भारत मौसम विज्ञान विभाग
(पृथ्वी विज्ञान मंत्रालय)
India Meteorological Department
(Ministry of Earth Sciences)

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सत्यमेव जयते

भारत के वर्षा आंकडे – 2019
RAINFALL STATISTICS OF INDIA - 2019

Annual Rainfall (mm)

CATEGORYWISE NO. OF SUBDIVISIONS	
ANNUAL (JAN to DEC) -2019 (UPDATED)	
L. EXCESS	2
EXCESS	10
NORMAL	21
DEFICIENT	3
L. DEFICIENT	0
NO RAIN	0

All India Area Weighted Rainfall (mm.)		
Actual	Normal	% Departure
1288.8	1176.9	10

तैयार किया

बी पी यादव, राहुल सक्सेना, डॉ अशोक कुमार दास एवं एस के माणिक

सहयोग

देवेन्द्र शर्मा, अशोक कुमार, रामेश्वर राम, मनवीर सिंह, श्रीमती मालनी ठाकुर, श्रीमती सुषमा सिंह, दीपक यादव, पी के गुप्ता एवं पी के पांचाल

भारत के वर्षा आंकड़े -2019
Rainfall Statistics of India – 2019

written by

बी.पी. यादव, राहुल सक्सेना, डॉ अशोक कुमार दास, एस.के. माणिक एवं अशोक राजा एस के

B. P. Yadav, Rahul Saxena, Dr. Ashok Kr. Das, S. K. Manik and Asok Raja S. K.

Supported by

Foreword

It gives me immense pleasure that Hydromet Division of India Meteorological Department has prepared 'Rainfall Statistics of India – 2019'.

Realtime monitoring of rainfall is a very important activity of IMD. The realtime rainfall products are a very useful input for the benefit of society as well as to the weather forecasters. The report contains the details rainfall information in the daily, weekly, monthly, seasonal and anuual scale for the districts, states, met sub divisions, four homogeneous regions and for the country with new rainfall normals 1961-2010. The products are available in the form of tabular, graphical and in map. This publication is very important for the Policy Makers, Agriculturists, Planners, Research Scholars, flood forecasters and many more.

This report is an outcome of sincere and consistent effort of all the team members of Hydromet Division, IMD. I take this opportunity to express my appreciation to Dr. M. Mohapatra, DGM, Shri B. P. Yadav, Head, Hydromet Division and their team for putting their best efforts in brings out this valuable publication successfully.

Dr. M. Rajeevan

Secretary

Ministry of Earth Sciences

<u>Foreword</u>

Rainfall is the primary source of water and is of great importance for India's Economy, specially in agriculture sector. It is highly variable over space and time, leads to flood and drought every year in one or the other part of the country. Rainfall statistics is therefore required by the Policy Makers, Planners, Design Structure Engineers, Agriculturists, Hydrologists, Research Scholars and many more for proper management of water resources and its efficient use. Keeping in view the usefulness of rainfall statistics, the publication of rainfall statistics on annual basis was started 2012 onwards.

It gives me immense pleasure to present the 'Rainfall Statistics of India – 2019' based on the rainfall received during the year and its comparison with normal rainfall based on the rainfall records for the period from 1951-2000.

I appreciate the authors for their painstaking efforts in bringing out this publication.

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DR.M. MOHAPATRA
DIRECTOR GENERAL OF METEOROLOGY
INDIA METEOROLOGICAL DEPARTMENT

</div>

Preface

India Meteorological Department is using the rainfall data received from a network of more than 3700 rain-gauge stations which are under District wise Rainfall Monitoring Sheme (DRMS) on real time and prepares the rainfall statistics, both in tabular as well as in map/graphical form. The statistics is prepared for the administrative zones like districts, states and for the country. The statistics is also prepared for the 36 Meteorological Subdivisions and for the four broad regions (North West India, Central India, South Peninsula and, North & North East) of India. The rainfall is prepared at various temporal scales viz., weekly, monthly, seasonal and annual basis. Besides this, the hydromet division of IMD also monitors the Meteorological Subdivisional rainfall on daily basis during the Southwest Monsoon season for the whole country and during Northeast Monsoon (Post-Monsoon) season for South Peninsula Region. Although, the current real-time rainfall products are uploaded on IMD website at http://hydro.imd.gov.in/hydrometweb/, updated statistics is in most demand by various users as it is included additional late receiving station's data in updating the statistics. Hope, this publication containing updated rainfall statistics for the year 2018 would be useful for the various stakeholders.

B. P. Yadav, Rahul Saxena, Dr. Ashok Kr. Das, S. K. Manik and Asok Raja S.K.

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Abbreviation used

AWS	Automatic Weather Station
ARG	Automatic Rain Gauge
ORG	Ordinary Rain Gauge
RG	Rain Gauge
AERO	Aerodrome Observatory
mm	Millimeter
IAF	Indian Air Force
SW	South West
NE	North East
NW	North West
E & NE	East & North East
MET	METEOROLOGICAL
UT	UNION TERRITORY
JJAS	June, July, August and September
U.P.	Uttar Pradesh
N.I. K.	North Interior Karnataka
S.I.K.	South Interior Karnataka
NMMT	Nagaland, Manipur, Meghalaya and Tripura
A & N Islands	Andaman & Nicobar Islands

1. *INTRODUCTION*

Rainfall is highly variable in time and space. Over 75% of the annual rainfall is received in the four rainy months for June to September only there by leading to large variations on temporal scale. The average annual rainfall is 119 cm, but it has great spatial variations. The areas on the Western Ghats and the Sub-Himalayan areas in North East and Meghalaya Hills receive heavy rainfall of over 250 cm annually, whereas the Areas of Northern parts of Kashmir and Western Rajasthan receive rainfall less than 40 cm. The network using which the normal rainfall was computed have been depicted in Figure 1. Rainfall Normals have been computed using rainfall records of 50 years (1961-2010) of a network of 3800 Stations all over the India. Three sub-divisions manely Coastal Andhra Pradesh, Tamilnadu & Puducherry and Kerala were renamed as "Coastal Andhra Pradesh and Yanam", "Tamilnadu, Puducherry and Karaikal" and "Kerala and Mahe". The two significant features of India's rainfall are that, in the north India, rainfall decreases westwards and in the Peninsular India, it decreases eastwards and then increases in the coastal region.

Figure 1: Network of Raingauges
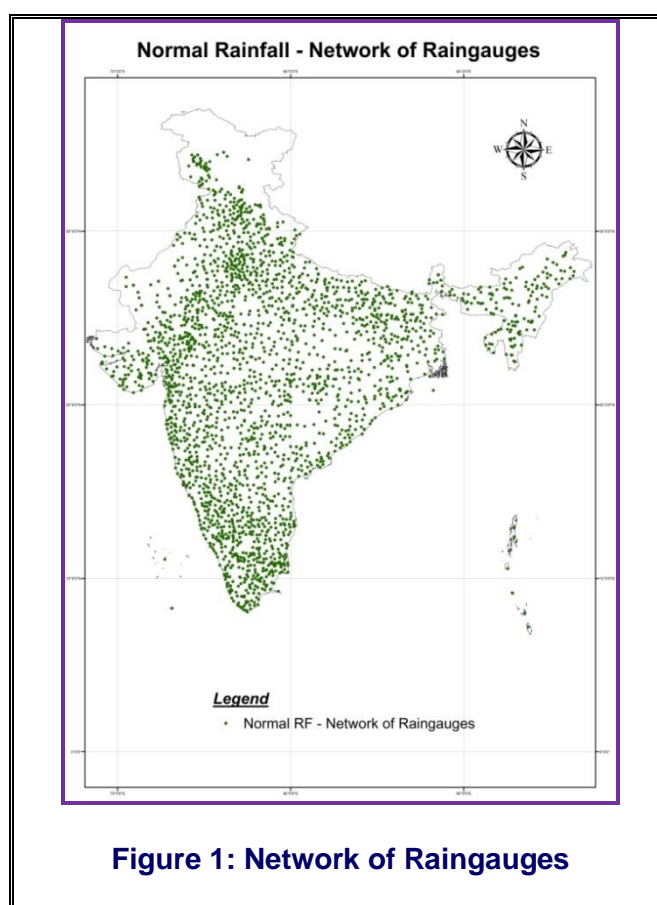
2. *METHODOLOGY*

The rainfall statistics is computed based on the receipt of rainfall data from about 3500 stations spread over the entire country. Based on daily rainfall data of these stations, the rainfall of all the districts is computed and using the rainfall of the districts, rainfall statistics for the Meteorological (Met.) Subdivisions, states, the four broad regions and for the whole country have been computed. The present publication includes the updated rainfall statistics for the country as a whole, for all the four broad regions of India, 36 Met.Subdivisions, all States and UTs and 681 Districts of India. The statistics is provided on monthly, 4 seasons i.e. Winter (Jan-Feb), Pre-Monsoon (Mar-May), Southwest (SW) Monsoon (Jun-Sep) and Post-Monsoon (Oct-Dec), and on annual basis. The Rainfall

RAINFALL STATISTICS FOR THE COUNTRY & BROAD REGIONS

Normals used in this report are based on the rainfall records for the period from 1961-2010. Percentage departure of rainfall from Rainfall Normals, besides these statistics, have been color coded as per their categories. The list of categories, their corresponding ranges and color codes is given in Table 1.

Table 1. The list of categories, their corresponding ranges and color codes

Category	Departure from Normals	Colour Code
Large Excess (LE)	60% or more	
Excess (E)	20% to 59%	
Normal (N)	-19% to +19%	
Deficient (D)	-20% to -59%	
Large Deficient (LD)	-60% to -99%	
No Rain	-100%	
No Data	Data Not Available	

3. *RAINFALL STATISTICS FOR THE COUNTRY & BROAD REGIONS*

3.1   SEASONAL & ANNUAL

The annual rainfall received by the country was 110% (128.9cm) of its normal rainfall of 118.7 cm. All India rainfall for SW monsoon season 2019 was also 110% (97.2 cm) of its normal rainfall of 89 cm. The region-wise and the country's seasonal and annual actual observed rainfall are given in Table 2 and percentage departure from normal rainfall are given in Table 3. It may be observed that % departure of actual observed rainfall both for the year and for SW Monsoon season was positive for the country as a whole. Central India showed maximum sw-monsoon rainfall with +29% departures from Normal totaling 1263.2 mm.

While region wise both annually and during SW Monsoon season, Central India and South Peninsula have positive % Departures from Normal, it was –ve % departures from Normal for East and NorthEast region.

South Peninsula India experienced the highest negative % departure (-46%) of observed rainfall during Pre-Monsoon season and NorthWest India had highest positive % departure of observed rainfall (55%) during the Winter season.

Table 2: Region-wise seasonal and annual rainfall (mm) - Year 2019

REGIONS	WINTER	PRE-MONSOON	SW MONSOON	POST-MONSOON	ANNUAL
COUNTRY AS A WHOLE	51.5	102.1	971.8	161.1	1288.8
NORTH WEST INDIA	122.2	78.4	595.4	99.7	895.5
CENTRAL INDIA	11.4	32.2	1263.2	124.3	1448.2
SOUTH PENINSULA	13.0	65.3	841.0	322.4	1241.6
EAST & NORTH EAST INDIA	47.6	341.2	1243.8	158.0	1769.3

Table 3: % Departure of region-wise seasonal and annual rainfall - Year 2019

REGIONS	WINTER	PRE-MONSOON	SW MONSOON	POST-MONSOON	ANNUAL
COUNTRY AS A WHOLE	26%	-22%	10%	30%	10%
NORTH WEST INDIA	55%	-31%	-1%	78%	6%
CENTRAL INDIA	-25%	-14%	29%	64%	31%
SOUTH PENINSULA	-20%	-46%	16%	16%	4%
EAST & NORTH EAST INDIA	-9%	-9%	-12%	-5%	-12%

RAINFALL STATISTICS FOR THE COUNTRY & BROAD REGIONS

3.2   MONTHLY RAINFALL

The observed monthwise cumulative rainfall and monthly % departure from normal, for the country and for four broad regions of the country are given at Table (4) and and Table (5) respectively. The country as a whole received maximum rainfall in the month of August as 299.9 mm and minimum in the month of Jan as 18.5 mm. Regionwise, the maximum monthly cumulative rainfall of 481.9 mm rainfall was received in July in East and NorthEast India. Minimum monthly cumulative rainfall is 3.0 mm in February in South Peninsula region.,

Comparing % departures of monthly observed rainfall from monthly normals, comparison shows that that, maximum positive departure of 303% was recorded in NorthWest India in the month of November, where as the maximum negative departure (-78 %) in the month of January in East and NorthEast india. It may be observed (Table 5) that the country as a whole received normal to excess rainfall for all the months except March, April and June when the rainfall was deficient.

Table 4: Region-wise actual monthly rainfall (mm) - Year 2019

REGIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
COUNTRY AS A WHOLE	18.5	33.1	18.7	31.5	51.3	113.5	298.8	299.9	259.5	110.1	31.6	19.2
NORTH WEST INDIA	46.5	75.7	26.1	23.2	28.9	53.1	213.8	207.2	121.0	22.3	47.9	29.3
CENTRAL INDIA	4.7	6.7	7.5	10.3	14.3	117.4	350.8	427.7	367.3	106.9	12.4	5.0
SOUTH PENINSULA	10.0	3.0	4.1	24.5	36.7	112.3	194.3	296.1	238.2	238.1	49.4	34.9
EAST & NORTH EAST INDIA	4.0	44.0	46.4	101.0	190.4	223.1	481.9	213.6	325.1	128.6	18.3	10.5

Table 5: % Departure of region-wise monthly rainfall - Year 2019

REGIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
COUNTRY AS A WHOLE	7%	41%	-38%	-20%	-17%	-32%	5%	16%	52%	45%	4%	11%
NORTH WEST INDIA	38%	67%	-45%	-27%	-17%	-29%	1%	2%	11%	-3%	303%	40%
CENTRAL INDIA	-37%	-13%	-11%	14%	-29%	-31%	9%	39%	107%	100%	-21%	-25%
SOUTH PENINSULA	21%	-62%	-72%	-27%	-50%	-30%	-10%	57%	49%	54%	-45%	4%
EAST & NORTH EAST INDIA	-78%	30%	-27%	-19%	1%	-36%	12%	-38%	14%	0%	-26%	-19%

3.3   SOUTHWEST MONSOON – 2019

The rainfall statistics for the Monsoon season and individual months for the country as a whole is given at Table 6 and graphically represented in Figure 2. Monthly (JJAS) & seasonal observed and and the % departure of observed rainfall from their normal rainfall have been depicted in Figure 3. For the SW Monsoon season 2019, country as a whole received Normal rainfall (10% departure from Normal). Monthwise , the country was in deficienct category (- 32%) in June month, normal category in the month of July and August (5% & 16% departures) and excess (52%) in the month of Sept. respectively.

RAINFALL STATISTICS FOR THE COUNTRY & BROAD REGIONS

Table 6: Rainfall (mm) for the country: SW Monsoon Season - 2019

MONTH	OBSERVED	NORMAL	% DEPARTURE FROM NORMAL
JUNE	113.5	166.9	-32%
JULY	298.8	285.3	5%
AUGUST	299.9	258.2	16%
SEPTEMBER	259.5	170.2	52%
SW MONSOON	971.8	880.6	10%
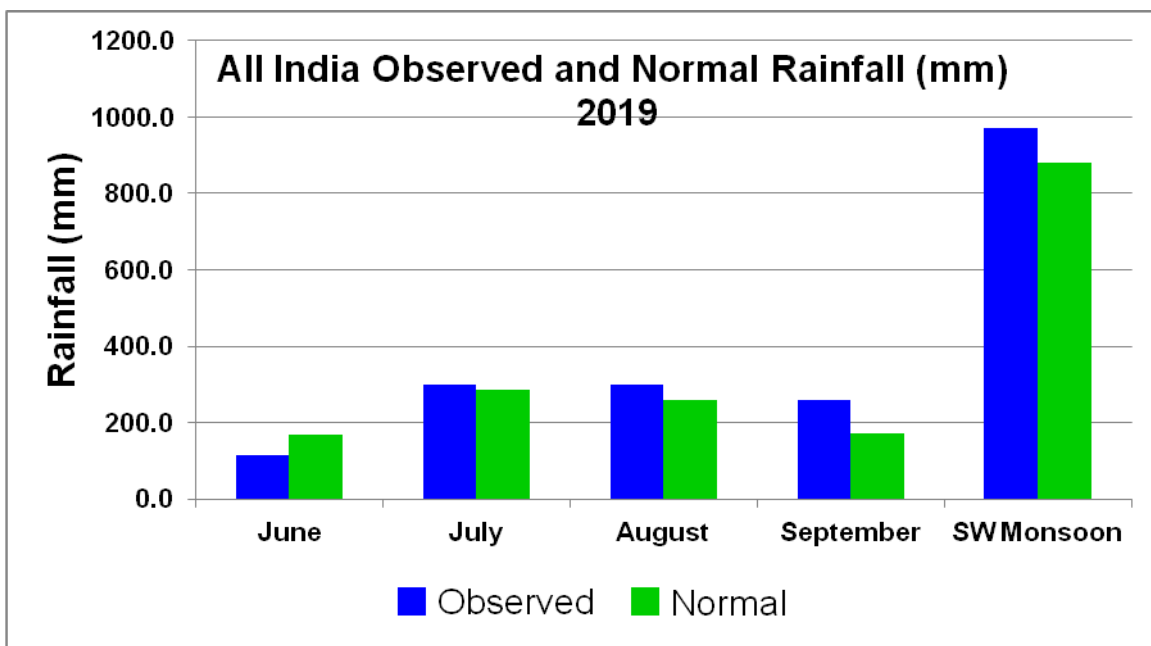
Figure 2: All India Rainfall – SW Monsoon 2019
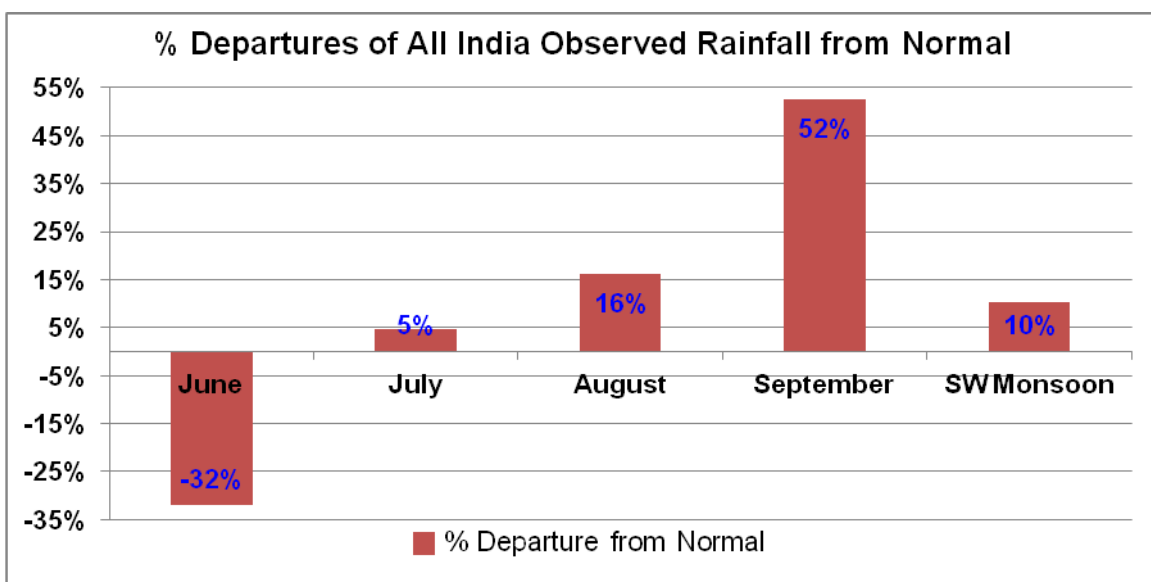
Figure 3: Percent Departure of All India Rainfall – SW Monsoon 2019

3.4   REGION-WISE DAILY RAINFALL SERIES – SW MONSOON 2019

Realtime daily rainfall (in mm) and its long term (1961-2010) normal value for the country as a whole and for the four homogeneous regions during 1 June to 30 September are shown in Figure 4 to 8. For the country as a whole, daily averaged observed rainfall was below normal on most days in June month. It remained normal to above normal on some days of July month. The average daily rainfall remained above normal during many days in the month of August and most of the days in September. The temporal distribution of SW Monsoon rainfall of the country at Figure 4 shows that the rainfall was good throughout the season but there were two long deficient rainfall spells of more than 10 days during 05 June to 01 July and 13 July to 24 July for the country as a whole.
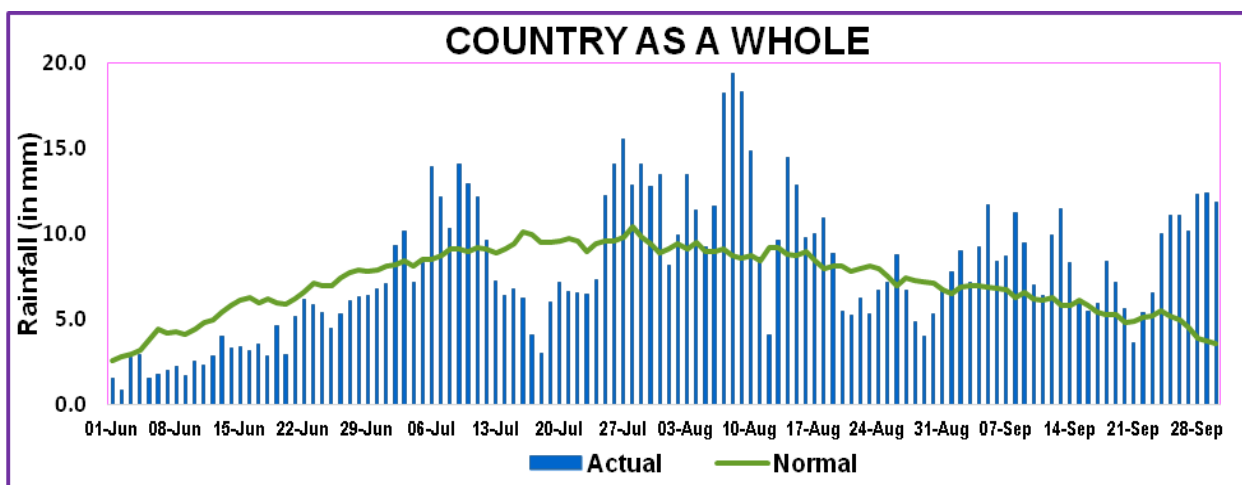
Figure 4: All India Rainfall - SW Monsoon Rainfall Distribution – 2019
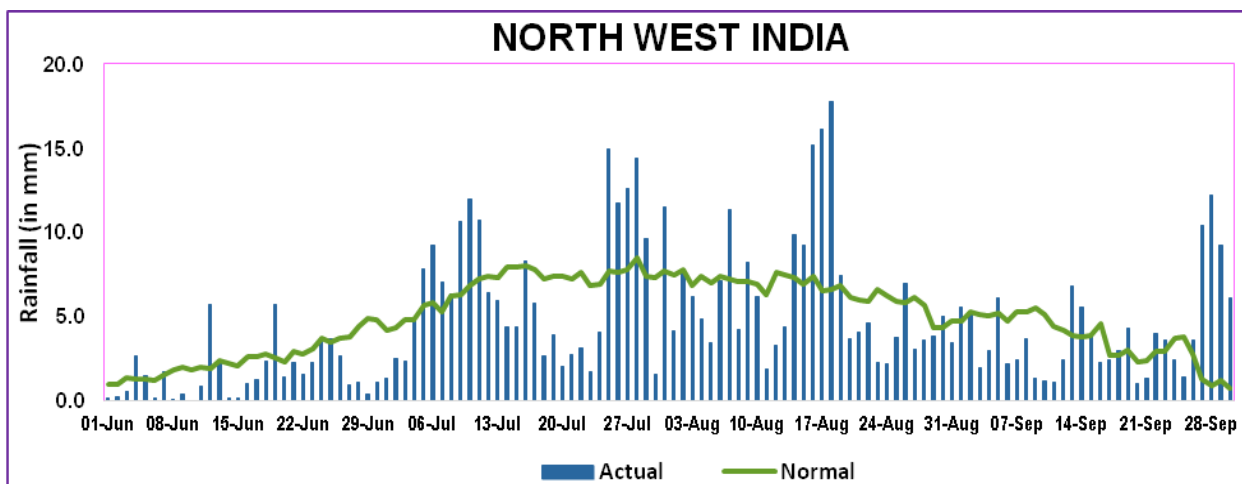
Figure 5: North West India - SW Monsoon Rainfall Distribution – 2019

RAINFALL STATISTICS FOR THE COUNTRY & BROAD REGIONS
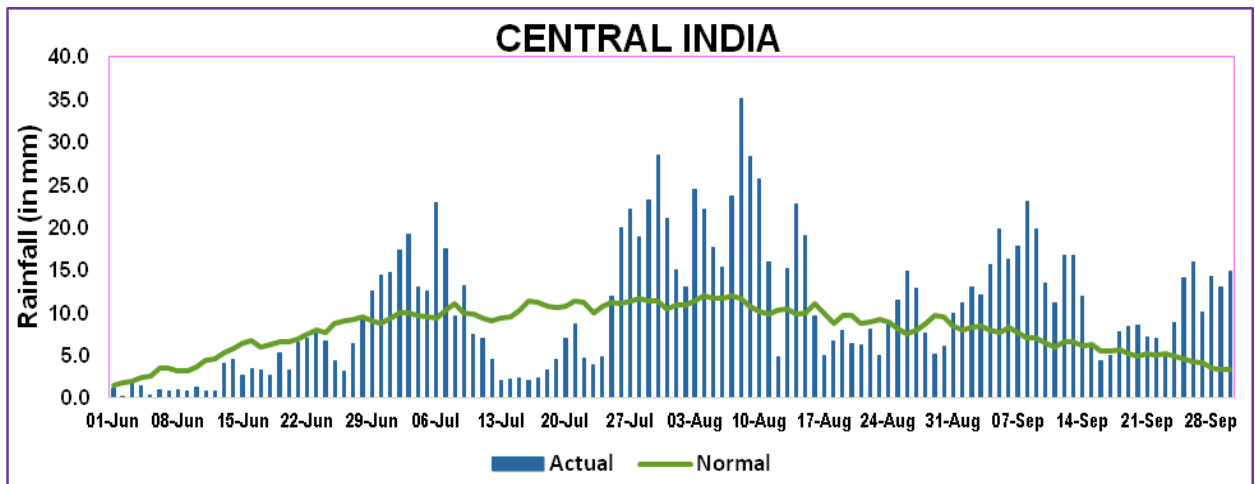
Figure 6: Central India - SW Monsoon Rainfall Distribution – 2019
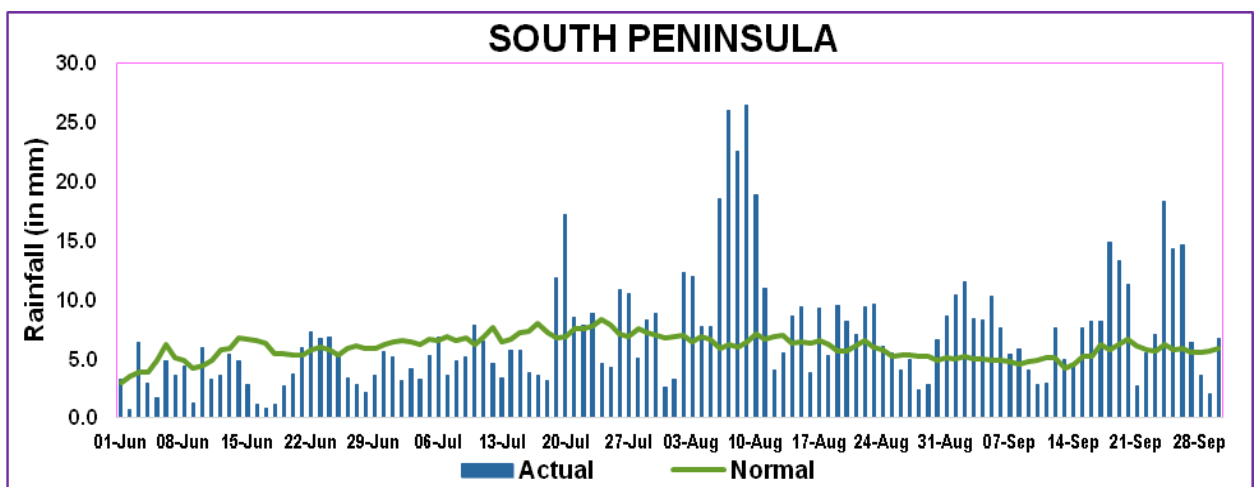
Figure 7: South Peninsula - SW Monsoon Rainfall Distribution – 2019
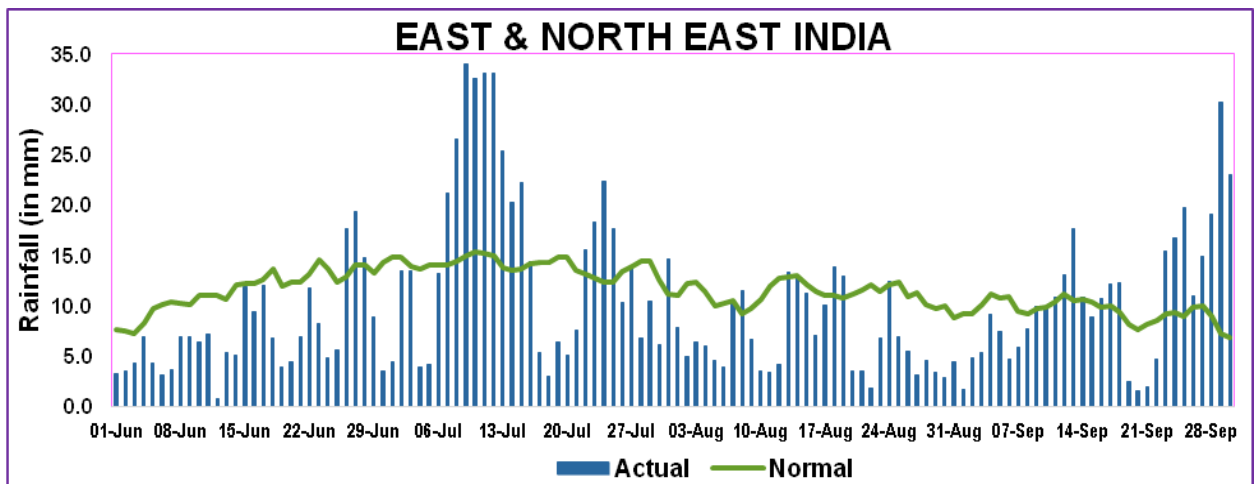
Figure 8: East & North East India - SW Monsoon Rainfall Distribution – 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

4.1   STATIONS WITH HEAVIEST ONE DAY RAINFALL

Stations recording heaviest 1-day rainfall during SW Monsoon season 2019 in each of the Met.Subdivision along with their date of observation have been given below in Table 7 in descending order of rainfall and has also been depicted on the map at Figure 9. It may be seen that UMERPADA which lies in GUJARAT REGION recorded the heaviest one-day rainfall of 587.0 mm on 05th August 2019, where as lowest of the one-day rainfall of 140.0 mm 24th September, 2019 was recorded at BEED station in MARATHAWADA Met. Subdivision.

Table 7: Met. Subdivision-wiseHeaviest One Day Rainfall - SW Monsoon 2019

Met. Subdivision	Station	District	Rainfall (mm)	Date of Obsn.
GUJARAT REGION	UMERPADA	SURAT	587	05-Aug-19
S. I. KARNATAKA	KOTTIGEHARA	CHIKMAGALUR	572	10-Aug-19
ODISHA	BOLANGIR	BOLANGIR	555	14-Aug-19
KONKAN & GOA	PEN	RAIGAD	493	04-Aug-19
ASSAM & MEGHALAYA	MAWSYNRAM	EAST KHASI HILLS	444.2	10-Jul-19
BIHAR	BAGAHA	WEST CHAMPARAN	430	22-Jun-19
SHWB & SIKKIM	ALIPURDUAR (CWC)	JALPAIGURI	405.4	26-Jun-19
KERALA	ALATHUR	PALAKKAD	398.5	09-Aug-19
MADHYA MAHARASHTRA	TRIMBAKESHWAR	NASHIK	396	05-Aug-19
SAURASHTRA & KUTCH	ARVALA	BOTAD	380	10-Aug-19
TAMIL., PUDU., & KARAIKAL	CHINNAKALAR	COIMBATORE	372	09-Aug-19
HIMACHAL PRADESH	NAINA DAVI	BILASPUR	360	18-Aug-19
JAMMU & KASHMIR	DHAMPUR(IAF)	UDHAMPUR	342	31-Jul-19
WEST UTTAR PRADESH	BAHERI	BAREILLY	315	25-Jun-19
EAST MADHYA PRADESH	SEONI-AWS	SEONI	313.4	09-Sep-19
COASTAL KARNATAKA	SUBRAMANYA	DAKSHIN KANNADA	312.6	10-Aug-19
A & N ISLAND	LONG ISLAND	NORTH & MIDDLE ANDAMAN	308	13-Jun-19
CHHATTISGARH	DEOBHOG	GARIABAND	304	08-Aug-19
EAST UTTAR PRADESH	JAUNPUR TEHSIL	JAUNPUR	303.6	28-Sep-19
EAST RAJASTHAN	BEGU SR	CHITTORGARH	302	16-Aug-19
VIDARBHA	BHIWAPUR	NAGPUR	290	07-Sep-19
JHARKHAND	RAJMAHAL	SAHIBGANJ	280.4	30-Sep-19
WEST RAJASTHAN	PALI	PALI	276	16-Aug-19
UTTARAKHAND	BANBASA	CHAMPAWAT	271.1	06-Aug-19
N. I. KARNATAKA	LONDA	BELGAM	271	08-Aug-19
PUNJAB	BALACHAUR	NAWANSHAHAR	265.1	18-Aug-19
WEST MADHYA PRADESH	THANDLA	JHABUA	252.8	05-Aug-19
GANGETIC WEST BENGAL	KHARAGPUR(I.I.T)	WEST MIDNAPORE	247	26-Aug-19
N M M T	PAREN	PAREN	218.6	28-Aug-19
TELANGANA	NALGONDA	NALGONDA	218.6	18-Sep-19
COASTAL A. P. & YANAM	CHINTUR	EAST GODAVARI	210.4	07-Aug-19

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

Met. Subdivision	Station	District	Rainfall (mm)	Date of Obsn.
HAR. CHD & DELHI	NARAINGARH	AMBALA	185	14-Aug-19
ARUNACHAL PRADESH	TEZU	LOHIT	184.6	19-Aug-19
RAYALASEEMA	RUDRAVARAM	KURNOOL	180	16-Sep-19
LAKSHADWEEP	AMINI	LAKSHADWEEP	140.6	18-Jul-19
MARATHWADA	BEED	BEED	140	24-Sep-19
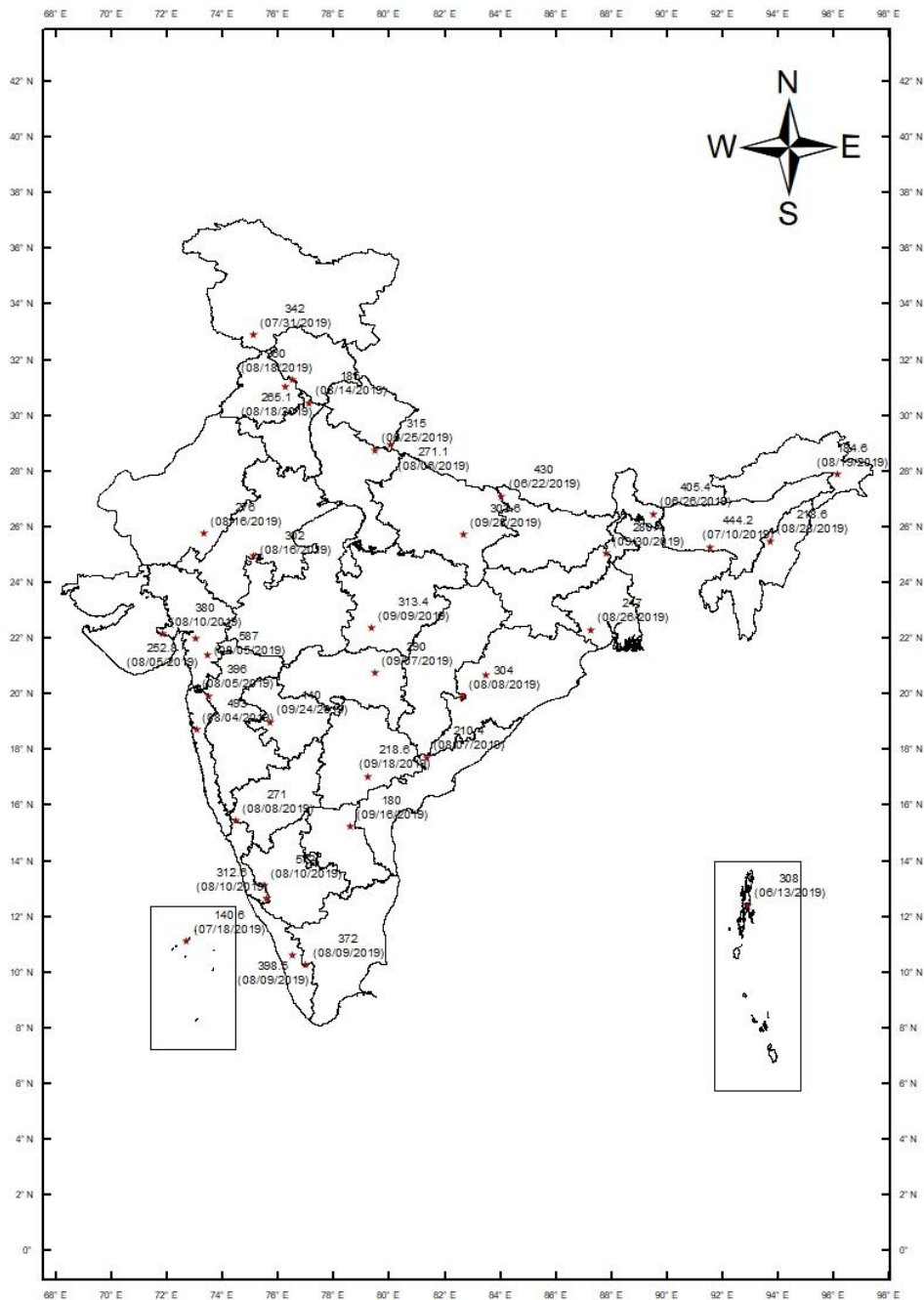
Figure 9: Heaviest 1 Day Rainfall (mm) in each Met. Subdivision of India

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

4.2   SEASONAL & ANNUAL

Seasonal and annual observed rainfall statistics during the year 2019 for all the 36 Met. Subdivisions and percentage departure of rainfall from normal has been given in Table 8 & 9 respectively. It may be observed from annual rainfall that Konkan & Goa received highest annual rainfall of **4730.8** mm and Haryana,Chandigarh & Punjab received lowest annual rainfall of **356.8** mm.

