1877	327	393	1089	635	1961	1871	4027	3944	3447	696	115	11	720	3685	13289	822	18516
1878	186	381	534	1207	1987	3243	3427	4523	4638	1945	692	140	567	3728	15831	2777	22903
1879	38	190	147	333	2243	5655	3439	3419	3735	1914	6	187	228	2723	16248	2107	21306
1880	354	543	1677	782	2355	4745	3368	3514	2800	1310	82	89	897	4814	14427	1480	21618
1881	4	66	1248	1717	2654	3229	4062	3492	3509	1116	367	81	70	5619	14292	1564	21545
1882	109	984	742	999	2671	3831	3784	3559	3012	1943	692	110	1093	4412	14186	2745	22436
1883	129	102	786	966	3907	3646	3291	5399	2371	318	130	1246	230	5659	14707	1694	22291
1884	80	374	726	1649	2436	3759	2412	3686	2462	1434	494	17	454	4811	12318	1944	19529
1885	28	319	755	1066	1273	3711	3237	2957	3619	890	664	48	347	3094	13524	1602	18567
1886	8	103	1101	1074	2113	3982	5159	4932	2611	1172	2	31	111	4288	16684	1204	22288
1887	590	18	1828	866	1959	3558	2741	3374	2344	566	518	0	608	4653	12017	1084	18362
1888	280	561	1195	2475	2293	2810	3837	4083	2168	874	115	0	841	5963	12898	989	20691
1889	51	246	425	1239	1657	3279	3514	2325	2919	822	722	44	297	3320	12037	1587	17243
1890	177	0	1483	1057	1865	2932	4914	2585	2468	1299	35	74	177	4405	12899	1407	18889
1891	8	350	491	1346	3269	4150	3750	2912	2106	447	580	9	358	5106	12917	1036	19418
1892	15	441	266	2197	2742	2532	2745	3617	1914	1950	556	59	456	5205	10808	2565	19034
1893	288	594	1071	686	4948	6236	4357	3792	3431	1865	98	57	882	6705	17816	2020	27423
1894	5	442	2653	1150	2641	4042	3880	4426	3533	2231	1240	239	447	6444	15881	3710	26482
1895	50	8	782	2059	3157	3103	3542	3563	3048	1722	289	747	58	5998	13256	2758	22069
1896	153	1216	482	1247	1813	2891	2846	2604	2559	23	66	0	1369	3542	10900	89	15900
1897	6	137	911	322	2022	3740	3633	4863	2551	1975	548	21	143	3255	14787	2544	20729
1898	173	414	143	227	1053	5260	3328	4612	2529	1308	6	35	587	1423	15729	1349	19088
1899	190	440	877	1212	2440	4295	5241	4140	2871	2379	177	141	630	4529	16547	2696	24403
1900	26	826	1418	1465	1415	3625	3477	1675	1920	608	22	93	852	4298	10697	723	16570
1901	110	163	266	1647	814	4345	2801	3282	2617	1997	663	14	273	2727	13045	2674	18719
1902	0	6	275	2498	2084	4495	2819	2865	2386	1114	91	40	6	4857	12565	1245	18673
1903	92	272	1145	368	1124	4030	2119	3841	2679	1339	503	0	364	2637	12669	1842	17512
1904	1	449	510	2613	1795	3371	3839	3115	2738	1092	817	73	450	4918	13063	1982	20413
1905	49	257	2545	1130	1400	2884	4139	4952	2884	2067	13	184	306	5075	14859	2264	22504
1906	44	701	890	1151	2242	3351	3723	4122	4335	1115	372	43	745	4283	15531	1530	22089
1907	340	279	825	1915	1529	3039	3396	2197	2482	602	11	310	619	4269	11114	923	16924
1908	152	153	37	842	1690	2985	5695	2026	2619	1422	660	0	305	2569	13325	2082	18281
1909	25	36	18	1526	1765	3474	2454	4904	2180	1497	667	606	61	3309	13012	2770	19152
1910	189	177	317	1064	1923	3400	4523	3846	3457	1543	76	0	366	3304	15226	1619	20515
1911	547	62	767	1237	2396	3835	4183	3047	1774	1733	41	0	609	4400	12839	1774	19622
1912	25	293	985	2277	2160	2733	3587	3080	2403	1778	473	47	318	5422	11803	2298	19841
1913	32	440	815	1368	2507	4158	4006	3844	1565	1547	383	161	472	4690	13573	2091	20826
1914	0	696	1086	2245	1894	3044	3289	4698	1948	1175	92	706	696	5225	12979	1972	20873
1915	152	232	778	1511	3534	3200	3532	4609	2374	1803	407	0	384	5823	13715	2210	22132
1916	60	163	156	1733	1055	2922	3204	3006	3033	2744	285	46	223	2944	12165	3075	18407
1917	0	788	309	2315	1213	2715	3827	3428	2818	1209	618	0	788	3837	12788	1827	19240
1918	49	16	1210	1180	3002	4765	4929	5210	2248	618	202	47	65	5392	17152	867	23475
1919	98	112	141	1048	1054	2830	3905	2987	2915	597	781	17	210	2243	12637	1395	16484
1920	13	412	1698	884	1352	2883	2806	3347	3007	1159	43	2	425	3934	12043	1204	17606
1921	269	159	1843	1173	1955	3261	3611	3179	3547	2418	67	1	428	4971	13598	2486	21483
1922	31	20	259	1044	1423	4145	3452	4101	2150	1331	269	56	51	2726	13848	1656	18281
1923	0	443	230	1610	2083	4194	2921	3466	2109	1484	944	62	443	3923	12690	2489	19546
1924	59	401	26	1485	2487	4016	3171	3548	2025	1207	1464	0	460	3998	12760	2670	19889
1925	167	282	163	1405	3183	2892	3692	3537	2275	1502	313	0	449	4751	12396	1815	19411
1926	198	521	1294	1445	1760	2785	3849	3731	2484	1328	235	508	718	4499	12849	2071	20138
1927	317	1175	456	2964	1957	2857	3540	2648	4163	1679	182	11	1492	5377	13208	1862	21939

1928	17	186	410	533	2806	3339	2537	3670	1888	1900	87	0	203	3749	11434	1987	17373
1929	179	58	444	2129	2995	6581	3372	3341	3044	748	48	158	237	5568	16338	954	23097
1930	99	553	1129	1033	2351	4134	4067	3216	2091	509	1787	0	652	4513	13507	2296	20969
1931	8	234	462	603	2400	2789	4005	2092	2544	1954	490	77	241	3465	11430	2521	17658
1932	65	515	682	1140	2112	4008	4215	3034	2153	325	985	32	580	3934	13410	1342	19266
1933	2	77	230	1319	1984	2688	2901	4410	1757	549	55	57	79	3533	11756	661	16028
1934	471	158	305	1182	2606	4795	4855	2379	2091	1647	1120	891	205	4093	14120	2856	22274
1935	0	267	133	1134	903	4028	2593	5090	1989	972	74	0	267	2170	13700	1046	17183
1936	55	455	500	1618	4513	3640	4115	4288	2618	1565	114	36	510	6631	14661	1715	23517
1937	0	317	145	474	2160	3815	2923	4474	2155	1217	137	647	317	2779	13367	2000	18463
1938	159	106	747	1029	3835	3980	2818	3831	2643	1298	837	0	265	5611	13272	2135	21282
1939	58	330	343	1068	1810	3093	4871	2306	2691	1526	420	15	388	3221	12961	1961	18530
1940	15	532	1448	142	2577	3427	3164	3096	3207	1131	246	197	547	4167	12893	1574	19182
1941	698	550	309	1700	4119	5593	3963	2094	2072	1487	500	431	248	6128	13722	2030	23128
1942	22	65	491	2116	2219	4509	2683	4046	2437	429	1381	0	87	4826	13674	1810	20398
1943	539	252	1002	789	1004	3401	2935	4106	2409	449	0	0	791	2795	12851	449	16886
1944	632	210	425	836	1713	3990	3400	3126	3157	772	1	0	842	2974	13673	772	18261
1945	552	521	266	722	2004	4102	3593	3251	2056	1462	99	312	1073	2991	13002	1872	18939
1946	0	135	1478	1919	1979	3467	5373	2233	2218	2982	44	440	135	5376	13291	3466	22268
1947	8	36	142	1281	2754	6056	5129	3555	3388	2211	9	257	44	4177	18128	2477	24825
1948	1	664	263	1372	3821	2547	3211	3167	4278	1210	609	32	665	5456	13203	1850	21175
1949	58	50	168	2361	2943	3955	3798	3361	3131	1304	62	6	108	5472	14245	1372	21197
1950	64	371	497	468	1484	3557	2977	4006	1731	1926	1068	57	435	2449	12271	3051	18206
1951	4	0	330	1553	1444	5377	4314	4079	1147	2526	206	56	4	3327	14917	2788	21036
1952	51	37	541	1808	2937	3590	4246	2293	2497	3300	510	0	88	5286	12626	3810	21810
1953	57	126	541	511	3531	4405	3412	3768	4351	759	128	23	183	4583	15936	910	21612
1954	58	544	223	588	1846	4858	3499	4619	2649	2490	19	15	602	2657	15625	2524	21407
1955	48	23	1049	1331	2260	3308	3999	3298	1961	1199	1527	33	71	4640	12566	2759	20036
1956	214	11	692	966	4388	5209	4425	4944	2465	1227	625	91	225	6046	17043	1943	25257
1957	408	285	58	670	1330	3775	2414	3133	2919	989	18	5	693	2058	12241	1012	16004
1958	89	423	66	1118	3612	2823	3642	3028	2282	1234	42	66	511	4796	11775	1342	18425
1959	359	561	1446	657	2009	3250	3236	3801	2034	3170	4	0	920	4112	12321	3174	20526
1960	0	33	375	338	2000	4085	4277	3198	3485	1113	568	0	33	2713	15045	1681	19472
1961	110	231	1895	552	2343	3871	2933	2633	2125	921	327	23	341	4790	11562	1271	17964
1962	138	243	74	1707	1668	4684	2993	3877	1130	1428	3	0	381	3449	12683	1431	17945
1963	0	43	592	1087	2134	4162	3744	3479	1983	2548	96	23	43	3813	13368	2666	19891
1964	46	261	479	2013	2358	4132	3901	2423	2666	2822	366	53	307	4850	13122	3241	21520
1965	28	734	358	547	1665	4869	3832	3535	2385	1142	239	466	762	2570	14621	1846	19800
1966	148	5	249	744	1666	5173	3295	2880	3381	1881	294	651	153	2659	14729	2826	20367
1967	304	228	969	1363	1828	2575	3829	2569	2604	1257	65	0	532	4160	11577	1322	17591
1968	161	348	772	1058	2188	4522	6580	3420	1775	1019	426	10	509	4018	16297	1455	22279
1969	77	2	680	1578	948	4494	3550	3814	1126	1037	370	4	79	3206	12984	1410	17680
1970	500	515	496	821	1337	3826	3894	2689	1887	2569	432	141	1015	2654	12296	3015	18980
1971	104	196	163	1828	2114	3484	2806	3574	2144	1434	1008	37	300	4105	12008	2479	18892
1972	40	320	340	1084	1684	3194	2503	2720	1494	702	96	1	360	3108	9911	798	14177
1973	122	578	326	1421	2937	4290	2938	2996	2059	1517	1697	1085	700	4684	12283	4299	21965
1974	76	10	1033	1303	1911	3800	5484	3140	2268	1408	611	0	86	4247	14692	2019	21044
1975	22	223	241	975	1890	2849	4841	2534	2493	2008	1065	8	245	3106	12717	3080	19149
1976	130	336	1147	1642	1362	4965	3746	3281	1400	380	263	2	466	4151	13392	645	18654
1977	105	197	220	2918	2278	3671	3441	3401	2147	1337	462	232	302	5416	12660	2030	20408
1978	0	43	276	1040	2909	3742	2579	3273	2979	556	274	0	43	4225	12572	830	17671
1979	5	91	911	538	856	2444	4300	2839	2459	603	434	409	96	2305	12042	1446	15889
1980	16	290	963	1159	3296	2696	3216	1909	1796	2399	0	8	306	5418	9617	2407	17748
1981	244	191	556	2086	1903	1945	3100	2584	1651	455	87	58	435	4545	9280	600	14860
1982	0	575	390	2348	1024	3295	2367	3343	2303	302	444	31	575	3761	11308	777	16422
1983	251	342	1874	2354	2136	2553	2623	3136	1923	1822	283	424	593	6364	10234	2529	19721
1984	42	27	15	645	3193	3639	2823	2542	2702	1218	0	72	69	3853	11706	1290	16917
1985	27	280	811	979	2630	3387	3137	1999	2159	266	274	48	307	4420	10682	588	15997
1986	55	138	248	2222	1047	3414	2848	3375	2391	2439	755	2	193	3517	12027	3196	18934
1987	121	130	882	1897	878	2301	3209	3439	4146	719	439	33	251	3657	13095	1191	18194
1988	12	260	752	804	3857	3469	5335	3662	1779	3252	534	100	272	5413	14245	3886	23816
1989	62	183	131	1675	2100	2911	5402	2805	2492	3670	44	45	245	3906	13610	3759	21520
1990	0	412	1272	2331	1961	3543	4128	2504	2513	1773	520	117	412	5564	12688	2410	21074
1991	136	278	598	1516	4739	3659	3058	2832	3676	2741	319	599	414	6853	13225	3659	24150

1992	0	410	213	504	1732	1972	4233	3007	2648	2163	169	244	410	2449	11860	2576	17295
1993	1671845	754	1706	3121	3385	4589	4430	2460	1322	101	0	2012	5581	14864	1423	23880	
1994	33	389	2081	976	1183	2782	2565	3271	1238	745	122	0	422	4240	9856	867	15385
1995	76	422	270	699	2164	2601	2778	3845	2504	1180	1493	0	498	3133	11728	2673	18032
1996	1	246	1280	746	2316	2665	2856	3016	2681	1928	56	7	247	4342	11217	1991	17798
1997	73	205	1181	929	1736	2914	6284	2671	3079	327	47	323	278	3846	14948	697	19769
1998	277	334	1404	1471	3067	2288	3905	3892	1715	712	453	1	611	5942	11800	1166	19519
1999	15	1	396	166	2557	3998	4186	2862	2597	1960	60	52	16	3119	13643	2072	18850
2000	236	93	1166	1522	3869	3296	2104	4732	2207	1993	69	0	329	6556	12339	2062	21287
2001	15	581	214	685	3030	4832	2525	2556	2520	2728	557	0	596	3929	12433	3285	20242
2002	219	12	611	1153	2468	2681	6020	3175	2297	951	747	47	231	4232	14172	1744	20380
2003	35	78	451	1229	2097	4151	2964	2180	2196	1259	24	403	113	3777	11491	1686	17067
2004	37	25	114	3008	1586	4786	3757	2301	2437	1385	94	9	62	4708	13281	1487	19539
2005	12	177	706	529	1342	1841	1725	3360	2832	1975	66	149	189	2577	9758	2190	14713
2006	0	243	14	720	3407	3493	2353	2100	2176	479	180	99	243	4141	10122	758	15264
2007	0	954	132	2088	2481	3357	4180	2465	3252	1820	894	0	954	4701	13254	2714	21622
2008	384	165	498	176	1788	2350	3357	3149	1990	1094	4	0	549	2462	10846	1098	14955
2009	0	104	217	360	1262	2265	3176	3432	2149	1507	193	0	104	1839	11022	1700	14665
2010	32	82	761	1696	2668	3744	3235	3190	2168	1931	68	379	114	5125	12337	2378	19954
2011	135	18	415	557	2626	2860	2553	2769	1809	510	0	0	153	3598	9991	510	14252
2012	125	59	283	1533	1088	2982	2602	1972	2387	1596	485	1	184	2904	9943	2082	15112
2013	0	72	274	1233	3731	2642	3299	3349	3376	1418	0	12	72	5238	12666	1430	19406
2014	10	212	229	430	1578	2409	2611	3362	2651	548	24	0	222	2237	11033	572	14064
2015	130	143	195	2199	1626	2643	3351	3078	2671	873	33	109	273	4020	11743	1015	17051
2016	76	339	520	1174	2342	2584	2880	2881	2608	903	680	15	415	4035	10953	1598	17002

 Values are up to 1 decimal

MEAN	117	303	672	1263	2227	3583	3609	3368	2538	1410	361	108	420	4164	13099	1880	19564
P-Ann	5	15	34	64	113	183	184	172	129	72	18	5	21	212	669	96	1000
SD	147	281	521	617	840	894	877	800	672	710	383	201	329	1146	1745	831	2576
CV	1262	927	774	488	377	249	243	237	264	504	1061	1851	785	275	133	442	131

Table 9: SUB-HIMA. WEST BENGAL SUBDIVISION, AREA 21625 SQ.KM 0.75 PER, 5 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	68	698	723	1391	3620	6237	4144	4383	683	49	0	68	2812	18384	732	21995
1872	168	97	125	1119	1732	5537	4875	4897	3940	2027	1	0	265	2976	19249	2028	24518
1873	29	16	204	1251	604	5630	3788	3333	2818	50	0	24	45	2059	15568	74	17747
1874	206	214	231	1060	1987	5239	5003	3548	8826	2888	0	3	420	3278	22616	2890	29205
1875	221	45	246	812	2104	5449	4601	5615	2036	52	0	19	266	3161	17701	71	21200
1876	38	0	25	628	1929	6891	4815	3700	3195	1595	1	29	38	2582	18601	1625	22846
1877	376	129	235	972	2828	2956	5456	1838	6419	383	0	68	505	4035	16669	451	21660
1878	129	111	187	951	2162	6815	7412	4892	6373	322	144	0	240	3300	25492	466	29497
1879	17	142	0	183	3580	6724	7285	5940	5048	610	0	15	159	3763	24997	625	29544
1880	138	485	789	999	2132	7491	4969	5105	1643	1813	14	161	623	3920	19208	1988	25739
1881	0	18	779	304	2540	4470	2970	3695	7113	1357	100	2	18	3623	18248	1459	23347
1882	26	192	450	470	1638	5854	3338	7321	4170	3160	74	0	218	2558	20683	3234	26692
1883	223	31	21	744	1952	6045	4229	6164	4300	111	0	127	254	2717	20738	238	23947
1884	27	140	274	847	3016	5267	3988	5281	1310	1966	0	6	167	4137	15846	1972	22122
1885	118	2	484	686	1671	5297	7964	4055	5266	714	1	151	120	2841	22582	866	26409
1886	7	98	308	284	1964	4117	6013	5511	6949	792	48	5	105	2556	22590	845	26096
1887	431	7	593	715	4612	7438	3283	4819	3669	828	0	0	438	5920	19209	828	26395
1888	103	70	472	1209	1376	4023	6287	4681	2729	282	150	3	173	3057	17720	435	21385
1889	745	378	19	297	1162	5896	7675	4328	4622	465	158	0	1123	1478	22520	623	25745
1890	48	2	16	1081	1590	7637	7764	7019	4962	3114	2	0	50	2687	27382	3116	33235
1891	124	350	720	427	3030	2575	5215	2418	1837	347	16	0	474	4177	12045	363	17059
1892	21	181	223	1189	4692	4117	9548	6825	2704	315	83	48	202	6104	23194	446	29946
1893	114	398	385	1486	1508	4614	7088	4528	5568	1258	52	0	511	3379	21798	1310	26999
1894	0	153	50	1295	1603	4727	4532	5918	6010	2475	70	41	153	2948	21187	2586	26874
1895	19	25	89	1061	2837	2522	8413	5506	2705	230	79	0	44	3987	19146	309	23485
1896	74	4	12	630	2691	2351	5457	1809	4425	210	18	20	78	3333	14042	248	17701
1897	62	46	557	338	2195	3319	5048	4453	4771	1865	60	3	107	3090	17591	1928	22717
1898	96	430	30	681	1883	5236	4897	3130	7266	527	56	21	526	2594	20529	604	24253
1899	330	84	296	638	2079	6226	7328	5728	5096	417	6	15	414	3013	24378	438	28243
1900	125	182	226	462	2577	4902	6211	2604	3905	156	0	12	307	3265	17622	168	21362
1901	284	155	174	330	1834	4290	5445	5850	2231	447	177	47	439	2338	17816	671	21264
1902	2	0	771	845	2379	4992	6313	4916	8965	1028	19	0	2	3995	25186	1047	30229
1903	49	116	165	81	1597	5365	3123	5973	4001	1355	0	0	165	1843	18462	1355	21825
1904	38	357	5	1102	3173	2751	4765	4904	2345	1780	78	2	395	4280	14765	1860	21300
1905	120	318	537	880	2540	5186	5471	10128	3670	1282	0	73	438	3957	24455	1355	30205
1906	101	558	235	40	1963	4459	6848	8223	2080	1459	81	4	659	2238	21610	1544	26050
1907	8	221	671	1177	1580	3869	8384	3524	5517	187	9	32	229	3428	21294	228	25179
1908	127	315	145	153	2948	3786	3780	2443	4293	312	0	0	442	3245	14302	312	18302
1909	26	151	0	1352	1630	8938	4142	5155	2821	1758	0	9	177	2982	21056	1767	25982
1910	7	152	680	349	2066	7262	8022	5092	3920	1622	100	0	159	3095	24296	1722	29272
1911	193	19	404	1397	2468	5876	7284	3921	4919	2673	54	0	211	4269	22000	2726	29207
1912	17	106	866	1230	1831	3831	6739	4894	3072	1296	1310	3	123	3927	18536	2609	25195
1913	1	314	416	188	2273	7705	5446	3879	4471	1529	84	486	315	2877	21501	2099	26792
1914	11	576	106	1666	1755	3148	3942	7259	2807	205	157	7	587	3527	17156	369	21639
1915	19	501	623	397	2783	3153	4715	5701	2617	1066	168	14	520	3803	16185	1248	21757
1916	12	166	11	1774	2430	6106	8633	5081	5844	2205	37	2	178	4215	25664	2244	32301
1917	0	145	147	161	1943	6100	6120	3615	5215	3831	7	0	145	2251	21050	3838	27284
1918	9	14	208	1321	2788	7102	6904	7522	2918	375	17	3	23	4317	24446	395	29181
1919	215	98	56	644	1431	5543	6282	3195	4338	1143	42	0	313	2131	19358	1185	22987
1920	0	190	402	367	1487	5381	4560	6000	8162	1277	0	0	190	2256	24103	1277	27825
1921	328	26	653	1810	4045	4794	9500	4785	3661	884	39	15	353	6508	22740	938	30540
1922	239	19	66	488	1503	7106	6165	5185	5295	463	1	69	258	2057	23751	533	26599
1923	0	299	50	1124	2978	4741	7161	2221	5642	1023	0	0	299	4152	19765	1023	25239
1924	3	38	57	1162	2463	6876	7768	5148	3966	901	945	21	41	3682	23758	1867	29348
1925	7	27	123	1958	1983	5202	4580	6084	5865	973	237	0	34	4064	21731	1210	27039
1926	100	10	746	293	2065	4506	9019	3843	3092	532	4	93	110	3104	20460	629	24302
1927	162	286	594	772	3031	5880	4918	3911	5816	752	171	2	448	4397	20525	924	26295

1928	251	137	28	802	2071	4924	6049	5222	3787	3261	79	0	388	2901	19982	3340	26610
1929	469	40	424	855	2243	4719	5672	3479	3714	5532	22	102	509	3522	17584	5656	27270
1930	109	153	550	478	1534	4364	3449	4738	3689	1396	424	25	262	2562	16240	1845	20909
1931	0	78	297	699	2504	4707	7122	3951	4767	994	109	15	78	3500	20547	1118	25242
1932	11	66	97	693	2032	6459	3337	5791	3998	1142	1236	396	77	2822	19585	2774	25258
1933	196	55	7	1116	1758	5757	5984	4382	2773	1461	36	6	251	2881	18896	1503	23531
1934	200	668	4	625	2130	4605	5856	5229	4302	1642	90	95	868	2759	19992	1827	25446
1935	106	263	88	195	2430	6279	3896	7894	4798	180	24	21	369	2713	22867	225	26174
1936	17	121	407	806	2669	5139	5975	4608	5333	1196	4	82	138	3882	21055	1282	26357
1937	0	582	3	390	2534	2852	4536	6074	3965	3075	198	16	582	2926	17427	3289	24225
1938	15	95	70	509	4609	8615	6771	5429	4620	826	21	0	110	5188	25435	847	31580
1939	0	182	68	73	2281	5443	6367	4604	4558	1176	28	0	182	2422	20972	1204	24780
1940	2	449	1134	327	2298	4452	6326	3987	3724	43	84	34	451	3759	18489	161	22859
1941	42	58	105	807	3678	4068	3926	5426	4327	1661	172	7	100	4590	17747	1840	24277
1942	55	209	617	1653	2250	5184	3485	3334	4919	486	3	0	264	4520	16922	488	22195
1943	218	342	135	1733	1587	7271	3808	5086	5409	338	8	2	560	3455	21574	348	25937
1944	234	117	469	1226	2172	5071	4336	3625	5767	686	31	0	351	3867	18799	717	23734
1945	196	282	75	1330	2608	3853	5098	6348	3996	2382	0	4	478	4013	19294	2386	26172
1946	0	144	248	1490	2038	4337	6284	3723	4183	2709	112	0	144	3776	18527	2821	25268
1947	12	4	500	422	1303	2613	6340	3703	4543	1422	55	9	16	2225	17199	1485	20925
1948	8	91	214	1644	2440	4741	8053	4206	3013	1763	640	0	99	4298	20013	2403	26813
1949	41	230	60	2352	2609	4970	5607	5188	3354	1966	0	12	271	5021	19119	1978	26389
1950	6	202	244	349	2162	9233	5572	6946	4315	989	4	6	208	2755	26066	999	30027
1951	14	11	227	486	1892	5289	6415	3795	2639	853	258	0	25	2605	18138	1111	21879
1952	0	162	511	1596	4320	4805	5856	5293	5643	1206	196	1	162	6427	21597	1403	29589
1953	213	30	471	534	2066	4028	6758	2406	4463	835	5	6	243	3071	17655	846	21815
1954	96	126	31	316	2702	7280	7871	3033	2230	533	0	0	222	3049	20414	533	24218
1955	38	25	312	462	2182	5217	9759	5803	2600	420	37	21	63	2956	23379	478	26876
1956	92	12	360	938	4164	7053	4426	4327	3108	2555	263	41	104	5462	18914	2859	27339
1957	993	105	175	69	737	3963	5607	5430	1240	460	2	91	098	981	16240	471	18789
1958	132	120	189	1030	1905	5567	4259	9059	3495	1272	6	61	252	3124	22380	1339	27095
1959	963	19	629	860	1351	4060	4885	2621	2873	3452	0	0	982	2840	14438	3452	21712
1960	0	45	460	43	2543	2571	5967	3173	6856	876	0	0	45	3046	18567	876	22534
1961	69	393	333	302	2173	3989	4670	5436	2644	1342	16	17	462	2808	16739	1375	21384
1962	223	148	98	658	2217	5191	4615	5471	2745	734	0	7	371	2973	18022	741	22107
1963	19	1	377	855	3275	4068	6043	7288	2994	1173	145	23	20	4507	20393	1341	26261
1964	0	28	113	988	1605	5241	9505	4569	5507	1081	17	0	28	2706	24822	1098	28654
1965	0	159	444	473	1926	4566	6982	7433	2561	229	394	0	159	2843	21542	623	25167
1966	395	35	4	310	2010	3178	7372	6885	3026	538	113	39	430	2324	20461	690	23905
1967	15	0	1129	549	1947	5543	6267	2376	3651	1536	12	0	15	3625	17837	1548	23025
1968	102	26	196	213	1347	4651	6054	4477	3583	3837	11	5	127	1756	18765	3853	24502
1969	64	32	405	606	2905	5042	5513	4331	4119	494	247	0	96	3916	19005	741	23757
1970	148	82	27	1362	1166	4988	6576	3764	5267	484	32	0	230	2555	20595	516	23895
1971	103	31	282	1703	1707	6913	5206	4189	2991	3639	278	0	134	3692	19299	3916	27042
1972	33	198	155	605	1912	3687	5344	2444	4299	584	95	0	230	2672	15774	679	19356
1973	103	133	100	800	2219	5591	3219	4292	4812	2808	253	26	236	3119	17914	3086	24356
1974	208	0	430	1671	2312	3640	8094	6604	4478	1864	12	49	208	4413	22816	1924	29361
1975	25	56	50	549	2071	6506	7434	2093	4921	1242	0	9	81	2670	20954	1251	24955
1976	50	216	26	1047	1835	4978	5193	5663	2066	1099	31	0	266	2908	17899	1130	22204
1977	0	3	94	1860	2173	3560	4457	5830	2948	2316	363	79	3	4127	16795	2758	23683
1978	45	56	138	662	2164	3060	5845	2792	3311	471	157	20	101	2964	15007	648	18720
1979	66	141	12	795	1175	2273	6698	3657	3518	3628	165	653	207	1982	16146	4446	22781
1980	28	216	248	599	2128	3801	7286	6463	2623	1091	1	29	244	2975	20173	1121	24513
1981	290	107	241	1869	2215	3246	7911	3840	3384	140	28	266	397	4325	18381	434	23537
1982	0	81	516	1081	1394	3739	7416	2134	3073	513	229	14	81	2990	16362	756	20190
1983	128	36	167	424	2234	4676	7515	3154	5165	938	0	216	164	2825	20510	1154	24653
1984	340	128	97	1134	3466	5500	8316	3129	6215	1287	34	44	468	4697	23160	1364	29689
1985	8	156	143	282	2796	4606	9040	2936	4101	1915	0	202	164	3221	20683	2117	26185
1986	5	50	30	772	2642	4523	5597	4468	4957	2153	161	101	55	3444	19545	2415	25459
1987	23	213	463	699	1775	5243	7660	9144	4595	1506	62	29	235	2937	26642	1597	31412
1988	37	431	337	854	1653	2982	7359	9170	4961	384	138	21	468	2844	24472	543	28327
1989	92	206	152	106	3138	4922	6593	3097	7208	737	219	129	298	3395	21820	1085	26598
1990	3	428	597	859	3104	4575	5513	4785	4068	1157	0	0	431	4560	18941	1157	25089
1991	204	135	229	612	1719	6822	6826	5132	8288	494	41	257	339	2560	27068	792	30759

1992	20	74	3	640	1947	3676	6177	4527	2221	1026	31	54	94	2590	16601	1111	20395
1993	202	251	272	1282	2123	4661	8226	5369	3179	2056	156	5	453	3677	21435	2217	27782
1994	355	288	243	1262	2229	3128	4067	4275	2859	630	29	32	643	3734	14329	691	19397
1995	75	138	99	307	2084	6157	7458	5233	6797	909	668	81	213	2490	25645	1658	30006
1996	323	67	86	327	3225	2916	9742	6257	2817	927	0	0	390	3638	21732	927	26687
1997	112	133	389	744	1375	5809	4735	4971	4495	246	111	359	245	2508	20010	716	23479
1998	19	56	1050	1070	1710	5107	8446	8521	5983	1898	76	0	75	3830	28057	1974	33936
1999	3	0	27	785	3939	4936	7934	8111	3090	2191	20	14	3	4751	24071	2225	31050
2000	25	301	155	890	3177	6892	5979	4236	4094	456	196	0	326	4222	21201	652	26401
2001	21	50	238	654	3274	4733	4045	4014	4145	3032	51	12	71	4166	16937	3095	24269
2002	223	4	349	1682	1321	2591	8515	4134	3399	605	46	5	226	3352	18639	656	22874
2003	97	773	688	1545	1485	5695	6704	3520	3636	2388	23	166	870	3718	19555	2577	26720
2004	132	26	128	1229	2271	3639	7557	2794	3863	2373	30	0	158	3628	17853	2403	24042
2005	180	90	530	1041	1939	3488	5443	5573	1745	2781	7	0	270	3510	16248	2788	22817
2006	1	53	77	724	2247	3609	5817	2955	4591	1155	126	59	54	3048	16972	1340	21414
2007	1	388	256	796	1441	3981	5712	5589	4181	604	23	2	388	2493	19463	629	22974
2008	331	72	448	896	1466	5163	6786	7168	2475	701	33	15	403	2810	21592	749	25554
2009	5	15	314	647	2432	3805	5106	5375	1845	2520	15	4	20	3393	16131	2539	22082
2010	4	17	160	1070	3015	5553	6532	4369	4421	828	138	8	21	4245	20875	974	26115
2011	28	73	267	1052	2496	4117	6035	5092	4090	211	96	17	101	3815	19334	324	23574
2012	67	54	90	1171	1517	5657	6222	2774	3844	1361	81	3	121	2778	18497	1445	22841
2013	20	177	81	864	2353	4419	5868	4342	3126	2173	101	1	197	3298	17754	2275	23525
2014	6	202	147	130	2801	5461	4091	5335	4019	137	10	5	208	3078	18906	152	22344
2015	66	68	291	986	2545	5250	3837	5949	3617	422	120	31	134	3822	18653	573	23182
2016	207	71	989	1014	1953	5891	7120	2038	5068	1287	0	1	278	3956	20117	1288	25639

 Values are up to 1 decimal

MEAN	110	149	286	833	2250	4959	6052	4826	4152	1277	99	39	260	3370	19991	1415	25038
P-Ann	4	5	11	33	89	198	241	192	165	51	3	1	10	134	798	56	1000
SD	156	149	252	471	735	1377	1570	1613	1473	975	189	89	211	900	3045	1007	3298
CV	14161000	880	566	326	277	259	334	354	763	19102278	811	267	152	711	131		

Table 10:GANGETIC WEST BENGAL SUBDIVISION, AREA 66228 SQ.KM 2.30 PER, 11 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306
 stations and 2013-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	48	930	903	1995	2969	3367	3880	3099	1712	0	6	48	3828	13315	1718	18909
1872	9	266	51	262	697	2618	2044	2412	1907	2867	19	27	275	1010	8981	2913	13179
1873	13	0	475	475	999	1054	3945	2844	1222	319	76	62	13	1949	9065	457	11483
1874	322	816	208	241	734	2815	1686	2556	2407	2671	132	0	1138	1183	9464	2803	14587
1875	266	66	88	628	1558	3155	3069	2997	2114	804	0	1	332	2274	11335	805	14746
1876	0	22	383	303	817	2530	4287	3449	2371	1812	35	0	22	1502	12637	1847	16008
1877	531	617	294	540	1119	2044	3091	4078	1527	733	4	256	1148	1953	10740	993	14833
1878	72	150	371	587	1577	1324	2420	3967	2905	961	452	106	222	2535	10616	1519	14892
1879	0	325	10	37	663	1701	2620	2439	2551	969	0	102	325	710	9311	1071	11417
1880	50	756	190	368	1468	3424	2747	4440	2769	1839	89	18	806	2026	13380	1945	18158
1881	6	10	642	333	1503	3095	5033	4659	1548	1169	6	34	16	2478	14335	1209	18038
1882	0	324	291	426	1574	2498	2645	3061	2257	2061	279	0	324	2291	10461	2340	15416
1883	198	148	532	599	856	2630	4066	3226	1424	170	30	353	346	1987	11346	553	14232
1884	22	136	47	440	1236	2068	3804	1988	2754	1537	0	5	158	1723	10614	1542	14037
1885	13	647	92	123	698	2464	3715	6157	2552	843	36	262	660	913	14888	1141	17602
1886	46	2	720	82	1500	2107	3265	2636	3553	1183	54	10	47	2302	11561	1247	15158
1887	256	0	687	407	1750	1772	3635	2868	2023	1141	207	1	256	2844	10298	1349	14747
1888	229	397	101	454	851	1175	4015	5631	1735	473	305	1	626	1406	12556	779	15367
1889	201	480	53	212	800	2879	2334	2384	1843	1071	1208	1	681	1065	9439	2280	13466
1890	20	5	189	167	1094	3623	3201	2004	2519	2212	100	10	25	1450	11347	2322	15144
1891	62	422	1260	37	1915	1541	3297	3888	2155	130	343	0	484	3212	10881	473	15050
1892	0	73	0	344	801	2347	2156	1722	2142	1028	869	0	73	1145	8367	1897	11482
1893	196	1141	657	455	3332	4498	3139	2624	3259	1056	18	0	1337	4444	13520	1074	20375
1894	3	132	37	313	386	2897	3979	3346	1686	1380	824	37	135	736	11907	2241	15020
1895	58	21	114	529	954	2676	2387	2038	1774	975	4	7	79	1597	8875	986	11537
1896	15	49	44	94	1289	3277	3285	2628	1710	1	12	0	64	1427	10900	13	12403
1897	11	320	623	502	1139	2801	2899	3015	1930	2003	39	6	331	2264	10645	2048	15288
1898	74	63	5	257	872	4158	3070	4001	2508	2052	0	4	137	1134	13737	2056	17064
1899	252	116	20	497	1860	3058	4848	2557	2630	1017	0	8	368	2377	13092	1025	16863
1900	55	243	157	668	1239	2088	2870	3216	5968	513	1	57	298	2064	14142	571	17074
1901	436	626	94	697	959	1850	2963	2954	2712	714	881	0	1062	1750	10478	1595	14886
1902	0	22	376	1021	1414	1372	3800	2631	2459	560	143	135	22	2810	10262	838	13933
1903	177	329	314	278	709	2144	1889	2613	2657	2183	104	0	506	1301	9303	2287	13397
1904	0	203	293	199	1564	3200	4102	2830	1572	552	56	2	203	2056	11704	610	14572
1905	381	518	1073	732	1523	699	5323	2803	2809	1429	0	133	898	3328	11634	1562	17423
1906	383	1177	632	7	937	1910	3152	2589	2142	1267	56	11	560	1576	9793	1324	14252
1907	0	298	950	444	826	3470	2216	2811	2336	77	0	234	298	2220	10832	311	13662
1908	278	34	6	66	1178	3548	3695	3059	1711	206	0	0	312	1250	12012	206	13781
1909	113	56	2	1534	856	3299	2427	5436	2808	857	23	190	169	2391	13970	1070	17601
1910	125	23	93	558	971	2395	3084	2285	2328	1685	1	0	148	1622	10092	1686	13548
1911	3	8	342	352	1096	3152	1708	3064	2650	798	115	0	11	1790	10574	913	13288
1912	14	306	616	589	976	1995	3829	2492	1339	902	851	0	320	2181	9655	1752	13908
1913	15	1206	360	75	1763	5002	4754	2938	1881	1324	165	65	1221	2198	14574	1554	19548
1914	0	372	192	511	2379	2427	3887	2173	1653	461	0	247	372	3082	10140	708	14302
1915	39	108	818	224	1344	2233	2564	2544	2552	1032	642	0	147	2386	9893	1674	14099
1916	24	20	3	470	526	4047	1590	3312	3493	3222	900	4	44	998	12442	4126	17611
1917	0	326	156	257	1768	3982	3631	2337	2005	4146	24	0	326	2181	11955	4170	18632
1918	21	0	174	425	1285	4355	1870	3794	1894	83	2	15	21	1884	11913	100	13918
1919	465	276	87	473	1655	3322	2819	4415	1679	449	388	0	741	2215	12235	837	16028
1920	0	339	1504	164	841	1191	3815	3219	1774	1662	3	0	339	2509	9999	1665	14512
1921	364	73	116	724	557	2577	2891	4173	1933	684	0	0	437	1397	11574	684	14092
1922	59	52	33	177	544	5834	2404	4025	2220	791	75	25	111	754	14483	891	16239
1923	0	1172	31	196	934	1763	3318	4699	1013	628	105	14	1172	1161	10793	747	13873
1924	44	32	4	384	566	1811	3174	2497	2828	855	736	0	76	954	10310	1591	12931
1925	163	131	384	699	911	1540	3238	2484	1531	2128	63	10	294	1994	8792	2201	13282
1926	348	66	1146	183	728	1257	5675	4232	2785	1026	1	109	413	2057	13949	1136	17556
1927	348	382	89	218	1249	3060	4027	2530	1579	474	40	0	730	1556	11196	514	13996

1928	163	48	36	532	1193	4280	4804	3414	1372	1882	2	1	210	1761	13870	1885	17726
1929	517	213	412	547	442	2309	4324	3492	1480	2504	0	318	730	1401	11605	2821	16558
1930	4	147	223	150	903	2226	4412	3060	2609	546	1139	0	151	1276	12307	1685	15419
1931	40	962	337	183	1149	1661	4269	2940	2237	2107	550	41002	1669	11107	2661	16439	
1932	0	189	42	385	2360	1442	3406	2858	1901	767	1187	0	189	2787	9607	1954	14536
1933	228	466	21	737	1683	3053	3945	4843	2906	1894	22	4	693	2441	14747	1919	19802
1934	42	214	4	380	516	2113	2065	2815	2033	819	107	229	255	900	9026	1155	11337
1935	112	266	401	363	364	2230	2778	3101	1777	80	0	4	378	1128	9886	84	11476
1936	98	159	302	216	2126	3435	3399	2905	2824	878	83	48	257	2644	12563	1009	16473
1937	01277	83	130	1467	2781	2703	2888	3329	1317	5	51277	1680	11701	1327	15985		
1938	190	333	9	40	2299	1870	2525	3799	1736	827	146	0	523	2348	9930	972	13773
1939	65	253	164	227	763	2450	3760	4863	2647	2134	71	18	318	1154	13720	2223	17415
1940	0	233	1224	200	736	2205	2642	4804	2350	600	45	29	233	2160	12001	674	15068
1941	323	5	2	208	779	4144	4353	3756	1760	2491	778	0	328	989	14012	3269	18599
1942	24	155	191	704	822	1579	3719	3827	4081	2090	177	0	179	1717	13206	2267	17369
1943	429	346	121	1011	473	2195	4384	3257	2602	1015	0	0	775	1605	12438	1015	15833
1944	592	210	349	620	366	1335	4109	4737	1669	1048	0	0	802	1335	11850	1048	15035
1945	216	138	93	728	1251	2098	1748	2586	2375	3149	46	3	354	2072	8807	3198	14431
1946	0	57	127	1340	1259	2664	3285	3486	3087	2238	269	0	57	2726	12522	2507	17812
1947	53	153	380	115	883	1564	3651	3061	2564	1026	10	440	206	1378	10840	1476	13900
1948	1047	402	484	462	1385	1931	2719	3484	2634	1523	1470	01449	2331	10768	2993	17541	
1949	115	19	363	1519	2509	2626	3644	3238	2148	1093	9	0	134	4391	11656	1102	17283
1950	0	90	160	175	1028	4060	3601	3683	1856	965	1055	0	90	1363	13199	2020	16673
1951	0	0	689	170	716	2303	2934	2403	2155	1496	366	0	0	1575	9795	1862	13232
1952	9	21	314	822	702	1780	4211	3121	2249	2118	26	0	30	1837	11361	2144	15373
1953	301	225	32	269	532	2845	3441	3766	2539	769	824	0	526	833	12591	1593	15543
1954	89	59	4	62	823	1784	2036	2974	2605	672	0	407	148	889	9399	1079	11514
1955	21	22	88	346	469	1901	3570	2721	1849	1604	1007	1	43	903	10041	2611	13599
1956	24	350	668	213	1700	3335	2786	3280	4160	1483	131	55	374	2581	13561	1669	18185
1957	531	272	86	37	81	2112	3425	2398	2854	321	0	0	803	204	10789	321	12117
1958	138	203	210	335	632	845	2862	2135	3760	1042	108	0	341	1177	9602	1150	12270
1959	274	119	80	350	698	1849	2647	3245	3959	3942	0	5	393	1128	11700	3947	17168
1960	9	3	357	25	1303	1298	3747	2992	2619	1033	12	0	12	1685	10656	1045	13398
1961	97	812	42	48	882	3452	2070	2858	4007	1138	10	4	908	972	12387	1152	15420
1962	115	143	54	694	876	1937	2508	2547	2460	1573	0	4	258	1624	9452	1577	12911
1963	4	40	23	560	996	2812	2634	2058	2636	1231	83	2	44	1579	10140	1315	13079
1964	12	46	142	402	829	1233	3826	2114	2433	1392	132	0	58	1373	9606	1524	12561
1965	5	424	543	354	375	2319	3138	2893	1769	1155	1	7	429	1272	10118	1163	12982
1966	351	34	42	267	547	2881	1824	2523	1977	1184	435	66	385	856	9205	1685	12131
1967	566	82	517	756	488	1486	2215	4304	4116	1283	0	35	647	1761	12121	1318	15848
1968	69	79	92	99	249	3581	3951	4744	924	1207	610	3	148	440	13200	1820	15608
1969	32	48	188	886	1023	1384	3130	3680	3171	468	242	5	80	2097	11365	715	14257
1970	110	157	352	98	759	2990	2987	2301	4933	2232	258	0	267	1209	13211	2490	17177
1971	251	162	73	1802	1314	2651	4874	5432	2922	2021	321	0	413	3189	15878	2342	21823
1972	14	427	23	152	221	1304	2630	5339	1997	498	38	0	441	396	11270	536	12643
1973	19	95	771	236	1273	2263	2732	3115	4499	1942	242	320	114	2280	12609	2504	17507
1974	29	0	844	386	952	1014	4754	4153	2976	1464	9	0	29	2182	12897	1472	16581
1975	91	257	112	515	580	1419	3535	3094	3033	1138	302	0	348	1207	11081	1440	14076
1976	0	310	244	490	1342	1361	2590	2535	2168	581	56	0	310	2076	8654	637	11677
1977	110	189	87	748	1554	3466	4533	3036	1419	1031	501	439	299	2389	12454	1971	17113
1978	19	209	582	620	1103	2515	2448	3422	5640	1494	108	73	228	2305	14025	1675	18233
1979	172	260	90	269	252	2598	2697	1899	1839	480	105	172	432	611	9033	757	10832
1980	133	208	690	148	1289	2879	3781	2673	1509	1351	5	6	341	2127	10842	1362	14671
1981	198	679	621	1062	2592	2369	4379	2744	2092	100	29	751	877	4275	11583	880	17616
1982	20	482	834	678	345	1947	2465	3628	1007	305	131	0	502	1857	9047	436	11841
1983	126	409	546	551	1119	1914	2088	3709	2100	2247	32	128	535	2216	9811	2407	14968
1984	175	12	12	560	693	5380	3346	4499	1967	975	0	0	187	1265	15192	975	17619
1985	89	218	109	169	914	2924	2470	3530	1922	1359	11	0	307	1192	10846	1370	13715
1986	90	88	72	572	1335	1976	3119	1926	4625	1605	1020	189	178	1979	11646	2814	16617
1987	15	59	226	618	1048	1644	3654	4542	2878	239	411	49	74	1892	12718	699	15383
1988	15	193	575	397	1140	3971	3237	2710	2035	845	327	2	208	2112	11953	1174	15447
1989	2	45	117	36	1728	2805	3737	2422	3272	982	63	179	47	1881	12236	1224	15387
1990	0	614	1188	1002	1491	3034	3706	2119	3252	1833	551	34	614	3681	12111	2418	18824
1991	271	77	469	380	876	2077	6680	2958	2504	1171	1101005	348	1725	14219	2286	18578	

1992	127	494	10	179	1466	2888	4092	2131	1954	587	57	11	621	1655	11065	655	13996
1993	2	24	377	913	1398	3796	3006	3700	4366	853	422	0	26	2688	14867	1275	18857
1994	183	567	38	816	1121	3528	3219	3209	1681	768	104	0	750	1975	11637	872	15234
1995	184	259	92	70	2159	1745	3469	3324	4009	1081	1461	67	443	2321	12547	2609	17919
1996	197	223	138	392	731	2943	2663	4900	1469	1575	40	0	420	1261	11975	1615	15271
1997	199	245	464	885	939	2339	4128	3748	2557	354	221	333	444	2288	12772	908	16412
1998	427	442	1371	545	667	1329	2944	2590	2592	2535	625	0	869	2583	9455	3160	16067
1999	0	0	5	109	2439	2305	3726	3716	4410	2326	96	0	0	2553	14157	2422	19132
2000	44	368	58	495	1742	2240	3321	2217	3456	1337	29	0	412	2295	11234	1365	15307
2001	0	5	313	428	1901	4122	2901	2377	2447	1824	109	0	5	2642	11847	1932	16427
2002	349	14	225	788	1078	3490	2834	3070	3100	922	469	0	363	2091	12494	1391	16339
2003	3	174	653	200	840	2819	2858	2985	1472	3647	34	97	176	1693	10134	3778	15781
2004	58	14	137	570	745	2819	2456	3608	2432	2050	0	10	72	1452	11315	2060	14898
2005	303	132	781	288	982	1851	3658	2386	2470	3884	0	47	435	2051	10365	3931	16782
2006	0	0	62	443	1232	1999	4516	3213	3787	600	59	0	0	1737	13515	659	15911
2007	16	625	641	346	883	2299	6555	3454	4620	625	287	0	641	1870	16928	912	20351
2008	769	136	91	533	1076	4554	3372	2768	2439	874	0	0	905	1700	13132	874	16612
2009	37	18	238	9	2692	727	2725	3305	3081	797	115	6	55	2939	9838	917	13750
2010	11	154	85	149	1465	2104	1789	1555	1947	965	60	348	165	1699	7395	1373	10632
2011	33	40	485	907	1286	4542	1935	4242	2654	297	17	0	73	2678	13373	314	16438
2012	376	147	50	588	599	1400	3073	2450	2240	614	518	240	523	1237	9163	1372	12295
2013	22	127	72	495	2431	2540	2619	4129	2232	3458	0	0	149	2998	11520	3458	18125
2014	6	507	207	17	1388	1871	2958	3064	1947	543	0	3	513	1612	9840	546	12511
2015	126	61	200	904	663	2534	6122	2699	1371	298	19	41	187	1767	12726	358	15038
2016	93	458	162	59	1291	1770	3294	4315	2046	673	180	0	551	1512	11425	853	14341

 Values are up to 1 decimal

MEAN	131	244	304	433	1131	2514	3305	3220	2484	1262	213	60	375	1868	11526	1537	15307
P-Ann	8	15	19	28	73	164	215	210	162	82	13	3	24	122	752	100	1000
SD	171	267	320	316	559	956	928	868	890	824	326	138	331	755	1740	868	2210
CV	13051094	1053	731	494	380	280	269	358	653	15242292	883	404	150	565	144		

Table 11: ORISSA SUBDIVISION, AREA 155842 SQ.KM 5.41 PER, 13 STN
 Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	227	205	1491	612	2062	3198	1809	2420	311	0	6	227	2308	9489	317	12341
1872	0	131	16	90	356	4938	3215	3194	2188	2736	634	57	131	461	13535	3427	17555
1873	0	0	355	240	491	700	3553	2935	1614	1634	116	238	0	1086	8802	1988	11876
1874	206	285	107	31	527	2926	3005	4196	1730	2167	619	20	491	665	11857	2806	15819
1875	354	0	26	262	690	2063	4736	2619	3789	1662	0	0	354	978	13207	1662	16201
1876	0	18	173	274	671	1129	3461	2373	3194	1478	1	0	18	1118	10157	1479	12772
1877	291	503	462	540	1048	1894	2813	2714	1919	720	9	37	794	2050	9340	766	12950
1878	19	35	177	324	1083	756	2697	3397	2379	1657	573	393	54	1584	9229	2623	13490
1879	0	52	98	24	1564	1367	2868	3882	2665	946	167	153	52	1685	10782	1266	13786
1880	18	259	29	250	777	3464	3828	4699	2582	1549	809	24	277	1056	14573	2381	18288
1881	0	2	460	177	592	2550	4094	2981	2285	1448	157	43	2	1229	11910	1648	14789
1882	52	45	24	421	906	1645	4772	2984	2130	1096	617	87	97	1351	11531	1800	14778
1883	8	132	380	127	437	4651	3848	2503	2717	820	357	246	140	944	13719	1423	16226
1884	13	234	77	296	405	3247	3686	2757	3374	1040	52	111	246	778	13064	1203	15292
1885	9	618	168	132	1004	2547	2770	2159	1460	634	521	367	627	1304	8936	1522	12388
1886	38	11	561	61	998	2318	3274	2809	3105	1971	580	372	49	1620	11506	2923	16097
1887	45	0	101	136	746	1795	3925	3467	1748	873	241	0	45	983	10935	1114	13077
1888	293	295	117	94	540	900	2468	5049	1904	360	723	0	588	751	10321	1083	12743
1889	0	37	2	118	466	2836	3391	4300	1710	2536	1848	17	37	586	12237	4401	17261
1890	2	5	455	195	522	3287	4254	3099	3145	1504	449	78	7	1172	13785	2030	16995
1891	2	149	923	118	1109	585	2985	4206	4129	460	772	0	151	2150	11905	1232	15437
1892	0	10	0	63	240	2640	4587	1940	2773	1491	222	0	10	303	11940	1713	13966
1893	335	530	838	293	2655	2072	2967	3645	4548	1284	287	0	865	3786	13232	1570	19454
1894	41	107	19	342	124	2325	5044	2409	2005	1356	601	0	148	485	11783	1957	14372
1895	5	73	35	457	476	4626	3580	3947	1929	1096	130	0	78	968	14082	1226	16354
1896	0	0	184	48	509	3806	4477	5178	1918	0	60	0	0	741	15379	60	16180
1897	51	295	753	398	393	1770	3079	3771	2483	1823	447	14	346	1544	11103	2284	15277
1898	0	104	6	244	592	1762	2747	3103	2410	1349	62	42	104	842	10022	1452	12421
1899	17	24	2	1000	743	2128	3117	2144	1036	1287	0	4	41	1745	8425	1290	11502
1900	38	88	209	381	728	2279	2385	4801	3984	1405	3	16	126	1318	13449	1424	16317
1901	389	748	119	511	546	551	2965	3742	2056	718	1047	0	1137	1176	9314	1765	13392
1902	30	1	84	872	472	870	4698	3597	1811	299	89	278	31	1428	10976	666	13101
1903	194	186	69	265	606	1599	3779	2640	2858	2305	330	103	380	940	10876	2738	14934
1904	1	156	193	112	896	3892	3287	3568	1975	851	0	21	157	1201	12722	872	14952
1905	258	205	550	424	901	798	3473	2873	3946	310	4	1	463	1875	11090	315	13743
1906	216	870	441	5	434	1954	3690	2725	2526	928	90	343	1086	880	10895	1361	14222
1907	1	215	644	771	305	2432	2001	5651	1950	260	166	274	216	1720	12033	700	14670
1908	327	16	88	47	470	2150	3528	5822	2071	516	0	0	343	605	13571	516	15035
1909	39	75	33	1299	318	2838	4367	2220	2312	336	20	506	114	1650	11737	862	14362
1910	97	17	15	416	455	2318	3952	4543	2677	2171	49	0	114	886	13490	2220	16710
1911	0	27	285	146	533	3526	1580	4411	2624	712	284	19	27	963	12141	1015	14147
1912	12	528	126	370	282	1061	3641	4472	2165	622	477	0	540	778	11339	1099	13755
1913	19	616	106	96	841	2285	4381	3769	1468	1219	374	19	635	1043	11903	1612	15193
1914	0	238	161	451	1772	2947	4276	3171	3196	103	0	58	238	2384	13590	161	16373
1915	98	218	324	163	834	1284	2075	3332	2691	1274	1485	0	316	1321	9382	2759	13778
1916	0	44	1	321	436	2913	2361	3421	1788	2327	630	0	44	757	10483	2957	14242
1917	2	707	296	158	657	2793	3190	3188	2773	3424	169	2	708	1111	11943	3595	17359
1918	122	0	229	208	1184	4085	2260	3453	1666	68	60	25	122	1621	11464	153	13360
1919	626	382	285	215	649	3322	3049	5257	1438	880	1052	491	1008	1149	13066	1980	17204
1920	0	145	558	253	372	1637	5607	2957	1631	408	3	0	145	1183	11832	411	13571
1921	488	23	5	225	77	2084	3239	2539	3263	729	201	0	511	307	11125	930	12873
1922	149	7	0	75	413	2164	4699	3014	3700	500	272	0	156	488	13577	772	14992
1923	0	799	111	150	439	1023	2784	3593	1881	1150	1016	20	799	700	9281	2186	12966
1924	296	79	36	86	799	966	2206	3036	2290	1024	1653	0	375	921	8498	2677	12471
1925	11	0	48	420	1061	3597	4473	4002	1949	2086	16	102	11	1529	14021	2204	17764
1926	338	105	837	354	710	634	2874	5870	2800	769	0	6	443	1901	12178	775	15297
1927	25	314	101	75	467	2582	4134	4281	1962	1015	232	0	339	643	12958	1247	15187