During the SW Monsoon season also Konkan & Goa received highest seasonal rainfall of **4385.8** mm While Haryana, Chandigarh & Delhi subdivision received lowest seasonal rainfall of **258.6** mm. On comparing the annual rainfall with normals, it may be observed that, most of the Met. Subdivisions remained in Normal to Excess Category, Only two Met subdidivis were in Large Excess rainfall category. Three met subdivisions namely NMMT, West-UttarPradesh and Haryana, Chandigarh & Delhi were under Deficient category. None of the Met. Subdivisions however were in Large Deficient category during Monsoon-2019.

Seasonally also, most of the Met Subdivision remained in Normal to excess Category. Two Met subdivisions West MP and Saurashtra & Kutch were in Large excess category. NMMT, West Uttar Pradesh and Haryana, Chandigarh & Delhi were found to be in deficient rainfall category.

Table 8: Met. Subdivision-wise seasonal and annual rainfall (mm) - Year 2019

S. No	METEOROLOGICAL SUBDIVISION	Winter	Pre Monsoon	SW Monsoon	Post Monsoon	Annual
EAST & NORTH EAST INDIA		**47.6**	**341.2**	**1243.8**	**158.0**	**1769.3**
1	ARUNACHAL PRADESH	95.7	573.4	1541.4	151.3	2433.3
2	ASSAM & MEGHALAYA	28.9	659.6	1567.7	204.8	2306.3
3	N M M T	28.2	310.1	1133.2	194.2	1639.3
4	SHWB & SIKKIM	40.4	431.4	1882.6	118.3	2472.7
5	GANGETIC WEST BENGAL	90.0	221.3	952.4	256.6	1520.3
6	JHARKHAND	25.6	110.3	858.9	143.0	1137.8
7	BIHAR	30.8	69.3	1049.4	42.2	1194.7
NORTH WEST INDIA		**122.2**	**78.4**	**595.4**	**99.7**	**895.5**
1	EAST U.P.	33.5	9.7	852.4	47.7	931.6
2	WEST U.P.	43.8	18.1	523.8	52.1	638.0
3	UTTARAKHAND	201.8	101.1	961.8	114.2	1378.9
4	HAR. CHD & DELHI	32.7	36.7	258.6	28.3	356.8
5	PUNJAB	101.2	54.2	434.5	63.3	653.2
6	HIMACHAL PRADESH	279.3	134.5	683.0	120.9	1217.7
7	JAMMU & KASHMIR	356.9	219.3	486.5	254.6	1324.1
8	WEST RAJASTHAN	7.1	32.6	316.1	48.1	403.9
9	EAST RAJASTHAN	8.2	26.5	920.6	38.5	993.9
CENTRAL INDIA		**11.4**	**32.2**	**1263.2**	**124.3**	**1448.2**
1	ODISHA	24.2	148.6	1232.5	188.6	1593.9
2	WEST MADHYA PRADESH	6.6	13.3	1383.0	68.5	1471.4
3	EAST MADHYA PRADESH	20.5	24.6	1309.7	59.9	1414.6
4	GUJARAT REGION	0.4	1.1	1193.4	83.8	1278.7
5	SAURASHTRA & KUTCH	1.2	0.4	839.7	64.2	905.5
6	KONKAN & GOA	0.0	0.7	4385.8	283.6	4730.8
7	MADHYA MAHARASHTRA	0.0	10.1	1166.9	228.6	1550.9
8	MARATHWADA	0.3	5.2	590.7	257.4	854.2
9	VIDARBHA	12.3	6.9	1058.8	69.8	1147.8

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

S. No	METEOROLOGICAL SUBDIVISION	Winter	Pre Monsoon	SW Monsoon	Post Monsoon	Annual
10	CHHATTISGARH	25.8	32.6	1255.7	106.2	1420.3
	SOUTH PENINSULA	13.0	65.3	841.0	322.4	1241.6
1	A & N ISLAND	179.6	282.0	2331.3	293.0	3086.0
2	COASTAL A. P.& YANAM	11.9	57.5	641.5	300.7	1011.5
3	TELANGANA	24.6	27.6	806.9	172.6	1031.7
4	RAYALASEEMA	14.0	44.9	460.0	225.4	744.3
5	TAMIL., PUDU. & KARAIKAL	4.8	51.5	401.9	453.3	911.4
6	COASTAL KARNATAKA	0.3	45.0	3787.7	581.9	4414.9
7	N. I. KARNATAKA	0.8	42.8	611.6	245.0	900.1
8	S. I. KARNATAKA	8.5	114.5	839.1	306.7	1268.7
9	KERALA & MAHE	13.1	169.6	2310.0	626.8	3119.2
10	LAKSHADWEEP	28.1	37.9	1227.0	850.0	2143.0
	COUNTRY AS A WHOLE	51.5	102.1	971.8	161.1	1288.8

Table 9: % Departure of Met. Subdivision-wise seasonal and annual rainfall

S. No.	METEOROLOGICAL SUBDIVISION	Winter	Pre Monsoon	SW Monsoon	Post Monsoon	Annual
	EAST & NORTH EAST INDIA	-9%	-9%	-12%	-5%	-12%
1	ARUNACHAL PRADESH	-35%	-26%	-11%	-43%	-16%
2	ASSAM & MEGHALAYA	-38%	12%	-12%	4%	-11%
3	N M M T	-25%	-36%	-21%	-12%	-24%
4	SHWB & SIKKIM	-12%	-3%	-4%	-34%	-6%
5	GANGETIC WEST BENGAL	174%	19%	-19%	64%	-2%
6	JHARKHAND	-9%	32%	-19%	58%	-9%
7	BIHAR	53%	-15%	3%	-42%	0%
	NORTH WEST INDIA	55%	-31%	-1%	78%	6%
1	EAST U.P.	31%	-70%	2%	0%	-1%
2	WEST U.P.	49%	-40%	-27%	59%	-22%
3	UTTARAKHAND	99%	-35%	-18%	89%	-8%
4	HAR. CHD & DELHI	6%	-7%	-42%	40%	-33%
5	PUNJAB	108%	-2%	-7%	141%	9%
6	HIMACHAL PRADESH	45%	-45%	-11%	32%	-6%
7	JAMMU & KASHMIR	58%	-35%	-14%	89%	5%
8	WEST RAJASTHAN	-19%	45%	19%	315%	31%
9	EAST RAJASTHAN	-18%	39%	53%	49%	51%
	CENTRAL INDIA	-25%	-14%	29%	64%	31%
1	ODISHA	-17%	16%	7%	44%	10%
2	WEST MADHYA PRADESH	-47%	3%	61%	35%	58%
3	EAST MADHYA PRADESH	-38%	4%	25%	4%	22%
4	GUJARAT REGION	-75%	-82%	29%	181%	33%
5	SAURASHTRA & KUTCH	18%	-90%	66%	134%	68%
6	KONKAN & GOA	-100%	-98%	53%	103%	55%
7	MADHYA MAHARASHTRA	-100%	-69%	55%	122%	74%
8	MARATHWADA	-95%	-81%	-12%	157%	6%
9	VIDARBHA	-31%	-75%	12%	-14%	7%
10	CHHATTISGARH	21%	-20%	10%	39%	11%

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

S. No.	METEOROLOGICAL SUBDIVISION	Winter	Pre Monsoon	SW Monsoon	Post Monsoon	Annual
	SOUTH PENINSULA	-20%	-46%	16%	16%	9%
1	A & N ISLAND	138%	-40%	41%	-57%	7%
2	COASTAL A. P.& YANAM	-47%	-42%	9%	-11%	-3%
3	TELANGANA	71%	-53%	6%	40%	8%
4	RAYALASEEMA	73%	-45%	12%	1%	3%
5	TAMIL., PUDU. & KARAIKAL	-83%	-59%	18%	1%	-3%
6	COASTAL KARNATAKA	-89%	-71%	22%	127%	26%
7	N. I. KARNATAKA	-85%	-47%	23%	77%	25%
8	S. I. KARNATAKA	46%	-18%	23%	50%	23%
9	KERALA & MAHE	-42%	-53%	13%	27%	7%
10	LAKSHADWEEP	12%	-81%	21%	164%	37%
	COUNTRY AS A WHOLE	26%	-22%	10%	30%	10%

4.3   CATEGORY-WISE SEASONAL AND ANNUAL

Annual rainfall statistics for the year 2019 show that, 2 Met. Subdivisions remained in Large Excess, 10 in Excess and 21 in Normal category of rainfall while 3 Met. Subdivision remained in Deficient category of rainfall. The category wise statistics and chart for seasonal distribution of no. of Met. Subdivisions have been given in Table 10 and Figure 10 respectively.

Table 10: Categorywise number of Met. Subdivisions - seasonally and annually

CATEGORY	WINTER	PRE-MONSOON	SW MONSOON	POST-MONSOON	ANNUAL
L. EXCESS	6	0	2	13	2
EXCESS	7	3	10	11	10
NORMAL	8	10	21	8	21
DEFICIENT	8	14	3	4	3
L. DEFICIENT	5	9	0	0	0
NO RAIN	2	0	0	0	0
NO DATA	0	0	0	0	0
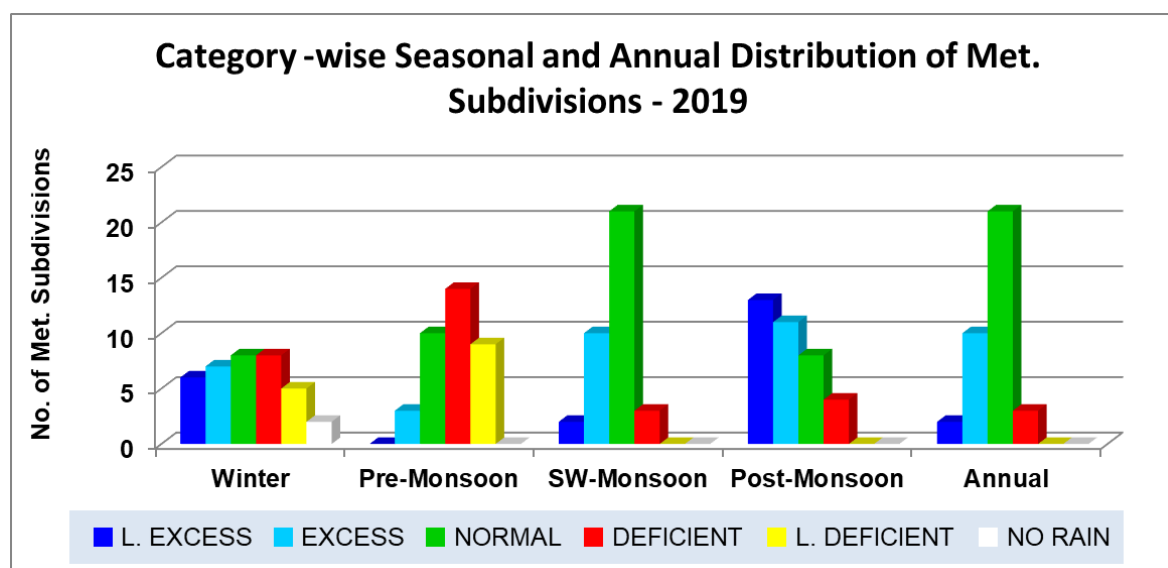
Figure 10: Category-wise Met. Subdivisions – seasonally and annually

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

Percent distribution of Met.Subdivisional area of the country under different categories in the four seasons and for the year has been depicted in Figure 11.
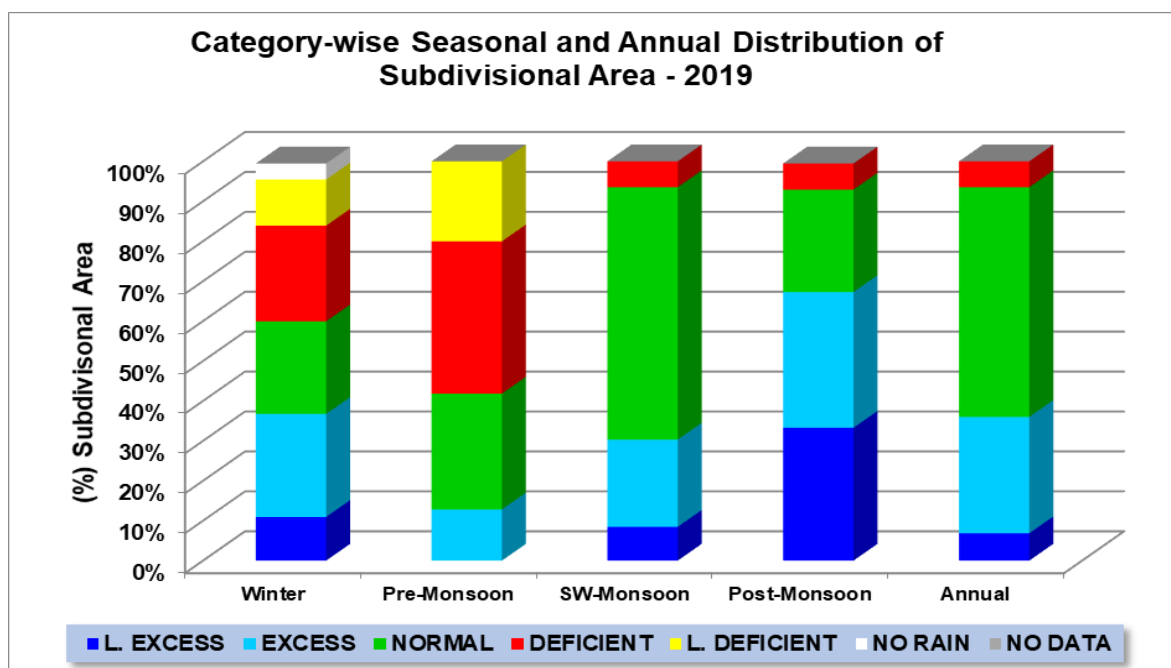
Figure 11: % Area of the Met. Subdivisions under different rainfall categories-Seasonal & Annual

4.4   AREA (%) UNDER RAINFALL DEFICIENCY– SW Monsoon 2019

Area (%) of the 36 Met.Subdivisions of India under different categories of rainfall during SW Monsoon (June-September) have been given below in tabular form in Table 11 and has been depicted in graphical form in Figure 12 as well. Area distribution shows fairly good spatial distribution of Rainfall with 96 % of country area did not report any deficiency of rainfall and only 04% area under moderate deficiency. No area experienced severe deficiency of Rainfall

Table 11: Met. Subdivisional Area (%) under Rainfall Deficiency – SW Monsoon 2019

Deficiency in Rainfall	Deficiency	% Area of Met. Subdivisions of India
< 26 %	No	96%
26 % or more but < 50 %	Moderate	04%
50 % or more	Severe	00%
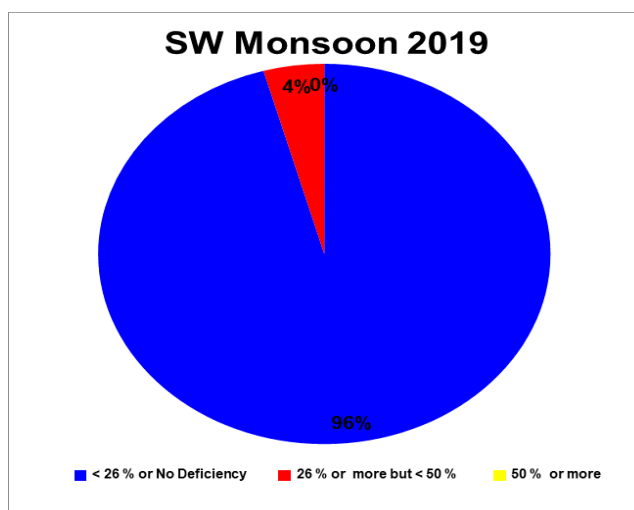
Figure 12: Met. Subdivisional Area (%) under Rainfall Deficiency – SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

4.5   ANNUAL & SEASONAL RAINFALL MAPS

Met.Subdivision-wise rainfall maps for the year 2019 and for the four seasons depicting the observed and normal rainfall values alongwith their percentage departure from normals with defined colors for different categories are given below at Figure 13 to Figure 17.

The normal rainfall values are shown in Bold figures on the map where as the actual rainfall are shown in small figures. Percentage departures of rainfall are shown within the brackets. Annuallly and for the SW-Monsoon season country experienced normal Monsoon with positive % departures from the Normal.Observed rainfall was found to be above Normal during Winter and Post Monsoon season. While Pre Monsoon season was under the deficient category with departures of -22%.

Figure 13: Annual Rainfall Map
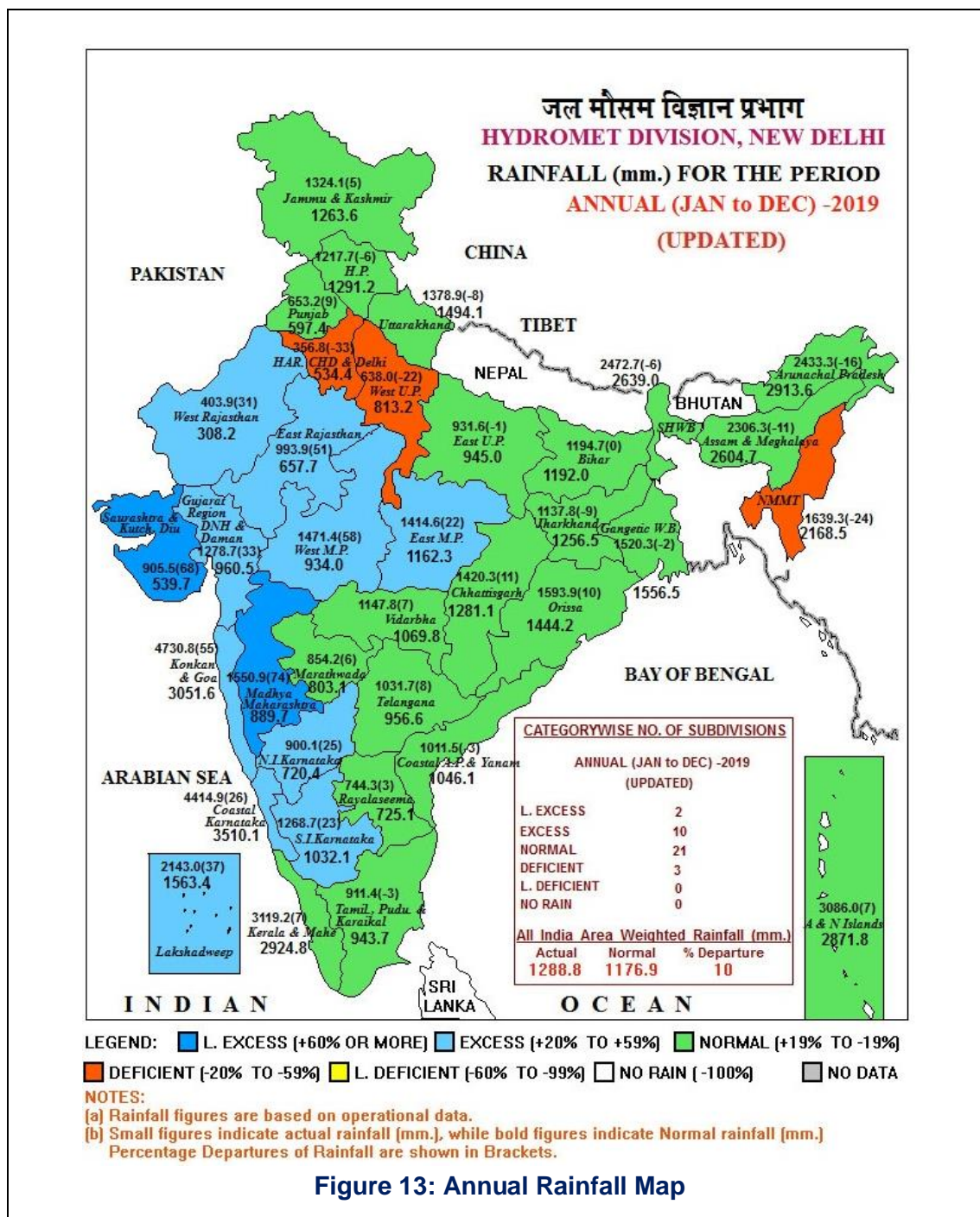
4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
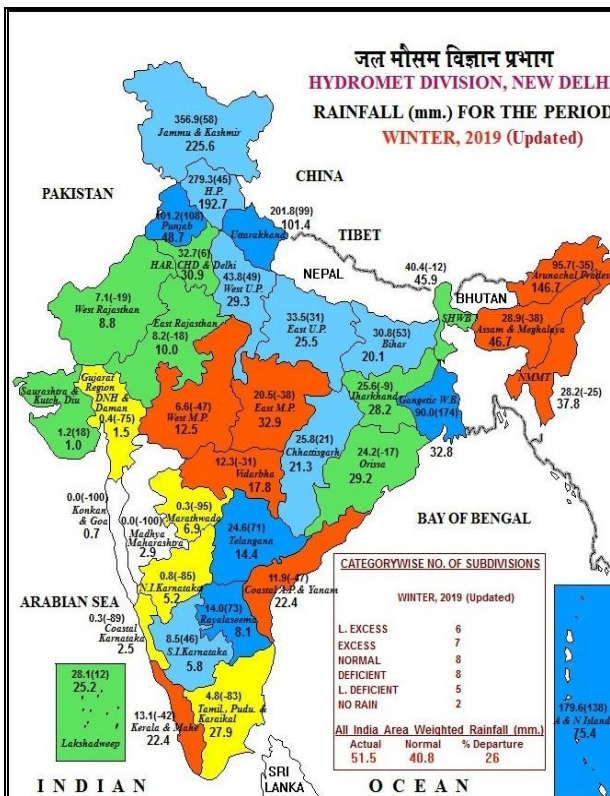
Figure 14: Winter Rainfall Map
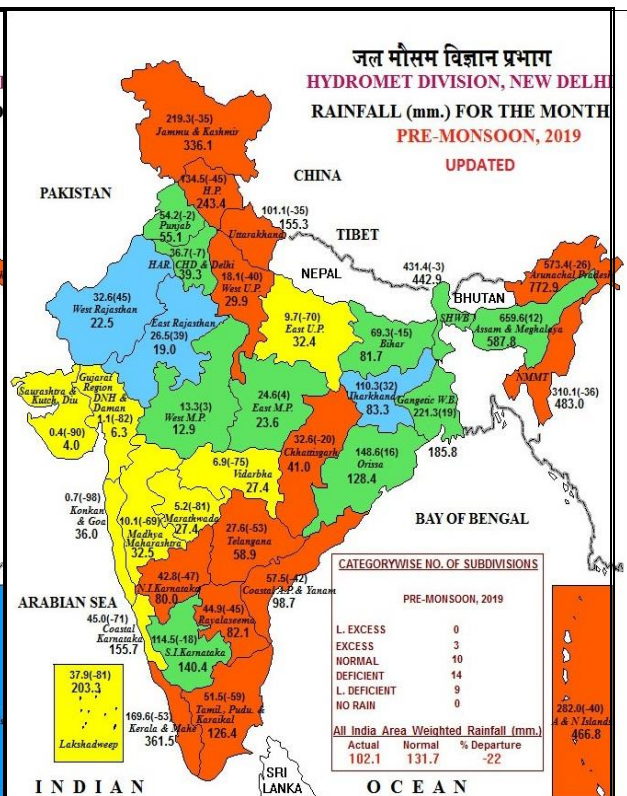
Figure 15: Pre-MonsoonRainfall Map
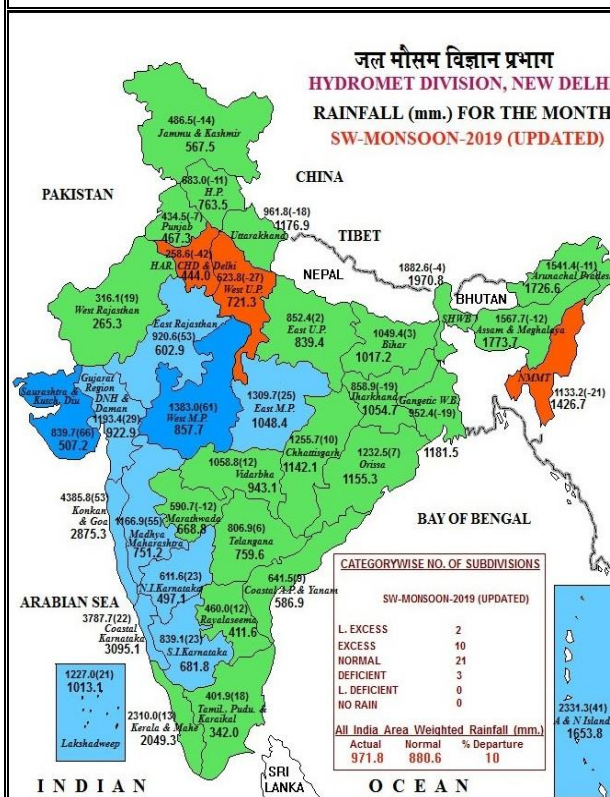
Figure 16: SW Monsoon Rainfall Map
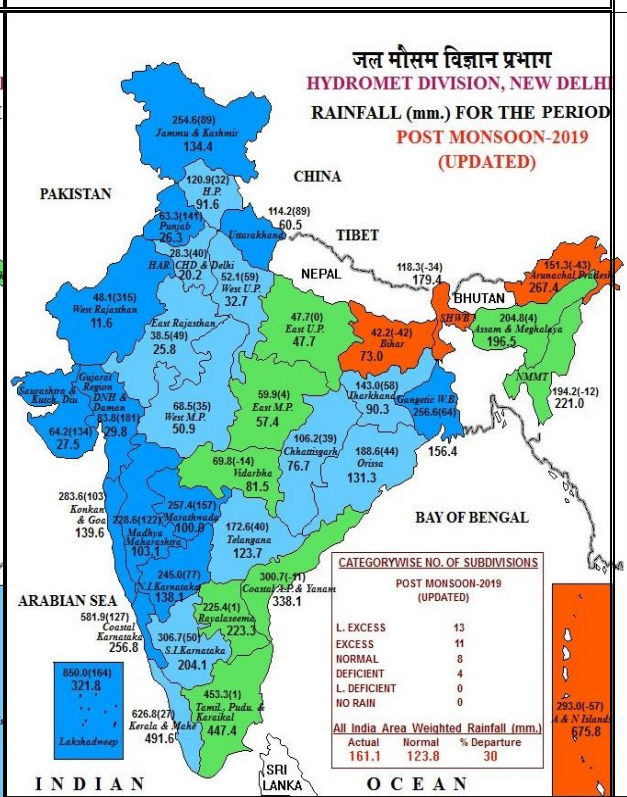
Figure 17: Post-Monsoon Rainfall Map

4.6   MONTHLY RAINFALL STATISTICS

Met. Subdivision-wise monthly observed rainfall and % departure of rainfall from their normal rainfall have been given in Table 12 and Table 13 respectively.

Table 12: Met. Subdivision-wise monthly rainfall (mm) - Year 2019

METEOROLOGICAL SUB-DIVISIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EAST & NORTH EAST INDIA	4.0	44.0	46.4	101.0	190.4	223.1	481.9	213.6	325.1	128.6	18.3	10.5
ARUNACHAL PRADESH	10.8	87.2	127.6	116.8	325.4	323.1	719.9	150.9	347.5	116.7	13.9	17.0
ASSAM & MEGHALAYA	2.5	26.3	45.1	207.9	397.0	381.7	653.4	206.4	326.3	188.5	13.7	2.5
N M M T	3.5	24.7	37.9	109.9	154.7	245.7	443.5	206.6	235.7	149.9	39.3	5.0
SHWB & SIKKIM	4.4	36.0	63.3	132.0	236.1	361.8	765.7	271.9	483.2	107.3	4.5	6.6
GANGETIC WEST BENGAL	0.0	90.0	41.8	61.5	118.0	109.2	214.0	333.3	295.9	183.8	62.7	10.1
JHARKHAND	0.9	24.6	19.0	43.9	47.4	89.3	243.1	260.5	265.9	129.8	0.0	13.2
BIHAR	5.1	25.7	3.1	32.4	33.4	97.8	418.5	140.4	392.7	25.5	0.0	16.6
NORTH WEST INDIA	46.5	75.7	26.1	23.2	28.9	53.1	213.8	207.2	121.0	22.3	47.9	29.3
EAST U.P.	11.6	21.9	4.8	3.0	1.9	52.3	349.1	164.6	286.4	25.1	1.2	20.6
WEST U.P.	16.4	27.0	5.6	7.4	5.1	22.2	219.5	175.6	106.4	9.3	9.8	33.1
UTTARAKHAND	76.3	125.4	33.8	39.5	27.8	84.3	288.8	360.1	228.6	32.0	24.0	58.2
HAR. CHD & DELHI	15.2	17.4	7.7	11.4	17.6	18.6	132.1	85.2	22.7	5.3	12.9	10.1
PUNJAB	28.1	73.1	9.4	23.9	20.9	24.9	183.6	156.4	69.6	9.1	25.8	28.3
HIMACHAL PRADESH	84.7	194.7	60.7	32.5	41.3	55.5	213.9	320.6	93.1	21.8	49.0	50.2
JAMMU & KASHMIR	140.0	216.9	84.6	57.4	76.4	84.3	194.1	163.7	43.1	30.7	158.9	65.0
WEST RAJASTHAN	5.5	1.7	1.6	6.8	24.2	25.2	96.8	140.1	54.0	17.1	27.1	3.9
EAST RAJASTHAN	5.4	2.8	0.8	17.6	8.1	72.8	269.9	384.3	193.5	28.9	5.9	3.7
CENTRAL INDIA	4.7	6.7	7.5	10.3	14.3	117.4	350.8	427.7	367.3	106.9	12.4	5.0
ODISHA	1.3	22.9	24.9	38.9	84.9	146.6	300.7	445.2	339.9	176.1	10.7	1.8
WEST MADHYA PRADESH	1.2	5.5	1.7	9.9	1.7	78.8	376.9	496.9	430.4	55.6	8.4	4.5
EAST MADHYA PRADESH	11.8	8.7	13.5	8.9	2.2	59.5	339.2	464.1	446.9	37.7	0.6	21.7
GUJARAT REGION	0.0	0.4	0.0	1.0	0.2	114.0	264.7	517.4	297.2	68.1	14.5	1.2
SAURASHTRA & KUTCH	0.9	0.3	0.0	0.3	0.1	61.7	130.9	307.6	339.4	39.4	23.0	1.8
KONKAN & GOA	0.0	0.0	0.0	0.4	0.3	642.1	1618.4	1083.6	1041.7	257.1	26.2	0.2
MADHYA MAHARASHTRA	0.0	0.0	1.7	5.3	1.6	123.3	394.8	390.4	258.4	202.3	25.0	1.4
MARATHWADA	0.0	0.3	0.3	4.5	0.6	92.3	146.7	134.1	217.6	227.5	28.2	1.8
VIDARBHA	10.9	1.3	3.8	2.6	0.4	91.8	340.5	321.5	321.5	55.6	11.3	2.9
CHHATTISGARH	14.9	10.9	12.2	8.2	12.3	129.4	369.1	409.1	348.1	100.3	0.7	5.2
SOUTH PENINSULA	10.0	3.0	4.1	24.5	36.7	112.3	194.3	296.1	238.2	238.1	49.4	34.9
A & N ISLAND	173.8	5.8	15.8	35.3	230.9	662.2	212.0	860.4	596.8	136.6	131.9	24.5
COASTAL A. P.& YANAM	10.4	1.5	7.1	22.6	27.8	66.4	170.2	177.4	227.5	252.6	20.2	28.0
TELANGANA	23.2	1.5	2.1	13.9	11.6	85.8	219.9	260.0	241.2	160.3	9.4	3.0
RAYALASEEMA	13.1	0.9	0.1	10.9	33.9	54.4	63.7	110.6	231.2	168.9	20.8	35.6
TAMIL., PUDU. & KARAIKAL	2.1	2.7	3.1	18.5	29.9	33.6	58.8	133.4	176.1	224.6	124.9	103.7
COASTAL KARNATAKA	0.0	0.3	3.5	22.6	18.9	578.5	1196.6	1375.8	636.9	519.6	50.2	12.2
N. I. KARNATAKA	0.8	0.0	4.8	19.6	18.4	108.5	131.3	207.8	163.9	221.0	21.5	2.4
S. I. KARNATAKA	1.1	7.4	2.0	33.0	79.5	102.1	166.3	360.1	210.6	259.2	30.8	16.7
KERALA & MAHE	0.7	12.4	13.9	93.5	62.1	359.0	574.4	950.6	426.0	471.4	119.2	36.3
LAKSHADWEEP	0.0	28.1	4.1	22.4	11.4	242.5	489.4	338.4	156.7	503.4	40.0	306.7
COUNTRY AS A WHOLE	18.5	33.1	18.7	31.5	51.3	113.5	298.8	299.9	259.5	110.1	31.6	19.2

It may be observed (Table 13) that Ourt of 36 Met subdivisions, 19 Met subdivisions in the month of January, 16 Met subdivisions in the month of February, 31 Met subdivisions in the month of March & 30 in month of March & June , 25 Met subdivisions in the month of May, 11 Met subdivisions in the month of July, 9 Met subdivisions in the month of August, 04 Met subdivisions in the month of September, 08 Met subdivisions in the month of October, 20 Met subdivisions in the month of November, 15Met subdivisions in the month of December remained in Deficient/Large Deficient/No-Rain category.

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

Table 13: % Departure of Met. Subdivision-wise monthly rainfall (mm) - Year 2019

METEOROLOGICAL SUBDIVISIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EAST & NORTH EAST INDIA	-78%	30%	-27%	-19%	1%	-36%	12%	-38%	14%	0%	-26%	-19%
ARUNACHAL PRADESH	-77%	-12%	-30%	-62%	13%	-34%	37%	-58%	-1%	-37%	-70%	-54%
ASSAM & MEGHALAYA	-84%	-16%	-42%	7%	25%	-23%	17%	-49%	4%	20%	-51%	-77%
N M M T	-71%	-4%	-43%	-26%	-42%	-38%	14%	-42%	-17%	-9%	-10%	-58%
SHWB & SIKKIM	-73%	20%	14%	5%	-10%	-25%	22%	-43%	27%	-29%	-75%	-34%
GANGETIC WEST BENGAL	-99%	341%	39%	23%	12%	-57%	-36%	6%	7%	44%	193%	37%
JHARKHAND	-92%	54%	26%	124%	-2%	-55%	-25%	-13%	13%	74%	-99%	100%
BIHAR	-49%	154%	-61%	94%	-41%	-42%	20%	-51%	82%	-59%	-100%	208%
NORTH WEST INDIA	38%	67%	-45%	-27%	-17%	-29%	1%	2%	11%	-3%	303%	40%
EAST U.P.	-5%	64%	-29%	-49%	-91%	-52%	24%	-38%	54%	-33%	-70%	227%
WEST U.P.	33%	59%	-39%	37%	-67%	-71%	-10%	-32%	-26%	-58%	158%	394%
UTTARAKHAND	83%	110%	-38%	14%	-58%	-53%	-29%	-9%	18%	-9%	234%	223%
HAR. CHD & DELHI	7%	5%	-36%	44%	-9%	-61%	-16%	-46%	-72%	-47%	240%	55%
PUNJAB	34%	164%	-60%	77%	17%	-51%	4%	-2%	-14%	2%	397%	132%
HIMACHAL PRADESH	-6%	89%	-45%	-50%	-38%	-45%	-22%	22%	-27%	-21%	141%	15%
JAMMU & KASHMIR	49%	65%	-45%	-44%	-5%	14%	-5%	-12%	-58%	-15%	376%	0%
WEST RAJASTHAN	88%	-72%	-64%	39%	84%	-32%	-5%	59%	40%	147%	905%	97%
EAST RAJASTHAN	23%	-50%	-77%	376%	-32%	9%	23%	73%	104%	107%	-26%	-2%
CENTRAL INDIA	-37%	-13%	-11%	14%	-29%	-31%	9%	39%	107%	100%	-21%	-25%
ODISHA	-89%	34%	6%	15%	20%	-33%	-13%	22%	50%	76%	-56%	-73%
WEST MADHYA PRADESH	-82%	-7%	-61%	370%	-74%	-26%	31%	64%	168%	87%	-35%	-45%
EAST MADHYA PRADESH	-26%	-49%	25%	86%	-73%	-58%	-1%	27%	124%	10%	-95%	93%
GUJARAT REGION	-100%	-25%	-100%	37%	-96%	-18%	-22%	75%	100%	280%	44%	-35%
SAURASHTRA & KUTCH	128%	-55%	-99%	5%	-97%	-34%	-33%	118%	343%	149%	117%	62%
KONKAN & GOA	-100%	-100%	-100%	-79%	-99%	-7%	52%	43%	191%	133%	11%	-96%
MADHYA MAHARASHTRA	-100%	-100%	-41%	-27%	-93%	-21%	64%	98%	65%	176%	6%	-78%
MARATHWADA	-100%	-87%	-95%	-17%	-96%	-33%	-18%	-28%	32%	217%	37%	-78%
VIDARBHA	8%	-83%	-63%	-59%	-96%	-46%	11%	5%	92%	-3%	-24%	-68%
CHHATTISGARH	34%	7%	15%	-34%	-32%	-33%	-2%	12%	67%	69%	-93%	-26%
SOUTH PENINSULA	21%	-62%	-72%	-27%	-50%	-30%	-10%	57%	49%	54%	-45%	4%
A & N ISLAND	237%	-76%	-43%	-52%	-37%	60%	-47%	110%	39%	-52%	-45%	-84%
COASTAL A. P.& YANAM	8%	-89%	-48%	1%	-56%	-37%	8%	9%	41%	32%	-83%	-5%
TELANGANA	201%	-78%	-82%	-19%	-61%	-35%	-7%	14%	47%	73%	-61%	-56%
RAYALASEEMA	263%	-79%	-99%	-42%	-37%	-23%	-31%	2%	66%	30%	-70%	53%
TAMIL., PUDU. & KARAIKAL	-86%	-79%	-86%	-54%	-54%	-38%	-23%	42%	49%	27%	-30%	13%
COASTAL KARNATAKA	-100%	-64%	-55%	-14%	-84%	-33%	7%	71%	108%	179%	-16%	9%
N. I. KARNATAKA	-75%	-98%	-35%	-16%	-63%	1%	6%	70%	13%	109%	-17%	-61%
S. I. KARNATAKA	-52%	106%	-82%	-22%	-8%	-29%	-22%	102%	44%	83%	-39%	40%
KERALA & MAHE	-92%	-11%	-57%	-11%	-72%	-44%	-20%	123%	64%	55%	-22%	4%
LAKSHADWEEP	-100%	187%	-62%	-36%	-93%	-27%	66%	52%	-5%	254%	-68%	466%
COUNTRY AS A WHOLE	7%	41%	-38%	-20%	-17%	-32%	5%	16%	52%	45%	4%	11%

4.7   CATEGORY-WISE MONTHLY DISTRIBUTION

The statistics and chart for monthly distribution of no. of Met. Subdivisions in different categories are given below in Table 14 and Figure 18 respectively.

It may be observed (Table 14) that in Winter and pre-Monsoon season more Met. Subdivision were in "Below Normal "rainfall category while during SW Monsoon (except June), and Post Monsoon (except Nov) there were more met subdivisions having observed monthly rainfall in the "Above Normal" Category

Months of March and June have maximum no of subdivisions in the large deficient/deficient/No Rain category. August to October months had most of the subdivisions in Large Excess/Excess/Normal Category.

Table 14: Categorywise monthly number of Met. Subdivisions - Year 2019

Category	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
L. EXCESS	6	9	0	6	1	1	2	10	13	16	9	10
EXCESS	5	4	3	5	2	0	7	7	10	6	2	4
NORMAL	5	7	3	11	8	5	16	10	9	6	5	7
DEFICIENT	3	4	15	12	10	28	11	9	3	8	9	7
L. DEFICIENT	11	10	13	2	15	2	0	0	1	0	10	8
NO RAIN	6	2	2	0	0	0	0	0	0	0	1	0
NO DATA	0	0	0	0	0	0	0	0	0	0	0	0
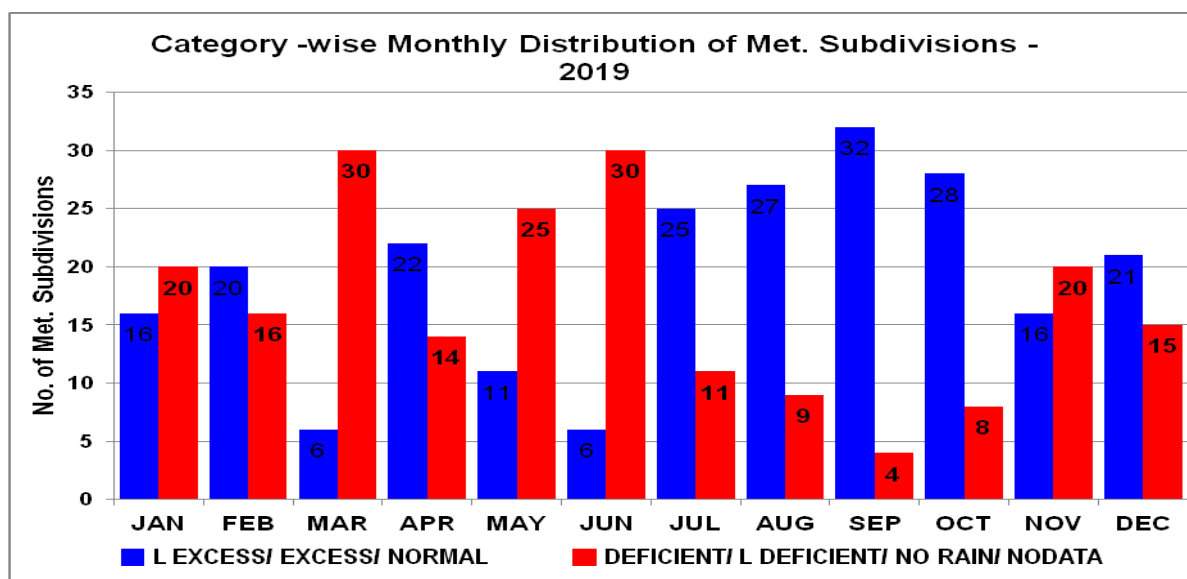
Figure 18: Categorywise distribution of Met. Subdivisions – Monthly - Year 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

4.8   MONTHLY RAINFALL MAPS

Met. Subdivision-wise rainfall maps depicting the monthly observed and normal rainfall, percent departure from the normal rainfall shaded with category-wise defined colors have been given at Figure 19 to Figure 30. Bold figures on the map are the normal rainfall values where as small figures indicate the actual rainfall. Percentage departures of rainfall are shown within the brackets.
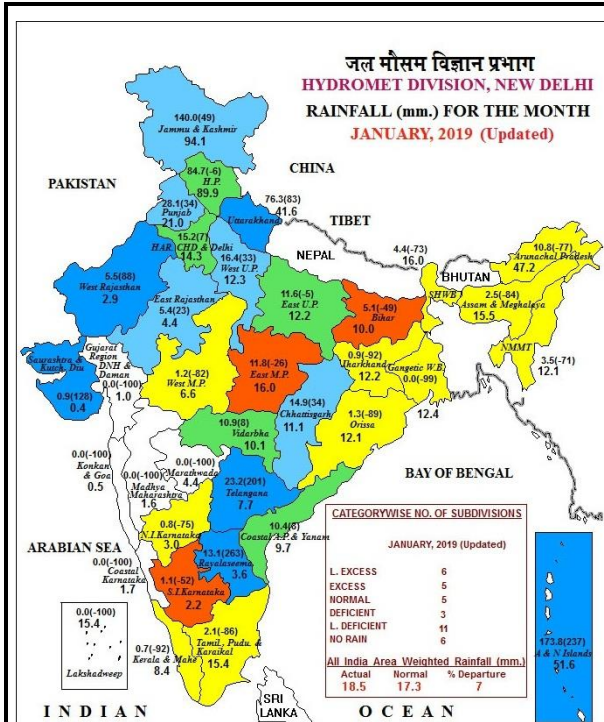
Figure 19: Rainfall map – January 2019
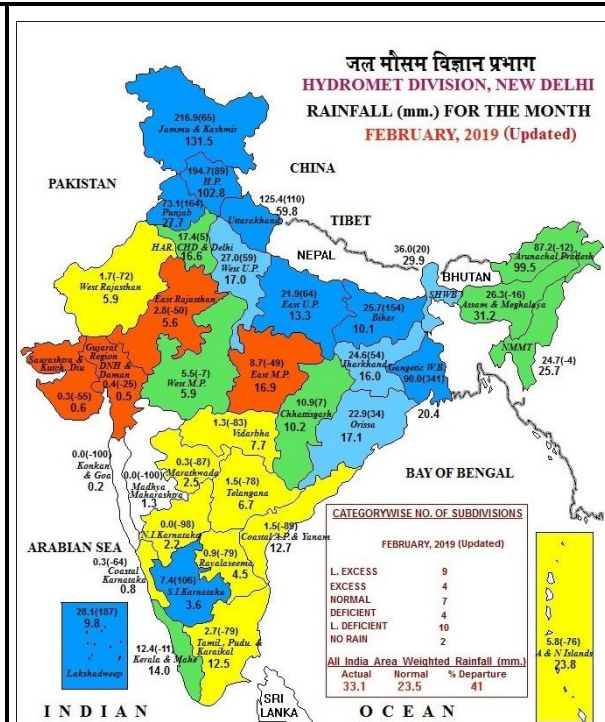
Figure 20: Rainfall map - February 2019
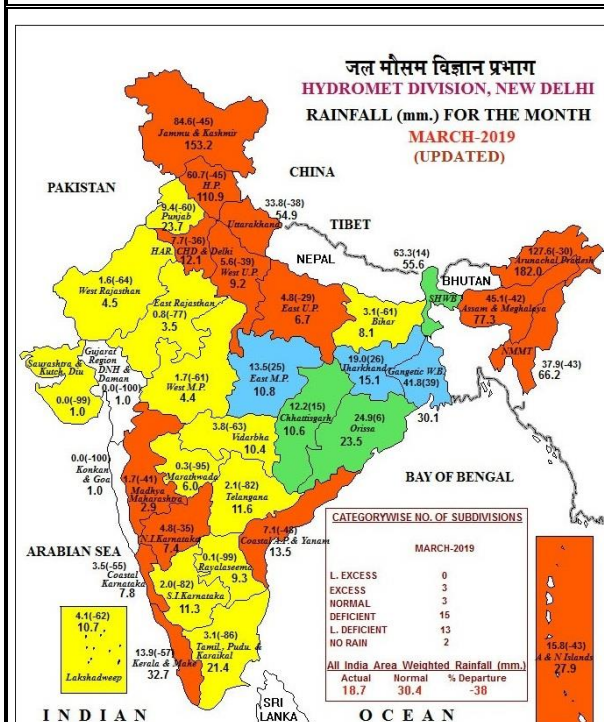
Figure 21: Rainfall map - March 2019
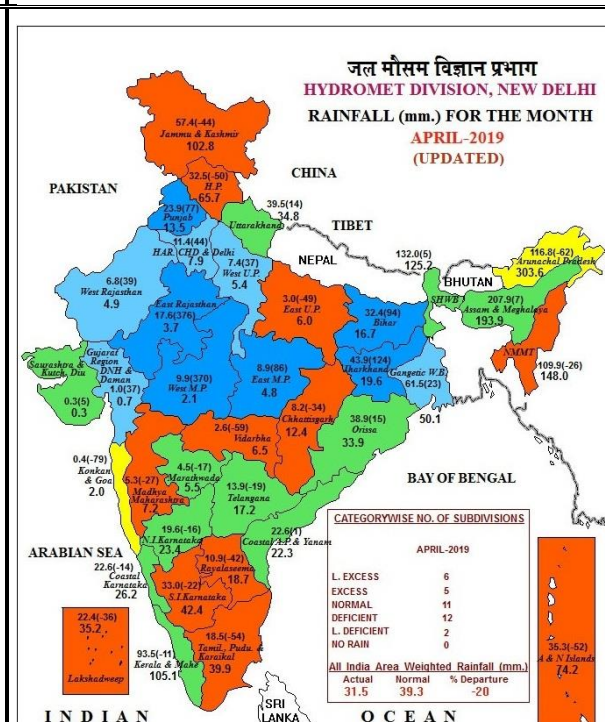
Figure 22: Rainfall map - April 2019

4. RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
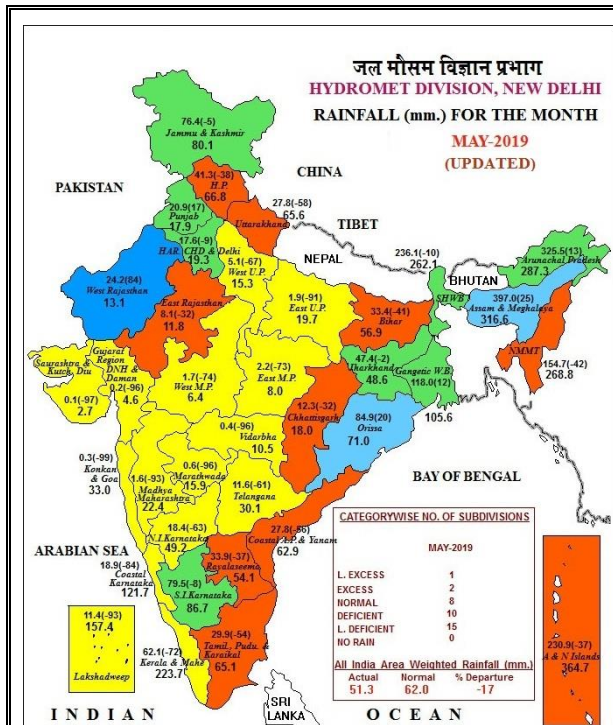
Figure 23: Rainfall map - May 2019
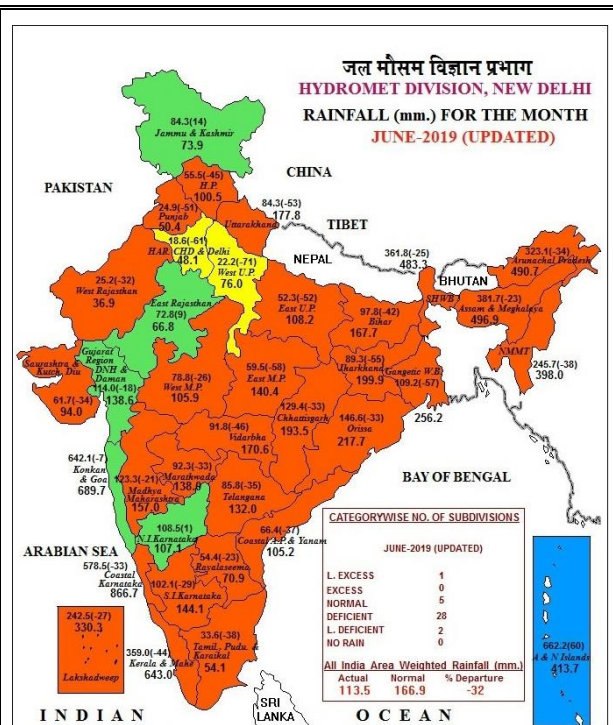
Figure 24: Rainfall map - June 2019
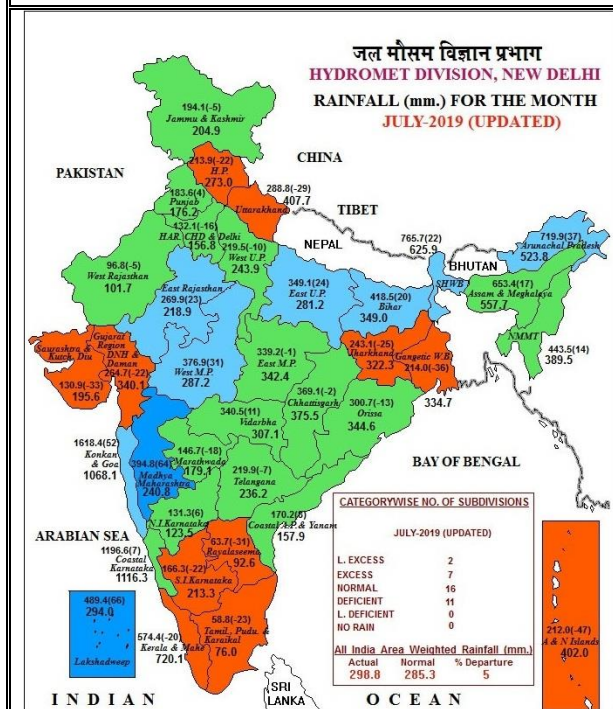
Figure 25: Rainfall map - July 2019
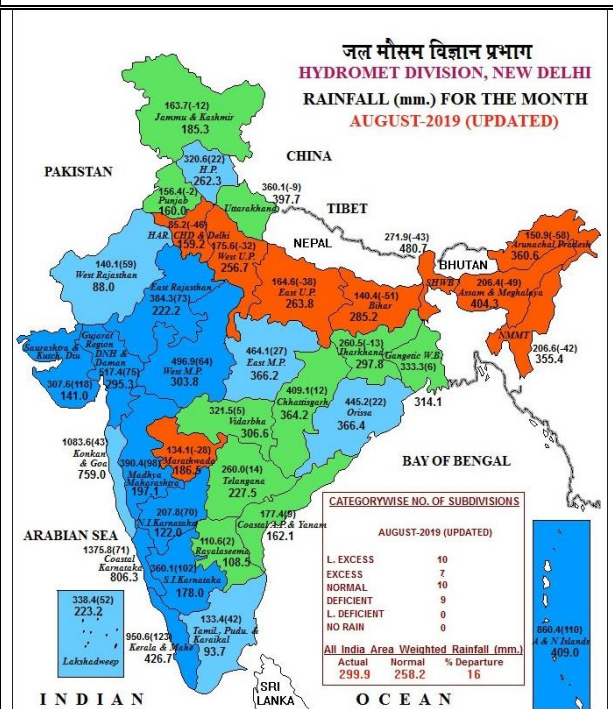
Figure 26: Rainfall map - August 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
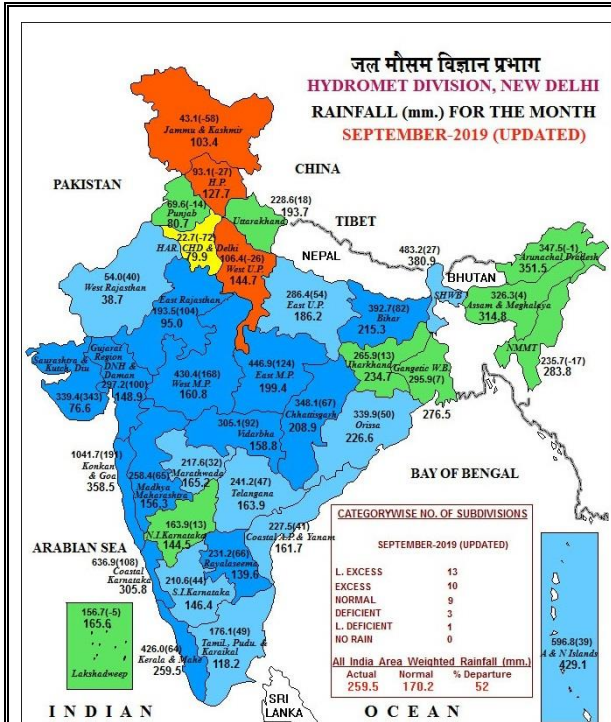
Figure 27: Rainfall map - September 2019
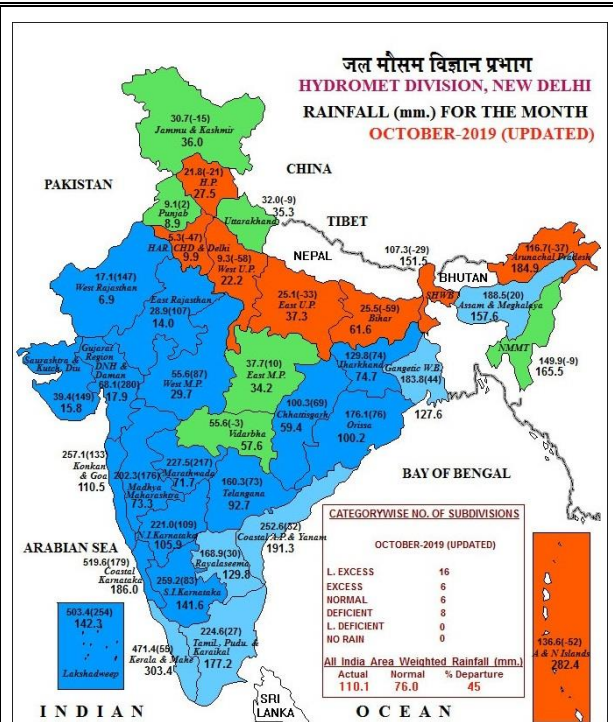
Figure 28: Rainfall map - October 2019
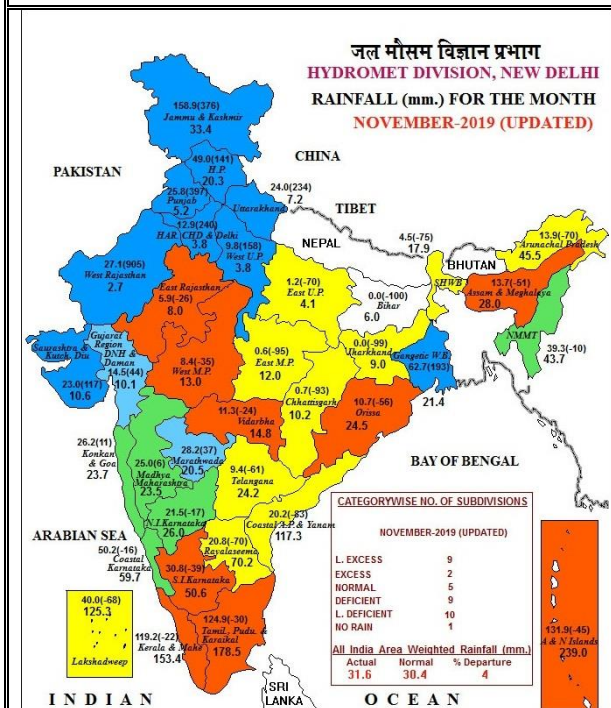
Figure 29: Rainfall map - November 2019
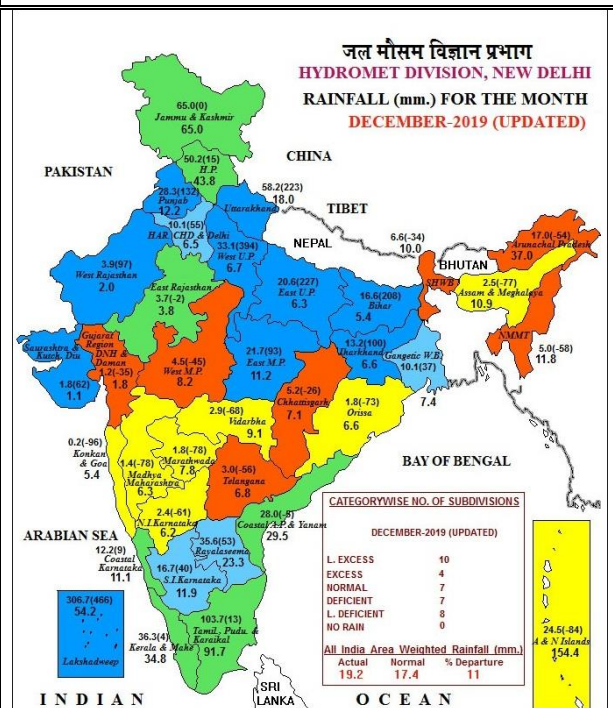
Figure 30: Rainfall map - December 2019

4.9   DAILY RAINFALL DISTRIBUTION – SW MONSOON 2018

Daily observed rainfall distributions for each of the 36 Met. Subdivisions along with their daily rainfall normals, region-wise, have been depicted inFigure31toFigure 66.

REGION: NORTH WEST INDIA
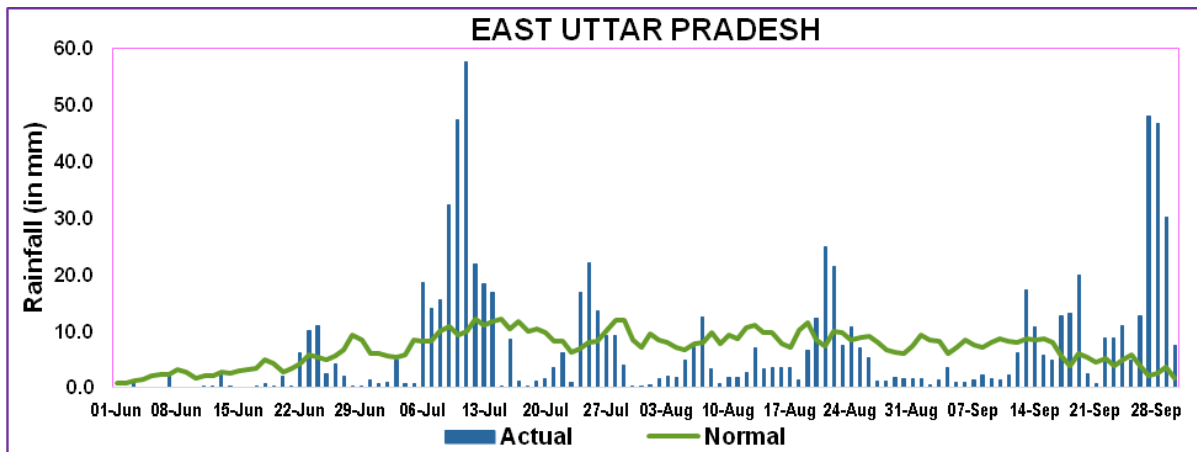
Figure 31: East Uttar Pradesh - Rainfall Distribution - SW Monsoon 2019
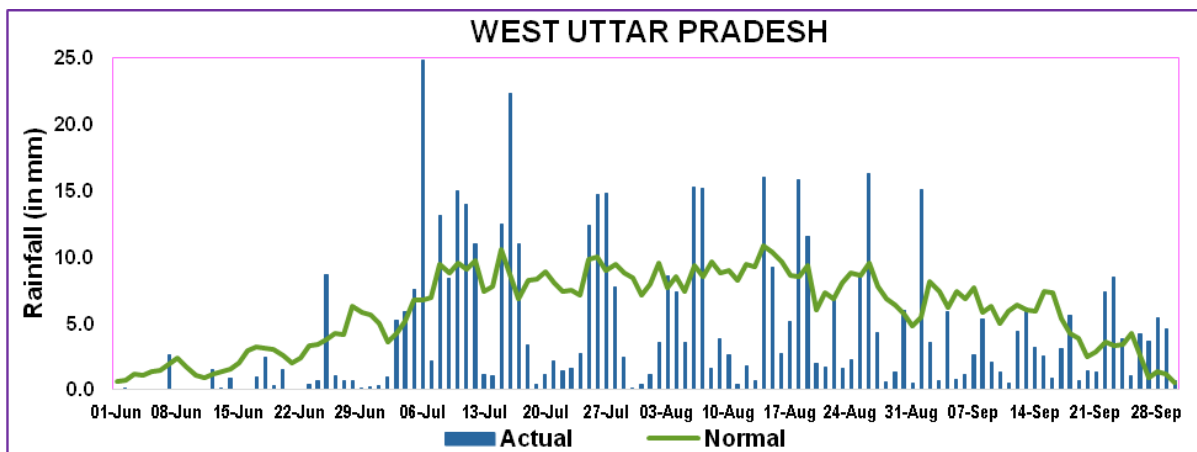
Figure 32: West Uttar Pradesh - Rainfall Distribution - SW Monsoon 2019
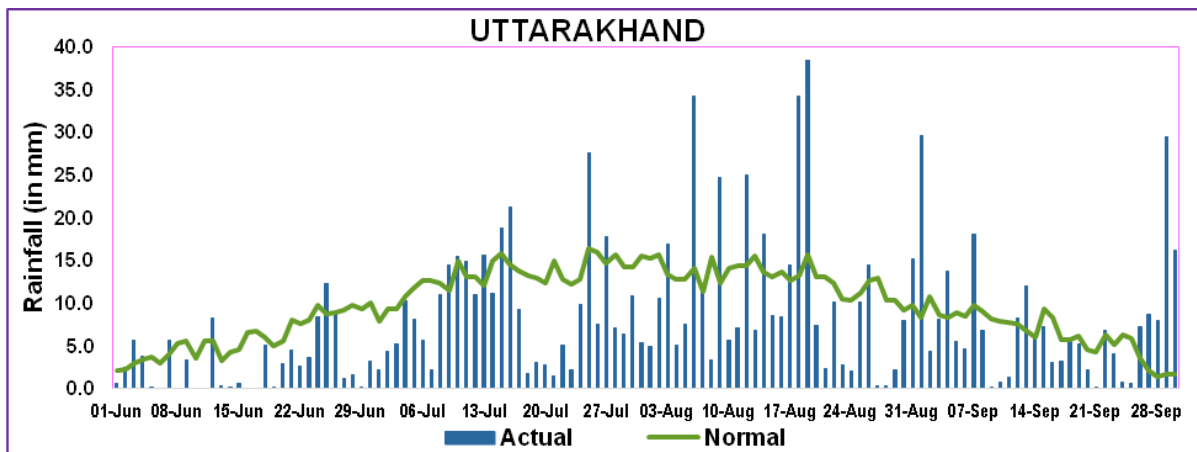
Figure 33: Uttarakhand - Rainfall Distribution - SW Monsoon 2018

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
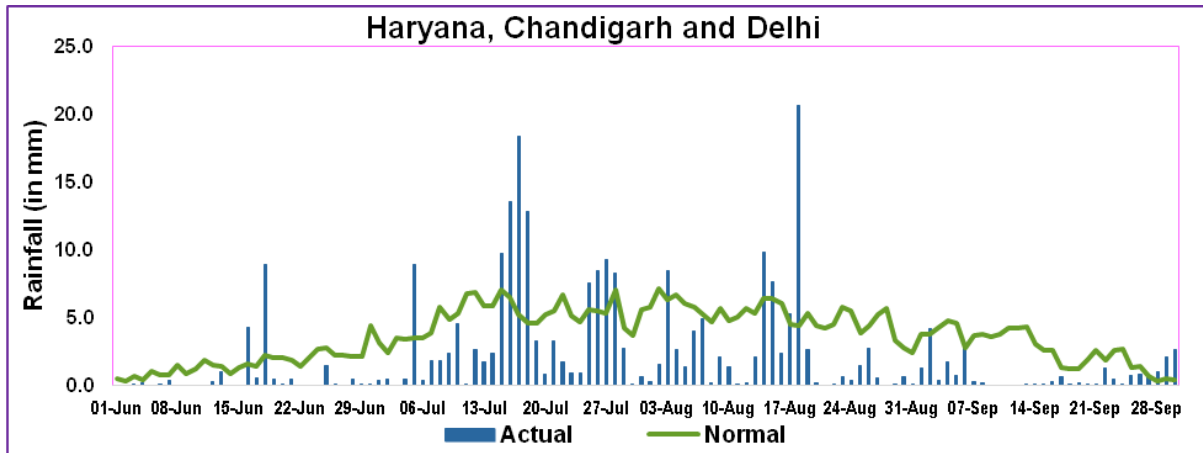
Figure 34: Haryana, Chandigarh & Delhi- Rainfall Distribution - SW Monsoon 2019
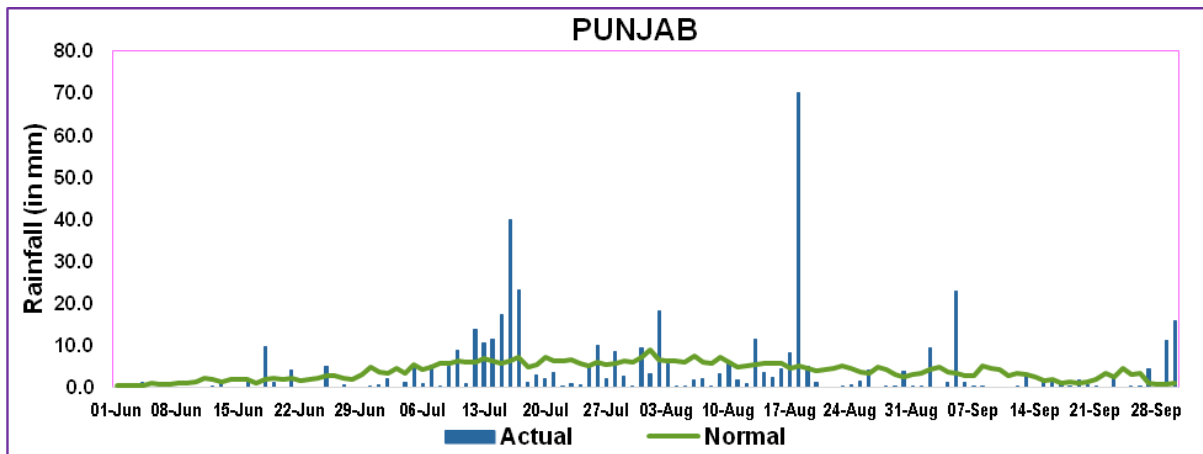
Figure 35: Punjab - Rainfall Distribution - SW Monsoon 2019
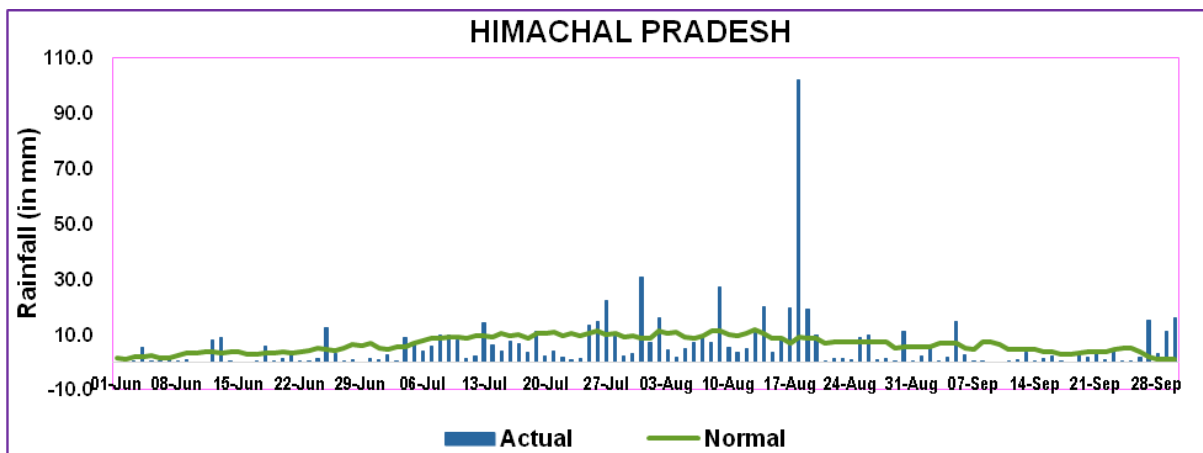
Figure 36: Himachal Pradesh - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
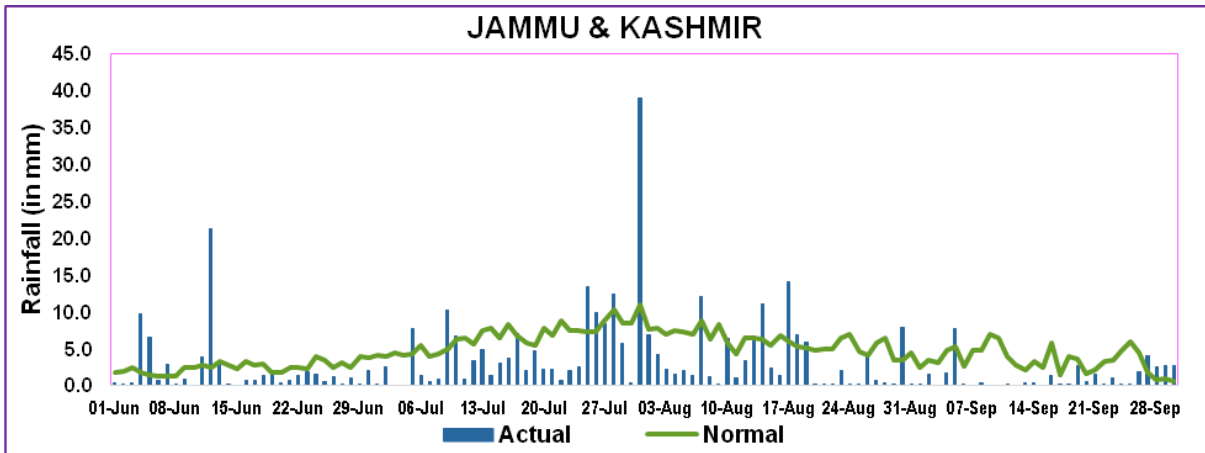
Figure 37: Jammu & Kashmir - Rainfall Distribution - SW Monsoon 2019
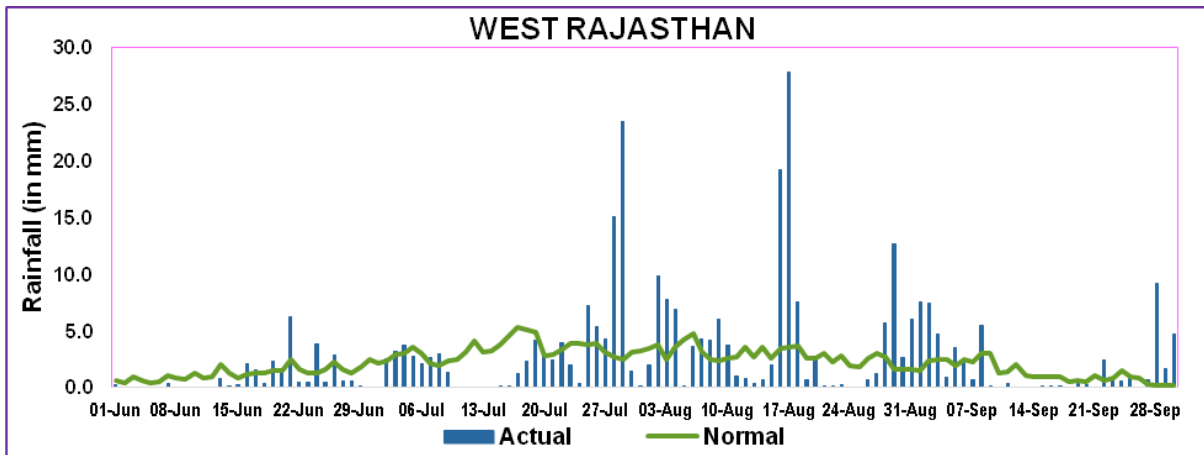
Figure 38: West Rajasthan - Rainfall Distribution - SW Monsoon 2019
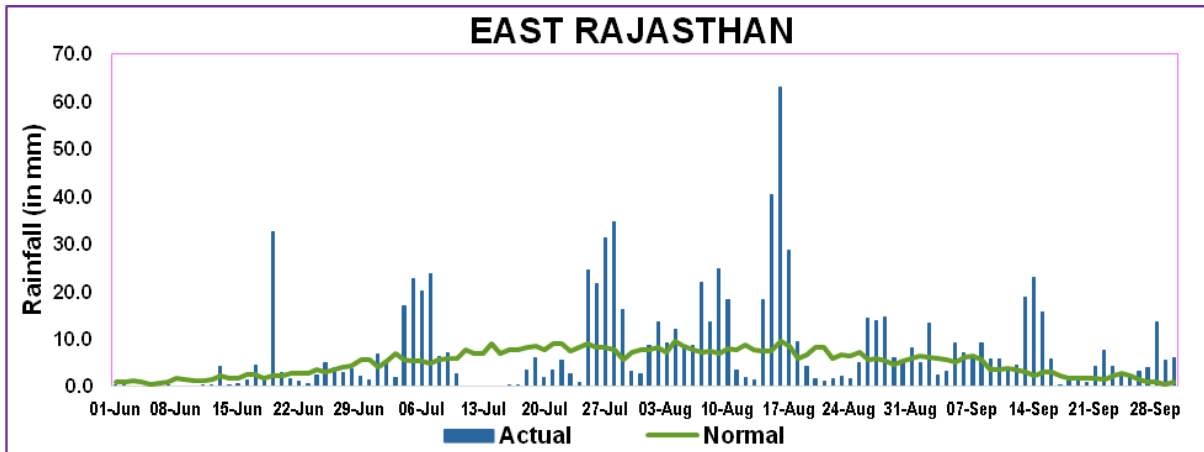
Figure 39: East Rajasthan - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION

REGION: CENTRAL INDIA
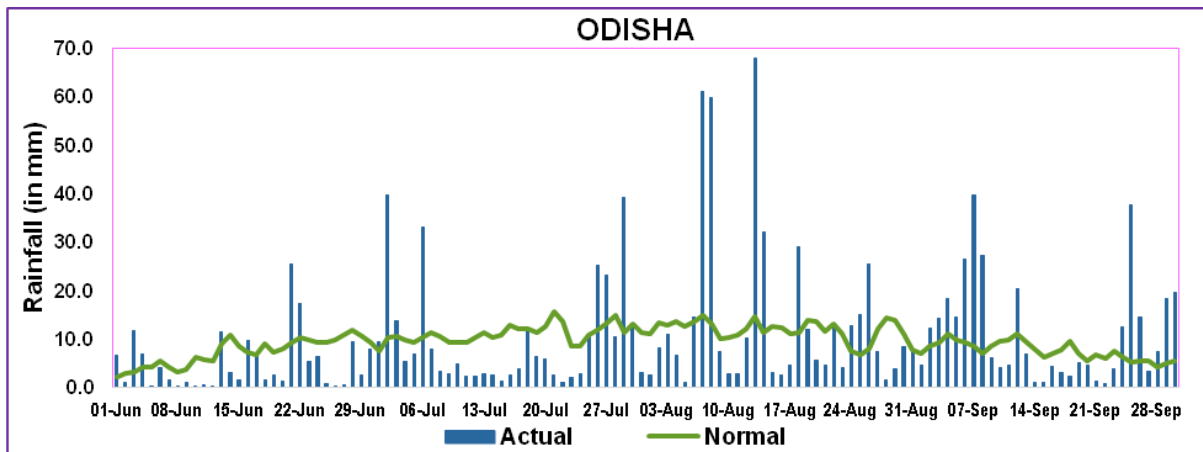
Figure 40: Odisha - Rainfall Distribution - SW Monsoon 2019
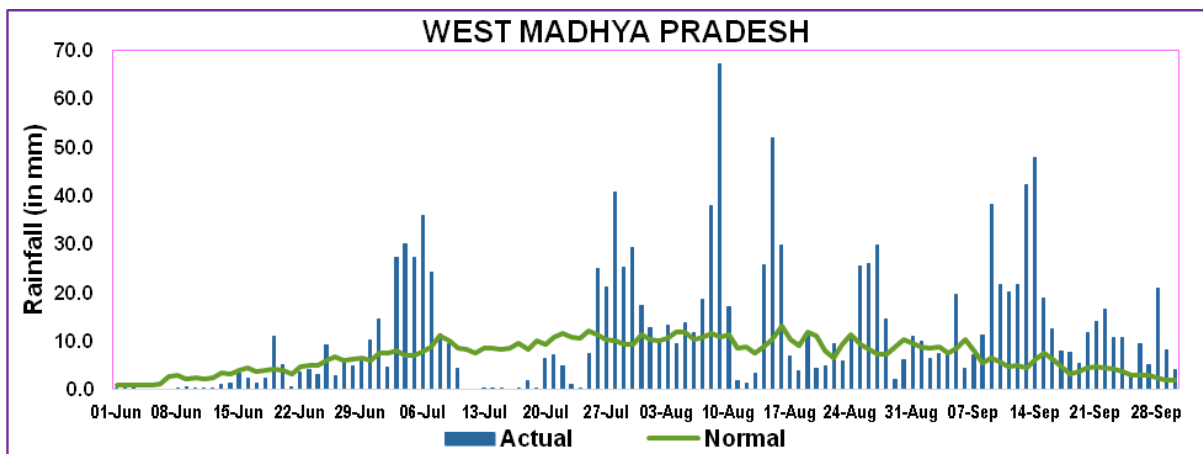
Figure 41: West Madhya Pradesh - Rainfall Distribution - SW Monsoon 2019
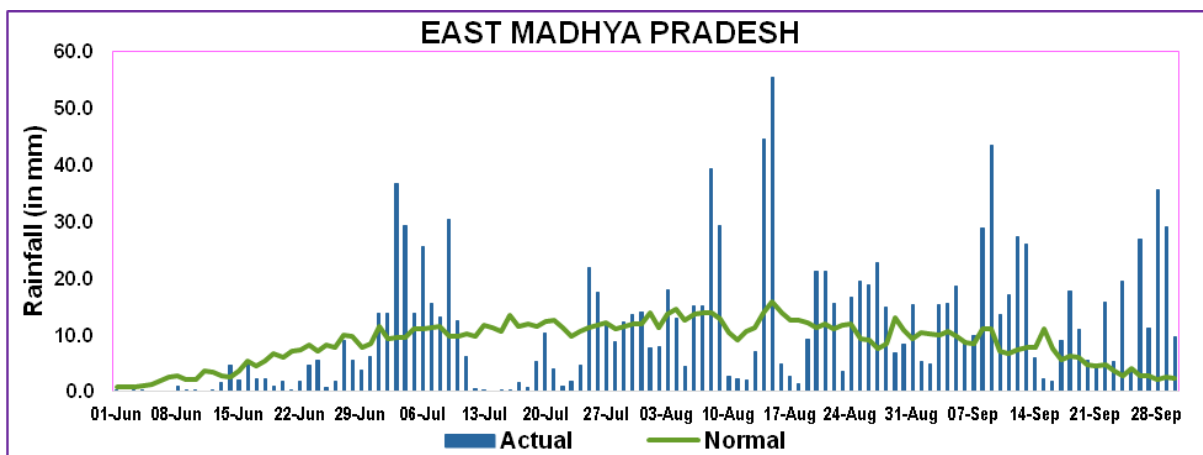
Figure 42: East Madhya Pradesh - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
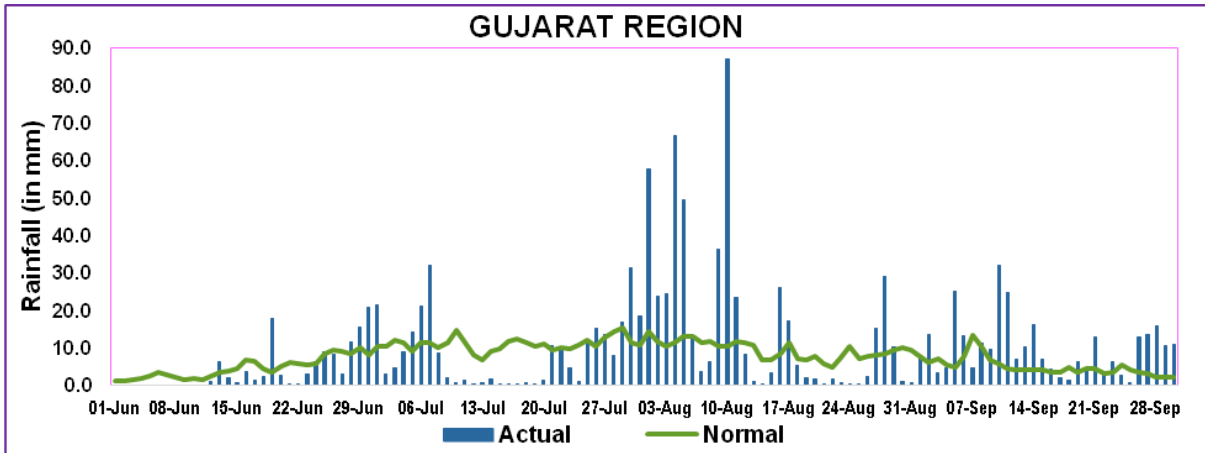
Figure 43: Gujarat Region - Rainfall Distribution - SW Monsoon 2019
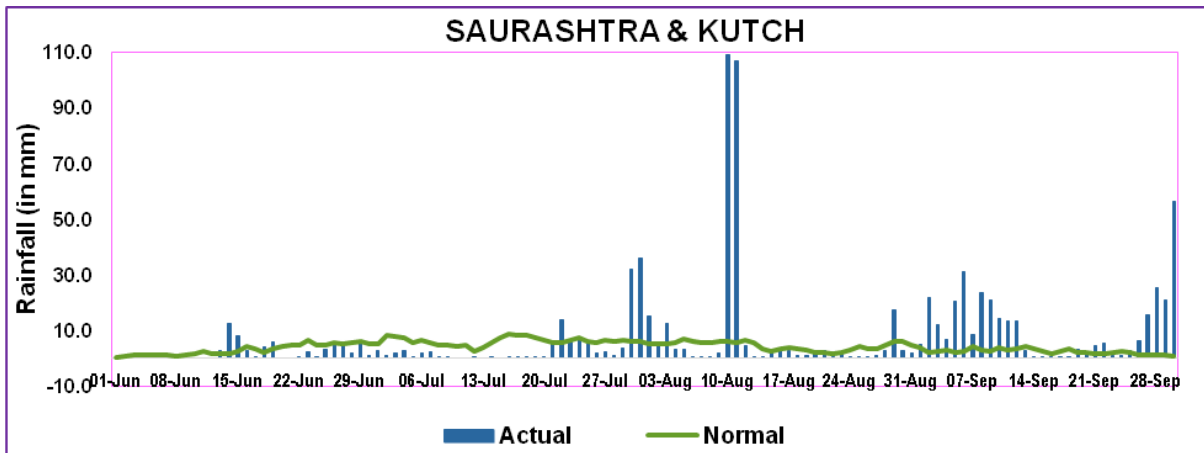
Figure 44: Saurashtra & Kutch - Rainfall Distribution - SW Monsoon 2019
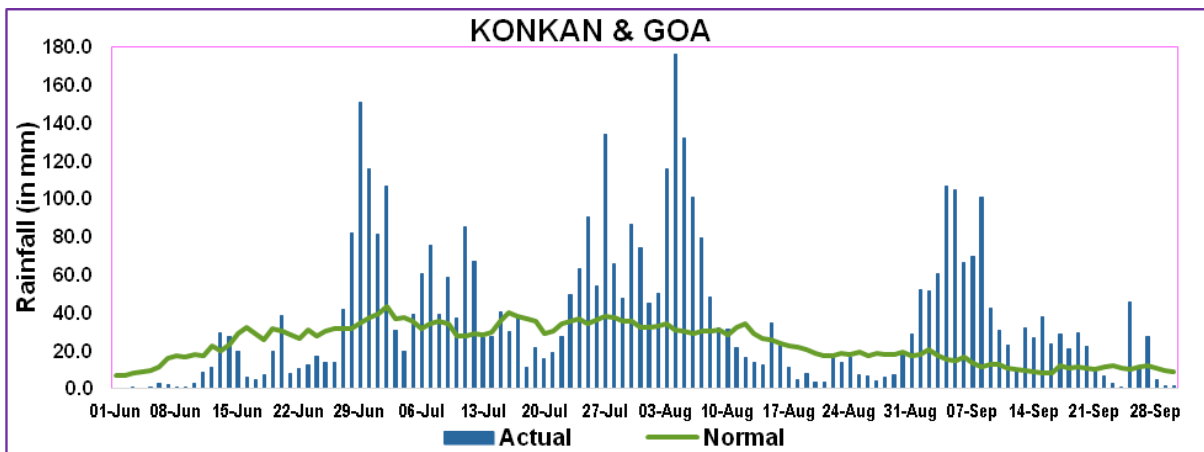
Figure 45: Konkan & Goa - Rainfall Distribution - SW Monsoon 2019

4. RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
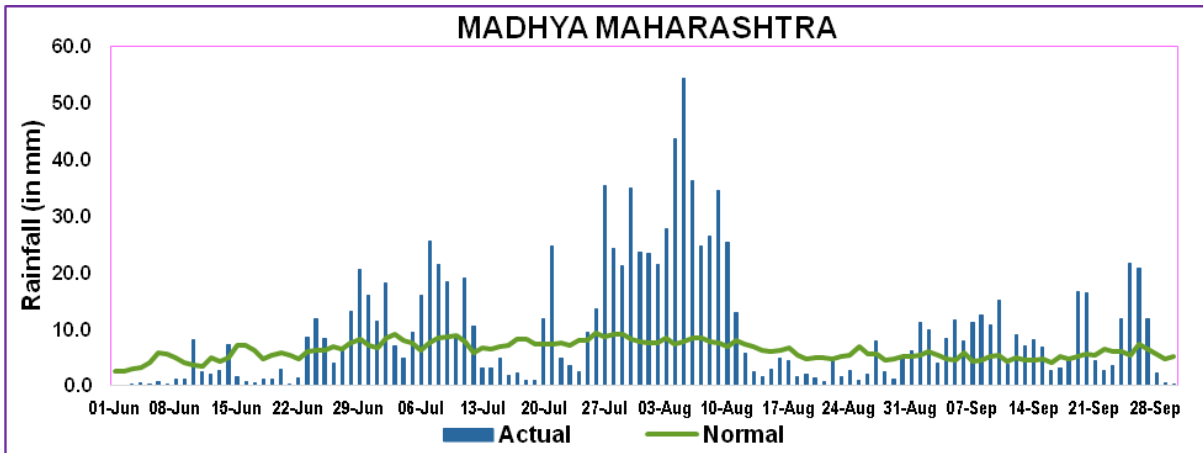
Figure 46: Madhya Maharashtra - Rainfall Distribution - SW Monsoon 2019
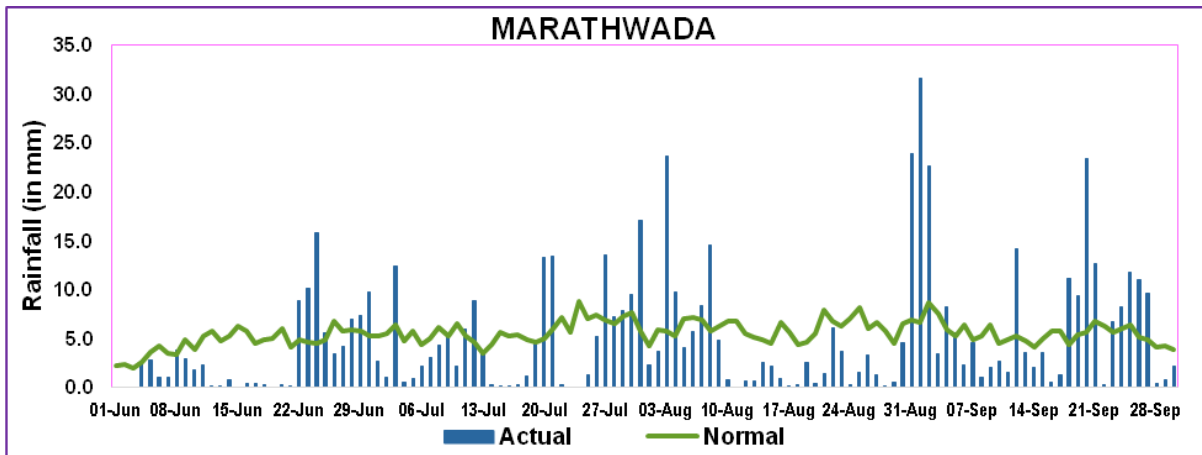
Figure 47: Marathwada - Rainfall Distribution - SW Monsoon 2019
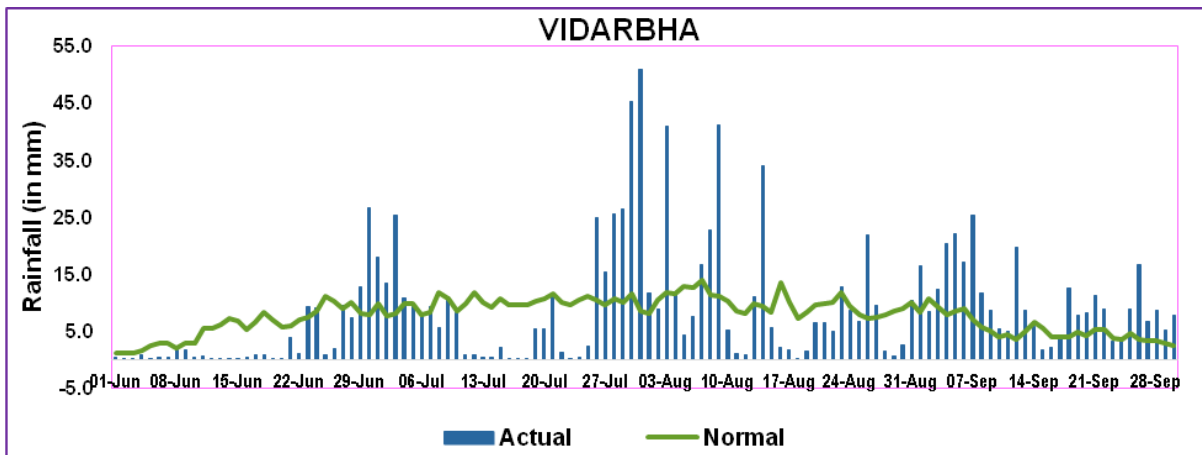
Figure 48: Vidarbha - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
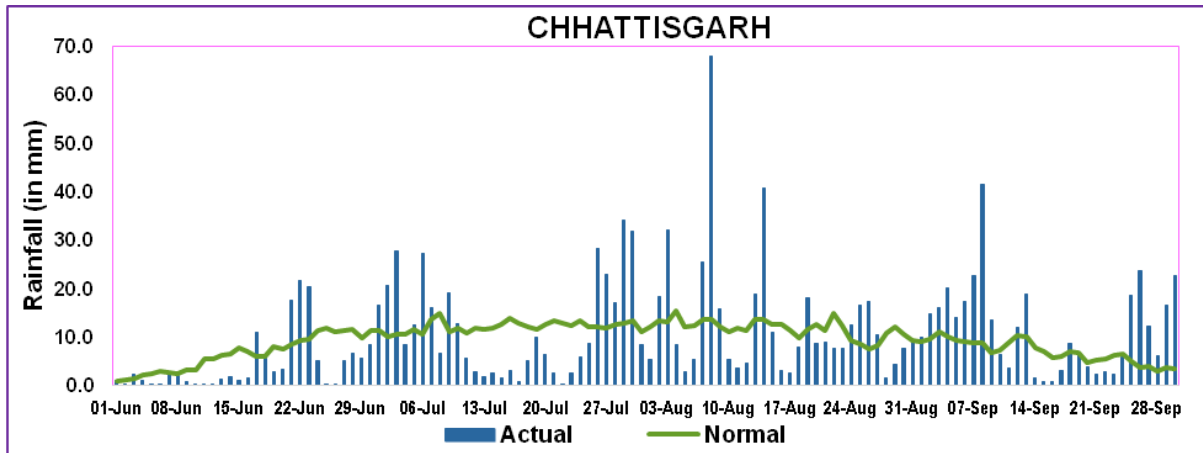
Figure 49: Chhattisgarh - Rainfall Distribution - SW Monsoon 2019

REGION: SOUTH PENINSULA
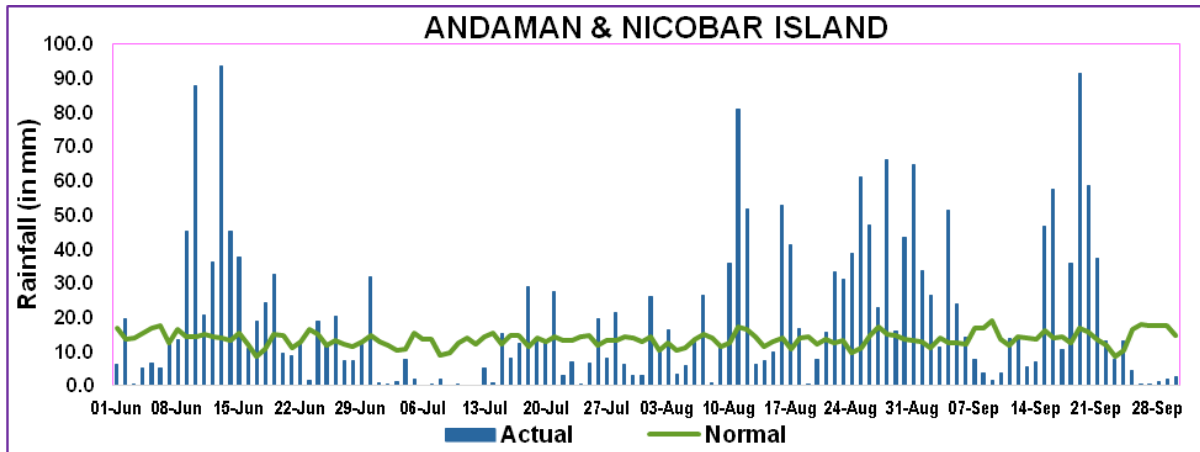
Figure 50: Andaman & Nicobar Islands - Rainfall Distribution - SW Monsoon 2019
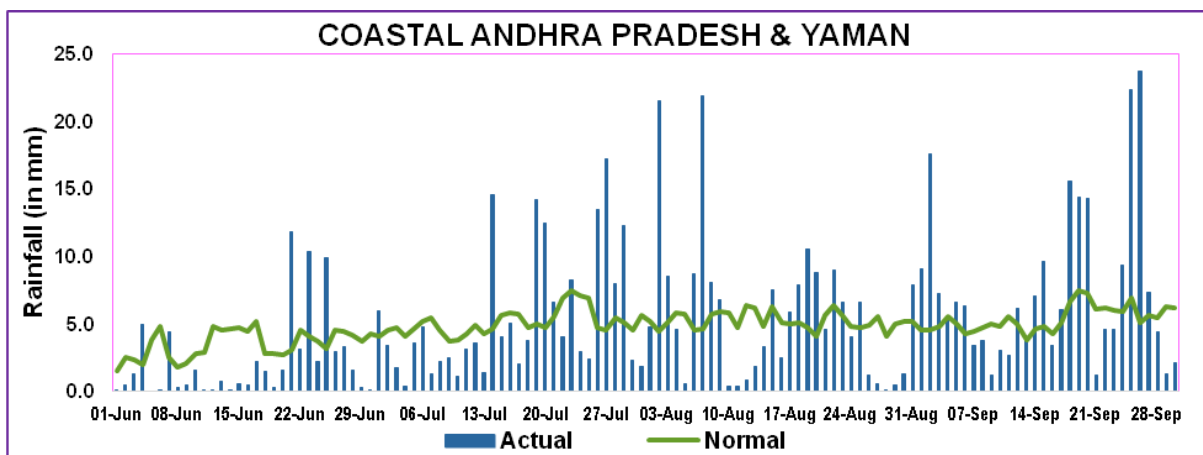
Figure 51: Coastal A. P. & Yaman- Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
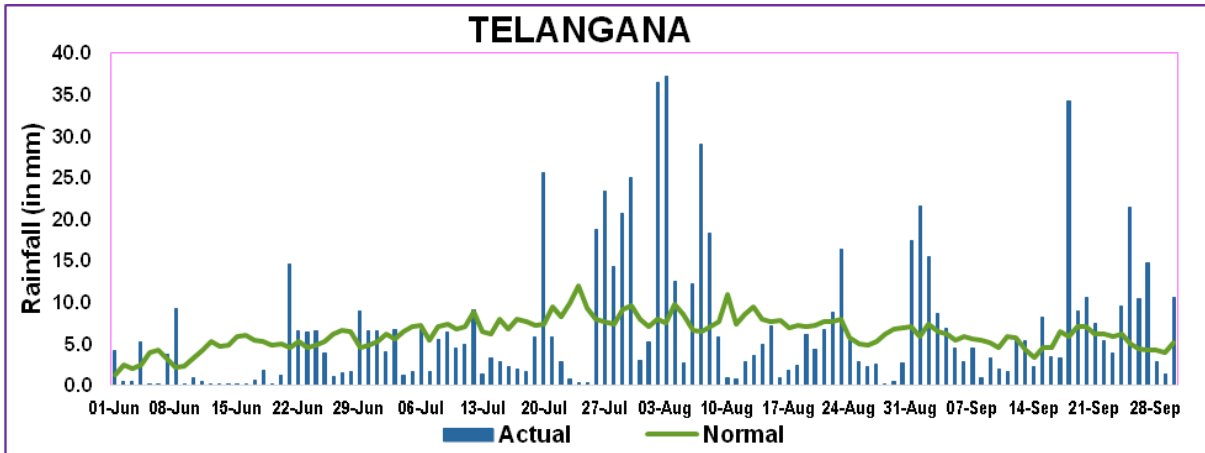
Figure 52: Telangana - Rainfall Distribution - SW Monsoon 2019
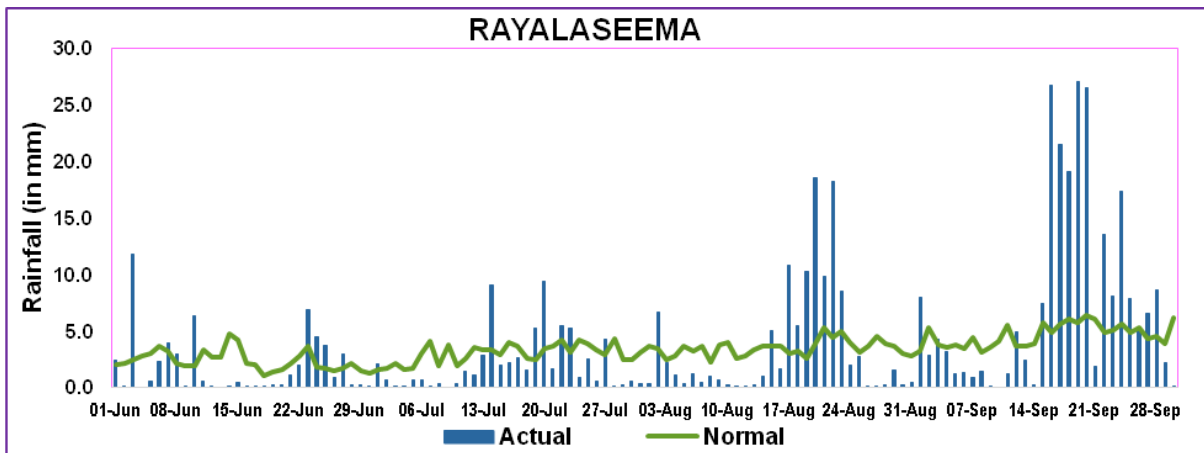
Figure 53: Rayalaseema - Rainfall Distribution - SW Monsoon 2019
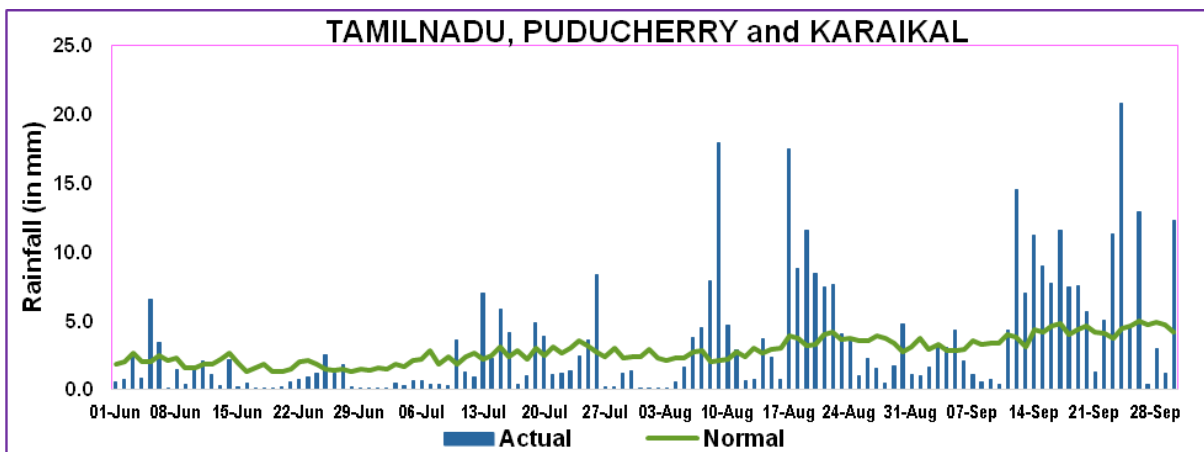
Figure 54: Tamil., Pudu. & Karaikal - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
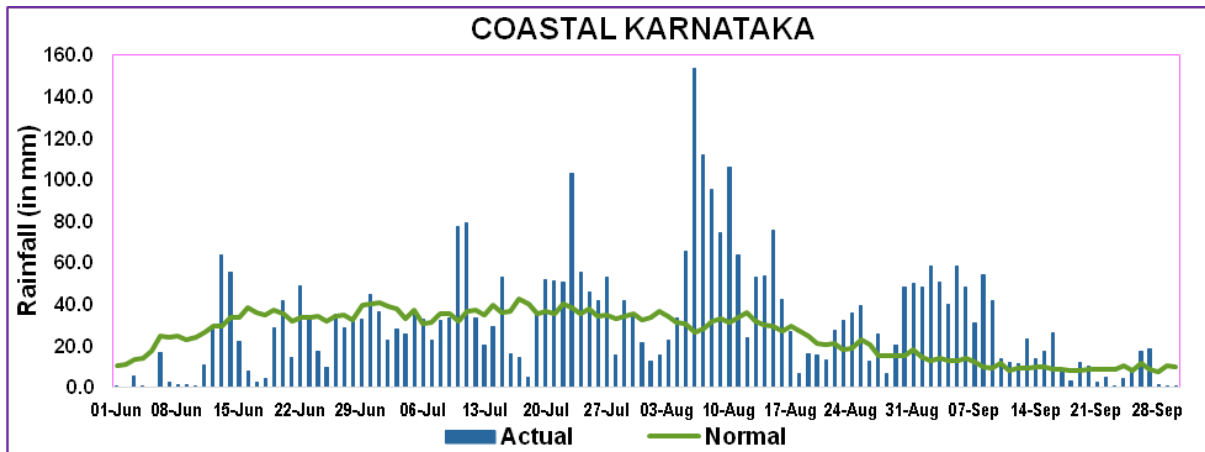
Figure 55: Coastal Karnataka - Rainfall Distribution - SW Monsoon 2019
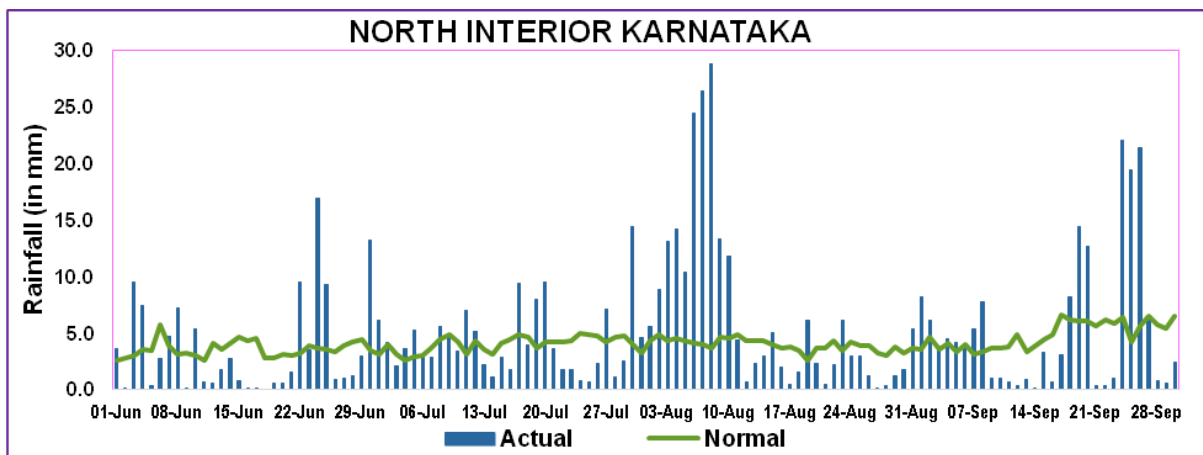
Figure 56: North Interior Karnataka - Rainfall Distribution - SW Monsoon 2019
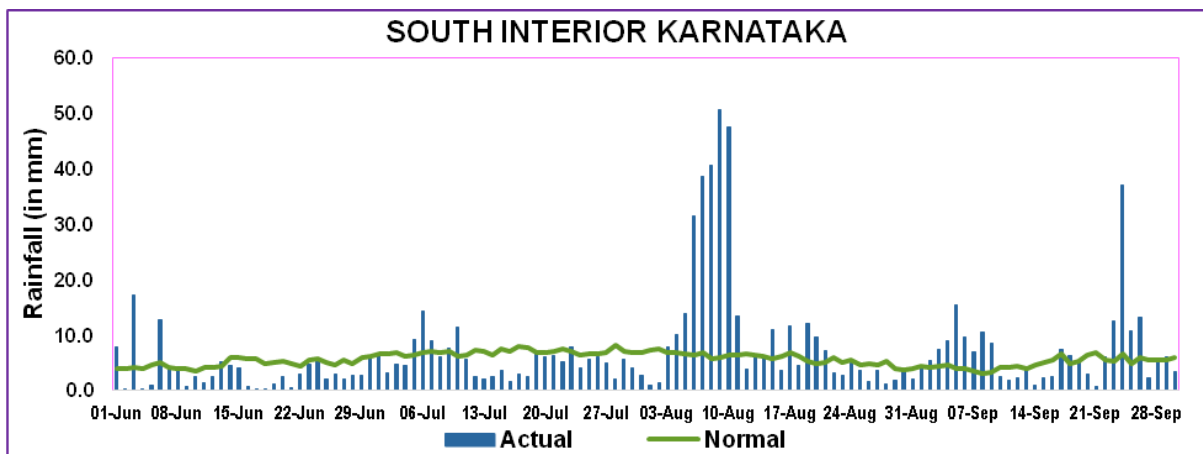
Figure 57: South Interior Karnataka - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
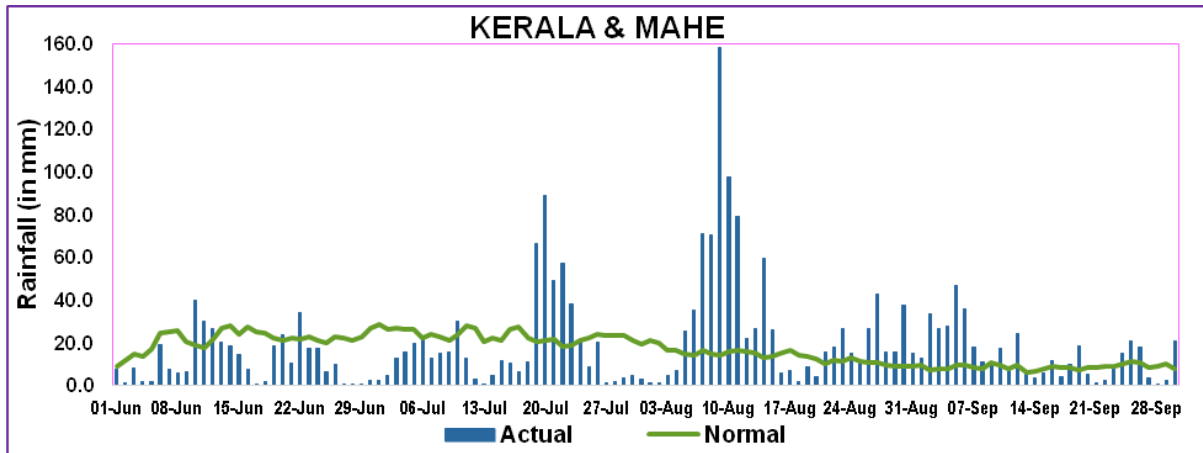
Figure 58: Kerala & Mahe - Rainfall Distribution - SW Monsoon 2019
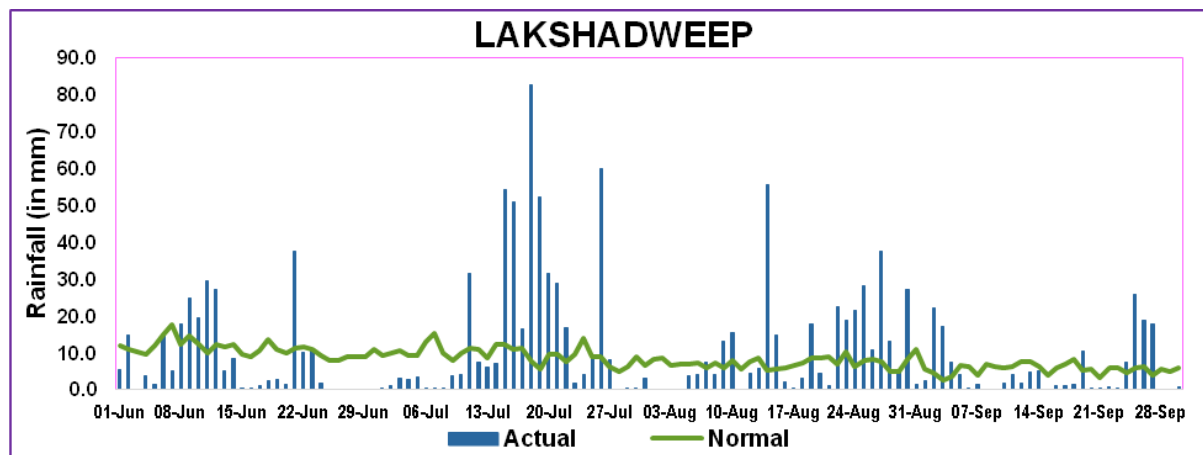
Figure 59: Lakshadweep - Rainfall Distribution - SW Monsoon 2019