1928	59	41	63	643	502	2356	4995	2534	2114	2345	49	9	100	1208	11999	2403	15710
1929	175	216	47	290	289	1704	5166	4525	1990	2322	0	179	391	626	13385	2501	16903
1930	0	149	95	352	327	1833	4143	3186	2801	378	1596	76	149	774	11962	2050	14936
1931	51	337	256	165	269	1137	2514	5137	2088	2423	475	8	388	690	10876	2905	14860
1932	0	374	120	174	790	962	5030	2500	2586	474	1310	0	374	1084	11078	1784	14320
1933	167	604	72	204	1368	3071	3999	4925	2968	1425	204	142	771	1644	14963	1770	19149
1934	0	16	36	48	108	2262	3611	4479	2776	923	117	39	16	192	13127	1079	14415
1935	11	97	135	308	96	1430	5768	2068	2750	181	0	15	108	539	12016	196	12859
1936	167	434	83	88	1710	5076	3787	3815	2302	1855	161	48	601	1881	14980	2064	19526
1937	0	940	219	673	603	2461	4107	2681	2892	889	4	2	940	1495	12141	895	15471
1938	77	224	139	156	1030	2276	2574	3162	2233	1973	271	0	301	1325	10245	2244	14115
1939	75	108	303	216	231	1966	4472	4248	2281	1896	149	39	183	750	12967	2084	15983
1940	0	289	771	259	1321	3211	6037	4052	1237	934	42	100	289	2351	14537	1076	18253
1941	284	5	77	179	542	3012	3520	2840	1955	1541	585	0	289	798	11327	2126	14540
1942	110	182	13	314	211	2025	4247	3645	2994	675	932	9	292	538	12911	1615	15357
1943	827	29	117	661	544	1876	5004	4475	3039	668	147	0	856	1322	14394	815	17387
1944	344	748	758	365	233	1403	5471	4533	1524	1536	65	0	1092	1356	12931	1601	16980
1945	230	22	1	488	537	1601	4233	2873	3837	1740	36	54	252	1026	12544	1830	15652
1946	11	9	65	870	808	2438	2930	4136	2147	1414	580	117	20	1743	11651	2111	15524
1947	209	200	138	141	295	2139	3791	4127	1802	1432	83	672	409	574	11859	2187	15028
1948	133	408	138	268	625	2150	3016	3683	2382	806	716	13	541	1031	11231	1535	14338
1949	32	74	34	210	601	1304	2863	3460	2688	2779	12	0	106	845	10315	2791	14057
1950	0	211	639	11	705	2842	3659	3084	2046	654	1443	0	211	1355	11631	2097	15294
1951	16	0	790	321	656	2040	3750	3394	1786	1680	464	0	16	1767	10970	2144	14897
1952	1	83	200	342	332	1889	3492	3970	3194	1806	56	1	84	874	12545	1863	15366
1953	371	57	1	39	326	2417	2252	5019	2552	610	681	0	428	366	12240	1291	14324
1954	6	47	126	89	315	1575	2189	2667	3667	1694	0	146	52	530	10098	1840	12521
1955	14	0	68	271	707	2062	2033	3799	3544	3146	862	2	14	1046	11438	4010	16508
1956	2	427	80	207	1047	3679	4500	4409	3243	2171	118	0	429	1334	15831	2289	19883
1957	171	282	324	85	181	1382	2997	4206	1909	341	0	0	453	590	10494	341	11878
1958	109	335	135	217	446	1074	4329	2715	3545	2162	639	0	444	798	11663	2801	15706
1959	189	44	34	211	562	2136	3594	3186	2698	2314	24	27	233	807	11613	2364	15018
1960	42	5	325	145	421	2032	3959	4334	1945	1112	70	165	47	891	12270	1347	14555
1961	200	960	10	220	622	2508	3180	3071	4049	1616	112	20	160	852	12808	1748	16568
1962	71	48	198	730	352	1768	4230	2861	2473	1811	52	28	119	1280	11332	1891	14622
1963	0	73	75	463	817	2357	3128	3367	3107	1858	49	2	73	1355	11959	1909	15296
1964	2	259	25	239	561	1429	4280	4871	1977	723	55	0	261	825	12557	778	14421
1965	59	143	518	276	642	1315	4215	2236	2112	1028	12	10	202	1436	9878	1050	12566
1966	478	46	12	292	377	2924	3698	1917	1829	730	661	41	524	681	10367	1432	13004
1967	429	0	752	369	227	2053	3121	3938	2520	251	11	177	429	1348	11632	439	13847
1968	350	244	226	228	235	1688	2972	3023	2739	2205	510	0	594	689	10422	2715	14420
1969	0	4	35	262	679	1558	4928	2745	2248	478	480	122	4	976	11479	1080	13539
1970	123	959	699	245	622	2120	2389	3216	1209	1429	179	0	1082	1566	8934	1607	13190
1971	142	336	30	851	896	3257	2664	3833	1521	2282	29	0	478	1777	11275	2311	15840
1972	0	193	36	193	170	1337	3501	3185	3267	874	356	0	193	399	11290	1230	13112
1973	0	67	409	90	665	1111	4713	3686	2105	1919	154	193	67	1164	11615	2266	15112
1974	0	42	402	162	531	1022	1733	3268	1524	1303	154	0	42	1095	7546	1457	10141
1975	42	243	173	210	227	2235	2446	3957	2312	1232	178	0	285	610	10950	1410	13255
1976	0	135	163	265	492	749	3346	4161	1448	495	370	14	135	920	9704	879	11638
1977	53	56	43	662	1059	1816	3295	3428	2610	598	953	50	109	1764	11149	1601	14623
1978	8	239	325	130	328	1625	3078	3805	1543	972	194	157	246	783	10051	1323	12403
1979	51	191	54	238	157	2188	2447	2443	1622	477	131	88	242	448	8700	696	10087
1980	129	106	336	248	268	3048	4014	2190	3305	928	49	55	235	852	12557	1032	14676
1981	227	175	543	278	802	1774	2493	3760	2914	128	21	69	402	1622	10941	218	13184
1982	52	317	744	318	352	1876	1871	5733	1258	442	65	0	369	1414	10738	507	13028
1983	8	597	227	482	697	1450	2567	3078	2994	912	37	95	605	1406	10089	1044	13143
1984	118	92	18	533	600	3067	3648	4908	1255	593	0	0	210	1151	12878	593	14832
1985	243	393	34	154	594	1646	2508	4161	3321	1608	17	0	636	782	11636	1625	14679
1986	293	466	101	489	780	3094	4346	3291	1788	1671	1188	156	758	1370	12519	3015	17663
1987	187	46	238	246	638	1213	4236	2035	1604	1013	1216	34	233	1122	9088	2263	12706
1988	0	365	325	551	439	2502	3175	2643	2639	747	23	5	365	1315	10959	775	13414
1989	0	7	84	36	785	3569	2839	4217	2012	387	0	22	7	905	12637	409	13957
1990	0	661	982	829	1362	2387	2942	4106	2576	2015	1284	15	661	3173	12011	3314	19159
1991	258	9	306	251	336	1598	5024	5051	1758	849	512	84	267	893	13431	1445	16036

1992	48	140	1	130	758	2371	3970	4436	1969	601	276	1	188	889	12746	877	14701
1993	0	4	46	449	656	2422	3035	3642	3072	706	97	0	4	1151	12171	802	14129
1994	9	240	16	455	576	2690	4989	4497	3229	631	187	0	249	1047	15405	818	17519
1995	421	105	187	117	3137	878	3137	3430	1855	1877	1137	0	526	3441	9300	3014	16280
1996	123	62	26	281	201	1840	2368	2985	1089	459	27	1	185	508	8282	487	9462
1997	204	31	264	693	312	1979	3083	4473	2095	374	219	539	235	1269	11630	1132	14266
1998	246	315	387	279	478	1459	2335	1653	2611	1270	698	0	561	1144	8058	1968	11731
1999	1	2	0	10	1477	2393	2409	3214	2922	2537	184	0	3	1487	10938	2721	15149
2000	0	501	12	315	669	2368	2275	2472	1439	414	19	0	501	996	8554	433	10484
2001	20	16	384	393	1305	3784	5984	3298	1421	1442	386	0	36	2082	14487	1827	18433
2002	205	1	165	141	815	1636	1260	2794	1612	511	132	4	206	1121	7302	647	9276
2003	1	221	235	255	406	1789	3082	3987	2098	2829	206	291	222	896	10956	3326	15400
2004	94	94	75	575	323	2082	2943	3380	1793	1714	87	0	188	973	10198	1800	13160
2005	237	55	225	180	373	1744	3894	1926	3452	2366	148	93	292	778	11016	2607	14693
2006	12	0	386	396	1215	1711	4474	6880	2689	541	235	0	12	1997	15754	776	18539
2007	7	356	96	137	612	3221	2643	4405	4087	778	178	0	363	845	14356	956	16520
2008	456	113	217	180	433	3570	3215	4571	3309	206	118	0	569	830	14665	324	16388
2009	11	0	33	19	837	1012	6623	2960	1673	1113	317	31	11	888	12268	1461	14629
2010	127	61	121	45	1057	1602	2971	2646	2469	1620	461	423	188	1223	9688	2504	13603
2011	3	242	67	579	823	2206	2213	3412	4200	310	0	19	245	1469	12031	329	14074
2012	596	67	27	468	235	1708	3470	4604	2513	694	971	36	662	730	12295	1701	15389
2013	34	81	19	565	639	3207	3954	2672	2275	4112	24	0	115	1223	12108	4136	17582
2014	8	224	349	153	1375	1139	5426	4357	3045	938	1	12	231	1877	13967	951	17027
2015	148	33	86	548	288	2423	3087	2583	2421	270	76	198	181	922	10514	544	12161
2016	21	168	126	69	663	1667	2935	3139	2719	1024	129	6	189	858	10460	1159	12666

 Values are up to 1 decimal

MEAN	109	195	210	302	648	2160	3522	3552	2424	1211	328	62	305	1161	11659	1603	14728
P-Ann	7	13	14	20	44	146	239	241	164	82	22	4	20	78	791	108	1000
SD	150	222	227	239	424	901	982	946	732	760	400	115	273	558	1723	883	2001
CV	137	111	136	107	79	65	41	78	26	62	121	185	78	48	14	55	13

Table 12: JHARKHAND SUBDIVISION, AREA 79638 SQ.KM 2.76 PER, 6 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	51	348	224	934	2700	3454	3610	3280	202	0	60	51	1506	13044	262	14862
1872	35	253	69	312	297	1683	2619	2345	2269	1037	15	29	288	678	8916	1081	10963
1873	19	2	357	125	360	779	4790	3516	2396	83	2	55	21	842	11481	140	12484
1874	237	741	332	60	305	2611	2847	3998	2588	1889	90	0	978	697	12044	1979	15698
1875	407	232	20	179	918	2134	3262	2744	1774	367	0	0	639	1117	9914	367	12037
1876	0	0	43	75	430	2158	4526	3433	1786	1274	0	0	0	548	11903	1274	13725
1877	679	666	360	534	816	1914	2417	4267	1835	588	59	288	1345	1710	10433	935	14423
1878	108	91	298	462	1060	742	3060	3396	2204	313	335	128	199	1820	9402	776	12197
1879	0	252	1	0	261	1687	3437	3607	2338	961	0	4	252	262	11069	965	12548
1880	32	593	31	91	1113	2348	2507	3616	2130	1354	86	23	625	1235	10601	1463	13924
1881	28	33	625	50	621	2119	4715	3931	1394	903	60	0	61	1296	12159	963	14479
1882	3	203	0	182	1057	1931	2794	3295	2497	1145	273	0	205	1239	10517	1418	13380
1883	273	37	633	83	367	2473	4133	2725	2009	74	226	144	310	1083	11340	444	13177
1884	4	57	0	84	512	1319	2736	2536	2515	643	0	27	61	596	9106	670	10433
1885	85	235	208	45	260	2829	3178	4438	2333	479	15	573	320	513	12778	1067	14678
1886	43	4	524	76	970	1856	3136	2874	3013	1874	134	0	47	1570	10878	2007	14504
1887	550	0	73	93	2343	1618	3353	2953	1857	388	0	0	550	2509	9781	388	13228
1888	334	193	22	61	395	766	4256	5557	1542	160	114	12	527	478	12121	286	13412
1889	191	176	122	149	442	2695	3335	2647	1778	953	451	0	367	713	10455	1404	12939
1890	0	0	284	68	589	2449	4002	2714	1820	913	7	36	0	941	10985	956	12882
1891	198	98	1274	41	1100	797	2758	3818	2490	102	62	0	296	2415	9863	164	12737
1892	0	348	13	48	377	2077	3702	2317	2277	784	192	0	348	438	10373	976	12135
1893	232	1037	516	166	1466	3752	3943	2692	3714	1023	26	0	1269	2148	14101	1049	18567
1894	4	205	11	183	123	2587	4191	4411	2066	1693	256	22	209	317	13255	1971	15752
1895	95	83	127	463	437	2082	3448	2160	1658	706	0	3	178	1027	9348	709	11262
1896	10	21	0	40	403	3435	4263	3506	1690	0	148	167	31	443	12894	315	13682
1897	75	491	433	225	458	1769	2787	3339	1984	1472	1	0	566	1116	9879	1473	13033
1898	0	230	20	139	314	2586	3448	3188	3116	520	0	42	230	473	12338	562	13602
1899	265	87	25	553	540	3203	4092	1849	931	177	0	0	352	1118	10075	177	11722
1900	546	87	25	637	670	1932	2205	3531	3679	471	0	158	633	1332	11347	629	13941
1901	833	696	77	129	510	419	2596	3806	2282	317	109	0	1529	716	9103	426	11773
1902	39	104	204	207	891	680	3852	2042	3361	164	47	21	143	1302	9935	231	11612
1903	246	126	78	543	662	1270	1921	2653	1826	1976	2	0	372	1282	7670	1978	11302
1904	8	147	483	97	1255	3003	4981	3322	1113	304	11	9	155	1835	12419	324	14733
1905	413	476	780	363	631	340	4321	2545	3387	161	0	26	888	1774	10593	187	13443
1906	435	1282	406	8	258	1754	3190	2808	2010	1045	103	161	717	672	9762	1164	13315
1907	13	700	818	299	229	3568	2130	4633	2120	69	0	235	713	1346	12451	304	14814
1908	139	489	51	0	409	2250	3824	3312	1430	308	0	0	628	460	10816	308	12212
1909	356	65	20	670	193	2435	2886	4182	2724	245	0	202	421	883	12227	447	13977
1910	246	123	48	241	526	2350	2643	3428	2328	807	146	0	369	815	10749	952	12885
1911	7	0	403	62	233	5116	1471	3064	3194	1019	569	0	7	698	12845	1588	15138
1912	41	215	170	252	521	1344	3622	3593	851	559	637	0	256	943	9410	1196	11805
1913	34	1265	466	1	684	4332	3025	3616	1807	804	222	184	1299	1151	12780	1210	16440
1914	0	190	278	200	1479	1137	3461	3209	1534	326	0	83	190	1957	9341	408	11897
1915	96	520	403	61	467	1621	2564	2230	1969	491	385	0	616	931	8384	876	10807
1916	0	154	8	142	551	2830	2089	2801	2425	2693	92	0	154	701	10145	2785	13785
1917	12	410	127	96	1240	2588	2938	4035	3023	3050	0	3	422	1463	12583	3053	17522
1918	56	5	62	148	642	3231	1210	3904	1782	34	0	8	61	852	10127	42	11082
1919	1142	192	286	259	478	3574	2985	4166	2208	1236	23	0	1334	1023	12933	1259	16549
1920	0	268	644	75	608	1043	7308	3337	1813	60	0	0	268	1327	13501	60	15156
1921	373	185	0	194	144	2356	3930	4224	1686	407	0	0	558	338	12196	407	13498
1922	141	23	0	167	91	3681	3673	3607	2603	529	136	13	164	258	13564	678	14664
1923	9	704	50	31	324	1653	4314	5954	1554	562	226	12	713	405	13475	800	15392
1924	222	174	5	108	192	1594	3683	2598	3070	710	1218	0	396	305	10945	1928	13574
1925	124	88	127	510	929	2133	4239	2806	1475	520	41	4	212	1566	10653	565	12996
1926	349	23	903	92	353	418	4429	3692	2787	362	46	249	372	1348	11326	657	13703
1927	307	1055	332	7	548	1107	4368	3141	1518	452	142	0	1362	887	10134	594	12977

1928	572	62	31	315	426	2769	4277	1468	1938	1586	0	83	634	772	10452	1669	13527
1929	584	201	133	112	180	997	4887	3841	924	2235	0	576	785	425	10649	2811	14670
1930	0	69	83	226	116	1112	5159	3028	2234	451	1342	36	69	425	11533	1829	13855
1931	721	276	176	28	334	1251	3710	3257	2477	1153	329	121	348	538	10695	1494	14075
1932	0	351	14	132	439	840	3868	2708	2378	434	533	15	351	585	9794	982	11712
1933	584	546	60	362	1184	2263	3356	3465	2030	784	34	631	130	1606	11114	881	14731
1934	338	115	15	196	135	1593	3060	3718	2232	525	121	30	453	346	10602	676	12077
1935	380	143	88	201	60	1133	2968	4850	2427	20	0	0	523	349	11377	20	12270
1936	156	200	179	31	1186	2768	3530	2992	3358	1381	138	128	356	1396	12648	1647	16047
1937	0	1030	39	295	836	2069	3233	2874	2720	1201	0	0	1030	1170	10896	1201	14297
1938	268	381	0	7	1015	1893	2205	2898	1755	409	13	0	648	1022	8751	422	10844
1939	199	431	333	131	190	2432	3821	3786	2772	1247	0	0	630	654	12811	1247	15342
1940	0	552	1107	159	519	1138	3263	3830	1437	614	1	286	552	1785	9668	901	12906
1941	409	50	43	50	617	3018	3954	4229	2056	1762	314	1	459	710	13257	2077	16503
1942	77	545	265	267	265	1319	5183	4791	3759	251	83	0	622	797	15052	334	16805
1943	725	159	2	425	429	1308	4578	5481	2453	947	0	0	884	856	13820	947	16507
1944	321	599	369	338	262	1485	4483	4551	1084	1199	57	0	920	968	11603	1256	14747
1945	569	241	2	238	481	1629	2404	3069	2637	1492	103	17	810	721	9739	1612	12882
1946	0	146	263	825	898	2386	3342	3285	2251	1589	308	3	146	1986	11264	1900	15296
1947	193	183	506	60	412	1805	2825	2618	2627	1224	146	198	376	978	9875	1568	12797
1948	278	147	250	199	580	2048	3818	2805	2044	1015	1081	3	425	1029	10715	2099	14268
1949	217	211	206	474	1136	1958	3695	3924	1734	706	0	1	428	1816	11311	707	14262
1950	15	109	394	45	565	3177	3650	3502	1996	330	116	69	124	1004	12325	515	13967
1951	59	7	470	269	364	1664	3227	2730	2894	955	101	0	66	1103	10515	1056	12740
1952	42	130	313	723	767	1616	3484	3101	2815	713	11	17	172	1803	11016	741	13732
1953	321	106	0	63	359	2244	4579	3810	2811	176	335	0	426	422	13444	511	14803
1954	137	98	22	62	316	1507	2507	2544	2640	409	0	49	235	400	9198	458	10291
1955	647	106	84	55	293	1283	2927	2301	1399	1323	190	0	752	431	7910	1513	10608
1956	107	343	524	116	767	2263	2945	3452	3359	1320	193	117	450	1407	12019	1630	15506
1957	564	174	277	17	2	1123	3393	2253	2577	287	0	0	738	296	9346	287	10667
1958	162	354	191	201	291	1080	3729	3035	2841	919	0	0	516	683	10685	919	12803
1959	331	68	21	242	567	2357	3279	3223	2941	3079	3	0	398	830	11800	3081	16111
1960	50	3	232	30	172	991	2920	4374	2134	649	2	0	53	434	10419	651	11557
1961	101	978	0	24	397	2874	2945	4035	3053	1701	5	621	079	421	12907	1768	16174
1962	118	209	94	189	425	1497	2925	2522	2242	490	0	85	327	708	9186	575	10796
1963	38	102	198	277	654	1707	3243	2519	3201	2624	188	0	140	1129	10670	2811	14751
1964	24	159	38	322	674	2010	2935	3590	2144	695	78	0	183	1034	10679	773	12669
1965	9	159	366	496	200	775	3688	2092	2580	535	0	19	168	1062	9135	554	10919
1966	399	52	12	170	234	2163	1619	2449	723	472	186	143	451	416	6953	801	8622
1967	132	3	561	287	313	991	2608	4768	2176	221	2	163	135	1161	10542	386	12225
1968	600	86	73	31	407	2745	3247	3294	696	625	0	35	686	511	9982	660	11839
1969	55	51	20	262	1031	1120	3378	3440	2040	420	291	2	106	1313	9978	712	12109
1970	154	116	242	82	483	1876	3089	2034	4647	593	13	0	270	807	11646	606	13329
1971	517	200	15	948	834	3087	4184	5427	2270	1087	59	0	717	1797	14968	1146	18628
1972	50	519	3	206	28	660	2644	4064	1792	810	175	3	569	236	9160	988	10954
1973	61	117	290	40	399	2249	2472	2754	4268	2446	101	8	178	729	11743	2555	15205
1974	14	20	238	50	596	715	3152	3275	2700	625	15	3	34	883	9842	643	11403
1975	282	292	336	163	400	1074	4812	2771	1811	951	0	0	574	898	10468	951	12892
1976	3	162	56	225	644	1279	3979	2634	4651	102	67	33	165	925	12542	201	13834
1977	204	147	60	449	1022	3049	5030	4030	1959	624	418	195	351	1531	14068	1237	17187
1978	73	663	464	311	292	2748	2200	3475	3938	1142	64	187	736	1067	12361	1393	15556
1979	309	393	134	180	66	1494	3094	1619	1503	298	290	108	702	380	7709	696	9488
1980	130	57	472	215	579	3322	2749	2243	2212	737	0	11	187	1266	10526	747	12727
1981	377	277	169	395	1130	1287	3932	2115	2030	19	4	164	654	1694	9364	186	11899
1982	60	183	685	294	390	1673	2441	3461	1319	383	176	96	243	1369	8894	655	11161
1983	4	212	62	504	952	1791	2725	2569	2786	892	0	190	216	1518	9871	1082	12687
1984	268	351	5	67	432	4195	2888	3927	1185	535	0	0	619	504	12195	535	13853
1985	166	66	5	106	458	1126	2809	2923	2299	1661	7	0	232	569	9157	1668	11626
1986	89	184	22	291	622	1942	3186	2204	1819	1270	311	630	273	935	9151	2211	12570
1987	44	182	61	208	417	462	3339	3855	3018	164	477	69	226	686	10673	710	12296
1988	27	391	693	251	192	2761	2599	2938	1330	483	36	18	418	1136	9628	537	11719
1989	20	0	52	0	913	2250	3040	3028	2058	540	65	276	20	965	10376	881	12242
1990	0	396	310	299	950	2868	5523	2739	2288	1215	129	0	396	1559	13418	1344	16717
1991	154	79	405	168	328	2294	2391	4624	2713	293	7	689	233	901	12022	989	14145

1992	28	154	1	103	806	1937	2322	2560	1313	186	19	0	181	910	8132	205	9429
1993	0	23	169	474	789	2443	1853	1726	3823	543	144	0	23	1432	9845	687	11987
1994	250	161	1	196	513	3776	4227	3748	1564	1547	35	0	411	710	13315	1582	16017
1995	226	223	346	24	532	1406	3738	3268	5163	335	1062	171	449	902	13575	1568	16494
1996	163	267	49	167	295	2999	2313	3328	1480	125	0	14	430	511	10120	139	11200
1997	85	24	30	213	239	2737	3085	4289	1721	653	792	325	109	481	11832	1770	14193
1998	758	374	590	272	881	1393	2441	2075	2539	1904	205	0	1132	1742	8448	2109	13432
1999	0	2	2	15	1064	2561	4598	3373	1498	1403	8	0	2	1081	12030	1411	14524
2000	37	338	89	176	706	2012	2918	1985	2651	182	0	0	375	971	9566	182	11093
2001	24	39	661	131	577	4236	3748	1692	1845	1536	5	0	63	1369	11521	1541	14493
2002	166	174	186	313	384	1650	2185	2675	3268	678	15	3	340	883	9778	696	11697
2003	41	253	517	237	182	1651	2935	2558	2918	3069	134	86	294	936	10062	3289	14581
2004	200	24	30	703	374	2540	2335	4660	2575	2113	0	60	224	1107	12110	2173	15614
2005	603	488	146	107	451	1455	3473	2593	1653	861	22	1161	1091	703	9174	998	11967
2006	0	0	257	85	1005	2371	4803	3612	2513	245	97	0	0	1347	13299	342	14988
2007	7	702	246	192	570	1839	4359	3217	3261	140	42	0	708	1008	12676	182	14574
2008	183	87	169	201	764	4086	5245	3438	2297	203	51	0	270	1134	15065	254	16724
2009	102	39	148	92	671	932	2326	3043	2917	1309	132	6	141	911	9218	1447	11717
2010	1	42	11	128	284	1039	1912	1883	2218	696	42	303	42	423	7052	1040	8559
2011	55	18	108	304	511	3675	1732	3301	2565	361	0	0	73	923	11273	361	12630
2012	416	107	35	139	169	1194	2778	3288	1913	289	586	114	523	343	9173	989	11027
2013	12	208	42	253	656	1871	2146	2584	1816	3499	0	0	220	951	8417	3499	13087
2014	120	496	324	18	895	1595	2571	2566	1652	671	0	2	616	1237	8384	672	10910
2015	143	40	277	618	325	1823	4379	2567	793	243	2	34	183	1220	9562	279	11244
2016	148	76	175	11	930	1229	3072	4137	2684	497	0	0	224	1116	11122	497	12958

 Values are up to 1 decimal

MEAN	183	249	215	205	562	2013	3353	3254	2292	836	128	61	432	983	10913	1026	13356
P-Ann	13	18	16	15	42	150	251	243	171	62	9	4	32	73	817	76	1000
SD	209	270	236	178	345	904	917	831	778	691	229	120	353	469	1656	720	1922
CV	1146	1082	1096	870	613	449	273	255	339	826	1777	1955	816	477	151	702	143

Table 13: BIHAR SUBDIVISION, AREA 94235 SQ.KM 3.27 PER, 11 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	1	68	79	430	946	2347	3857	3807	4173	79	8	42	69	1455	14184	129	15837
1872	320	181	15	154	431	1448	3331	1880	2307	578	0	0	501	600	8966	578	10645
1873	125	2	323	170	100	1079	3717	2546	807	0	0	41	127	593	8149	41	8909
1874	147	295	42	211	147	3267	2844	2413	3222	1058	0	0	442	400	11746	1058	13646
1875	218	29	0	148	712	2361	2262	3112	1400	0	0	4	246	860	9135	4	10246
1876	21	0	16	241	309	1409	2211	3396	2519	1437	0	0	21	566	9535	1437	11559
1877	496	381	58	243	1288	448	3007	1473	1684	811	0	144	877	1589	6611	955	10032
1878	254	71	34	237	1015	1304	2934	2909	2008	144	262	0	325	1286	9154	406	11172
1879	0	225	1	0	277	1691	3991	3271	4456	1531	1	6	225	278	13409	1538	15449
1880	60	631	39	30	561	1789	4204	3432	876	725	50	61	691	630	10301	836	12458
1881	9	10	379	78	694	2822	2434	3228	1725	1328	0	0	19	1151	10209	1328	12707
1882	0	176	49	58	707	1957	1567	3387	1526	1316	236	0	176	813	8437	1552	10979
1883	348	15	59	110	284	3454	2881	2269	1008	85	3	7	363	453	9612	95	10523
1884	3	15	1	61	398	1785	2248	1840	1384	1095	0	0	18	460	7256	1095	8830
1885	114	10	94	32	445	1095	3652	3647	3698	122	0	376	124	571	12092	498	13284
1886	55	28	153	46	627	1737	4433	4146	3678	1667	47	62	83	826	13993	1775	16679
1887	455	0	187	166	2255	2377	2184	2485	1913	895	0	0	455	2608	8959	895	12917
1888	201	7	76	323	640	920	3988	4104	1423	55	100	1	208	1039	10435	156	11838
1889	595	345	53	0	291	3241	3669	2371	2985	154	59	0	940	344	12266	213	13763
1890	20	1	32	26	695	3095	5607	3896	2113	800	0	2	21	753	14711	802	16287
1891	349	291	631	3	954	1674	2410	2234	961	325	0	0	640	1588	7278	325	9832
1892	8	164	19	154	444	1949	3403	4698	1183	60	0	0	171	617	11232	60	12082
1893	222	502	83	378	765	2098	4643	2206	2846	1304	30	0	724	1226	11792	1334	15077
1894	1	180	22	123	144	1997	3007	3645	2689	1879	351	4	181	289	11338	2234	14042
1895	111	103	29	189	535	1305	3734	2904	1755	92	8	35	214	753	9698	135	10800
1896	20	1	0	2	635	1529	2838	2116	1342	3	77	60	21	637	7825	140	8623
1897	39	146	369	247	300	3167	2698	2848	2126	1759	29	0	185	916	10839	1787	13728
1898	34	263	47	129	652	1218	2952	3621	5362	307	0	7	297	827	13153	314	14592
1899	349	70	36	489	716	2610	5912	4295	2308	269	0	0	419	1241	15125	269	17054
1900	594	118	5	43	443	2859	3432	1842	2891	456	0	88	712	491	11024	544	12771
1901	579	189	114	4	847	843	2355	3589	1532	53	80	0	768	965	8319	133	10185
1902	19	5	290	190	570	1047	3432	2318	3775	250	12	0	24	1050	10572	262	11908
1903	50	32	22	9	307	1832	1141	2971	1489	1347	0	0	82	338	7433	1347	9200
1904	87	25	29	28	1108	2469	3910	3720	806	1111	109	17	112	1165	10905	1237	13418
1905	123	260	373	221	837	429	3675	5083	3115	70	0	7	383	1431	12302	77	14192
1906	170	568	80	4	435	2186	3557	4765	1024	411	0	0	738	519	11532	411	13200
1907	7	521	385	261	295	2506	2763	2223	2032	22	0	21	528	941	9524	43	11035
1908	160	365	26	21	325	844	1705	1465	1370	199	0	3	525	372	5384	201	6483
1909	48	91	0	744	282	4590	2697	3414	1821	489	0	33	139	1026	12522	522	14209
1910	17	60	65	73	394	2376	3544	2781	2625	796	192	0	77	532	11326	988	12922
1911	68	0	297	128	366	2965	1885	4141	2911	1027	201	0	68	791	11902	1228	13988
1912	48	54	218	268	580	1408	3287	2979	1112	130	749	0	102	1066	8786	879	10833
1913	0	441	205	5	970	3976	2422	4495	2598	698	0	309	441	1180	13491	1007	16119
1914	0	216	70	307	798	824	2694	4674	748	85	0	3	216	1175	8939	88	10419
1915	71	511	199	39	778	1410	3444	3899	1925	431	308	1	582	1016	10678	739	13016
1916	0	181	0	237	168	2525	4389	3391	2857	1333	10	0	181	405	13162	1343	15091
1917	18	193	57	49	1006	2657	2900	1940	2428	1035	0	5	210	1112	9925	1040	12288
1918	7	0	25	298	966	2430	2176	5547	2948	81	0	0	7	1289	13101	81	14477
1919	395	70	47	136	413	2114	4760	1949	2213	613	0	3	465	596	11036	616	12713
1920	0	245	304	1	288	1086	3875	2267	3527	96	0	0	245	593	10755	96	11689
1921	251	7	92	133	250	1310	3386	4735	3564	502	0	0	258	475	12995	502	14230
1922	155	77	0	101	169	3563	3910	3419	2344	154	4	69	232	270	13236	226	13965
1923	8	361	9	113	452	1716	2222	2283	1579	457	3	4	368	574	7800	464	9207
1924	24	127	12	71	119	1155	5614	2701	3234	515	678	0	151	202	12704	1193	14250
1925	113	1	84	389	324	1058	3063	3614	2476	152	81	0	114	797	10211	233	11354
1926	121	1	173	153	407	427	4410	2974	1993	164	14	82	122	733	9804	260	10919
1927	239	366	276	53	522	1208	2829	1826	1611	158	379	0	605	851	7474	537	9467

1928	457	175	0	113	499	1766	3618	3097	1046	1805	0	35	632	612	9527	1840	12611
1929	541	6	95	239	329	2141	3205	3398	1245	2288	0	537	547	663	9989	2825	14023
1930	103	68	98	56	275	1713	3000	2094	2737	148	274	101	171	429	9544	523	10667
1931	5	348	58	13	270	506	4750	2211	2701	775	151	9	353	341	10167	935	11797
1932	0	88	5	173	202	1204	1457	2246	2002	280	746	73	88	380	6909	1099	8476
1933	216	142	9	713	1008	1855	3812	3496	1451	631	0	0	358	1730	10614	631	13332
1934	357	129	14	59	149	1444	4208	2365	2390	526	87	2	486	222	10407	615	11729
1935	223	155	0	2	134	1115	1789	4442	3449	6	0	0	378	136	10795	6	11315
1936	67	45	58	56	766	1756	4703	2888	3946	1100	0	100	112	880	13293	1200	15484
1937	0	647	4	113	933	824	2035	4967	1634	2310	0	4	647	1050	9460	2314	13471
1938	128	147	0	21	921	3709	3646	4054	2145	235	0	0	275	942	13554	235	15006
1939	23	499	105	26	195	2203	2901	2707	2605	655	0	0	522	326	10416	655	11919
1940	3	476	693	62	277	1193	3135	3058	2173	21	0	185	478	1032	9559	206	11276
1941	163	20	11	6	528	1913	2147	4371	1815	658	0	0	183	545	10246	658	11632
1942	376	450	169	143	278	1352	2436	3520	3930	55	0	7	826	590	11238	62	12716
1943	331	183	0	304	267	1295	2923	3333	1764	240	0	0	514	571	9315	240	10640
1944	250	245	393	398	114	1842	2019	2926	2027	559	0	12	495	905	8814	571	10784
1945	574	319	5	326	449	958	2204	2627	2669	1698	0	39	893	780	8458	1737	11868
1946	0	227	66	443	957	1766	3928	2559	2576	1501	145	0	227	1465	10829	1646	14167
1947	103	79	78	85	459	769	3762	2705	2030	631	0	0	182	622	9266	631	10701
1948	63	57	36	30	443	1057	4005	3294	2931	1033	269	0	120	508	11287	1302	13218
1949	185	514	68	434	925	2120	4784	3648	2305	1172	0	0	699	1427	12857	1172	16155
1950	65	107	250	13	407	3287	2528	2873	1320	26	0	20	172	670	10008	46	10896
1951	75	28	57	73	326	1225	3693	1967	1020	326	70	0	103	456	7905	396	8859
1952	0	112	206	212	512	3187	2296	3173	3298	114	18	5	112	930	11954	137	13133
1953	340	46	58	269	370	2214	3899	2729	3208	383	0	3	386	697	12050	386	13519
1954	179	92	8	2	366	1546	3472	3035	1182	109	0	4	271	376	9235	112	9995
1955	169	86	28	141	211	1420	4423	2793	2149	534	62	3	255	380	10785	599	12019
1956	178	57	86	14	697	3073	1728	2746	3823	1503	394	79	235	797	11370	1976	14378
1957	1027	31	194	10	7	1248	3821	3856	1277	75	0	221058	211	10202	97	11567	
1958	131	18	55	226	150	1108	1870	3940	1972	564	0	2	149	431	8890	566	10036
1959	924	6	139	186	577	1066	2383	2653	1170	2219	0	0	930	902	7271	2219	11322
1960	8	0	427	4	565	820	2955	2888	3642	578	9	0	8	996	10305	587	11896
1961	158	357	0	16	421	2288	2214	2655	1578	2643	2	89	515	436	8735	2734	12421
1962	134	51	89	173	251	1458	2074	3772	2379	685	0	49	185	513	9683	734	11115
1963	41	26	159	145	881	1531	3174	2950	2656	1228	158	1	67	1185	10311	1387	12950
1964	12	56	12	285	681	1264	4877	1506	2321	967	47	0	68	978	9968	1013	12027
1965	0	7	153	31	38	835	2860	3410	2419	253	12	1	7	221	9524	266	10019
1966	266	112	40	32	481	1013	1895	2420	1110	195	244	30	378	553	6438	469	7838
1967	27	13	349	312	246	695	2683	2563	2078	152	37	29	40	907	8018	218	9184
1968	372	21	53	27	170	3103	3074	2193	952	1242	0	75	393	250	9322	1317	11282
1969	67	118	139	157	660	2133	3135	3634	2641	235	552	0	185	956	11542	787	13471
1970	168	197	129	76	838	2083	3324	2490	3656	189	0	0	365	1043	11553	189	13150
1971	188	162	35	970	797	2869	3243	4207	1431	1658	9	0	350	1802	11749	1667	15569
1972	101	427	19	15	55	355	1526	1908	2628	466	171	0	528	89	6417	637	7671
1973	351	91	50	57	698	1994	2254	2243	3132	2056	75	0	441	805	9623	2131	13001
1974	29	6	245	65	481	1421	4948	3072	2564	294	0	72	35	791	12005	366	13197
1975	125	82	105	142	316	1055	3624	1366	2897	657	0	0	207	563	8942	657	10369
1976	17	113	0	94	726	1432	2210	2875	4095	346	1	0	130	820	10612	346	11908
1977	63	20	8	127	712	1063	5308	2445	1057	2034	92	157	83	847	9873	2283	13085
1978	147	272	320	108	516	2069	2915	2702	2184	1710	70	44	419	943	9870	1824	13057
1979	177	204	43	251	52	860	4636	1662	1036	933	420	222	381	346	8194	1575	10495
1980	63	25	157	98	1269	1724	4019	3529	1878	276	0	22	88	1524	11150	298	13060
1981	394	177	239	652	792	939	5570	2879	1737	0	65	104	571	1682	11125	169	13547
1982	37	191	272	120	341	2045	2234	1527	1408	409	227	14	228	733	7213	650	8825
1983	122	42	130	434	711	1116	3406	2359	2070	757	0	168	164	1275	8951	925	11315
1984	299	885	10	78	829	4105	5061	3181	2668	163	0	171184	917	15015	180	17295	
1985	85	9	1	88	681	1567	5035	2411	2384	2003	0	57	94	770	11397	2060	14321
1986	8	92	7	208	1031	1656	4219	2196	1913	1176	33	201	100	1246	9984	1410	12740
1987	3	25	44	326	516	1617	4728	5949	3551	297	89	19	28	886	15845	405	17164
1988	9	170	279	374	499	1639	2811	4153	1685	286	5	115	179	1152	10288	406	12024
1989	82	105	83	8	1078	1720	4251	1549	3279	360	13	136	187	1169	10799	509	12664
1990	0	347	166	44	818	1494	4395	1892	1583	418	0	0	347	1028	9364	418	11157
1991	162	91	102	142	208	2141	1746	3420	2620	34	7	193	253	451	9927	234	10866

1992	41	53	2	6	676	1027	3208	2346	1008	298	17	0	94	684	7588	315	8682
1993	80	77	218	356	644	1618	2103	3779	3559	455	316	0	157	1218	11059	771	13205
1994	395	297	7	126	462	1260	2122	3713	2331	443	49	0	692	595	9426	492	11205
1995	103	223	35	9	126	1447	3111	3225	3076	75	602	262	326	170	10859	938	12293
1996	364	198	1	55	204	2708	2509	4170	2022	588	0	0	562	260	11408	588	12819
1997	120	3	49	348	481	2671	5124	3264	2292	325	139	405	123	878	13351	869	15221
1998	110	165	239	306	534	834	4749	3745	2288	831	184	53	275	1079	11616	1068	14038
1999	1	3	0	37	1231	2868	4253	3234	1714	1064	46	26	4	1268	12069	1136	14477
2000	12	163	40	324	1053	2809	3024	1881	3422	207	0	0	175	1417	11136	207	12935
2001	31	4	24	82	909	1759	1819	1511	2246	2277	0	0	35	1015	7335	2277	10662
2002	96	123	29	271	751	910	3156	2171	1515	448	8	21	219	1051	7752	476	9498
2003	120	466	92	271	435	2761	2942	2829	1332	1376	0	36	586	798	9864	1412	12659
2004	223	32	26	395	850	2211	3976	2180	1002	689	3	1	255	1271	9369	693	11588
2005	136	153	123	75	610	992	2782	3333	1286	467	0	0	289	808	8393	467	9957
2006	0	0	54	285	896	2527	3063	1733	3252	157	54	9	0	1235	10575	220	12030
2007	30	364	227	147	594	1542	4978	3243	3436	644	1	0	394	968	13199	645	15206
2008	257	63	19	142	679	3158	3876	3083	1680	160	2	0	320	840	11797	162	13118
2009	14	10	14	6	1083	741	1953	3075	2087	879	131	58	24	1103	7856	1068	10051
2010	8	21	1	86	1118	941	2977	2019	1559	629	26	4	28	1205	7496	659	9389
2011	28	89	99	254	937	2744	2339	3695	3040	136	23	0	117	1290	11818	159	13384
2012	167	27	85	186	242	917	3315	2345	1698	449	64	0	194	513	8275	513	9495
2013	68	269	5	350	1094	2130	1624	2084	1628	2224	8	0	337	1449	7466	2232	11484
2014	173	339	39	10	859	1322	2666	3008	1613	371	0	9	512	908	8609	380	10409
2015	150	29	296	377	415	1315	2218	2995	1023	93	0	0	179	1088	7551	93	8911
2016	109	6	60	38	884	1367	3417	1566	3602	638	0	0	115	982	9952	638	11687

 Values are up to 1 decimal

MEAN	149	154	103	162	565	1791	3249	2994	2239	667	70	37	303	830	10274	775	12184
P-Ann	12	12	8	13	46	147	266	245	183	54	5	3	24	68	843	63	1000
SD	174	165	124	161	330	833	1015	892	902	619	144	80	244	400	1975	641	2103
CV	1173	1070	1201	995	584	465	312	298	403	928	2049	2158	804	481	192	827	172

Table 14: EAST UTTAR PRADESH SUBDIVISION, AREA 146509 SQ.KM 5.09 PER, 26 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306
 stations and 2013-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	97	149	18	102	612	2134	5008	2971	3971	13	0	344	245	732	14083	357	15419
1872	445	116	72	24	84	1360	3486	3457	1907	6	0	2	561	180	10210	8	10958
1873	46	27	189	6	86	424	3694	2079	1411	4	0	10	73	281	7607	14	7976
1874	60	145	43	0	64	2918	3287	3039	2324	281	17	1	205	107	11568	299	12178
1875	116	148	0	0	224	1211	2774	3656	2045	27	0	16	264	224	9686	43	10217
1876	24	0	46	85	36	277	2792	1875	2387	730	0	0	24	167	7331	730	8252
1877	576	328	140	125	137	557	1084	938	514	984	3	307	903	402	3093	1294	5693
1878	537	102	22	174	464	610	2088	2779	1921	25	29	0	639	660	7397	54	8751
1879	0	47	0	0	73	1682	4006	3219	2373	1151	0	38	47	73	11280	1189	12589
1880	1	243	0	0	401	407	3484	1045	799	119	103	29	244	401	5735	251	6631
1881	11	26	271	7	333	1765	2099	3214	706	377	0	0	37	611	7783	377	8809
1882	4	64	0	10	262	2058	1702	3129	602	545	70	0	68	272	7491	615	8446
1883	796	15	81	15	166	1122	3308	862	1249	56	0	1	811	262	6541	57	7671
1884	2	7	8	2	131	1062	2200	3878	2478	895	0	1	9	141	9618	896	10664
1885	207	1	21	47	177	1665	3386	3763	1292	40	1	714	208	245	10106	755	11314
1886	44	3	282	0	307	2000	3219	2643	1437	1065	3	219	47	589	9299	1287	11222
1887	247	0	37	117	81	943	2704	4105	1399	817	2	0	247	235	9151	818	10452
1888	280	39	71	45	121	696	4574	4009	2174	1	35	0	319	237	11453	36	12045
1889	355	289	21	2	140	1844	3956	2909	2430	55	46	0	644	163	11139	101	12047
1890	9	19	57	11	136	3218	4068	2561	2352	132	0	20	28	204	12198	152	12582
1891	242	35	428	21	341	697	1048	4549	2697	616	0	0	277	790	8991	616	10674
1892	65	212	0	0	60	1067	3193	4584	812	13	11	9	277	60	9656	33	10026
1893	336	281	182	76	589	2008	3110	2110	2690	1120	96	3	617	847	9918	1219	12601
1894	107	464	27	5	16	2736	3061	4459	1920	3552	669	115	571	48	12176	4336	17131
1895	299	145	75	91	182	1953	2552	2592	1509	10	0	45	444	348	8606	55	9453
1896	11	12	0	0	37	1254	1759	2504	137	0	91	136	23	37	5653	227	5940
1897	236	48	96	10	57	1254	2710	3981	1495	859	0	0	284	163	9440	859	10746
1898	11	542	6	55	137	1519	3504	4793	2235	48	28	43	553	198	12051	119	12921
1899	207	35	0	179	351	2477	4961	2549	554	66	0	0	242	530	10541	66	11379
1900	676	49	3	24	161	462	2786	2181	2561	437	0	321	725	188	7990	758	9661
1901	633	333	67	10	141	200	2046	2821	2200	47	1	18	966	218	7267	65	8517
1902	59	16	14	6	212	291	3958	1500	2597	148	10	0	75	232	8346	158	8811
1903	85	1	3	7	145	673	1266	4273	2461	3358	0	0	86	155	8672	3358	12272
1904	65	23	94	6	271	1376	3542	3065	996	492	188	286	88	371	8979	966	10404
1905	163	253	210	40	162	156	2995	3452	1559	37	0	21	416	412	8162	58	9048
1906	41	601	63	1	134	1495	3470	2894	1270	78	0	0	642	198	9129	78	10047
1907	15	774	227	167	109	331	1577	2759	220	0	0	0	789	503	4887	0	6179
1908	181	146	62	3	38	603	2242	2877	825	130	0	6	327	103	6547	136	7113
1909	81	52	0	611	32	2306	4002	2009	1580	64	0	215	133	642	9897	279	10952
1910	42	2	6	13	288	1530	2191	3764	1985	989	293	1	43	307	9470	1283	11104
1911	419	1	298	18	28	992	623	3373	3740	1068	403	0	420	343	8728	1471	10963
1912	149	76	78	36	166	473	3270	3022	1205	13	300	3	225	280	7970	316	8791
1913	1	346	314	3	650	1596	2057	1991	933	120	0	137	346	967	6577	257	8148
1914	16	156	212	72	524	415	4359	3184	889	31	0	1	172	808	8847	31	9859
1915	128	413	251	61	211	1014	3027	3824	4318	893	6	22	541	523	12183	921	14167
1916	0	201	0	63	52	2408	3205	3529	1918	526	76	0	201	115	11060	602	11978
1917	74	312	70	34	342	1505	3487	2102	2836	638	0	46	386	446	9930	684	11446
1918	4	0	54	22	212	1394	944	2221	1203	0	14	12	4	288	5762	26	6080
1919	407	93	20	46	96	659	3495	2244	2284	616	1	46	500	162	8682	662	10007
1920	0	118	90	11	181	871	4680	1394	891	29	0	0	118	282	7836	29	8265
1921	459	6	32	50	0	1614	1769	4376	2254	119	0	13	465	82	10013	132	10692
1922	320	51	0	42	29	1284	4662	4952	3070	23	0	171	371	71	13968	194	14604
1923	14	357	0	1	60	390	2827	3627	2720	897	12	160	371	61	9564	1069	11065
1924	89	59	9	0	19	336	4948	2549	2713	262	124	105	148	28	10545	491	11212
1925	41	0	2	156	157	1306	4867	2089	2366	51	131	0	41	315	10628	182	11166
1926	82	15	504	179	164	196	3731	2737	2435	380	1	13	97	847	9099	393	10437
1927	65	234	161	20	283	691	2813	3231	1543	774	812	52	299	464	8278	1638	10678

1928	271	951	3	139	125	1076	2775	1063	536	686	1	1511222	267	5450	837	7776
1929	464	12	139	13	54	1698	3001	3430	456	502	0	482 476	206	8585	984	10251
1930	116	179	39	26	46	483	3894	2660	3163	414	50	131 295	111	10199	595	11201
1931	5	281	18	2	47	387	2982	2167	3824	1106	0	0 286	67	9360	1106	10819
1932	0	53	33	2	64	842	1829	3140	1421	212	288	24 53	99	7231	524	7908
1933	103	183	25	396	477	1330	2037	2514	1614	977	0	0 286	898	7495	977	9656
1934	396	9	159	17	7	1609	3560	2506	2356	80	12	37 405	183	10031	129	10747
1935	180	206	0	130	2	706	2404	3160	1927	0	0	144 386	132	8197	144	8859
1936	66	296	48	45	195	2103	5844	3503	2666	261	55	219 362	288	14116	535	15301
1937	0	602	14	60	195	850	2781	3546	885	664	2	56 602	269	8062	722	9655
1938	261	115	0	23	377	2992	4346	4143	2332	386	1	0 376	400	13813	386	14975
1939	134	179	19	10	18	1673	2775	2337	2322	176	0	0 313	47	9107	176	9643
1940	92	171	344	42	107	679	2514	3440	1169	36	0	235 263	493	7802	271	8829
1941	210	45	0	9	188	1176	1303	2674	1699	38	0	0 255	196	6851	38	7342
1942	606	522	48	63	30	914	2928	3252	1937	0	0	721128	141	9031	72	10372
1943	203	83	0	179	142	692	2419	4868	2755	159	0	0 286	321	10733	159	11500
1944	197	430	621	128	59	1112	2988	3154	1693	407	0	28 627	808	8947	435	10817
1945	445	5	21	179	140	742	2540	2079	2729	1081	0	55 450	340	8090	1136	10016
1946	0	278	3	309	324	972	4133	2243	1450	937	100	15 278	636	8798	1052	10764
1947	145	81	157	12	150	911	4200	2374	1973	193	3	25 226	319	9458	220	10224
1948	312	89	2	4	160	1080	4291	3858	2765	587	132	0 401	166	11993	719	13279
1949	34	403	13	24	298	472	3080	3771	2773	944	2	0 437	335	10096	946	11814
1950	318	86	229	1	67	1464	2505	3470	971	22	1	286 404	297	8410	309	9419
1951	291	120	211	51	37	1283	1310	2529	1675	83	19	0 411	299	6796	102	7608
1952	29	117	350	19	75	2506	1553	3197	1058	50	0	26 146	444	8314	76	8980
1953	332	73	9	26	84	1442	5025	3451	2593	24	0	19 405	119	12511	43	13078
1954	434	362	10	0	38	686	3017	2905	1919	303	0	1 796	48	8527	304	9674
1955	319	110	7	24	35	1989	5315	3269	2197	1040	0	0 429	66	12770	1040	14305
1956	225	59	137	1	392	1374	2226	2737	3040	1839	398	76 284	530	9377	2313	12504
1957	442	1	158	5	2	544	3572	2886	1560	29	0	53 443	165	8562	82	9252
1958	153	20	85	26	2	515	2223	3803	1955	1059	0	21 173	113	8496	1080	9862
1959	561	52	46	40	359	414	2122	3001	723	1160	10	0 613	445	6260	1170	8488
1960	87	0	337	23	57	612	3789	3440	1653	1430	0	0 87	417	9494	1430	11428
1961	224	280	0	13	92	835	2869	4247	1441	2308	3	107 504	105	9392	2418	12419
1962	328	154	93	48	30	598	2299	4019	2593	105	0	44 481	171	9509	149	10311
1963	142	21	105	74	204	849	3176	3370	1478	189	68	13 163	383	8873	270	9689
1964	36	49	2	23	408	663	3879	1663	2953	203	0	105 85	433	9158	308	9984
1965	15	6	91	173	25	158	1873	1944	1687	462	0	5 21	289	5662	467	6439
1966	106	85	0	0	80	2010	1543	2618	220	137	212	127 191	80	6391	476	7138
1967	18	0	316	69	84	530	2656	4674	1477	55	4	382 18	469	9337	441	10265
1968	279	69	27	43	4	791	3183	2388	1109	286	0	27 348	74	7471	313	8206
1969	26	31	39	54	410	782	3667	3090	2021	79	135	0 57	503	9560	214	10334
1970	339	420	82	100	338	1964	2235	2417	3408	498	2	0 759	520	10024	500	11803
1971	161	117	99	500	465	2057	3271	3899	2603	904	10	0 278	1064	11830	914	14086
1972	68	292	14	9	3	379	1892	2367	1949	366	217	0 360	26	6586	583	7556
1973	169	154	3	0	231	1126	2928	3549	1844	1400	1	4 323	234	9447	1405	11409
1974	3	47	33	1	64	503	3534	2586	1083	218	16	107 50	98	7706	341	8194
1975	78	52	113	0	40	2681	3921	2926	1611	381	0	0 130	153	11139	381	11802
1976	74	54	6	50	225	677	2420	3219	2586	42	5	2 128	281	8902	48	9360
1977	129	49	0	123	243	573	3323	1913	1179	671	11	136 178	366	6988	817	8349
1978	307	291	274	39	28	1651	3099	2649	2296	104	13	47 598	341	9695	164	10798
1979	275	280	11	77	100	856	2705	780	314	180	339	113 555	188	4655	632	6030
1980	69	31	83	0	120	1692	5719	4147	2776	207	1	149 100	203	14334	357	14994
1981	189	33	94	58	348	775	4615	2450	3012	13	123	34 221	500	10852	170	11744
1982	309	106	399	116	350	1017	1834	3489	3553	130	242	62 415	865	9893	434	11607
1983	211	8	3	222	366	1077	2572	2430	3500	987	0	167 219	591	9579	1154	11542
1984	245	213	17	69	40	2359	3215	2244	2497	138	0	47 458	126	10315	185	11083
1985	222	0	3	49	154	737	3177	2309	3523	1833	0	89 222	206	9746	1922	12096
1986	106	331	21	50	315	1213	2752	2616	1099	252	17	326 436	386	7680	595	9098
1987	148	93	27	137	254	109	1907	1729	2326	806	7	46 241	418	6071	858	7588
1988	58	49	146	109	121	1384	3270	3454	923	443	0	147 107	376	9031	590	10104
1989	181	69	117	0	38	1421	3830	1840	2304	109	32	160 250	155	9395	301	10101
1990	4	396	94	51	451	1207	4818	2470	2234	73	7	91 400	596	10729	171	11896
1991	126	129	88	61	47	1015	1104	3692	1998	4	27	214 255	195	7808	245	8505

1992	68	59	3	1	155	434	2461	2221	1600	821	34	0	127	159	6716	855	7857
1993	14	51	275	85	336	1605	1349	1946	2304	37	7	0	65	696	7204	44	8009
1994	249	248	1	113	60	1224	2578	2518	2235	51	0	0	496	174	8555	51	9277
1995	235	223	24	27	38	1374	1463	2555	2104	25	153	99	458	89	7496	277	8320
1996	483	312	6	42	14	1357	1639	3177	1481	766	0	0	795	62	7654	766	9277
1997	68	5	15	128	175	814	3209	2346	2127	372	142	465	73	318	8496	979	9866
1998	69	84	182	93	192	575	3251	4319	1298	321	148	0	153	467	9443	468	10532
1999	100	102	0	0	224	1257	2755	2778	2646	794	21	33	202	224	9436	848	10710
2000	26	35	28	83	505	2252	2430	2311	2337	27	99	0	61	616	9330	125	10133
2001	14	23	12	46	309	2221	2894	1856	1712	886	42	0	37	367	8683	927	10015
2002	160	333	2	19	377	591	1076	2156	2319	207	20	28	493	398	6141	255	7288
2003	145	356	42	106	20	1089	2444	2795	3461	53	0	121	501	168	9789	174	10632
2004	232	6	0	79	238	1602	1836	1349	1043	257	0	0	238	317	5830	257	6641
2005	135	133	118	9	94	683	3155	2495	1400	254	0	57	268	220	7733	311	8533
2006	0	0	169	146	375	1533	3574	1739	867	169	14	37	0	690	7713	220	8623
2007	1	548	318	31	522	939	2815	2210	1528	197	0	21	549	871	7492	218	9130
2008	19	48	6	60	277	2765	4623	3006	1391	120	9	0	67	343	11785	129	12324
2009	2	14	20	10	405	374	2027	2219	1852	947	72	48	16	435	6472	1067	7990
2010	39	164	0	1	252	276	2327	2347	1945	186	69	1	203	253	6895	256	7606
2011	14	57	22	52	409	1819	2176	2617	1760	1	0	0	71	483	8372	1	8927
2012	314	65	53	249	1	211	3360	2405	2515	24	0	2	379	303	8491	26	9199
2013	65	749	26	93	11	3342	2360	2469	762	928	5	11	814	130	8933	944	10821
2014	508	324	151	18	108	515	2304	1384	1038	713	0	86	832	277	5241	799	7148
2015	322	51	472	248	86	1027	1838	1762	213	113	5	52	373	806	4840	170	6189
2016	56	13	92	0	397	831	3470	2250	1468	246	0	0	69	489	8018	246	8823

 Values are up to 1 decimal

MEAN	171	152	87	61	180	1172	2956	2858	1891	443	47	66	324	329	8878	557	10090
P-Ann	17	15	8	6	17	116	292	283	187	43	4	6	32	32	879	55	1000
SD	167	173	117	88	150	700	1033	864	843	564	113	109	241	225	2011	610	2118
CV	9731136	1344	1429	836	597	349	302	445	1271	23811659	744	686	226	1093	209		