REGION: EAST & NORTH EAST INDIA
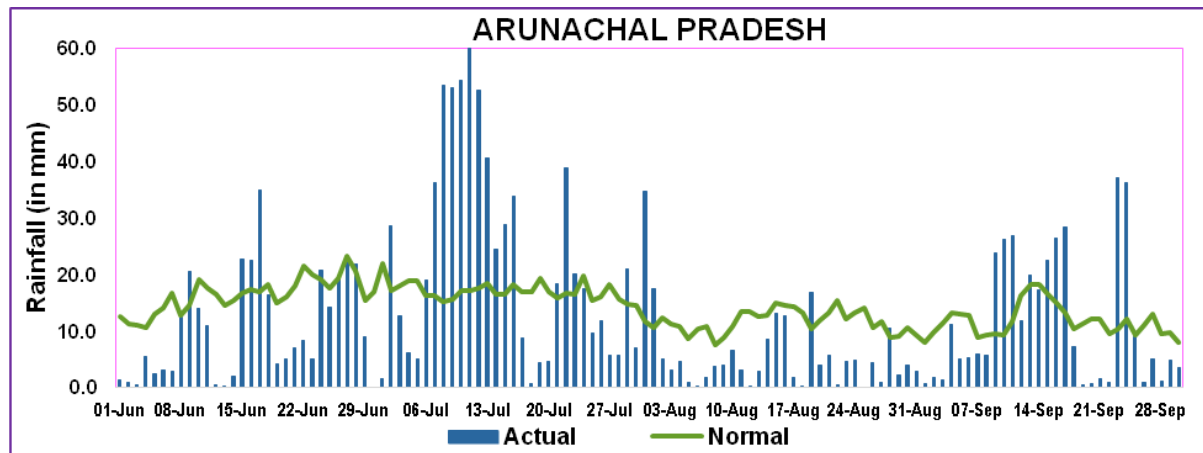
Figure 60: Arunachal Pradesh - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
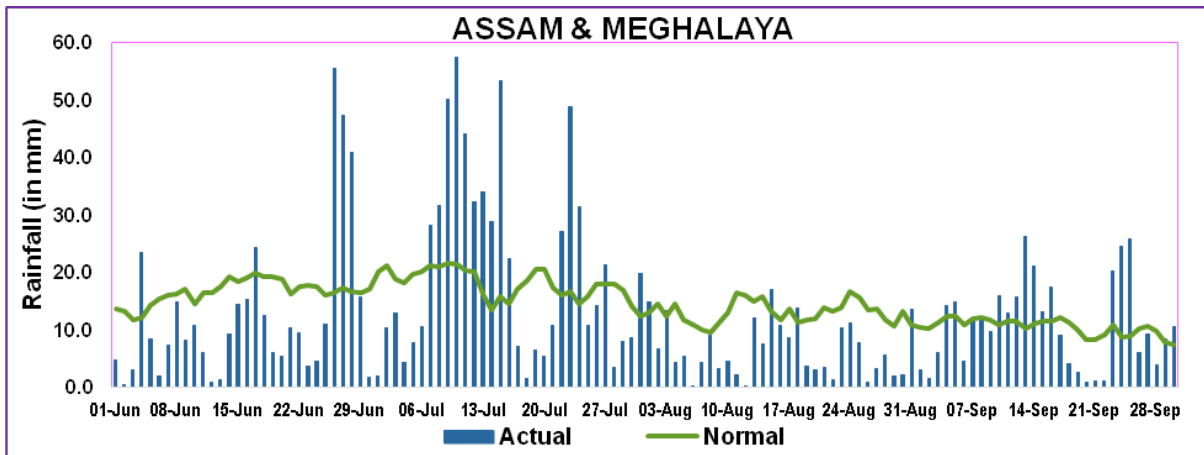
Figure 61: Assam &Meghalaya - Rainfall Distribution - SW Monsoon 2019
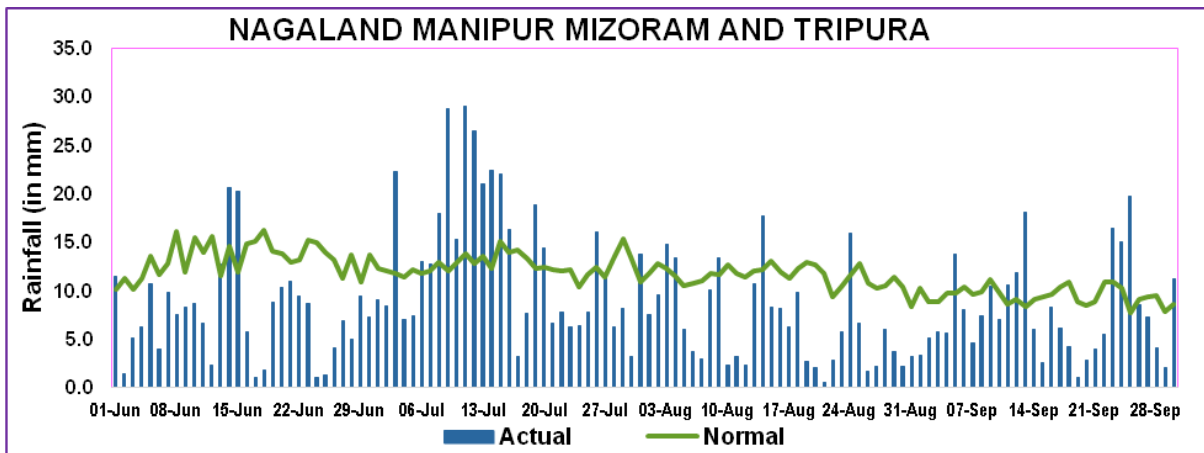
Figure 62: NMMT - Rainfall Distribution - SW Monsoon 2019
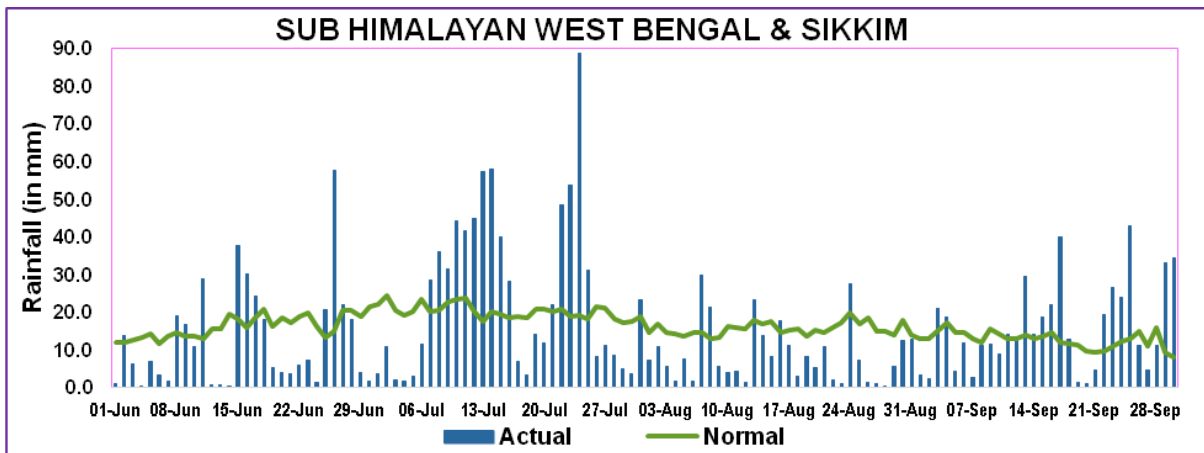
Figure 63: S H W Bengal & Sikkim - Rainfall Distribution - SW Monsoon 2019

4.   RAINFALL STATISTICS FOR METEOROLOGICAL SUBDIVISION
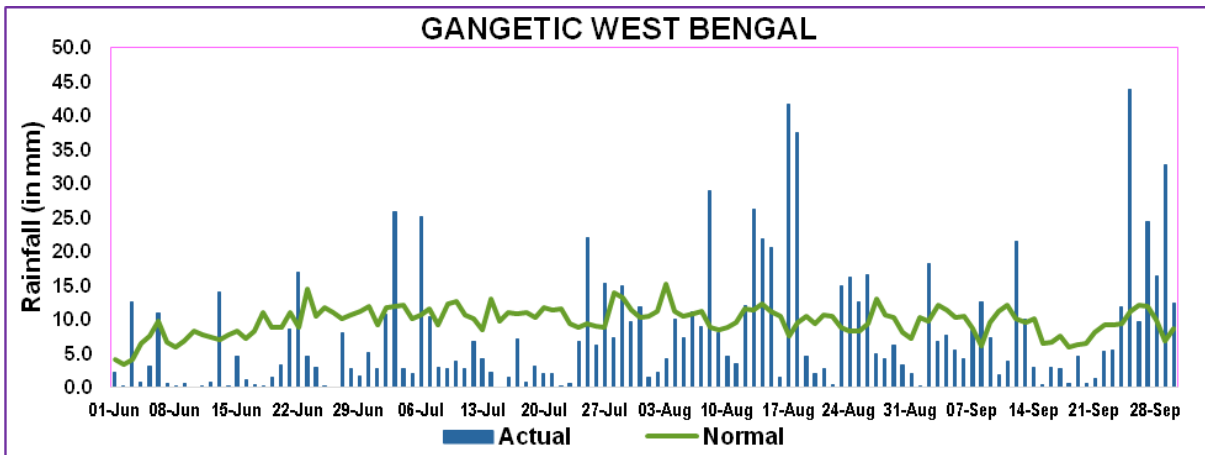
Figure 64: Gangetic West Bengal - Rainfall Distribution - SW Monsoon 2019

Figure 65: Jharkhand - Rainfall Distribution - SW Monsoon 2019
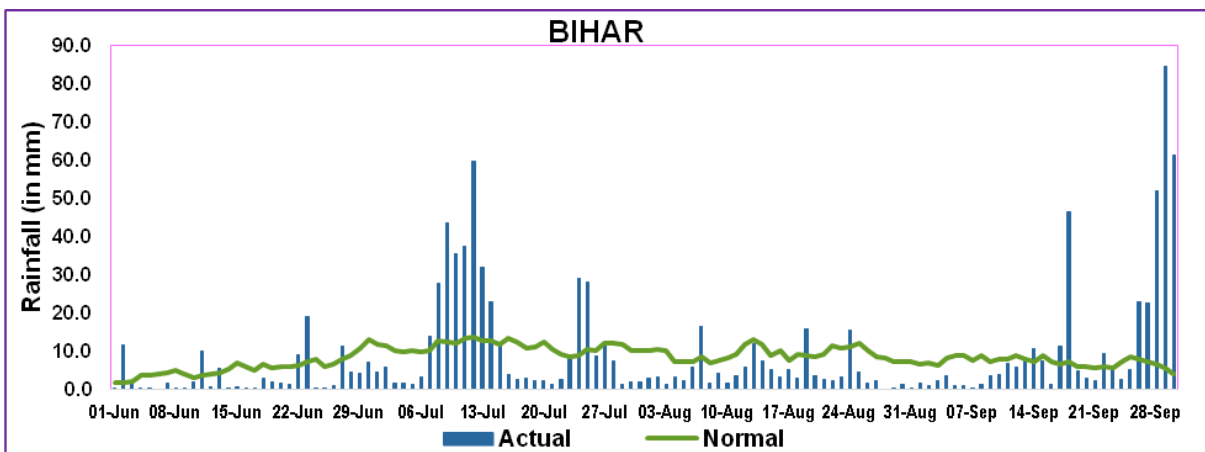
Figure 66: Bihar - Rainfall Distribution - SW Monsoon 2019

5. *STATE-WISE RAINFALL STATISTICS*

5.1 SEASONAL & ANNUAL

Statewise seasonal and annual observed rainfall, and its percentage departure from normal rainfall for the states have been given in Table 15. It may be observed that during 2019, annual highest area weighted rainfall of 4489.5 mm was received at Goa and the lowest rainfall of 351.8 mm was received at Haryana. However, on comparing with Normal rainfall, it may be seen that, Dadra & Nagar Haveli (UT) was with the highest positive departure of 70% from its normal where as Manipur remained with highest negative departure (-54%) from normal.

Table 15: State-wise Seasonal and Annual Rainfall (mm) - Year 2019

STATES	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
EAST & NORTH EAST INDIA					
ARUNACHAL PRADESH	95.7	573.4	1541.4	151.3	2433.3
ASSAM	28.7	604.9	1333.8	161.2	2084.7
MEGHALAYA	29.8	919.9	2432.8	365.6	3844.4
NAGALAND	27.0	314.2	1003.4	241.5	1593.0
MANIPUR	14.3	159.3	642.1	151.2	928.6
MIZORAM	28.8	224.7	1526.9	166.6	2178.5
TRIPURA	48.1	572.9	1389.0	242.8	2252.8
SIKKIM	90.3	714.6	1825.1	110.0	2740.0
WEST BENGAL	73.8	250.4	1186.1	223.2	1733.4
JHARKHAND	25.6	110.3	858.9	143.0	1137.8
BIHAR	30.8	69.3	1049.4	42.2	1194.7
NORTH WEST INDIA					
UTTAR PRADESH	37.5	13.1	719.9	49.5	814.5
UTTARAKHAND	201.8	101.1	961.8	114.2	1378.9
HARYANA	31.8	36.9	255.2	27.9	351.8
CHANDIGARH (UT)	76.8	80.0	716.4	65.5	938.7
DELHI	58.0	26.5	380.1	41.6	546.9
PUNJAB	101.2	54.2	434.5	63.3	653.2
HIMACHAL PRADESH	279.3	134.5	683.0	120.9	1217.7
JAMMU & KASHMIR	356.9	219.3	486.5	254.6	1324.1
RAJASTHAN	7.6	29.9	583.7	43.9	665.1
CENTRAL INDIA					
ODISHA	24.2	148.6	1232.5	188.6	1593.9
MADHYA PRADESH	12.6	18.2	1351.1	64.8	1446.7
GUJARAT	0.8	0.7	993.3	72.9	1067.8
DADRA & NAGAR HAVELI (UT)	0.0	0.0	3622.8	150.9	3773.7
DAMAN & DIU (UT)	0.0	0.0	2161.6	108.6	2270.3
GOA	0.0	3.4	3917.6	568.5	4489.5
MAHARASHTRA	4.3	6.9	1329.8	186.1	1555.8

STATE-WISE RAINFALL STATISTICS

STATES	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
CHHATISGARH	25.8	32.6	1255.7	106.2	1420.3
SOUTH PENINSULA					
A & N ISLAND (UT)	179.6	282.0	2331.3	293.0	3086.0
ANDHRA PRADESH	12.8	52.2	565.2	269.0	899.2
TELANGANA	24.6	27.6	806.9	172.6	1031.7
TAMILNADU	4.8	51.6	401.6	452.1	910.1
PUDUCHERRY (UT)	5.0	15.0	553.2	775.1	1317.0
KARNATAKA	4.5	77.9	1032.1	307.9	1422.3
KERALA	13.1	169.6	2309.8	626.8	3119.2
LAKSHADWEEP (UT)	28.1	37.9	1227.0	850.0	2143.0

It may be observed (Table 16) that the states of Manipur remained in defiecient to large defiecient category both annually and during all the four seasons . Haryana and Delhi also remained in Deficient category of rainfall both annually and for the SW Monsoon . During SW Monsoon season, 32 States/UTs received normal , one state received excess rainfall and Dadara, Nagar and Haveli (UT) received Large Excess category of rainfall.

Table 16: % Departure of State-wise Seasonal and Annual Rainfall - Year 2019

STATES	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
EAST & NORTH EAST INDIA					
ARUNACHAL PRADESH	-35%	-26%	-11%	-43%	-16%
ASSAM	-40%	11%	-10%	0%	-7%
MEGHALAYA	-28%	22%	-15%	11%	-3%
NAGALAND	-36%	-16%	-12%	50%	-7%
MANIPUR	-66%	-56%	-54%	-33%	-54%
MIZORAM	-8%	-61%	-8%	-37%	-14%
TRIPURA	36%	-15%	-5%	9%	-6%
SIKKIM	-16%	17%	14%	-49%	8%
WEST BENGAL	137%	6%	-16%	40%	-5%
JHARKHAND	-9%	32%	-19%	58%	-9%
BIHAR	53%	-15%	3%	-42%	0%
NORTH WEST INDIA					
UTTAR PRADESH	38%	-58%	-9%	19%	-9%
UTTARAKHAND	99%	-35%	-18%	89%	-8%
HARYANA	3%	-5%	-42%	39%	-33%
CHANDIGARH (UT)	-9%	-2%	-15%	18%	-12%
DELHI	88%	-48%	-35%	83%	-21%
PUNJAB	108%	-2%	-7%	141%	9%
HIMACHAL PRADESH	45%	-45%	-11%	32%	-6%
JAMMU & KASHMIR	58%	-35%	-14%	89%	5%
RAJASTHAN	-18%	42%	41%	145%	44%
CENTRAL INDIA					

STATE-WISE RAINFALL STATISTICS

STATES	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
ODISHA	-17%	16%	7%	44%	10%
MADHYA PRADESH	-41%	4%	44%	21%	40%
GUJARAT	-37%	-85%	43%	156%	47%
DADRA & NAGAR HAVELI (UT)	-100%	-100%	68%	175%	70%
DAMAN & DIU (UT)	-100%	-100%	34%	117%	36%
GOA	-100%	-96%	32%	180%	37%
MAHARASHTRA	-48%	-77%	32%	89%	36%
CHHATISGARH	21%	-20%	10%	39%	11%
SOUTH PENINSULA					
A & N ISLAND (UT)	138%	-40%	41%	-57%	7%
ANDHRA PRADESH	-23%	-43%	10%	-7%	-2%
TELANGANA	71%	-53%	6%	40%	8%
TAMILNADU	-83%	-59%	17%	1%	-3%
PUDUCHERRY (UT)	-91%	-85%	30%	-13%	-11%
KARNATAKA	-14%	-33%	23%	69%	24%
KERALA	-42%	-53%	13%	27%	7%
LAKSHADWEEP (UT)	12%	-81%	21%	164%	37%

5.2　CATEGORY-WISE SEASONAL AND ANNUAL DISTRIBUTION:

Statewise rainfall statistics for the year 2019 show most of the states in Large Excess/Excess/Normal category both annually and during the Monsoon season. Only 3 state of Manipur , Delhi and Haryana were in deficient category of rainfall. Rainfall data for the states of Dadra & Nagar Haveli was available during the Post-Monsoon and SW Monsoon season. The statistics and chart depicting the number of states in different categories for different seasons and for the year have been given at Table 17 and Figure 67 respectively.

Table 17: Category-wise Number of States - Seasonally and Annually - Year 2018

CATEGORY	WINTER	PRE-MONSOON	SW MONSOON	POST-MONSOON	ANNUAL
L. EXCESS	6	0	1	12	1
EXCESS	6	3	10	10	8
NORMAL	9	11	22	8	24
DEFICIENT	9	14	3	6	3
L. DEFICIENT	3	6	0	0	0
NO RAIN	3	2	0	0	0
NO DATA	0	0	0	0	0

STATE-WISE RAINFALL STATISTICS
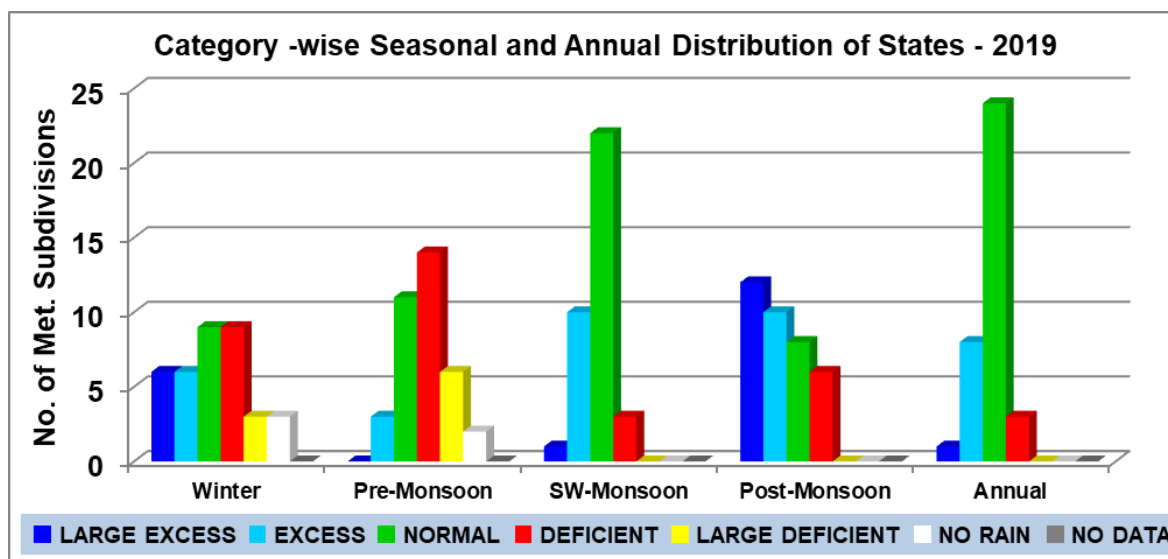
Figure 67: Category-wise distribution of States – Seasonally and Annually

Percent distributions of area of the states of the country under different categories in the four seasons and for the year have been depicted in Figure 68.
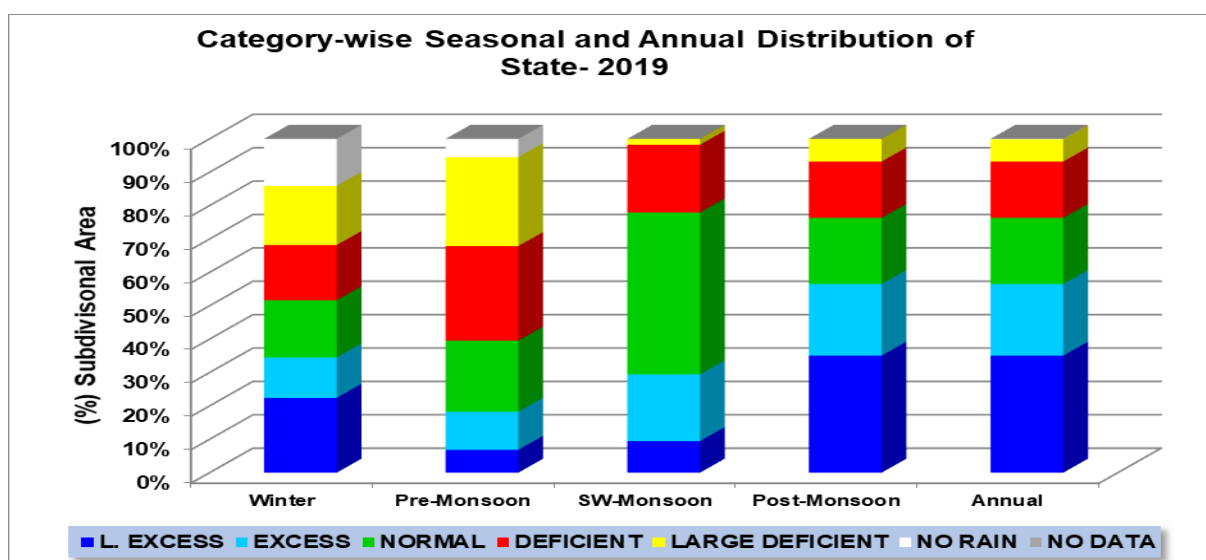
Figure 68: % Area of the country under different categories – Seasonally & Annually

5.3   AREA (%) UNDER RAINFALL DEFICIENCY– SW MONSOON 2019

Area (%) of the 36 states and UTs of India under different categories of rainfall deficiency during SW Monsoon (June-September) have been given below in tabular form in Table 18 and has been depicted in graphical form in Figure 69 as well. During SW Monsoon season 2019, only 1% area of States of the country experienced severe rainfall deficiency and 99% of the statewise area did not rport No deficiency ~~of less than 26%~~

Table 18: Area (%) of States of the country under Rainfall Deficiency – SW Monsoon 2019

Deficiency in Rainfall	Deficiency	% Areaof States of Country
25 % or less	No	98%
26 % or more but < 50 %	Moderate	1%
50 % or more	Severe	1%
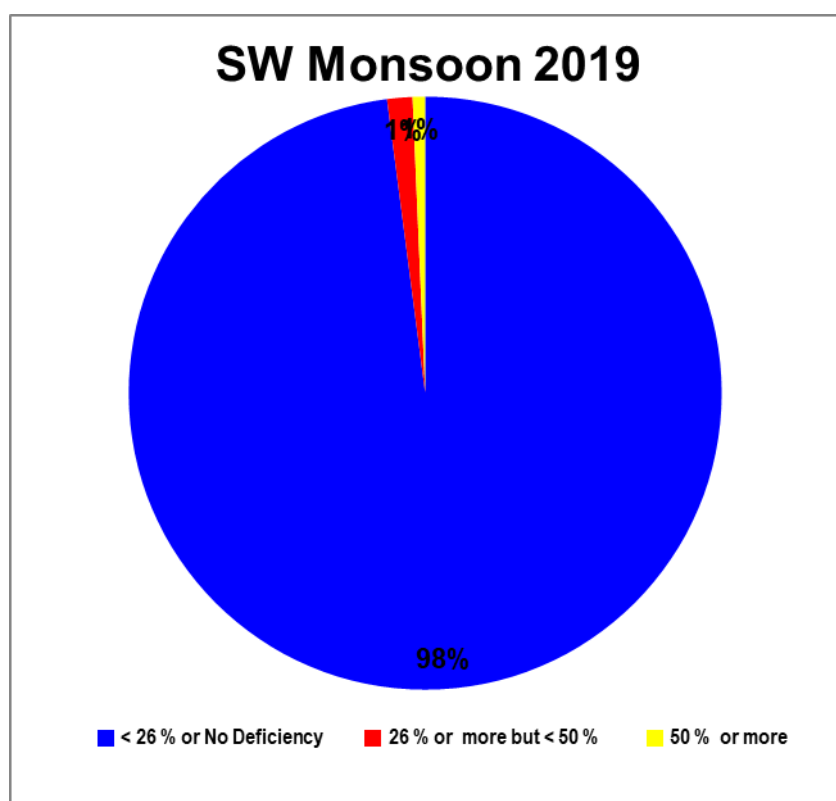
Figure 69: Area (%) of States under Rainfall Deficiency – SW Monsoon 2019

5.4 MONTHLY RAINFALL STATISTICS

Statewise monthly observed rainfall (mm) for the states have been given in Table 19. During SW Monsoon season, monthly highest rainfall occurred 1513.2 mm over the state of Dadra & Nagar Haveli (UT) in the month of July and minimum rainfall occurred 58.7 mm over the state Tamilnadu in the month of July.

Statewise percentage departure of monthly rainfall for the states from their monthly normal rainfall have been given in Table 20. It is observed that months of March and June were the worst performing months when 29 states remained in Deficient/ Large Deficient/ No Rain category of rainfall. Highest number of states in Large excess/excess/Normal category were observed in the months of July and September.

All the states of Central and Peninsula India experienced monthly average rainfall in normal/excess/Large-excess category during months of August, September and October. States in Northwest India region had monthly average rainfall in the normal/excess/Large excess category in the months of November and December.

Table 19: State-wise Monthly Rainfall (mm) - Year 2019

STATES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EAST & NORTH EAST INDIA												
ARUNACHAL PRADESH	10.8	87.2	127.6	116.8	325.5	323.1	719.9	150.9	347.5	116.7	13.9	17.0
ASSAM	2.6	26.0	50.7	179.3	374.1	313.9	550.6	188.7	280.5	147.7	10.8	2.8
MEGHALAYA	1.2	28.6	18.6	344.1	489.6	632.5	1033.4	271.7	495.3	339.6	24.6	1.5
NAGALAND	9.6	17.5	55.5	130.2	128.5	214.6	265.7	243.5	285.8	199.3	38.7	3.4

STATE-WISE RAINFALL STATISTICS

MANIPUR	1.6	12.8	35.8	61.4	62.7	168.8	179.3	109.6	184.5	108.4	33.2	9.6
MIZORAM	0.5	28.4	18.5	53.0	181.3	296.1	722.0	263.2	245.6	121.9	41.6	3.1
TRIPURA	0.0	48.1	34.3	209.9	328.7	329.1	639.6	196.2	224.1	193.0	46.1	3.7
SIKKIM	16.8	73.5	168.7	170.2	375.8	415.8	597.1	327.4	484.8	81.9	6.5	21.7
WEST BENGAL	0.1	73.7	38.7	75.8	135.9	167.1	363.3	313.7	341.9	167.0	48.2	8.0
JHARKHAND	0.9	24.6	19.0	43.9	47.4	89.3	243.1	260.5	265.9	129.8	0.0	13.2
BIHAR	5.1	25.7	3.1	32.4	33.4	97.8	418.5	140.4	392.7	25.5	0.0	16.6
NORTH WEST INDIA												
UTTAR PRADESH	13.5	23.9	5.1	4.8	3.2	40.2	296.9	169.1	213.8	18.7	4.7	25.7
UTTARAKHAND	76.3	125.4	33.8	39.5	27.8	84.3	288.8	360.1	228.6	32.0	24.0	58.2
HARYANA	14.6	17.1	7.8	11.4	17.7	18.9	131.0	83.6	21.7	5.0	13.1	9.7
CHANDIGARH (UT)	20.0	56.8	24.4	35.2	20.4	24.8	321.4	230.2	140.1	0.3	35.8	29.4
DELHI	34.8	23.1	5.1	7.9	13.5	6.6	167.4	149.2	57.4	13.5	4.5	22.6
PUNJAB	28.1	73.1	9.4	23.9	20.9	24.9	183.6	156.4	69.6	9.1	25.8	28.3
HIMACHAL PRADESH	84.7	194.7	60.7	32.5	41.3	55.5	213.9	320.6	93.1	21.8	49.0	50.2
JAMMU & KASHMIR	140.0	216.9	84.6	57.4	76.4	84.3	194.1	163.7	43.1	30.7	158.9	65.0
RAJASTHAN	5.4	2.2	1.3	11.6	17.0	46.3	173.4	248.2	115.8	22.3	17.7	3.8
CENTRAL INDIA												
ODISHA	1.3	22.9	24.9	38.9	84.9	146.6	300.7	445.2	339.9	176.1	10.7	1.8
MADHYA PRADESH	5.8	6.9	6.8	9.5	1.9	70.4	360.5	482.6	437.6	47.9	5.0	11.9
GUJARAT	0.5	0.3	0.0	0.6	0.1	84.8	188.1	401.8	318.7	52.4	19.1	1.5
DADRA & NAGAR HAVELI (UT)	0.0	0.0	0.0	0.0	0.0	364.7	1513.2	941.3	803.7	106.1	44.8	0.0
DAMAN & DIU (UT)	0.0	0.0	0.0	0.0	0.0	236.8	701.7	600.8	622.3	43.4	64.9	0.3
GOA	0.0	0.0	0.0	1.7	1.7	781.7	1302.7	1143.4	689.8	547.7	20.7	0.1
MAHARASHTRA	3.7	0.5	2.0	3.8	0.8	155.6	448.1	381.2	345.1	162.8	21.5	1.8
CHHATISGARH	14.9	10.9	12.2	8.2	12.3	129.4	369.1	409.1	348.1	100.3	0.7	5.2
SOUTH PENINSULA												
A & N ISLAND (UT)	173.8	5.8	15.8	35.3	230.9	662.2	212.0	860.4	596.8	136.6	131.9	24.5
ANDHRA PRADESH	11.5	1.2	4.1	17.7	30.3	61.4	125.4	149.4	229.1	217.4	20.4	31.2
TELANGANA	23.2	1.5	2.1	13.9	11.6	85.8	219.9	260.0	241.2	160.3	9.4	3.0
TAMILNADU	2.1	2.7	3.1	18.6	29.9	33.6	58.7	133.3	176.0	224.5	124.5	103.1
PUDUCHERRY (UT)	0.0	5.0	0.0	3.1	13.7	30.5	125.7	176.0	221.0	295.3	218.4	261.4
KARNATAKA	0.8	3.7	3.3	26.4	48.2	151.2	252.3	395.8	232.8	268.7	28.8	10.3
KERALA	0.7	12.4	13.9	93.5	62.1	359.0	574.3	950.5	426.0	471.4	119.2	36.2
LAKSHADWEEP (UT)	0.0	28.1	4.1	22.4	11.4	242.5	489.4	338.4	156.7	503.4	40.0	306.7
Country as a whole	18.5	33.1	18.7	31.5	51.3	113.5	298.8	299.9	259.5	110.1	31.6	19.2

Table20: % Departure of State-wise monthly rainfall - Year 2019

METEOROLOGICAL SUBDIVISIONS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EAST & NORTH EAST INDIA	-78%	30%	-27%	-19%	1%	-36%	12%	-38%	14%	0%	-26%	-19%
ARUNACHAL PRADESH	-77%	-12%	-30%	-62%	13%	-34%	37%	-58%	-1%	-37%	-70%	-54%
ASSAM & MEGHALAYA	-84%	-16%	-42%	7%	25%	-23%	17%	-49%	4%	20%	-51%	-77%
N M M T	-71%	-4%	-43%	-26%	-42%	-38%	14%	-42%	-17%	-9%	-10%	-58%
SHWB & SIKKIM	-73%	20%	14%	5%	-10%	-25%	22%	-43%	27%	-29%	-75%	-34%

STATE-WISE RAINFALL STATISTICS

REGION												
GANGETIC WEST BENGAL	-99%	341%	39%	23%	12%	-57%	-36%	6%	7%	44%	193%	37%
JHARKHAND	-92%	54%	26%	124%	-2%	-55%	-25%	-13%	13%	74%	-99%	100%
BIHAR	-49%	154%	-61%	94%	-41%	-42%	20%	-51%	82%	-59%	-100%	208%
NORTH WEST INDIA	38%	67%	-45%	-27%	-17%	-29%	1%	2%	11%	-3%	303%	40%
EAST U.P.	-5%	64%	-29%	-49%	-91%	-52%	24%	-38%	54%	-33%	-70%	227%
WEST U.P.	33%	59%	-39%	37%	-67%	-71%	-10%	-32%	-26%	-58%	158%	394%
UTTARAKHAND	83%	110%	-38%	14%	-58%	-53%	-29%	-9%	18%	-9%	234%	223%
HAR. CHD & DELHI	7%	5%	-36%	44%	-9%	-61%	-16%	-46%	-72%	-47%	240%	55%
PUNJAB	34%	164%	-60%	77%	17%	-51%	4%	-2%	-14%	2%	397%	132%
HIMACHAL PRADESH	-6%	89%	-45%	-50%	-38%	-45%	-22%	22%	-27%	-21%	141%	15%
JAMMU & KASHMIR	49%	65%	-45%	-44%	-5%	14%	-5%	-12%	-58%	-15%	376%	0%
WEST RAJASTHAN	88%	-72%	-64%	39%	84%	-32%	-5%	59%	40%	147%	905%	97%
EAST RAJASTHAN	23%	-50%	-77%	376%	-32%	9%	23%	73%	104%	107%	-26%	-2%
CENTRAL INDIA	-37%	-13%	-11%	14%	-29%	-31%	9%	39%	107%	100%	-21%	-25%
ODISHA	-89%	34%	6%	15%	20%	-33%	-13%	22%	50%	76%	-56%	-73%
WEST MADHYA PRADESH	-82%	-7%	-61%	370%	-74%	-26%	31%	64%	168%	87%	-35%	-45%
EAST MADHYA PRADESH	-26%	-49%	25%	86%	-73%	-58%	-1%	27%	124%	10%	-95%	93%
GUJARAT REGION	-100%	-25%	-100%	37%	-96%	-18%	-22%	75%	100%	280%	44%	-35%
SAURASHTRA & KUTCH	128%	-55%	-99%	5%	-97%	-34%	-33%	118%	343%	149%	117%	62%
KONKAN & GOA	-100%	-100%	-100%	-79%	-99%	-7%	52%	43%	191%	133%	11%	-96%
MADHYA MAHARASHTRA	-100%	-100%	-41%	-27%	-93%	-21%	64%	98%	65%	176%	6%	-78%
MARATHWADA	-100%	-87%	-95%	-17%	-96%	-33%	-18%	-28%	32%	217%	37%	-78%
VIDARBHA	8%	-83%	-63%	-59%	-96%	-46%	11%	5%	92%	-3%	-24%	-68%
CHHATTISGARH	34%	7%	15%	-34%	-32%	-33%	-2%	12%	67%	69%	-93%	-26%
SOUTH PENINSULA	21%	-62%	-72%	-27%	-50%	-30%	-10%	57%	49%	54%	-45%	4%
A & N ISLAND	237%	-76%	-43%	-52%	-37%	60%	-47%	110%	39%	-52%	-45%	-84%
COASTAL A. P.& YANAM	8%	-89%	-48%	1%	-56%	-37%	8%	9%	41%	32%	-83%	-5%
TELANGANA	201%	-78%	-82%	-19%	-61%	-35%	-7%	14%	47%	73%	-61%	-56%
RAYALASEEMA	263%	-79%	-99%	-42%	-37%	-23%	-31%	2%	66%	30%	-70%	53%
TAMIL., PUDU. & KARAIKAL	-86%	-79%	-86%	-54%	-54%	-38%	-23%	42%	49%	27%	-30%	13%
COASTAL KARNATAKA	-100%	-64%	-55%	-14%	-84%	-33%	7%	71%	108%	179%	-16%	9%
N. I. KARNATAKA	-75%	-98%	-35%	-16%	-63%	1%	6%	70%	13%	109%	-17%	-61%
S. I. KARNATAKA	-52%	106%	-82%	-22%	-8%	-29%	-22%	102%	44%	83%	-39%	40%
KERALA & MAHE	-92%	-11%	-57%	-11%	-72%	-44%	-20%	123%	64%	55%	-22%	4%
LAKSHADWEEP	-100%	187%	-62%	-36%	-93%	-27%	66%	52%	-5%	254%	-68%	466%
COUNTRY AS A WHOLE	7%	41%	-38%	-20%	-17%	-32%	5%	16%	52%	45%	4%	11%

5.5   MONTHLY CATEGORY-WISE DISTRIBUTION:

The statistics and chart depicting the monthly distribution of number of states in different categories during the year have been given at Table 21 and Figure 70 respectively.

More states remained in Deficient/Large-Deficient /No Rain rainfall category during the months of January, March, May and June However, during the months of February, April, July-October and December most of the states experienced monthly averaged rainfall in Large Excess/ Excess /Normal category.

Table 21: Category-wise Number of States - Monthly - Year 2019

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
L. EXCESS	5	9	0	6	0	1	3	6	11	12	11	8
EXCESS	4	6	3	4	4	0	8	9	9	7	2	4
NORMAL	3	6	4	11	8	6	16	9	10	7	4	10
DEFICIENT	7	5	12	9	12	25	9	11	5	9	10	4
L. DEFICIENT	11	7	13	4	10	4	0	1	1	1	8	9
NO RAIN	6	3	4	2	2	0	0	0	0	0	1	1
NO DATA	0	0	0	0	0	0	0	0	0	0	0	0
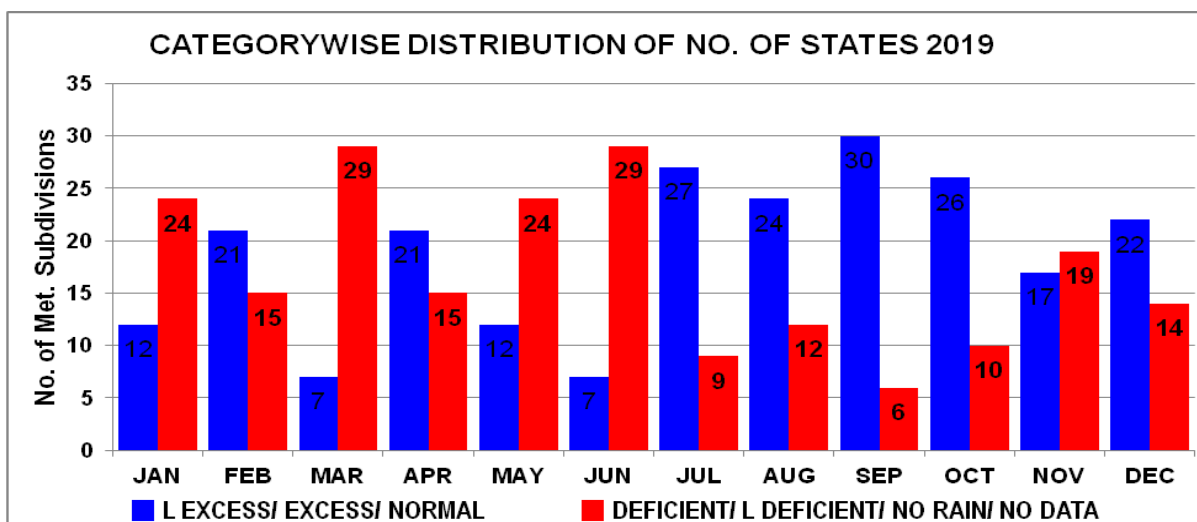
Figure 70: Category-wise distribution of States – Monthly – Year 2019

5.6   DAILY RAINFALL DISTRIBUTION – SW MONSOON 2019

Daily observed rainfall distributions for each of the total 36 states & UTs along with their daily rainfall normals, region-wise, have been depicted in Figure 71 through Figure 106.

REGION: NORTH WEST INDIA
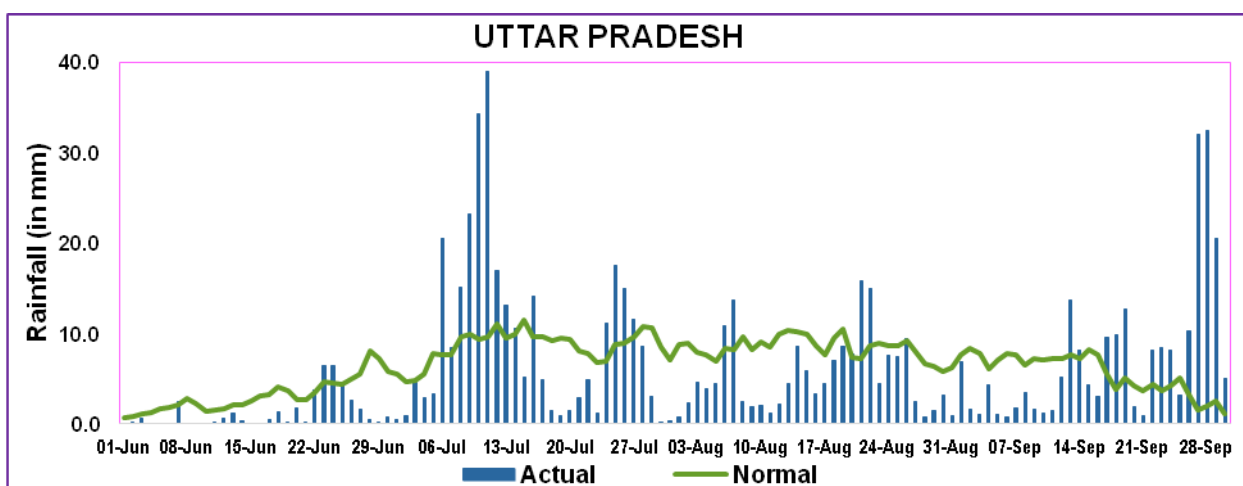
Figure 71: Uttar Pradesh - Rainfall Distribution - SW Monsoon 2019
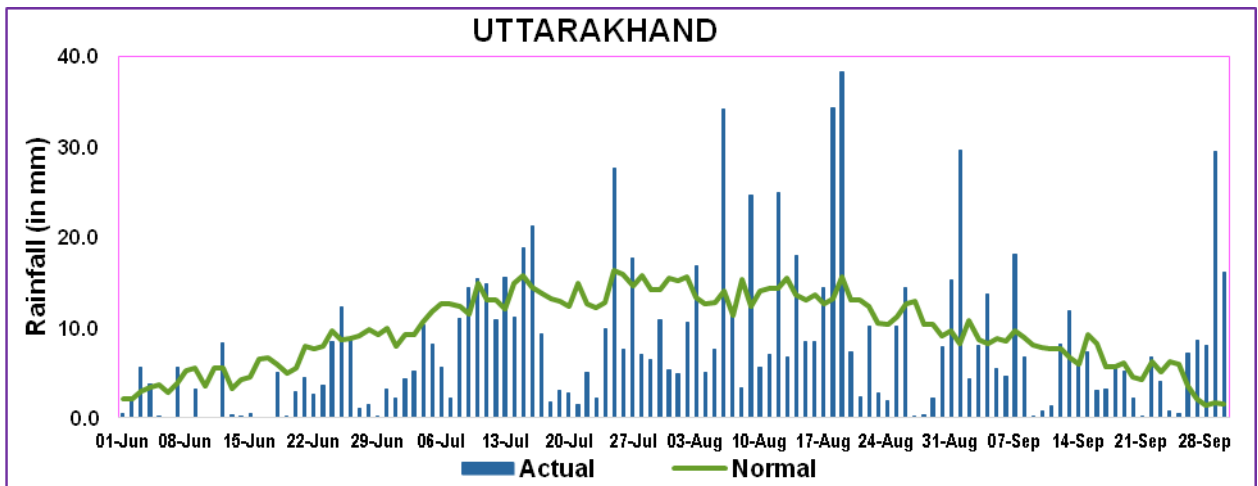
Figure 72: Uttarakhnad - Rainfall Distribution - SW Monsoon 2019
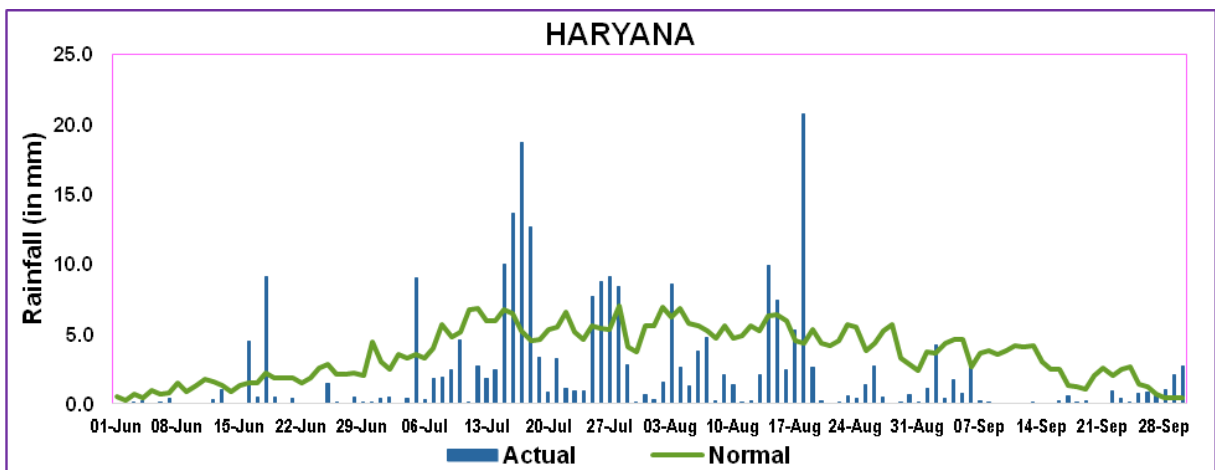
Figure 73: Haryana - Rainfall Distribution - SW Monsoon 2019
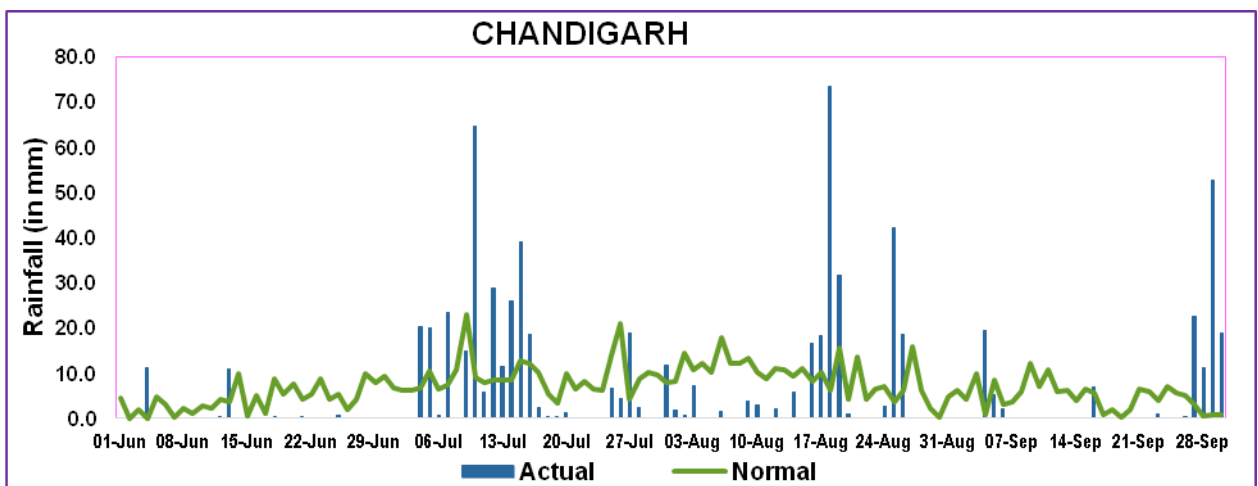
Figure 74: Chandigarh - Rainfall Distribution - SW Monsoon 2019

STATE-WISE RAINFALL STATISTICS
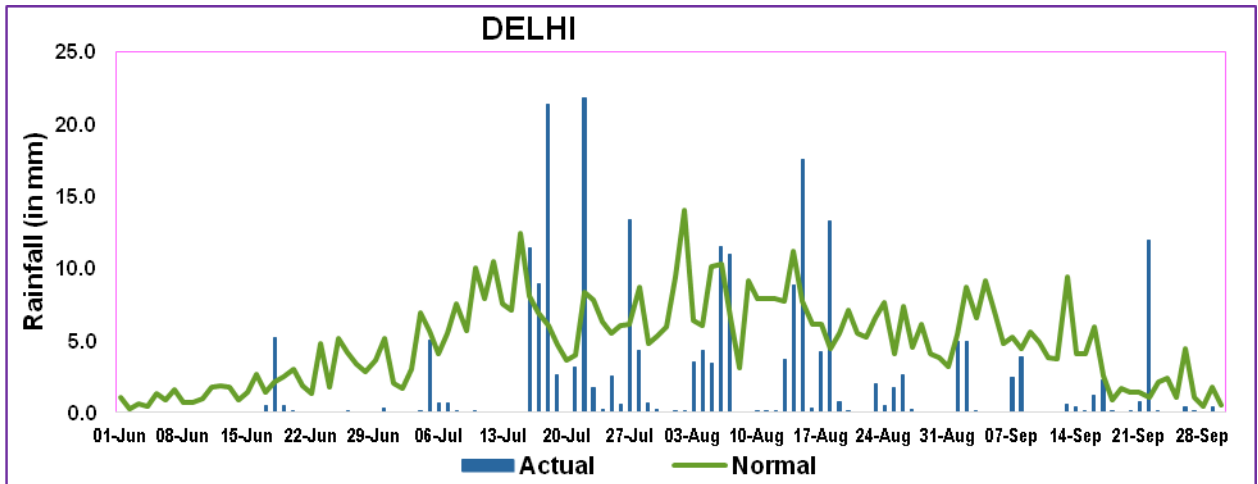
Figure 75: Delhi - Rainfall Distribution - SW Monsoon 2019
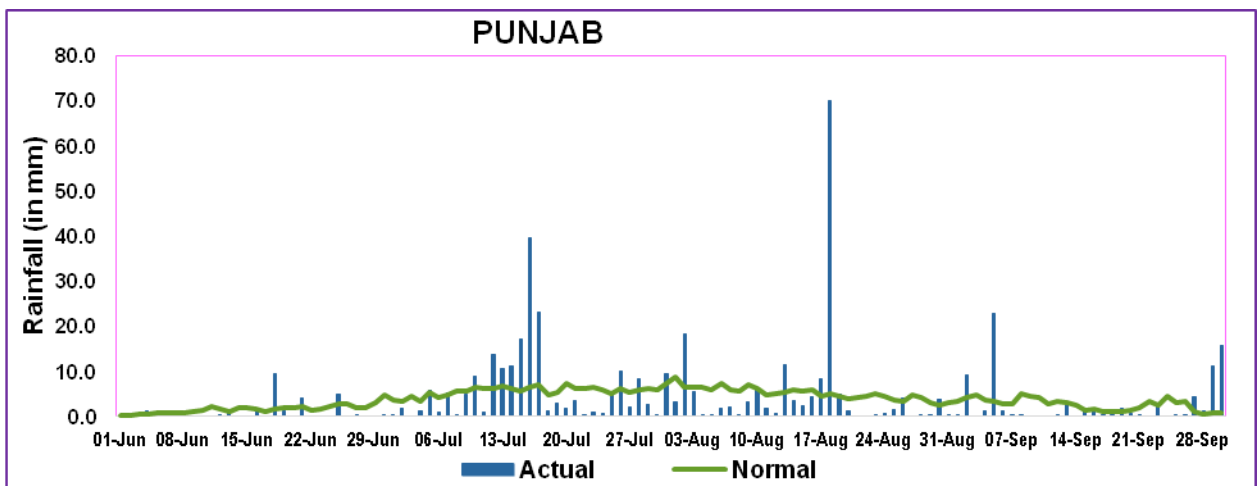
Figure 76: Punjab - Rainfall Distribution - SW Monsoon 2019
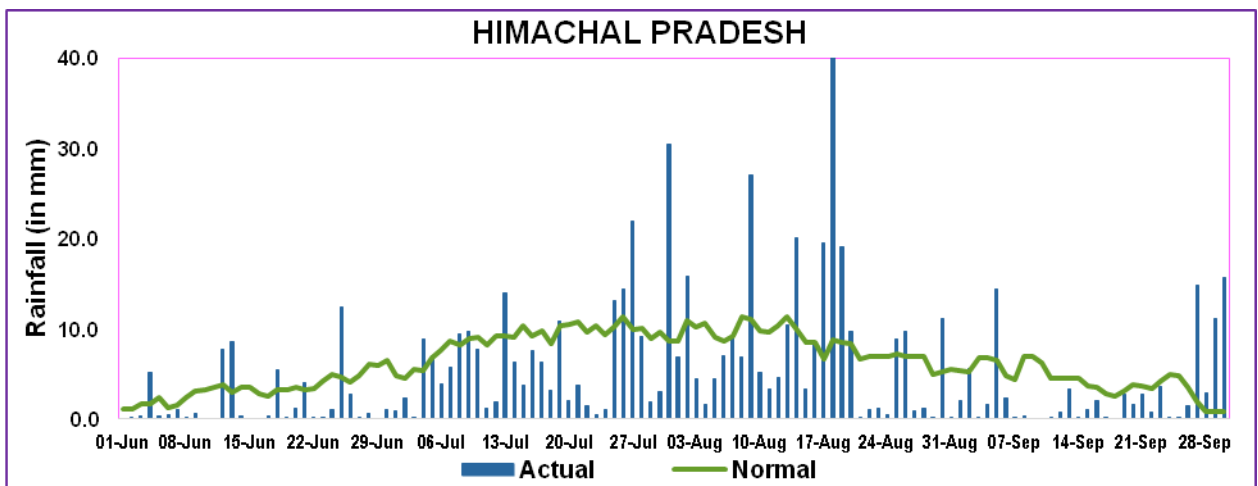
Figure 77: Himachal Pradesh - Rainfall Distribution - SW Monsoon 2019
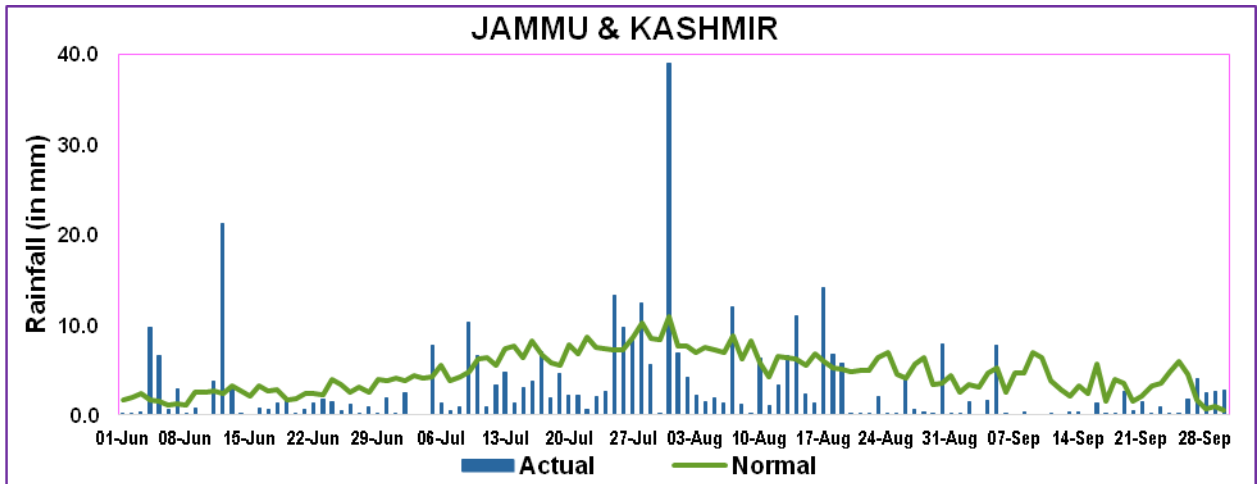
Figure 77: Jammu & Kashmir - Rainfall Distribution - SW Monsoon 2019
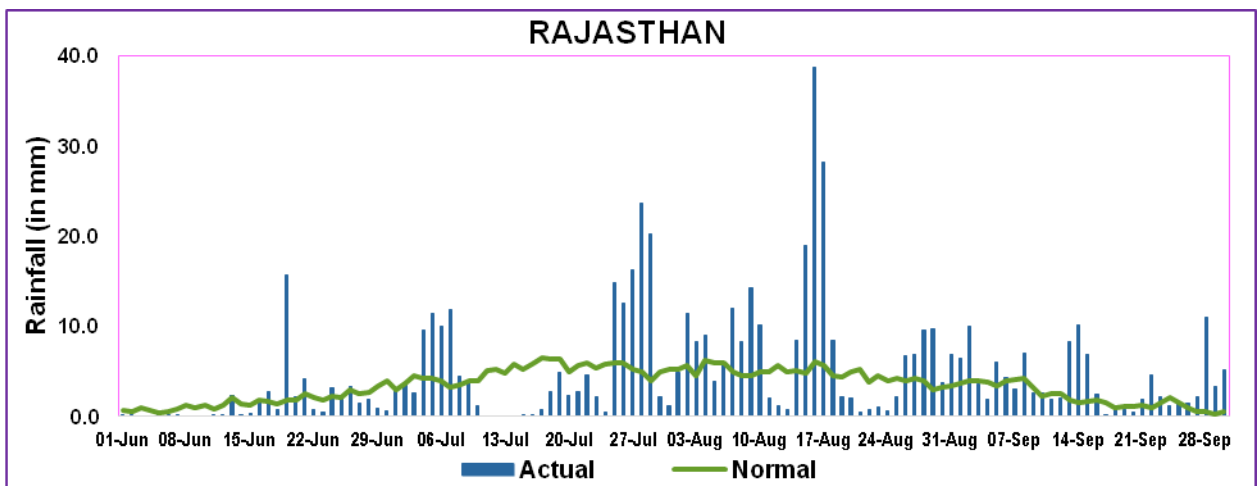
Figure 79: Rajasthan - Rainfall Distribution - SW Monsoon 2019

STATE-WISE RAINFALL STATISTICS

REGION: CENTRAL INDIA
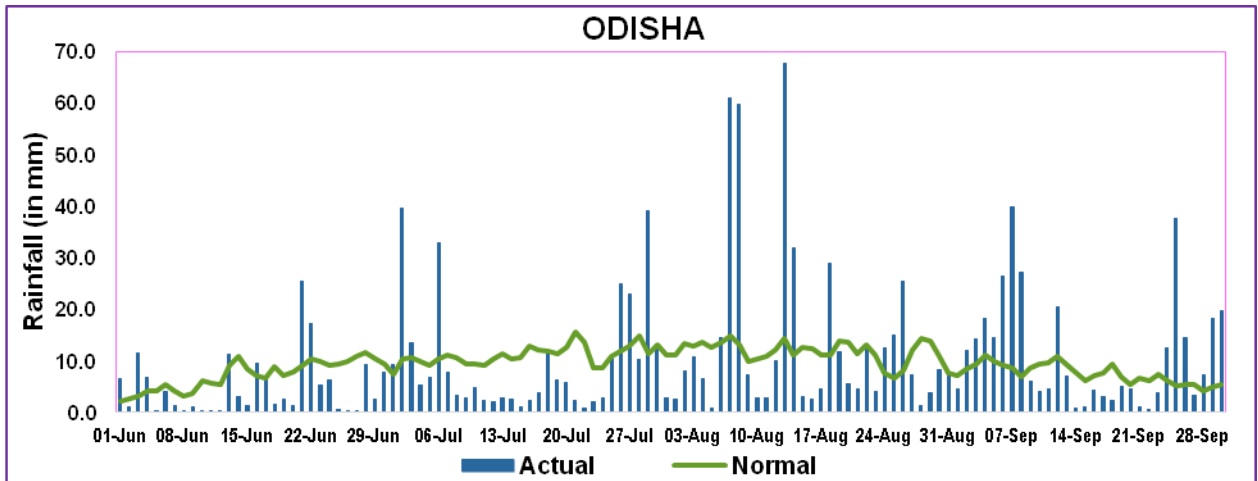
Figure 80: Odisha - Rainfall Distribution - SW Monsoon 2019
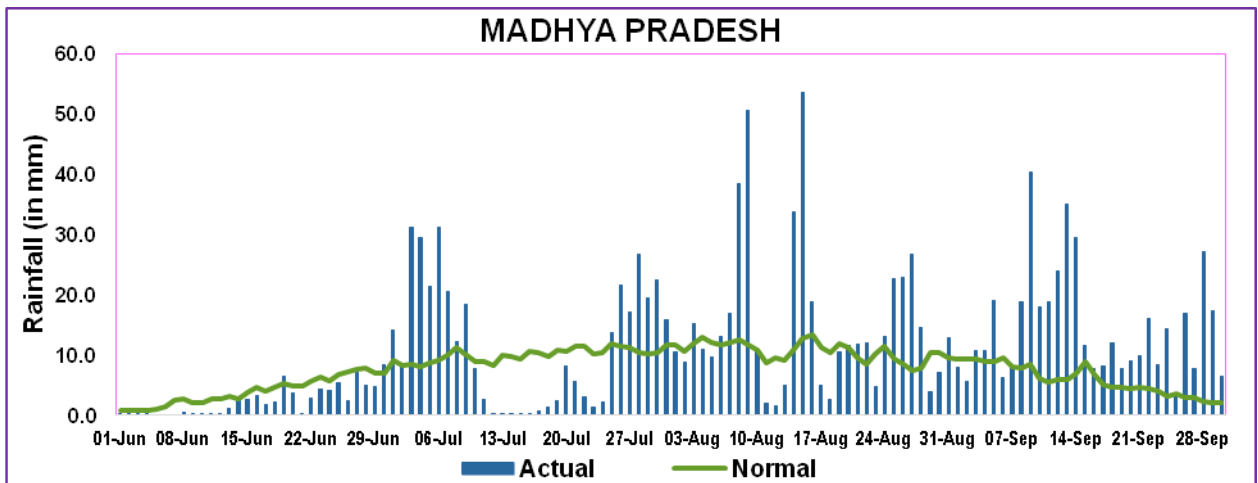
Figure 81: Madhya Pradesh - Rainfall Distribution - SW Monsoon 2019
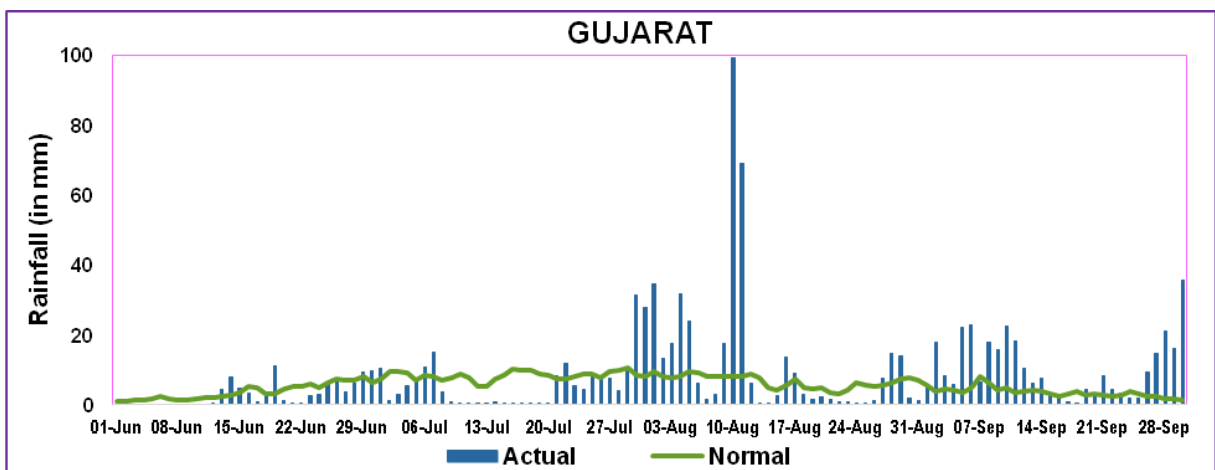
Figure 82: Gujarat - Rainfall Distribution - SW Monsoon 2019
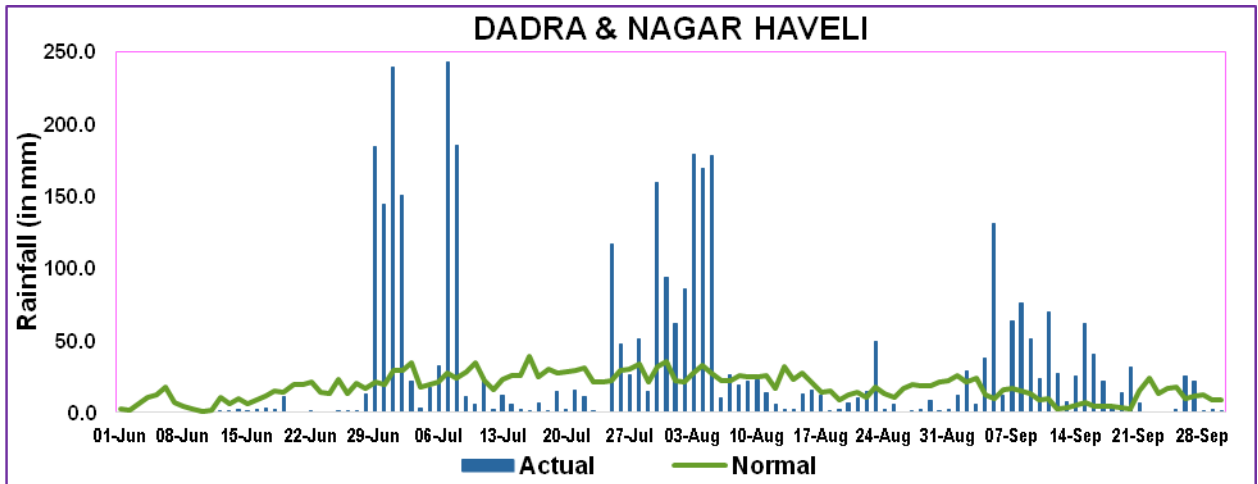
Figure 83: Dadra & Nagar Haveli - Rainfall Distribution - SW Monsoon 2019