Table 15 : WEST UTTAR PRADESH PLAINS SUBDIVISION, AREA 96782 SQ.KM 3.36 PER, 19 STN

Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306 stations and 2013-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	127	312	0	83	510	2106	3595	2825	979	0	0	308	439	593	9505	308	10845
1872	501	116	60	27	115	1052	3157	2948	1070	0	0	40	617	202	8227	40	9086
1873	114	22	132	0	240	150	3879	2034	2657	35	11	20	136	372	8720	66	9294
1874	135	99	143	2	50	1661	3940	2909	2183	0	0	1	234	195	10693	1	11123
1875	41	465	0	0	176	231	3089	2478	2270	33	0	47	506	176	8068	80	8830
1876	7	1	75	87	131	303	3403	1399	1483	253	0	0	8	293	6588	253	7141
1877	479	400	194	78	159	341	694	342	267	1149	31	808	879	431	1644	1988	4942
1878	345	124	81	286	272	333	2219	2725	1681	0	0	45	469	639	6958	45	8111
1879	51	98	76	6	5	1228	4311	4340	1379	300	0	112	149	87	11258	412	11906
1880	36	276	0	19	141	850	2647	396	2205	15	127	117	312	160	6098	259	6829
1881	10	109	704	11	122	982	3150	3954	158	21	0	0	119	837	8244	21	9220
1882	121	163	4	31	264	1471	4140	2114	689	8	0	0	284	299	8414	8	9005
1883	679	2	205	9	274	745	2095	725	1080	11	24	2	681	488	4645	37	5851
1884	14	20	22	2	42	904	1708	3672	3335	909	5	14	34	66	9619	928	10647
1885	393	19	35	32	251	1866	3274	4299	236	35	0	504	412	318	9675	539	10944
1886	210	4	347	0	368	1512	2735	3032	1243	280	0	48	214	715	8522	328	9779
1887	375	0	17	26	4	766	3198	3336	1956	18	10	25	375	47	9256	53	9730
1888	267	173	86	29	93	313	4263	2484	2743	44	68	0	440	208	9803	112	10563
1889	269	555	15	23	93	945	3077	3322	367	9	4	0	824	131	7711	13	8679
1890	54	5	81	65	100	1865	4211	1919	1361	9	0	92	59	246	9356	100	9762
1891	255	17	462	16	188	293	1147	4802	3344	230	22	0	272	666	9586	252	10776
1892	123	203	0	0	105	619	2760	3972	1117	11	0	116	326	105	8468	127	9026
1893	447	536	172	53	316	1433	3307	1552	2070	655	82	6	983	541	8362	742	10629
1894	509	151	193	5	33	1583	2264	3957	2104	727	296	510	660	230	9908	1532	12332
1895	600	135	56	132	63	2510	2849	2873	661	1	2	48	735	250	8893	51	9929
1896	31	95	2	4	77	1257	2152	1992	86	2	123	140	126	83	5486	265	5961
1897	153	19	39	10	50	800	3980	3093	1370	12	17	1	172	99	9243	30	9544
1898	1	979	0	42	98	669	2259	2843	1318	30	24	157	980	140	7088	211	8420
1899	38	67	8	92	159	2563	2741	651	191	30	0	0	105	259	6146	30	6539
1900	352	65	15	192	158	363	2379	2486	2425	11	0	405	417	365	7653	416	8851
1901	559	297	104	13	59	244	2046	3838	644	69	0	86	856	176	6772	155	7959
1902	45	27	4	59	83	656	3279	2032	1297	100	0	0	72	146	7264	100	7582
1903	156	8	24	1	96	339	1428	2697	1541	1806	0	6	164	121	6005	1812	8101
1904	82	6	324	5	327	729	3389	3066	924	11	159	295	88	656	8108	465	9317
1905	337	284	169	31	73	236	1423	898	900	0	0	35	621	273	3457	35	4386
1906	42	610	259	3	60	2054	2279	1749	2382	0	0	75	652	321	8464	75	9513
1907	161	663	179	288	150	151	1975	2300	4	0	0	0	824	617	4430	0	5871
1908	248	149	17	23	142	599	3476	4008	318	6	12	14	396	182	8401	32	9012
1909	185	77	0	642	34	1739	3715	1436	1086	18	0	325	262	676	7976	343	9256
1910	130	27	0	13	185	1003	1210	2856	2229	1512	28	10	157	198	7298	1550	9203
1911	702	3	363	4	4	452	534	1234	3296	184	429	7	705	371	5516	620	7212
1912	310	64	93	43	66	327	2389	2113	2621	0	77	12	374	202	7450	89	8115
1913	4	395	268	18	637	1340	1491	1004	229	16	10	76	399	923	4064	102	5488
1914	0	110	240	199	307	434	3102	2040	2261	124	78	0	110	746	7836	202	8895
1915	251	669	552	87	128	668	2064	2213	1362	131	0	27	920	767	6307	158	8152
1916	0	194	1	21	87	1223	3433	3116	2487	444	38	0	194	109	10258	482	11044
1917	105	288	113	168	485	1013	2905	2293	3111	839	0	37	393	766	9322	876	11357
1918	86	4	115	110	52	901	688	1576	202	4	46	7	90	277	3367	57	3791
1919	696	43	37	65	122	201	2905	3303	1179	61	43	168	739	224	7588	272	8822
1920	57	105	119	0	194	1362	3650	817	281	15	0	0	162	313	6110	15	6600
1921	502	12	32	44	0	1465	1779	3688	2317	134	0	8	514	76	9249	142	9981
1922	400	38	1	11	14	730	3411	3310	1996	57	0	231	438	26	9447	288	10199
1923	47	417	1	0	96	70	1870	3071	2184	470	9	401	464	97	7195	880	8636
1924	311	202	31	0	114	185	2971	2471	3684	483	8	259	513	145	9311	750	10719
1925	37	0	0	58	142	2150	4005	2217	604	68	190	0	37	200	8976	258	9471
1926	173	112	614	155	245	182	2783	3086	1207	84	24	2	285	1014	7258	109	8667
1927	0	275	270	29	213	737	2800	3458	629	1231	325	111	275	511	7624	1667	10077

1928	249	925	22	79	79	439	2747	720	465	417	112	1701174	180	4371	699	6424
1929	272	6	21	62	23	802	1899	2262	370	222	9	351 278	105	5333	582	6299
1930	286	208	6	19	55	585	3307	2118	415	341	3	36 494	80	6425	379	7378
1931	5	281	72	4	48	158	2151	2253	3633	669	0	0 286	124	8195	669	9274
1932	0	21	164	55	33	314	1764	2055	3265	0	77	117 21	251	7398	194	7865
1933	69	124	77	149	362	2545	2170	2289	1955	944	12	12 193	588	8959	967	10707
1934	285	14	256	12	8	1086	2011	3175	1286	0	0	121 299	276	7558	121	8254
1935	298	226	30	166	1	98	3065	1956	1793	20	39	282 524	197	6912	341	7974
1936	46	199	118	16	166	3007	3442	2932	1928	22	78	247 245	300	11309	347	12201
1937	3	703	19	103	136	687	2140	1759	1300	26	6	128 706	258	5886	160	7009
1938	346	65	0	7	112	1564	2969	1674	291	120	0	0 411	119	6497	120	7147
1939	84	268	83	5	25	1241	2388	985	2311	38	0	0 351	113	6925	38	7428
1940	241	384	222	57	84	408	2474	3850	570	9	4	224 625	363	7301	236	8527
1941	347	66	20	0	193	1040	466	2357	682	93	0	28 413	213	4545	121	5292
1942	350	526	29	45	74	1397	3598	3225	2189	0	0	131 876	148	10409	131	11564
1943	315	6	37	161	153	864	1971	4027	1575	7	0	0 321	351	8437	7	9116
1944	377	463	463	250	4	765	2409	1533	947	181	2	19 840	717	5654	202	7413
1945	397	0	5	44	44	264	2901	2492	2638	504	0	0 397	93	8295	504	9289
1946	0	170	2	145	228	878	3894	2620	391	279	82	54 170	375	7783	415	8743
1947	206	128	153	2	32	461	2404	1956	2747	117	0	60 334	187	7568	177	8266
1948	293	212	128	6	49	54	3309	4278	1778	222	48	14 505	183	9419	284	10391
1949	8	467	40	34	104	149	3189	2953	2101	208	0	1 475	178	8392	209	9254
1950	206	146	227	4	123	560	2689	3661	1364	0	0	133 352	354	8274	133	9113
1951	182	70	389	69	184	396	1273	2349	2178	65	194	0 252	642	6196	259	7349
1952	78	195	205	29	67	1785	1669	3622	308	53	0	67 273	301	7383	120	8078
1953	412	7	0	56	82	820	3889	1981	833	10	0	16 419	138	7523	26	8105
1954	364	650	103	1	7	562	2475	2008	1858	1001	0	01014	111	6903	1001	9029
1955	443	37	31	40	43	1039	1911	2868	2119	1939	0	0 480	114	7936	1939	10470
1956	192	47	234	0	100	774	3656	2831	795	2065	58	26 239	334	8056	2149	10778
1957	658	5	282	58	29	442	2649	2283	2920	172	30	149 663	369	8294	351	9677
1958	50	27	22	41	11	385	3501	3667	2343	1327	2	146 77	74	9896	1475	11522
1959	485	41	58	19	351	225	2005	2893	1086	544	151	0 526	428	6208	695	7857
1960	115	0	393	18	77	901	3545	3637	1075	2160	0	31 115	488	9158	2191	11952
1961	378	311	0	20	94	753	4007	4949	1116	1265	33	125 689	114	10825	1423	13051
1962	366	156	123	6	37	473	2177	2190	2252	0	30	76 522	166	7092	106	7886
1963	154	65	70	25	191	788	1517	4023	3120	4	93	50 219	286	9448	147	10100
1964	37	8	9	4	244	235	4136	2172	2501	14	12	111 45	257	9044	137	9483
1965	90	148	155	242	123	39	2089	2122	1367	252	0	1 238	520	5617	253	6628
1966	75	130	18	4	266	1544	1508	4047	617	80	76	31 205	288	7716	187	8396
1967	0	1	330	11	49	554	2857	4848	2319	55	22	590 1	390	10578	667	11636
1968	201	76	106	9	0	533	3043	2009	805	208	0	23 277	115	6390	230	7012
1969	58	41	87	60	228	165	2895	3007	2509	0	159	0 99	375	8576	159	9209
1970	388	456	74	1	217	1166	1322	3057	1305	172	0	0 843	292	6850	172	8158
1971	114	154	41	104	514	1293	2998	2853	1484	890	110	0 268	659	8627	1000	10555
1972	63	308	65	29	0	516	1545	2513	1395	118	65	24 371	94	5969	206	6641
1973	136	122	21	0	134	980	2143	2988	723	623	0	40 258	155	6833	663	7910
1974	1	0	2	5	160	351	3467	2139	289	244	0	159 1	167	6246	403	6817
1975	183	61	97	2	4	1708	2975	2294	2664	307	0	0 244	102	9641	307	10295
1976	35	135	37	23	154	919	2971	3838	885	31	23	9 170	214	8613	62	9060
1977	209	50	7	325	320	743	3837	2064	1928	304	0	158 259	652	8572	462	9945
1978	84	308	467	51	6	2196	2842	3795	1649	15	20	51 391	524	10482	86	11484
1979	405	590	162	39	400	497	2121	882	241	31	189	76 995	601	3741	296	5633
1980	41	155	320	5	44	1186	3161	2924	856	159	19	203 196	369	8126	381	9073
1981	195	63	168	7	240	1077	3249	1091	968	46	259	32 258	415	6384	337	7395
1982	279	110	670	264	456	671	1825	3695	621	35	123	116 389	1390	6811	274	8864
1983	301	29	46	562	372	777	3279	3671	2860	610	0	134 330	980	10587	744	12641
1984	209	254	2	78	6	1691	2573	2814	1057	5	0	7 463	86	8135	12	8696
1985	81	0	19	94	69	381	3542	2450	1907	1498	0	199 81	181	8280	1697	10240
1986	137	601	66	88	319	828	2175	1777	940	265	34	109 737	473	5720	408	7339
1987	131	124	46	16	495	268	1307	1797	1100	199	0	106 255	557	4472	305	5589
1988	64	69	214	109	81	1105	3471	3753	1021	184	0	163 133	404	9350	346	10234
1989	286	16	331	4	29	946	1476	2810	1478	21	50	172 302	364	6710	243	7618
1990	0	590	70	12	337	415	2467	1742	2383	81	49	276 590	419	7007	406	8422
1991	28	210	74	34	76	414	1148	3645	1176	0	68	182 238	184	6383	250	7055

1992	155	92	21	6	86	241	2229	3288	941	400	110	15	247	113	6698	525	7583
1993	35	185	237	15	202	855	1494	1319	2904	182	4	0	220	454	6571	186	7432
1994	240	182	0	177	74	605	3284	3040	146	9	0	9	422	251	7075	18	7766
1995	262	123	92	32	3	813	1706	3630	1252	0	8	14	385	127	7401	22	7935
1996	326	587	26	8	59	1037	2119	3603	1917	402	0	0	913	93	8676	402	10084
1997	45	17	54	274	328	770	2795	2267	1240	617	195	523	62	656	7072	1335	9125
1998	64	123	280	135	166	814	3118	4248	1435	1070	66	0	187	581	9615	1136	11519
1999	277	25	1	0	121	867	2420	1845	2626	390	0	18	302	122	7758	408	8589
2000	126	258	31	67	321	1704	2784	2488	929	0	0	0	384	418	7905	0	8708
2001	30	58	38	147	339	1953	3015	1681	283	217	27	0	88	524	6932	244	7788
2002	214	446	24	14	295	390	272	2712	2714	52	1	120	660	333	6088	173	7253
2003	218	459	57	41	50	793	3496	2134	3954	0	6	203	677	148	10377	209	11411
2004	238	17	0	317	378	840	1351	2624	789	685	0	1	255	695	5604	686	7240
2005	132	233	250	20	102	661	3006	792	2390	7	0	18	365	372	6849	25	7611
2006	32	0	491	39	478	967	2830	1024	735	241	14	53	32	1008	5556	308	6904
2007	7	772	413	2	209	1078	1839	1980	653	9	0	30	778	624	5550	39	6992
2008	28	0	0	75	356	2549	3017	2251	1009	86	66	0	28	431	8826	152	9437
2009	20	76	19	109	188	256	1304	1991	1499	538	84	27	96	316	5050	648	6111
2010	40	163	2	6	154	188	3513	2587	3167	43	134	31	203	161	9455	208	10028
2011	19	169	52	55	387	1807	2647	2524	1070	2	0	12	188	494	8048	14	8744
2012	255	2	40	89	8	63	2125	2731	1195	9	4	55	257	137	6114	68	6576
2013	238	835	39	20	23	2312	2441	2543	518	404	13	112	1073	82	7813	529	9498
2014	547	359	253	72	121	266	1583	723	852	96	0	198	906	446	3424	294	5070
2015	361	84	728	288	91	905	2011	1303	269	45	16	35	445	1107	4488	96	6136
2016	23	24	114	5	310	734	3646	1646	453	64	0	0	47	429	6478	64	7019

 Values are up to 1 decimal

MEAN	196	189	124	64	153	878	2614	2572	1486	272	37	89	385	342	7551	398	8678
P-Ann	22	21	14	7	17	101	301	296	171	31	4	10	44	39	870	45	1000
SD	170	212	155	97	132	618	875	979	919	438	68	131	267	246	1776	472	1795
CV	866	1123	1242	1502	866	704	334	380	618	1611	1837	1475	693	720	235	1185	206

Table 16: HARYANA, CHANDIGARH & DELHI SUBDIVISION, AREA 45698 SQ.KM 1.59 PER, 12 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	74	443	0	50	396	1422	1246	657	437	0	0	231	517	446	3762	231	4956
1872	342	65	103	37	161	788	2533	2328	602	2	0	231	407	301	6251	233	7192
1873	60	6	50	0	361	155	3094	950	1004	181	0	75	66	411	5203	256	5936
1874	79	72	334	0	136	1074	1998	528	600	0	0	20	151	470	4200	20	4841
1875	16	361	0	0	197	68	1364	1264	4372	77	0	7	376	197	7068	84	7726
1876	0	8	192	61	264	423	1920	366	1008	468	0	0	8	517	3717	468	4710
1877	393	377	231	197	279	770	377	77	388	339	110	596	770	707	1612	1045	4134
1878	180	298	60	479	414	260	1408	2717	192	2	0	127	478	953	4577	129	6137
1879	4	80	115	0	7	638	959	1838	486	29	0	222	84	122	3921	251	4378
1880	19	203	5	0	46	1194	2468	378	831	0	15	204	221	51	4871	219	5363
1881	57	73	373	162	113	489	2154	1678	86	5	0	0	130	648	4407	5	5190
1882	578	207	3	50	62	326	2054	521	695	0	0	0	785	115	3596	0	4496
1883	495	2	226	4	251	402	1117	49	1256	15	85	23	497	481	2824	123	3924
1884	62	1	32	2	57	1217	1192	1368	2043	176	6	0	62	91	5820	182	6155
1885	730	16	54	43	438	1246	1309	3748	96	6	0	434	746	535	6398	440	8120
1886	264	10	243	8	200	1047	2279	814	88	126	0	15	274	451	4227	141	5093
1887	181	46	7	0	0	302	2445	2907	1080	32	0	88	227	7	6734	120	7088
1888	124	212	64	54	159	270	1649	1315	1783	65	82	0	336	277	5017	147	5777
1889	347	422	72	22	156	272	1504	1899	128	0	0	0	769	250	3803	0	4822
1890	104	0	158	43	168	816	2572	1510	178	52	0	127	104	369	5076	179	5728
1891	443	57	384	25	231	208	844	2272	1006	197	2	0	500	640	4330	199	5669
1892	167	150	19	0	159	204	1406	2920	1770	2	0	224	317	178	6300	226	7021
1893	512	415	191	34	394	736	2123	606	1988	1	30	56	927	619	5453	87	7086
1894	707	139	150	13	97	1154	1679	1495	1670	0	197	609	846	260	5998	806	7910
1895	594	101	55	86	35	1335	991	1331	83	0	0	24	695	176	3740	24	4635
1896	47	205	31	0	146	469	1079	1254	85	28	33	107	252	177	2887	168	3484
1897	47	18	37	40	106	376	1478	1511	967	38	0	5	65	183	4332	43	4623
1898	3	635	0	3	336	618	1446	532	386	0	22	215	638	338	2982	237	4196
1899	3	84	1	48	56	1160	653	231	94	6	0	0	87	105	2138	6	2336
1900	159	23	28	258	87	240	1242	1773	2224	27	22	283	181	373	5479	332	6366
1901	348	253	129	0	75	175	1319	1330	115	3	0	53	601	204	2939	56	3799
1902	0	16	29	88	154	857	1577	926	623	103	0	0	16	271	3983	103	4372
1903	173	1	36	2	144	74	1580	1173	899	59	0	9	174	181	3726	68	4149
1904	84	6	484	9	267	292	967	1466	1085	12	108	218	90	760	3810	338	4998
1905	411	266	123	32	75	168	1007	210	924	0	0	46	677	230	2309	46	3262
1906	42	631	327	3	11	574	1260	1112	1713	0	0	35	672	341	4658	35	5708
1907	143	424	225	373	101	205	1157	1796	0	0	0	0	567	699	3158	0	4424
1908	295	68	0	73	242	162	2040	3549	102	12	17	4	363	315	5853	33	6564
1909	68	138	0	717	58	1176	2229	1076	1533	32	0	300	206	775	6014	332	7326
1910	199	85	1	26	19	654	1006	1420	1457	683	0	13	284	46	4537	696	5563
1911	703	9	594	7	0	677	336	472	2069	94	399	0	712	601	3554	493	5360
1912	517	113	80	112	40	233	1589	1371	1189	0	113	4	630	232	4382	117	5361
1913	13	468	215	31	716	1157	1483	777	238	5	3	113	481	962	3655	121	5218
1914	25	85	48	185	248	424	2294	1086	1998	197	30	2	110	481	5802	229	6622
1915	312	587	394	71	86	444	637	649	1054	71	0	13	899	551	2784	84	4318
1916	7	124	4	33	156	588	1395	2114	1070	645	0	0	131	193	5167	645	6136
1917	83	72	40	407	334	666	1511	2051	3472	1008	0	89	155	781	7700	1097	9733
1918	93	1	110	105	7	285	140	1476	47	3	26	0	94	222	1948	28	2293
1919	562	29	71	28	175	15	1642	1662	545	0	24	258	591	274	3864	282	5011
1920	105	142	147	2	278	617	1992	315	110	6	0	2	247	426	3034	8	3716
1921	197	7	0	32	2	161	1188	1692	1072	381	0	28	204	34	4113	408	4760
1922	142	50	15	27	10	890	1526	771	1813	7	0	261	192	52	5000	268	5512
1923	203	626	12	2	212	232	1744	2266	133	68	1	337	828	226	4375	406	5835
1924	483	186	21	14	91	241	845	1660	2297	478	2	192	669	126	5043	672	6510
1925	46	2	0	29	147	1619	2457	1129	78	54	135	2	47	176	5283	191	5698
1926	115	74	336	113	400	203	1816	2840	496	6	34	2	189	848	5355	42	6435
1927	0	360	241	77	163	137	1744	1444	348	246	15	356	360	481	3673	617	5131

1928	219	254	44	68	35	436	1369	846	411	49	213	156	473	147	3062	418	4100
1929	174	0	0	109	48	151	1337	1103	103	43	0	296	174	157	2694	339	3364
1930	282	98	42	18	21	821	2929	800	358	37	12	26	380	81	4908	75	5443
1931	9	198	159	7	89	112	2063	1252	969	257	0	0	206	255	4396	257	5115
1932	39	45	294	56	62	112	1335	1067	1482	0	0	191	84	412	3995	191	4683
1933	5	209	140	60	462	1023	1677	2817	3446	118	7	12	214	662	8963	137	9976
1934	195	18	562	7	20	677	1607	1903	138	0	0	70	213	589	4325	70	5196
1935	416	289	93	311	18	53	1994	1411	941	108	58	149	705	422	4399	315	5841
1936	17	194	88	12	59	1545	1378	1309	577	3	5	309	211	159	4809	317	5496
1937	6	813	56	195	97	483	1707	359	1429	9	3	87	819	348	3978	99	5244
1938	447	87	12	11	71	568	767	537	98	100	0	0	534	94	1970	100	2698
1939	12	414	237	8	1	976	681	326	406	0	0	0	426	246	2389	0	3061
1940	292	378	116	84	6	402	1158	1183	159	2	0	0	670	206	2901	2	3780
1941	590	63	28	0	229	1068	334	969	468	50	0	38	653	257	2839	88	3836
1942	303	465	23	124	77	443	2659	2162	1600	9	0	130	768	224	6863	139	7995
1943	182	21	24	108	103	308	1323	1195	1011	0	0	3	203	235	3837	3	4278
1944	255	421	403	304	16	619	1330	989	417	266	8	5	676	722	3355	279	5033
1945	429	0	18	89	128	396	1345	1447	3407	31	0	0	429	235	6595	31	7290
1946	4	99	21	47	293	754	1049	1496	190	176	16	118	102	361	3489	310	4263
1947	204	142	94	5	48	228	370	927	3078	96	0	44	346	147	4603	140	5236
1948	451	410	244	20	81	216	2277	2363	385	45	0	3	861	345	5241	48	6495
1949	39	379	11	16	89	117	3311	618	891	7	0	27	418	115	4937	34	5505
1950	238	84	212	3	44	142	2150	1345	1407	0	0	0	321	259	5044	0	5625
1951	110	5	354	170	58	205	583	1425	363	3	284	0	115	582	2576	287	3559
1952	97	222	143	19	150	525	1032	3051	31	0	0	24	319	312	4639	24	5294
1953	499	12	0	64	61	637	2658	1473	407	25	0	84	511	125	5175	109	5920
1954	246	952	93	5	55	358	1428	358	1482	570	0	0	1198	153	3626	570	5547
1955	353	17	64	120	145	597	923	1560	1454	1262	0	10	370	329	4534	1272	6505
1956	169	23	301	7	37	574	2533	1767	147	1286	41	10	191	345	5021	1337	6895
1957	423	0	294	30	62	330	1842	1018	1554	311	79	202	423	386	4744	592	6144
1958	66	8	67	35	44	147	1488	1675	3096	245	6	100	74	146	6406	351	6976
1959	331	81	39	0	72	318	1191	1764	1115	185	260	0	411	111	4388	445	5356
1960	107	0	302	72	45	408	2343	3786	116	430	0	107	107	419	6653	537	7716
1961	654	392	1	40	120	291	1259	2784	435	258	41	931	046	161	4769	392	6367
1962	206	129	85	18	13	107	1487	1179	2111	0	28	70	335	116	4884	98	5433
1963	21	57	78	26	65	596	599	3182	1043	0	144	64	78	169	5420	208	5875
1964	63	16	6	13	165	122	3986	1886	1270	0	5	86	79	184	7264	91	7618
1965	54	102	96	133	172	19	1359	1328	624	107	4	0	156	401	3329	110	3998
1966	21	225	56	9	463	1082	1058	2835	564	108	5	0	246	528	5539	113	6426
1967	0	23	408	10	54	174	1267	3376	1021	92	112	565	23	472	5838	769	7102
1968	170	187	181	0	29	392	3022	1190	1	56	0	36	357	210	4605	92	5263
1969	16	101	135	25	220	145	1611	1544	1692	0	15	0	117	380	4992	15	5504
1970	384	338	98	1	97	712	711	2115	1284	13	0	0	722	196	4822	13	5753
1971	145	155	31	83	462	531	1546	2821	526	119	1	0	300	576	5424	120	6420
1972	70	128	99	124	3	355	1515	2048	128	86	386	43	198	225	4045	514	4985
1973	159	53	21	7	428	590	1146	2279	534	227	0	149	212	456	4549	376	5593
1974	6	17	22	12	34	474	1970	883	82	78	0	119	23	68	3409	197	3696
1975	211	29	76	7	50	507	2356	3504	1550	181	0	0	240	133	7917	181	8471
1976	111	223	86	45	308	751	2277	3077	576	0	0	10	334	439	6681	10	7463
1977	240	34	17	220	217	391	3247	1588	823	83	3	91	274	454	6049	177	6953
1978	9	302	510	15	14	722	2326	1986	1267	26	21	7	311	539	6301	53	7205
1979	297	534	178	32	275	437	1601	667	255	20	6	56	831	485	2960	82	4358
1980	112	62	317	8	77	621	3035	653	700	175	48	272	174	402	5009	495	6080
1981	274	156	346	0	241	1104	2200	719	327	0	491	8	430	587	4350	498	5866
1982	177	172	682	319	609	312	1059	1739	38	32	26	111	349	1610	3148	169	5275
1983	496	52	131	966	361	349	2621	2360	893	64	0	94	548	1457	6223	158	8387
1984	14	155	12	46	3	553	1758	1891	765	0	0	3	169	61	4967	3	5200
1985	20	1	11	63	24	508	2752	1738	329	286	0	277	21	98	5327	563	6009
1986	60	295	128	23	392	800	734	1007	521	109	10	91	355	543	3061	210	4170
1987	211	269	166	75	515	397	213	703	111	20	0	54	480	756	1424	74	2734
1988	26	153	302	77	55	583	2867	2175	2232	0	3	98	179	434	7857	101	8571
1989	338	8	158	21	4	370	678	1091	197	12	70	144	346	183	2336	225	3091
1990	0	737	73	35	270	253	2303	1157	1785	126	169	233	737	378	5498	528	7141
1991	2	245	40	171	101	592	455	2101	220	16	16	166	247	312	3368	198	4125

1992	242	179	27	26	227	279	1109	1740	658	18	97	0	421	280	3785	115	4602
1993	67	173	132	78	91	529	3061	424	1440	0	0	0	240	301	5454	0	5995
1994	214	106	23	77	79	674	2986	1710	309	0	2	2	320	179	5679	4	6182
1995	611	266	174	65	3	566	1145	3393	1985	5	6	4	877	241	7089	15	8223
1996	212	462	145	9	82	1269	1044	2221	1302	269	0	7	674	235	5836	276	7022
1997	88	38	233	396	553	673	1379	2324	215	768	144	462	126	1182	4591	1374	7273
1998	32	269	330	104	90	847	1733	1590	1747	881	77	0	301	524	5917	957	7700
1999	314	11	11	0	207	532	1105	777	420	17	0	0	325	218	2834	17	3394
2000	176	329	25	20	206	724	1747	1009	167	0	6	1	505	251	3647	7	4410
2001	230	81	48	274	685	1629	1610	1279	106	227	0	8	311	1007	4624	235	6177
2002	121	333	94	20	788	305	244	857	1192	18	0	94	454	902	2598	112	4066
2003	180	320	35	15	107	276	3150	1429	591	0	1	116	500	157	5446	117	6219
2004	242	0	0	201	486	676	423	2903	227	596	0	12	242	687	4229	608	5766
2005	199	426	414	72	123	676	2149	682	1941	0	27	0	625	609	5448	27	6708
2006	23	4	387	15	264	582	1445	359	739	46	17	46	27	666	3125	109	3927
2007	13	969	553	26	236	938	736	1044	662	0	2	24	982	815	3380	26	5203
2008	24	7	0	155	1011	1393	1481	2015	1206	42	82	3	31	1166	6095	127	7418
2009	63	47	54	175	135	226	1068	498	1855	5	30	3	110	364	3647	38	4159
2010	69	130	8	7	45	389	2221	1782	1891	0	34	149	199	60	6283	183	6725
2011	5	296	92	109	376	839	854	1383	1390	0	0	0	301	577	4466	0	5344
2012	101	2	2	159	50	83	664	2793	733	33	10	60	103	211	4273	103	4690
2013	223	505	113	47	9	838	1284	2168	463	117	26	17	728	169	4753	159	5810
2014	215	181	316	89	289	311	653	326	861	133	1	118	396	694	2151	252	3493
2015	138	75	749	347	91	501	1290	774	365	24	15	2	213	1187	2930	41	4371
2016	0	12	216	6	289	407	1556	1152	168	34	0	13	12	511	3283	47	3852

 Values are up to 1 decimal

MEAN	189	181	138	79	170	543	1578	1501	916	118	32	85	371	388	4539	236	5536
P-Ann	34	32	25	14	30	98	285	271	165	21	5	15	67	70	819	42	1000
SD	179	197	153	129	173	359	739	835	819	222	75	122	260	283	1394	269	1448
CV	9461085	1107	1627	1015	661	468	556	894	1881	23631430	700	729	307	1139	261		

Table 17: PUNJAB SUBDIVISION, AREA 50376 SQ.KM 1.75 PER, 10 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	39	728	0	31	211	1691	1117	299	207	0	0	156	767	242	3314	156	4479
1872	278	178	114	154	241	467	2786	2376	770	6	0	122	456	509	6399	128	7492
1873	50	0	84	6	303	67	1700	1404	866	127	0	99	50	393	4036	225	4706
1874	366	314	226	42	9	878	906	715	790	0	0	0	680	277	3289	0	4246
1875	0	278	9	0	224	190	2353	3170	3745	167	0	56	278	233	9458	223	10192
1876	58	126	347	438	142	105	2466	1042	375	313	0	0	184	927	3988	313	5412
1877	665	713	234	344	209	303	773	302	1819	153	32711	1521378	787	3197	1632	6994	
1878	283	443	51	494	598	136	1907	3150	195	0	0	86	726	1143	5388	86	7343
1879	16	34	250	3	28	1175	598	1462	330	0	0	186	50	281	3565	186	4082
1880	80	571	0	7	56	1105	2974	474	323	0	36	210	651	62	4876	246	5836
1881	29	309	606	138	117	1061	3258	1916	249	6	0	0	338	861	6484	6	7689
1882	553	310	7	106	54	187	2233	1273	1483	0	0	2	863	167	5176	2	6208
1883	702	15	72	57	330	93	1213	706	1776	5	122	37	717	459	3788	164	5128
1884	51	145	162	16	67	684	2136	1306	1142	127	0	14	196	245	5268	141	5850
1885	716	64	87	254	700	384	952	1228	219	7	0	552	780	1041	2783	559	5163
1886	513	41	659	25	232	1531	2423	1008	230	367	18	171	554	916	5192	556	7218
1887	324	0	10	11	22	304	1162	2954	704	55	0	17	324	43	5124	72	5563
1888	318	136	92	23	6	383	1962	2118	602	45	125	7	454	121	5065	177	5817
1889	604	924	34	28	247	477	1884	1949	169	1	0	0	1528	309	4479	1	6316
1890	58	55	243	115	23	824	1977	1554	162	77	52	439	113	381	4517	568	5579
1891	882	146	773	101	56	90	1050	822	513	363	5	0	1028	930	2475	368	4801
1892	122	102	11	7	224	127	2462	2957	1606	0	0	253	224	241	7151	253	7871
1893	773	818	198	142	411	1209	2508	664	2537	0	0	421591	751	6918	42	9302	
1894	961	296	276	53	101	3359	2391	1612	694	0	60	6991257	430	8056	759	10502	
1895	689	223	116	151	52	1211	607	2040	0	9	1	3	912	319	3858	13	5102
1896	125	348	48	5	50	527	860	1509	162	37	14	114	473	103	3058	165	3799
1897	318	158	108	307	68	320	1374	1762	337	18	0	67	476	483	3793	85	4837
1898	941184	0	3	134	587	2641	526	645	0	0	3601278	137	4399	360	6173		
1899	0	103	9	62	78	611	854	553	40	22	0	0	103	149	2058	22	2332
1900	419	59	69	225	102	223	1710	3470	3255	0	0	303	478	396	8658	303	9835
1901	550	493	290	33	323	84	1738	1304	339	18	0	301043	646	3464	48	5202	
1902	0	10	119	125	329	484	1237	1119	811	102	0	0	10	573	3651	102	4336
1903	267	8	556	15	116	43	2323	1338	1456	90	0	95	275	687	5160	185	6306
1904	248	16	992	13	135	209	643	1138	727	108	99	286	264	1140	2717	493	4613
1905	586	385	234	4	16	134	1204	435	968	7	0	96	971	254	2741	103	4069
1906	52	875	548	23	32	414	1016	1826	1833	0	0	283	927	603	5089	283	6902
1907	3251209	537	469	42	206	913	2873	75	9	0	0	1534	1048	4066	9	6658	
1908	536	97	2	366	105	87	1887	3846	473	0	25	20	633	473	6293	45	7443
1909	343	264	1	541	26	767	2095	1514	2050	12	0	394	607	567	6426	406	8007
1910	264	66	9	63	29	1109	1424	2390	893	150	0	50	330	101	5816	200	6447
1911	1312	79	1094	54	9	786	220	1171	411	135	365	0	1390	1157	2588	500	5636
1912	504	48	61	254	111	78	1813	2056	385	0	207	21	552	426	4332	228	5538
1913	12	563	527	6	488	823	1274	1476	139	10	49	172	575	1021	3712	231	5539
1914	186	310	125	513	221	598	2748	764	2028	454	101	86	496	859	6138	641	8133
1915	359	611	561	82	62	198	525	732	1329	229	0	27	970	704	2784	256	4715
1916	17	208	24	53	66	320	2520	1968	697	157	0	0	225	143	5505	157	6030
1917	74	30	155	928	386	940	1816	2375	3610	1554	0	87	104	1469	8741	1640	11955
1918	40	5	721	489	2	348	426	1514	294	0	42	44	45	1212	2581	86	3925
1919	886	114	128	56	202	62	1727	1087	425	3	34	3431000	386	3300	380	5067	
1920	283	201	223	8	207	413	1690	1084	255	0	0	14	484	438	3442	14	4378
1921	175	34	3	4	11	177	1082	1169	590	315	0	202	209	18	3018	517	3762
1922	253	160	13	21	16	617	1418	924	1448	25	0	366	413	50	4407	391	5261
1923	424	715	64	105	461	288	2296	3047	112	33	28	4221139	630	5743	483	7995	
1924	362	492	26	8	143	14	1847	1189	1483	5	8	360	854	177	4533	373	5937
1925	202	17	10	77	214	1075	3207	1578	96	78	104	0	219	301	5956	182	6658
1926	170	77	479	207	315	30	1830	2480	532	1	14	52	247	1001	4872	67	6187
1927	4	362	164	61	212	234	1997	1015	173	85	31	284	366	437	3418	400	4622

1928	268	220	60	64	19	313	999	1191	615	8	312	346	488	143	3118	666	4415
1929	94	9	0	71	15	478	1599	1072	73	143	0	586	102	86	3221	729	4139
1930	319	263	68	150	93	558	2531	492	867	16	8	172	582	311	4448	196	5537
1931	148	272	224	33	174	72	1887	2315	724	143	0	2	420	431	4998	145	5994
1932	181	155	337	78	120	235	2090	1410	365	12	2	368	336	535	4100	382	5353
1933	59	249	338	62	280	310	1891	3490	2171	96	24	9	308	680	7861	129	8979
1934	185	11	342	25	44	460	1520	1204	120	0	0	111	196	411	3304	111	4022
1935	698	426	149	473	37	82	1622	1492	336	48	126	1111	124	658	3531	285	5599
1936	11	582	204	97	60	1013	1835	1568	547	145	3	241	593	361	4963	389	6306
1937	561	1040	122	431	135	582	2032	283	590	81	9	2681	096	688	3486	358	5628
1938	774	293	28	114	41	1324	1024	1162	44	138	0	510	67	183	3554	143	4947
1939	89	604	633	58	7	470	913	786	452	13	0	0	693	697	2621	13	4025
1940	363	415	118	29	36	750	1521	2286	236	0	3	8	778	183	4793	11	5765
1941	512	90	87	1	146	927	1547	1570	353	37	0	101	602	234	4397	138	5371
1942	216	623	174	153	160	463	1981	2659	1333	50	0	392	839	487	6436	442	8204
1943	630	16	90	80	101	208	1499	1274	346	2	0	1	646	271	3327	3	4247
1944	359	547	492	462	10	312	1806	1589	752	46	8	128	906	964	4459	182	6510
1945	802	0	191	134	34	314	1456	1299	3350	72	11	1	802	359	6419	84	7663
1946	17	185	58	28	213	708	1201	1442	40	343	98	436	202	299	3390	877	4769
1947	205	142	83	0	86	27	701	2359	3090	25	0	456	347	169	6176	481	7173
1948	160	527	706	44	23	496	1445	2089	498	0	10	213	687	773	4528	223	6211
1949	107	604	51	48	79	353	3573	918	536	11	0	45	711	178	5379	56	6324
1950	511	269	393	16	61	145	2041	2230	4135	0	0	0	780	469	8551	0	9801
1951	239	34	526	139	263	50	2045	1207	73	20	316	13	273	928	3375	348	4924
1952	198	261	296	11	53	645	1445	2315	0	3	1	30	459	360	4405	34	5258
1953	474	15	0	106	15	414	3171	1486	860	0	4	81	489	121	5931	85	6626
1954	3581	1046	102	0	17	263	1655	437	2509	222	0	0	1404	119	4864	222	6608
1955	309	43	234	166	165	404	1623	1853	1376	4254	0	37	352	565	5256	4291	10464
1956	208	75	443	48	1	466	2222	2271	205	1391	4	48	283	491	5164	1443	7382
1957	1080	63	304	80	128	176	1852	1795	749	160	95	3841	143	512	4572	639	6866
1958	74	44	75	31	0	306	1360	1116	3778	378	0	489	118	106	6560	867	7651
1959	417	244	94	77	233	236	2370	2022	1291	270	259	0	661	403	5919	529	7513
1960	145	0	271	45	20	481	2434	2339	107	3	0	254	145	336	5361	257	6099
1961	547	405	58	184	59	548	2417	2428	1077	252	28	58	952	301	6470	338	8061
1962	300	152	546	101	45	313	2255	1468	4413	21	197	69	452	692	8449	287	9880
1963	0	114	355	18	237	274	1332	1936	615	11	61	145	114	610	4157	217	5098
1964	98	28	114	70	238	111	3736	2490	1332	0	0	91	126	421	7669	91	8308
1965	140	235	175	270	728	26	2281	874	56	428	186	1	375	1173	3237	615	5399
1966	1	416	205	31	331	1106	1382	1817	1456	142	0	17	416	567	5761	159	6904
1967	12	128	779	0	15	94	1924	2628	574	212	42	793	140	794	5220	1047	7201
1968	209	335	267	19	14	441	2181	1601	2	152	14	69	544	300	4225	235	5304
1969	171	244	243	104	228	56	1560	1083	1101	24	45	0	415	574	3800	69	4859
1970	567	174	82	10	187	1390	825	2928	950	39	0	0	741	279	6093	39	7152
1971	69	331	19	87	424	788	2396	3788	3147	16	58	0	400	530	10119	74	11123
1972	116	226	93	84	0	345	1880	1482	295	14	121	131	342	177	4002	266	4787
1973	183	267	83	11	506	952	2744	3707	285	235	56	378	450	600	7688	669	9407
1974	32	56	25	29	106	478	1722	2403	1826	0	0	108	88	160	6429	108	6784
1975	182	370	215	39	161	697	2337	1939	3483	3	0	0	552	415	8456	3	9426
1976	337	466	225	123	88	675	1789	3507	1030	52	0	0	803	436	7001	52	8292
1977	388	18	38	416	371	1150	1973	1613	965	167	0	179	406	825	5701	346	7278
1978	50	252	745	73	14	994	2170	2059	676	17	93	6	302	832	5898	116	7148
1979	220	559	490	161	206	411	1667	539	495	23	86	40	779	857	3111	149	4897
1980	184	107	297	71	17	556	4448	956	710	296	74	561	291	385	6670	931	8277
1981	558	196	547	18	48	236	1927	459	206	8	475	0	754	613	2828	483	4678
1982	308	222	905	576	446	204	1000	2147	32	73	133	239	530	1927	3383	445	6285
1983	645	279	242	1207	520	244	1317	1998	568	162	0	17	924	1969	4127	179	7198
1984	28	618	174	111	3	517	2246	1711	1012	6	15	42	646	288	5486	62	6483
1985	35	15	60	225	80	503	2337	1839	335	508	7	292	50	365	5014	807	6236
1986	15	372	279	208	366	1149	1379	1499	416	146	101	119	387	852	4443	366	6048
1987	194	194	236	108	899	266	388	763	94	249	6	40	388	1243	1511	295	3437
1988	42	175	402	18	35	425	3522	1759	3975	6	19	334	217	455	9681	359	10712
1989	417	53	285	22	81	373	1946	1569	374	3	120	222	470	388	4262	345	5465
1990	26	527	400	62	74	174	2568	1814	1787	3	58	417	553	536	6343	478	7910
1991	0	336	195	332	74	793	972	1514	682	15	0	236	336	601	3960	251	5148

1992	430	297	186	16	128	470	1404	1497	579	57	117	18	727	330	3949	191	5198
1993	109	151	334	85	174	467	3949	267	1112	0	12	0	260	593	5795	12	6660
1994	373	209	36	74	131	503	2105	2943	1260	13	0	48	582	241	6811	61	7694
1995	505	595	185	113	6	601	1934	3356	1415	34	20	111	100	304	7306	65	8775
1996	292	529	220	58	45	1632	911	2412	728	440	0	5	821	323	5683	445	7272
1997	196	61	99	422	408	620	1293	2651	242	432	250	409	257	928	4806	1091	7083
1998	13	520	423	192	31	391	1641	1160	1595	432	0	0	533	646	4787	432	6398
1999	484	43	34	0	192	350	1360	1018	475	15	2	1	527	226	3203	18	3974
2000	340	355	158	14	243	833	2011	690	445	1	10	8	695	415	3979	19	5108
2001	142	13	93	277	495	1023	2173	821	309	0	29	101	155	865	4326	130	5476
2002	35	82	83	79	284	420	957	1253	1345	24	0	50	117	446	3975	74	4612
2003	121	666	199	70	33	538	1302	1105	786	0	47	68	787	302	3731	115	4935
2004	412	60	0	68	324	511	640	1517	125	389	17	60	472	392	2793	466	4123
2005	409	528	233	100	61	455	1769	951	1319	8	3	0	937	393	4494	11	5836
2006	73	20	283	5	156	649	1777	1249	1051	161	106	81	93	444	4726	348	5610
2007	19	580	483	78	66	833	946	1336	344	11	33	59	599	627	3459	103	4788
2008	169	35	0	240	628	2079	931	2970	703	116	7	40	204	868	6683	163	7917
2009	128	155	157	233	147	151	1771	1060	762	77	50	0	283	537	3744	127	4691
2010	39	131	8	0	34	415	2344	1156	864	37	0	218	170	42	4779	255	5246
2011	27	220	86	227	134	1174	1043	2022	1122	1	9	25	247	447	5361	35	6090
2012	280	27	9	229	6	56	679	692	1130	18	3	69	307	244	2557	90	3197
2013	98	553	59	33	28	1277	1020	2555	302	217	53	64	651	120	5154	334	6259
2014	219	202	340	323	317	301	1249	570	1691	100	6	178	421	980	3811	284	5496
2015	204	356	641	312	167	552	1277	864	730	58	6	8	560	1120	3423	72	5174
2016	75	68	324	8	248	597	1486	1413	183	12	3	12	143	580	3679	27	4429

 Values are up to 1 decimal

MEAN	274	273	228	132	159	534	1750	1634	936	133	40	139	548	520	4856	313	6238
P-Ann	43	43	36	21	25	85	280	261	150	21	6	22	87	83	778	50	1000
SD	249	257	224	175	165	453	735	814	950	396	79	183	351	346	1660	442	1746
CV	909	939	983	1327	1035	848	420	498	1015	2963	1944	1317	641	666	341	1409	279

Table 18: WEST RAJASTHAN SUBDIVISION, AREA 195086 SQ.KM 6.77 PER, 9 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	29	0	0	12	276	820	1582	360	169	8	60	14	29	288	2931	82	3329
1872	5	1	0	1	115	210	660	1705	318	0	0	44	6	116	2893	44	3059
1873	15	118	6	25	198	330	1029	974	655	84	23	2	133	229	2988	109	3459
1874	0	0	9	0	82	308	858	976	299	0	0	0	0	90	2441	0	2531
1875	4	214	42	0	175	99	1048	475	1248	18	2	52	218	217	2870	72	3377
1876	0	16	13	20	119	146	1255	629	846	20	7	0	16	152	2876	27	3071
1877	68	168	26	33	163	126	373	88	148	205	25	306	235	221	735	536	1729
1878	29	47	4	53	382	269	1072	1406	252	5	0	0	76	439	2999	5	3519
1879	15	161	25	1	28	739	278	1852	402	53	0	41	176	53	3271	94	3595
1880	0	54	0	0	47	262	942	730	505	71	8	37	54	47	2439	116	2656
1881	0	36	119	42	87	186	1455	1309	219	5	0	23	36	248	3169	28	3480
1882	144	34	0	1	143	366	1576	612	496	0	3	1	178	144	3050	4	3376
1883	181	8	19	0	419	51	779	7	722	149	38	0	189	438	1559	186	2373
1884	7	68	0	0	73	649	1086	743	1147	37	4	0	75	73	3625	41	3814
1885	107	0	2	40	207	205	637	740	46	0	0	28	107	249	1628	28	2012
1886	14	2	28	9	93	833	821	856	91	23	0	0	16	130	2601	23	2770
1887	87	0	0	26	9	188	769	633	7	13	0	0	87	35	1597	13	1732
1888	102	123	38	2	0	221	348	1653	0	16	0	0	225	40	2222	16	2503
1889	22	39	38	30	269	647	361	1478	28	0	0	0	61	337	2514	0	2912
1890	0	4	13	4	5	322	1108	681	131	25	18	174	4	21	2242	217	2485
1891	76	0	158	44	135	26	1056	249	298	40	0	0	76	337	1629	40	2082
1892	148	10	0	0	164	281	1323	1289	955	11	0	165	158	164	3848	176	4346
1893	151	110	40	11	222	752	1659	930	1193	22	269	38	261	273	4533	329	5397
1894	261	39	23	3	65	932	928	888	455	18	0	125	300	91	3203	143	3736
1895	97	5	131	9	16	298	670	926	88	0	0	6	102	156	1982	6	2246
1896	2	15	54	0	17	591	901	903	1	0	110	59	17	71	2396	169	2653
1897	28	0	16	58	39	56	949	1874	419	81	0	0	28	113	3298	81	3520
1898	1	238	0	0	130	244	1182	257	423	0	0	59	239	130	2106	59	2534
1899	0	0	0	40	8	268	189	8	20	0	0	3	0	48	484	3	536
1900	5	0	0	82	130	84	449	939	1241	8	40	65	5	212	2713	113	3043
1901	70	29	5	0	67	37	803	520	0	12	0	7	99	72	1360	19	1550
1902	0	0	0	2	40	462	320	565	561	44	0	0	0	42	1907	44	1994
1903	20	37	60	0	67	102	1490	789	364	26	0	4	57	127	2745	30	2959
1904	30	28	199	2	171	248	411	709	287	15	28	73	58	372	1654	116	2201
1905	72	51	10	20	0	35	253	42	592	0	0	16	122	30	922	16	1091
1906	1	416	103	0	1	179	536	767	939	0	0	28	416	104	2421	28	2969
1907	2	259	103	55	68	116	762	2491	1	0	0	0	261	226	3370	0	3857
1908	85	3	0	76	98	275	2201	2549	703	92	14	0	88	174	5728	105	6096
1909	24	48	0	182	21	328	1807	738	1047	4	0	201	72	203	3920	205	4400
1910	33	0	0	43	0	648	564	1600	135	8	0	0	33	43	2947	8	3030
1911	41	0	410	3	1	332	30	114	374	58	27	0	41	413	850	85	1390
1912	157	0	1	16	54	230	1022	992	151	88	40	0	157	71	2395	128	2750
1913	0	95	52	3	182	580	353	527	308	0	9	89	95	237	1768	97	2198
1914	38	34	2	82	58	557	1041	460	554	40	61	0	72	142	2612	101	2927
1915	68	307	115	3	9	168	226	203	193	218	0	0	375	127	790	218	1510
1916	30	3	7	34	232	185	866	1452	1162	213	0	0	33	273	3665	213	4183
1917	15	25	14	169	604	738	850	2201	1850	749	0	8	40	787	5639	757	7223
1918	8	0	11	6	5	29	2	285	18	0	0	3	8	22	334	3	366
1919	98	19	13	97	110	7	846	1262	372	0	34	21	117	220	2487	55	2879
1920	36	36	0	31	582	518	868	506	7	0	0	0	72	613	1899	0	2584
1921	0	0	0	1	0	58	1230	396	592	15	0	3	0	1	2276	18	2295
1922	11	11	0	9	56	154	800	288	815	36	0	15	22	65	2057	51	2195
1923	42	69	8	1	171	87	1118	1284	46	2	0	23	111	180	2535	25	2851
1924	52	12	2	4	96	89	812	470	1014	0	0	119	63	102	2385	119	2670
1925	0	0	0	0	33	501	461	219	45	33	38	0	0	33	1226	71	1330
1926	58	3	256	16	261	36	903	1612	1101	0	0	10	61	533	3652	10	4256
1927	0	114	0	6	80	88	1168	1143	218	54	7	280	114	86	2617	341	3158

1928	0	22	8	15	4	107	816	1390	186	119	54	1	22	27	2499	174	2722
1929	32	0	0	51	118	59	1516	1170	48	0	0	60	32	169	2793	60	3054
1930	28	7	0	31	183	457	895	350	88	37	3	0	35	214	1790	40	2079
1931	3	15	22	0	198	108	557	2528	144	161	0	0	18	220	3336	161	3736
1932	9	1	59	6	67	77	1217	1135	53	0	0	3	10	132	2482	3	2626
1933	0	103	42	124	148	552	439	2015	217	16	0	0	103	313	3223	16	3656
1934	2	0	140	0	68	468	431	1852	112	0	0	35	2	208	2863	35	3108
1935	107	14	50	127	8	31	1312	254	427	43	10	6	120	185	2024	59	2389
1936	0	52	21	1	0	585	459	920	317	0	107	18	52	21	2281	125	2480
1937	0	364	8	9	5	119	1636	23	548	22	0	169	364	22	2326	191	2903
1938	16	0	0	3	29	600	556	678	29	3	0	9	16	32	1862	12	1923
1939	0	318	60	3	0	117	139	540	76	0	0	0	318	63	872	0	1253
1940	256	111	116	8	18	258	555	1770	12	18	1	0	367	142	2595	19	3123
1941	103	0	9	0	97	219	793	636	216	9	0	29	103	105	1864	38	2111
1942	57	145	0	38	237	194	1297	1006	609	0	0	63	202	275	3105	63	3645
1943	22	0	0	37	7	115	1681	274	451	0	0	0	22	44	2521	0	2587
1944	148	80	146	113	5	147	1451	3706	110	11	0	0	228	264	5414	11	5916
1945	264	0	0	38	273	351	1620	642	418	2	0	0	264	311	3030	2	3608
1946	0	2	0	0	50	397	422	999	73	12	0	16	2	50	1891	28	1971
1947	26	24	0	0	5	0	201	1731	810	139	0	0	50	5	2742	139	2936
1948	239	165	55	7	0	84	935	822	26	2	0	5	404	62	1867	7	2340
1949	39	30	0	0	31	296	1132	586	355	17	0	9	69	31	2369	26	2494
1950	24	7	34	0	27	44	1636	748	589	0	0	0	31	61	3017	0	3109
1951	0	0	43	87	131	266	376	1069	30	0	175	0	0	261	1741	175	2177
1952	0	30	15	9	34	183	1165	887	0	0	0	3	30	58	2235	3	2326
1953	73	0	0	13	35	225	785	2255	322	0	0	4	73	48	3587	4	3712
1954	18	162	3	0	16	241	979	274	942	152	7	0	180	19	2436	159	2794
1955	30	11	47	4	93	210	114	2541	877	152	0	3	41	144	3742	155	4082
1956	24	0	88	8	4	205	2202	917	133	452	0	10	24	100	3456	462	4043
1957	187	0	46	0	161	220	668	1091	59	52	64	0	187	207	2037	116	2548
1958	48	0	0	0	47	109	689	293	1379	33	193	76	48	47	2470	302	2866
1959	11	33	24	51	93	215	1339	716	1049	68	51	0	44	168	3319	119	3649
1960	7	0	43	7	2	287	986	799	35	0	0	84	7	52	2107	84	2250
1961	92	152	0	101	55	1134	544	699	1257	31	12	12	244	156	3634	55	4089
1962	10	10	124	23	38	53	1193	809	609	0	0	26	20	185	2664	26	2895
1963	0	13	97	0	20	45	144	1092	284	17	31	3	13	117	1564	51	1745
1964	12	7	16	0	153	314	1509	1283	81	4	2	7	19	169	3186	13	3388
1965	25	16	48	15	37	50	1434	501	80	40	1	0	41	100	2065	41	2247
1966	4	148	16	0	215	323	612	749	511	44	5	0	152	231	2195	49	2627
1967	0	0	647	3	35	325	619	975	765	72	31	267	0	685	2684	370	3739
1968	54	102	36	0	63	0	748	143	12	1	0	0	156	99	903	1	1159
1969	7	18	9	27	27	52	383	283	199	17	0	0	25	63	917	17	1022
1970	29	201	50	9	70	388	523	1542	678	0	0	0	230	129	3130	0	3490
1971	12	3	0	2	228	684	643	556	155	32	0	0	15	230	2038	32	2315
1972	32	9	0	44	33	439	272	1226	33	1	0	3	41	77	1970	4	2092
1973	1	0	0	0	162	169	617	2861	382	8	0	34	1	162	4029	42	4234
1974	0	0	0	11	241	249	1024	180	47	84	0	10	0	252	1500	94	1845
1975	7	2	17	0	16	776	1357	1171	1447	355	0	15	9	33	4751	370	5163
1976	66	69	4	19	128	550	1224	1258	1050	0	194	0	135	151	4082	194	4562
1977	69	18	0	31	117	850	1578	418	594	0	8	6	87	148	3440	14	3688
1978	0	141	70	39	0	434	2084	805	155	3	151	14	141	109	3478	168	3895
1979	52	276	57	16	353	254	996	1244	178	170	135	75	328	426	2671	380	3805
1980	6	0	82	18	122	377	1073	182	150	25	17	83	6	222	1782	125	2135
1981	39	31	127	1	81	143	1039	606	359	2	377	2	70	209	2147	381	2807
1982	136	40	168	457	612	139	853	941	34	82	32	21	176	1237	1967	135	3515
1983	19	9	26	415	444	377	1880	1274	292	219	0	1	28	885	3823	220	4956
1984	0	53	0	24	0	137	562	933	450	5	0	0	53	24	2082	5	2164
1985	7	0	10	184	174	70	1230	676	112	118	0	27	7	368	2088	145	2608
1986	7	102	8	0	217	185	975	469	14	36	0	0	109	225	1642	36	2012
1987	38	16	52	0	457	356	234	342	50	0	0	51	54	509	982	51	1596
1988	35	33	74	23	0	234	1193	905	388	39	0	0	68	97	2720	39	2924
1989	108	0	17	1	0	305	989	1120	232	10	0	4	108	18	2646	14	2786
1990	0	225	0	9	260	229	2078	2103	373	29	0	5	225	269	4783	34	5311
1991	7	37	0	68	17	223	559	454	92	0	0	1	44	85	1328	1	1458

1992	72	86	17	0	51	147	1346	1283	1325	78	46	0	158	68	4101	124	4451
1993	20	27	17	41	42	469	1880	41	541	21	2	0	47	100	2931	23	3101
1994	97	1	7	232	32	362	1419	1090	462	1	0	0	98	271	3333	1	3703
1995	136	64	6	137	16	149	1961	1108	118	129	0	0	200	159	3335	129	3824
1996	32	32	19	29	262	1727	688	914	258	10	0	0	64	310	3586	10	3971
1997	25	12	40	77	160	594	621	1608	274	745	53	13	37	277	3096	811	4222
1998	1	94	96	183	5	706	831	580	691	727	3	0	95	284	2808	730	3917
1999	81	50	2	0	560	211	717	809	53	137	0	0	131	562	1790	137	2620
2000	9	5	11	9	55	86	1683	376	45	19	15	0	14	75	2190	34	2313
2001	9	4	11	85	367	614	1246	742	48	36	0	0	13	463	2650	36	3161
2002	5	7	18	23	134	251	59	251	197	0	23	65	12	175	758	88	1033
2003	15	225	5	9	9	279	1895	633	59	0	0	0	240	23	2865	0	3129
2004	41	0	0	52	0	274	219	913	82	128	0	3	41	52	1488	131	1712
2005	10	97	42	74	274	288	727	277	620	0	0	0	107	390	1912	0	2409
2006	0	0	178	6	101	440	651	2320	249	71	3	30	0	285	3660	104	4049
2007	0	437	256	19	78	320	904	691	449	0	0	23	437	353	2364	23	3176
2008	12	1	6	47	192	612	544	1254	175	1	1	132	13	245	2585	134	2977
2009	53	34	68	6	97	310	1045	295	84	0	0	0	87	171	1734	0	1992
2010	22	26	3	20	31	573	1134	995	1228	23	275	60	48	53	3930	358	4390
2011	0	81	12	5	64	108	903	1270	1066	0	0	0	81	81	3347	0	3509
2012	4	0	0	130	91	90	490	1556	1013	8	0	12	4	221	3149	20	3394
2013	88	271	90	58	48	511	1482	1586	706	153	5	6	359	196	4285	164	5004
2014	0	32	33	128	409	242	1008	637	794	4	0	0	32	570	2681	4	3287
2015	21	10	334	186	156	512	2090	645	345	11	0	0	31	676	3592	11	4310
2016	1	19	74	4	40	319	712	2047	106	157	0	0	20	118	3184	157	3479