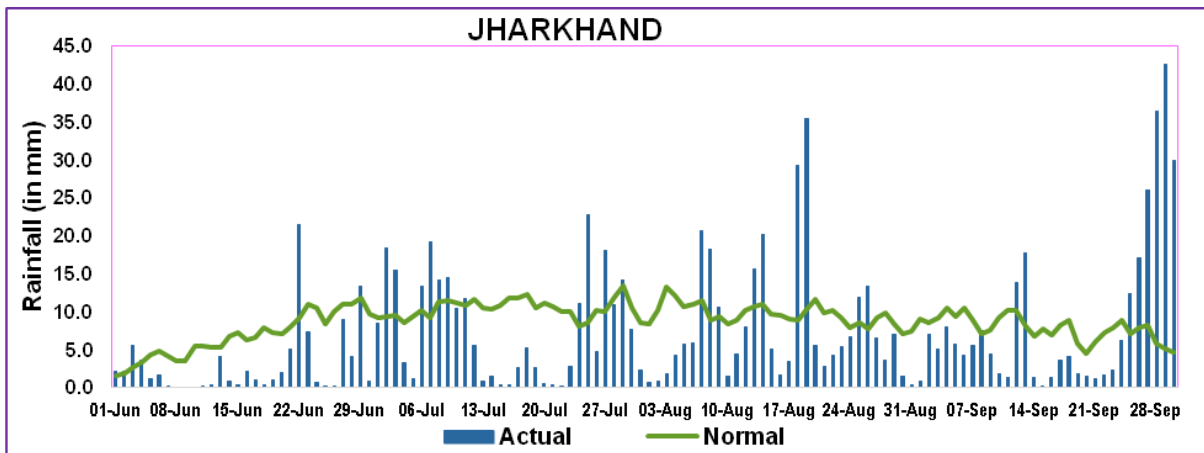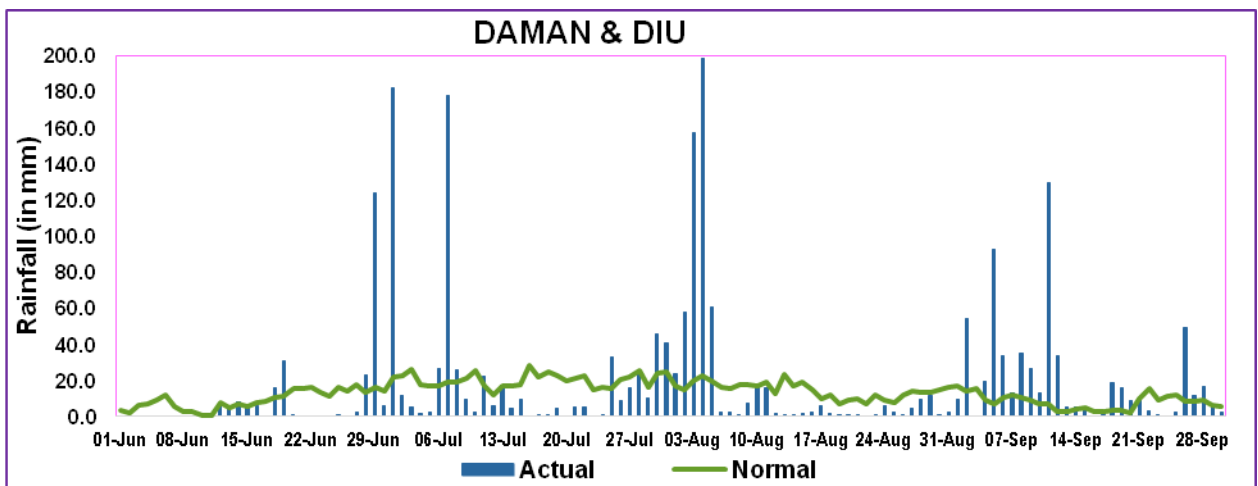**Figure 84: Daman & Diu - Rainfall Distribution - SW Monsoon 2019**
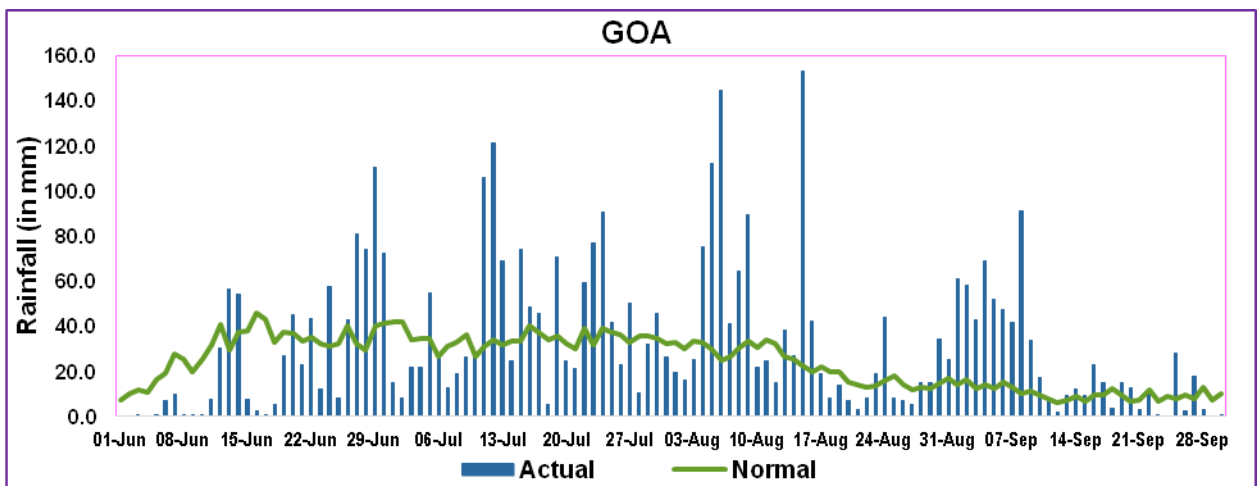
Figure 85: Goa - Rainfall Distribution - SW Monsoon 2019

STATE-WISE RAINFALL STATISTICS
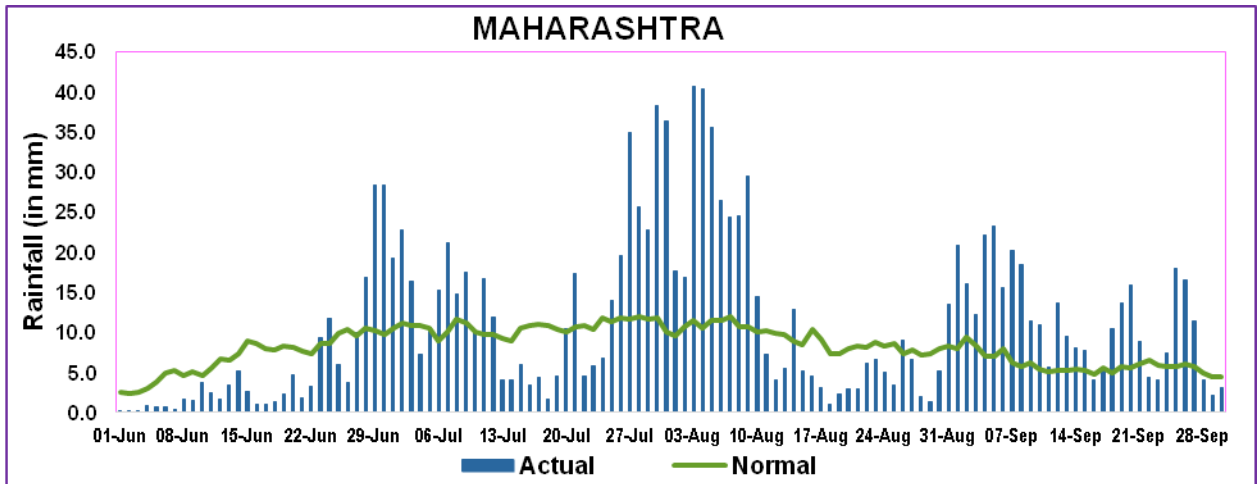
Figure 86: Maharashtra - Rainfall Distribution - SW Monsoon 2019
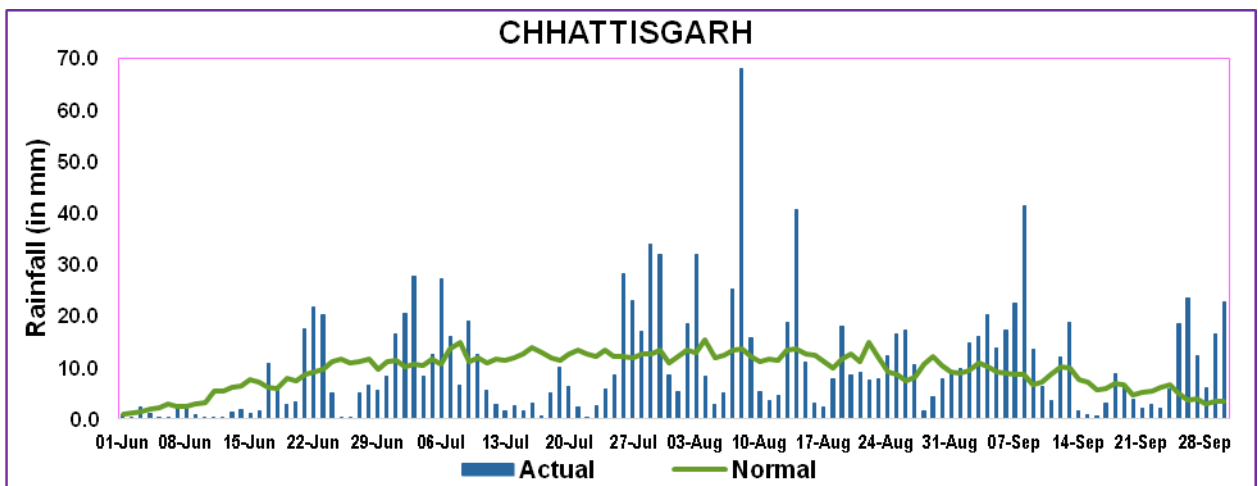
Figure 87: Chhattisgarh - Rainfall Distribution - SW Monsoon 2019

REGION: SOUTH PENINSULA
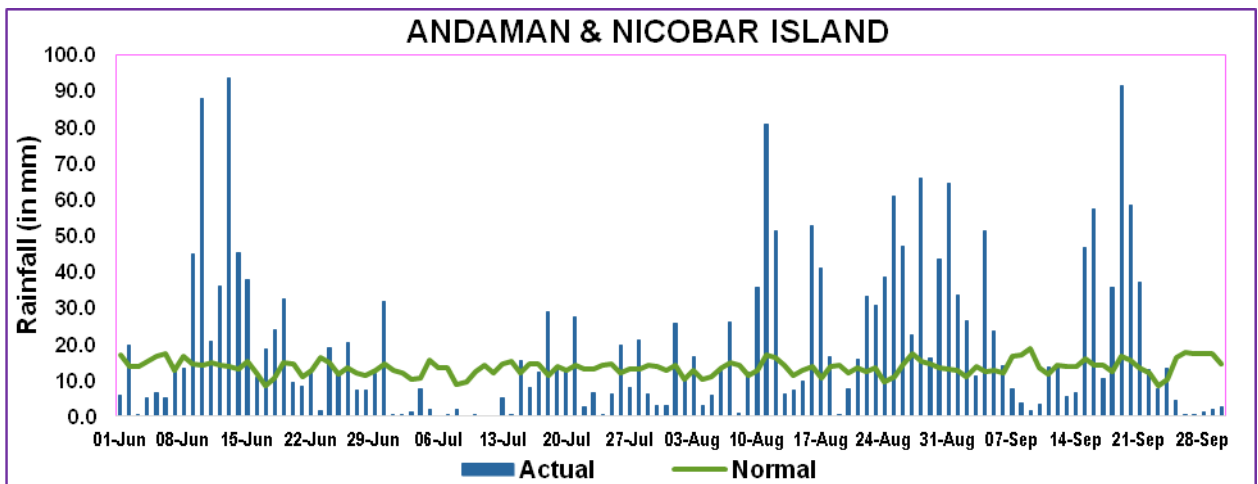
Figure 88: A & N Island - Rainfall Distribution - SW Monsoon 2019
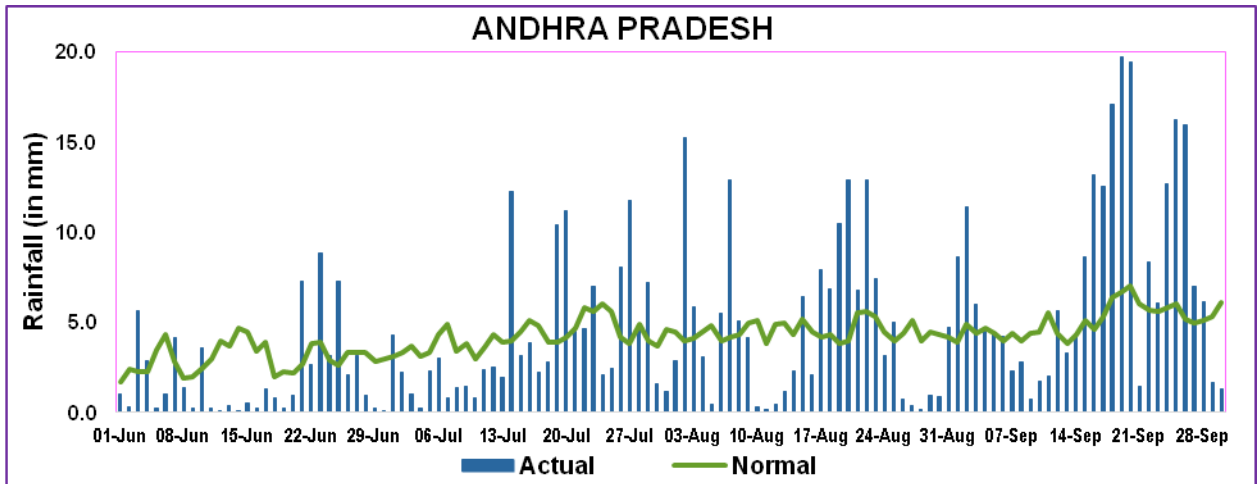
Figure 89: Andhra Pradesh - Rainfall Distribution - SW Monsoon 2019
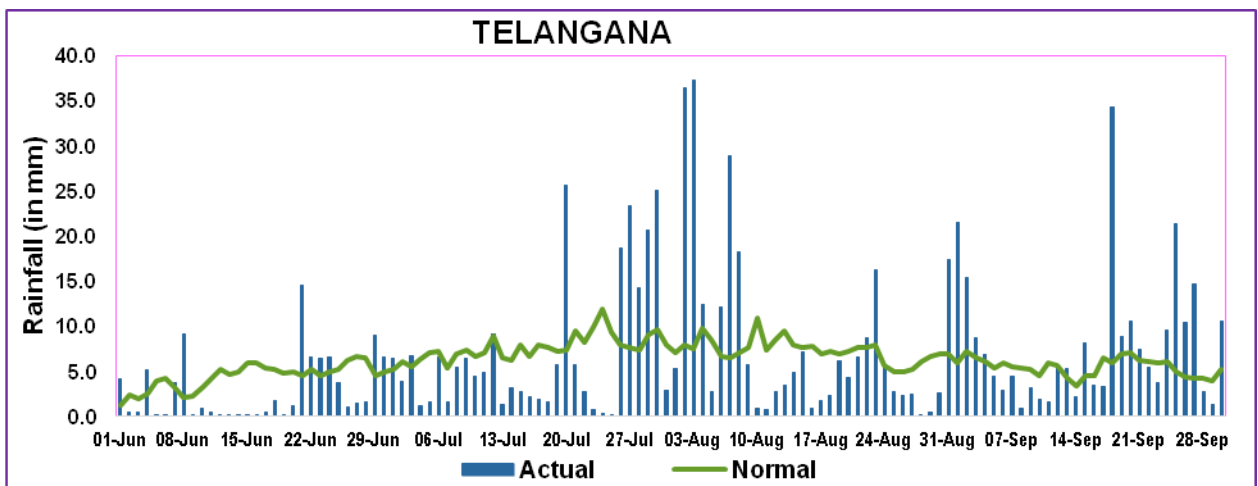
Figure 90: Telangana - Rainfall Distribution - SW Monsoon 2019
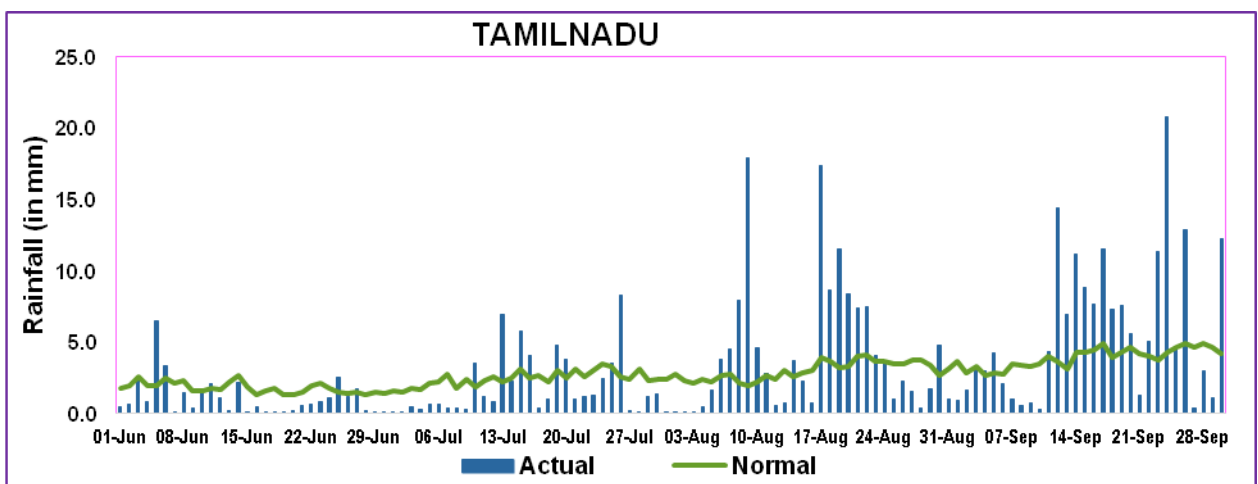
Figure 91: Tamilnadu - Rainfall Distribution - SW Monsoon 2019
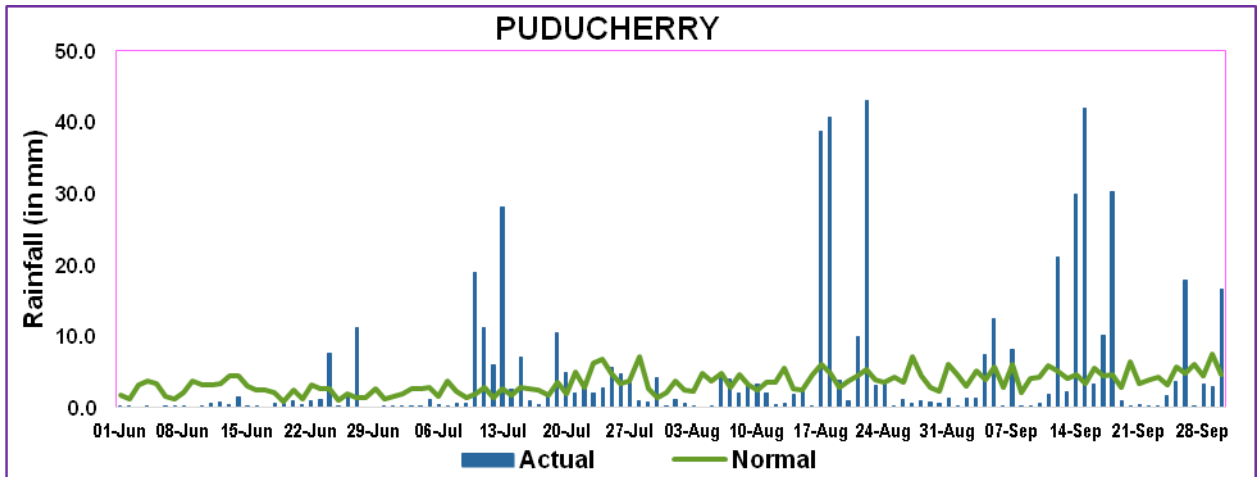
Figure 92: Puducherry - Rainfall Distribution - SW Monsoon 2019
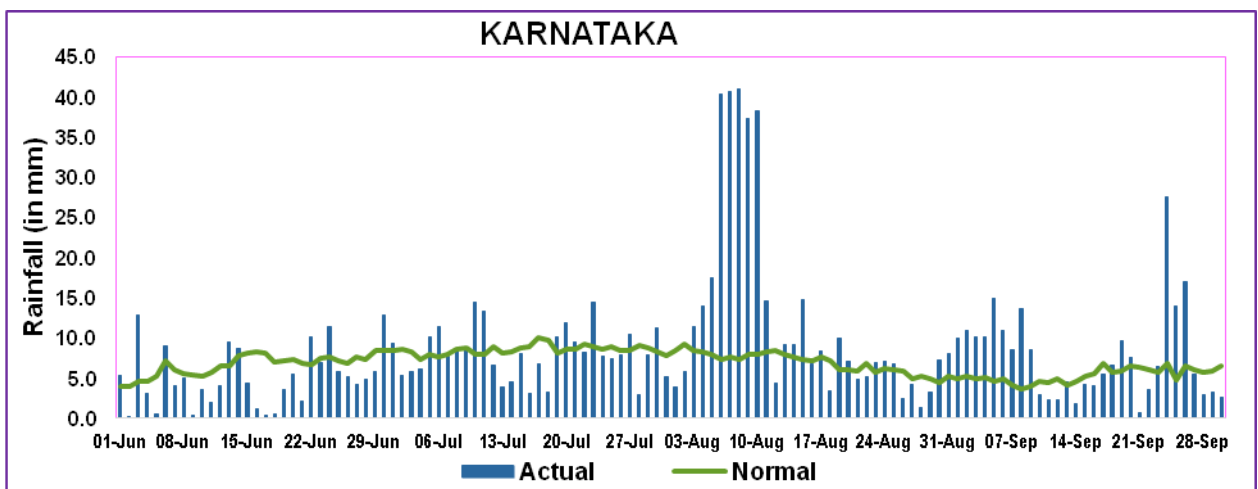
Figure 93: Karnatka - Rainfall Distribution - SW Monsoon 2019
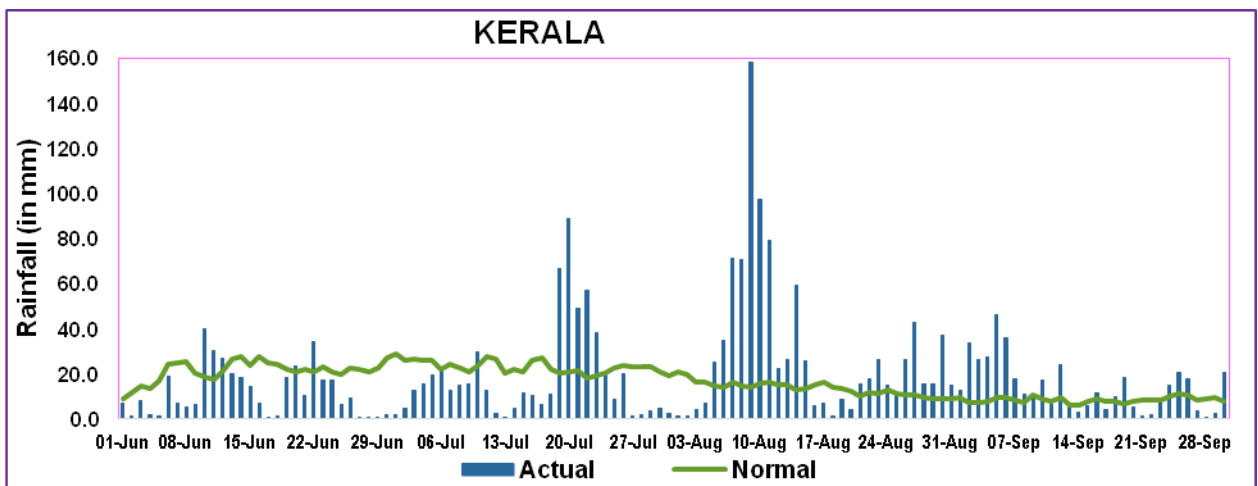
Figure 94: Kerala - Rainfall Distribution - SW Monsoon 2019
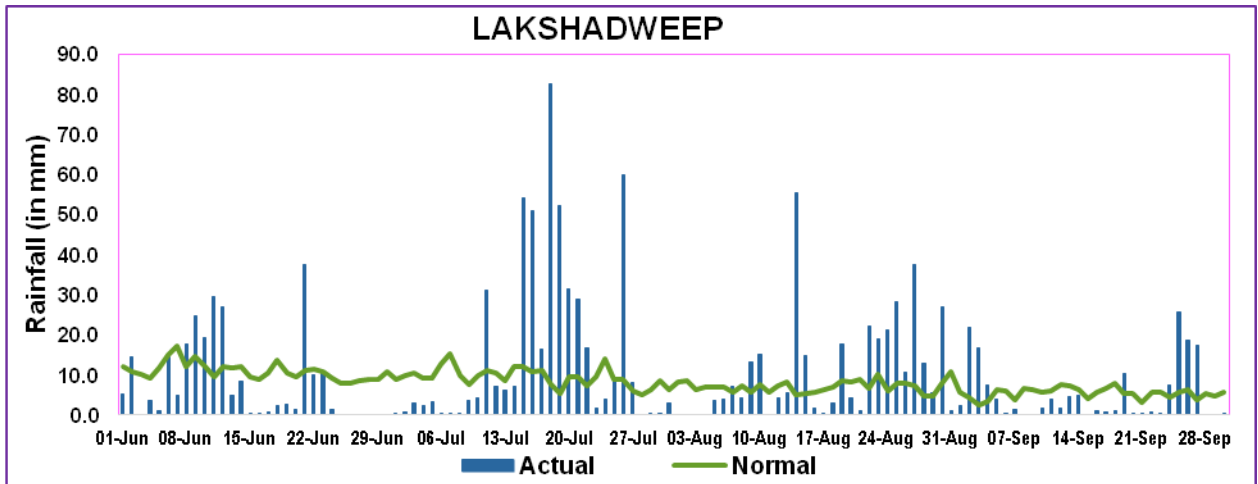
Figure 95: Lakshadweep - Rainfall Distribution - SW Monsoon 2019

REGION: EAST & NORTH EAST INDIA
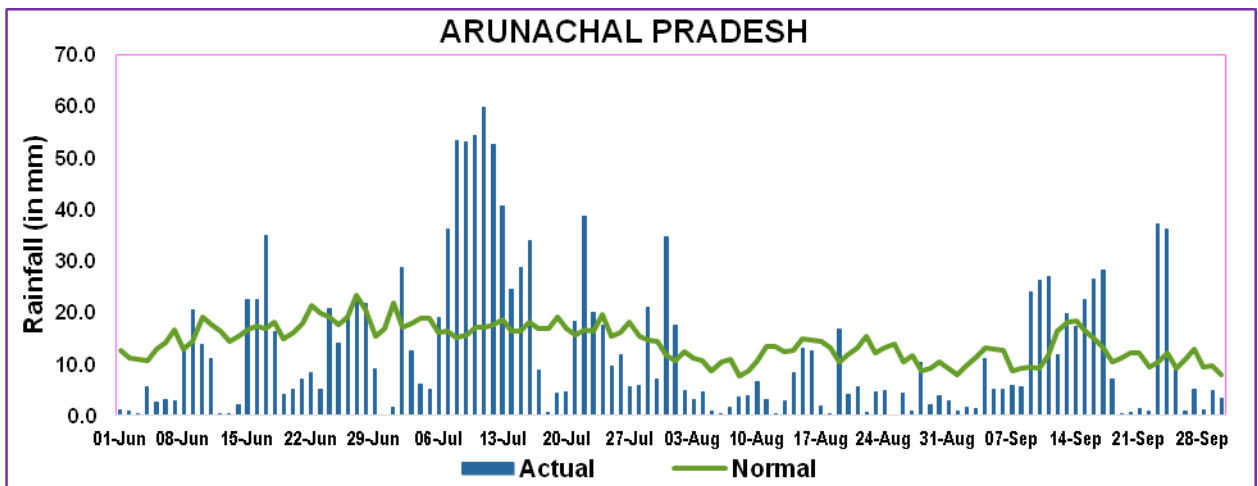
Figure 96: Arunachal Pradesh - Rainfall Distribution - SW Monsoon 2019
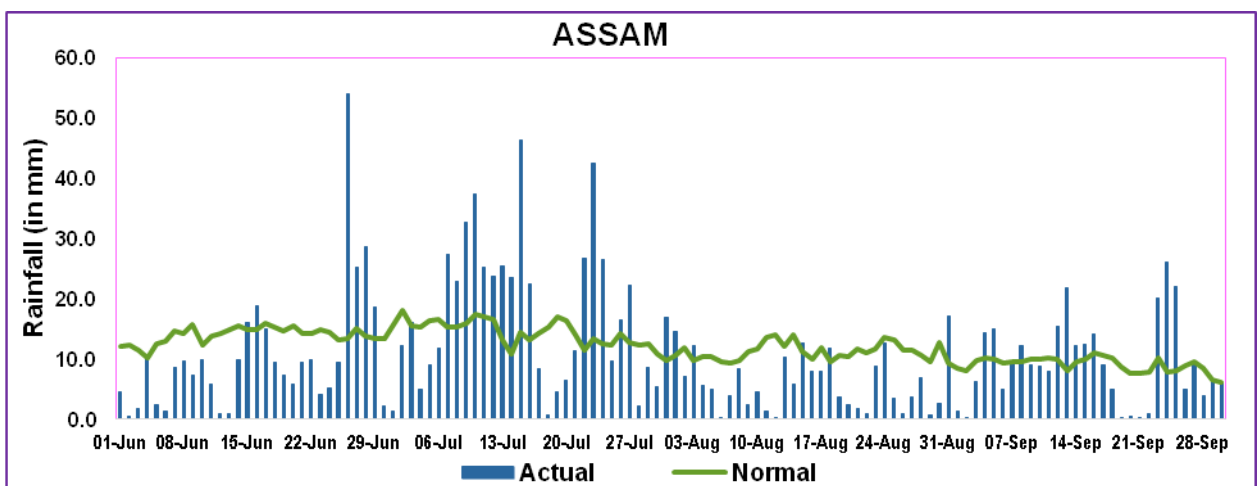
Figure 97: Assam - Rainfall Distribution - SW Monsoon 2019
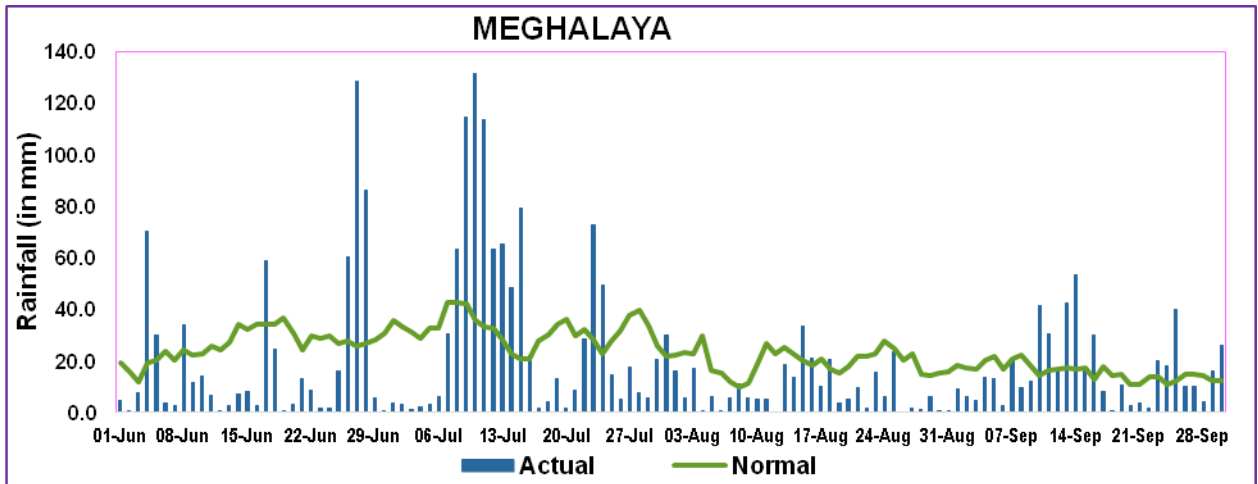
MEGHALAYA

Figure 98: Meghalaya - Rainfall Distribution - SW Monsoon 2019
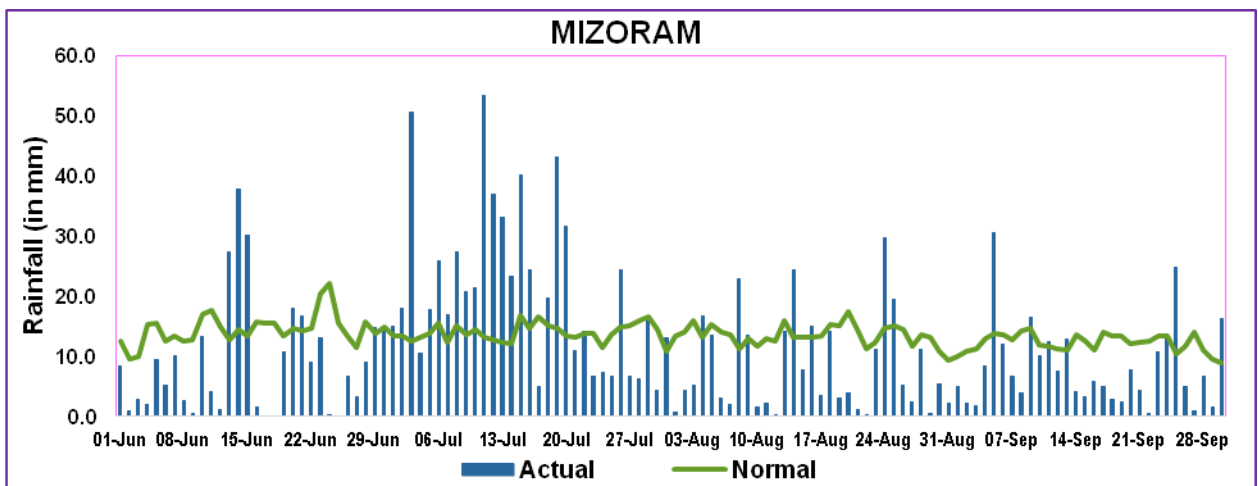
MIZORAM

Figure 99: Mizoram - Rainfall Distribution - SW Monsoon 2019
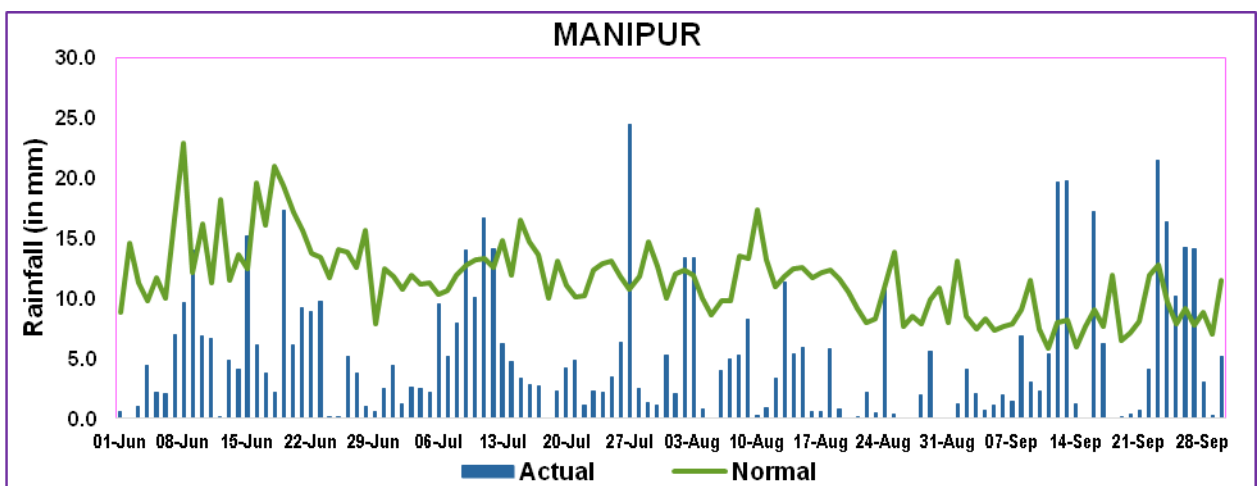
MANIPUR