 Values are up to 1 decimal

MEAN	41	55	43	36	114	307	934	949	404	55	20	25	96	194	2597	101	2989
P-Ann	13	18	14	12	38	102	312	317	135	18	6	8	32	65	868	33	1000
SD	55	86	80	65	129	251	495	643	391	119	54	52	101	182	983	140	1079
CV	1356	1556	1859	1809	1132	818	530	677	968	2177	2707	2059	1048	937	378	1388	361

Table 19: EAST RAJASTHAN SUBDIVISION, AREA 147128 SQ.KM 5.11 PER, 17 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	45	0	0	17	314	2208	4082	814	436	27	135	21	45	331	7540	183	8098
1872	8	3	0	3	137	584	1742	3924	879	0	0	80	11	140	7129	80	7360
1873	30	106	7	37	249	989	2659	2147	1726	254	52	4	136	293	7521	309	8260
1874	1	0	11	0	130	835	2525	2197	756	1	0	0	1	141	6313	1	6456
1875	9	221	48	2	215	227	2839	1098	3463	83	0	92	230	265	7627	175	8297
1876	0	17	13	22	168	398	3416	1078	1707	72	25	3	17	203	6599	100	6919
1877	89	140	28	41	210	388	820	245	489	743	36	442	229	279	1942	1221	3671
1878	54	52	7	30	452	562	2362	3059	890	0	0	1	106	489	6873	1	7468
1879	32	232	23	2	8	1379	981	4691	1074	229	0	63	264	33	8125	292	8714
1880	0	43	0	0	79	700	2718	1534	1507	338	21	73	43	79	6458	431	7012
1881	1	44	163	42	57	507	3676	2406	511	22	0	46	45	262	7100	68	7474
1882	102	16	0	3	129	1200	4062	1238	1334	2	15	4	118	132	7834	21	8105
1883	174	0	42	1	506	799	1663	839	1994	77	0	0	174	549	5295	77	6095
1884	94	7	6	0	33	1020	1892	1920	2675	61	8	47	100	39	7507	116	7763
1885	76	0	3	27	234	1282	2265	3364	144	124	0	132	76	264	7055	255	7651
1886	38	0	31	15	264	1107	2468	2150	396	282	12	0	38	310	6121	294	6763
1887	96	0	3	5	11	813	3748	3487	836	16	98	53	96	19	8884	167	9165
1888	149	188	37	26	2	280	1874	3007	313	170	79	0	336	65	5473	249	6125
1889	84	88	41	53	244	1360	2025	4371	45	96	0	0	172	338	7801	96	8407
1890	0	0	73	18	38	1536	2038	1639	499	69	3	75	0	129	5712	147	5988
1891	150	0	183	12	102	177	2059	1590	1436	80	0	0	150	297	5261	80	5789
1892	216	12	0	0	116	634	2584	3258	2821	28	0	127	228	116	9297	155	9796
1893	198	166	174	4	314	1906	2320	2189	1850	34	448	19	364	491	8265	501	9622
1894	198	13	26	4	36	2117	2327	1655	1368	49	0	292	210	66	7467	341	8085
1895	153	9	108	90	1	715	1895	2026	302	24	0	24	162	199	4938	48	5347
1896	7	16	1	0	33	1318	2019	2082	130	5	212	130	23	34	5549	347	5953
1897	6	0	4	14	58	342	2363	2589	811	81	0	0	6	76	6105	81	6267
1898	0	230	2	3	152	640	2111	1003	1002	0	0	167	230	157	4756	167	5310
1899	0	0	0	62	218	1795	1185	58	95	4	0	12	0	280	3133	16	3429
1900	5	0	0	180	229	110	2087	3321	2273	14	15	142	5	409	7791	171	8376
1901	198	96	31	9	76	188	1611	1653	50	128	0	5	294	116	3502	133	4045
1902	43	2	0	17	106	336	2097	1150	1662	138	0	32	45	123	5245	170	5583
1903	17	12	15	0	150	158	2163	2182	1752	118	0	0	29	165	6255	118	6567
1904	57	61	193	0	314	462	2633	2156	542	4	53	156	117	506	5793	213	6631
1905	37	89	40	32	32	178	1286	258	800	0	0	5	125	104	2522	5	2757
1906	2	229	55	0	28	620	2602	935	1781	20	0	16	231	83	5938	36	6288
1907	56	388	52	142	140	117	1295	3160	25	0	0	0	443	334	4597	0	5375
1908	144	17	4	6	53	473	3623	3707	681	1	16	2	161	63	8484	19	8727
1909	46	15	0	447	33	1248	2953	2150	964	18	0	182	61	480	7315	200	8056
1910	69	11	0	20	19	1341	1074	2555	1317	367	10	0	80	39	6287	377	6783
1911	134	8	203	8	1	798	478	786	1559	50	151	3	142	211	3621	204	4179
1912	70	89	28	27	46	340	3324	2251	464	16	53	26	159	101	6379	95	6733
1913	0	80	3	0	482	1180	1517	1149	449	13	3	200	80	485	4295	216	5076
1914	0	8	6	19	67	1008	3331	1205	1054	124	62	0	8	92	6598	185	6884
1915	226	342	326	14	80	365	723	1109	338	712	0	8	568	420	2535	720	4243
1916	0	31	0	6	113	923	1521	4437	1343	281	8	0	31	119	8224	289	8663
1917	30	85	37	96	877	1565	2417	3755	3443	1063	0	0	115	1010	11180	1063	13368
1918	34	0	24	3	40	308	584	1617	241	0	36	0	34	67	2750	36	2887
1919	230	0	5	55	174	347	2461	3500	541	4	235	78	230	234	6849	317	7630
1920	102	40	34	11	445	1564	2944	853	105	3	0	0	142	490	5466	3	6101
1921	166	0	0	5	0	202	1827	1496	1753	22	0	4	166	5	5278	26	5475
1922	51	3	0	6	67	679	2156	1273	1826	20	14	133	54	73	5934	167	6228
1923	23	87	50	1	187	56	3361	2715	595	27	5	85	110	238	6727	117	7192
1924	117	68	0	0	89	347	3013	2718	2532	371	33	273	185	89	8610	677	9560
1925	1	0	0	1	175	1363	2240	480	217	16	202	0	1	176	4300	218	4695
1926	63	3	315	27	203	137	2144	3811	2035	0	0	4	66	545	8127	4	8742
1927	0	107	1	15	66	211	2582	3227	594	60	260	336	107	82	6614	656	7459

1928	26	164	2	0	32	282	2274	2295	432	768	107	45	190	34	5283	920	6427
1929	26	16	0	46	76	613	2671	2062	373	7	0	84	42	122	5718	90	5974
1930	144	3	8	1	266	887	2910	1656	415	634	0	0	147	275	5868	634	6924
1931	2	30	10	0	74	127	2352	4072	434	575	3	13	32	84	6985	591	7692
1932	10	12	108	26	67	263	2311	1769	727	20	0	4	22	200	5070	24	5317
1933	0	48	22	214	331	2275	1835	2858	2036	115	137	18	48	567	9004	270	9889
1934	46	0	123	10	3	1273	1121	4653	1176	0	23	70	46	136	8222	93	8498
1935	141	70	1	130	18	364	3118	1259	1746	162	13	129	211	149	6486	304	7151
1936	10	55	170	3	60	1316	1289	1364	1141	0	175	30	65	233	5110	205	5613
1937	0	142	1	12	70	1032	4103	644	1139	45	3	56	142	83	6918	104	7247
1938	42	0	3	0	69	1366	2126	1136	114	105	0	0	42	72	4742	105	4961
1939	12	134	98	0	0	649	1160	1231	844	9	0	0	146	98	3884	9	4137
1940	319	179	181	37	51	557	1695	3061	339	16	76	0	498	269	5652	92	6511
1941	128	82	19	1	120	484	1032	2643	498	8	0	33	210	140	4657	41	5047
1942	156	92	0	22	106	569	4288	3854	1100	0	0	5	248	128	9811	5	10192
1943	79	0	0	44	50	680	3882	903	1302	0	0	2	79	94	6767	2	6942
1944	207	75	256	104	37	782	2795	3767	370	83	4	16	282	397	7714	103	8496
1945	160	0	0	67	122	1364	3993	2376	1473	32	0	0	160	189	9205	32	9587
1946	0	125	0	16	111	1595	1863	4602	1149	99	133	254	125	127	9209	486	9947
1947	63	37	2	7	5	96	1322	2846	3243	106	0	55	100	14	7507	161	7781
1948	371	129	15	9	19	507	2467	2342	1042	90	150	21	500	43	6358	261	7162
1949	19	16	0	3	69	406	3081	916	1292	58	25	0	35	72	5695	83	5885
1950	8	3	41	0	78	199	3523	1918	2353	0	0	2	11	119	7993	2	8125
1951	17	0	84	32	101	644	1060	1383	109	21	246	0	17	217	3196	267	3697
1952	11	60	15	24	3	1250	3816	2135	114	0	0	27	71	42	7315	27	7455
1953	343	0	0	45	31	701	1563	2905	605	31	0	6	343	76	5774	37	6229
1954	44	194	53	0	2	590	2751	1207	2590	248	6	0	238	55	7138	254	7685
1955	83	38	6	1	26	942	797	3666	2442	840	0	0	121	33	7847	840	8841
1956	82	11	143	2	5	434	4122	2244	733	1796	0	56	93	150	7533	1852	9628
1957	299	0	122	7	33	748	3054	2268	788	140	28	12	299	161	6858	180	7498
1958	76	6	8	12	22	376	2972	1764	2556	127	105	8	82	42	7668	240	8031
1959	42	1	0	25	387	569	3092	2568	1492	439	77	0	42	412	7721	516	8692
1960	39	0	55	19	69	714	1729	3223	226	52	0	20	39	143	5891	72	6146
1961	122	65	1	13	52	379	2004	2242	3326	202	56	18	187	66	7951	276	8480
1962	12	14	89	37	64	89	2767	1784	1573	0	12	86	26	190	6213	98	6527
1963	10	20	24	37	24	468	1780	3066	889	114	191	13	30	85	6203	318	6636
1964	0	0	0	0	400	465	1793	2895	752	2	0	5	0	400	5905	7	6312
1965	61	56	22	30	34	76	2100	1149	786	55	0	0	117	86	4111	55	4369
1966	5	45	0	1	157	882	1380	1718	827	5	40	0	50	158	4807	45	5060
1967	0	0	601	16	8	913	1759	2411	1623	9	11	350	0	624	6706	370	7701
1968	58	23	64	1	65	31	3019	1959	119	35	0	1	81	130	5128	36	5375
1969	42	11	16	25	70	178	2339	2521	1150	1	22	0	52	111	6188	23	6374
1970	39	252	18	1	38	1062	1718	3041	1443	59	0	0	291	57	7263	59	7671
1971	23	9	1	19	443	1863	2913	1825	1534	100	5	0	31	463	8135	105	8735
1972	3	56	1	18	17	726	837	2361	159	17	9	0	59	36	4083	26	4204
1973	35	39	20	0	109	397	2719	3541	2103	69	0	21	74	129	8760	90	9053
1974	0	0	0	1	274	334	3071	1566	252	932	0	56	0	275	5223	987	6486
1975	37	16	24	0	40	935	2356	2885	1750	303	0	0	53	64	7926	303	8346
1976	73	43	0	16	128	903	2009	2956	1287	1	449	0	116	144	7155	450	7865
1977	208	25	1	111	293	1407	3717	2224	1679	29	22	3	233	405	9027	54	9719
1978	0	131	78	43	0	1157	3874	2785	644	60	109	99	131	121	8460	268	8980
1979	95	348	49	32	343	612	2313	1513	93	57	701	26	443	424	4531	783	6181
1980	1	10	33	0	60	1347	2164	1506	321	18	8	158	11	93	5338	184	5625
1981	76	11	101	1	102	643	3202	1458	719	103	351	12	87	204	6022	466	6779
1982	222	44	114	218	401	368	1614	2543	130	162	659	59	266	732	4655	880	6534
1983	37	17	0	415	380	714	2507	2322	1364	335	0	3	54	795	6906	338	8093
1984	8	9	0	7	16	468	1704	2611	1145	0	0	0	17	23	5928	0	5968
1985	26	0	30	66	52	210	1561	2255	332	1032	0	111	26	148	4358	1143	5675
1986	38	216	9	8	265	525	3360	1636	239	65	0	2	254	282	5760	67	6363
1987	111	37	15	3	261	460	548	2377	219	128	0	236	148	279	3604	364	4395
1988	34	6	82	36	43	798	2061	2208	835	166	2	6	40	160	5902	174	6276
1989	96	0	44	1	1	616	1496	2939	447	0	18	7	96	46	5498	25	5665
1990	0	333	5	13	157	752	2281	2739	1598	91	52	2	333	175	7369	145	8023
1991	3	13	6	129	27	240	2026	1975	424	0	29	55	15	162	4665	84	4927

1992	79	18	40	0	110	244	2131	2218	1140	343	50	0	97	150	5733	393	6373
1993	2	93	38	60	44	1020	2816	1118	1280	78	4	0	95	142	6234	82	6553
1994	250	10	3	116	61	1313	2846	3032	1358	0	9	0	260	180	8549	9	8998
1995	346	27	75	4	31	368	2750	2909	995	80	0	38	373	110	7021	118	7623
1996	52	57	25	22	130	1424	2550	3450	1409	159	0	0	109	177	8833	159	9278
1997	7	2	30	161	254	677	1970	2405	994	580	139	190	9	445	6046	909	7409
1998	2	30	43	60	36	614	2024	1479	1592	549	36	0	32	139	5708	585	6465
1999	32	101	0	0	98	763	2317	967	1050	312	0	4	133	98	5097	316	5644
2000	0	15	5	47	336	386	2639	881	397	9	0	2	15	388	4303	11	4717
2001	6	0	7	103	348	1181	3362	1336	79	140	0	1206	6	458	5958	1346	7768
2002	23	181	0	9	80	833	206	1282	413	9	2	52	204	89	2734	62	3090
2003	78	263	2	2	25	1047	2512	1534	991	0	0	39	341	29	6083	39	6493
2004	31	0	0	11	193	402	1438	4267	345	361	2	0	31	204	6452	363	7050
2005	3	37	52	134	124	764	2740	675	1786	0	0	0	40	309	5965	0	6315
2006	4	0	143	3	259	932	2218	3220	938	43	8	4	4	405	7308	55	7772
2007	23	252	129	40	141	576	2174	2043	987	0	0	17	275	310	5780	17	6382
2008	3	0	5	91	312	1393	1695	1489	1088	50	51	2	3	408	5665	103	6179
2009	6	2	19	3	92	375	2268	1668	511	232	119	15	8	114	4822	366	5310
2010	33	44	1	12	6	337	2024	2959	1562	6	791	85	77	19	6882	882	7859
2011	6	154	0	5	139	1540	1901	3186	1501	0	0	0	160	144	8128	0	8432
2012	27	0	0	69	196	103	2158	4237	1426	29	0	0	27	265	7924	29	8245
2013	72	268	16	51	111	1031	3463	2960	719	293	20	10	340	178	8173	323	9014
2014	305	128	104	92	149	218	1903	2401	1273	86	17	8	433	345	5795	111	6683
2015	151	1	681	175	42	1141	3055	1397	215	40	7	13	152	897	5808	60	6918
2016	7	4	46	0	114	731	3354	3769	430	279	0	0	11	160	8284	279	8734

 Values are up to 1 decimal

MEAN	68	59	47	35	130	743	2318	2238	1048	143	52	51	128	213	6347	247	6937
P-Ann	9	8	6	5	18	107	334	322	151	20	7	7	18	30	915	35	1000
SD	82	83	92	63	134	484	847	1015	762	251	124	122	120	179	1632	303	1687
CV	12101400	1955	1807	1030	652	365	453	727	1746	23802365	938	840	257	1222	243		

Table 20: WEST MADHYA PRADESH SUBDIVISION, AREA 175317 SQ.KM 6.09 PER, 22 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	261	41	3	7	203	3226	2871	2758	2927	0	129	29	302	213	11782	158	12455
1872	15	5	52	120	42	1189	3193	3288	1642	114	5	95	20	214	9312	214	9760
1873	115	241	13	3	71	624	2609	2727	3051	10	1	12	356	87	9011	23	9477
1874	15	0	0	1	70	2367	4101	3132	1291	1	0	1	15	71	10891	2	10979
1875	8	98	0	7	51	1542	4275	2275	2805	102	0	53	106	57	10897	155	11216
1876	0	5	11	0	34	668	4358	2554	2896	17	0	0	5	45	10476	17	10542
1877	385	170	38	61	93	1261	1801	1498	430	713	114	469	555	192	4990	1296	7033
1878	47	74	9	34	279	666	3632	3225	1957	117	4	1	121	322	9480	122	10045
1879	11	75	0	0	220	1645	1496	3400	1894	717	0	0	86	220	8435	717	9458
1880	0	0	0	0	73	1134	2168	2024	2795	400	234	5	0	73	8121	639	8833
1881	1	35	217	1	59	1933	4145	2645	1078	205	42	46	36	277	9801	293	10406
1882	2	6	0	14	85	2238	4515	1571	2037	18	127	10	8	99	10361	155	10622
1883	125	0	15	0	274	1881	2363	1587	2940	515	0	0	125	289	8771	515	9700
1884	227	13	6	3	28	1300	3351	2988	3277	184	0	137	240	37	10916	321	11514
1885	76	28	24	58	125	2161	2927	2555	326	369	23	866	104	207	7969	1258	9538
1886	18	8	19	2	196	1625	2932	2001	365	1074	8	224	26	217	6923	1306	8472
1887	150	0	5	16	55	1407	4152	3125	1922	450	397	69	150	76	10606	916	11747
1888	206	215	34	25	1	719	2731	2983	1452	72	64	0	421	60	7885	136	8502
1889	9	56	2	79	176	1904	2592	4289	651	294	0	0	65	257	9436	294	10052
1890	0	0	39	71	4	2196	2921	2334	1643	53	71	79	0	114	9094	203	9411
1891	73	28	26	53	10	311	2719	3156	3551	308	0	0	101	89	9737	308	10234
1892	97	55	0	7	48	1012	3120	2749	2994	260	25	109	152	55	9875	394	10476
1893	257	90	242	22	463	2287	1323	2913	1976	124	477	16	347	727	8499	617	10190
1894	65	55	46	19	1	2428	3031	2120	2063	889	43	221	120	66	9642	1153	10981
1895	179	84	72	87	0	1816	1859	2305	824	127	0	73	263	159	6804	200	7426
1896	4	1	0	1	6	1876	3039	3045	76	0	62	183	5	7	8036	245	8293
1897	217	3	2	7	11	1342	2572	3147	1459	68	0	0	220	20	8520	68	8828
1898	0	243	0	3	12	1294	3312	2911	1359	9	2	66	243	15	8876	77	9211
1899	0	30	0	20	132	3101	1639	359	304	1	0	6	30	152	5403	7	5592
1900	44	2	0	34	22	473	2630	4023	2447	0	4	149	46	56	9573	153	9828
1901	292	54	65	26	44	408	2224	3307	369	59	4	24	346	135	6308	87	6876
1902	136	36	0	37	54	368	3672	1862	1839	338	176	126	172	91	7741	640	8644
1903	37	1	0	0	167	550	2830	2577	2514	391	0	0	38	167	8471	391	9067
1904	31	170	184	0	137	894	2613	1535	1236	42	10	94	201	321	6278	146	6946
1905	33	30	12	11	35	347	3355	1470	1780	1	0	2	63	58	6952	3	7076
1906	0	105	77	0	9	1631	3353	2048	2560	18	0	13	105	85	9592	31	9814
1907	67	277	8	121	45	560	2124	3120	150	0	70	1	344	174	5954	71	6543
1908	116	4	97	33	3	992	3355	3148	468	9	2	31	120	133	7963	42	8258
1909	34	13	3	253	85	1604	2677	2423	982	24	0	262	47	341	7686	286	8360
1910	19	0	9	7	12	1836	1934	2727	2635	411	364	0	19	28	9132	775	9954
1911	123	3	47	0	3	1224	1191	1501	2146	110	465	0	126	50	6062	575	6813
1912	26	88	3	7	18	509	3079	2738	969	20	632	16	114	28	7295	667	8105
1913	0	92	24	0	275	1697	2968	2019	644	2	6	219	92	299	7328	226	7946
1914	0	21	104	35	149	1370	3704	1747	1574	76	113	10	21	288	8395	199	8903
1915	118	273	350	48	74	1373	1732	1943	839	852	15	58	391	472	5887	925	7675
1916	0	62	0	0	184	1836	2341	4723	1527	715	205	0	62	184	10427	920	11592
1917	95	183	41	11	692	1894	3110	3209	2637	996	0	0	278	743	10850	996	12867
1918	6	22	29	1	153	1062	1069	2094	405	2	103	22	28	183	4630	127	4968
1919	416	14	9	40	128	1554	3446	5415	796	366	234	24	430	177	11211	624	12442
1920	560	6	11	2	255	1261	3100	1293	636	0	0	0	566	268	6290	0	7123
1921	311	0	0	0	0	1312	1953	2087	2399	24	0	0	311	0	7751	24	8086
1922	251	39	0	0	108	1314	3044	1698	2255	7	330	133	290	108	8311	470	9179
1923	14	22	125	23	35	108	5323	2602	1794	10	12	80	36	183	9827	102	10148
1924	152	32	4	1	43	475	3258	3060	2113	779	0	208	184	48	8906	987	10125
1925	0	0	0	0	278	1627	2890	1421	461	12	458	15	0	278	6399	485	7161
1926	193	6	94	42	123	220	2674	4310	1487	117	0	16	199	259	8691	133	9282
1927	0	25	49	9	6	795	3406	2181	778	340	898	164	25	64	7160	1402	8651

1928	3	298	25	0	11	731	3865	2170	492	812	10	510	301	36	7258	1332	8927
1929	56	76	0	60	6	1104	2750	2038	983	11	0	49	132	66	6875	60	7133
1930	52	3	0	25	71	1001	3791	1860	1673	340	18	1	55	96	8325	358	8834
1931	26	8	5	1	17	463	2909	4630	2139	1279	66	61	34	23	10141	1406	11604
1932	0	26	150	12	11	536	4654	1255	3040	208	6	0	26	173	9485	214	9898
1933	3	74	20	126	347	2164	2769	3664	2863	183	140	91	77	493	11460	414	12444
1934	62	0	81	17	5	1321	2277	4262	3504	32	274	58	62	103	11364	364	11893
1935	55	20	0	77	9	971	3746	1604	2087	224	15	97	75	85	8408	336	8905
1936	38	64	187	29	116	1712	1525	2365	2130	5	1045	17	102	332	7732	1067	9233
1937	8	132	93	102	46	1739	4466	1709	1764	238	18	90	140	241	9678	346	10405
1938	77	0	24	13	259	2980	3538	2305	346	777	0	0	77	296	9169	777	10318
1939	66	15	98	3	6	648	3153	3132	1372	64	27	14	81	107	8305	105	8598
1940	109	46	71	16	155	1774	3989	3440	640	480	241	22	155	242	9843	742	10982
1941	228	209	65	13	15	525	1822	3777	1070	5	0	0	436	93	7194	5	7729
1942	280	294	2	13	19	1449	5361	2940	1608	0	0	140	574	34	11358	140	12106
1943	274	0	0	25	264	1358	3586	1870	1796	573	0	0	274	289	8610	573	9746
1944	175	146	364	31	6	1137	5084	5105	1185	608	8	16	321	401	12511	632	13865
1945	219	0	0	48	29	2020	3650	2318	2075	35	0	0	219	77	10063	35	10393
1946	0	117	0	40	18	2656	3319	3996	1044	71	1148	250	117	58	11015	1469	12659
1947	183	26	19	62	35	549	3282	3667	2836	173	2	151	209	115	10334	326	10985
1948	338	56	15	10	3	1478	4101	3827	2261	224	716	4	393	28	11667	944	13033
1949	0	30	2	12	229	801	3116	1436	2986	498	21	0	30	243	8339	519	9130
1950	14	16	180	3	26	359	3870	1754	2409	8	0	167	30	209	8392	175	8806
1951	49	0	50	6	32	888	2183	2020	853	212	66	0	49	88	5944	278	6358
1952	9	75	14	26	8	1726	3975	2413	332	10	0	98	84	48	8446	108	8686
1953	225	1	0	16	23	874	2732	3000	1175	127	0	0	226	39	7781	127	8173
1954	125	130	55	0	2	646	3235	1704	4674	183	0	0	255	57	10259	183	10754
1955	235	18	4	10	31	1638	940	4563	2448	1397	0	0	253	45	9589	1397	11284
1956	133	7	41	0	519	1130	4033	2554	1210	944	119	56	140	560	8927	1119	10746
1957	122	3	372	52	40	985	2190	3443	1202	332	14	11	125	464	7820	357	8766
1958	37	4	8	38	12	850	3953	2759	2744	518	159	8	41	58	10306	685	11090
1959	283	4	3	42	243	753	4000	2989	2782	749	49	0	287	288	10523	798	11897
1960	232	0	108	27	94	1217	2264	4095	473	438	0	7	232	229	8048	445	8954
1961	254	4	4	7	78	626	3148	3343	5565	1082	85	14	258	89	12682	1181	14209
1962	102	57	84	83	42	135	3123	1975	3006	1	83	192	159	209	8239	276	8882
1963	74	52	33	44	52	705	2354	3727	1564	291	311	20	126	129	8350	622	9227
1964	0	0	17	0	86	1043	3176	3073	1776	22	0	16	0	103	9068	38	9209
1965	54	28	30	35	23	320	3238	1497	1268	87	8	96	82	88	6323	191	6683
1966	63	12	33	1	39	594	2261	2325	895	6	254	24	75	73	6075	284	6507
1967	0	0	353	25	22	1438	2223	2669	2443	29	3	848	0	400	8773	880	10053
1968	54	32	123	9	4	339	4332	2714	904	142	0	1	86	136	8289	143	8654
1969	86	6	1	42	14	401	3646	4022	2109	0	459	6	92	57	10178	465	10792
1970	175	132	85	6	152	2559	1801	3220	2603	35	0	0	307	243	10183	35	10768
1971	35	19	9	46	198	1766	4357	1984	2203	439	3	0	54	253	10310	442	11059
1972	0	43	1	5	25	964	1578	4118	662	22	86	12	43	31	7322	120	7516
1973	1	46	0	1	25	712	4924	4875	2721	238	0	102	47	26	13232	340	13645
1974	0	14	5	5	194	425	2853	3681	602	984	0	24	14	204	7561	1008	8787
1975	22	69	3	3	22	1242	2660	3455	2237	495	0	0	91	28	9594	495	10208
1976	106	15	23	61	58	1660	2728	3509	1795	9	614	30	121	142	9692	653	10608
1977	32	79	73	40	181	1607	3014	3227	2078	142	404	25	111	294	9926	571	10902
1978	34	175	109	61	1	1503	3603	4198	788	86	127	342	209	171	10092	555	11026
1979	246	335	82	1	171	1054	1971	2490	262	78	1099	32	581	254	5777	1209	7821
1980	11	13	5	2	7	1995	1921	3821	532	24	1	308	24	14	8269	333	8640
1981	59	3	109	1	174	1152	2671	2774	1211	240	255	153	62	284	7807	648	8802
1982	369	58	40	31	106	572	2665	3992	996	201	630	18	427	177	8225	849	9678
1983	36	1	4	152	236	926	2610	3728	2847	608	3	16	37	392	10111	627	11167
1984	199	104	0	1	3	677	1721	5642	641	121	0	9	303	4	8681	130	9118
1985	18	2	4	98	72	668	2207	3252	1594	1479	0	0	20	174	7721	1479	9394
1986	58	415	36	10	91	1428	4538	2358	330	42	3	10	473	137	8654	55	9319
1987	296	187	14	0	97	781	1428	3331	597	510	127	323	483	110	6137	960	7691
1988	39	13	13	58	73	1316	2893	2486	1911	520	10	0	52	144	8606	530	9332
1989	39	0	179	0	74	1248	1360	3369	979	11	0	48	39	253	6956	59	7307
1990	14	102	15	0	309	1611	2639	4098	2421	298	28	138	115	324	10769	463	11673
1991	1	43	27	29	11	1269	3487	2471	153	1	44	27	44	67	7380	72	7563

1992	6	7	1	0	87	566	2278	3145	1020	611	32	0	13	88	7009	642	7753
1993	0	54	90	12	30	1089	3400	2167	2892	239	14	58	54	132	9548	311	10045
1994	187	75	7	127	13	2478	3534	3728	1568	58	43	0	262	147	11308	101	11818
1995	196	10	255	37	19	747	3628	2523	1625	256	0	114	206	311	8523	370	9410
1996	100	97	40	19	35	476	4424	3904	1537	593	24	0	197	94	10341	617	11249
1997	30	2	66	74	85	896	3174	3023	1086	487	717	907	32	225	8178	2111	10547
1998	16	12	106	66	20	914	2680	2535	2902	477	123	0	28	192	9031	600	9851
1999	40	381	3	0	164	1307	2884	1607	3669	861	15	0	421	166	9467	876	10931
2000	4	21	7	21	837	857	3266	1487	415	26	0	8	25	865	6025	34	6948
2001	60	2	43	56	236	2015	2892	1788	249	542	0	0	62	335	6944	542	7883
2002	12	214	30	37	73	1183	443	3462	1379	35	99	13	226	140	6467	147	6980
2003	21	248	1	13	8	1225	3069	2020	2446	4	9	36	269	22	8760	48	9100
2004	218	0	0	9	123	644	2089	4334	515	379	31	0	218	132	7581	410	8342
2005	74	9	127	50	41	814	3433	1123	1587	17	0	17	83	218	6957	34	7292
2006	0	0	489	15	237	799	2893	4859	2067	140	33	11	0	741	10617	184	11542
2007	4	174	39	10	124	937	3916	2410	1331	0	17	87	178	173	8594	104	9049
2008	13	0	8	25	54	1846	2447	1998	1372	168	84	0	13	87	7663	251	8015
2009	89	0	7	25	103	638	3009	1756	1418	867	655	238	89	135	6821	1760	8804
2010	16	69	6	1	8	651	2771	3126	1268	131	392	13	85	15	7816	536	8452
2011	0	14	3	17	47	2221	3123	3564	1755	3	0	0	14	67	10663	3	10747
2012	94	0	0	17	65	470	4204	3623	1818	17	0	0	94	82	10114	17	10307
2013	19	365	88	37	5	3087	4970	3988	977	547	3	23	384	130	13022	573	14108
2014	298	404	48	18	19	358	3457	1945	1904	55	33	155	702	85	7664	243	8694
2015	468	75	558	179	27	1839	4387	2551	549	86	3	9	543	763	9326	98	10731
2016	60	2	25	0	136	1300	4435	3639	996	323	0	0	62	161	10370	323	10916

 Values are up to 1 decimal

MEAN	94	64	53	28	95	1224	3033	2837	1648	272	116	74	159	177	8743	464	9544
P-Ann	9	6	5	2	9	128	317	297	172	28	12	7	16	18	916	48	1000
SD	111	91	92	37	123	657	926	967	966	322	225	146	150	157	1691	421	1758
CV	1172	1422	1716	1335	1295	536	305	340	586	1180	1932	1967	942	890	193	908	184

Table 21: EAST MADHYA PRADESH SUBDIVISION, AREA 135156 SQ.KM 4.69 PER, 15 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	98	137	10	16	264	3617	4371	2046	2518	0	60	69	235	290	12552	129	13206
1872	60	178	129	191	12	2338	4189	4598	1816	343	18	144	238	332	12941	505	14016
1873	99	79	133	10	133	530	4368	2779	2884	6	7	150	178	276	10561	163	11177
1874	118	61	46	1	151	3737	4467	4982	1732	113	0	6	179	198	14918	119	15414
1875	66	144	0	16	99	2744	6276	2854	2249	388	0	6	210	115	14123	393	14842
1876	0	20	174	0	81	802	6101	2842	2547	127	0	0	20	255	12292	127	12693
1877	823	301	232	541	352	2111	2165	2323	1125	687	64	2681	1124	1125	7724	1018	10992
1878	319	256	27	183	357	782	3201	3563	1750	235	85	13	575	567	9296	333	10771
1879	1	179	1	0	388	2112	2603	4924	1490	673	1	0	180	388	11129	674	12372
1880	0	71	0	0	26	2192	4477	1613	2394	596	256	23	71	26	10676	875	11647
1881	7	45	494	23	75	1723	4352	3977	1247	164	79	1	52	592	11299	244	12187
1882	5	25	5	95	109	4130	5741	1989	1272	377	635	1	30	209	13132	1012	14383
1883	276	0	83	0	143	2385	3650	1400	2853	338	21	0	276	226	10288	358	11149
1884	134	143	20	12	39	2322	5411	4883	3722	383	0	143	277	71	16338	526	17212
1885	237	185	138	108	311	2987	4446	3331	598	392	631	271	422	557	11362	1726	14067
1886	46	33	189	13	194	1931	4387	1658	806	1426	47	250	79	396	8782	1723	10980
1887	708	0	5	82	33	1610	5823	4227	2188	1089	77	63	708	120	13848	1229	15905
1888	362	133	26	2	8	1444	4401	5350	1447	75	213	0	495	36	12642	288	13461
1889	47	233	46	224	56	2429	3656	4839	1435	696	4	0	280	326	12359	700	13665
1890	0	10	192	86	11	2721	4073	3424	2491	81	230	108	10	289	12709	419	13427
1891	105	150	192	78	83	323	4156	3555	5628	296	0	0	255	353	13662	296	14566
1892	128	341	5	14	39	1404	5129	3539	2252	380	5	3	468	58	12324	388	13239
1893	539	235	543	22	439	3019	2418	3693	3399	725	493	0	774	1004	12529	1218	15525
1894	125	234	73	16	18	2957	4370	3487	2605	1856	335	196	359	107	13419	2387	16272
1895	191	291	247	77	15	3458	2602	3133	622	75	0	29	482	339	9815	104	10740
1896	0	1	6	6	5	2616	4081	4110	294	0	191	199	1	17	11101	390	11509
1897	457	139	38	118	66	1399	3220	4340	1697	417	0	0	596	222	10656	417	11890
1898	0	611	4	24	22	2056	5110	4416	1924	62	7	17	611	50	13506	85	14252
1899	27	113	3	87	112	1707	2568	1902	557	3	0	0	140	202	6734	3	7078
1900	487	30	3	92	104	420	3183	4217	3219	147	0	273	517	199	11039	420	12175
1901	522	433	160	98	79	546	3623	5913	1977	59	0	0	955	337	12058	59	13409
1902	127	96	0	46	22	286	4463	2363	2326	181	248	48	223	68	9438	477	10206
1903	60	41	5	12	393	766	2719	3691	2567	1638	0	0	101	410	9743	1638	11892
1904	26	134	481	0	90	1098	4498	3212	1178	536	31	155	160	571	9986	722	11438
1905	184	91	148	104	121	315	3110	2694	2341	28	0	18	275	373	8460	46	9153
1906	153	256	304	0	17	2331	4374	1870	3670	67	10	77	409	321	12245	154	13128
1907	75	992	61	365	47	1046	2241	5314	177	0	81	271	1067	473	8778	108	10425
1908	187	233	98	22	25	1130	4993	5901	1456	129	5	50	420	145	13479	184	14228
1909	212	160	38	754	76	2261	4030	2306	1226	1	0	373	372	868	9822	373	11437
1910	92	1	3	34	104	2240	2268	3629	2823	424	778	0	93	141	10960	1202	12396
1911	240	7	161	0	30	2172	1957	3660	2809	624	525	0	247	191	10598	1149	12185
1912	108	479	3	38	32	342	4713	3519	1668	1	512	27	587	73	10242	540	11442
1913	10	675	230	0	237	2179	2636	3024	541	30	5	178	685	467	8380	213	9744
1914	0	68	589	263	221	1053	5667	3630	1374	124	14	33	68	1073	11724	170	13036
1915	157	343	437	97	81	1635	3996	4158	1937	1224	90	32	500	615	11726	1345	14186
1916	0	252	0	23	109	2787	2628	4485	2696	1794	237	0	252	132	12596	2030	15011
1917	58	457	357	65	702	2389	4173	4441	3442	544	0	59	515	1124	14445	603	16687
1918	7	61	35	11	275	2516	1959	3415	980	3	170	127	68	321	8870	300	9559
1919	1186	303	97	116	254	1608	4462	7424	1093	777	132	391	489	466	14587	947	17491
1920	162	14	176	48	144	1078	4487	2294	985	1	0	0	176	368	8844	1	9389
1921	253	54	0	11	0	2341	2671	3751	2792	7	0	0	307	11	11555	7	11880
1922	477	53	2	52	8	1604	4369	3222	2572	85	414	32	530	62	11767	531	12890
1923	39	90	201	41	28	267	4894	6727	1968	369	4	81	129	270	13856	454	14709
1924	323	113	109	24	22	645	5226	3445	2560	242	129	120	436	154	11876	491	12957
1925	1	0	0	0	384	1847	5853	2532	2034	128	532	0	1	384	12266	660	13311
1926	198	31	615	450	450	263	3460	5062	5085	1319	16	10	229	1515	13870	1345	16959
1927	104	217	423	15	42	1039	4218	3641	797	723	773	95	321	480	9695	1591	12087

1928	133	527	95	11	35	1585	4700	1939	594	939	0	551	660	141	8818	1490	11109
1929	370	165	0	94	11	886	5252	4030	1261	152	0	511	535	105	11429	662	12732
1930	19	46	37	304	102	1421	5703	2749	1075	373	61	98	65	443	10948	532	11988
1931	135	253	102	26	57	689	3248	4785	2689	1461	266	20	388	185	11411	1747	13731
1932	0	238	127	35	54	1011	5516	2173	2194	275	30	0	238	216	10893	305	11652
1933	109	421	186	298	822	1530	3586	2966	2822	545	75	62	530	1306	10904	682	13422
1934	180	0	92	12	0	2496	3241	4479	3659	174	236	138	180	104	13875	548	14707
1935	195	137	2	193	9	1049	5932	2689	2015	22	3	136	332	204	11685	161	12382
1936	134	362	214	112	173	2164	4150	3998	2225	550	679	57	496	498	12537	1286	14817
1937	0	623	103	465	33	2032	5108	3155	1533	1057	29	12	623	601	11828	1098	14150
1938	433	95	30	22	245	2822	3915	3123	1860	1003	0	0	528	297	11720	1003	13548
1939	317	228	224	103	0	1852	4824	4059	1623	76	0	0	545	327	12358	76	13306
1940	41	132	199	36	135	1053	4698	4112	767	324	38	320	173	370	10630	682	11855
1941	281	361	131	57	83	1413	2198	2939	1237	71	0	3	642	271	7787	74	8774
1942	378	845	49	53	7	1497	6081	3851	1937	30	0	1491	223	109	13366	179	14877
1943	1099	23	0	115	257	1152	4185	3859	2371	625	14	0	1122	372	11567	639	13700
1944	224	749	825	92	24	1098	5522	3826	1585	517	48	67	973	941	12031	632	14577
1945	470	12	0	267	94	2411	4283	2705	2511	247	0	9	482	361	11910	256	13008
1946	0	258	5	145	112	3121	3603	4571	916	293	1188	59	258	262	12211	1540	14271
1947	451	282	194	32	12	920	5195	4427	2712	254	0	18	733	238	13253	272	14497
1948	720	117	39	50	15	2164	3667	3857	3104	202	967	0	837	104	12792	1169	14902
1949	0	125	34	20	203	1367	3248	3069	3000	1263	0	7	125	257	10684	1270	12336
1950	195	334	374	14	31	886	5032	4101	1186	87	2	219	529	419	11205	308	12460
1951	213	198	461	147	73	1201	3134	3836	2238	391	0	0	411	681	10409	391	11892
1952	4	256	93	28	26	1808	3848	4013	1046	159	0	41	260	147	10715	200	11322
1953	222	46	0	71	40	378	4262	3249	1591	210	0	2	268	111	9480	212	10071
1954	152	121	71	33	5	906	3627	3101	3064	145	0	1	273	109	10698	146	11226
1955	723	39	22	32	49	2310	2836	4653	3036	1247	0	1	762	103	12835	1248	14947
1956	111	73	21	3	389	1975	5455	4331	1946	577	715	199	184	413	13707	1490	15795
1957	237	14	697	200	59	603	4020	3684	1359	60	0	10	251	956	9666	70	10943
1958	74	173	140	48	11	890	4779	2997	2415	1154	82	2	246	199	11081	1238	12764
1959	382	57	0	85	362	907	4472	4005	2325	695	0	0	439	447	11709	695	13290
1960	538	0	260	56	23	1320	3793	4999	676	976	0	3	538	339	10787	979	12644
1961	345	188	67	76	86	1470	4658	4463	3986	723	137	242	533	229	14577	1102	16441
1962	99	245	231	116	94	610	3305	3694	2363	35	28	691	344	441	9972	754	11511
1963	91	153	97	175	87	1453	2785	3735	2526	329	71	7	244	359	10499	407	11508
1964	1	72	54	9	45	1470	3565	4274	2103	182	9	1	73	108	11412	192	11785
1965	72	14	191	143	19	713	1988	1944	1984	117	2	81	85	353	6629	200	7268
1966	126	35	30	15	156	2081	2645	2688	629	28	313	180	161	201	8043	521	8926
1967	6	0	832	29	48	1212	3822	4989	2531	49	910	28	6	909	12554	1086	14555
1968	414	192	141	45	0	1237	3700	2891	1424	217	0	35	606	186	9252	252	10296
1969	118	43	23	23	143	426	5527	4145	2041	10	490	0	161	189	12139	500	12989
1970	561	350	344	22	106	1961	2451	4630	2345	59	0	0	911	472	11387	59	12829
1971	433	124	132	148	496	3842	4753	2839	1687	1083	0	9	557	776	13121	1092	15546
1972	11	143	2	26	8	568	2118	5012	1295	278	368	51	154	36	8993	697	9880
1973	3	502	2	18	16	549	4560	4220	1981	794	0	79	505	36	11310	873	12724
1974	10	81	32	3	62	1083	3139	4039	424	860	77	0	91	97	8685	937	9810
1975	140	133	224	0	31	1936	3595	4456	1863	801	0	0	273	255	11850	801	13179
1976	130	37	64	188	146	824	4036	3274	1837	2	135	21	167	398	9971	158	10693
1977	97	73	115	79	153	2989	3214	4637	1803	598	861	85	170	347	12643	1544	14704
1978	237	780	380	102	30	1983	3220	4113	2502	245	103	494	1017	512	11817	842	14189
1979	595	513	53	7	130	1109	2609	2252	744	109	725	271	1108	190	6714	861	8873
1980	96	45	66	31	25	2522	3797	5237	1723	69	0	400	141	122	13279	469	14011
1981	172	20	269	9	167	1385	3434	2724	2009	49	51	197	192	445	9552	297	10486
1982	820	139	132	21	296	908	2825	6293	1572	221	237	18	959	449	11597	476	13481
1983	119	191	0	96	242	1037	3427	3470	4029	581	0	60	310	338	11963	641	13252
1984	632	417	0	92	46	940	2249	5917	1429	152	0	0	1049	138	10535	152	11874
1985	483	97	1	83	77	1319	4400	3718	1325	922	0	0	580	161	10762	922	12425
1986	115	905	259	36	138	1933	3090	2505	896	182	25	434	1020	433	8424	641	10517
1987	396	512	157	3	160	543	2624	3198	2956	794	175	133	908	320	9321	1102	11651
1988	136	177	72	87	42	2241	3428	3104	1255	208	0	31	313	200	10028	239	10781
1989	12	0	314	1	26	2022	2105	3332	1207	8	18	208	12	341	8666	234	9253
1990	25	364	121	52	464	3005	3843	3015	3587	450	5	115	389	637	13450	570	15046
1991	71	141	209	81	62	990	3268	4219	570	44	59	35	212	352	9047	138	9749

1992	9	2	21	13	201	478	2731	4643	2582	80	2	0	11	235	10433	82	10762
1993	0	155	285	26	100	1296	2707	2742	4168	271	1	1	155	411	10913	273	11752
1994	184	140	0	214	33	2799	5831	5233	1813	379	10	0	324	246	15676	389	16636
1995	317	136	716	60	79	835	3768	3400	1441	126	40	219	453	855	9444	385	11137
1996	389	408	77	89	52	802	3199	3510	1641	633	0	0	797	218	9152	633	10800
1997	105	0	0	130	120	1025	4125	3771	1728	750	830	1164	105	250	10649	2744	13748
1998	306	92	311	86	67	1028	2937	3389	2321	446	454	0	398	464	9675	900	11437
1999	41	375	1	0	132	1334	3756	3724	4681	952	1	2	416	133	13495	954	14998
2000	2	7	12	15	485	1954	3988	1981	1131	4	4	0	9	512	9053	8	9583
2001	129	19	91	280	310	2643	5062	2482	706	1002	34	0	148	681	10893	1036	12757
2002	38	404	46	12	143	1209	697	4910	1584	447	32	13	442	201	8400	492	9535
2003	17	770	53	24	14	1245	3290	3571	4538	235	17	72	787	91	12643	324	13845
2004	309	30	2	77	101	2173	1979	3164	976	265	74	0	339	180	8292	339	9150
2005	300	96	325	42	67	1529	5785	2674	2331	237	0	32	396	434	12319	269	13417
2006	0	0	669	142	320	587	4390	3360	960	164	157	47	0	1131	9297	368	10796
2007	4	222	143	63	120	922	2641	1696	1943	40	7	29	226	326	7202	76	7830
2008	6	117	143	58	84	2605	3024	3103	1105	203	7	0	123	285	9837	210	10455
2009	218	4	24	55	86	531	3459	1801	2086	885	736	199	221	165	7876	1820	10084
2010	36	78	3	11	55	702	3806	2634	2065	276	185	51	114	69	9207	511	9902
2011	15	56	28	135	128	3305	3396	3119	2225	14	0	0	71	291	12045	14	12421
2012	554	25	12	32	37	699	4327	3865	1724	68	50	15	579	81	10615	133	11408
2013	36	519	196	154	0	3185	5184	5443	942	1241	14	11	555	350	14753	1266	16924
2014	340	646	202	76	43	1121	3209	2322	1386	621	25	125	986	321	8038	771	10116
2015	395	143	833	384	110	1701	2969	2768	711	421	16	8	538	1327	8148	444	10459
2016	214	21	199	1	312	1209	6253	4631	1386	319	0	0	235	512	13479	319	14545

 Values are up to 1 decimal

MEAN	202	195	148	82	123	1602	3893	3648	1967	408	127	96	397	354	11111	633	12496	
P-Ann	16	15	11	6	9	128	311	291	157	32	10	7	31	28	889	50	1000	
SD	221	205	184	110	139	862	1099	1075	979	410	232	194	303	283	1938	521	2119	
CV	1098	1053	1247	1339	1126	538	282	294	497	1006	182	120	10	763	797	174	823	169

Table 22: GUJARAT SUBDIVISION, AREA 86034 SQ.KM 2.99 PER, 11 STN
 Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	0	0	6	154	1038	1756	3348	563	0	331	40	0	160	6705	371	7236
1872	0	0	0	2	8	1999	3661	1932	1536	14	0	5	0	10	9128	19	9157
1873	0	122	0	0	44	803	2898	3761	908	12	0	0	122	44	8369	12	8548
1874	0	0	0	0	33	1673	3830	2654	899	0	0	0	0	33	9056	0	9089
1875	0	245	1	51	107	1155	4345	1059	3605	32	0	3	245	159	10164	35	10603
1876	0	0	3	13	10	461	3200	2906	1537	0	0	0	0	26	8104	0	8130
1877	26	163	2	19	122	810	928	268	1083	1015	33	95	189	143	3089	1143	4564
1878	0	0	0	15	138	1198	6441	5302	2832	217	0	0	0	153	15773	217	16142
1879	0	56	0	0	70	2423	1599	3581	1542	233	0	0	56	70	9145	233	9504
1880	0	0	0	0	7	1029	4118	1747	3039	468	5	7	0	7	9933	480	10420
1881	0	0	8	7	76	639	6518	2713	1431	101	2	54	0	91	11301	157	11548
1882	11	2	0	0	0	1824	5890	902	1754	0	5	0	13	0	10370	5	10388
1883	87	0	30	0	264	1694	4486	639	2369	385	0	0	87	294	9188	385	9954
1884	8	0	0	0	0	785	5675	1743	4770	117	0	38	8	0	12973	155	13136
1885	12	0	0	1	86	503	2831	3398	270	378	15	0	12	87	7001	393	7493
1886	0	0	2	0	111	1956	4927	2209	449	622	0	3	0	113	9541	625	10279
1887	4	0	0	0	28	2271	4589	1742	448	2	217	39	4	28	9050	258	9340
1888	84	80	0	0	0	929	1842	2838	54	10	284	0	164	0	5663	294	6121
1889	6	14	0	0	439	1400	3758	2717	458	225	0	0	20	439	8333	225	9017
1890	0	0	0	18	0	2223	2721	2194	968	40	5	9	0	18	8106	54	8178
1891	40	0	24	0	5	169	5369	1713	1375	52	0	0	40	29	8626	52	8747
1892	25	5	0	0	3	989	3672	3433	4522	164	11	2	30	3	12616	177	12826
1893	0	90	15	5	83	4491	3019	1715	2316	13	377	2	90	103	11541	392	12126
1894	36	0	9	4	21	2410	6968	925	2061	1258	0	19	36	34	12364	1277	13711
1895	0	0	23	6	0	1310	2940	2178	626	308	0	0	0	29	7053	308	7391
1896	0	0	0	0	0	1829	4948	3226	255	0	216	31	0	0	10257	247	10504
1897	3	0	0	2	0	492	2934	3130	1810	190	0	0	3	2	8366	190	8561
1898	0	219	0	0	46	1511	4204	1162	1566	0	6	67	219	46	8443	73	8781
1899	0	0	0	0	91	1707	126	102	174	12	0	8	0	91	2109	20	2220
1900	0	0	0	68	25	47	1843	4589	1293	0	0	2	0	93	7772	2	7867
1901	18	0	5	43	71	463	2403	1627	82	89	0	4	18	119	4575	92	4805
1902	27	0	0	0	20	223	2348	2912	2910	17	8	81	27	20	8393	106	8546
1903	2	0	1	0	93	220	4747	1790	1721	20	0	0	2	94	8478	20	8594
1904	12	115	141	1	27	454	1746	520	851	45	0	7	127	169	3571	52	3919
1905	0	7	16	2	0	201	6163	241	728	12	2	1	7	18	7332	15	7372
1906	1	137	0	0	0	1928	3267	2522	1477	33	0	8	138	0	9194	41	9373
1907	3	201	2	16	0	598	3402	6386	150	0	0	0	204	18	10536	0	10758
1908	44	1	0	0	0	579	5861	3627	220	1	0	0	45	0	10287	1	10332
1909	1	4	0	45	4	1613	3620	2329	1373	9	0	50	5	49	8934	59	9048
1910	8	0	0	1	2	2743	2614	3379	247	204	107	0	8	3	8983	311	9305
1911	35	0	187	0	0	1469	657	667	573	0	34	0	35	187	3365	34	3621
1912	6	0	0	10	13	1003	6144	2855	396	215	356	0	6	23	10398	571	10998
1913	0	0	2	0	107	3830	4042	2059	1476	4	2	0	0	109	11407	6	11522
1914	0	36	0	0	61	2334	4357	1282	2263	80	74	0	36	61	10236	154	10487
1915	45	13	78	7	23	1262	1251	767	412	969	5	0	58	108	3692	974	4832
1916	0	0	1	0	57	1051	1800	4400	2056	339	27	0	0	57	9307	366	9731
1917	10	102	0	59	1241	1548	2980	3569	3524	2440	0	0	112	1300	11621	2440	15473
1918	0	0	1	0	150	418	1118	2024	209	0	0	0	0	151	3769	0	3920
1919	50	0	0	10	37	893	3459	5012	699	303	114	1	50	47	10063	417	10578
1920	383	19	0	1	696	1926	2557	971	287	0	0	0	402	697	5741	0	6840
1921	3	0	0	0	0	335	5529	2004	3888	7	0	0	3	0	11756	7	11765
1922	3	0	0	0	0	1195	3108	1235	2937	35	26	3	3	0	8475	64	8542
1923	0	65	6	24	65	8	2311	1367	753	11	0	0	65	95	4439	11	4610
1924	15	1	0	0	73	904	2993	2046	2011	177	0	7	16	73	7954	184	8227
1925	0	0	0	0	130	2865	1963	697	109	1	48	0	0	130	5634	49	5813
1926	62	0	0	26	100	179	4258	4480	3855	1	0	0	62	126	12772	1	12961
1927	0	45	0	6	3	1757	8625	1752	934	157	210	137	45	9	13067	504	13625

1928	0	1	0	0	0	639	3531	1939	1585	220	200	7	1	0	7694	427	8122
1929	18	0	0	68	5	1595	4099	1567	164	79	0	105	18	73	7425	184	7700
1930	30	0	0	0	6	1783	4029	1400	1014	515	0	7	30	6	8226	522	8784
1931	0	2	0	1	13	220	3171	5114	795	943	31	20	2	14	9300	994	10310
1932	0	0	1	4	1	543	5793	1221	1126	195	2	0	0	6	8682	197	8886
1933	0	53	2	38	411	1047	2531	5570	2098	114	9	75	53	451	11246	198	11948
1934	0	0	13	0	0	2312	2765	3996	760	9	168	0	0	13	9833	176	10023
1935	89	1	0	22	0	866	3610	1011	1862	119	0	0	90	22	7349	119	7580
1936	0	14	11	0	7	2137	1325	501	1727	17	461	0	14	18	5690	478	6200
1937	0	59	1	0	0	2460	6050	268	3099	27	0	35	59	1	11877	62	11998
1938	0	2	0	0	127	2876	3134	1273	225	232	0	0	2	127	7508	232	7869
1939	0	13	29	0	0	247	1890	2866	1003	7	39	0	13	29	6006	46	6094
1940	112	29	36	18	2	1542	1736	2188	1086	1005	267	0	141	55	6551	1272	8021
1941	9	89	3	6	3	431	7277	2046	334	39	0	10	97	12	10088	49	10247
1942	25	152	0	0	86	1247	4358	3603	1499	0	0	2	177	86	10707	2	10972
1943	0	0	0	3	287	1287	4688	749	1415	469	10	0	0	290	8139	479	8908
1944	23	0	65	15	9	1197	6327	5001	537	198	0	0	23	89	13062	198	13372
1945	76	0	0	5	18	1655	5024	2337	3633	6	0	0	76	23	12649	6	12754
1946	0	30	0	4	21	2475	2721	4341	1252	12	427	55	30	25	10788	494	11337
1947	12	0	0	612	0	46	2783	2647	2727	83	60	0	12	612	8203	143	8970
1948	155	0	0	0	1	619	1753	953	548	140	349	0	155	1	3873	489	4518
1949	0	5	0	0	8	277	3036	2210	2283	168	4	0	5	8	7806	171	7991
1950	0	0	0	0	0	90	7174	677	3141	11	0	0	0	0	11082	11	11093
1951	0	0	9	0	1	528	2426	1731	55	85	56	0	0	10	4740	141	4891
1952	0	0	0	0	0	1611	5144	1443	93	8	0	0	0	0	8291	8	8299
1953	151	0	0	1	0	1317	2204	5458	1116	3	0	0	151	1	10094	3	10250
1954	0	27	50	0	0	1498	4092	2233	5801	265	9	26	27	50	13623	300	14001
1955	0	0	3	8	1	1005	756	3968	3051	479	0	0	0	12	8780	479	9271
1956	0	4	0	2	362	1116	6467	3395	1464	1181	8	3	4	364	12442	1192	14002
1957	28	0	5	1	27	1636	2597	1849	89	37	78	3	28	33	6171	118	6350
1958	10	0	7	17	0	1171	3267	2813	3767	614	36	0	10	24	11018	650	11702
1959	0	0	0	39	4	1080	6187	2522	3833	1279	39	0	0	43	13622	1318	14983
1960	12	0	0	0	50	1855	2036	1861	822	82	0	7	12	50	6574	89	6725
1961	0	25	0	0	9	1133	3357	1878	3339	134	0	0	25	9	9707	134	9875
1962	0	0	25	16	30	459	2480	1398	2057	0	49	29	0	71	6394	78	6543
1963	17	0	10	19	14	652	3099	4225	2370	188	329	8	17	43	10346	525	10931
1964	0	0	0	0	20	1077	4354	3354	1300	0	4	0	0	20	10085	4	10109
1965	96	0	2	2	5	51	4306	1699	226	0	20	0	96	9	6281	20	6406
1966	14	0	0	1	13	1156	3242	691	1777	2	2	0	14	14	6866	4	6898
1967	0	0	549	1	0	1667	4125	2013	1121	33	0	211	0	550	8926	244	9719
1968	0	9	9	0	0	325	2301	2478	407	105	3	0	9	9	5511	108	5637
1969	0	6	0	0	0	863	2661	1291	1443	0	51	36	6	0	6258	87	6351
1970	1	9	1	4	51	2418	2180	4037	3112	161	37	0	10	56	11747	198	12011
1971	0	0	0	2	74	1674	2593	1999	1337	60	0	0	0	76	7603	60	7738
1972	0	33	0	0	10	773	1645	1773	150	3	0	0	33	10	4341	3	4387
1973	28	9	0	0	21	1188	2710	3504	3474	73	0	5	37	21	10876	78	11012
1974	0	0	0	0	521	255	1323	832	567	204	0	232	0	521	2977	436	3934
1975	0	1	1	0	0	2218	1914	4006	3074	797	0	0	1	1	11212	797	12011
1976	33	0	0	0	0	2539	4045	3980	1156	0	704	0	33	0	11720	704	12457
1977	88	3	0	20	225	2326	5322	1707	1303	0	52	0	91	245	10658	52	11046
1978	0	13	0	26	0	2075	2166	3159	414	134	377	111	13	26	7814	622	8475
1979	0	97	0	0	19	1107	1403	3887	507	118	1185	0	97	19	6904	1303	8323
1980	0	5	0	0	0	2713	2204	2638	217	0	40	186	5	0	7772	226	8003
1981	11	0	9	1	26	934	3784	3559	1257	383	277	0	11	36	9534	660	10241
1982	12	0	0	30	723	323	3064	2195	222	36	932	114	12	753	5803	1082	7651
1983	7	0	0	128	14	1396	4363	3644	1699	716	0	0	7	142	11102	716	11967
1984	0	0	0	0	0	845	4175	4303	995	47	0	0	0	0	10318	47	10365
1985	0	0	0	28	6	72	2677	1768	158	1253	0	6	0	34	4675	1259	5968
1986	0	0	11	0	31	1918	1309	1370	25	3	21	0	0	42	4622	23	4688
1987	0	14	0	0	5	733	1217	1706	62	21	154	131	14	5	3718	306	4043
1988	0	0	0	48	0	644	6094	2118	2106	51	0	0	0	48	10962	51	11061
1989	18	0	0	0	0	1054	3332	2990	515	5	0	0	18	0	7891	5	7914
1990	0	49	0	0	251	835	1914	5083	1794	174	68	33	49	251	9626	275	10201
1991	0	0	0	0	0	550	4126	1292	293	0	14	0	0	0	6261	14	6275

1992	12	0	0	0	3	1319	2540	2170	2023	129	9	0	12	3	8052	138	8205
1993	0	13	0	0	0	1406	5183	511	1263	307	35	0	13	0	8363	342	8718
1994	128	0	0	1	0	3131	4344	3151	2840	3	0	0	128	1	13466	3	13598
1995	48	0	14	3	0	145	4283	1216	790	183	3	12	48	17	6433	198	6696
1996	41	0	0	0	0	1228	3411	2007	1175	306	1	0	41	0	7821	307	8168
1997	46	0	0	55	120	4497	1894	3510	1092	118	61	5	46	175	10992	184	11398
1998	0	1	0	0	0	1040	2983	1866	3289	1058	30	0	1	0	9178	1088	10267
1999	0	20	0	0	166	1564	2569	576	652	841	0	0	20	166	5361	841	6388
2000	0	0	0	0	374	667	3663	1156	102	2	0	41	0	374	5588	42	6005
2001	0	0	0	1	98	1967	3425	2599	136	317	0	0	0	99	8126	317	8543
2002	0	0	14	0	3	2819	361	2421	1014	55	12	6	0	17	6615	73	6705
2003	2	231	0	0	0	1998	5158	2886	1090	9	0	0	233	0	11132	9	11374
2004	0	0	0	0	142	1501	2566	4920	334	187	0	0	0	142	9321	187	9650
2005	0	0	0	0	5	2958	2583	1735	2921	35	0	0	0	5	10197	35	10237
2006	0	0	11	0	0	1126	5287	4955	1011	52	10	0	0	11	12379	62	12452
2007	3	19	2	0	5	881	5322	3835	1929	0	54	0	22	7	11967	54	12050
2008	0	3	0	38	0	688	2824	3933	1934	53	5	26	3	38	9379	84	9504
2009	0	0	3	0	0	166	4099	1303	425	244	75	4	0	3	5993	323	6319
2010	13	0	0	0	0	651	4032	4600	2504	249	414	8	13	0	11787	671	12471
2011	0	2	0	0	0	214	2558	4947	1923	4	0	0	2	0	9642	4	9648
2012	0	0	0	6	0	541	1482	2032	3459	62	0	0	0	6	7514	62	7582
2013	0	25	0	136	0	2498	5196	2395	3535	518	0	0	25	136	13623	518	14303
2014	114	5	0	19	35	165	4377	1679	2764	9	25	0	119	54	8985	34	9192
2015	19	0	80	59	13	1308	3952	357	939	18	3	0	19	152	6556	21	6748
2016	0	0	6	0	5	303	2616	2619	958	580	0	0	0	11	6496	580	7087

 Values are up to 1 decimal

MEAN	17	19	10	13	64	1266	3489	2445	1474	203	67	15	36	88	8676	286	9088	
P-Ann	1	2	1	1	7	139	383	269	162	22	7	1	4	9	954	31	1000	
SD	42	46	50	53	153	874	1582	1345	1178	345	164	38	61	167	2657	372	2707	
CV	242	624	402	4750	3979	2375	690	453	550	799	1699	2449	2475	1655	1889	306	1300	297

Table 23: SAURASHTRA , KUTCH & DIU SUBDIVISION, AREA 109950 SQ.KM 3.82 PER, 7 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	0	0	2	401	403	511	1888	165	65	279	56	0	403	2967	400	3770
1872	0	0	0	0	2	1330	2039	716	582	4	0	1	0	2	4667	5	4674
1873	1	195	0	0	29	238	1317	1334	300	3	0	15	196	29	3189	18	3431
1874	35	0	0	0	14	1260	1773	771	256	0	0	0	35	14	4060	0	4109
1875	0	110	70	42	5	404	984	471	570	0	0	47	110	117	2429	47	2703
1876	0	0	0	0	10	391	1621	876	336	0	10	0	0	10	3224	10	3244
1877	50	92	0	5	35	387	177	55	1803	670	29	34	142	40	2422	733	3337
1878	7	0	0	1	6	2198	4337	2258	1998	75	0	0	7	7	10791	75	10880
1879	0	22	0	0	163	1138	355	1424	555	24	0	0	22	163	3472	24	3681
1880	0	2	0	0	9	331	1278	390	1634	492	0	0	2	9	3633	492	4136
1881	0	2	0	299	3	116	4024	969	628	0	0	1	2	302	5737	1	6041
1882	12	1	0	0	0	733	3040	420	459	3	16	0	13	0	4652	19	4684
1883	62	0	146	2	46	791	2936	144	908	206	0	0	62	194	4779	206	5241
1884	0	2	2	0	0	1584	3604	995	1787	31	0	29	2	2	7970	60	8033
1885	17	0	0	0	113	314	1862	3035	116	241	11	4	17	113	5326	256	5712
1886	11	0	0	0	69	975	4275	530	134	297	6	0	11	69	5914	303	6297
1887	0	0	0	0	0	764	2955	462	100	4	71	15	0	0	4281	90	4371
1888	99	242	0	0	0	316	1299	1360	8	2	509	0	341	0	2983	511	3834
1889	5	0	0	0	143	382	3288	800	317	262	0	0	5	143	4787	262	5197
1890	0	0	0	3	10	1108	1054	780	243	58	9	134	0	13	3185	201	3398
1891	64	6	11	1	1	121	2586	278	601	22	0	0	70	13	3586	22	3691
1892	0	0	0	0	128	323	2099	917	1112	332	0	2	0	128	4451	334	4913
1893	10	112	0	0	9	2140	1108	284	289	2	375	18	122	9	3820	395	4347
1894	9	0	18	0	23	1959	6029	174	685	419	0	14	9	41	8847	433	9330
1895	0	18	12	0	0	593	2107	997	107	193	0	0	18	12	3804	193	4027
1896	0	16	0	0	12	1946	2081	1411	105	0	611	1	16	12	5543	612	6182
1897	16	0	0	0	3	71	1648	1827	1278	304	0	0	16	3	4824	304	5147
1898	0	56	0	0	58	716	2082	227	1106	0	32	54	56	58	4131	86	4331
1899	0	0	0	0	19	598	26	62	134	0	0	0	0	19	820	0	839
1900	6	0	0	14	71	13	1340	4723	643	0	0	0	6	85	6718	0	6809
1901	0	0	1	1	36	57	723	666	198	29	0	0	0	38	1644	29	1710
1902	0	0	0	5	12	117	1099	1482	1356	17	0	21	0	17	4054	38	4109
1903	2	0	27	0	42	97	3369	1302	752	62	0	0	2	69	5520	62	5653
1904	20	52	159	0	0	47	954	71	555	1	51	0	72	159	1627	52	1910
1905	17	17	4	29	0	37	2087	197	185	0	0	0	34	33	2506	0	2573
1906	5	316	0	0	0	1146	1551	1456	494	185	0	5	321	0	4647	190	5158
1907	0	276	0	17	0	589	1520	1900	25	0	0	0	276	17	4034	0	4327
1908	47	0	0	0	0	256	2432	1445	119	3	0	0	47	0	4252	3	4302
1909	0	65	0	24	3	1256	2058	511	1899	14	0	131	65	27	5724	145	5961
1910	4	0	0	10	0	1845	2118	2298	208	26	0	0	4	10	6468	26	6508
1911	22	0	357	0	6	339	62	274	195	4	1	7	22	363	870	12	1267
1912	0	0	2	6	0	758	4295	1161	172	32	18	0	0	8	6386	50	6444
1913	0	0	0	0	0	1651	3111	1284	1033	1	0	0	0	0	7078	1	7079
1914	0	94	0	0	33	1650	1127	459	2213	26	19	0	94	33	5449	45	5621
1915	25	12	151	42	7	428	1117	78	212	476	0	6	37	200	1835	481	2554
1916	0	0	0	2	1	354	1129	1982	842	335	0	0	0	3	4307	335	4645
1917	42	11	0	13	653	766	1532	2464	1105	2095	0	0	52	666	5866	2095	8681
1918	0	0	15	0	56	23	321	417	104	0	0	0	0	71	865	0	936
1919	97	0	0	15	13	257	1415	1557	681	91	157	0	97	28	3910	248	4283
1920	80	36	7	0	206	1846	1521	526	138	0	0	0	116	213	4031	0	4360
1921	0	0	0	0	0	186	2980	667	1570	8	0	0	0	0	5403	8	5411
1922	0	0	0	0	0	276	1171	321	1253	88	1	37	0	0	3020	126	3146
1923	0	230	0	20	1	1	706	946	162	14	0	0	230	21	1814	14	2079
1924	0	1	0	0	16	459	954	677	732	1	0	2	1	16	2822	3	2842
1925	0	0	0	0	152	1726	616	155	98	6	86	0	0	152	2595	92	2839
1926	36	0	0	26	483	169	2252	2589	3618	21	0	0	36	508	8628	21	9194
1927	0	56	0	0	40	692	3969	385	647	291	13	52	56	40	5693	356	6144

1928	23	0	0	4	0	78	2531	982	874	189	113	0	23	4	4464	302	4793
1929	33	0	0	40	0	377	2821	554	76	155	1	226	33	40	3828	382	4283
1930	30	12	0	2	13	918	2074	411	322	159	0	0	42	15	3725	159	3941
1931	7	4	0	1	25	68	1117	1111	161	507	51	0	11	26	2457	558	3052
1932	0	0	0	0	5	179	3080	364	122	209	0	0	0	5	3745	209	3959
1933	0	69	28	62	1363	534	2253	2366	1072	22	0	3	69	1453	6225	25	7772
1934	0	0	14	6	0	1253	1178	1123	168	9	6	0	0	20	3722	15	3757
1935	132	0	0	14	0	587	3297	527	290	23	0	0	132	14	4701	23	4870
1936	0	22	0	0	0	1072	855	147	1071	0	381	15	22	0	3145	396	3563
1937	0	36	0	0	0	892	2428	51	880	41	0	226	36	0	4251	267	4554
1938	0	0	0	0	163	1358	1077	486	33	96	0	2	0	163	2954	98	3215
1939	0	201	34	0	0	134	502	795	48	26	4	0	201	34	1479	30	1744
1940	92	68	162	0	0	971	793	1091	261	28	146	0	160	162	3116	174	3612
1941	0	13	0	0	15	100	3745	118	87	31	0	14	13	15	4050	45	4123
1942	16	285	0	0	21	120	929	1421	292	0	0	0	301	21	2762	0	3084
1943	1	0	0	5	53	665	3157	104	603	119	3	0	1	58	4529	122	4709
1944	5	0	13	0	96	634	3616	1909	178	4	0	0	5	109	6337	4	6455
1945	109	0	0	9	0	1174	3098	1081	969	17	0	0	109	9	6322	17	6457
1946	0	10	0	0	45	1086	1559	1542	238	0	52	4	10	45	4425	56	4536
1947	0	0	0	605	0	28	698	1949	1618	9	7	0	0	605	4293	15	4914
1948	140	0	0	0	14	118	124	607	594	340	57	6	140	14	1443	403	2000
1949	0	3	0	0	0	210	2220	2364	530	30	0	0	3	0	5324	30	5357
1950	4	0	0	0	0	30	4888	216	396	0	0	0	4	0	5529	0	5533
1951	0	0	41	47	6	394	1304	647	27	0	559	0	0	94	2371	559	3025
1952	0	2	0	4	1	516	2830	413	96	10	36	0	2	5	3855	46	3908
1953	110	0	0	0	3	527	954	4335	658	0	0	0	110	3	6473	0	6587
1954	16	32	14	0	0	348	1486	2062	1287	6	4	5	48	14	5183	15	5260
1955	0	0	9	0	22	173	260	1146	1683	119	0	8	0	31	3262	127	3419
1956	7	1	0	5	11	589	3128	1678	869	794	2	14	8	16	6264	810	7098
1957	13	0	850	3	63	705	1918	893	157	21	225	3	13	916	3673	249	4851
1958	22	0	0	14	0	299	1991	810	1762	345	134	34	22	14	4862	513	5411
1959	13	0	0	18	35	668	6717	1164	2169	1557	66	0	13	53	10718	1623	12407
1960	0	0	27	0	92	852	1421	203	301	0	0	0	0	119	2777	0	2896
1961	9	155	0	1	10	1328	3133	1514	1549	153	0	0	164	11	7524	153	7852
1962	0	0	19	0	10	147	1574	1149	777	0	123	18	0	29	3647	141	3816
1963	7	0	10	0	7	202	698	1250	672	338	318	0	7	17	2822	656	3501
1964	8	0	0	0	44	1038	1756	1555	505	0	0	0	8	44	4854	0	4906
1965	52	0	0	26	10	0	2478	1246	292	1	40	0	52	36	4016	41	4145
1966	0	0	0	0	0	674	1624	48	658	29	0	0	0	0	3004	29	3033
1967	0	0	460	6	0	611	5134	780	149	2	0	225	0	466	6674	227	7367
1968	27	3	4	0	0	102	774	2024	222	32	0	0	30	4	3122	32	3188
1969	0	0	0	0	0	369	1682	227	195	0	191	16	0	0	2473	207	2680
1970	4	8	0	9	68	875	1809	2951	2117	284	0	0	12	77	7752	284	8125
1971	0	0	0	0	18	930	1647	1101	482	3	0	0	0	18	4160	3	4181
1972	0	47	0	0	4	678	1002	355	27	0	0	0	47	4	2062	0	2113
1973	32	0	0	0	28	476	1897	703	609	24	0	0	32	28	3684	24	3768
1974	0	0	0	0	73	73	309	283	310	337	0	10	0	73	975	347	1395
1975	16	0	0	0	1	636	530	1557	1482	1467	0	0	16	1	4205	1467	5689
1976	85	2	68	0	0	1033	1345	1510	818	32	308	0	87	68	4706	340	5201
1977	44	0	0	0	152	879	1629	975	1531	5	75	0	44	152	5014	80	5290
1978	0	13	0	13	0	2087	843	1387	80	61	233	12	13	13	4397	306	4729
1979	0	40	0	1	4	1699	361	6127	350	93	1066	0	40	5	8537	1159	9741
1980	32	4	0	0	4	2337	2816	788	180	10	26	91	36	4	6121	127	6287
1981	44	0	1	4	38	373	1951	1736	841	217	1106	0	44	43	4901	1323	6311
1982	12	0	1	30	295	33	1370	765	155	23	964	0	12	326	2323	987	3648
1983	19	3	0	65	0	1888	1725	2159	296	107	0	0	22	65	6067	107	6262
1984	0	0	0	0	0	330	812	1174	1564	0	0	0	0	0	3880	0	3880
1985	0	0	0	0	53	166	633	950	234	644	0	0	0	53	1982	644	2680
1986	0	0	0	0	47	1320	210	587	15	0	0	10	0	47	2132	10	2189
1987	0	0	17	0	0	253	178	188	5	2	40	30	0	17	624	72	712
1988	0	0	0	77	0	166	4104	1185	1625	23	0	0	0	77	7080	23	7179
1989	28	0	12	0	0	1524	1879	1352	437	58	0	0	28	12	5192	58	5290
1990	0	128	0	0	102	259	304	2685	701	162	4	4	128	102	3949	170	4349
1991	0	1	0	0	0	138	1328	322	98	0	0	9	1	0	1886	9	1895

1992	37	0	0	0	13	415	3459	853	531	70	0	0	37	13	5258	70	5378
1993	2	3	0	12	0	244	1019	48	487	185	187	0	5	12	1798	372	2187
1994	60	0	0	0	3	614	3792	790	1956	0	0	0	60	3	7151	0	7215
1995	2	0	25	1	1	63	1701	291	378	111	0	0	2	26	2433	111	2573
1996	23	0	0	39	10	1270	1382	284	95	152	0	0	23	49	3031	152	3255
1997	48	0	27	26	44	1667	1073	727	1978	33	5	1	48	97	5445	39	5628
1998	0	2	0	0	0	1242	2023	1078	553	1729	12	0	2	0	4896	1740	6638
1999	15	28	0	0	1036	678	364	122	254	1106	0	0	43	1036	1418	1106	3603
2000	0	0	0	0	21	83	2376	1107	27	18	0	1	0	21	3593	19	3633
2001	0	0	0	0	16	1580	1695	839	97	12	0	0	0	16	4211	12	4239
2002	0	0	0	0	0	1923	68	895	177	0	11	6	0	0	3063	17	3080
2003	0	25	0	5	1	596	4185	1865	202	34	0	0	25	6	6848	34	6913
2004	3	0	0	0	301	763	766	1494	250	200	0	0	3	301	3273	200	3777
2005	0	0	0	14	7	1339	943	658	1977	19	0	0	0	21	4917	19	4957
2006	0	0	69	0	0	731	3375	2543	733	5	1	0	0	69	7382	6	7456
2007	0	43	0	0	1	1459	2095	4224	1739	4	44	0	43	1	9517	48	9609
2008	1	9	37	20	0	667	1328	1214	1682	59	12	92	10	57	4891	163	5121
2009	0	0	0	0	2	839	3704	1376	103	67	13	0	0	2	6022	80	6103
2010	3	0	0	0	1	687	3820	3829	1899	36	1056	0	3	1	10235	1092	11331
2011	0	3	0	0	0	358	1725	2925	2815	57	8	0	3	0	7823	65	7891
2012	66	8	1	68	48	259	251	522	2426	49	88	28	74	117	3458	165	3814
2013	61	10	0	304	1	1294	1442	999	3152	231	0	0	71	305	6886	231	7494
2014	9	1	0	10	24	143	1690	1744	1109	43	15	0	10	34	4686	58	4787
2015	12	0	49	24	18	1067	2545	120	859	33	2	0	12	91	4591	35	4729
2016	0	0	3	0	21	242	1100	1896	512	493	0	0	0	23	3750	493	4267

 Values are up to 1 decimal

MEAN	15	22	20	14	52	692	1887	1134	714	145	69	12	38	88	4429	227	4783
P-Ann	3	4	4	3	11	144	394	237	149	30	14	2	8	18	925	47	1000
SD	28	57	87	61	161	576	1253	974	707	315	194	37	64	191	1995	358	2075
CV	17642534	4301	4129	3052	831	664	858	990	2166	281330261654	2174	450	1577	433			

Table 24: KONKAN AND GOA SUBDIVISION, AREA 34095 SQ.KM 1.18 PER, 5 STN
 Monthly, seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	1834	0	0	4	331	4717	5321	2726	1803	251	157	201834	335	14567	428	17164	
1872	0	0	0	20	185	7522	6553	3116	2831	103	29	45	0	205	20022	177	20404
1873	0	14	0	0	179	6759	7389	4153	2915	313	35	0	14	179	21216	348	21757
1874	0	12	0	0	313	7086	15424	4189	3385	289	87	14	12	313	30084	390	30798
1875	19	0	1	2	27	9124	9083	4016	4769	19	27	38	19	30	26992	84	27125
1876	0	0	0	2	1	4765	7701	2633	1794	0	0	0	0	3	16893	0	16896
1877	3	142	8	0	34	7234	3106	3609	2542	1694	69	31	145	42	16491	1794	18472
1878	1	0	0	4	4	7882	12347	10315	7000	1832	361	0	1	8	37544	2193	39746
1879	0	5	0	0	2191	6213	3910	9456	1414	418	30	0	5	2191	20992	448	23637
1880	0	0	0	0	6	6594	8599	2241	4744	583	97	0	0	6	22178	680	22864
1881	0	0	0	0	62	4675	8175	5098	1937	765	233	0	0	62	19885	998	20945
1882	14	0	2	0	81	9249	9420	1990	3984	874	20	0	14	83	24642	894	25634
1883	114	0	0	0	107	7014	10015	3730	3954	2015	89	0	114	107	24712	2104	27037
1884	73	0	0	2	4	3820	8053	6284	5424	1309	17	259	73	6	23581	1584	25244
1885	0	0	0	21	50	3657	7855	6070	3058	1418	37	10	0	71	20640	1465	22176
1886	0	0	0	4	587	9713	12026	4310	1263	1685	123	4	0	591	27312	1812	29715
1887	0	0	1	14	194	9736	7913	5371	4131	660	390	24	0	209	27151	1074	28434
1888	672	0	0	41	115	7253	7852	5043	1224	155	441	0	672	156	21372	596	22796
1889	0	0	0	0	48	8538	10775	3839	1289	1500	4	0	0	48	24440	1504	25992
1890	0	0	0	2	204	9617	9227	6095	1920	160	293	7	0	206	26859	460	27525
1891	0	0	22	4	0	2267	12427	2678	5556	407	0	0	0	26	22927	407	23360
1892	0	0	0	135	422	6769	8909	11889	5083	1578	231	2	0	557	32650	1811	35018
1893	0	3	0	50	1318	8599	5305	4685	2351	622	188	0	3	1368	20940	810	23121
1894	90	0	132	1	6	6485	9499	3325	3727	1532	2	0	90	139	23036	1534	24799
1895	0	14	0	6	15	4945	8270	4301	2611	1279	268	0	14	21	20127	1547	21709
1896	0	0	0	5	204	6480	10303	7047	662	70	86	8	0	209	24492	164	24865
1897	0	0	0	1	73	4417	14679	5479	4335	1878	0	0	0	74	28910	1878	30862
1898	0	93	0	52	66	8921	10797	3190	4586	408	239	0	93	117	27494	647	28352
1899	0	0	0	395	211	6331	1947	2321	1602	221	0	0	0	606	12201	221	13027
1900	29	0	121	0	0	5725	6763	6604	3750	13	2	0	29	121	22842	15	23007
1901	77	1	4	252	233	7778	7835	5305	784	210	117	0	78	489	21702	327	22595
1902	0	0	0	0	9	4285	7354	3553	6704	764	330	349	0	9	21896	1443	23347
1903	0	0	4	0	2138	4947	10857	5710	2517	1607	51	3	0	2142	24030	1661	27834
1904	0	1	164	23	30	10696	6704	2359	1598	691	0	0	1	216	21357	691	22266
1905	0	0	0	2	37	2637	5957	2084	2151	846	198	0	0	39	12829	1044	13912
1906	46	10	0	0	42	5309	9313	4360	1866	200	50	9	56	42	20848	259	21205
1907	22	8	0	117	0	6152	10428	5518	1203	25	3	1	30	117	23301	28	23477
1908	9	9	0	0	8	4512	9756	4723	2494	110	19	0	18	8	21485	129	21639
1909	0	0	0	2	5	7328	10023	3261	4051	25	0	0	0	7	24663	25	24695
1910	0	0	2	0	28	7379	3514	6157	4022	570	251	0	0	30	21072	821	21923
1911	2	0	1	0	179	4684	5241	5809	1396	143	143	0	2	180	17130	286	17598
1912	0	0	0	53	334	6485	9175	3981	930	277	1577	0	0	387	20571	1854	22811
1913	0	0	0	8	139	7795	9158	2228	1663	1064	0	0	0	147	20844	1064	22055
1914	0	0	0	6	7	7712	10901	6447	5345	81	56	44	0	13	30405	181	30599
1915	0	17	35	37	98	8271	6619	3198	4645	1257	86	0	17	170	22733	1343	24263
1916	0	0	0	8	508	8025	7838	6498	6410	1799	861	0	0	516	28771	2660	31947
1917	0	247	0	0	155	7026	5086	8986	4867	3987	184	0	247	155	25964	4171	30537
1918	0	0	20	1	3325	3445	2558	3630	884	30	424	0	0	3346	10517	454	14317
1919	73	0	1	0	20	6300	8923	3993	2530	1035	114	54	73	21	21746	1203	23042
1920	172	29	0	36	20	3647	6216	2890	1825	250	1	0	201	56	14578	251	15086
1921	0	0	0	21	0	8190	9019	4464	2966	523	98	0	0	21	24639	621	25281
1922	0	0	0	62	145	8163	10333	2488	2086	156	494	4	0	207	23070	654	23931
1923	0	11	0	0	20	3053	14057	3241	3577	21	1	0	11	20	23928	21	23981
1924	0	0	3	0	0	5530	8738	4641	2811	257	4	0	0	3	21720	261	21984
1925	2	0	14	65	1165	7348	4187	4402	984	294	241	0	2	1244	16921	535	18702
1926	281	0	0	0	3	3325	8800	9933	4240	369	0	0	281	3	26298	369	26950
1927	0	0	0	0	36	7809	7350	2809	2452	2536	829	12	0	36	20420	3377	23832

1928	0	22	0	17	4	6609	8764	7457	2417	993	31	0	22	21	25247	1024	26314
1929	3	0	2	123	42	8126	5689	3965	1870	1572	134	200	3	167	19650	1905	21725
1930	0	7	0	0	151	9942	4061	3577	5294	1486	6	0	7	151	22874	1492	24524
1931	0	0	0	15	15	3752	16009	6806	2097	4277	549	362	0	30	28664	5188	33882
1932	0	0	0	4	419	5327	10785	2522	3934	2072	47	74	0	423	22567	2193	25183
1933	0	0	0	124	1465	7512	7385	6043	3903	1472	103	253	0	1589	24843	1828	28260
1934	1	0	5	0	1	10863	6826	7505	3355	203	678	0	1	6	28549	881	29437
1935	2	0	0	1	0	8258	7188	4256	3884	265	16	2	2	1	23585	283	23872
1936	0	0	0	0	291	11207	5406	4779	3901	306	1001	0	0	291	25293	1307	26891
1937	0	55	0	276	6	9225	12836	1982	3468	1381	0	14	55	282	27511	1395	29243
1938	0	7	0	15	798	10452	6168	5667	3184	4279	462	0	7	813	25470	4741	31031
1939	0	0	28	11	0	4692	10626	5366	2096	383	230	0	0	39	22780	613	23432
1940	45	47	57	0	29	7411	7766	7118	2542	2094	293	3	92	86	24837	2390	27405
1941	172	0	10	6	23	4639	4587	1894	1363	432	0	17	172	39	12483	449	13142
1942	0	0	0	40	0	11436	9147	3588	2471	213	11	39	0	40	26642	263	26945
1943	41	0	1	1	1729	7281	9385	1813	4154	1034	148	0	41	1730	22633	1182	25587
1944	0	0	1	0	176	5273	12312	4403	470	1224	5	0	0	177	22458	1229	23864
1945	62	0	0	3	0	6806	9892	5497	2796	283	50	0	62	3	24991	333	25389
1946	0	0	0	24	305	7360	6927	5947	3871	285	2001	106	0	329	24105	2392	26826
1947	25	0	0	690	91	3506	8986	7671	4190	741	0	13	25	781	24352	754	25913
1948	91	0	0	5	17	5408	10075	7504	4399	629	1768	0	91	22	27386	2397	29895
1949	0	0	0	0	886	4530	9525	5369	9534	533	33	0	0	886	28958	566	30410
1950	0	0	0	4	139	3899	9753	2123	6556	818	61	0	0	143	22331	879	23353
1951	0	0	3	101	109	8827	12237	3233	895	3108	419	0	0	213	25192	3526	28932
1952	0	0	0	8	95	6536	7606	3054	1080	1423	0	6	0	103	18276	1429	19808
1953	0	0	0	56	2	8824	12704	5659	1657	1475	0	0	0	57	28844	1475	30377
1954	0	52	19	52	21	5590	13727	8727	5936	136	0	61	52	92	33980	197	34321
1955	7	0	0	33	128	8514	9032	11485	3549	2429	76	0	7	161	32580	2505	35253
1956	0	3	0	35	1237	8479	10357	5405	3994	1613	436	0	3	1272	28235	2049	31559
1957	0	0	0	40	192	5476	9132	8710	878	956	865	0	0	232	24196	1821	26249
1958	10	0	0	6	277	9420	9833	12348	3495	564	59	0	10	283	35096	623	36011
1959	0	0	0	14	144	7605	8704	5505	4684	2523	129	0	0	158	26497	2652	29307
1960	0	0	0	0	473	10114	8214	3561	2293	638	99	0	0	473	24182	737	25392
1961	0	148	0	15	1651	6879	13058	5485	2962	1942	15	0	148	1666	28384	1957	32155
1962	10	0	0	8	1085	4140	9553	6339	4912	415	351056	10	1093	24944	1506	27553	
1963	1	0	1	7	167	6655	9657	11950	2549	884	143	0	1	175	30810	1027	32014
1964	0	0	0	0	47	7634	6986	6910	3299	2706	258	1	0	47	24829	2965	27841
1965	81	0	0	58	4	5957	8757	4820	1324	1	76	630	81	62	20858	707	21708
1966	0	1	0	2	662	3846	10367	2099	2926	440	1340	7	1	663	19238	1787	21689
1967	0	0	19	9	78	7820	10064	2946	3492	784	9	151	0	106	24322	944	25372
1968	0	0	1	120	21	4522	7676	2044	1932	967	28	0	0	142	16174	995	17311
1969	0	0	0	9	8	6310	10576	3918	5611	188	268	3	0	17	26415	458	26891
1970	0	0	0	4	586	9918	7773	8667	2399	475	0	0	0	590	28757	475	29822
1971	0	0	0	2	607	9240	4681	5315	3163	292	61	0	0	609	22399	353	23361
1972	0	11	0	25	105	7532	5376	2013	1072	22	469	0	11	130	15993	491	16624
1973	0	3	0	5	51	3708	8061	8932	4029	736	31	0	3	56	24729	767	25556
1974	50	0	0	70	849	5906	10377	6336	2254	1893	0	0	50	919	24872	1893	27734
1975	0	0	0	8	87	8185	9179	7059	5533	1750	76	0	0	95	29956	1826	31877
1976	0	0	14	0	61	5238	10323	5597	3175	27	589	0	0	75	24333	616	25024
1977	0	0	5	0	177	4813	13006	4567	3538	266	815	6	0	182	25924	1087	27193
1978	0	0	0	45	1075	9556	9048	4449	3008	513	267	0	0	1120	26060	780	27960
1979	0	7	6	0	10	7750	6504	5067	2821	94	1035	0	7	16	22142	1129	23294
1980	1	0	0	47	11	8139	6097	6671	1878	166	92	236	1	57	22785	494	23338
1981	0	0	0	0	16	6276	8341	5490	5874	388	134	0	0	16	25981	522	26519
1982	0	0	0	0	61	7110	9341	5623	1756	240	987	0	0	61	23830	1227	25118
1983	0	0	0	1	12	5464	11173	12622	6296	1025	29	18	0	13	35555	1072	36639
1984	0	11	4	4	6	7601	9490	4050	2744	625	11	0	11	14	23885	636	24546
1985	0	0	1	10	450	10038	7287	5576	1670	1614	7	0	0	461	24571	1620	26653
1986	0	0	0	1	10	6780	2916	5226	580	114	266	12	0	11	15502	392	15904
1987	0	7	0	10	91	6870	8032	9009	1503	1258	57	168	7	101	25414	1483	27005
1988	0	0	0	51	0	4860	12471	5577	5808	760	0	0	0	51	28716	760	29527
1989	1	0	6	42	60	8299	9122	5494	2647	813	10	1	1	107	25562	824	26495
1990	0	0	12	0	2600	8061	5388	9576	3936	1430	117	0	0	2612	26961	1547	31120
1991	0	0	0	44	48	8182	7198	4445	791	441	16	24	0	92	20616	481	21189

1992	0	0	0	0	26	4277	8667	8986	2519	650	26	0	0	26	24449	676	25151
1993	0	0	0	5	89	6342	11152	4923	5820	1307	4	23	0	94	28237	1334	29665
1994	32	0	0	83	78	6849	9143	4733	3265	911	2	0	32	161	23990	912	25096
1995	79	0	0	39	102	3003	9572	5637	3135	1559	16	0	79	141	21347	1575	23142
1996	2	0	0	0	2	6258	12122	6119	2335	2266	11	5	2	2	26834	2282	29120
1997	28	0	0	1	1	8087	9420	7796	3444	161	355	822	28	2	28746	1337	30114
1998	0	0	0	0	77	7294	8527	7246	5005	2898	511	1	0	77	28072	3410	31559
1999	0	0	0	0	1474	8663	8495	2006	2956	1182	0	0	0	1474	22120	1182	24776
2000	0	0	0	3	1653	8367	12691	7116	1009	716	36	65	0	1656	29182	817	31656
2001	124	0	0	2	1071	6070	6573	4558	2847	1005	11	0	124	1073	20048	1016	22261
2002	0	0	3	2	369	9621	2589	7300	1493	801	120	6	0	374	21003	927	22304
2003	8	4	0	0	0	7994	9656	4127	2659	173	47	0	12	0	24435	220	24667
2004	0	0	0	0	1189	6873	8552	7603	2277	324	110	0	0	1189	25305	434	26927
2005	8	2	0	49	46	6754	10313	7181	5884	1007	0	0	10	95	30132	1007	31244
2006	0	0	92	0	3695	7478	8786	7399	4572	2109	131	0	0	3787	28234	2240	34262
2007	1	2	0	22	199	9458	8480	9384	6592	310	165	0	3	221	33914	475	34613
2008	0	0	72	16	334	7048	7312	6009	5103	304	8	186	0	422	25472	498	26392
2009	0	0	46	0	49	4099	10917	2985	4808	2800	1086	0	0	95	22809	3886	26790
2010	5	0	0	3	74	7481	13271	8953	3780	1650	885	4	5	77	33485	2539	36106
2011	0	0	0	16	14	8414	14694	8646	3778	760	33	0	0	30	35532	793	36355
2012	0	0	0	0	5	5971	8701	5369	5189	1849	8	0	0	5	25230	1857	27092
2013	0	0	0	0	173	10147	11471	3317	2850	1397	10	1	0	173	27785	1408	29366
2014	0	1	0	18	179	1856	12426	5970	4317	675	99	175	1	196	24569	949	25715
2015	19	1	367	21	116	7841	4381	2686	2316	731	278	0	20	504	17224	1008	18757
2016	0	1	20	3	18	7874	10332	5628	5466	791	19	0	1	41	29300	810	30152

 Values are up to 1 decimal

MEAN	30	6	9	27	319	6850	8790	5373	3231	935	209	38	37	356	24245	1184	25824
P-Ann	1	0	0	1	12	265	340	208	125	36	8	1	1	13	938	45	1000
SD	163	28	37	74	611	2014	2672	2368	1629	858	347	133	165	614	4726	939	4993
CV	53784078	4118	2699	1910	294	304	440	504	917	165734254423	1722	194	792	193			

Table 25: MADHYA MAHARASHTRA SUBDIVISION, AREA 115306 SQ.KM 4.00 PER, 9 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	999	0	0	143	189	1133	1002	898	851	360	185	0	999	332	3884	545	5760
1872	0	0	26	151	121	1502	2076	623	2465	209	2	372	0	298	6666	583	7547
1873	0	121	0	79	626	1413	1541	1333	1614	242	451	1	121	705	5901	694	7420
1874	0	48	0	139	470	2192	1922	929	2208	845	49	23	48	609	7251	917	8825
1875	7	1	43	74	136	1391	2541	1742	2022	330	17	198	8	253	7696	545	8502
1876	0	0	62	15	12	847	2057	905	246	59	27	0	0	89	4055	86	4230
1877	64	80	38	173	71	1864	642	1213	1624	961	104	95	144	282	5343	1160	6929
1878	0	0	0	207	68	877	2464	3286	2788	1256	134	0	0	275	9414	1390	11080
1879	0	22	1	64	792	2012	1265	2303	425	742	112	6	22	857	6005	859	7743
1880	0	0	73	77	194	954	1455	524	1978	886	277	0	0	344	4911	1163	6418
1881	0	0	0	139	285	471	1795	1166	1008	428	312	14	0	424	4440	754	5618
1882	13	0	42	72	379	2729	2600	772	2244	170	324	45	13	493	8345	539	9390
1883	35	0	11	105	201	2510	1865	1924	2211	1807	193	0	35	317	8510	2000	10862
1884	67	0	4	155	12	477	2692	1069	1447	1237	42	525	67	171	5685	1804	7727
1885	0	0	30	74	433	431	1696	1334	1836	1241	210	189	0	537	5297	1640	7474
1886	0	0	0	62	406	1974	1669	1218	970	2284	124	614	0	468	5831	3021	9321
1887	0	0	3	43	382	1324	2512	1323	1526	703	942	44	0	428	6685	1689	8802
1888	264	27	58	40	239	1090	1840	990	983	593	456	3	291	337	4903	1052	6582
1889	0	0	20	137	315	957	1491	778	2324	1439	1	0	0	472	5550	1440	7461
1890	0	0	9	235	24	1502	1424	1174	1170	616	655	438	0	268	5270	1709	7246
1891	0	45	21	108	122	623	2478	1310	1118	843	41	0	45	250	5529	884	6708
1892	0	25	0	212	406	1914	1780	1542	2414	1958	113	10	25	618	7650	2081	10374
1893	46	0	214	148	981	2643	752	1476	693	977	313	0	46	1343	5564	1290	8243
1894	9	169	84	113	105	939	2798	757	1498	971	0	0	178	302	5991	971	7442
1895	18	67	12	71	86	1362	1552	1186	2144	1572	263	30	85	169	6244	1865	8363
1896	18	0	0	147	218	1852	3038	1415	216	92	151	316	18	365	6521	559	7462
1897	0	1	0	163	174	681	1562	1487	2005	1351	97	0	1	336	5735	1448	7521
1898	0	86	38	219	151	1024	1994	944	1798	815	167	42	86	408	5760	1023	7278
1899	0	0	22	291	167	1177	409	261	735	384	0	0	0	480	2582	384	3446
1900	1	0	45	125	34	796	2165	2187	819	322	72	1	1	204	5967	395	6567
1901	171	4	81	329	378	1241	1527	1325	781	652	28	2	175	788	4874	682	6518
1902	62	0	0	62	90	973	1791	802	1825	699	268	631	62	152	5391	1597	7203
1903	93	0	0	25	697	992	2591	1317	1477	778	57	31	93	722	6377	866	8058
1904	4	22	9	37	203	723	952	420	1789	864	0	0	26	249	3884	864	5023
1905	0	13	0	5	247	600	2285	635	441	738	104	0	13	252	3961	842	5068
1906	93	0	0	3	102	1735	1474	1708	672	291	138	173	93	105	5589	602	6388
1907	16	34	15	545	6	1062	2629	2109	1117	69	31	1	50	566	6917	101	7633
1908	0	0	58	97	90	835	2142	1377	1603	237	14	0	0	245	5957	251	6453
1909	6	0	3	4	464	1855	1847	1058	1718	275	23	42	6	471	6478	340	7295
1910	0	0	11	0	134	2023	1493	1846	1868	762	407	0	0	145	7230	1169	8544
1911	37	0	26	3	103	975	1195	1219	213	263	468	91	37	132	3601	822	4592
1912	0	7	0	74	161	544	2681	1150	286	1014	605	0	7	235	4661	1619	6522
1913	0	0	0	71	337	2625	1840	877	915	418	10	33	0	408	6257	461	7126
1914	0	0	1	45	101	1794	3000	1861	1859	96	405	68	0	147	8514	569	9229
1915	75	65	158	259	240	1959	2094	585	2388	685	206	180	140	657	7026	1071	8894
1916	0	0	0	53	671	1085	2409	1282	1965	1379	944	0	0	724	6741	2323	9788
1917	0	176	64	51	101	1404	713	1247	1692	1737	405	0	176	216	5056	2142	7590
1918	124	21	11	21	925	424	481	818	381	174	294	34	145	957	2104	502	3708
1919	44	0	43	24	429	1645	1571	946	2195	479	393	33	44	496	6357	905	7802
1920	367	5	0	157	120	802	1316	643	1271	300	0	0	372	277	4032	300	4981
1921	10	0	0	121	27	915	2529	796	958	439	298	0	10	148	5198	737	6093
1922	242	30	0	217	280	1518	1448	446	617	454	1481	17	272	497	4029	1952	6750
1923	19	27	317	111	162	234	2428	828	1936	103	0	36	46	590	5426	139	6200
1924	32	0	19	181	35	657	1342	1921	1929	562	29	33	32	235	5849	624	6740
1925	0	0	14	26	420	1154	1235	811	1224	303	558	29	0	460	4424	890	5774
1926	378	5	0	6	160	864	1960	1965	1194	87	93	10	383	166	5983	190	6722
1927	0	21	14	37	256	1460	1988	506	1677	305	884	15	21	307	5631	1204	7163

1928	0	127	29	155	7	1371	1522	1189	2012	690	21	124	127	191	6093	835	7247
1929	2	81	40	447	79	1601	1398	457	1431	741	38	17	83	566	4887	796	6331
1930	0	0	25	58	289	1402	1557	730	2363	1111	315	45	0	372	6052	1471	7894
1931	0	0	9	151	22	1358	2247	1308	1446	1607	847	204	0	182	6359	2658	9199
1932	0	15	67	177	308	854	2633	1755	1374	1752	308	81	15	552	6616	2141	9324
1933	0	15	26	61	1008	1712	1397	2138	2420	705	286	276	15	1095	7667	1267	10044
1934	31	0	4	123	88	1140	1927	1899	1378	439	926	1	31	215	6344	1366	7955
1935	3	0	0	29	12	1200	1457	1491	947	1273	41	27	3	41	5095	1341	6480
1936	23	48	37	72	203	1414	595	608	1414	195	1188	3	71	312	4030	1386	5800
1937	0	8	25	540	41	985	1994	270	2133	955	0	140	8	606	5382	1095	7091
1938	0	28	372	183	449	1996	2414	1227	1916	1251	108	9	28	1004	7553	1367	9953
1939	10	0	44	66	0	823	2089	1391	534	388	216	20	10	110	4837	624	5581
1940	5	9	4	209	185	1622	1255	1409	1201	801	189	60	14	398	5487	1050	6948
1941	275	80	34	48	30	578	2431	660	1324	352	0	1	355	112	4993	353	5813
1942	4	31	13	74	82	1788	2608	1407	476	222	6	470	35	169	6278	698	7181
1943	93	0	10	73	609	1274	2136	555	1500	2145	105	0	93	692	5465	2250	8500
1944	5	6	85	0	305	1045	3198	1449	1150	1286	93	0	11	390	6841	1379	8622
1945	45	0	0	117	54	771	1752	1805	850	338	68	11	45	171	5178	416	5811
1946	0	20	1	219	435	1401	2295	1749	1536	179	1309	114	20	655	6981	1601	9258
1947	124	5	52	352	271	469	1792	2157	1922	173	91	185	129	675	6340	449	7593
1948	165	1	62	50	51	1315	1703	1426	1336	732	1199	0	166	163	5780	1931	8040
1949	0	0	25	15	671	868	1373	1292	2926	723	35	0	0	711	6459	758	7928
1950	0	2	10	75	256	352	2711	596	1902	673	4	23	2	341	5561	700	6604
1951	7	0	8	85	198	926	1568	797	606	1371	204	0	7	291	3896	1575	5770
1952	0	16	0	102	271	1352	1654	784	404	516	0	4	16	373	4193	520	5103
1953	32	0	0	262	0	1209	1703	1528	1131	1085	0	0	32	262	5571	1085	6950
1954	36	4	210	62	130	1407	2243	1266	1714	327	0	103	40	402	6630	430	7501
1955	9	0	54	199	294	1095	1124	1833	2125	1678	132	0	9	547	6177	1810	8543
1956	11	3	0	156	889	1059	2390	1804	1638	1655	780	17	14	1045	6891	2452	10402
1957	4	0	33	215	489	1554	1413	1490	894	1004	293	0	4	737	5351	1297	7389
1958	7	0	86	201	375	809	2656	2519	621	776	316	2	7	662	6605	1094	8368
1959	51	0	0	138	376	1421	2394	1405	1645	838	505	0	51	514	6865	1343	8773
1960	45	0	66	142	680	1288	1499	851	2112	333	184	4	45	888	5750	521	7204
1961	7	0	1	181	1134	1452	2789	953	769	1033	55	29	7	1316	5963	1117	8403
1962	0	11	109	143	634	424	2243	1126	1616	568	267	556	11	886	5409	1391	7697
1963	0	73	132	104	228	1296	2233	1927	516	871	131	6	73	463	5972	1007	7516
1964	0	0	54	54	61	1262	1813	1670	2107	691	268	22	0	169	6852	980	8001
1965	43	1	3	154	162	492	2759	1871	498	89	111	302	44	319	5620	502	6485
1966	74	0	23	44	703	482	2064	509	1524	119	783	98	74	770	4579	1000	6423
1967	2	1	119	130	82	1264	3201	1182	1419	448	50	653	3	331	7066	1151	8551
1968	5	49	55	132	79	733	1559	1660	1432	615	155	7	54	266	5384	777	6481
1969	2	1	10	65	50	1494	2511	1721	2097	276	224	11	3	125	7823	511	8462
1970	14	0	0	121	583	1901	1253	1684	1386	944	0	0	14	704	6224	944	7886
1971	0	0	0	35	459	1293	657	1573	1746	407	0	0	0	494	5269	407	6170
1972	0	0	0	47	187	613	1261	716	821	103	339	3	0	234	3411	445	4089
1973	0	36	2	40	163	1325	2387	1484	1352	1195	43	6	36	205	6548	1244	8032
1974	0	11	82	189	448	698	1505	1476	1910	1399	0	0	11	718	5589	1399	7718
1975	17	41	4	21	224	1277	1976	1784	2291	1317	60	0	58	249	7328	1377	9012
1976	0	0	79	78	56	1907	2421	1652	604	86	561	44	0	213	6584	691	7488
1977	0	4	154	110	263	1420	1584	741	667	792	1045	75	4	527	4412	1912	6855
1978	14	136	59	401	408	1440	1046	1228	1070	443	683	12	150	868	4784	1138	6940
1979	43	28	88	11	92	803	1547	1924	2546	295	892	18	71	191	6820	1205	8287
1980	1	0	93	193	38	1949	1182	1980	683	129	135	115	1	323	5793	379	6498
1981	102	3	39	113	164	1208	2117	1400	2527	750	70	7	105	316	7252	827	8500
1982	6	1	12	153	545	812	1036	1022	1281	407	547	0	7	710	4151	954	5822
1983	6	0	0	3	12	1178	1517	1999	2623	471	43	45	6	15	7316	559	7896
1984	6	178	92	110	15	817	2176	690	1313	1434	44	4	184	217	4996	1481	6879
1985	22	0	2	64	156	773	1274	746	764	850	223	0	22	222	3557	1073	4874
1986	39	74	1	23	120	1919	822	1236	773	71	145	268	113	144	4750	484	5491
1987	32	29	22	31	427	1017	1127	1778	500	1266	479	417	61	480	4422	2162	7125
1988	0	3	0	175	121	823	2377	1450	2978	166	9	75	3	296	7628	250	8176
1989	0	0	189	82	286	1320	2121	1107	1886	167	21	34	0	557	6434	222	7213
1990	9	0	0	0	674	1447	1577	2330	992	1333	288	18	9	674	6346	1639	8668
1991	0	0	3	199	315	3316	2349	745	654	207	40	0	0	517	7064	247	7828

1992	0	0	0	51	100	1346	1227	1472	1096	537	108	0	0	151	5141	645	5937
1993	0	0	38	91	159	1188	2241	1100	1193	1731	140	289	0	288	5722	2160	8170
1994	22	0	11	261	304	2036	1987	1253	744	729	132	0	22	576	6020	861	7479
1995	209	0	64	83	277	681	1638	530	1267	1283	32	0	209	424	4116	1315	6064
1996	4	0	0	129	29	1434	1870	1226	1399	1329	115	8	4	158	5929	1452	7543
1997	7	0	23	153	229	1630	1680	1614	656	650	785	414	7	405	5580	1849	7841
1998	0	0	6	27	234	1190	1819	1727	2015	1403	273	0	0	267	6751	1676	8694
1999	0	95	0	0	440	1629	1487	462	1389	1353	0	0	95	440	4967	1353	6854
2000	4	27	4	30	754	1658	1327	1258	887	588	62	35	31	788	5130	685	6634
2001	54	0	3	108	62	1209	918	837	1865	1081	54	0	54	173	4829	1135	6191
2002	11	91	4	144	140	1956	482	1476	777	350	90	0	102	288	4691	440	5521
2003	29	50	80	116	45	1440	1283	1209	905	464	41	1	79	241	4837	506	5662
2004	1	8	0	70	562	1919	1265	2277	1609	302	121	0	9	632	7070	423	8133
2005	31	8	41	252	217	1717	2397	1821	2272	657	0	0	39	510	8207	657	9413
2006	0	0	97	21	444	2019	2565	3069	1699	827	540	3	0	562	9352	1370	11284
2007	0	0	0	132	150	2238	1915	1837	1742	35	94	0	0	282	7732	129	8143
2008	0	0	318	71	82	846	1185	1743	2734	685	100	62	0	471	6508	847	7826
2009	0	0	92	48	187	664	2125	1153	1514	907	948	93	0	327	5456	1948	7731
2010	57	6	37	122	57	2010	2166	1879	1373	888	776	18	62	215	7428	1682	9389
2011	0	36	0	145	89	1030	1815	1640	1146	778	0	0	36	234	5631	778	6678
2012	0	0	0	193	97	386	1272	1127	814	964	47	0	0	290	3599	1011	4900
2013	4	102	6	51	155	1788	2314	1046	1781	754	41	15	105	212	6929	810	8056
2014	80	116	225	82	309	375	2282	2391	986	435	336	249	196	616	6034	1020	7866
2015	14	8	412	96	252	1411	803	457	1382	445	189	1	22	760	4053	635	5470
2016	0	7	71	14	79	847	2433	1583	1620	571	12	11	7	164	6483	594	7248

 Values are up to 1 decimal

MEAN	36	19	41	115	261	1267	1822	1310	1424	731	250	71	55	419	5825	1053	7353
P-Ann	4	2	5	15	35	172	247	178	193	99	34	9	7	57	792	143	1000
SD	102	37	69	95	232	542	602	545	635	489	307	138	107	251	1252	582	1436
CV	28281893	1667	827	888	428	330	415	446	669	123019491927	600	215	553	195			

Table 26: MARATHWADA SUBDIVISION, AREA 64525 SQ.KM 2.24 PER, 5 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	97	0	0	136	126	730	712	230	763	0	44	0	97	262	2435	44	2838
1872	0	0	0	473	0	1810	3446	2328	3234	449	0	191	0	473	10817	640	11931
1873	87	47	0	324	618	1064	1027	2699	3092	0	115	0	134	942	7882	115	9073
1874	0	0	0	0	87	1059	4034	558	2284	111	0	0	0	87	7935	111	8132
1875	0	0	0	28	284	1857	2002	2207	4063	550	0	260	0	312	10129	810	11251
1876	22	0	0	0	48	1126	1507	1525	633	72	0	0	22	48	4791	72	4933
1877	159	10	0	67	94	1065	651	935	1817	789	186	302	169	160	4468	1277	6075
1878	0	0	118	230	41	936	2504	3347	2086	1051	8	0	0	388	8873	1059	10321
1879	0	14	0	0	499	1820	1995	3036	827	764	61	0	14	499	7678	825	9016
1880	0	0	49	2	191	1738	1434	564	3331	873	394	0	0	242	7067	1267	8576
1881	0	4	79	78	308	1577	1218	1458	1761	609	530	10	4	465	6014	1149	7632
1882	40	0	0	13	82	2893	2459	914	2797	177	419	9	40	95	9063	605	9803
1883	0	0	42	0	97	2820	1032	3582	3221	844	43	0	0	139	10655	887	11681
1884	26	0	0	101	0	725	2015	1059	2510	800	0	856	26	101	6309	1656	8091
1885	0	0	70	200	325	562	1188	927	2381	698	175	464	0	595	5058	1337	6990
1886	0	0	3	13	629	2155	2585	1988	980	2205	59	587	0	645	7708	2851	11204
1887	0	0	0	96	442	1270	2059	2769	1936	625	251	10	0	538	8034	886	9457
1888	268	80	40	27	87	1713	1763	659	1099	393	924	60	348	154	5234	1377	7113
1889	0	0	20	127	34	1280	2789	1516	2438	1718	0	0	0	181	8023	1718	9922
1890	0	0	63	74	42	2169	2258	1411	1622	361	654	348	0	179	7460	1363	9002
1891	48	193	39	110	22	709	1557	1634	2242	266	0	0	240	171	6142	266	6819
1892	0	0	0	61	260	2322	1697	4931	4054	1585	98	1	0	321	13004	1684	15009
1893	22	78	922	6	805	1964	1184	3458	2693	1467	401	0	100	1732	9299	1867	12999
1894	1	27	67	69	56	1102	1320	1862	4878	463	44	0	28	192	9162	507	9889
1895	21	84	6	193	81	1590	1876	1281	3668	965	167	0	105	280	8415	1132	9932
1896	0	0	1	15	52	1667	2233	1267	291	5	190	59	0	68	5458	254	5780
1897	12	0	7	87	10	1068	1750	1318	3139	587	0	0	12	104	7275	587	7978
1898	0	74	0	115	161	888	2569	406	2208	140	93	0	74	276	6071	233	6654
1899	0	0	1	374	143	883	226	573	1348	0	0	0	0	518	3030	0	3548
1900	6	0	81	70	1	1516	2288	1267	1244	65	5	0	6	152	6315	70	6543
1901	197	32	336	617	423	2002	1828	2430	750	799	0	0	229	1376	7010	799	9414
1902	14	0	5	93	8	513	1078	836	2905	641	799	586	14	106	5332	2026	7478
1903	20	5	0	13	603	990	2617	2740	1840	1137	3	58	25	616	8187	1198	10026
1904	0	7	130	2	65	776	1199	595	3503	721	0	0	7	197	6073	721	6997
1905	14	21	0	89	48	865	903	1246	1530	167	10	0	35	137	4544	177	4893
1906	241	0	0	0	1	2233	2645	1675	814	216	38	127	241	1	7367	381	7990
1907	8	55	9	678	0	921	2009	1575	346	55	0	29	63	687	4851	84	5685
1908	0	5	135	28	21	948	1240	1670	2685	5	0	0	5	184	6543	5	6737
1909	63	13	102	39	252	2273	2057	1740	2401	228	0	184	76	393	8471	411	9352
1910	0	0	13	0	39	1939	1623	1875	4415	578	406	0	0	52	9852	983	10888
1911	64	0	0	0	35	923	2442	1729	731	2	439	0	64	35	5825	441	6365
1912	0	115	0	75	87	663	1821	1450	312	268	163	0	115	162	4246	431	4954
1913	0	32	0	232	395	1795	2408	771	680	198	0	161	32	627	5654	359	6671
1914	0	89	63	8	177	3161	1767	1622	2486	207	189	255	89	248	9036	651	10024
1915	279	29	580	192	115	2167	1475	889	2924	1038	123	264	308	887	7455	1425	10075
1916	0	39	31	18	512	1540	3685	1488	3126	1066	424	0	39	561	9839	1490	11929
1917	15	532	113	81	161	1784	1392	2595	3329	1087	409	0	547	355	9100	1496	11497
1918	4	0	1	8	1277	829	658	787	921	53	104	189	4	1285	3195	346	4831
1919	121	10	2	50	111	1599	1247	943	2278	260	191	11	131	163	6066	461	6822
1920	273	0	2	30	24	625	571	809	1170	48	0	0	273	56	3175	48	3551
1921	20	0	0	26	0	1431	1776	688	1148	323	80	0	20	26	5043	403	5492
1922	522	21	0	33	202	2116	1233	330	2088	466	1164	15	543	235	5767	1645	8190
1923	31	3	553	100	8	183	2837	722	2974	1	0	7	34	661	6716	8	7418
1924	27	0	59	89	0	492	1295	1870	2043	602	81	126	27	148	5700	809	6683
1925	0	0	0	0	304	1196	789	1783	765	387	759	0	0	304	4533	1146	5983
1926	724	0	0	17	169	820	1250	2659	1637	0	89	18	724	186	6366	107	7383
1927	0	22	128	80	0	1824	1490	690	1755	382	1257	4	22	208	5759	1642	7632

1928	0	290	67	26	0	1600	1509	1387	2772	649	0	16	290	92	7268	665	8316
1929	0	323	9	258	20	1694	1026	481	1683	564	0	41	323	287	4884	605	6099
1930	0	6	22	102	50	1336	526	794	2841	598	178	2	6	174	5497	777	6455
1931	0	0	56	55	50	1208	2713	1174	2372	2008	828	167	0	161	7466	3003	10631
1932	0	28	95	93	238	1085	2546	1669	1701	639	314	78	28	426	7001	1031	8486
1933	58	59	122	150	780	1910	1873	1798	3184	327	154	284	117	1052	8765	765	10699
1934	46	0	0	122	14	982	2401	3089	1751	163	830	0	46	136	8222	993	9398
1935	81	0	0	129	4	2119	1794	1911	2433	927	48	15	81	133	8257	990	9461
1936	3	292	58	95	296	1093	847	1058	1367	45	1550	30	295	449	4365	1625	6734
1937	0	131	79	424	18	788	2407	286	1626	1245	3	219	131	521	5107	1467	7226
1938	0	26	203	99	304	2287	3033	1482	2720	816	2	5	26	606	9522	822	10977
1939	1	0	15	130	2	958	1762	1771	632	137	215	9	1	147	5123	361	5632
1940	0	8	0	118	142	1974	1756	2131	1334	587	315	21	8	260	7195	922	8386
1941	130	91	20	9	0	368	1045	1243	2119	155	0	0	221	29	4775	155	5180
1942	0	155	0	94	51	2422	1718	2720	1169	50	0	904	155	145	8029	954	9283
1943	107	3	20	2	479	1835	1253	567	3219	1834	12	0	110	501	6874	1845	9331
1944	6	100	365	0	59	892	2190	1122	1554	934	122	0	106	424	5758	1056	7344
1945	26	0	0	80	6	1212	1215	1384	1728	369	12	0	26	86	5538	381	6032
1946	0	87	0	236	213	1712	1534	1075	1818	85	1019	169	87	449	6138	1273	7948
1947	367	203	106	183	37	779	1471	2925	2406	97	29	113	570	326	7581	239	8716
1948	98	29	57	51	26	2057	2273	1133	1655	229	1429	0	127	134	7118	1657	9037
1949	44	6	0	15	461	1960	2095	919	3905	357	47	0	50	476	8879	404	9809
1950	0	119	85	4	121	680	1370	1182	3064	502	0	21	119	210	6296	523	7148
1951	5	0	25	92	171	1369	2553	1106	663	1054	25	0	5	288	5691	1079	7063
1952	0	175	0	48	390	1368	1699	952	1485	577	0	25	175	438	5504	602	6719
1953	0	0	0	274	0	2141	2296	1355	2562	808	0	0	0	274	8354	808	9436
1954	0	0	145	130	75	2014	3120	1065	2831	168	0	110	0	350	9030	278	9658
1955	67	0	49	37	159	2343	2178	3589	1969	1179	20	0	67	245	10079	1199	11590
1956	11	0	0	33	964	919	2741	1670	2054	606	752	0	11	997	7384	1357	9750
1957	0	0	150	191	360	1052	2271	2827	806	791	27	0	0	701	6956	817	8474
1958	0	0	71	208	203	685	3129	3943	896	290	593	0	0	481	8652	883	10017
1959	30	0	4	143	185	2130	2129	1963	3006	1617	124	0	30	332	9228	1740	11331
1960	13	0	198	20	769	1214	1596	763	2326	677	210	5	13	987	5899	892	7791
1961	0	4	118	114	785	1687	2894	1788	951	2671	149	20	4	1017	7319	2840	11181
1962	8	0	87	518	534	845	1401	2294	2881	378	424	553	8	1139	7421	1355	9922
1963	0	55	76	136	85	2106	1803	4276	851	931	7	0	55	297	9036	937	10326
1964	0	0	121	77	19	1004	2117	1600	2200	198	53	0	0	216	6921	250	7388
1965	21	8	3	123	16	1242	2535	2069	729	78	3	186	28	142	6575	267	7012
1966	188	0	75	32	295	683	2364	854	1973	74	593	301	188	402	5874	967	7432
1967	14	20	53	36	183	1223	2493	1151	1363	422	35	885	34	272	6230	1342	7878
1968	92	351	435	225	0	811	2278	625	2093	370	289	6	443	660	5807	665	7575
1969	0	0	2	4	55	1299	2022	1598	2356	204	320	2	0	61	7275	526	7862
1970	111	0	0	174	262	2173	1165	3908	1898	387	0	0	111	436	9144	387	10078
1971	9	0	0	0	325	868	268	2014	1614	1477	0	0	9	325	4764	1477	6575
1972	0	0	0	2	57	1049	536	855	744	3	366	0	0	58	3184	368	3611
1973	0	15	2	84	9	922	1960	3595	1396	1230	3	0	15	94	7873	1233	9216
1974	0	3	24	63	754	1117	1330	1611	1521	1680	0	0	3	841	5579	1680	8103
1975	20	78	93	0	101	1295	2241	2302	3329	1391	1	0	98	194	9167	1392	10851
1976	0	0	27	97	43	1151	2014	2067	561	55	334	0	0	167	5793	389	6349
1977	0	72	41	27	112	1163	1387	1314	1345	685	1175	8	72	180	5209	1868	7328
1978	159	218	127	81	198	2308	1942	1200	849	716	337	28	376	406	6299	1081	8163
1979	15	139	80	23	141	1414	1933	1572	2666	316	1094	17	154	244	7585	1427	9410
1980	0	0	53	101	13	2064	1179	3099	1134	0	31	179	0	167	7476	210	7853
1981	371	3	234	29	188	1218	1585	1538	3225	693	97	177	373	451	7566	967	9358
1982	272	7	438	160	413	729	2493	1006	1928	345	300	0	279	1011	6156	645	8091
1983	0	0	35	0	146	1085	1947	3035	4474	1106	1	92	0	181	10541	1199	11920
1984	20	302	0	1	0	398	1190	762	1315	1264	26	4	322	1	3665	1294	5282
1985	124	0	89	89	121	1186	2115	563	1036	784	1	24	124	299	4900	809	6132
1986	128	67	1	0	55	1382	1193	1172	1397	45	105	306	195	56	5144	456	5851
1987	137	94	27	3	313	1519	1306	2134	406	1532	387	74	230	343	5365	1992	7932
1988	0	0	5	92	92	1882	2942	3230	4522	98	87	31	0	189	12576	216	12981
1989	0	0	461	40	82	2062	4267	2547	1665	217	9	92	0	583	10541	318	11442
1990	21	0	0	0	1576	2222	1277	4071	1583	2293	33	0	21	1576	9153	2326	13076
1991	6	10	0	145	122	2934	2532	409	460	56	64	0	16	267	6335	120	6738

1992	0	0	1	50	96	2470	800	2245	1792	462	205	0	0	147	7307	667	8121
1993	0	19	108	105	134	922	2328	1570	1403	1284	75	517	19	346	6223	1875	8464
1994	92	6	0	189	313	1197	1160	1437	1195	739	302	0	98	501	4989	1041	6630
1995	508	21	314	109	235	1168	1624	948	1534	1115	7	0	529	658	5274	1122	7583
1996	0	8	2	187	28	345	2301	2004	2898	1212	27	7	8	217	7548	1245	9019
1997	99	0	84	131	104	816	1562	1046	1496	847	621	777	99	319	4920	2244	7583
1998	0	0	10	34	278	1923	2321	2887	2641	1952	399	0	0	322	9772	2351	12445
1999	0	109	0	0	390	1732	1172	1236	2335	850	0	0	109	390	6475	850	7824
2000	1	105	8	13	505	2226	1734	3398	671	321	41	23	106	526	8028	384	9045
2001	49	0	7	75	5	1385	603	2871	879	1969	0	0	49	87	5738	1969	7843
2002	121	82	6	78	90	2430	757	2242	1122	465	36	0	203	174	6551	501	7429
2003	10	24	6	39	369	1125	2783	1670	621	116	51	25	34	414	6198	192	6838
2004	18	0	45	11	574	1075	1676	792	1725	566	276	0	18	630	5268	842	6758
2005	72	5	109	86	39	486	4389	1296	1904	924	0	0	77	234	8075	924	9310
2006	0	0	282	1	520	1506	1033	3120	1896	499	44	0	0	803	7555	543	8901
2007	0	0	2	74	120	2353	1488	1759	2252	0	722	439	0	196	7852	2511	10559
2008	14	0	155	109	27	857	879	1793	3379	320	43	2	14	291	6908	365	7578
2009	0	0	3	38	198	562	1536	1768	1625	677	626	79	0	239	5491	1381	7112
2010	50	69	134	5	56	1351	3368	2821	1311	544	281	0	119	195	8851	825	9990
2011	0	106	1	102	139	599	2684	2242	952	297	0	0	106	242	6477	297	7122
2012	0	0	0	48	50	494	1458	720	1451	653	12	0	0	98	4123	665	4886
2013	9	8	49	13	57	1838	3461	1393	2102	919	97	6	17	119	8794	1022	9952
2014	24	81	459	115	146	503	1414	2097	809	94	100	6	105	720	4823	200	5848
2015	139	22	404	590	137	1169	269	1005	1893	162	50	0	161	1131	4336	212	5840
2016	0	31	108	30	70	1545	2715	799	3709	839	0	2	31	208	8768	841	9848

 Values are up to 1 decimal

MEAN	51	40	74	96	199	1397	1842	1697	1958	617	206	97	91	370	6895	921	8279
P-Ann	6	4	9	11	24	168	222	205	236	74	24	11	11	44	832	111	1000
SD	106	80	134	119	249	615	786	935	992	544	314	262	133	315	1895	639	2136
CV	2093	1977	1801	1241	1252	440	427	551	506	881	1524	2685	1459	853	274	693	257

Table 27: VIDARBHA SUBDIVISION, AREA 97536 SQ.KM 3.39 PER, 8 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	304	62	31	12	189	2015	2640	476	2387	7	102	13	366	232	7518	122	8238
1872	0	0	22	376	13	1792	3820	1977	2463	604	0	82	0	411	10052	686	11149
1873	10	105	49	12	405	1102	2206	2251	2145	0	38	1	115	466	7704	39	8324
1874	46	78	14	40	217	2201	3169	1509	2002	124	61	9	124	271	8881	194	9470
1875	14	148	3	56	138	2460	3519	2219	2291	1030	3	16	162	197	10489	1049	11897
1876	0	0	6	0	74	734	2580	2935	1498	70	0	0	0	80	7747	70	7897
1877	521	121	130	591	189	1375	2349	2083	1000	535	21	464	642	910	6807	1020	9379
1878	19	82	122	238	217	963	3709	4787	2409	865	0	0	100	577	11868	865	13411
1879	0	122	0	0	1020	2021	1637	4805	1702	785	140	1	122	1020	10165	926	12232
1880	0	29	27	2	89	1452	2566	1016	2818	657	469	0	29	117	7851	1126	9125
1881	1	2	526	62	109	3223	3263	2763	1869	262	501	0	3	697	11117	763	12580
1882	193	3	1	52	199	1757	4466	964	2118	50	485	0	195	251	9305	535	10288
1883	48	0	56	0	64	2844	4147	3347	3378	1641	85	0	48	120	13716	1726	15610
1884	97	11	37	42	29	1244	4702	3100	3682	315	0	1077	108	107	12728	1392	14336
1885	0	53	199	266	322	2336	3776	1943	857	515	1861074	53	787	8912	1775	11527	
1886	8	8	14	22	387	2634	3650	1803	758	1438	7	112	16	423	8845	1557	10840
1887	19	0	0	38	186	2665	5638	3281	1721	1228	345	66	19	224	13305	1639	15187
1888	382	148	105	23	18	1791	4380	1809	1023	126	391	2	530	146	9003	519	10197
1889	0	12	0	203	66	1677	3477	3268	1547	939	0	0	12	269	9969	939	11189
1890	0	0	33	114	3	1983	4164	1758	2678	66	660	314	0	150	10583	1040	11773
1891	248	181	304	139	57	386	3973	1865	5700	333	0	0	429	500	11924	333	13186
1892	0	52	0	18	48	1682	3301	2997	3556	1155	33	6	52	66	11536	1194	12848
1893	563	204	1807	22	469	1539	2010	3244	1879	914	529	0	767	2298	8672	1443	13180
1894	45	119	41	44	21	2054	3787	1939	2635	709	295	4	164	106	10415	1008	11693
1895	6	207	92	285	75	2219	2694	2406	1323	412	32	0	213	452	8642	444	9751
1896	0	0	8	4	67	2178	4078	3911	354	6	335	63	0	79	10521	403	11004
1897	138	20	137	190	59	642	2873	3293	2116	411	2	0	158	386	8924	413	9880
1898	0	645	2	85	35	2174	4249	1555	1506	36	6	30	645	122	9484	72	10322
1899	0	86	14	330	184	1188	560	1489	593	3	0	0	86	528	3830	3	4447
1900	22	67	27	133	30	841	3417	3824	3256	0	0	3	89	190	11338	3	11620
1901	340	265	277	209	85	1192	2690	4086	1438	418	0	0	605	571	9406	418	11000
1902	14	0	0	31	40	485	2930	1960	1366	330	180	269	14	71	6741	779	7605
1903	21	28	2	28	448	1332	4547	3275	1752	923	0	1	48	478	10906	924	12357
1904	10	44	149	0	97	1616	1684	1342	1916	716	0	1	54	245	6558	717	7575
1905	52	106	145	175	53	861	2114	2191	3521	38	5	0	158	373	8687	43	9260
1906	124	58	224	0	105	3179	3628	3248	971	19	153	115	182	329	11026	287	11824
1907	30	599	10	425	18	1914	3215	2808	638	2	105	17	629	453	8575	124	9781
1908	17	148	118	55	16	2328	3739	3642	2130	12	0	63	165	189	11839	75	12268
1909	15	162	77	295	242	1881	4122	1700	1542	37	0	947	177	614	9245	983	11020
1910	0	0	0	0	115	2835	2302	3276	3184	649	641	0	0	115	11597	1290	13002
1911	191	0	57	0	48	2146	1570	2981	1274	383	419	0	191	105	7971	802	9069
1912	0	599	0	79	25	707	3767	3631	1122	54	157	6	599	104	9227	217	10147
1913	0	447	62	31	173	2460	3625	2569	1729	132	8	281	447	266	10383	421	11517
1914	0	112	145	412	290	2229	2439	2046	2744	73	28	146	112	847	9458	247	10664
1915	315	29	696	275	61	2120	2771	2073	2178	894	58	147	344	1032	9142	1099	11617
1916	0	121	7	21	223	2450	3517	3265	2533	1352	381	0	121	250	11765	1732	13870
1917	0	804	124	73	469	2292	2838	1745	3469	1109	0	0	804	666	10344	1109	12923
1918	25	27	23	1	1036	2634	1633	1833	465	23	266	112	52	1060	6565	401	8077
1919	467	438	167	45	246	3240	2464	2090	1239	716	212	6	905	458	9033	934	11329
1920	270	1	53	118	32	1173	2512	1144	944	2	0	0	271	203	5773	2	6249
1921	95	0	0	29	2	2557	2950	2300	1724	13	0	0	95	31	9531	13	9669
1922	392	23	0	46	28	1874	3616	1387	3156	43	715	4	415	74	10033	762	11284
1923	6	92	402	55	5	308	3941	2040	2699	51	0	8	98	462	8988	59	9607
1924	242	3	70	119	16	477	2926	1684	2013	1663	322	96	245	205	7100	2081	9630
1925	0	0	75	0	350	1470	2396	3141	551	362	643	123	0	425	7558	1128	9111
1926	628	75	195	248	373	439	3773	4233	908	369	11	31	703	816	9353	411	11282
1927	0	162	118	72	11	3578	3702	1807	1215	806	610	53	162	201	10302	1469	12134

1928	3	488	93	9	57	1706	2336	1692	2132	1018	0	208	491	159	7866	1226	9742
1929	23	644	9	238	2	1811	2558	1258	2043	227	0	303	667	249	7670	530	9116
1930	0	57	1	352	34	1832	2742	1747	2582	350	201	48	57	387	8903	599	9946
1931	26	15	133	66	24	1227	3662	3257	2519	2169	439	18	41	223	10665	2625	13555
1932	0	258	129	31	78	1679	4669	1952	1651	173	94	0	258	238	9951	267	10714
1933	79	525	127	162	714	2419	3246	4029	3401	747	83	129	604	1003	13095	959	15661
1934	27	0	2	152	0	1781	2891	3518	2366	79	403	0	27	154	10556	482	11219
1935	153	37	0	409	11	1686	4902	1609	2015	188	0	25	190	420	10212	213	11035
1936	58	537	191	69	440	4121	2518	3341	2079	944	955	68	595	700	12059	1967	15321
1937	0	279	538	1146	16	1634	4623	1492	1983	1221	0	77	279	1700	9732	1298	13008
1938	14	91	24	81	288	3291	3743	3055	1616	1261	0	0	105	393	11705	1261	13463
1939	17	0	357	142	0	960	2198	3954	564	295	68	0	17	499	7676	363	8555
1940	0	133	1	113	102	2889	5969	2811	542	1059	239	125	133	216	12211	1423	13983
1941	52	109	153	51	6	1181	3747	1734	1127	70	0	0	160	210	7789	70	8230
1942	9	971	0	105	2	1723	4135	3338	1859	26	0	213	980	107	11055	239	12381
1943	616	194	2	37	335	1350	2327	1098	2678	746	0	0	810	374	7453	746	9382
1944	62	517	669	21	27	1001	4375	3612	2193	581	290	0	579	717	11181	871	13348
1945	130	0	0	293	26	1469	4059	2937	2862	387	5	21	130	319	11327	413	12188
1946	0	274	6	128	69	2215	4295	2231	1019	99	946	136	274	203	9760	1181	11418
1947	293	219	196	35	86	1149	3723	3315	1699	264	0	151	511	317	9886	415	11130
1948	486	119	98	25	9	1327	3757	2371	2115	199	1247	0	605	132	9570	1445	11752
1949	20	24	2	65	258	1757	4240	2042	3561	1622	0	1	44	325	11600	1623	13592
1950	0	194	94	8	55	919	3192	1388	1333	98	1	151	194	157	6832	250	7432
1951	54	2	519	255	81	1015	2676	3197	1419	889	7	0	56	855	8307	896	10114
1952	0	80	37	125	35	1101	1996	2245	1398	335	0	3	80	197	6740	338	7355
1953	38	40	0	164	4	1272	2860	3901	1723	434	0	0	78	168	9756	434	10436
1954	0	4	73	82	38	1314	4047	2455	2841	67	0	2	4	193	10657	69	10922
1955	186	0	33	123	59	2533	2590	3414	2124	1434	1	0	186	215	10661	1435	12497
1956	14	7	34	15	662	2391	3182	1485	2567	365	571	128	21	711	9625	1064	11421
1957	90	49	703	515	147	1553	2145	3903	1413	155	0	0	139	1365	9014	155	10673
1958	30	7	175	73	39	1220	2820	4529	2202	589	245	0	37	287	10771	834	11929
1959	102	185	4	178	58	1818	3841	2980	4784	694	17	0	287	240	13423	711	14661
1960	423	0	497	134	109	2061	3198	1890	1160	630	3	34	423	740	8309	667	10139
1961	17	45	54	125	455	1253	3634	3870	3000	1387	0	36	62	634	11757	1423	13876
1962	36	47	284	362	204	626	3224	2413	2901	90	433	761	82	850	9164	1284	11381
1963	2	155	178	171	130	1989	2723	3608	865	849	0	0	157	479	9185	849	10670
1964	0	30	53	42	8	1767	2686	3886	1971	349	37	0	30	103	10310	386	10829
1965	281	71	46	260	24	1474	2525	1686	1701	9	0	7	352	330	7386	15	8084
1966	150	0	182	317	439	648	4645	2140	2117	11	453	389	150	938	9550	853	11491
1967	15	0	628	98	12	1484	3678	1755	787	81	0	1085	15	737	7703	1166	9623
1968	96	309	539	236	18	976	2817	2099	2312	81	28	62	405	793	8204	171	9573
1969	7	0	6	47	106	1141	3724	1602	2790	36	215	0	7	159	9257	251	9674
1970	106	12	158	148	156	3489	2522	4487	2391	66	0	0	118	462	12889	66	13535
1971	58	85	224	70	430	2064	999	2471	1412	988	0	0	143	724	6946	988	8801
1972	0	6	1	45	50	1357	1539	2316	563	111	288	27	6	96	5774	426	6303
1973	0	85	0	54	8	911	3958	3901	1823	1598	0	4	85	62	10593	1602	12342
1974	0	96	26	3	129	940	2227	2784	628	1880	85	0	96	158	6578	1965	8798
1975	58	287	146	0	79	2470	2793	3097	2837	803	5	0	345	225	11197	808	12575
1976	62	0	110	96	68	847	3997	2293	1712	4	595	0	62	274	8849	599	9784
1977	0	24	54	86	239	2064	2522	3903	1121	296	579	84	24	379	9609	959	10972
1978	217	363	329	232	4	2039	3801	3543	462	203	222	359	580	565	9845	784	11774
1979	412	703	39	0	328	2511	2223	3625	1309	37	277	1651	115	367	9668	479	11628
1980	121	38	10	33	2	2421	2714	3894	782	0	2	231	159	45	9811	233	10248
1981	197	24	255	54	253	1869	2911	3453	3127	285	14	153	221	562	11360	452	12595
1982	673	159	56	99	200	999	2801	1679	1778	456	81	0	832	355	7257	537	8980
1983	12	55	18	7	74	1287	3386	2821	2881	592	1	160	67	99	10375	753	11293
1984	302	293	0	116	29	931	2633	2130	432	771	4	0	595	145	6126	775	7641
1985	264	5	0	168	46	2334	2514	1727	709	1232	0	9	269	214	7284	1241	9008
1986	112	549	97	120	112	1830	3202	4394	597	173	160	434	661	329	10023	767	11780
1987	169	106	157	11	147	1163	1570	3157	407	700	645	57	275	315	6297	1402	8289
1988	0	177	68	183	73	1643	4166	3095	2730	1247	153	20	177	323	11634	1420	13555
1989	0	0	455	0	64	1889	1755	2941	1482	63	0	344	0	519	8067	407	8993
1990	21	166	79	20	1074	3165	3332	4888	1210	1409	5	489	187	1173	12595	1902	15858
1991	106	39	19	106	25	1608	3002	2625	268	27	192	0	145	150	7503	219	8017

1992	0	8	20	94	98	1596	1848	5023	1138	479	107	0	8	212	9605	586	10411
1993	0	98	288	41	125	1339	3442	1837	1784	864	11	137	98	453	8402	1012	9966
1994	185	164	0	150	73	2146	5161	2962	1919	1019	96	0	349	223	12187	1115	13875
1995	577	61	619	142	122	1567	3613	1453	2245	861	0	0	638	882	8878	861	11259
1996	16	49	69	201	5	592	2213	2586	1691	804	28	0	65	275	7081	832	8254
1997	212	0	24	207	85	1161	2307	2431	1451	754	5241094	212	316	7350	2372	10250	
1998	161	150	197	99	137	1362	2721	2695	2478	596	746	0	311	433	9256	1342	11342
1999	1	278	6	0	450	2259	2418	2502	2372	1050	0	0	279	456	9551	1050	11336
2000	0	254	0	68	679	2847	3974	2212	429	70	0	0	254	747	9462	70	10533
2001	124	0	213	151	160	3371	1586	4024	568	1262	107	0	124	524	9549	1369	11566
2002	46	82	44	28	190	3651	1005	3474	1115	390	25	0	127	262	9245	415	10050
2003	0	87	197	96	5	1477	4095	2967	1294	507	3	80	87	298	9833	590	10808
2004	265	14	75	94	351	1140	2305	2272	803	332	152	0	279	520	6520	484	7803
2005	948	100	138	79	77	1732	3692	2624	2003	746	0	341048	294	10051	780	12173	
2006	0	6	842	453	439	1579	3866	3729	1883	442	77	0	6	1734	11057	519	13316
2007	9	22	55	104	51	2137	3081	2494	2457	37	202	0	31	210	10169	239	10648
2008	16	23	330	47	70	1309	2717	2900	2071	209	30	5	39	447	8997	244	9727
2009	5	0	150	16	136	797	1993	1347	623	401	462	30	5	302	4760	893	5960
2010	114	70	86	4	6	1491	3547	3380	2482	496	468	35	184	96	10900	998	12179
2011	0	67	14	358	63	1608	2209	2998	1859	181	0	0	67	435	8674	181	9357
2012	37	2	0	14	10	1009	3794	2942	2161	317	69	0	39	24	9906	386	10355
2013	101	207	47	97	3	3522	4937	2714	1186	1606	4	0	308	147	12359	1610	14424
2014	8	295	452	33	43	755	3127	1846	2306	149	69	19	303	528	8034	236	9102
2015	265	94	745	452	174	2650	1402	2516	1884	60	0	2	359	1370	8452	62	10244
2016	7	52	226	51	169	1722	5012	1409	2562	646	0	0	58	446	10705	646	11856

 Values are up to 1 decimal

MEAN	106	130	143	123	151	1755	3162	2667	1857	520	158	95	237	419	9443	773	10873
P-Ann	9	12	13	11	13	161	290	245	170	47	14	8	21	38	868	71	1000
SD	167	180	226	147	196	761	953	939	912	485	236	214	248	352	1828	548	2067
CV	15701379	1571	1193	1295	433	301	352	491	934	149622541046	841	193	708	190			

Table 28: CHATTISGARH SUBDIVISION, AREA 146138 SQ.KM 5.07 PER, 6 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	9	96	11	18	414	3910	4298	1296	2321	0	13	14	105	443	11825	26	12400
1872	19	124	78	277	0	3461	4744	3698	1930	462	0	168	143	355	13833	630	14961
1873	17	13	261	1	238	774	4076	2628	2204	15	1	439	30	500	9682	455	10667
1874	117	129	151	14	133	4199	4564	5299	2156	545	0	4	245	298	16217	549	17311
1875	52	68	0	9	177	3614	5172	1854	1999	474	0	0	120	186	12639	474	13419
1876	0	0	138	0	290	1417	4667	2588	2957	117	0	0	0	428	11629	117	12173
1877	685	238	245	1059	1043	3053	2533	3572	957	743	25	90	923	2347	10115	858	14243
1878	112	178	32	719	571	730	2659	3700	1826	340	345	89	290	1322	8915	774	11301
1879	0	62	0	0	476	2580	2732	4827	2207	855	18	0	62	476	12346	873	13757
1880	0	87	0	0	20	2953	5001	1951	2610	911	167	9	87	20	12515	1087	13708
1881	0	35	555	48	154	2369	4589	3969	1605	255	157	0	35	757	12532	412	13736
1882	31	23	6	199	253	4096	4271	2626	1360	445	606	0	53	458	12353	1051	13916
1883	98	0	202	0	147	2374	3270	1599	2702	354	257	0	98	349	9945	611	11002
1884	25	269	13	5	35	3694	6970	4058	4092	495	0	291	294	53	18814	786	19946
1885	83	289	130	352	736	5189	4365	3248	788	686	175	412	372	1218	13590	1273	16453
1886	65	3	297	10	405	1640	3273	1762	1354	1615	216	94	68	712	8029	1925	10734
1887	225	0	2	204	19	2216	5094	4073	2171	1323	7	63	225	225	13554	1393	15397
1888	255	96	37	6	10	1493	4458	4398	1531	95	417	0	351	53	11879	512	12796
1889	13	65	32	173	131	2144	3537	5363	1947	939	62	0	78	336	12990	1001	14406
1890	0	3	155	144	35	2144	3947	3616	2620	104	464	66	3	334	12327	634	13298
1891	140	90	593	188	520	560	4564	3277	4350	366	7	0	230	1301	12751	373	14654
1892	24	134	7	7	19	2165	6818	2603	2112	737	13	0	158	33	13697	750	14638
1893	343	454	493	10	384	2639	3420	4394	3510	912	397	0	797	887	13963	1309	16955
1894	26	87	8	9	46	3379	5314	3506	2868	1963	462	133	112	63	15067	2558	17801
1895	48	104	158	314	67	4811	3072	4282	951	355	0	7	152	539	13116	362	14169
1896	0	1	6	57	24	3547	5391	6098	787	0	402	40	1	87	15822	442	16352
1897	172	232	182	555	226	1522	3472	5396	1665	1161	0	0	404	962	12055	1161	14582
1898	0	460	1	2	67	2141	4755	4451	1830	304	0	2	460	70	13177	306	14012
1899	11	54	3	470	248	1873	2020	3704	647	0	0	0	65	721	8244	0	9030
1900	277	123	23	100	233	1323	3162	3718	4312	810	0	89	400	356	12515	899	14170
1901	329	886	278	98	180	833	3695	4952	1948	270	9	0	1215	556	11428	279	13478
1902	12	71	0	176	98	440	4234	3473	2111	76	140	31	83	274	10257	247	10862
1903	31	51	4	35	401	1269	4282	4308	1876	1394	182	10	82	440	11735	1585	13843
1904	1	23	195	122	613	3973	2669	4321	1144	1217	5	0	23	930	12107	1222	14282
1905	426	235	276	336	255	745	3938	2600	4000	173	0	0	661	867	11283	173	12984
1906	107	748	467	0	100	1858	4864	3090	2181	439	53	252	855	567	11993	744	14159
1907	29	302	284	439	31	2343	2283	4535	1791	0	58	99	331	754	10952	157	12194
1908	91	585	46	11	173	1661	4174	5249	1209	188	0	7	676	230	12293	195	13394
1909	77	34	52	1065	57	2050	5065	2051	1283	136	0	316	111	1174	10449	452	12186
1910	38	4	30	147	180	2319	3702	4755	3375	764	357	0	42	357	14151	1121	15671
1911	18	0	189	0	111	3636	2054	5641	2699	1393	253	36	18	300	14030	1682	16030
1912	24	595	0	184	56	568	3696	4440	2151	134	108	0	619	240	10855	242	11956
1913	47	717	196	80	358	2207	3406	2610	1978	250	65	166	763	634	10201	481	12080
1914	0	58	171	435	675	1517	4321	3285	2244	21	0	42	58	1281	11367	62	12768
1915	269	419	273	279	277	975	3379	4240	2163	1116	327	0	688	828	10757	1443	13717
1916	0	198	3	36	187	3017	2612	3093	1893	1533	335	0	198	226	10615	1868	12907
1917	16	760	272	81	337	3295	2996	4137	2595	1249	68	0	776	690	13023	1317	15806
1918	152	22	29	79	935	4240	2489	4173	1575	6	71	114	174	1043	12477	190	13884
1919	884	580	440	143	334	4161	3760	4578	1377	1243	251	0	1464	917	13875	1494	17751
1920	0	35	220	218	304	673	5213	3185	1251	35	0	0	35	742	10322	35	11134
1921	439	8	0	146	0	3316	2994	3241	2062	242	0	0	447	146	11612	242	12447
1922	291	186	0	86	15	1503	4555	2705	2615	246	436	2	477	101	11378	683	12639
1923	58	263	184	52	68	1005	3097	4794	2510	718	62	0	321	303	11406	780	12811
1924	330	51	58	232	180	800	2806	3053	2837	822	1110	2	381	470	9496	1934	12280
1925	0	0	23	172	894	3153	5724	5533	1710	583	164	0	0	1089	16120	747	17956
1926	536	91	839	588	412	360	3105	5137	2673	694	0	2	627	1839	11275	696	14437
1927	63	351	173	38	122	1896	4814	4374	1541	867	257	0	413	333	12625	1124	14495

1928	33	94	144	109	127	2056	3932	2539	2135	905	0	34	127	380	10662	939	12108
1929	128	328	0	55	81	2801	5982	4495	2261	880	0	356	456	136	15539	1236	17367
1930	0	40	75	571	50	2479	4669	2578	1725	316	1051	60	40	696	11451	1427	13613
1931	104	432	127	72	276	843	2937	4359	2030	1951	501	0	536	475	10169	2452	13632
1932	0	168	68	79	37	1035	4709	3359	3032	484	497	0	168	184	12135	981	13467
1933	223	677	109	190	981	2782	3714	3873	2930	247	148	12	900	1280	13298	407	15885
1934	19	0	1	239	0	2603	3836	4105	3449	894	157	9	19	240	13993	1060	15312
1935	64	206	26	370	8	1415	5274	2878	2448	28	0	35	270	403	12015	63	12752
1936	281	522	186	49	577	4694	4697	3863	2501	604	168	71	803	812	15754	842	18213
1937	0	514	257	720	158	2101	5210	4613	2627	605	0	0	514	1135	14550	605	16805
1938	98	274	78	55	425	3047	3669	3436	2923	1667	106	0	372	558	13075	1773	15777
1939	41	251	640	270	19	1727	4166	5460	2501	871	18	0	292	929	13854	889	15964
1940	0	239	249	333	396	2600	5405	4523	633	692	67	249	239	977	13161	1007	15386
1941	192	180	181	35	352	2488	2328	2100	1563	616	69	0	372	568	8479	685	10104
1942	182	416	55	248	81	1586	4954	4757	2969	135	1	8	598	384	14266	144	15392
1943	1092	33	54	193	438	1990	4182	3526	4179	409	10	0	1125	685	13877	419	16106
1944	270	619	1000	248	111	1159	5194	4875	2201	1395	20	0	889	1359	13429	1415	17092
1945	262	104	0	923	30	2168	5058	3894	4247	812	41	0	366	953	15367	852	17539
1946	0	127	25	306	181	3067	3931	5075	1891	302	309	13	127	511	13964	624	15227
1947	269	269	139	55	37	1504	5412	5668	3201	622	6	187	538	231	15784	815	17369
1948	311	48	61	190	170	2244	3650	4162	2925	324	680	0	359	421	12981	1004	14765
1949	6	61	17	82	629	1672	3213	4430	2843	1563	0	4	67	728	12158	1567	14520
1950	2	477	523	26	78	1801	3970	3580	1584	91	311	0	479	627	10935	402	12442
1951	43	9	824	532	400	1221	3590	4512	1834	588	5	0	52	1756	11157	593	13558
1952	6	179	289	183	209	1028	4132	4936	2439	170	0	17	185	681	12535	187	13587
1953	211	61	0	265	64	1065	3623	4222	2546	1071	3	0	272	329	11456	1074	13131
1954	20	4	76	199	165	1019	3087	3302	3814	127	0	80	24	440	11222	207	11892
1955	64	10	39	175	292	2758	3117	3503	3032	1837	0	0	74	506	12410	1837	14827
1956	8	185	45	34	889	2921	4766	4127	2056	772	96	26	193	968	13870	893	15924
1957	110	156	528	134	225	1089	4208	4134	937	249	0	0	266	887	10367	249	11770
1958	74	415	280	208	280	1001	4561	3043	3245	1439	300	0	489	768	11850	1739	14846
1959	266	56	0	41	114	1892	3810	4898	3583	871	0	1	322	155	14183	872	15532
1960	197	3	449	135	7	1545	4128	4411	1310	1324	2	0	200	591	11394	1325	13511
1961	49	497	28	111	121	3407	6023	4279	5057	1087	45	114	546	260	18766	1246	20817
1962	39	66	98	187	271	1371	3490	2182	1903	296	0	330	105	556	8946	626	10233
1963	3	58	104	313	265	1937	3463	3689	2933	522	0	1	61	682	12022	523	13287
1964	0	191	11	167	61	2974	3401	4525	1746	1097	56	0	191	239	12646	1153	14228
1965	128	59	322	188	128	1420	3081	1914	2598	260	0	0	187	638	9013	260	10098
1966	247	0	21	86	238	2554	2642	2405	1117	123	132	149	247	345	8718	404	9714
1967	16	0	1011	226	116	1792	3535	4690	1509	69	0	521	16	1353	11526	590	13485
1968	281	160	455	249	27	1450	3405	2535	2359	674	0	91	441	731	9749	765	11686
1969	61	33	2	259	357	823	4298	3022	1921	134	187	0	94	618	10064	321	11097
1970	199	136	434	23	141	2886	3923	4274	2271	143	0	0	335	598	13354	143	14430
1971	203	127	222	373	654	4031	3522	4136	1246	978	0	0	330	1249	12935	978	15492
1972	1	110	11	111	54	1282	3213	3646	2525	492	375	31	111	176	10666	897	11851
1973	49	269	29	3	70	1087	4606	3996	2467	1877	11	4	318	102	12156	1892	14467
1974	0	120	47	1	69	939	2145	3355	894	568	74	0	120	117	7333	642	8212
1975	66	77	194	49	46	1850	4705	3532	2213	1742	4	0	143	289	12300	1745	14478
1976	0	53	14	215	322	1284	3798	4213	1287	5	286	3	53	551	10582	294	11480
1977	7	56	45	473	537	3829	4074	3935	2099	241	266	30	62	1055	13937	537	15592
1978	50	130	176	162	146	2066	3002	4585	1208	149	53	208	180	484	10861	410	11935
1979	262	240	40	71	53	1699	2541	2335	1013	191	273	27	502	164	7588	491	8744
1980	41	28	66	287	104	3405	3649	3629	3260	176	0	189	69	456	13943	365	14834
1981	172	9	71	19	191	869	2924	3247	2530	90	0	15	181	281	9570	105	10137
1982	269	221	306	120	344	1300	2301	4257	1189	559	18	0	490	770	9047	577	10884
1983	0	189	8	102	360	1492	2874	4105	3104	645	0	89	189	470	11575	734	12968
1984	416	125	0	552	107	2676	3232	3923	704	387	0	0	541	659	10535	387	12122
1985	417	130	0	170	141	1089	3990	3608	2825	883	27	0	547	311	11512	910	13280
1986	260	560	83	345	105	4172	3540	2893	1117	611	363	143	820	533	11722	1117	14192
1987	69	67	166	62	283	797	4606	2276	1716	871	204	36	136	511	9395	1111	11152
1988	4	273	109	54	50	1941	2077	2678	1915	266	0	0	277	213	8611	266	9367
1989	2	0	46	0	12	2342	3508	2918	1407	113	20	154	2	58	10175	287	10522
1990	0	104	39	65	943	1856	3206	3496	3514	773	16	8	104	1047	12072	797	14020
1991	166	183	185	106	11	1432	3939	3393	1167	439	64	167	349	302	9931	670	11252

1992	0	5	6	44	88	1289	4310	4960	1501	26	79	0	5	138	12060	105	12307
1993	100	144	196	44	199	1862	3552	2365	2757	420	3	0	244	439	10536	423	11642
1994	65	37	3	52	149	3915	6871	3675	2432	413	22	0	102	204	16893	435	17634
1995	431	70	229	38	356	1321	4825	3437	1267	807	73	59	501	622	10850	939	12912
1996	185	111	53	36	27	1931	3055	4668	1816	203	10	0	296	115	11470	213	12095
1997	74	1	34	667	118	1580	3416	3441	2115	332	462	602	75	819	10552	1396	12841
1998	541	110	299	144	186	1316	2614	2458	2287	586	435	0	651	629	8675	1021	10976
1999	0	12	0	0	403	2143	2377	4243	2135	796	18	0	12	403	10898	814	12127
2000	51	215	12	4	178	2350	2999	2622	1253	87	0	0	266	194	9224	87	9771
2001	7	17	141	151	150	3702	5306	2965	763	783	17	0	24	442	12736	800	14002
2002	259	40	721	41	108	2185	1708	3440	1605	235	1	5	299	870	8938	241	10347
2003	44	250	126	33	0	1375	4104	4855	3669	1436	121	189	294	159	14003	1746	16202
2004	335	87	29	222	133	2828	3250	3011	1527	573	20	0	422	384	10616	593	12015
2005	756	251	33	79	206	2340	3675	2812	2685	893	0	221	1007	318	11512	915	13752
2006	0	0	391	304	485	818	4141	4315	2234	106	256	0	0	1180	11508	362	13050
2007	0	209	114	36	157	2986	2591	3474	2156	280	84	0	209	307	11207	364	12087
2008	155	51	171	144	54	2576	2221	3329	2618	91	32	0	206	369	10743	123	11441
2009	31	0	45	38	134	516	3584	2671	577	473	583	72	31	217	7348	1128	8724
2010	90	27	8	45	175	1313	3804	2311	3010	657	263	390	117	228	10438	1310	12093
2011	0	205	26	485	142	1976	3182	3608	4441	281	0	2	205	652	13207	283	14347
2012	578	71	1	147	37	1825	4590	4373	2014	245	339	71	649	185	12802	655	14291
2013	9	239	57	453	68	2387	4786	3077	1138	1631	1	0	248	578	11388	1632	13846
2014	24	484	230	221	336	1207	4398	3310	2615	740	39	5	508	787	11530	784	13609
2015	182	15	246	502	179	3224	2597	2908	2239	178	8	13	197	927	10967	198	12291
2016	72	36	245	44	237	1902	3745	3593	3045	779	0	0	107	526	12285	779	13697

 Values are up to 1 decimal

MEAN	131	170	156	182	225	2124	3874	3711	2201	599	126	54	301	565	11912	780	13559
P-Ann	9	12	11	13	16	156	285	273	162	44	9	4	22	41	878	57	1000
SD	180	187	198	202	220	1041	1008	952	882	482	193	108	275	391	2055	524	2260
CV	13731101	1272	1109	974	490	260	256	400	805	15311977	914	692	172	672	166		

Table 29: COASTAL ANDHR PRADESH SUBDIVISION, AREA 93045 SQ.KM 3.23 PER, 8 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306
 stations and 2013-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	171	145	470	407	451	453	1341	1016	1344	427	1696	70	316	1327	4154	2193	7991
1872	0	2	0	12	348	1027	1432	1602	1914	3170	1320	672	2	360	5975	5162	11498
1873	0	53	3	77	264	533	1059	1474	991	3923	841	344	53	344	4056	5108	9562
1874	14	7	12	0	831	1312	1514	711	2183	3546	676	187	21	842	5720	4409	10992
1875	196	46	89	86	349	369	920	1366	2072	2297	188	271	242	524	4727	2756	8249
1876	0	0	14	0	331	687	838	1740	818	1161	231	0	0	345	4083	1392	5819
1877	171	248	617	43	1817	309	815	773	2004	1970	240	231	419	2477	3901	2441	9237
1878	0	0	30	137	675	523	2676	2107	1746	3428	10072	268	0	842	7051	6703	14597
1879	34	0	35	0	1905	1063	677	1566	915	1713	2525	29	34	1940	4221	4267	10462
1880	25	47	0	65	364	720	945	1036	807	1755	3297	376	72	429	3508	5428	9437
1881	21	0	112	90	286	1455	467	1552	1822	479	1779	139	21	488	5296	2396	8202
1882	82	0	0	12	386	466	1226	874	2148	1464	3965	689	82	398	4714	6118	11312
1883	47	0	33	102	120	891	785	1581	716	3653	1605	206	47	255	3973	5463	9739
1884	102	81	18	45	210	569	1160	1499	1796	2262	1244	436	183	273	5024	3942	9422
1885	21	33	236	0	389	986	1198	578	1741	1374	1781	1080	53	625	4503	4235	9417
1886	5	0	150	14	758	1289	1676	2749	1196	4372	1157	682	5	922	6910	6211	14047
1887	0	0	19	5	370	1380	1073	1529	986	2813	2020	188	0	394	4968	5021	10383
1888	52	0	14	86	827	451	1180	754	699	935	2223	94	52	927	3084	3251	7315
1889	0	0	18	59	154	1341	1269	1181	2397	2911	593	321	0	230	6188	3825	10244
1890	0	0	7	81	197	1267	1055	872	1143	1297	1495	172	0	285	4337	2964	7586
1891	24	160	102	24	375	443	971	1108	1188	625	131	167	184	501	3710	923	5318
1892	0	30	0	6	33	1055	1178	2666	2177	4604	238	200	30	39	7076	5042	12187
1893	39	195	364	268	241	1203	1781	934	2067	2068	4228	36	234	873	5985	6331	13424
1894	62	117	0	373	116	945	849	1214	1649	4101	1096	8	179	489	4657	5205	10530
1895	1	21	1	168	490	809	1444	1685	2071	2670	301	114	21	659	6009	3085	9775
1896	10	0	4	80	149	795	1237	1321	1377	127	2016	114	10	233	4730	2257	7230
1897	154	127	343	25	479	440	907	1300	2301	1505	593	42	281	847	4948	2140	8216
1898	0	321	0	46	191	1085	1432	860	1509	2123	2471	7	321	237	4886	4601	10045
1899	17	2	0	737	328	434	552	1165	1272	1397	60	0	19	1065	3423	1457	5964
1900	6	0	10	477	349	537	1411	644	1816	1334	510	33	6	836	4408	1877	7127
1901	190	945	5	74	333	610	983	1023	1173	1454	2173	2171	135	412	3789	3844	9180
1902	5	0	0	105	169	537	1128	1711	1900	3057	1279	859	5	274	5276	5195	10750
1903	107	26	0	2	778	1263	1929	1913	1766	1706	3629	283	133	780	6871	5618	13402
1904	317	0	9	4	1142	592	849	1097	964	2153	20	282	317	1155	3502	2455	7429
1905	3	217	515	178	596	728	477	1583	1377	1506	183	2	220	1289	4165	1691	7365
1906	359	212	126	0	23	1964	1139	1964	897	1104	311	1553	571	149	5963	2968	9652
1907	14	38	199	521	139	1533	1135	820	587	642	994	898	52	859	4075	2534	7520
1908	751	7	0	8	359	310	858	1323	2450	1619	311	9	757	367	4941	1939	8005
1909	376	17	0	824	352	692	1358	1690	1721	132	4	743	393	1176	5461	879	7909
1910	1	5	0	77	71	1236	1787	1454	1730	3271	867	0	6	148	6206	4138	10498
1911	0	0	5	71	222	794	1361	663	1427	1453	1949	336	0	298	4245	3738	8281
1912	3	9	66	11	148	264	1652	2041	1655	1681	1107	0	12	225	5612	2788	8637
1913	0	96	0	16	311	892	1580	640	1104	2803	144	379	96	327	4216	3325	7965
1914	3	5	26	350	680	948	1405	1215	2376	461	675	49	8	1056	5944	1185	8193
1915	806	153	735	214	248	1217	1313	2203	1403	1595	3695	14	959	1197	6136	5304	13596
1916	0	27	0	55	330	1005	2380	1566	1016	3308	1707	57	27	385	5967	5072	11451
1917	14	106	31	27	982	1934	1077	1827	2146	2927	1886	258	120	1040	6984	5071	13215
1918	441	63	19	36	608	856	663	1053	1432	181	3005	234	503	663	4004	3420	8591
1919	219	66	134	161	543	822	1404	898	1221	1882	2985	709	285	838	4345	5576	11044
1920	155	77	30	83	570	589	567	931	1062	2973	898	0	232	683	3149	3870	7934
1921	351	0	0	343	23	620	1785	1226	2063	2404	431	4	351	366	5694	2839	9250
1922	181	0	0	60	228	640	1207	1025	852	1397	3322	31	181	288	3724	4750	8943
1923	13	373	81	63	193	252	743	568	2281	2753	2147	4	386	337	3844	4904	9471
1924	39	0	0	7	311	446	958	1189	2871	861	3084	3	39	318	5464	3948	9769
1925	27	0	30	317	1140	1041	1575	1814	803	2603	1813	886	27	1487	5233	5301	12049
1926	174	39	706	401	133	410	1779	1300	1562	872	223	0	213	1240	5051	1095	7599
1927	184	46	166	0	167	1383	1338	1605	1922	755	2834	0	230	333	6248	3589	10400

1928	2	249	30	325	301	451	1396	1244	1808	3641	47	55	251	656	4899	3743	9549
1929	57	223	10	65	340	1506	604	1371	1582	1723	834	303	280	415	5063	2860	8618
1930	3	226	69	34	1305	1440	973	907	1358	4273	1731	408	229	1408	4678	6412	12727
1931	2	0	6	49	396	895	1329	870	1862	3282	2465	161	2	451	4956	5908	11317
1932	0	420	0	188	601	489	1509	1128	1115	1389	2263	28	420	788	4241	3680	9130
1933	19	0	18	27	417	778	1628	1255	1119	2748	1006	528	19	462	4780	4282	9543
1934	33	0	2	177	55	777	1854	1437	983	1732	771	56	33	234	5051	2559	7876
1935	76	0	6	110	73	565	1214	790	1290	2126	89	29	76	189	3859	2244	6368
1936	811	048	11	174	969	896	1626	1198	1003	2516	2290	1951	129	1154	4723	5001	12007
1937	0	432	22	829	188	416	1133	1204	899	2164	822	19	432	1039	3651	3004	8128
1938	0	259	27	0	572	1288	1117	1907	3007	1103	1432	27	259	599	7319	2562	10738
1939	52	0	231	262	46	636	1009	882	1426	4762	1453	42	52	539	3953	6257	10801
1940	22	25	603	181	1302	1009	1154	1443	1295	2160	2272	193	47	2086	4901	4625	11659
1941	4	127	53	5	282	1880	520	654	1670	2320	1621	397	131	340	4724	4338	9533
1942	6	45	1	208	45	905	911	1444	730	1493	1036	498	51	254	3990	3026	7321
1943	122	75	1	462	983	815	1122	670	1403	3612	640	161	197	1446	4010	4413	10066
1944	36	101	1437	142	239	945	1444	1143	1470	4080	1290	4	137	1817	5002	5374	12331
1945	20	0	0	307	251	332	1639	1299	1755	1754	776	57	20	558	5025	2587	8189
1946	0	14	8	260	477	803	1577	1229	678	1282	3671	778	14	745	4287	5731	10777
1947	127	71	0	41	64	551	1688	1641	2126	1604	4391	182	198	105	6006	3225	9534
1948	71	173	7	91	422	396	1294	904	1515	1401	2537	140	244	520	4109	4078	8951
1949	10	5	0	148	1300	943	1905	1929	2659	2823	519	2	15	1448	7436	3344	12242
1950	0	133	207	28	356	618	1584	705	1697	1969	1174	0	133	591	4604	3143	8471
1951	48	0	45	348	410	1062	2252	1302	1131	852	775	5	48	803	5746	1632	8230
1952	0	56	94	101	1341	640	961	866	772	2444	21061	56	1536	3239	3506	8338	
1953	177	0	0	18	254	1019	1047	1408	1479	3199	122	0	177	272	4953	3321	8723
1954	9	1	6	0	150	933	1671	1309	2309	2872	4	410	10	156	6222	3286	9674
1955	8	0	40	45	1685	642	1063	1828	1667	2406	1106	277	8	1770	5200	3789	10767
1956	87	3	0	293	612	1368	2413	1516	1974	3593	1325	407	90	905	7271	5325	13590
1957	16	9	106	37	208	1497	1218	2148	1450	1315	968	0	25	351	6313	2283	8972
1958	5	19	0	246	101	504	2148	1488	1439	3419	2090	111	24	347	5579	5620	11570
1959	56	429	0	443	4	1219	2109	1222	1174	2216	226	59	485	447	5724	2501	9157
1960	7	0	69	0	94	905	1449	709	2648	936	1645	248	7	163	5711	2829	8709
1961	104	269	0	4	126	1761	1324	2007	1549	2388	1169	14	373	130	6641	3571	10715
1962	8	195	0	189	562	658	1794	1584	2622	4659	637	278	203	751	6658	5573	13186
1963	7	0	3	621	194	972	1361	1641	940	3627	90	331	7	817	4914	4048	9787
1964	6	0	0	25	208	875	1515	1560	3229	727	1359	71	6	233	7179	2157	9575
1965	14	31	27	300	228	652	1326	1597	1684	644	495	329	45	555	5259	1468	7327
1966	305	0	0	0	476	692	2316	1379	1201	848	3530	157	305	476	5588	4535	10903
1967	121	0	776	157	69	1012	1743	795	1374	485	4281	069	121	1002	4924	1982	8028
1968	64	20	12	319	98	631	1077	285	1211	1547	1536	193	84	428	3204	3275	6993
1969	1	0	24	0	2232	644	1647	758	873	3682	21391	181	1	2256	3922	7001	13181
1970	35	42	161	47	943	1458	1055	1931	953	1916	154	0	77	1151	5397	2070	8695
1971	65	240	215	1098	539	697	745	1333	1735	2146	215	34	305	1852	4510	2395	9062
1972	1	156	0	184	99	848	881	584	902	3675	1220	495	157	283	3215	5390	9045
1973	0	1	27	6	261	683	897	1417	1129	2452	806	80	1	294	4126	3338	7758
1974	0	43	75	78	106	882	884	1113	2206	2443	510	15	43	259	5085	2968	8354
1975	2	2	0	0	306	1585	1464	1265	1770	3174	997	31	4	306	6084	4202	10596
1976	4	6	6	91	171	378	2185	2078	787	1799	4361	41	10	268	5428	6201	11907
1977	35	0	5	336	556	894	1007	1690	774	1752	2393	56	35	897	4365	4201	9498
1978	193	293	18	213	85	1651	1872	2332	1948	1154	1232	266	486	316	7803	2652	11257
1979	25	208	1	148	1228	793	683	632	1860	616	3375	241	233	1377	3968	4232	9810
1980	17	0	1	23	197	1854	1547	1663	1031	1758	1981	65	17	221	6094	3804	10137
1981	231	0	141	135	298	752	1926	1257	2056	2114	540	160	231	574	5991	2814	9610
1982	30	0	0	246	189	675	1328	1045	1204	2422	1118	0	30	435	4252	3540	8257
1983	7	79	10	10	243	1234	1873	2167	2304	2407	536	215	86	263	7578	3158	11084
1984	88	520	7	61	253	644	1484	562	1124	857	1328	130	608	321	3814	2315	7058
1985	529	0	86	43	149	982	1631	1330	921	2564	944	882	529	278	4864	4390	10061
1986	700	391	4	171	596	828	824	2322	930	2367	1582	511	091	771	4904	4000	10766
1987	191	0	392	180	249	476	812	1399	650	2876	3204	559	191	821	3336	6639	10988
1988	0	27	65	195	376	438	2338	2114	2268	669	366	637	27	636	7158	1672	9493
1989	1	0	338	1	237	820	3155	1583	1726	340	697	283	1	576	7284	1320	9181
1990	36	512	771	293	3652	934	798	1879	1408	2812	1830	90	548	4716	5019	4732	15015
1991	181	27	8	21	156	2309	857	1184	2434	2082	2906	138	208	185	6783	5126	12303

1992	188	37	0	7	306	462	1452	1906	1648	1747	2901	56	225	313	5468	4704	10710
1993	13	6	12	199	523	518	1059	1360	1221	2571	1333	655	19	734	4158	4559	9470
1994	40	190	0	136	298	299	1655	1163	575	3532	2690	322	230	434	3692	6544	10900
1995	495	4	23	7	3213	788	1769	2000	1440	3363	438	36	499	3243	5997	3836	13576
1996	17	23	15	184	179	2409	1486	1796	1624	3450	911	671	40	378	7315	5032	12765
1997	364	54	115	563	96	372	1294	872	3223	1285	15111	1951	418	774	5761	4747	11700
1998	121	244	10	485	145	828	1492	1563	2615	2871	1542	50	365	640	6498	4463	11966
1999	2	2	0	11	598	829	1165	1161	971	2001	622	33	4	609	4126	2656	7395
2000	21204	0	81	518	1738	1363	3096	824	973	463	3281	206	599	7021	1764	10590	
2001	75	0	4	613	377	732	762	1456	1669	2719	1212	370	75	994	4619	4301	9989
2002	527	0	32	219	468	789	650	1360	489	2088	662	22	527	719	3288	2772	7306
2003	72	15	341	9	90	832	2026	1108	1483	2905	148	903	87	440	5448	3955	9932
2004	122	18	6	78	981	1060	2157	798	1583	1789	598	1	140	1065	5598	2388	9190
2005	24	57	8	76	371	452	1279	1158	3405	4054	786	190	81	455	6294	5030	11860
2006	1	0	493	557	481	1116	977	1591	1764	3034	1413	43	1	1531	5448	4490	11470
2007	0	79	20	31	451	2500	1211	1480	2059	2600	314	5	79	501	7250	2919	10750
2008	101090	857	9	223	727	1400	2109	1218	1114	1803	3311	100	1089	5453	2950	10593	
2009	0	0	4	6	506	592	841	1580	1781	266	1967	372	0	516	4794	2605	7915
2010	41	0	6	81	2301	1244	2322	2128	2270	2991	25191	144	41	2388	7964	6654	17047
2011	4	273	3	421	454	848	1763	1392	1083	987	566	132	277	878	5086	1684	7926
2012	343	0	8	53	420	727	1719	1695	2137	1995	2568	252	343	481	6278	4815	11917
2013	12	345	40	259	156	850	1309	1077	1326	4197	849	41	357	455	4562	5087	10461
2014	7	10	57	52	609	294	1169	1221	1235	1756	632	173	17	718	3919	2561	7215
2015	18	4	46	237	192	1724	781	1486	1611	674	2453	234	22	475	5602	3361	9460
2016	16	8	32	30	868	1592	1090	1053	2156	652	167	364	24	930	5891	1183	8028

 Values are up to 1 decimal

MEAN	86	102	95	156	481	901	1332	1362	1557	2129	1351	282	189	733	5153	3764	9841
P-Ann	8	10	9	15	48	91	135	138	158	216	137	28	19	74	523	382	1000
SD	148	200	207	191	541	443	474	482	592	1088	1030	376	249	622	1146	1441	1989
CV	1708	1946	2166	1224	1124	492	355	354	380	511	762	1331	1313	847	222	382	202

Table 30: TELANGANA SUBDIVISION, AREA 114726 SQ.KM 3.98 PER, 9 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2012 based on 306
 stations and 2013-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	0	0	34	47	67	752	1325	536	2134	303	39	0	0	148	4747	342	5237
1872	0	0	0	87	6	697	1674	1204	1863	1346	71	372	0	93	5438	1789	7319
1873	0	0	49	0	205	1106	848	1498	1804	326	19	11	0	254	5256	356	5866
1874	1	0	21	62	145	692	1814	1229	3336	280	104	47	1	228	7071	431	7731
1875	6	0	77	228	242	1565	1793	1122	625	587	0	47	6	547	5105	634	6292
1876	0	0	93	60	58	739	1559	1493	766	77	46	0	0	211	4557	122	4891
1877	97	200	488	490	398	727	582	907	1496	1449	136	448	297	1376	3712	2033	7418
1878	0	0	68	143	316	1105	2978	3831	1717	1399	172	0	0	527	9631	1570	11728
1879	0	108	2	42	657	1171	1725	2878	738	1160	380	0	108	701	6512	1540	8861
1880	0	4	12	99	210	1556	1816	860	2016	474	453	115	4	321	6248	1042	7615
1881	0	0	194	188	148	1038	1033	1440	1828	525	397	0	0	529	5339	922	6791
1882	22	0	0	130	199	1068	2058	1663	2737	98	611	0	22	329	7526	709	8586
1883	0	0	427	40	114	2048	2193	2896	2388	658	88	0	0	581	9525	746	10852
1884	269	0	97	149	259	783	3363	1683	2137	547	5	327	269	505	7966	879	9619
1885	0	3	90	81	470	1015	2055	1143	1787	1098	738	543	3	641	6000	2379	9023
1886	0	0	203	19	234	2060	3028	3081	775	1898	124	77	0	456	8944	2099	11499
1887	0	0	1	71	95	1559	1974	1755	1370	519	247	7	0	167	6658	773	7598
1888	87	84	17	151	569	1045	2276	1233	654	54	769	48	170	737	5208	871	6987
1889	0	0	68	113	35	1067	2451	2717	2281	1263	46	27	0	216	8516	1336	10068
1890	0	0	12	171	141	1904	2209	1641	2303	225	414	120	0	324	8057	759	9140
1891	3	127	161	129	58	383	1610	2268	1550	265	0	0	130	348	5811	265	6554
1892	0	0	0	147	133	1538	1827	4015	3200	1754	142	10	0	280	10580	1905	12766
1893	142	110	1240	51	195	1822	2643	3672	3225	1252	494	0	252	1486	11362	1746	14846
1894	146	10	57	142	60	1381	1781	2511	2968	683	471	0	156	259	8641	1154	10210
1895	0	80	51	223	103	786	2369	2024	2304	748	48	0	80	377	7483	796	8736
1896	0	0	63	82	4	1051	2200	1815	511	102	629	0	0	149	5577	731	6457
1897	0	100	0	186	125	844	1943	2194	2170	501	0	0	100	311	7151	501	8062
1898	0	199	27	336	61	1024	3526	1431	1837	489	550	0	199	423	7818	1039	9480
1899	0	0	21	350	319	1059	603	1354	1161	20	0	0	0	690	4177	20	4887
1900	13	2	64	260	67	1140	3091	1342	2456	357	62	0	15	391	8029	419	8854
1901	69	792	117	452	222	1011	2114	1832	722	700	95	0	861	791	5679	795	8126
1902	2	0	18	303	156	881	1228	1924	1630	503	412	125	2	476	5663	1040	7181
1903	99	23	0	125	359	956	3681	2953	1980	2014	352	95	122	484	9570	2461	12637
1904	1	0	73	24	383	1473	1563	678	1767	907	0	0	1	480	5481	907	6869
1905	0	53	134	410	280	1054	850	2558	1739	411	0	0	53	824	6201	411	7489
1906	268	6	161	22	61	2504	2133	2117	1243	344	107	419	274	244	7997	870	9385
1907	8	29	87	663	43	2015	1371	2343	1052	4	67	94	37	793	6781	165	7776
1908	147	58	51	89	83	866	2010	1990	5107	39	0	2	205	223	9973	41	10442
1909	32	23	3	414	65	1192	2407	1403	1306	26	0	1	55	482	6308	26	6871
1910	0	0	1	81	214	2325	1515	1442	2279	1280	369	0	0	296	7561	1649	9506
1911	0	0	43	129	108	1281	1529	1567	1303	187	144	77	0	280	5680	408	6368
1912	0	310	0	235	151	497	2691	1930	1133	234	330	12	310	386	6251	576	7523
1913	0	104	0	142	313	869	2996	1124	981	587	58	41	104	455	5970	686	7215
1914	0	0	4	157	387	2036	2669	2049	2166	225	40	31	0	548	8920	296	9764
1915	179	93	635	173	296	1894	2019	2006	1913	1433	244	2	272	1104	7832	1679	10887
1916	52	183	0	108	227	1821	2624	1657	2478	1737	952	0	235	335	8580	2689	11838
1917	0	448	151	215	519	1843	2580	1813	2856	1147	197	0	448	885	9092	1344	11768
1918	113	24	174	190	781	853	1288	940	1303	109	251	284	137	1145	4384	644	6310
1919	162	163	306	226	314	1614	1407	968	1231	892	843	122	325	846	5219	1857	8248
1920	64	0	20	164	236	773	1433	974	997	204	22	0	64	420	4177	226	4887
1921	109	0	2	142	64	1846	2232	1156	1944	624	360	35	109	208	7177	1019	8514
1922	559	0	0	39	305	1122	1728	1384	1582	403	257	0	559	344	5816	660	7378
1923	6	220	111	145	122	254	2485	1002	2243	483	2	0	226	378	5983	485	7073
1924	97	0	14	182	162	657	1527	1824	2657	560	875	0	97	358	6665	1435	8555
1925	0	0	0	306	800	1200	2447	2082	1283	1802	101	56	0	1106	7012	1959	10077
1926	353	59	139	318	446	387	2130	1925	1050	201	4	0	412	902	5492	205	7012
1927	31	123	125	55	141	1992	2488	1407	1389	557	666	0	154	321	7276	1223	8974

1928	0	239	282	25	159	1758	1875	1587	2609	951	0	70	239	466	7829	1021	9555
1929	16	455	0	208	84	1439	1035	1316	2313	572	0	91	471	292	6103	663	7528
1930	0	57	81	179	35	1799	1276	1274	1819	958	497	0	57	295	6168	1455	7975
1931	0	46	51	51	446	1920	2648	1357	2504	1065	371	6	46	548	8429	1442	10464
1932	0	401	0	137	219	1111	2485	1748	1969	305	509	0	401	356	7313	814	8884
1933	113	199	99	186	467	2398	2111	1687	1932	1400	303	431	312	752	8128	2134	11326
1934	0	0	48	195	33	1241	2931	1964	1439	167	375	0	0	276	7575	542	8393
1935	186	41	6	624	47	1192	2665	1508	1949	596	0	10	227	677	7314	606	8824
1936	9	963	221	77	810	1687	2051	1915	1391	1371	644	84	972	1108	7044	2099	11223
1937	0	530	310	1356	52	629	2652	1236	1436	923	8	13	530	1718	5953	944	9144
1938	0	460	166	89	402	2504	2769	2757	2449	635	0	1	460	657	10479	636	12232
1939	0	0	181	43	6	793	1482	1586	1239	1454	134	0	0	230	5100	1587	6918
1940	0	3	32	390	1132	1026	2611	2209	952	671	136	110	3	1554	6798	917	9272
1941	207	67	49	88	178	1049	776	1457	1770	578	14	6	274	315	5052	598	6238
1942	0	124	1	336	124	1341	2204	2681	715	234	37	5	124	461	6941	276	7802
1943	122	0	26	301	340	1453	1639	1083	2569	758	145	0	122	667	6744	903	8436
1944	0	181	1094	62	115	1053	2343	1511	2255	1351	161	0	181	1271	7162	1512	10126
1945	23	0	0	417	66	1500	2731	2141	1534	1104	237	5	23	483	7906	1346	9758
1946	0	197	48	291	203	1626	2526	1788	757	310	887	36	197	542	6697	1233	8669
1947	16	184	16	16	69	914	2740	2744	2642	646	187	290	200	101	9040	1123	10464
1948	1	44	56	331	263	536	2218	1491	2242	591	852	0	45	650	6487	1442	8625
1949	2	1	0	202	640	1218	2888	1459	2101	1173	17	0	3	842	7666	1190	9701
1950	0	311	249	1	205	689	2335	1458	2811	307	173	0	311	455	7293	480	8539
1951	0	0	405	216	448	1143	2807	1312	1209	898	8	5	0	1069	6471	911	8451
1952	0	129	0	186	619	576	1852	1372	1367	1193	0	62	129	805	5167	1255	7356
1953	37	0	0	352	3	2041	1883	2758	2378	1712	0	0	37	355	9060	1712	11164
1954	0	0	53	85	197	1104	2850	2131	2844	443	0	24	0	335	8929	467	9731
1955	0	0	48	122	443	1754	2207	3245	2434	1420	101	0	0	613	9640	1521	11774
1956	4	39	0	50	619	1942	3906	1411	1697	1113	607	18	43	669	8956	1738	11406
1957	0	56	191	387	376	1580	1989	2746	922	696	0	0	56	954	7237	696	8943
1958	80	58	164	393	168	868	3194	2124	1018	617	319	0	138	725	7203	936	9003
1959	0	5	0	173	407	1921	3394	3303	1472	651	45	6	5	580	10090	702	11377
1960	1	0	361	14	237	1479	1896	919	2291	653	83	47	1	612	6585	783	7981
1961	77	34	29	61	280	1632	3293	2023	1233	1990	151	0	111	370	8181	2141	10802
1962	0	287	45	573	195	989	2151	2476	2848	688	450	481	287	813	8464	1619	11182
1963	0	0	31	442	129	1796	1926	3408	960	1310	0	0	0	602	8090	1310	10002
1964	6	0	12	56	37	1077	1838	2003	3147	587	83	0	6	105	8065	670	8846
1965	34	0	36	106	84	923	3408	1407	2270	26	0	0	34	226	8008	26	8294
1966	334	23	15	61	16	577	2760	2024	2081	421	284	258	357	92	7441	963	8854
1967	24	0	615	101	28	1503	3622	1637	1656	94	0	264	24	744	8418	358	9544
1968	184	140	196	141	111	857	1917	383	2590	796	114	1	324	448	5746	911	7429
1969	38	0	11	94	1140	1358	2581	1610	2308	727	655	280	38	1245	7857	1662	10802
1970	73	22	91	258	454	2252	1436	3580	1759	370	0	0	95	803	9027	370	10295
1971	33	163	71	216	568	1381	923	1763	1105	1290	0	0	195	855	5172	1290	7513
1972	0	92	0	205	130	1292	1371	910	809	606	647	15	92	335	4382	1268	6077
1973	0	0	29	44	85	1284	2165	3116	773	2408	179	4	0	158	7338	2591	10087
1974	0	1	7	169	560	952	1268	1695	1518	2234	206	0	1	736	5433	2440	8610
1975	210	123	182	84	381	1082	2568	1950	3213	1701	121	0	333	647	8813	1822	11615
1976	0	0	13	126	173	886	4239	2250	1032	129	343	0	0	312	8407	471	9191
1977	0	0	53	171	564	987	2095	1887	645	925	726	37	0	788	5614	1688	8090
1978	237	167	34	139	279	2362	3220	3481	1639	669	425	2	404	451	10702	1096	12654
1979	116	187	1	214	890	1040	1122	1085	2571	293	578	20	303	1105	5818	891	8116
1980	20	0	111	150	211	2125	1570	2662	1322	133	27	70	20	472	7679	230	8401
1981	103	0	392	177	280	1745	2417	2346	2648	990	83	14	103	849	9156	1087	11195
1982	14	0	48	205	323	1214	3050	1563	1450	1188	243	0	14	576	7277	1431	9298
1983	0	19	46	45	399	1375	2460	4055	2941	1803	50	69	19	490	10831	1922	13262
1984	23	15	86	284	48	837	2402	908	1608	967	26	4	38	418	5755	997	7208
1985	26	0	131	104	138	1528	2020	1214	784	911	43	65	26	373	5546	1019	6964
1986	285	346	13	204	149	1153	1877	3227	847	475	260	164	631	366	7104	899	9000
1987	116	3	248	91	225	881	2087	2204	617	1495	1590	13	119	564	5788	3098	9570
1988	0	48	36	269	79	1098	4951	2759	3052	299	15	197	48	384	11860	511	12802
1989	0	0	413	10	44	2200	4115	2248	1978	291	22	182	0	467	10541	495	11502
1990	31	70	191	45	1691	1903	1457	3269	1419	1617	93	0	101	1927	8048	1710	11786
1991	132	9	49	218	484	1860	2307	1800	1557	272	424	2	141	751	7524	698	9114

1992	12	1	0	55	434	1328	1415	2907	959	619	445	0	13	489	6609	1064	8175
1993	0	2	107	139	365	827	2758	1565	1393	1027	0	159	2	611	6543	1186	8342
1994	45	168	0	202	132	774	2779	2349	336	1707	393	0	213	334	6237	2100	8885
1995	612	0	141	91	543	1234	2278	1669	1037	3931	17	0	612	775	6218	3948	11553
1996	0	15	3	202	50	1044	1527	2243	1091	864	169	0	15	255	5905	1033	7208
1997	284	0	103	537	139	506	1623	1637	1732	660	398	279	284	779	5498	1337	7898
1998	0	165	45	56	258	1680	2576	2611	2014	989	159	0	165	359	8881	1148	10553
1999	0	132	0	7	488	726	1905	1630	1634	555	15	0	132	495	5895	570	7091
2000	5	384	11	130	519	2299	2042	3743	628	279	2	0	389	660	8712	281	10042
2001	113	36	150	294	80	1695	911	2043	1426	1400	168	0	149	524	6075	1568	8316
2002	208	5	25	44	331	1137	768	2140	489	931	37	0	213	400	4534	967	6115
2003	0	48	179	181	0	978	2301	2155	988	1059	0	164	48	360	6422	1223	8053
2004	327	74	51	375	264	555	2014	1038	1305	963	61	0	401	690	4912	1024	7026
2005	279	133	177	98	297	948	3305	1300	2348	1894	7	110	412	572	7901	2010	10896
2006	0	0	480	311	454	996	1361	2397	3077	396	587	0	0	1245	7831	983	10059
2007	0	18	1	85	141	1643	1504	2089	2827	370	136	0	18	227	8063	506	8814
2008	0	316	1023	129	119	1044	1927	3298	1481	383	148	8	316	1271	7750	539	9875
2009	0	0	16	40	149	793	928	1717	1463	641	288	25	0	205	4901	953	6059
2010	187	24	5	99	241	871	3242	2620	2142	856	443	149	211	345	8875	1447	10879
2011	0	136	17	390	233	727	2516	2600	805	110	14	0	136	640	6648	124	7548
2012	76	0	0	189	71	826	1976	2077	1557	845	587	0	76	260	6436	1432	8204
2013	32	472	1	281	108	1769	3576	1851	1842	1955	189	11	504	390	9038	2155	12087
2014	0	29	568	112	613	528	1323	1512	1414	363	131	16	29	1293	4777	510	6608
2015	103	0	357	632	196	2060	733	1320	1720	185	25	15	103	1185	5833	225	7346
2016	10	2	137	48	479	1850	2183	1165	3752	591	5	4	12	664	8950	600	10226

 Values are up to 1 decimal

MEAN	57	85	116	186	270	1275	2168	1934	1769	800	226	54	142	572	7147	1082	8944
P-Ann	6	9	13	20	30	142	242	216	197	89	25	6	15	64	799	120	1000
SD	103	148	195	167	246	505	775	751	774	596	264	107	176	340	1644	668	1897
CV	1806	1748	1668	901	913	396	357	388	437	745	1167	1969	1239	593	230	617	212

Table 31: RAYALASEEMA SUBDIVISION, AREA 69043 SQ.KM 2.40 PER, 4 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	72	0	203	128	844	290	1258	821	1582	865	764	2	72	1175	3950	1630	6829
1872	0	0	0	164	992	619	789	1082	1929	1236	1315	390	0	1156	4419	2941	8516
1873	0	219	0	95	440	375	448	1084	1569	2053	119	203	219	535	3476	2375	6605
1874	0	13	0	3	1554	1005	1446	476	4401	2922	346	108	13	1557	7328	3376	12274
1875	2	0	28	10	528	1023	1157	1522	1532	826	62	162	2	566	5234	1050	6852
1876	0	0	21	90	51	705	253	655	360	64	55	0	0	162	1973	119	2254
1877	0	0	328	19	754	759	331	586	1776	1719	444	68	0	1101	3452	2231	6784
1878	0	0	41	190	164	670	2160	2549	2526	1848	601	49	0	395	7905	2498	10798
1879	108	59	71	12	1369	856	1422	1021	646	1063	252	0	167	1452	3945	1315	6879
1880	13	57	0	217	504	829	477	1170	1003	1398	1425	146	70	721	3479	2969	7238
1881	0	0	146	71	574	833	207	1996	1400	561	782	33	0	791	4436	1375	6603
1882	124	0	0	253	484	242	333	1092	1926	1079	2112	65	124	737	3593	3256	7710
1883	0	0	175	84	132	895	734	1555	848	2301	516	418	0	391	4032	3235	7658
1884	48	0	0	74	92	333	546	854	863	1627	927	609	48	166	2595	3163	5973
1885	0	0	72	7	440	860	1074	662	931	1270	853	773	0	519	3526	2896	6941
1886	0	0	79	0	600	747	1627	1598	1136	1787	443	127	0	679	5108	2357	8143
1887	0	0	0	71	317	997	317	1611	1873	1169	1073	414	0	388	4798	2656	7842
1888	0	0	0	288	520	317	449	658	2149	1107	1184	88	0	808	3573	2379	6760
1889	0	0	38	246	252	533	1378	1468	2209	1983	265	295	0	536	5588	2543	8667
1890	0	0	47	412	110	1325	847	1245	1731	1133	748	98	0	569	5148	1979	7695
1891	0	54	15	123	206	394	514	505	570	899	233	172	54	344	1983	1304	3685
1892	0	15	0	83	221	1910	1012	2433	1450	1947	66	166	15	304	6805	2179	9302
1893	50	18	305	123	356	1104	1902	741	1137	1583	1422	0	68	783	4884	3005	8741
1894	59	101	0	123	328	393	1107	2142	1033	1472	460	69	160	451	4675	2000	7287
1895	0	11	1	539	487	399	1225	825	1767	1661	106	519	11	1027	4216	2286	7540
1896	234	0	0	67	501	486	587	891	859	80	814	101	234	568	2823	995	4619
1897	21	67	40	83	414	416	868	1507	2856	705	130	84	87	537	5646	919	7191
1898	0	57	73	413	233	452	669	659	2581	508	1518	282	57	718	4361	2308	7445
1899	0	0	4	583	412	105	111	709	1794	778	65	32	0	999	2719	875	4593
1900	10	0	0	192	258	502	1426	242	1922	615	225	136	10	450	4092	976	5528
1901	65	508	0	51	369	525	829	504	1085	515	1053	518	573	420	2943	2086	6022
1902	41	0	0	124	247	675	290	1259	1627	1546	376	184	41	371	3850	2106	6369
1903	163	0	0	17	555	768	1405	1486	2149	1094	2184	581	163	572	5808	3859	10402
1904	48	0	1	67	461	478	746	192	504	1094	6	72	48	529	1920	1172	3669
1905	34	7	111	100	327	782	362	2324	518	1394	166	11	41	538	3985	1571	6136
1906	508	179	16	0	47	1135	1133	1298	1843	910	183	951	687	62	5409	2044	8202
1907	13	0	99	442	40	578	770	288	1235	271	881	160	13	581	2871	1312	4777
1908	65	71	25	25	427	267	677	487	2312	836	44	36	136	477	3743	916	5271
1909	548	0	1	353	997	398	524	3490	1575	365	23	13	548	1350	5987	401	8287
1910	0	3	21	119	339	560	1695	1857	1940	1445	1150	0	3	479	6052	2595	9129
1911	0	0	14	345	583	744	705	457	975	694	550	381	0	942	2880	1625	5448
1912	0	9	0	51	167	336	768	1370	1768	1551	1718	0	9	218	4242	3269	7738
1913	0	0	0	3	421	241	777	344	1205	1582	76	370	0	423	2567	2028	5019
1914	5	0	10	106	347	622	737	1620	2011	435	728	33	5	463	4990	1196	6654
1915	356	18	628	18	521	439	1519	578	1978	593	1897	24	373	1167	4514	2514	8569
1916	0	0	0	32	280	457	2419	1345	1926	2395	933	28	0	312	6147	3355	9815
1917	21	557	10	46	673	982	586	1734	1525	1598	734	96	578	729	4827	2428	8562
1918	304	31	145	27	744	389	419	704	1477	30	1371	83	335	916	2989	1484	5723
1919	168	0	119	98	541	767	1510	227	2593	701	1295	247	168	758	5097	2243	8266
1920	746	0	0	73	263	435	270	722	1554	964	534	0	746	336	2980	1498	5561
1921	347	0	0	360	66	690	1685	617	958	2154	574	23	347	426	3950	2750	7473
1922	528	0	0	75	433	356	463	793	349	898	2173	92	528	508	1961	3163	6160
1923	101	126	85	66	248	638	446	219	1660	657	129	88	227	399	2963	874	4462
1924	27	0	2	139	443	295	832	699	2268	465	1099	1	27	584	4094	1565	6270
1925	0	0	53	170	1146	379	903	1267	1020	1314	680	784	0	1369	3569	2778	7716
1926	375	0	155	313	153	952	638	782	1709	572	146	21	375	621	4080	739	5815
1927	13	6	0	47	243	907	1212	615	2427	564	1667	7	19	290	5161	2238	7708

1928	13	421	3	329	242	877	923	941	1207	1495	222	92	433	574	3948	1809	6765
1929	70	96	0	102	253	574	531	347	1977	893	895	158	166	355	3429	1946	5896
1930	66	97	111	27	1227	1028	868	425	1689	2258	1276	299	163	1365	4010	3833	9371
1931	0	0	25	57	402	934	834	261	1545	868	778	416	0	484	3574	2062	6120
1932	0	250	0	7	267	727	584	1391	995	664	1063	101	250	274	3697	1828	6048
1933	0	30	160	181	818	172	778	2055	644	1122	433	735	30	1159	3649	2290	7128
1934	165	0	0	307	221	904	1220	363	469	910	863	22	165	528	2956	1795	5444
1935	52	0	24	159	87	1032	1000	2723	1108	1383	115	35	52	270	5863	1533	7718
1936	0	301	49	139	465	653	716	390	1237	478	1027	137	301	653	2995	1642	5592
1937	0	161	19	988	255	604	1050	419	1516	1992	892	101	161	1262	3589	2985	7997
1938	0	39	44	24	492	960	631	2733	2271	147	11	119	39	560	6595	277	7471
1939	63	0	335	621	65	572	376	791	1769	1440	1186	10	63	1021	3508	2636	7227
1940	2	8	67	154	1185	896	604	685	1688	1897	1048	32	10	1406	3873	2977	8266
1941	58	20	0	72	278	380	404	589	1919	718	362	577	78	350	3292	1657	5377
1942	0	0	0	119	341	1028	319	990	939	428	202	196	0	460	3276	826	4562
1943	118	118	0	201	1765	324	662	1030	1272	2095	717	20	236	1966	3288	2832	8322
1944	0	32	644	55	152	1551	1398	614	1226	1494	882	133	32	851	4789	2509	8181
1945	0	0	0	228	373	299	2039	1341	1055	686	541	21	0	601	4734	1248	6582
1946	44	75	35	302	451	492	577	950	1330	1383	1934	1236	119	788	3349	4553	8808
1947	192	38	5	189	305	648	1206	2115	2010	628	218	286	230	499	5979	1132	7840
1948	36	0	32	242	328	372	617	962	1008	615	1490	74	36	602	2959	2179	5776
1949	0	0	0	125	811	1092	1096	1477	2612	987	405	0	0	936	6277	1392	8605
1950	0	62	19	0	525	631	760	1058	1391	1041	211	0	62	544	3840	1252	5698
1951	0	0	401	382	971	604	884	429	828	688	229	0	0	1754	2745	917	5416
1952	0	1	0	17	2083	744	525	659	454	934	0	894	1	2100	2382	1828	6311
1953	9	0	0	311	36	592	1574	587	1934	2679	70	0	9	347	4687	2749	7791
1954	54	0	169	33	341	331	1857	942	590	1483	0	229	54	542	3720	1712	6029
1955	55	0	79	87	1157	371	1126	2219	1383	1094	391	160	55	1323	5098	1645	8122
1956	23	2	0	519	905	877	1737	701	1724	2307	982	288	25	1424	5039	3576	10065
1957	0	0	204	191	386	2128	835	937	969	890	495	0	0	781	4869	1385	7035
1958	12	32	17	321	260	579	798	2337	1119	1858	542	126	44	598	4833	2526	8001
1959	0	34	0	279	711	1270	1049	951	1421	677	403	73	34	990	4691	1153	6868
1960	0	0	39	107	267	763	1182	130	3347	512	1490	23	0	413	5422	2025	7860
1961	15	51	14	3	695	1258	1276	1084	629	1425	433	7	66	712	4247	1865	6890
1962	0	28	46	270	1108	633	506	1209	1306	1663	320	824	28	1424	3654	2807	7913
1963	0	0	6	480	337	664	1004	1831	807	870	0	158	0	823	4306	1028	6157
1964	0	0	0	57	47	874	1997	936	2989	675	799	64	0	104	6796	1537	8438
1965	0	8	0	277	160	1010	736	1469	1162	63	309	542	8	437	4377	914	5736
1966	70	0	1	44	427	1204	1097	1448	1439	764	1795	306	70	472	5188	2865	8595
1967	102	0	156	164	392	537	1409	400	1349	1009	138	690	102	712	3695	1837	6346
1968	0	57	215	561	357	516	580	75	1945	1353	547	379	57	1133	3116	2279	6585
1969	0	0	7	14	530	802	1065	1750	326	1727	647	181	0	551	3943	2555	7048
1970	0	0	0	37	726	683	932	2021	2191	1082	210	0	0	762	5827	1292	7882
1971	0	32	125	481	389	493	703	853	665	1764	229	81	32	995	2714	2074	5815
1972	12	0	0	137	777	1005	310	168	1749	1921	489	583	12	913	3232	2993	7151
1973	0	0	0	8	227	395	672	1315	1451	1950	267	114	0	235	3833	2331	6399
1974	0	0	0	28	1116	679	842	903	2541	1438	262	0	0	1144	4965	1700	7809
1975	9	0	164	22	217	634	1424	969	1644	3442	715	82	9	403	4671	4239	9322
1976	7	0	0	166	369	701	730	2087	569	928	953	8	7	535	4086	1889	6518
1977	0	6	16	347	1170	1002	1507	1395	468	1486	1381	6	6	1533	4372	2873	8783
1978	0	176	5	225	419	663	1511	990	2501	797	1016	572	176	649	5665	2384	8875
1979	0	199	3	29	1239	526	572	479	1723	476	1840	38	199	1271	3300	2354	7123
1980	0	0	14	109	345	593	686	1141	690	375	813	115	0	468	3110	1303	4881
1981	10	0	252	297	301	714	903	1035	2061	1378	353	69	10	850	4713	1800	7373
1982	0	0	18	197	237	1146	964	384	1463	1009	1247	80	0	452	3957	2336	6745
1983	0	0	170	84	546	846	1062	2026	2963	764	208	123	0	800	6896	1095	8792
1984	1	314	553	152	59	315	1434	180	975	756	343	463	315	764	2904	1562	5545
1985	103	0	19	88	153	562	1397	931	473	1628	712	155	103	260	3363	2495	6221
1986	294	221	0	58	127	760	690	514	1503	681	528	57	515	185	3467	1265	5433
1987	37	0	155	138	457	541	209	1482	1024	1182	1509	557	37	750	3256	3248	7290
1988	0	12	75	734	950	309	1705	2588	1668	285	150	188	12	1759	6270	623	8664
1989	0	0	406	12	249	374	3506	232	1998	263	590	113	0	667	6110	966	7743
1990	11	13	154	48	982	509	526	1114	1653	1366	1038	28	24	1184	3802	2432	7441
1991	45	4	2	83	304	1644	722	1026	1274	1920	1866	12	49	389	4666	3798	8902

1992	52	0	0	155	456	448	802	1028	753	1106	1200	17	52	611	3031	2323	6017
1993	0	0	94	318	629	492	628	1762	1217	1874	999	946	0	1041	4099	3819	8959
1994	54	80	0	250	275	258	791	998	549	1885	505	47	134	525	2596	2437	5692
1995	131	0	128	19	928	588	2086	2152	1160	887	301	0	131	1075	5986	1188	8380
1996	0	0	0	536	403	2254	994	2123	2326	2339	186	766	0	938	7696	3291	11927
1997	94	0	213	481	324	741	430	708	2557	840	633	764	94	1017	4436	2237	7785
1998	0	0	40	601	304	599	1359	1548	2282	1478	880	218	0	945	5788	2576	9309
1999	0	79	0	65	621	820	645	1287	1235	736	400	119	79	686	3987	1255	6007
2000	0	131	0	228	946	1459	815	2265	928	1005	316	247	131	1174	5467	1568	8340
2001	7	0	17	529	367	258	688	839	2444	3053	192	143	7	913	4229	3388	8537
2002	21	11	0	115	835	503	571	635	604	1582	228	6	31	950	2313	1816	5111
2003	0	0	385	41	41	647	1712	1194	1046	1805	88	22	0	466	4599	1915	6981
2004	72	9	97	413	1790	282	1254	120	1571	895	257	0	80	2300	3227	1152	6760
2005	36	32	25	484	1114	835	1770	1257	1283	2865	575	424	68	1623	5145	3864	10700
2006	0	0	359	189	1168	925	470	586	1659	803	855	72	0	1716	3640	1730	7086
2007	0	0	0	82	588	1984	1093	2657	1801	1414	197	492	0	670	7535	2103	10308
2008	22	131	711	10	317	642	988	1182	1612	728	1394	20	153	1038	4424	2142	7756
2009	0	0	85	190	838	823	252	1345	1561	400	961	238	0	1113	3981	1599	6693
2010	227	0	0	204	351	1031	1930	1777	1023	751	1299	299	227	555	5761	2349	8892
2011	0	83	0	343	704	470	1484	1830	1137	769	1184	327	83	1047	4921	2280	8331
2012	12	0	24	443	449	444	1239	1494	845	1600	945	282	12	916	4022	2827	7777
2013	7	169	31	173	332	703	736	1128	2259	1057	120	10	176	536	4826	1187	6725
2014	0	2	217	135	405	539	864	1368	1008	959	266	77	2	757	3779	1302	5840
2015	27	0	113	592	399	670	363	1160	1639	837	2760	262	27	1104	3832	3859	8822
2016	79	0	8	3	709	1301	1318	432	1030	125	56	452	79	720	4081	633	5513

 Values are up to 1 decimal

MEAN	53	40	73	183	509	708	956	1117	1492	1177	695	204	93	767	4275	2077	7213
P-Ann	7	5	10	25	70	98	132	154	206	163	96	28	12	106	592	287	1000
SD	115	89	130	178	373	367	516	658	668	645	560	245	146	416	1225	869	1575
CV	21632243	1770	969	733	518	540	589	447	548	80512021562	543	286	418	218			

Table 32: TAMIL NADU and PONDICHERY SUBDIVISION, AREA 130068 SQ.KM 4.52 PER, 15 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	567	182	340	359	411	429	536	509	1314	1417	2585	285	749	1110	2788	4287	8934
1872	15	84	108	537	1077	575	777	1018	1176	1425	3010	873	99	1722	3546	5308	10675
1873	3	867	68	785	486	136	433	931	838	2206	812	285	870	1339	2338	3303	7850
1874	0	190	27	360	1301	637	672	709	1501	1672	1558	426	190	1688	3519	3656	9053
1875	37	42	137	540	621	520	350	1154	815	2146	800	324	79	1297	2839	3270	7486
1876	6	0	179	305	725	324	586	843	673	435	771	430	6	1209	2426	1636	5276
1877	8	0	149	135	838	624	140	336	1704	2765	19091978	8	1122	2804	6652	10586	
1878	206	0	4	726	869	616	636	1356	1129	936	932	340	206	1599	3736	2208	7750
1879	179	107	768	169	606	509	1368	962	844	1675	858	500	286	1543	3683	3033	8545
1880	112	96	28	440	547	250	389	1251	595	2009	3393	966	208	1015	2485	6367	10076
1881	151	1	87	20	716	259	319	1401	1312	866	1623	881	152	822	3291	3370	7636
1882	381	36	73	325	901	421	482	1186	698	1454	2661	524	416	1299	2787	4639	9142
1883	16	363	158	107	922	524	535	970	588	2470	1848	899	378	1187	2616	5217	9400
1884	120	0	68	98	507	418	184	952	547	2900	31432544	120	673	2101	8587	11481	
1885	41	0	162	61	501	688	311	427	1124	1834	19811366	41	724	2550	5181	8496	
1886	147	3	154	120	1792	730	1102	1472	1230	1430	1175	326	150	2066	4534	2931	9681
1887	1	52	272	420	552	779	412	1093	844	2992	21271768	52	1244	3128	6887	11312	
1888	19	0	15	203	1180	561	418	722	915	2355	21081379	19	1398	2615	5841	9875	
1889	64	8	163	629	521	349	1167	1149	1279	1484	583	712	72	1312	3944	2779	8107
1890	100	48	170	471	551	825	783	918	962	2173	1149	235	148	1192	3488	3557	8385
1891	99	531	195	398	332	385	170	533	695	3406	11771151	630	925	1783	5733	9072	
1892	21	164	5	576	428	902	728	1963	643	1288	248	328	185	1008	4236	1864	7293
1893	80	161	620	401	588	780	1221	398	592	1673	3695	259	241	1609	2991	5627	10468
1894	147	225	396	420	433	223	576	1216	1040	1712	1361	501	372	1249	3055	3574	8250
1895	14	0	2	586	449	294	578	1250	1542	3170	10391294	14	1037	3664	5503	10218	
1896	88	0	65	28	493	446	383	544	1293	1315	29781860	88	586	2665	6153	9493	
1897	51	583	56	353	618	586	418	1359	2174	924	833	215	634	1027	4537	1972	8170
1898	132	135	5	552	663	301	392	889	1793	2396	29951387	267	1220	3375	6778	11640	
1899	67	113	20	1785	409	191	257	282	1171	2491	531	339	180	2214	1901	3361	7656
1900	248	11	6	1145	554	347	809	612	1400	1817	1176	854	259	1705	3168	3846	8979
1901	207	543	132	476	620	406	352	671	1865	1214	22471184	750	1228	3294	4645	9917	
1902	721	123	293	167	764	629	571	1211	1148	2913	19201553	844	1224	3559	6386	12013	
1903	240	33	1	165	1264	532	614	1018	2138	1290	19432022	273	1430	4302	5255	11260	
1904	311	0	2	109	951	369	840	301	684	1543	237	519	311	1062	2194	2299	5866
1905	60	55	83	637	654	490	398	1124	570	2575	1169	36	115	1374	2582	3780	7851
1906	533	182	218	44	262	485	602	1894	711	1591	20791592	715	524	3691	5262	10193	
1907	142	10	145	734	441	406	690	459	1159	1530	2240	569	152	1320	2714	4339	8525
1908	121	301	263	255	442	321	414	559	1852	2775	418	153	422	960	3145	3345	7873
1909	1224	119	29	779	1251	332	397	2492	1406	1475	757	1601343	2059	4627	2392	10421	
1910	78	212	6	222	426	535	1632	1712	782	2740	1391	12	290	654	4661	4143	9748
1911	17	6	121	280	530	601	546	347	1367	1259	16701466	23	931	2860	4395	8210	
1912	77	26	25	309	491	510	315	854	1162	2695	2747	290	102	825	2840	5732	9501
1913	34	35	9	225	630	196	482	521	1167	2373	23191427	69	864	2366	6119	9418	
1914	54	5	19	331	335	371	378	939	1227	2910	14761452	59	685	2915	5838	9497	
1915	314	156	327	354	442	623	1092	989	1390	920	2479	555	470	1123	4094	3954	9641
1916	0	44	9	210	580	257	1873	1125	1021	2269	1559	460	44	799	4276	4288	9407
1917	97	174	259	60	662	637	481	1864	1453	1009	1675	398	271	981	4435	3081	8769
1918	703	72	227	46	761	409	359	496	431	487	33121081	775	1034	1695	4880	8384	
1919	145	3	142	257	781	513	874	488	1497	1512	23901283	148	1180	3372	5185	9885	
1920	1500	20	8	550	401	396	305	758	1497	1606	4496	311520	958	2955	6133	11567	
1921	1623	0	7	495	316	556	1208	1362	877	2232	1070	7201623	818	4003	4022	10466	
1922	419	244	34	278	876	518	497	826	641	2594	3199	719	663	1188	2482	6512	10845
1923	1693	11	346	186	265	340	395	423	1421	2822	51416711704	797	2579	5007	10087		
1924	283	5	290	344	549	532	1313	829	1702	1230	1649	483	288	1183	4376	3361	9209
1925	239	17	616	302	750	445	445	1101	694	1654	24301791	256	1668	2685	5875	10484	
1926	711	34	217	208	595	337	527	630	1168	1521	1330	258	745	1020	2662	3109	7536
1927	177	244	261	601	675	831	429	588	977	988	1519	369	421	1537	2825	2876	7659

1928	277	485	86	373	479	270	565	785	522	1867	19411059	762	938	2142	4867	8709	
1929	151	385	203	1048	396	462	361	557	1181	1517	1916	987	536	1647	2561	4420	9164
1930	533	608	140	185	1669	536	275	595	787	4290	2159	6041141	1994	2193	7053	12381	
1931	342	0	4	628	455	362	655	597	996	1178	18603532	342	1087	2610	6570	10609	
1932	16	278	68	552	1074	403	351	1331	731	2149	2408	797	294	1694	2816	5354	10158
1933	16	32	488	446	913	286	463	1460	708	2029	9611020	48	1847	2917	4010	8822	
1934	919	0	79	205	502	615	491	523	268	3221	1180	210	919	786	1897	4611	8213
1935	473	13	76	529	118	566	320	1389	639	1673	1277	838	486	723	2914	3788	7911
1936	22	456	529	236	617	445	657	472	1167	819	2535	576	478	1382	2740	3930	8531
1937	123	87	194	931	405	337	358	1094	1007	1901	2833	265	210	1530	2795	4999	9534
1938	3	477	506	340	316	451	859	1157	1148	928	505	513	480	1162	3615	1946	7203
1939	436	61	169	1367	585	471	210	824	997	2527	2977	95	496	2121	2502	5599	10719
1940	6	7	91	668	1157	857	378	544	1387	1482	3773	842	13	1916	3165	6097	11192
1941	257	23	0	575	658	452	499	608	1501	1728	19581069	280	1233	3060	4755	9328	
1942	2	9	72	769	481	328	264	1078	1415	1312	6781836	11	1322	3085	3826	8244	
1943	1351	177	60	634	2299	330	419	760	631	3067	1221	5611528	2993	2140	4849	11510	
1944	148	207	576	262	432	773	561	1169	1335	1772	28891287	355	1270	3838	5948	11411	
1945	25	25	61	662	374	222	505	894	627	1453	1800	98	50	1097	2248	3350	6746
1946	180	0	426	390	685	356	409	674	1492	1708	33242985	180	1501	2930	8017	12629	
1947	714	184	481	965	366	418	929	928	1320	1979	300	113	898	1812	3595	2392	8697
1948	484	68	140	202	749	321	568	646	754	1424	2251	317	552	1091	2289	3992	7923
1949	110	12	1	640	840	690	1094	1694	725	1277	1015	63	122	1481	4203	2355	8161
1950	14	635	87	91	464	180	376	1334	621	1306	993	461	649	642	2511	2760	6562
1951	117	3	193	1238	657	306	866	884	1011	893	2511	65	120	2088	3067	3469	8744
1952	157	417	52	118	478	244	737	719	331	1033	3351658	574	648	2031	3026	6278	
1953	151	113	48	1138	461	698	914	609	1268	2709	1069	196	264	1647	3489	3974	9374
1954	798	23	670	505	732	293	919	1367	395	2639	2421218	821	1907	2974	4099	9801	
1955	334	38	44	1116	1606	304	684	664	1246	1579	11661856	372	2766	2898	4601	10637	
1956	223	3	8	243	344	865	363	969	1258	2304	2177	535	225	595	3455	5016	9292
1957	10	57	131	136	788	511	580	464	738	2190	2257	807	67	1055	2293	5254	8669
1958	120	87	246	544	1094	238	298	1333	687	1574	1551	248	207	1884	2556	3373	8019
1959	44	365	0	592	564	741	423	558	938	1687	2109	649	409	1156	2660	4444	8670
1960	56	102	79	462	561	336	1507	529	962	1224	3800	239	158	1102	3333	5263	9857
1961	816	133	46	189	810	773	818	1218	1151	1529	1297	557	949	1045	3960	3383	9337
1962	147	165	165	413	1010	612	394	1189	1231	2932	662	614	312	1588	3426	4208	9534
1963	909	31	360	391	323	562	1073	822	1304	1479	23151413	940	1074	3760	5207	10982	
1964	17	3	135	80	577	311	1607	961	834	2134	1843	778	20	792	3713	4755	9280
1965	58	101	40	534	323	232	447	1409	957	1359	14272106	159	897	3045	4892	8993	
1966	184	45	103	319	766	640	575	1679	1503	3004	22211231	229	1188	4397	6456	12270	
1967	385	6	312	215	571	725	831	696	770	2138	16791742	391	1098	3022	5559	10070	
1968	20	49	368	995	304	488	353	542	1126	1238	1416	703	69	1667	2509	3357	7602
1969	19	132	12	286	465	150	385	1248	279	2924	18091186	151	763	2062	5918	8895	
1970	116	109	65	686	825	389	641	825	762	1624	2446	158	225	1576	2617	4228	8645
1971	201	87	387	450	815	271	598	1294	1122	2033	7101894	288	1652	3285	4637	9862	
1972	47	1	0	100	1536	566	447	372	1824	2543	12571933	47	1636	3209	5733	10626	
1973	0	6	21	101	505	443	793	651	1406	2211	7571511	6	627	3293	4479	8405	
1974	12	270	131	327	790	530	614	389	1805	1428	670	236	282	1248	3338	2334	7201
1975	37	21	487	131	665	252	1284	1020	1356	1559	1638	449	58	1283	3912	3646	8899
1976	11	0	208	432	394	521	635	1335	719	1630	2596	493	11	1034	3210	4719	8974
1977	13	190	137	389	946	485	497	1354	987	3705	3581	223	203	1472	3323	7508	12507
1978	18	146	10	425	556	249	696	618	1588	1547	26171954	164	991	3151	6118	10424	
1979	7	384	133	222	394	373	610	536	1771	1594	4037	662	391	749	3290	6293	10723
1980	9	0	36	336	422	232	561	666	524	1342	1988	852	9	793	1982	4182	6968
1981	183	25	210	227	767	365	1049	751	1816	2587	1325	755	208	1204	3981	4667	10060
1982	4	0	73	284	470	443	375	325	709	1145	2435	470	4	827	1852	4050	6733
1983	2	0	11	17	882	533	740	1124	1618	1346	11013249	2	910	4015	5696	10623	
1984	4671898	821	536	227	175	1390	405	1252	1561	1219	7482365	1584	3222	3528	10699		
1985	899	108	95	259	215	585	582	1058	1478	823	211211241007	569	3703	4059	9338		
1986	520	222	227	179	408	301	448	840	964	1346	942	605	742	813	2553	2893	7002
1987	112	4	184	158	390	498	162	679	1211	2154	13371665	115	732	2550	5156	8554	
1988	3	12	302	775	644	399	1058	1228	1527	817	1284	248	15	1721	4212	2349	8297
1989	52	0	304	291	394	355	1235	717	1378	1335	1419	365	52	989	3685	3119	7845
1990	821	42	264	215	782	141	414	784	1085	2033	1430	423	862	1261	2424	3885	8434
1991	335	72	101	304	205	1095	324	772	1063	2163	1958	347	407	610	3254	4468	8739

1992	23	0	2	270	536	431	558	571	1638	1101	2900	618	23	808	3198	4619	8648
1993	0	64	132	57	468	689	511	797	989	2267	3162	1841	64	657	2986	7270	10977
1994	46	198	64	649	669	266	640	746	830	1786	2212	371	244	1382	2482	4369	8477
1995	319	18	143	312	1564	721	698	1270	821	1290	1140	22	337	2019	3510	2452	8318
1996	22	30	27	999	354	1341	449	1164	1510	1683	1108	2414	52	1380	4464	5205	11101
1997	47	0	93	389	476	505	591	602	756	2521	3005	1637	47	958	2454	7163	10622
1998	80	9	1	161	564	213	697	1142	1173	1083	2657	2107	89	726	3225	5847	9887
1999	72	135	6	580	652	355	307	627	550	2456	1844	609	207	1238	1839	4909	8193
2000	321	731	27	456	453	362	564	1327	1877	1292	1480	9041	052	936	4130	3676	9794
2001	67	86	28	949	401	318	692	350	1138	1602	1172	544	153	1378	2498	3318	7347
2002	102	727	19	128	569	621	216	566	462	1842	1301	394	828	716	1864	3536	6947
2003	3	36	193	363	586	346	734	998	620	1534	1569	107	39	1142	2698	3210	7089
2004	39	3	11	307	2164	373	481	290	1877	2455	1729	212	42	2482	3020	4396	9941
2005	15	94	126	1581	572	216	472	805	830	2892	3541	1587	109	2279	2323	8020	12731
2006	135	0	487	287	666	441	304	621	1227	2967	1967	412	135	1440	2593	5346	9514
2007	65	131	14	629	389	374	795	1484	755	2239	7411	1875	196	1032	3408	4855	9491
2008	276	229	1613	426	451	393	746	1390	563	2799	3428	478	505	2490	3091	6704	12792
2009	81	0	289	519	705	445	314	821	1168	668	3484	1143	81	1513	2748	5295	9637
2010	166	0	14	161	857	668	693	1326	934	1868	3821	1504	166	1032	3621	7193	12012
2011	170	201	24	926	468	291	667	1061	1004	2609	2570	684	371	1418	3023	5863	10675
2012	66	14	57	398	489	443	512	848	690	3128	807	349	80	944	2493	4284	7801
2013	88	357	371	201	443	492	349	1183	1243	1169	1463	540	445	1015	3267	3172	7899
2014	139	66	13	32	1339	417	397	946	1006	2223	1430	669	205	1384	2766	4322	8677
2015	116	23	200	1080	1094	615	401	855	929	1362	3963	1526	139	2374	2800	6851	12164
2016	25	8	28	62	997	621	801	577	462	675	352	664	33	1087	2461	1691	5272

 Values are up to 1 decimal

MEAN	221	133	166	429	663	462	611	911	1078	1861	1833	883	355	1259	3063	4578	9256
P-Ann	23	14	18	46	71	49	66	98	116	201	198	95	38	136	330	494	1000
SD	321	224	207	317	353	192	316	388	400	706	939	688	390	467	684	1434	1531
CV	1448	1680	1242	739	531	415	518	426	371	379	512	778	1098	370	223	313	165

Table 33: COASTAL KARNATAKA SUBDIVISION, AREA 18717 SQ.KM 0.65 PER, 2 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	855	203	0	369	1915	8156	10061	3094	2957	1574	662	01058	2284	24267	2236	29845	
1872	0	0	0	75	1328	11014	15215	6973	1863	829	122	313	0	1403	35065	1264	37732
1873	0	59	0	100	1178	9414	5983	3466	2321	1322	0	89	59	1278	21184	1410	23931
1874	0	2	0	406	4036	9258	14454	4707	5637	1888	378	51	2	4442	34056	2317	40817
1875	0	0	194	285	421	8630	9698	5723	2260	407	35	109	0	900	26311	551	27762
1876	0	0	39	308	200	8924	11211	3621	1700	176	11	0	0	547	25456	187	26190
1877	0	0	0	64	201	8019	4400	6985	3629	3635	264	180	0	265	23033	4079	27377
1878	0	0	5	555	1090	11315	8808	13603	8919	2188	1300	50	0	1650	42645	3538	47833
1879	0	0	5	40	6227	7726	7571	8615	2135	2907	676	37	0	6272	26047	3620	35939
1880	0	0	0	143	782	9088	9455	2341	2828	1354	678	251	0	925	23712	2283	26920
1881	0	0	0	2	954	5360	5147	7420	2875	586	2063	0	0	956	20802	2649	24407
1882	148	0	0	65	1850	9320	12565	4660	3030	1194	311	0	148	1915	29575	1505	33143
1883	0	0	2	590	731	9959	12069	5165	3466	1960	813	47	0	1323	30659	2820	34802
1884	0	0	0	56	53	5928	6322	7920	3523	1179	317	185	0	109	23693	1681	25482
1885	0	0	0	0	198	9415	11207	4640	1778	2840	466	79	0	198	27040	3385	30623
1886	0	0	0	0	1842	9502	13101	3543	1665	2363	527	0	0	1842	27811	2890	32543
1887	0	0	2	143	694	13649	8243	4882	3671	3138	833	3	0	839	30445	3973	35258
1888	118	0	0	185	1029	13765	8022	6171	738	718	913	6	118	1214	28695	1637	31665
1889	102	0	0	0	1249	16024	11801	5261	5747	2872	34	354	102	1249	38833	3260	43444
1890	0	0	26	451	1437	9117	11147	4531	1341	766	448	0	0	1914	26136	1214	29264
1891	0	13	28	63	47	6500	8025	3388	2350	1749	299	0	13	138	20263	2047	22461
1892	0	0	0	679	4097	5209	11561	10472	3214	3660	699	0	0	4776	30455	4359	39591
1893	0	0	0	450	2767	7847	7920	4157	3084	2148	752	0	0	3217	23007	2900	29125
1894	0	36	104	384	39	6630	8126	7485	2932	2228	198	0	36	527	25173	2426	28162
1895	0	0	0	45	204	7540	13963	4965	993	1560	265	0	0	249	27461	1825	29535
1896	0	0	0	135	1771	10184	6027	10094	892	753	278	198	0	1906	27197	1229	30332
1897	0	11	0	157	334	11173	13161	5631	4134	2236	0	0	11	491	34099	2236	36837
1898	0	56	0	86	706	10007	10030	4218	5364	2027	872	24	56	792	29619	2923	33390
1899	0	0	0	2060	1191	8600	2206	3714	1496	1048	13	2	0	3251	16016	1063	20330
1900	0	0	0	30	51	12169	13294	5707	3746	302	49	84	0	81	34916	435	35431
1901	9	17	20	577	541	13957	7821	5505	758	710	1177	153	26	1138	28040	2040	31245
1902	0	0	41	23	509	8746	15389	4146	6802	1435	509	548	0	573	35083	2492	38148
1903	0	0	0	0	2338	7291	13808	6605	2687	1346	525	9	0	2338	30390	1880	34609
1904	104	0	0	298	668	13113	10052	3485	2535	1437	0	0	104	966	29185	1437	31692
1905	0	0	0	0	1189	11265	4932	6613	1434	2795	384	0	0	1189	24244	3179	28612
1906	16	0	0	0	367	7243	11233	4788	2289	716	214	278	16	367	25553	1208	27144
1907	32	0	0	931	87	8699	9708	6332	1698	858	511	59	32	1017	26437	1427	28915
1908	0	0	0	329	125	9444	16524	7736	1611	452	3	0	0	454	35315	455	36224
1909	23	0	0	0	3947	10686	11204	2915	3041	221	354	0	23	3947	27846	575	32391
1910	0	0	104	4	98	12818	5257	4965	3371	796	1229	0	0	205	26411	2025	28642
1911	0	0	0	2	582	7481	7130	4933	1237	923	737	191	0	584	20780	1851	23216
1912	0	0	0	13	434	8593	11615	7335	1064	2487	844	0	0	447	28607	3331	32384
1913	0	0	0	90	870	8024	8831	3017	1877	3588	3	102	0	960	21749	3693	26402
1914	0	0	0	10	278	8654	14002	9319	3407	1549	586	469	0	288	35382	2604	38273
1915	0	22	0	138	517	9017	7039	3343	3731	1469	1054	18	22	655	23130	2541	26348
1916	0	0	0	44	923	11059	7585	4342	6774	1672	1710	0	0	967	29760	3382	34109
1917	0	426	5	5	479	12539	8313	6006	4405	3011	468	0	426	489	31262	3479	35657
1918	2	0	0	31	7933	6082	4635	4045	1252	470	1287	96	2	7963	16013	1853	25833
1919	0	0	0	0	1074	5957	11191	5327	2522	2142	1280	223	0	1074	24997	3645	29715
1920	0	0	3	767	95	9716	7218	4551	1485	1233	554	0	0	865	22970	1787	25622
1921	106	0	0	187	313	7207	8491	8164	2793	1373	269	0	106	500	26655	1642	28902
1922	0	0	0	574	1324	8700	12360	4340	2603	782	670	0	0	1897	28003	1452	31353
1923	101	0	82	18	388	6802	14212	8071	3412	522	11	23	101	488	32497	556	33642
1924	0	0	202	180	541	10851	12013	4737	2285	466	254	0	0	923	29885	720	31529
1925	0	0	174	32	1452	12047	9293	6872	485	2110	342	85	0	1658	28697	2537	32892
1926	122	0	0	81	75	8203	7168	6987	2710	1683	88	0	122	156	25068	1771	27117
1927	0	0	0	169	979	7855	11624	4421	3824	944	2011	0	0	1148	27724	2955	31827

1928	0	200	186	400	209	9967	11684	7919	1245	3847	60	21	200	795	30815	3928	35738
1929	0	0	51	894	1840	15861	8164	5027	2932	4102	693	10	0	2785	31984	4805	39574
1930	9	0	0	101	2582	10236	6303	3698	3687	2364	20	3	9	2683	23924	2387	29003
1931	0	0	0	276	1308	8201	12796	9156	2197	1749	603	694	0	1584	32349	3046	36980
1932	0	0	0	44	2631	8312	9102	3066	4066	3641	568	154	0	2675	24546	4363	31584
1933	0	0	0	347	4468	12737	13344	5070	5101	2341	398	858	0	4815	36252	3597	44664
1934	136	0	0	23	223	12747	7612	4980	2034	1010	374	39	136	245	27372	1422	29177
1935	0	0	0	256	114	7584	9878	4046	2686	2938	63	68	0	370	24194	3068	27633
1936	0	91	343	335	1485	12627	9914	4646	1844	2126	1476	122	91	2163	29031	3724	35009
1937	0	0	0	1477	353	8224	15184	2824	1882	1971	51	20	0	1830	28114	2042	31986
1938	0	0	47	390	2624	9417	9634	4239	3969	1421	492	0	0	3061	27259	1913	32233
1939	0	0	0	584	0	10084	8087	5283	1426	1926	609	0	0	584	24880	2535	27999
1940	0	0	0	78	750	7088	11477	13578	1135	2235	1129	72	0	828	33278	3436	37542
1941	79	0	0	91	573	8746	4067	4730	2165	1275	375	247	79	664	19708	1897	22348
1942	0	3	0	448	519	12097	10872	4119	1820	910	280	32	3	967	28907	1222	31099
1943	272	108	0	3	5751	10500	9385	3113	4931	2490	903	0	380	5753	27929	3393	37456
1944	0	0	116	1	1037	9900	11064	4041	514	3312	860	136	0	1154	25519	4308	30981
1945	59	0	0	38	326	12168	13373	5206	3122	691	763	0	59	363	33869	1454	35746
1946	0	0	406	626	814	13802	8872	8914	2077	1890	3022	539	0	1846	33664	5451	40961
1947	0	59	53	1008	220	7926	10013	7979	3479	481	0	188	59	1281	29396	668	31405
1948	142	0	149	152	320	9265	10930	7673	3368	489	1983	0	142	621	31236	2472	34471
1949	0	0	0	6	4626	8771	12549	4580	4935	910	240	0	0	4632	30835	1150	36617
1950	0	0	0	22	1606	10663	14294	3284	5861	830	472	0	0	1628	34102	1302	37032
1951	0	0	0	309	743	11188	12342	3582	2053	2094	378	0	0	1052	29165	2472	32689
1952	0	0	0	314	1259	10463	7374	4985	368	2346	0	121	0	1573	23190	2467	27230
1953	0	0	0	214	63	6695	17186	3855	1853	2538	6	0	0	277	29589	2544	32410
1954	37	0	114	746	696	5896	11558	6947	3402	1930	20	55	37	1556	27803	2005	31400
1955	0	0	3	270	3412	12280	8097	7384	4721	3459	673	0	0	3685	32482	4132	40299
1956	0	0	0	295	6003	10292	9831	3830	1979	2064	1023	0	0	6298	25931	3087	35317
1957	0	0	20	13	1653	8183	9697	6836	775	1166	1547	11	0	1686	25491	2724	29901
1958	4	0	0	63	2427	10684	8711	6684	2894	984	893	23	4	2490	28972	1900	33366
1959	0	0	0	60	2409	10851	14176	5247	3677	547	350	181	0	2469	33951	1078	37498
1960	0	0	73	330	4862	7441	8580	4534	5007	1319	516	0	0	5265	25562	1835	32662
1961	0	0	0	342	6558	12872	16095	7730	7997	3733	181	18	0	6900	44694	3931	55526
1962	6	329	0	36	5050	3731	10207	10253	4342	2649	551065	335	5086	28533	3769	37723	
1963	0	0	217	660	1231	7341	7540	9412	1595	2247	170	165	0	2108	25888	2582	30577
1964	0	0	0	11	824	7667	7634	8135	4082	2282	296	328	0	835	27518	2905	31259
1965	66	0	0	17	490	7833	8104	5495	1562	142	2272197	66	507	22994	2566	26132	
1966	0	0	0	55	1259	7227	10032	2360	2343	1929	2274	461	0	1314	21962	4664	27940
1967	0	0	0	20	519	8409	11895	5553	2961	1177	95	52	0	539	28818	1324	30681
1968	0	0	0	524	7	9651	13815	3161	2070	2409	398	3	0	531	28697	2809	32038
1969	0	0	0	385	500	8083	9168	3174	5768	401	649	13	0	885	26193	1063	28141
1970	0	0	0	60	3452	10108	11629	12700	3956	1314	394	0	0	3512	38393	1707	43613
1971	0	8	4	160	3217	10577	11713	5643	2186	437	21	48	8	3381	30119	506	34014
1972	0	0	0	47	1173	8359	7993	5148	641	1549	290	19	0	1220	22141	1857	25219
1973	0	0	0	278	539	8147	8808	11229	1634	1117	234	97	0	817	29817	1447	32082
1974	0	0	65	136	2766	6191	14426	6159	5242	2685	44	0	0	2967	32018	2729	37713
1975	0	0	44	46	1398	17116	12488	11071	5556	2081	765	0	0	1488	46231	2846	50565
1976	0	0	0	58	696	5949	10805	5417	3100	590	1101	318	0	754	25271	2009	28034
1977	0	0	10	347	967	9363	11860	3482	2856	2792	2877	0	0	1324	27561	5669	34554
1978	0	1	0	0	4713	13918	11173	6153	2858	1012	732	457	1	4713	34102	2201	41017
1979	0	0	0	72	29	9485	9778	4229	2184	1003	1134	0	0	101	25675	2137	27913
1980	0	0	0	3217	237	11523	7669	9394	1553	458	642	79	0	3454	30139	1179	34772
1981	8	0	0	7	461	12278	9333	8634	2468	1267	449	42	8	468	32713	1758	34947
1982	0	0	0	0	1984	9254	10901	12600	1005	775	911	0	0	1984	33760	1686	37430
1983	0	0	0	4	198	5240	11513	12068	7723	1093	378	382	0	201	36544	1853	38599
1984	1	8	107	716	229	11045	7457	4743	1660	2579	36	0	9	1052	24905	2615	28581
1985	6	0	0	146	1269	10049	6266	6757	1238	3063	313	44	6	1415	24310	3419	29151
1986	0	0	24	6	407	9756	5877	7703	1365	333	2178	18	0	437	24701	2529	27667
1987	0	0	0	0	324	11929	7890	7489	946	2769	876	61	0	324	28254	3706	32284
1988	0	0	0	200	531	11939	10059	8818	5139	1227	8	0	0	731	35955	1235	37921
1989	0	0	37	71	669	12005	7799	8193	2924	250	110	6	0	777	30920	366	32064
1990	0	0	0	0	6073	8562	7243	9220	2003	2390	370	0	0	6073	27028	2760	35861
1991	0	0	0	340	896	9616	15035	8257	596	751	57	8	0	1236	33504	816	35556

1992	0	0	0	5	1073	10581	9504	8484	2738	965	1689	0	0	1078	31307	2654	35039
1993	0	0	84	270	442	6420	14672	4335	1953	3569	417	315	0	796	27380	4301	32476
1994	106	0	0	479	461	13334	11305	7956	1661	2843	291	0	106	940	34256	3134	38436
1995	59	0	0	205	1300	9333	12809	6197	2882	2149	182	0	59	1505	31220	2331	35116
1996	0	0	0	0	315	11115	11262	4433	2784	2546	200	235	0	315	29594	2981	32890
1997	56	0	14	11	161	8890	14284	9493	1410	830	720	651	56	186	34077	2201	36520
1998	0	0	0	1	536	12907	8574	4572	6886	3069	629	404	0	537	32939	4102	37577
1999	0	0	0	11	4300	11776	14301	3852	1642	2857	158	0	0	4311	31570	3015	38896
2000	93	0	0	304	3823	10604	10101	5534	1853	1352	8	54	93	4127	28092	1414	33726
2001	57	0	0	611	3113	9694	8996	5395	1628	2402	241	0	57	3724	25713	2643	32137
2002	0	7	0	125	3198	9775	4347	5602	1719	5263	247	0	7	3323	21442	5510	30282
2003	0	0	3	52	153	13320	10812	5343	2621	1162	491	0	0	208	32096	1652	33957
2004	0	0	0	25	4070	7736	6944	6586	1728	1024	669	0	0	4095	22994	1693	28782
2005	0	0	0	1118	413	9352	10523	4781	3697	1357	322	2	0	1531	28353	1680	31565
2006	0	0	23	4	5806	9142	7343	6009	5091	3230	660	0	0	5833	27585	3890	37308
2007	1	0	9	4315	1293	12751	6514	8212	7040	683	373	24	1	5617	34517	1080	41214
2008	0	18	2090	43	704	9632	5506	6047	3428	480	181	799	18	2837	24613	1460	28928
2009	0	0	129	0	0	7123	13316	4815	4780	4220	1492	189	0	129	30034	5901	36064
2010	30	0	2	372	1309	9265	14432	6478	6124	3665	3065	321	30	1682	36299	7051	45063
2011	0	0	0	488	220	9308	11542	8926	4553	1253	917	0	0	708	34329	2170	37207
2012	0	4	1	1051	100	9688	5873	9536	3160	1713	661	0	4	1152	28257	2374	31787
2013	0	481	117	9	1109	11710	10340	5025	3859	1817	164	53	481	1235	30934	2034	34684
2014	0	0	0	44	1390	6037	8479	9977	5522	2275	318	246	0	1434	30015	2839	34288
2015	15	5	305	455	1203	7893	6685	4158	2577	1442	1005	61	20	1963	21313	2508	25804
2016	5	0	2	34	924	10618	6595	3770	2168	680	141	47	5	960	23151	867	24984

 Values are up to 1 decimal

MEAN	20	14	40	278	1443	9627	10019	6089	2949	1736	586	117	35	1762	28685	2441	32924
P-Ann	0	0	1	8	43	292	304	184	89	52	17	3	1	53	871	74	1000
SD	79	64	182	517	1627	2330	2920	2391	1667	1025	598	251	112	1651	4936	1211	5478
CV	38924330	4522	1859	1127	242	291	392	565	590	101921383189	937	172	496	166			

Table 34: NORTH INT. KARNATAKA SUBDIVISION, AREA 79895 SQ.KM 2.77 PER, 6 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	227	0	42	291	459	1067	863	1045	827	1010	262	0	227	792	3802	1272	6093
1872	0	0	9	204	98	1370	2024	562	2025	829	8	669	0	311	5981	1506	7798
1873	0	98	16	286	703	470	1496	996	1112	1250	153	0	98	1005	4074	1403	6580
1874	0	6	0	241	1035	2010	2075	878	3678	1176	93	0	6	1276	8641	1269	11192
1875	0	0	91	361	155	2200	2773	1240	680	1080	129	4	0	607	6893	1213	8713
1876	0	0	192	117	20	936	1673	454	598	128	12	0	0	329	3660	140	4129
1877	10	0	37	541	363	1591	519	1083	2346	2043	5	304	10	941	5539	2352	8842
1878	0	0	4	379	217	821	2306	2865	1762	1739	577	0	0	600	7754	2316	10670
1879	0	88	47	171	789	1581	1677	2619	504	956	527	15	88	1007	6381	1498	8974
1880	0	0	156	268	266	1623	1392	723	1573	1695	331	16	0	690	5311	2042	8042
1881	0	0	18	342	200	906	1412	1476	1314	714	812	0	0	560	5108	1526	7194
1882	80	0	91	145	611	1905	2915	1311	2058	835	574	21	80	847	8188	1430	10546
1883	2	0	182	156	293	1566	1702	2617	1238	1067	406	8	2	631	7123	1480	9237
1884	56	2	38	224	152	476	1964	1408	971	966	17	568	57	413	4819	1550	6841
1885	0	0	72	256	591	879	1708	1201	1921	1561	359	237	0	918	5709	2157	8785
1886	0	0	0	128	903	1556	1654	1631	990	1877	121	185	0	1031	5831	2183	9045
1887	0	0	72	316	270	1384	1720	1390	1516	1388	449	4	0	658	6010	1841	8509
1888	144	16	30	168	641	984	1547	975	1325	453	842	5	160	838	4831	1300	7130
1889	0	0	16	374	362	1485	1543	945	2820	1647	45	0	0	752	6793	1692	9237
1890	0	0	31	391	164	1210	1869	1133	1438	988	1142	225	0	586	5650	2355	8591
1891	26	134	141	348	425	438	1439	1354	780	1000	84	14	160	914	4010	1098	6183
1892	0	7	0	588	370	1765	1879	2649	2147	2248	165	0	7	958	8440	2413	11818
1893	0	43	536	225	1120	1782	1536	1732	1306	2033	474	0	43	1881	6356	2507	10787
1894	16	31	214	248	301	977	1751	1950	2029	852	347	0	47	762	6706	1199	8716
1895	0	49	1	392	362	1118	1566	1181	2976	1523	159	2	49	755	6841	1684	9329
1896	0	0	17	181	327	1606	2214	1566	605	276	407	56	0	525	5991	739	7254
1897	0	49	0	362	597	1544	1807	1103	2035	1160	0	0	49	959	6488	1160	8657
1898	0	134	173	404	421	1454	2114	486	2450	996	352	17	134	998	6504	1365	9001
1899	0	0	67	487	342	1087	363	563	1784	260	0	0	0	896	3797	260	4953
1900	0	0	24	388	356	1695	2480	1662	991	220	121	0	0	768	6828	341	7936
1901	5	165	66	865	506	1541	1599	1040	1323	750	151	26	170	1437	5503	927	8036
1902	0	0	19	179	359	1180	1118	764	1838	1165	364	973	0	557	4900	2502	7959
1903	29	0	0	84	497	984	2875	1582	1843	1740	395	223	29	581	7283	2358	10252
1904	3	0	88	169	484	1799	1086	747	1530	776	2	0	3	741	5162	777	6683
1905	0	32	37	112	353	1112	999	1428	658	1186	62	0	32	501	4197	1248	5978
1906	281	0	1	45	362	1602	1658	2258	1327	964	261	428	281	408	6845	1653	9187
1907	9	0	125	1130	19	929	1754	2716	1559	105	137	60	9	1274	6958	302	8543
1908	2	2	54	107	346	714	2403	1362	2391	151	23	0	4	506	6870	174	7554
1909	20	1	96	118	435	1269	2195	1811	1120	352	124	3	21	649	6395	478	7544
1910	0	0	63	73	277	1170	1719	1867	2135	673	294	0	0	413	6891	967	8271
1911	0	0	2	155	340	983	2243	1275	909	759	90	44	0	497	5410	893	6800
1912	0	144	12	288	352	486	2993	1710	643	836	316	18	144	652	5832	1170	7797
1913	0	4	0	210	651	1330	1842	821	837	676	80	5	4	861	4830	761	6456
1914	0	0	0	166	301	912	3447	3057	1627	283	366	202	0	467	9043	850	10361
1915	323	23	223	233	405	1075	1614	878	2059	1024	261	38	346	861	5626	1323	8155
1916	0	10	0	229	579	1295	2277	1203	1865	2144	1765	0	10	808	6640	3909	11367
1917	0	229	246	116	197	1610	940	1866	2152	1572	653	0	229	559	6568	2225	9581
1918	62	1	13	235	1276	368	494	833	1704	96	670	31	62	1524	3399	797	5783
1919	116	3	0	92	649	1704	1040	793	1948	890	812	57	119	741	5485	1759	8104
1920	32	0	0	424	363	950	1407	707	1331	644	6	0	32	787	4395	650	5864
1921	0	0	38	358	28	1003	2227	755	609	971	831	0	0	423	4594	1802	6819
1922	329	35	0	406	368	954	1729	600	510	734	1117	0	364	773	3793	1851	6782
1923	3	161	412	288	478	286	2878	986	1590	60	0	11	164	1178	5740	71	7152
1924	55	0	69	288	163	633	1955	1386	1452	387	131	26	55	520	5426	544	6544
1925	0	0	51	381	815	903	1712	1046	1066	1433	257	154	0	1247	4727	1844	7818
1926	313	11	14	43	528	495	1590	1940	1700	234	3	0	323	585	5725	236	6871
1927	0	15	29	167	459	1378	2172	688	1822	289	596	0	15	655	6060	885	7615

1928	0	282	110	233	204	1693	1998	1118	2249	936	0	139	282	547	7058	1075	8962
1929	14	280	48	408	403	1532	1027	460	1813	864	156	13	294	858	4832	1033	7018
1930	0	4	39	146	562	1209	1016	788	1902	1395	425	63	4	747	4915	1883	7549
1931	1	0	183	310	261	1220	1807	1207	1853	632	807	179	1	754	6087	1617	8460
1932	0	18	8	534	467	580	2312	1938	1170	1925	987	0	18	1009	6000	2912	9939
1933	1	46	224	529	835	1165	1793	1868	1474	1850	503	152	47	1588	6300	2505	10440
1934	88	0	1	376	62	1081	2887	1326	851	501	515	0	88	438	6145	1016	7687
1935	95	0	0	249	208	1332	1557	2154	824	1335	144	7	95	456	5867	1485	7905
1936	0	96	20	143	367	1392	688	704	1327	400	443	11	96	530	4111	854	5591
1937	0	128	247	778	142	669	1661	555	1362	1332	0	62	128	1167	4247	1394	6936
1938	0	72	524	212	286	1527	1743	2005	1819	486	26	31	72	1022	7094	542	8731
1939	0	0	66	93	63	1152	1558	2038	1297	1022	138	0	0	222	6045	1160	7427
1940	0	0	0	241	679	1448	1640	1572	1001	1022	229	59	0	920	5661	1310	7891
1941	142	50	72	172	266	708	1606	751	1477	682	0	72	192	510	4542	753	5998
1942	0	31	6	449	398	1744	1839	1470	580	408	82	196	31	853	5633	686	7202
1943	117	0	9	347	1096	1593	1858	746	1780	2185	304	0	117	1452	5977	2489	10035
1944	0	33	375	57	361	1169	2312	515	1379	1701	349	0	33	793	5375	2050	8251
1945	0	0	0	111	180	812	2478	1315	1274	615	51	0	0	291	5879	666	6836
1946	0	126	40	595	653	1275	2400	1779	1406	740	1012	37	126	1288	6860	1789	10063
1947	121	50	154	153	410	1004	1692	2236	1340	369	101	263	171	717	6272	733	7893
1948	8	0	34	434	230	1044	1287	1983	1812	744	1437	5	8	698	6126	2186	9018
1949	0	26	107	278	944	896	1722	1321	2705	837	157	0	26	1329	6644	993	8993
1950	0	34	41	121	519	909	2278	1709	2072	1146	125	0	34	681	6968	1271	8954
1951	0	0	11	280	635	1745	2137	980	1645	962	129	1	0	926	6507	1092	8525
1952	0	87	0	438	1143	896	2052	1070	894	1123	0	73	87	1581	4912	1196	7776
1953	0	0	14	263	73	1825	2668	1674	1779	2663	0	0	0	350	7946	2663	10958
1954	0	0	149	254	270	881	1799	2458	1004	650	20	84	0	673	6142	754	7569
1955	0	0	77	187	930	1745	1558	2298	2101	1056	227	0	0	1194	7701	1283	10179
1956	0	100	56	349	655	1196	4246	1730	1370	1967	679	16	100	1060	8542	2662	12364
1957	0	24	121	425	627	1356	1545	2349	982	2016	225	0	24	1173	6232	2241	9670
1958	0	23	68	440	1094	693	2750	1831	798	1148	290	0	23	1602	6072	1438	9135
1959	0	7	10	394	362	2123	2691	1336	1716	728	184	66	7	766	7866	978	9617
1960	0	0	339	182	1250	1033	1375	599	2633	451	303	0	0	1771	5640	753	8164
1961	2	0	33	278	1316	1283	3501	1222	456	1373	92	0	2	1627	6462	1465	9556
1962	1	65	83	826	636	757	2259	1598	1527	1147	220	704	66	1545	6141	2071	9823
1963	1	131	228	457	852	1102	1161	2528	558	1965	7	0	132	1537	5348	1972	8990
1964	0	67	107	236	118	936	2365	1747	3820	1299	273	62	67	461	8868	1634	11030
1965	13	0	6	293	324	1329	2571	964	1394	120	72	277	13	623	6258	469	7363
1966	83	11	83	144	1182	565	1984	1094	2053	653	1009	135	94	1409	5696	1797	8996
1967	66	0	81	470	362	1000	2818	1137	1440	1035	17	104	66	913	6395	1156	8530
1968	26	180	29	450	440	1387	1611	413	1933	1131	296	38	206	919	5343	1465	7933
1969	0	0	141	108	570	686	2024	2606	1769	907	363	20	0	819	7085	1290	9194
1970	4	0	0	342	739	821	1818	2521	1790	1088	0	0	4	1081	6950	1088	9123
1971	0	0	0	319	591	1442	925	1282	1339	1224	0	0	0	910	4988	1224	7122
1972	0	42	21	332	447	877	1263	398	1445	388	269	3	42	800	3983	660	5485
1973	0	0	0	208	274	1364	1159	1605	967	1700	109	9	0	481	5095	1817	7395
1974	0	0	117	331	1301	857	1108	1061	2008	1872	5	0	0	1749	5034	1877	8660
1975	35	15	61	82	588	1933	2505	1122	1990	2926	229	0	50	731	7550	3155	11486
1976	0	0	6	522	155	1421	1857	2367	1081	141	722	0	0	683	6726	862	8272
1977	0	0	122	667	536	1830	2006	1224	521	1360	891	2	0	1325	5581	2253	9159
1978	16	121	2	367	1051	1179	1847	2101	2267	828	443	80	137	1420	7394	1351	10302
1979	10	108	19	56	845	1464	954	1248	2623	522	1376	0	118	920	6288	1898	9225
1980	0	0	9	548	121	1312	1602	1776	1078	247	218	64	0	678	5768	529	6975
1981	83	0	121	394	482	1736	1144	1432	3328	631	258	1	83	997	7640	889	9609
1982	0	0	0	350	710	1268	2197	881	1553	790	541	0	0	1060	5899	1331	8289
1983	0	0	0	6	308	2002	1740	1969	2480	772	135	141	0	314	8191	1048	9553
1984	0	77	154	120	59	815	2612	772	1308	1044	76	197	77	333	5507	1317	7234
1985	46	0	35	259	491	1004	1250	1243	710	1376	15	10	46	785	4207	1401	6439
1986	207	114	32	258	467	1481	997	1790	1246	319	402	39	321	757	5513	760	7352
1987	77	10	22	50	737	1014	1028	1861	1137	1416	759	209	87	808	5040	2384	8320
1988	0	8	22	741	350	1005	2104	2375	2485	130	0	245	8	1113	7969	375	9465
1989	0	0	412	271	399	1443	2117	513	2480	275	122	157	0	1082	6553	554	8189
1990	63	0	0	126	1513	1688	882	1596	720	962	258	0	63	1639	4886	1220	7808
1991	17	0	39	549	623	2433	2376	1217	845	746	180	0	17	1211	6871	926	9025

1992	0	5	0	178	736	1541	1983	1723	1154	753	758	0	5	913	6401	1511	8831
1993	0	0	126	100	358	968	1956	1715	1016	2624	131	331	0	584	5655	3086	9325
1994	36	20	27	460	231	1390	2328	1098	740	2042	245	15	56	718	5556	2302	8632
1995	313	0	93	127	399	919	1603	1230	1334	1709	223	0	313	619	5086	1932	7950
1996	0	2	12	288	356	1306	1128	1813	1698	1719	128	21	2	656	5945	1868	8470
1997	95	0	200	429	256	948	954	828	1108	1068	786	202	95	885	3838	2056	6873
1998	0	0	3	302	319	1400	1294	1683	2411	1648	302	47	0	624	6788	1997	9409
1999	0	42	5	159	1279	1097	922	1153	1067	1700	120	27	42	1443	4239	1847	7571
2000	0	101	1	261	404	1438	1561	1781	1243	991	66	4	101	666	6023	1061	7851
2001	29	0	0	250	139	672	465	1186	1986	1243	32	118	29	389	4309	1393	6120
2002	40	11	64	228	208	1067	735	1724	847	1489	69	0	51	500	4373	1557	6481
2003	0	8	236	296	77	813	1075	1180	707	806	35	3	8	609	3775	844	5236
2004	57	0	27	367	1105	688	1020	873	1651	711	37	0	57	1499	4232	747	6536
2005	53	17	30	931	185	1298	1979	1882	2115	1215	70	11	70	1146	7274	1296	9786
2006	0	2	201	49	1464	2166	1738	1250	1643	614	361	0	2	1714	6797	975	9488
2007	0	14	23	320	436	2937	1352	1688	2214	533	194	0	14	778	8191	727	9711
2008	0	118	1139	225	254	924	925	2099	1296	1024	317	5	118	1617	5244	1346	8326
2009	0	0	124	38	149	1186	1434	1483	2413	1912	378	193	0	311	6516	2483	9309
2010	144	3	1	275	386	1277	2270	2199	1503	917	640	10	147	662	7248	1567	9625
2011	0	75	33	421	530	1167	1652	1427	597	1092	14	0	75	983	4843	1106	7008
2012	0	0	0	608	95	712	1183	1018	1200	881	257	38	0	703	4113	1176	5991
2013	10	206	89	194	638	1042	2419	989	1996	738	42	0	216	921	6446	780	8363
2014	0	31	328	385	1031	617	1722	2548	862	719	287	168	31	1744	5749	1174	8698
2015	31	0	403	591	411	1038	519	908	1596	548	64	21	31	1405	4061	633	6130
2016	3	4	61	128	453	1589	2201	819	1650	257	35	11	7	642	6259	303	7211

Values are up to 1 decimal

MEAN	29	31	84	300	490	1222	1768	1416	1530	1028	299	67	61	875	5936	1395	8268	
P-Ann	3	3	10	36	59	147	213	171	185	124	36	8	7	105	717	168	1000	
SD	66	56	136	186	323	433	638	593	641	582	322	139	83	374	1205	687	1479	
CV	2268	1776	1614	618	659	354	361	418	419	566	1078	206	213	63	427	203	492	178

Table 35: SOUTH. INT. KARNATAKA SUBDIVISION, AREA 93171 SQ.KM 3.23 PER, 11 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2013 based on 306
 stations and 2014-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	856	7	294	265	1291	1083	1036	689	1287	870	693	5	862	1850	4095	1568	8376
1872	0	24	1	192	976	812	1314	857	1143	850	314	454	24	1169	4126	1618	6937
1873	0	105	1	501	845	773	961	1316	953	2392	52	35	105	1347	4003	2479	7934
1874	0	0	0	121	2030	1433	1707	1012	2158	2055	218	93	0	2151	6310	2366	10827
1875	6	0	296	70	715	1167	1163	666	569	637	56	63	6	1081	3565	756	5408
1876	0	0	305	292	703	695	1434	1003	492	159	73	0	0	1300	3624	232	5156
1877	0	0	168	472	490	1429	453	952	1779	2405	448	216	0	1130	4613	3069	8811
1878	0	0	152	576	965	890	1242	2087	1485	1296	298	48	0	1692	5704	1642	9039
1879	19	140	157	253	2004	1081	1874	1269	742	1236	254	22	159	2414	4966	1512	9051
1880	23	0	139	570	1394	1279	1395	1225	814	2344	1131	56	23	2103	4713	3531	10370
1881	10	3	211	365	776	502	687	1496	1177	386	1074	23	13	1352	3862	1483	6710
1882	265	0	86	120	1484	1428	3209	1467	1247	1129	1292	5	265	1690	7351	2426	11732
1883	0	0	251	503	1070	737	1910	2335	385	2585	880	544	0	1824	5367	4009	11200
1884	97	0	4	265	528	708	711	1384	698	1714	520	141	97	797	3500	2375	6770
1885	0	0	171	181	1084	1193	968	795	1430	2382	310	526	0	1436	4386	3218	9040
1886	0	0	50	100	1342	1169	1808	1333	1750	1091	814	115	0	1492	6060	2020	9572
1887	0	0	12	405	904	1297	1322	963	1063	2094	1196	203	0	1321	4645	3493	9459
1888	12	13	11	380	1049	935	1620	926	1495	603	1489	30	25	1440	4976	2122	8562
1889	22	4	16	526	710	1156	1584	1652	3142	1790	158	215	26	1252	7534	2163	10975
1890	2	14	167	843	1097	715	1491	1058	935	1474	1046	173	16	2107	4199	2693	9014
1891	10	34	259	532	617	1166	1525	811	313	1568	131	18	44	1408	3815	1717	6983
1892	0	35	33	760	1070	1446	1870	1583	758	1185	117	58	35	1863	5657	1360	8915
1893	0	77	376	377	1091	1662	1544	813	710	2161	906	0	77	1844	4728	3067	9717
1894	0	17	207	855	1144	740	1045	1285	491	1947	400	6	17	2206	3561	2353	8136
1895	0	19	7	909	862	1437	1296	1191	1565	1790	511	75	19	1777	5489	2376	9662
1896	0	0	38	282	1107	1893	1975	1453	1258	498	891	37	0	1427	6578	1425	9432
1897	0	100	18	340	1003	1431	1530	1911	2890	951	65	7	100	1361	7762	1022	10246
1898	0	15	3	470	830	1074	1271	795	2676	1448	1801	60	15	1303	5816	3309	10443
1899	0	11	10	951	819	1024	391	645	2086	780	22	18	11	1780	4146	820	6757
1900	0	0	14	504	557	1321	1742	1431	1299	1444	113	50	0	1075	5793	1607	8475
1901	23	388	25	186	995	817	1311	761	1621	1721	722	179	411	1206	4510	2622	8749
1902	23	3	38	519	968	775	1426	688	1162	2468	419	743	26	1525	4051	3630	9232
1903	1	0	0	105	1297	1170	1929	1387	2388	1954	1832	261	1	1402	6873	4046	12323
1904	6	9	47	446	1919	1098	1625	517	873	1616	31	4	15	2412	4113	1651	8191
1905	20	153	127	189	974	795	993	1314	403	1466	247	10	173	1290	3505	1723	6691
1906	215	20	33	34	530	1060	1675	2739	1170	1657	179	518	235	597	6644	2354	9830
1907	32	0	124	912	565	1091	1771	1474	1442	432	601	139	32	1601	5778	1172	8583
1908	207	16	115	398	971	665	1606	877	865	554	10	6	223	1484	4013	570	6290
1909	217	19	115	559	1955	985	1486	1928	1033	1247	323	136	236	2629	5432	1706	10002
1910	0	14	97	339	766	891	2051	2154	1152	2118	831	0	14	1202	6248	2949	10412
1911	1	0	95	296	1252	1280	1667	615	567	1649	375	79	1	1642	4129	2103	7876
1912	4	53	87	364	751	1063	1956	1322	1863	1840	548	0	57	1202	6204	2388	9851
1913	0	0	11	198	969	803	1836	572	1617	1031	12	31	0	1178	4828	1074	7080
1914	1	12	23	223	556	483	1858	1172	1081	1212	673	179	13	802	4594	2064	7473
1915	155	13	421	401	802	1934	1404	584	1658	920	1061	127	168	1624	5580	2108	9480
1916	0	0	0	202	1521	1168	1774	1650	1374	1792	1394	74	0	1723	5966	3259	10949
1917	4	410	178	165	714	1046	693	1559	2393	1488	779	29	414	1057	5691	2296	9458
1918	220	6	211	394	933	396	428	694	1124	440	1834	133	226	1538	2641	2407	6813
1919	62	0	57	249	1084	1237	1303	789	2181	709	1662	61	62	1390	5510	2432	9394
1920	84	15	20	392	657	948	1355	907	1425	1103	362	0	99	1069	4635	1465	7268
1921	157	0	27	884	533	830	1571	1217	685	1762	776	3	157	1444	4303	2541	8445
1922	93	8	2	293	1076	827	1271	911	507	1767	1511	15	101	1371	3516	3293	8281
1923	43	41	343	348	904	571	2587	1199	955	405	98	14	84	1595	5312	517	7508
1924	3	1	43	380	965	906	2710	1205	1372	579	484	131	4	1388	6193	1194	8779
1925	0	0	71	631	1271	829	1448	1011	1195	595	764	468	0	1972	4483	1827	8283
1926	266	1	97	454	686	781	1792	1134	1392	994	68	8	267	1237	5098	1070	7673
1927	0	39	103	112	811	857	1671	759	1575	213	676	0	39	1026	4862	888	6815

1928	9	441	162	359	704	977	1336	1337	369	2425	261	109	450	1225	4019	2795	8489
1929	45	143	2	1177	1016	1070	1195	638	1706	1125	803	62	188	2195	4609	1990	8982
1930	73	81	114	228	1733	844	733	613	1602	2606	445	157	154	2075	3792	3208	9229
1931	0	0	26	401	956	877	1113	1476	1742	348	896	269	0	1382	5208	1512	8103
1932	0	229	21	211	1483	531	1591	2189	1018	2187	1225	46	229	1715	5329	3458	10731
1933	0	30	117	436	1941	866	1712	2471	1614	2397	122	439	30	2494	6663	2958	12145
1934	81	32	9	573	565	1061	1054	1012	334	2119	390	11	113	1147	3461	2520	7241
1935	63	20	69	402	621	1331	1342	1914	1041	2104	80	72	83	1092	5628	2256	9059
1936	1	38	257	153	1173	1495	1236	924	1831	765	915	42	39	1583	5486	1722	8830
1937	1	150	264	895	1036	617	1571	650	1115	1311	249	109	151	2195	3953	1669	7968
1938	0	29	184	328	396	807	1079	2201	1646	245	166	30	29	907	5733	441	7111
1939	47	0	136	815	478	639	1207	1464	930	2227	775	0	47	1429	4240	3002	8718
1940	0	0	29	514	1357	1470	1360	1218	1171	1614	1631	195	0	1900	5218	3440	10558
1941	10	73	1	636	920	1284	1256	1376	1356	1203	195	695	83	1557	5272	2093	9004
1942	0	40	6	546	1115	1273	1569	1232	775	1177	358	250	40	1667	4849	1785	8341
1943	256	0	76	577	1631	630	1505	545	1424	2848	651	0	256	2284	4104	3499	10143
1944	0	402	416	219	805	896	1766	632	1292	1682	797	84	402	1440	4586	2563	8991
1945	0	0	0	535	1088	517	1958	789	739	700	303	0	0	1623	4003	1003	6628
1946	0	19	177	481	868	828	1199	1795	1617	1166	1520	403	19	1526	5439	3089	10073
1947	88	56	133	237	606	930	1522	1936	1215	1287	127	167	144	976	5603	1580	8304
1948	56	0	46	593	1477	1252	1215	2150	605	1076	939	51	56	2116	5222	2066	9460
1949	0	6	25	236	863	750	1597	1307	1017	1712	72	0	6	1124	4671	1784	7585
1950	2	165	31	14	889	664	1906	1490	1476	1277	862	1	167	934	5536	2140	8777
1951	1	0	140	578	1481	818	1784	603	1965	1308	320	0	1	2199	5170	1628	8998
1952	0	176	5	375	960	541	1274	1190	610	1962	0	604	176	1340	3615	2566	7697
1953	4	7	2	901	440	1217	2745	983	1292	3500	33	0	11	1342	6237	3533	11124
1954	28	5	67	498	1792	1001	2193	1834	404	1956	0	219	33	2357	5432	2175	9997
1955	22	14	212	703	1842	908	663	1158	1939	1932	187	49	36	2757	4668	2168	9629
1956	11	30	2	782	351	1342	1571	810	1335	3079	1349	14	41	1134	5058	4442	10676
1957	0	16	105	203	1943	1347	1299	818	476	1800	837	4	16	2251	3939	2641	8848
1958	73	54	81	712	1618	1063	1435	1655	1297	1482	685	19	127	2411	5450	2186	10174
1959	0	104	0	255	994	1919	2348	1200	1903	759	448	39	104	1249	7370	1246	9969
1960	1	0	315	362	902	674	1547	694	1610	1349	705	1	1	1579	4525	2055	8160
1961	22	31	30	714	1466	1391	3148	1224	605	1834	194	19	53	2210	6368	2046	10678
1962	15	72	52	1097	1421	487	1504	1429	1481	2319	263	680	87	2570	4901	3261	10820
1963	29	2	128	591	777	701	1207	1613	1076	2179	154	155	31	1496	4597	2488	8612
1964	0	0	4	239	853	951	2225	2067	1896	1360	1152	35	0	1096	7139	2547	10782
1965	57	0	26	200	508	713	1173	1326	809	153	397	308	57	734	4021	858	5670
1966	30	0	42	303	1123	719	1522	763	2400	1642	1612	245	30	1468	5404	3499	10401
1967	88	0	41	274	695	1052	2161	849	383	969	197	222	88	1010	4444	1388	6931
1968	0	122	76	559	715	935	1395	631	2271	1043	275	66	122	1350	5232	1384	8088
1969	0	0	54	461	1067	599	1464	1607	667	1743	919	287	0	1582	4337	2949	8868
1970	13	30	63	539	1263	710	1072	1107	1022	2246	275	3	43	1865	3910	2524	8343
1971	2	34	25	425	1074	1119	759	1727	1738	1116	193	110	36	1524	5343	1419	8322
1972	0	0	0	273	1736	1029	1180	569	1740	1212	246	485	0	2009	4518	1943	8470
1973	0	0	0	341	990	1223	1509	1716	1055	1614	344	121	0	1331	5503	2079	8913
1974	12	0	14	413	1029	349	1727	904	2271	1367	79	0	12	1456	5251	1445	8165
1975	32	62	228	238	1137	1239	1712	1551	1671	1365	787	15	94	1602	6173	2167	10037
1976	0	0	5	961	244	547	981	1057	581	478	893	4	0	1210	3166	1375	5751
1977	0	6	153	674	1495	1151	1256	1262	1401	2289	867	0	6	2322	5070	3155	10554
1978	7	102	18	557	1247	1005	1692	1288	1545	1115	894	412	109	1822	5530	2421	9882
1979	0	253	71	448	635	1544	1053	1481	2208	1262	1279	4	253	1154	6286	2545	10238
1980	0	0	25	418	884	1128	1735	821	2009	1014	531	13	0	1327	5693	1558	8578
1981	46	0	363	289	990	661	988	1802	2232	1310	439	132	46	1642	5683	1880	9252
1982	0	0	6	220	879	885	831	1044	1002	911	528	10	0	1105	3762	1449	6316
1983	0	0	0	22	950	1673	1217	1636	1467	1165	161	395	0	972	5993	1721	8686
1984	2	108	925	481	533	840	1698	754	1701	1278	194	96	110	1939	4993	1568	8610
1985	42	0	147	382	484	983	743	1004	1326	471	380	64	42	1013	4056	915	6026
1986	241	117	24	314	585	1258	759	1342	2204	857	950	164	358	923	5563	1970	8815
1987	0	0	109	144	664	1106	716	1371	1367	1734	836	511	0	917	4560	3081	8557
1988	0	52	70	683	682	462	2022	2197	2015	232	137	245	52	1435	6696	614	8797
1989	0	0	152	232	704	1055	2440	968	1626	1229	275	84	0	1088	6089	1587	8765
1990	25	0	26	151	1463	796	944	1367	639	1360	591	26	25	1640	3746	1977	7388
1991	3	0	31	600	1373	2066	1304	1177	1482	2009	778	0	3	2004	6029	2787	10823

1992	0	0	0	294	813	2368	1345	1456	1244	1290	1320	11	0	1107	6413	2621	10141
1993	0	15	108	325	746	1196	1243	1224	1141	2520	478	631	15	1179	4804	3629	9627
1994	302	47	28	406	892	1140	2229	844	895	2851	469	25	349	1325	5108	3345	10128
1995	84	0	89	562	968	655	1525	1460	1286	1175	363	0	84	1619	4926	1538	8167
1996	1	0	8	750	615	1225	1080	1722	2393	1218	107	359	1	1373	6420	1684	9478
1997	60	0	239	404	650	1074	1250	1447	1152	1865	1518	355	60	1293	4923	3738	10014
1998	0	4	73	579	450	956	1854	1784	1554	1657	711	141	4	1102	6148	2509	9763
1999	3	44	3	562	1376	750	1579	929	1238	2698	373	73	47	1941	4496	3143	9627
2000	4	177	1	516	828	918	1085	2062	1397	1854	157	140	181	1345	5462	2151	9139
2001	19	49	27	1058	306	701	1110	1050	1437	1154	455	25	68	1391	4298	1634	7391
2002	90	56	58	254	728	906	591	962	727	1434	148	30	146	1040	3185	1612	5983
2003	0	83	204	363	90	626	1054	1194	400	2155	119	3	83	657	3274	2277	6291
2004	7	1	96	704	1618	1225	1419	1249	1102	1231	243	53	8	2418	4995	1527	8948
2005	98	108	65	891	785	1032	2517	1741	1095	3072	534	40	206	1741	6385	3646	11977
2006	1	0	613	321	1490	1596	1154	990	945	577	735	19	1	2424	4685	1330	8441
2007	0	0	43	499	857	1796	1662	2123	1902	1604	174	155	0	1399	7483	1932	10815
2008	0	201	1189	258	846	830	1436	2121	1101	1183	318	24	201	2293	5488	1525	9507
2009	0	0	226	102	370	974	2095	1640	2443	631	682	160	0	698	7152	1472	9323
2010	94	7	110	1008	1092	988	1932	1983	1655	1423	1926	38	100	2210	6558	3387	12256
2011	0	71	62	989	859	1018	1206	1526	730	1614	609	31	71	1910	4480	2254	8715
2012	1	1	9	1044	364	430	758	1678	661	606	763	80	2	1417	3527	1449	6395
2013	2	89	140	307	1224	1304	2082	1094	1814	724	422	24	90	1671	6293	1170	9226
2014	11	34	210	455	1420	753	1853	1949	1516	1472	239	192	45	2085	6071	1902	10104
2015	47	2	288	784	1363	1465	668	1046	1533	1011	1616	45	48	2435	4712	2672	9867
2016	36	4	38	85	1001	1214	1341	657	589	210	107	319	40	1124	3801	636	5601

 Values are up to 1 decimal

MEAN	38	42	109	447	989	1020	1468	1270	1316	1437	584	127	80	1546	5074	2149	8851
P-Ann	4	4	12	50	111	115	165	143	148	162	66	14	9	174	573	242	1000
SD	92	79	155	250	396	348	496	471	569	678	470	167	116	464	1043	847	1486
CV	24251883	1411	560	400	341	338	371	432	471	80613091449	300	205	394	167			

Table 36: KERALA SUBDIVISION, AREA 38864 SQ.KM 1.35 PER, 10 STN
 Monthly, Seasonal and Annual rainfall (in 10th of mm) 1871-2016 (1871-2014 based on 306
 stations and 2015-2016 based on IMD Subdivisional rainfall

year	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JF	MAM	JJAS	OND	ANN
1871	969	149	536	1651	1981	8801	9447	2508	2214	1393	2166	941118	4168	22970	3653	31909	
1872	0	133	14	801	1854	7981	7418	4020	4298	971	936	379	133	2669	23717	2286	28805
1873	4	780	25	1526	2478	8313	8567	1887	1283	2190	190	142	784	4029	20050	2522	27385
1874	0	114	51	874	5912	10541	6913	3196	2357	2453	775	277	114	6837	23007	3505	33463
1875	16	0	153	924	1161	8633	6502	3128	1187	1571	505	112	16	2238	19450	2188	23892
1876	0	3	375	442	752	5965	7862	2427	1105	546	365	21	3	1569	17359	932	19863
1877	0	49	211	864	1185	8451	2644	5852	3945	5062	1023	753	49	2260	20892	6838	30039
1878	4	0	164	1033	2000	9362	5478	8553	5861	3004	1247	464	4	3197	29254	4714	37169
1879	41	36	435	459	5724	4712	5713	3564	1783	2727	1092	436	77	6618	15772	4255	26722
1880	2	116	151	1412	2873	7190	6063	1548	1439	1207	1945	376	118	4436	16240	3528	24322
1881	11	0	235	183	1504	2929	3000	5527	1936	1122	2046	65	11	1922	13392	3233	18557
1882	351	2	7	348	3465	9544	11312	3311	2361	2826	1240	93	353	3820	26528	4159	34860
1883	38	3	386	845	2279	6914	7766	3700	844	2707	1475	242	41	3510	19224	4424	27199
1884	0	6	189	349	1527	4714	4449	4656	3146	2516	1524	193	6	2065	16965	4233	23269
1885	0	34	168	366	927	10307	8440	3888	1098	3950	11051025	34	1460	23733	6080	31308	
1886	20	18	2	665	3811	5527	5879	1741	1766	2895	986	142	38	4478	14913	4023	23452
1887	0	29	177	1086	922	9226	5281	1278	1504	2944	1481	457	29	2185	17289	4882	24385
1888	0	63	38	954	3571	10688	4975	4632	1232	1489	2227	30	63	4563	21527	3745	29899
1889	0	41	189	1126	1915	8216	3821	4098	4195	2725	986	450	41	3230	20330	4161	27762
1890	16	247	583	1825	1774	6157	5119	2237	1115	1567	649	243	263	4182	14627	2459	21532
1891	37	259	476	1069	2472	7366	5572	2718	862	4705	1339	659	296	4017	16518	6703	27533
1892	0	81	541	2255	2946	3573	10024	4745	1445	4684	1007	63	81	5742	19787	5753	31364
1893	187	349	1072	645	3274	7480	3640	2551	1565	2636	1923	22	536	4991	15236	4581	25344
1894	53	157	1070	1389	1364	6011	5039	4048	1430	2306	702	99	210	3823	16528	3106	23667
1895	8	0	335	2156	992	6227	5601	2708	874	3002	696	313	8	3483	15410	4011	22912
1896	31	5	192	707	1916	9057	5834	5372	1102	1983	1618	531	36	2815	21365	4132	28348
1897	20	527	285	1084	1403	8927	7399	6316	3027	1880	1180	172	547	2772	25669	3232	32220
1898	27	250	150	932	1942	6761	5987	1070	1941	2688	1760	163	277	3024	15759	4611	23670
1899	38	265	229	3101	2086	7097	2742	1209	808	3345	320	74	303	5416	11856	3739	21314
1900	45	38	63	2133	1044	7623	6561	4420	1671	2183	597	330	83	3240	20274	3110	26708
1901	245	364	570	1386	1466	7806	5981	2897	1769	2801	3690	445	609	3422	18453	6936	29420
1902	70	9	568	799	1349	4033	10402	2762	4257	3726	11231460	79	2715	21454	6309	30558	
1903	26	190	14	767	2777	5766	8516	3577	2884	3673	1542	610	216	3558	20742	5825	30342
1904	295	22	450	798	2633	10752	6315	2738	1984	3156	249	79	317	3880	21789	3484	29470
1905	1	71	105	800	2494	7341	4973	2549	2006	3731	761	6	72	3399	16869	4498	24838
1906	201	81	77	489	1605	3976	8586	3533	1143	2499	1562	771	282	2171	17238	4832	24523
1907	121	35	455	1582	801	8139	6536	8603	2669	2686	1892	647	156	2838	25947	5225	34166
1908	39	230	413	943	1324	5905	9338	3204	2053	2892	506	140	269	2680	20500	3538	26987
1909	665	107	612	767	4737	6285	7777	2276	1944	1826	1454	191	772	6116	18282	3471	28641
1910	3	213	191	1507	1349	6804	4496	3821	2217	4101	2618	0	215	3047	17338	6719	27320
1911	55	63	200	488	1918	8951	6271	1837	462	3259	1520	902	118	2606	17520	5681	25925
1912	6	135	107	1127	1994	9944	7235	5116	1473	5518	1245	207	141	3228	23768	6970	34107
1913	18	173	205	726	2338	5167	6530	1961	1882	4407	918	400	190	3269	15539	5725	24725
1914	0	67	157	352	1937	6169	7814	3987	2230	4120	8541572	67	2446	20200	6546	29259	
1915	235	146	385	1323	1886	6738	8447	2805	4693	1652	3094	208	381	3594	22683	4953	31612
1916	0	104	213	955	2346	8356	5102	3660	3180	3259	1346	139	104	3514	20298	4744	28659
1917	9	622	769	422	1427	7398	3710	3505	4544	3008	2274	421	631	2618	19157	5702	28109
1918	470	33	138	615	7314	5708	1525	3297	972	2300	2728	641	503	8067	11502	5668	25741
1919	540	144	292	698	2868	5883	6384	4415	2846	2427	3389	614	684	3858	19528	6430	30499
1920	248	40	310	2021	695	11114	8563	2242	2027	4069	2851	152	288	3026	23945	7072	34332
1921	390	45	154	1828	1113	4792	5481	6539	1385	3355	1405	95	435	3095	18197	4855	26582
1922	131	205	351	689	3551	7706	10715	2599	2163	2334	2782	173	336	4591	23183	5289	33399
1923	92	0	891	409	812	7483	8232	8291	2652	1877	891	356	92	2112	26658	3124	31986
1924	190	52	744	1303	1999	10145	12533	5839	2636	1536	1928	544	242	4046	31153	4008	39449
1925	4	238	760	984	2890	6609	5699	5357	1789	2850	24611034	241	4634	19454	6345	30675	
1926	184	46	205	416	2529	6492	8017	4355	3383	2489	1228	173	230	3150	22247	3890	29517
1927	240	441	634	681	3000	7052	7871	2685	3670	1175	1229	69	681	4315	21278	2473	28746

1928	118	744	450	1086	730	5365	4076	5146	846	3225	1277	452	862	2266	15432	4954	23515
1929	93	515	385	2127	1211	9844	7794	2453	2946	3845	1494	338	608	3723	23037	5677	33045
1930	243	82	585	1007	4407	5968	3709	2435	3993	4088	1885	816	325	5999	16105	6788	29218
1931	12	9	72	1045	1574	5753	6063	10235	1562	1597	1364	1141	21	2690	23613	4102	30427
1932	3	103	452	871	6980	3141	5574	3975	3023	5698	2493	288	106	8303	15713	8479	32601
1933	0	51	478	1516	8374	7982	6701	4254	4099	4040	1136	209	511	10368	23036	5385	38840
1934	687	18	353	978	1311	8862	3288	2808	403	3345	966	57	705	2642	15361	4368	23076
1935	275	70	301	1202	426	4208	6158	2742	2542	3837	1466	120	345	1929	15650	5423	23347
1936	7	216	1154	549	5325	6074	6405	3024	3044	2340	2126	165	223	7028	18547	4631	30429
1937	110	196	553	1699	1280	4950	9871	2729	1369	3974	1179	205	306	3532	18919	5358	28114
1938	0	876	405	1762	1812	6341	6368	2893	1993	1715	638	204	876	3979	17595	2557	25007
1939	90	45	208	2264	1392	6943	7087	3276	1363	3042	3166	74	135	3864	18669	6282	28950
1940	3	0	1	1195	2430	5906	8949	6031	406	3101	2544	450	3	3626	21292	6095	31016
1941	181	47	85	1048	4831	7349	4310	4086	2913	2356	2230	900	228	5964	18658	5486	30336
1942	0	25	210	1511	2142	8815	7246	2562	821	4075	892	1465	25	3863	19444	6432	29764
1943	599	161	507	1090	5203	9173	6655	1657	2455	4255	2454	193	760	6800	19940	6902	34402
1944	495	373	677	633	2377	4980	5501	1908	1351	2731	2356	789	868	3687	13740	5876	24171
1945	82	209	65	957	412	5574	6875	3453	1017	2423	2835	197	291	1434	16919	5455	24099
1946	2	13	1286	1589	1021	9463	6793	6135	2061	2720	3131	2211	15	3896	24452	8061	36425
1947	220	349	921	1469	869	6284	6315	7517	4241	1571	202	396	569	3259	24357	2169	30354
1948	319	56	757	1160	2154	9612	6062	3815	1493	1763	2233	280	375	4070	20982	4276	29704
1949	6	25	23	1090	4782	5414	7470	4181	3619	2091	844	3	31	5895	20684	2938	29548
1950	0	587	370	664	2706	6175	8178	4073	3893	2647	2042	64	587	3740	22319	4753	31399
1951	37	28	572	1722	1385	8156	4535	1522	3066	2607	2144	290	65	3679	17279	5041	26064
1952	34	456	278	1268	2668	6065	3931	3860	464	3022	494	592	490	4214	14320	4108	23132
1953	120	191	179	1273	635	3092	10302	2477	1049	4571	914	42	311	2087	16919	5527	24844
1954	269	60	1026	1606	2371	8468	5694	3916	1998	2760	405	675	329	5003	20076	3840	29248
1955	14	130	425	1274	5444	7625	3661	1955	4502	4325	2109	115	144	7143	17743	6549	31578
1956	44	110	146	1941	4124	7404	3433	2704	1688	4159	1772	45	154	6211	15229	5976	27569
1957	13	171	337	874	4084	8928	7877	3384	360	2690	1693	375	184	5295	20549	4758	30785
1958	58	291	609	1177	3861	7815	4843	4212	574	1796	1741	62	349	5647	17444	3599	27039
1959	1	153	95	1615	3954	7146	9063	3759	3520	1912	1460	319	154	5664	23487	3691	32996
1960	120	86	366	1950	5933	5173	6737	3280	3489	2341	3621	186	206	8249	18679	6148	33282
1961	115	409	124	899	4618	9613	9524	6373	3924	2560	778	135	524	5641	29434	3473	39072
1962	335	509	265	775	5018	2772	8688	4745	3284	4176	250	625	844	6058	19489	5051	31442
1963	273	348	606	898	1333	4138	6905	4936	2242	2045	942	347	621	2837	18221	3334	25012
1964	13	60	819	722	969	3379	7157	3880	3975	3438	1274	129	73	2510	18391	4841	25814
1965	47	28	197	955	2079	5811	4244	2994	1596	1684	1004	1544	75	3230	14645	4232	22182
1966	13	116	446	926	757	5158	4628	1504	2762	4403	2627	537	129	2129	14052	7567	23877
1967	312	0	243	441	2661	5893	7246	5578	1393	1929	841	413	312	3345	20110	3183	26950
1968	61	362	1029	1443	940	6858	12811	3626	2799	1479	1330	253	423	3412	26094	3061	32991
1969	46	23	211	1352	2253	5817	7943	2749	1990	2823	1130	829	69	3816	18499	4782	27165
1970	157	129	408	1658	2557	5763	5439	5473	2222	2973	573	24	286	4623	18897	3569	27375
1971	474	256	257	1037	3457	8752	6325	3792	3515	1942	366	413	730	4751	22384	2720	30586
1972	26	86	33	919	5067	4166	7000	2797	1772	3780	1533	1140	112	6019	15735	6453	28319
1973	0	0	79	1373	1227	6484	5298	4757	668	3008	868	310	0	2679	17207	4186	24072
1974	15	122	187	1553	3147	2899	9887	5227	4093	1578	716	34	137	4887	22106	2328	29458
1975	16	320	887	1627	1730	9092	5094	6445	4585	3985	1978	180	336	4244	25216	6143	35939
1976	1	0	234	1732	1100	2225	6080	3236	1065	2527	3279	241	1	3065	12606	6046	21720
1977	11	91	422	1111	3722	6183	7318	2389	2008	4326	3798	158	102	5255	17898	8282	31537
1978	68	384	379	753	4206	7671	6797	4663	1347	1488	3755	184	452	5338	20478	5427	31695
1979	19	440	85	672	1369	6725	5977	3341	2641	2078	3278	368	459	2126	18684	5723	26993
1980	1	93	274	1162	1233	7593	7011	3702	1448	3063	1800	542	94	2669	19754	5405	27922
1981	75	167	418	1104	2257	11237	4500	5147	4380	2792	1580	186	242	3779	25264	4558	33843
1982	0	1	347	625	2111	7145	5028	4547	774	1800	1393	121	1	3083	17494	3314	23892
1983	3	0	0	310	692	3316	5976	5952	5296	1259	1615	742	3	1002	20540	3615	25160
1984	408	726	1127	2213	1163	7136	5326	2309	1452	2507	756	212	1134	4503	16222	3475	25335
1985	550	166	385	1000	3075	8373	3931	3014	1161	2344	970	327	716	4460	16479	3641	25295
1986	24	241	328	954	1107	6108	3167	3636	2377	1457	2003	70	265	2389	15287	3530	21471
1987	10	9	99	868	1186	6289	2382	4300	1595	2956	2091	1282	19	2153	14566	6329	23067
1988	0	194	455	1679	1572	6138	5624	4116	4631	823	720	309	194	3705	20509	1852	26260
1989	89	1	193	1302	1665	7472	4515	2920	2726	3379	823	66	90	3160	17633	4268	25151
1990	112	22	240	287	5200	4948	6559	2527	1139	3557	1469	1	134	5727	15172	5027	26060
1991	35	18	339	787	1303	10659	7963	4502	465	3115	899	56	53	2429	23589	4070	30140

1992	11	0	2	480	2412	7849	6815	5061	2640	3202	3004	32	11	2894	22365	6238	31507
1993	0	96	103	634	1526	7090	7276	2093	733	4561	1757	720	96	2263	17192	7038	26589
1994	193	427	206	1792	1572	8413	8789	4559	2027	4466	1201	40	620	3570	23787	5707	33685
1995	106	64	533	1402	3906	5049	6101	4225	2628	1482	1793	0	170	5841	18003	3275	27289
1996	56	69	161	1256	800	5831	6601	3026	3242	2823	1165	680	125	2217	18700	4668	25710
1997	1	2	412	538	1648	6409	9438	5198	2960	2892	2742	833	3	2598	24005	6467	33073
1998	36	21	197	520	2045	7625	5530	3088	5226	4500	1035	885	57	2762	21469	6420	30707
1999	19	242	207	1340	4894	6125	6103	2236	1536	5932	1061	47	261	6441	16000	7040	29742
2000	73	656	324	823	1100	5556	2771	5322	1886	2144	931	604	729	2247	15534	3679	22190
2001	261	388	78	2341	2578	6141	4624	3455	2454	2833	1038	98	649	4997	16674	3968	26289
2002	48	80	340	1155	3524	5147	2831	3867	1115	5812	2078	3	128	5019	12960	7893	26000
2003	6	511	585	1545	875	5929	5246	3325	796	3517	714	69	517	3005	15296	4300	23117
2004	43	81	285	974	6931	6361	3194	3224	1424	3568	1083	29	124	8190	14203	4679	27197
2005	141	27	134	1737	1307	5112	5531	1913	3000	1950	1698	457	168	3178	15556	4105	23007
2006	103	35	433	590	4559	6236	6117	3646	4504	3301	2028	6	138	5582	20503	5335	31558
2007	3	139	27	1195	2153	6440	8036	3898	4848	3437	1040	66	142	3375	23222	4543	31282
2008	0	268	2428	1336	744	4275	4710	2636	3126	3477	743	212	268	4508	14747	4432	23955
2009	17	0	542	867	2091	4522	7852	2219	2415	1988	2819	509	17	3500	17008	5316	25840
2010	133	2	717	1389	2132	6719	5795	2916	2472	4757	3308	510	135	4238	17902	8575	30850
2011	257	542	365	1262	1373	6919	5169	4530	3352	1734	1436	905	799	3000	19970	4075	27844
2012	97	106	349	1607	905	4521	3327	4457	2357	1862	1108	88	203	2861	14662	3058	20784
2013	55	432	537	401	1423	10680	7337	3356	2788	3390	1392	94	487	2361	24161	4876	31885
2014	34	62	235	895	2830	4339	6154	7075	2861	3724	1070	403	96	3960	20429	5197	29682
2015	41	60	596	2177	2074	5972	3608	2276	2712	2966	2283	811	101	4847	14568	6060	25576
2016	30	170	266	338	2656	6309	3921	2085	777	1006	592	224	200	3260	13092	1822	18374

 Values are up to 1 decimal

MEAN	107	163	369	1116	2433	6796	6334	3758	2299	2871	1544	371	271	3919	19187	4788	28166
P-Ann	3	5	13	39	86	241	224	133	81	101	54	13	9	139	681	169	1000
SD	163	185	318	519	1556	1922	2048	1556	1217	1083	836	375	255	1580	3728	1481	4136
CV	15131136	862	464	639	282	323	414	529	377	5411009	942	403	194	309	146		

Table 37 : Trends (mm/year) in summer monsoon (JJAS) rainfall for the period 1871-2016 and 1981-2016 for all- India and 30 meteorological subdivisions

	Meteorological Subdivisions	1871-2016	1981-2016
1	All-India	-0.18	-0.17
2	Assam & Meghalaya	-0.74**	-5.95*
3	Nagaland. Manipur. Mizo.Tripura	-1.64***	-1.71
4	Sub-Himalayan West Bengal	-0.37	-8.49*
5	Gangetic West Bengal	0.40	-1,71
6	Orissa	-0.24	2.06
7	Jharkhand	-0.44	-0.37
8	Bihar	-0.55	-6.43
9	East Uttar Pradesh	-0.72**	-6.38***
10	West Uttar Pradesh Plain	-0.53**	-3.53
11	Haryana, Chandigarh & Delhi	0.13	-1.96
12	Punjab	0.18	-2.07
13	West Rajasthan	0.21	1.99
14	East Rajasthan	-0.05	3.92*
15	West Madhya Pradesh	0.08	3.02
16	East Madhya Pradesh	-1.07***	-0.62
17	Gujarat	-0.11	5.05
18	Saurashtra, Kutch & Diu	0.40	8.26**
19	Konkan & Goa	2.96 ***	6.26
20	Madhya Maharashtra	0.07	1.69
21	Marathwada	-0.19	-2.05
22	Vidarbha	-0.35	1.78
23	Chhattisgarh	-1.13 ***	2.96
24	Coastal Andhra Pradesh	0.56 ***	0.56
25	Telangana	0.37	-3.37
26	Rayalseema	0.23	0.09
27	Tamil Nadu & Pondicherry	-0.10	-1.51
28	Coastal Karnataka	1.72 **	-8.49
29	North Interior Karnataka	-0.06	-2.00
30	South Interior Karnataka	0.24	0.18
31	Kerala	-1.27 *	-5.96

*, ** and *** significant at 10%, 5% and 1% level