Figure 100: Manipur - Rainfall Distribution - SW Monsoon 2019

STATE-WISE RAINFALL STATISTICS
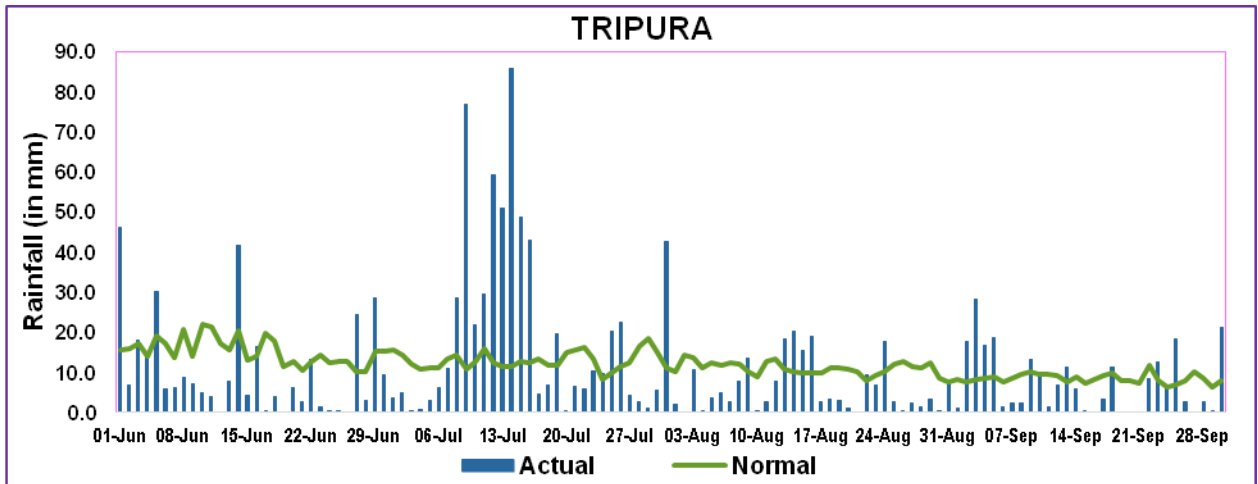
Figure 101: Tripura - Rainfall Distribution - SW Monsoon 2019
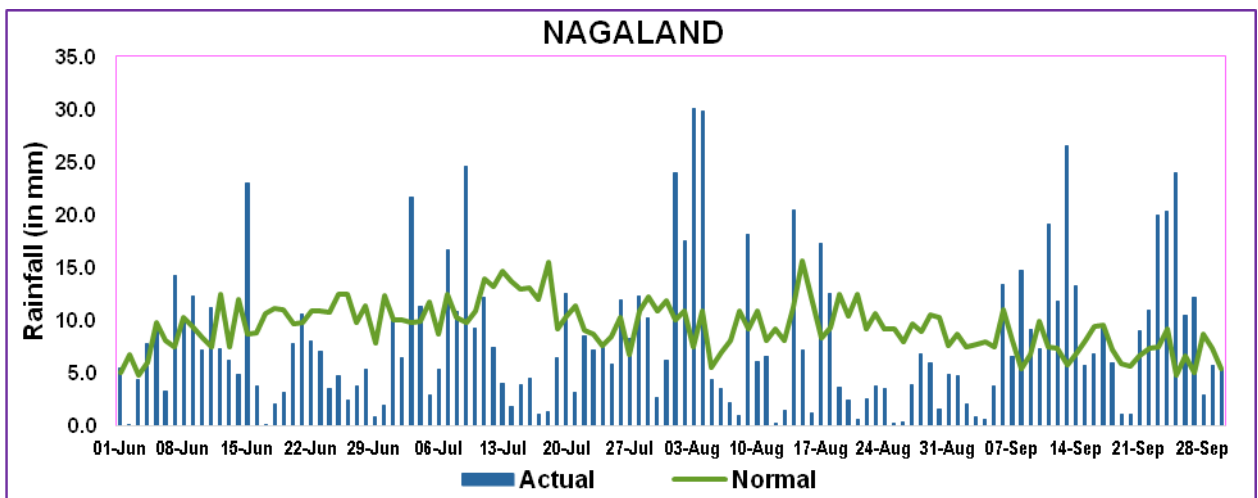
Figure 102: Nagaland - Rainfall Distribution - SW Monsoon 2019
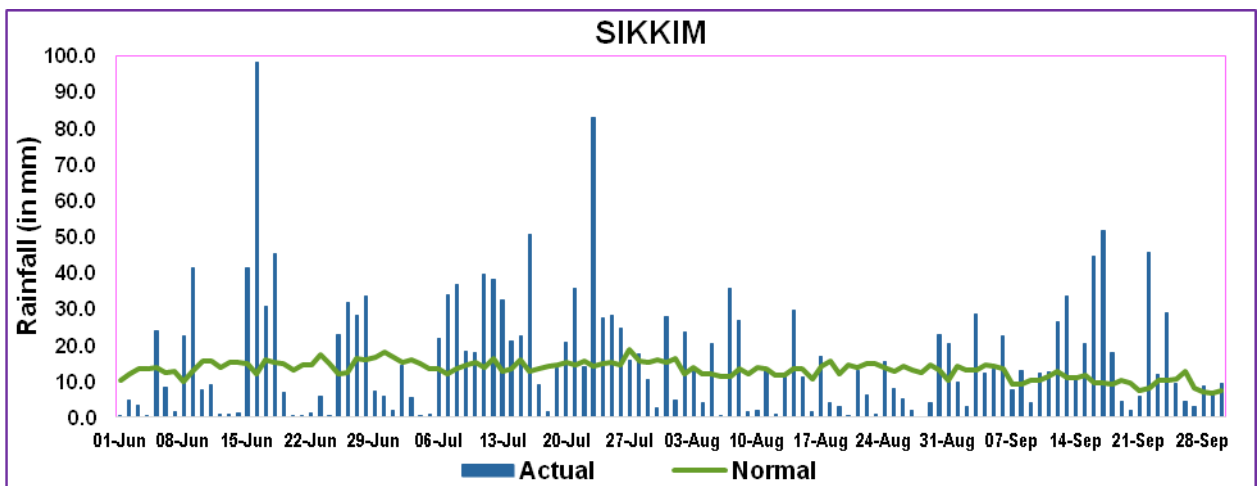
Figure 103: Sikkim- Rainfall Distribution - SW Monsoon 2019
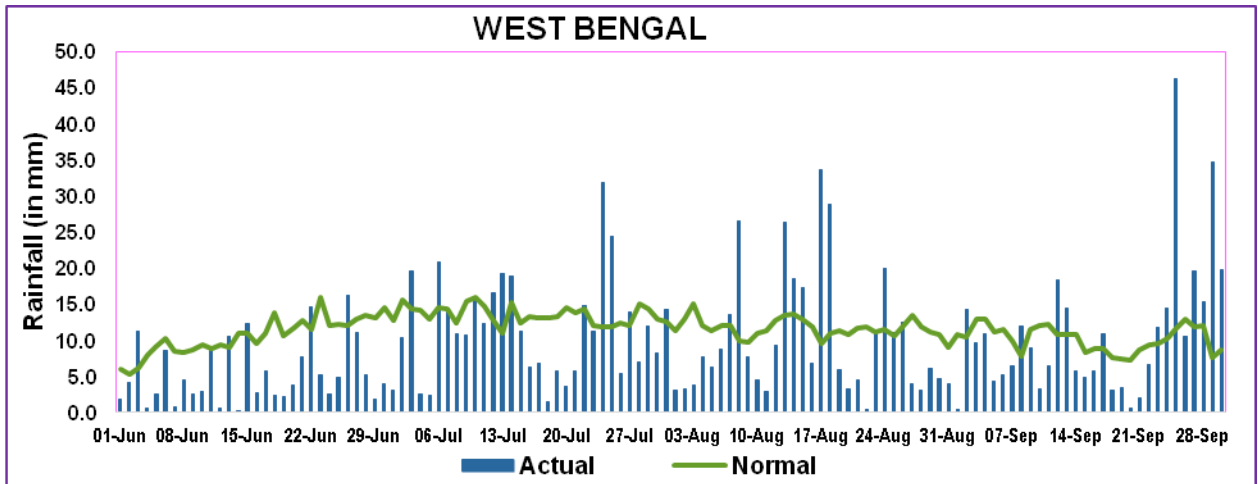
WEST BENGAL

Figure 104: West Bengal - Rainfall Distribution - SW Monsoon 2019
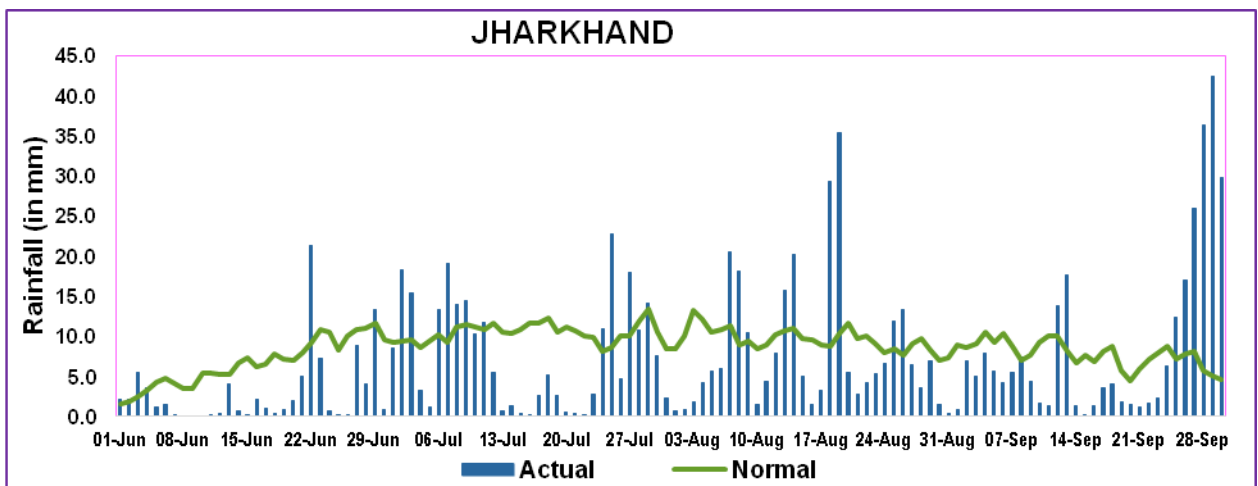
JHARKHAND

Figure 105: Jharkhand - Rainfall Distribution - SW Monsoon 2019
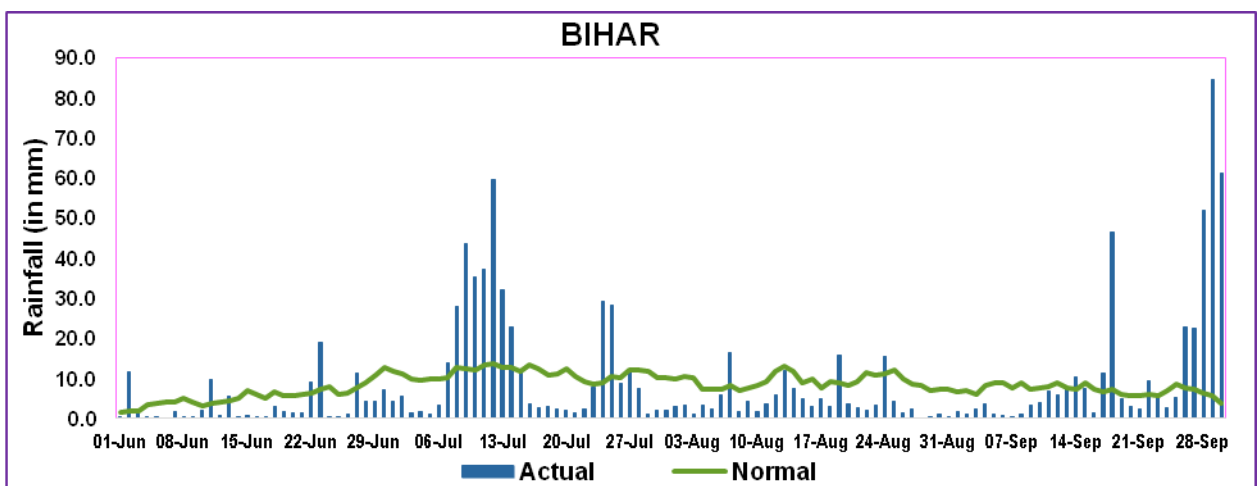
BIHAR

Figure 106: Bihar - Rainfall Distribution - SW Monsoon 2018

6. *DISTRICT-WISE RAINFALL STATISTICS*

6.1　SEASONAL & ANNUAL

The rainfall statistics for 683 districts of India was prepared during the year 2019. The districtwise observed seasonal and annual rainfall for the districts whose data are received throughout the year is given in Table 23. Also, the percent departures of observed rainfall from their normals have been given inTable 24. It may be seen that the rainfall for some of the districts are not available, which is due to non-availability of data either by sudden developments of faults in the instruments or by remote/difficult locations of the stations in the districts. Annually, the District of East Khasi Hills in Meghalaya received the highest rainfall of 7207.3 mm where as the District Ladakh in Leh (UT) received the lowest rainfall of 65.5 mm, which resembles with the normal pattern of rainfall in India.

Table 23: District-wise seasonal and annual Rainfall (mm) - Year 2019

Districts　　　Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
ANDAMAN & NICOBAR ISLANDS					
NICOBAR	199.0	335.7	1124.2	514.2	2173.0
NORTH & MIDDLE ANDAMAN	168.0	242.9	3283.3	184.5	3878.6
SOUTH ANDAMAN	180.3	291.5	2038.3	274.9	2785.0
ANDHRA PRADESH					
ANANTAPUR	11.6	60.8	382.4	207.0	661.8
CHITTOOR	11.9	42.1	516.8	368.4	939.3
CUDDAPAH	15.2	31.0	413.8	217.9	677.9
EAST GODAVARI	4.1	49.6	874.0	265.1	1192.9
GUNTUR	26.1	25.3	676.4	211.2	939.0
KRISHNA	24.2	46.5	736.9	189.7	997.2
KURNOOL	17.3	42.1	535.6	129.0	724.1
NELLORE	11.2	36.7	364.6	590.8	1003.3
PRAKASAM	15.4	48.8	403.9	257.9	726.0
SRIKAKULAM	1.6	149.4	817.7	367.8	1336.4
VISHAKHAPATNAM	1.3	111.2	701.1	272.3	1085.9
VIZIANAGARAM	0.5	86.5	806.5	342.8	1236.3
WEST GODAVARI	14.0	11.9	808.2	169.1	1003.2
ARUNACHAL PRADESH					
ANJAW		843.0	1076.2	100.4	
CHANGLANG	94.8	844.5	1296.0	100.9	2336.1
DIBANG VALLEY			1300.8		
EAST KAMENG	0.0	197.2	872.0	62.8	1132.0
EAST SIANG	144.0	709.3	2741.3	163.2	3757.8
KURUNG KUMEY	126.2	855.0	1492.4	230.0	2703.6
LOHIT	128.1	743.6	1680.5	110.9	2663.0
LOWER DIBANG VALLEY	49.6	592.5	2797.0	157.3	3596.4
LOWER SUBANSIRI			829.2	83.1	
PAPUMPARA	90.2	728.0	2002.5	270.2	3090.8

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
TAWANG	58.0	329.4	831.3	74.3	1293.0
TIRAP	50.8		1243.8	150.4	
UPPER SIANG	329.1	943.8	1736.0	263.1	3271.9
UPPER SUBANSIRI	37.0	502.4	1030.7	123.2	1693.3
WEST KAMENG	37.0	502.4	1030.7	123.2	1693.3
WEST SIANG	98.6	391.7	2019.2	197.6	2707.1
ASSAM					
BAKSA	31.9	917.4	1824.5	51.7	2825.6
BARPETA	35.4	877.1	2276.7	83.2	3272.3
BONGAIGAON	17.4	542.2	2493.6	109.6	3162.8
CACHAR	30.6	513.6	1788.8	398.4	2731.4
CHIRANG	73.6	632.6	2682.9	137.0	3526.1
DARRANG	8.0	730.6	368.9	74.5	1182.0
DHEMAJI			2315.8	258.3	
DHUBRI	36.1	618.6	1664.6	167.3	2486.6
DIBRUGARH	71.4	702.4	1320.8	128.2	2222.8
GOALPARA	15.0	839.0	1793.1	155.9	2803.0
GOLAGHAT	43.6	534.2	922.0	167.5	1667.2
HAILAKANDI	23.5	703.9	1490.0	266.0	2483.4
JORHAT	39.9	557.8	1193.0	174.9	1965.6
KAMRUP (RURAL)	6.3	811.0	943.4	100.6	1861.3
KAMRUP METRO.	13.9	577.2	926.2	175.1	1692.4
KARBI ANGLONG	6.8	355.2	487.7	167.6	1017.2
KARIMGANJ	17.0	701.8	1878.9	306.1	2903.8
KOKRAJHAR	29.6	917.3	3050.3	109.4	4106.5
LAKHIMPUR	56.5	601.3	2068.3	254.1	2980.2
MORIGAON	7.8	334.5	740.9	143.5	1226.7
N. C. HILLS	8.4	467.3	868.4	219.2	1563.3
NAGAON	25.0	277.7	649.7	141.9	1094.3
NALBARI	18.4	919.9	1793.0	97.0	2828.3
SHONITPUR	26.8	582.9	1172.3	116.9	1898.9
SIBSAGAR	51.3	648.2	878.5	161.1	1739.1
TINSUKIA	82.3	723.6	1357.9	100.2	2264.1
UDALGURI	49.2	635.6	1651.7	75.0	2411.5
BIHAR					
ARARIA	33.5	199.9	1414.5	7.7	1655.6
ARWAL	19.6	11.6	518.6	38.3	588.1
AURANGABAD	19.6	4.8	854.3	56.6	935.3
BANKA	43.0	114.4	823.3	121.4	1102.1
BEGUSARAI	21.6	17.2	769.1	53.2	861.0
BHABUA	26.3	6.1	1065.2	82.8	1180.4
BHAGALPUR	50.4	102.5	1073.2	61.5	1287.6
BHOJPUR	21.8	80.8	863.6	23.7	989.9
BUXAR	15.4	12.2	1084.2	44.4	1156.2
DARBHANGA	23.1	81.9	976.7	21.8	1103.6
EAST CHAMPARAN	28.1	43.3	1155.3	32.1	1258.8

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
GAYA	29.9	27.3	849.0	44.8	951.0
GOPALGANJ	21.4	12.9	1367.5	21.1	1423.0
JAHANABAD	16.7	52.4	835.3	75.1	979.5
JAMUI	40.4	23.1	812.6	75.6	951.6
KATIHAR	29.0	134.4	1015.9	46.4	1225.6
KHAGARIA	34.3	33.5	975.5	59.6	1102.8
KISHANGANJ	28.6	312.1	1738.2	28.7	2107.6
LAKHISARAI	27.8	16.5	711.2	33.3	788.9
MADHEPURA	34.6	91.3	1280.2	49.1	1455.2
MADHUBANI	16.8	143.4	1008.0	19.9	1188.1
MONGHYR	33.8		848.2	40.2	
MUZAFFARPUR	36.5	17.1	1075.9	42.6	1172.0
NALANDA	38.0	80.5	955.0	40.0	1113.5
NAWADA	35.0	15.3	916.8	50.9	1018.0
PATNA	8.4	14.4	860.3	23.8	906.9
PURNEA	40.1	138.1	1325.5	41.9	1545.6
ROHTAS	11.4	16.5	781.9	42.4	852.2
SAHARSA	13.5	50.5	1028.2	14.4	1106.6
SAMASTIPUR	34.2	36.9	1304.6	49.7	1425.4
SARAN	21.8	16.9	983.2	35.4	1057.3
SHEIKHPURA	28.0	8.0	617.8	22.7	676.5
SHEOHAR	13.1	49.3	1013.0	9.8	1085.2
SITAMARHI	23.5	88.3	1068.9	12.9	1193.5
SIWAN	21.2	16.4	1273.3	43.0	1353.9
SUPAUL	19.6	138.7	1289.2	9.0	1456.5
VAISHALI	20.0	12.4	978.1	29.1	1039.4
WEST CHAMPARAN	92.8	173.2	1434.1	38.4	1738.5
CHANDIGARH (UT)					
CHANDIGARH (UT)	76.8	80.0	716.4	65.5	938.7
CHHATTISGARH					
BALOD	27.4	52.3	1044.1	95.0	1218.8
BALODA BAZAR	46.0	28.0	953.7	49.9	1077.5
BALRAMPUR	37.6	28.6	1010.0	98.7	1174.8
BASTAR	26.9	85.1	1802.0	192.3	2106.2
BEMETARA	32.8	28.6	942.8	35.6	1039.8
BIJAPUR	54.6	24.7	2229.1	154.9	2463.3
BILASPUR	39.2	47.6	1120.3	47.8	1254.9
DANTEWADA	7.6	30.1	1669.8	87.9	1795.4
DHAMTARI	8.4	49.8	1122.3	106.4	1286.8
DURG	8.9	5.5	878.5	78.4	971.2
GARIABAND	10.4	29.0	1195.4	89.0	1323.7
JANJGIR	35.4	28.5	1039.6	69.1	1172.5
JASHPUR	26.5	56.2	1129.2	171.6	1383.4
KABIRDHAM	38.1	43.9	863.5	28.9	974.3
KANKER	11.9	7.7	1341.4	149.8	1510.7
KONDAGAON	11.9	37.8	1614.5	160.3	1824.6

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
KORBA	18.9	31.1	1246.6	126.8	1423.4
KORIYA	26.9	17.4	1067.6	45.3	1157.2
MAHASAMUND	24.3	11.7	1171.8	75.3	1283.2
MUNGELI	30.7	39.4	776.9	38.1	885.1
NARAYANPUR	7.0	32.9	1789.6	236.4	2065.9
RAIGARH	24.3	29.9	1263.1	87.9	1405.2
RAIPUR	44.3	9.6	1003.5	63.2	1120.6
RAJNANDGAON	26.1	19.2	904.3	42.9	992.4
SUKMA	0.0	42.0	1701.6	120.5	1864.1
SURAJPUR	37.2	43.5	1214.9	145.6	1441.2
SURGUJA	33.5	5.8	830.5	103.9	973.8
DADARA & NAGAR HAVELI					
DADARA & NAGAR HAVELI	0.0	0.0	3622.8	150.9	3773.7
DAMAN & DIU					
DAMAN	51.3	648.2	878.5	161.1	1739.1
DIU	82.3	723.6	1357.9	100.2	2264.1
DELHI					
CENTRAL DELHI	18.8	3.0		85.0	
EAST DELHI	72.7	13.0	323.8	30.7	440.2
NEW DELHI	74.7	45.4	300.2	63.6	484.0
NORTH DELHI	94.5	43.6	528.1	72.5	738.6
NORTH EAST DELHI	81.4	29.2	351.7	42.8	505.0
NORTH WEST DELHI	37.0	6.5		9.0	
SOUTH DELHI	69.5	32.9	454.3	44.9	601.5
SOUTH WEST DELHI	71.1	42.9	334.1	66.5	514.6
WEST DELHI	32.5	26.0			
GOA					
NORTH GOA	0.0	2.9	4127.9	555.5	4686.4
SOUTH GOA	0.0	3.8	3731.9	580.0	4315.7
GUJARAT REGION					
AHMEDABAD	0.0	0.7	725.9	51.8	778.4
AMRELI	0.0	0.1	803.2	83.2	886.5
ANAND	0.0	0.0	1004.2	88.3	1092.6
ARAVALLI	3.7	0.7	998.2	96.8	1099.3
BANASKANTHA	0.5	3.6	599.8	108.9	712.8
BHARUCH	0.0	0.0	1238.6	65.0	1303.5
BHAVNAGAR	0.0	0.0	760.2	53.0	813.2
BOTAD	0.0	0.0	921.0	59.8	980.8
CHHOTA UDEPUR	0.0	0.0	1759.2	71.9	1831.2
DAHOD	0.0	0.0	848.5	47.4	895.9
DANGS	0.0	0.0	3039.3	143.0	3182.3
DEVBHOOMI DWARKA	2.2	0.0	985.8	22.4	1010.4
GANDHINAGAR	0.0	0.0	847.6	59.0	906.6
GIR SOMNATH	0.1	0.0	1115.4	47.3	1162.8
JAMNAGAR	0.0	0.0	1112.8	46.7	1159.5
JUNAGADH	0.0	0.0	1340.9	63.4	1404.3

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
KHEDA	0.0	0.0	1013.2	72.0	1085.2
KUTCH	2.7	0.3	681.6	54.7	739.4
MAHISAGAR	0.0	0.0	881.3	43.7	925.0
MEHSANA	0.9	3.6	737.5	108.2	850.2
MORBI	0.0	4.1	844.6	128.8	977.5
NARMADA	0.0	0.0	1600.9	80.5	1681.4
NAVSARI	0.0	0.0	2363.8	132.3	2496.2
PANCHMAHAL	0.0	0.0	1218.6	38.3	1256.9
PATAN	1.4	0.4	663.2	96.1	761.2
PORBANDAR	0.0	0.0	967.2	33.3	1000.5
RAJKOT	0.0	0.1	942.8	44.7	987.6
SABARKANTHA	0.5	7.5	935.3	120.3	1063.6
SURAT	0.0	0.0	1858.2	75.1	1933.4
SURENDRANAGAR	0.0	0.7	835.5	125.2	961.4
TAPI	0.0	0.0	1759.4	65.8	1825.2
VADODARA	0.0	0.0	1070.5	66.6	1137.0
VALSAD	0.0	0.0	3089.0	121.7	3210.7
HARYANA					
AMBALA	76.6	72.8	628.1	40.8	818.3
BHIWANI	15.2	35.8	182.5	29.5	263.0
FARIDABAD	52.1	37.4	339.9	13.4	442.8
FATEHABAD	9.0	13.4	102.7	30.0	155.1
GURGAON	29.4	35.2	284.7	29.5	378.7
HISAR	13.6	50.2	159.8	17.0	240.6
JHAJJAR	19.3	19.2	162.3	25.2	226.0
JIND	32.7	21.3	197.2	21.3	272.5
KAITHAL	89.3	47.7	172.3	31.0	340.3
KARNAL	45.7	39.0	418.3	37.0	539.9
KURUKSHETRA	54.4	54.8	383.5	30.7	523.4
MAHENDRAGARH	7.5	22.0	207.7	25.1	262.2
MEWAT	36.3	23.3	273.6	10.8	343.9
PALWAL	15.0	24.4	250.8	13.5	303.6
PANCHKULA	39.0	36.6	397.9	32.4	505.9
PANIPAT	31.3	13.5	184.3	34.1	263.2
REWARI	15.4	21.4	318.6	27.2	382.5
ROHTAK	16.2	42.5	141.7	33.0	233.4
SIRSA	17.6	50.3	182.9	31.1	281.9
SONEPAT	29.0	33.2	228.3	47.5	337.9
YAMUNA NAGAR	82.5	59.9	700.5	44.5	887.3
HIMACHAL PRADESH					
BILASPUR	226.4	86.3	1113.1	116.5	1542.3
CHAMBA	331.8	190.8	571.9	193.9	1288.3
HAMIRPUR	294.5	78.3	1154.6	117.2	1644.6
KANGRA	312.6	123.3	1314.2	164.8	1914.9
KINNAUR	236.7	180.9	120.4	114.0	651.9
KULLU	389.5	273.1	565.1	214.1	1441.8

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
LAHAUL & SPITI	296.5	87.2	156.0	68.4	608.0
MANDI	274.5	131.1	940.6	88.6	1434.8
SHIMLA	220.1	161.7	680.7	98.1	1160.6
SIRMAUR	207.2	111.8	1136.1	110.8	1565.9
SOLAN	197.6	115.2	842.8	70.3	1225.9
UNA	258.8	83.5	893.6	93.4	1329.3
JAMMU & KASHMIR					
ANANTNAG	297.3	210.9	228.4	315.1	1051.6
BADGAM	185.1	160.2	159.1	248.3	752.6
BANDIPORE	225.0	268.2	200.5	159.5	853.2
BARAMULA	431.6	359.0	382.9	275.5	1449.0
DODA	539.0	262.2	351.6	239.1	1391.9
GANDERBAL	234.5	280.7	207.9	244.2	967.3
JAMMU	253.0	99.1	407.1	115.7	874.9
KARGIL	139.0	5.2	21.1		
KATHUA	294.1	73.3	827.2	142.7	1337.3
KISTWAR					
KULGAM	390.3	262.4	383.3	410.4	1446.4
KUPWARA	420.3	364.7	223.6	379.0	1387.6
LADAKH (LEH)	43.8	1.6	20.1	0.0	65.5
POONCH			509.0	38.5	
PULWAMA	163.3	100.9	130.8	155.0	549.9
RAJOURI	261.2	175.5	409.9	215.9	1062.5
RAMBAN	603.1	278.1	372.2	437.3	1690.7
REASI	329.4	200.7	1717.0	328.1	2575.2
SAMBA	183.8	49.8	641.1	193.1	1067.8
SHOPIAN				237.0	
SRINAGAR	244.1	192.9	214.6	280.1	931.7
UDHAMPUR	407.4	163.6	1092.6	295.5	1959.1
JHARKHAND					
BOKARO	29.4	91.8	842.1	177.6	1140.8
CHATRA	33.7	18.4	681.9	65.4	799.4
DEOGHAR	27.8	127.1	758.2	145.6	1058.6
DHANBAD	24.8	106.2	939.2	169.8	1240.1
DUMKA	28.3	186.7	1000.0	95.1	1310.1
EAST SINGBHUM	63.7	286.5	1148.8	260.0	1759.0
GARHWA	8.8	18.4	450.0	46.0	523.2
GIRIDIH	11.3	92.3	816.0	171.1	1090.7
GODDA	0.0	119.8	556.3	95.4	771.5
GUMLA	14.6	104.2	924.7	154.3	1197.8
HAZARIBAG	21.9	26.4	861.7	145.5	1055.5
JAMTARA	14.9	128.8	1004.7	218.7	1367.1
KHUNTI	7.8	137.6	726.7	85.5	957.6
KODERMA	35.9	10.6	900.9	88.0	1035.4
LATEHAR	36.4	30.2	633.5	61.1	761.2
LOHARDAGA	20.8	80.7	871.3	108.7	1081.5

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
PAKUR	25.7	131.5	749.4	142.8	1049.4
PALAMU	13.5	18.6	871.2	43.3	946.6
RAMGARH	31.1	100.7	968.5	212.5	1312.8
RANCHI	29.9	83.5	755.4	175.1	1043.9
SAHIBGANJ	19.7	338.2	1893.6	125.0	2376.5
SERAIKELA-KHARSAWAN	5.6	144.1	774.7	174.0	1098.4
SIMDEGA	29.6	104.6	1263.4	184.3	1581.9
WEST SINGBHUM	42.8	213.9	868.7	200.0	1325.3
KARNATAKA					
BAGALKOTE	0.0	54.8	440.9	293.1	788.9
BALLARI	1.9	43.4	436.3	240.1	721.7
BELAGAVI	0.4	38.9	1083.1	346.1	1468.5
BENGALURU RURAL	5.0	226.1	433.0	261.6	925.7
BENGALURU URBAN	32.4	169.8	453.5	300.5	956.1
BIDAR	4.2	15.2	649.5	216.5	885.5
CHAMARAJANAGAR	7.1	152.1	383.2	249.5	791.9
CHIKABALLAPURA	8.4	131.7	386.2	221.8	748.1
CHIKKAMAGALURU	8.6	97.0	2081.6	464.6	2651.8
CHITRADURGA	6.3	63.1	371.3	293.0	733.7
DAKSHINA KANNADA	1.1	77.6	3513.8	619.4	4211.9
DAVANGERE	2.0	82.9	482.5	352.3	919.6
DHARWAD	0.0	104.5	744.7	300.7	1149.8
GADAG	0.0	45.9	442.9	279.7	768.6
HASSAN	8.0	158.2	832.3	309.4	1307.9
HAVERI	0.0	46.4	769.4	441.8	1257.6
KALABURGI	0.0	29.0	592.8	173.1	794.8
KODAGU	1.7	140.2	2643.0	400.7	3185.6
KOLAR	52.9	172.1	314.7	203.9	743.6
KOPPAL	2.9	47.7	423.5	251.3	725.4
MANDYA	2.0	168.0	418.3	353.8	942.1
MYSURU	11.9	206.3	613.3	254.4	1085.9
RAICHUR	2.0	31.3	441.7	98.8	573.7
RAMANAGARA	6.9	148.0	436.9	284.3	876.0
SHIVAMOGGA	0.4	29.9	2125.7	384.9	2540.9
TUMAKURU	9.9	95.8	428.2	267.7	801.6
UDUPI	0.0	14.4	4542.6	688.2	5245.3
UTTARA KANNADA	0.0	40.3	3652.7	527.0	4220.1
VIJAYAPURA	0.0	45.8	373.7	201.0	620.5
YADGIR	0.0	37.6	472.6	79.6	589.8
KERALA					
ALAPUZHA	3.0	108.2	1796.9	721.1	2629.1
CANNUR	0.0	72.9	3134.1	610.1	3817.1
ERNAKULAM	7.2	186.9	2375.9	810.6	3380.6
IDUKKI	25.9	177.1	2328.2	514.4	3045.5
KASARGOD	0.0	64.0	3420.2	630.7	4114.9
KOLLAM	17.8	212.4	1420.9	609.3	2260.5

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
KOTTAYAM	16.9	148.9	2124.0	777.1	3066.8
KOZHIKODE	0.0	88.2	3469.7	697.1	4255.0
MALAPPURAM	0.4	126.1	2371.1	672.9	3170.6
PALAKKAD	3.8	144.3	2127.9	492.1	2768.2
PATHANAMTHITTA	75.3	442.8	1716.8	749.4	2984.3
THIRUVANANTHAPURAM	11.9	172.1	1040.5	533.7	1758.2
THRISSUR	3.6	154.3	2499.2	655.0	3312.1
WYNAD	14.5	269.3	2377.2	463.3	3124.3
LAKSHADWEEP					
LAKSHADWEEP	28.1	37.9	1227.0	850.0	2143.0
EAST MADHYA PRADESH					
AGAR-MALWA	0.0	12.0	1855.0	62.2	1929.2
ALIRAJPUR	0.0	2.9	1394.5	123.5	1520.9
ANUPPUR	44.1	60.1	1342.3	29.2	1475.7
ASHOKNAGAR	15.8	10.8	1366.5	63.5	1456.5
BALAGHAT	46.6	18.3	1284.1	29.2	1378.2
BARWANI	0.0	0.1	1138.2	62.4	1200.7
BETUL	0.5	10.2	1250.9	127.3	1388.9
BHIND	31.8	7.4	734.2	19.8	793.1
BHOPAL	0.4	15.2	1756.5	154.8	1926.9
BURHANPUR	0.0	3.3	1206.3	127.2	1336.7
CHHATARPUR	12.2	16.4	1205.1	62.3	1295.9
CHHINDWARA	29.5	25.0	1275.3	84.9	1414.7
DAMOH	4.0	5.5	1489.0	35.0	1533.5
DATIA	29.7	14.8	719.9	22.7	787.2
DEWAS	0.0	1.2	1465.2	39.7	1506.0
DHAR	0.3	5.7	1217.2	68.0	1291.1
DINDORI	17.2	24.8	1453.4	114.7	1610.1
GUNA	7.1	16.8	1557.2	35.4	1616.5
GWALIOR	34.8	25.1	823.0	12.0	894.9
HARDA	10.5	13.7	1591.5	101.9	1717.6
HOSHANGABAD	7.4	45.9	1934.1	88.5	2075.9
INDORE	2.5	0.9	1434.6	63.6	1501.5
JABALPUR	12.5	20.5	1587.0	39.4	1659.3
JHABUA	1.8	2.4	1424.7	120.4	1549.3
KATNI	25.0	41.8	1283.0	66.4	1416.2
KHANDWA	0.0	0.0	1311.3	90.8	1402.1
KHARGONE	0.0	0.0	1016.5	47.3	1063.7
MANDLA	29.1	31.2	1747.2	67.0	1874.5
MANDSAUR	1.2	41.3	2018.6	83.5	2144.5
MORENA	42.3	24.8	731.1	38.9	837.0
NARSINGHPUR	0.2	8.6	1719.4	14.4	1742.6
NEEMUCH	3.0	19.7	1711.7	70.0	1804.4
PANNA	4.3	0.0	1115.5	81.6	1201.3
RAISEN	6.2	8.8	1863.2	61.0	1939.2
RAJGARH	0.0	8.4	1631.0	85.6	1725.0

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
RATLAM	0.0	16.9	1563.5	80.7	1661.0
REWA	37.8	35.1	1199.2	71.0	1343.2
SAGAR	0.7	17.0	1519.9	19.5	1557.2
SATNA	33.9	29.7	903.0	24.1	990.6
SEHORE	3.2	10.0	1774.4	55.2	1842.8
SEONI	22.2	20.3	1474.7	90.9	1608.1
SHAHDOL	15.0	38.0	869.0	55.0	977.0
SHAJAPUR	0.0	6.0	1712.9	88.1	1807.0
SHEOPUR	13.6	22.5	849.2	25.0	910.3
SHIVPURI	12.8	23.4	895.0	44.4	975.5
SIDHI	22.2	26.2	916.0	96.4	1060.8
SINGRAULI	26.4	66.3	1211.3	91.0	1395.0
TIKAMGARH	4.5	14.5	1053.0	108.7	1180.7
UJJAIN	4.0	11.8	1477.3	90.1	1583.2
UMARIA	18.9	28.2	1334.2	31.3	1412.6
VIDISHA	1.6	17.8	1603.8	47.0	1670.2
MAHARASHTRA					
AHMEDNAGAR	0.0		525.2	271.7	
AKOLA	0.2	0.6	820.0	91.1	911.9
AMRAOTI	4.9	5.1	892.1	45.4	947.5
AURANGABAD	0.0	0.2	607.3	215.7	823.2
BEED	1.8	7.4	412.2	325.8	747.2
BHANDARA	22.1	15.1	1222.9	42.2	1302.4
BULDHANA	0.0	0.7	669.8	124.2	794.7
CHANDRAPUR	22.4	12.0	1268.7	83.3	1386.4
DHULE			967.8	143.0	
GADCHIROLI	29.7	9.1	1869.5	77.6	1985.9
GONDIA	27.1	24.7	1183.9	40.5	1276.2
HINGOLI			667.4	173.2	
JALGAON	0.0	1.0	870.1	192.2	1063.3
JALNA	0.0	1.6	526.2	308.9	836.7
KOLHAPUR	0.0	10.8	2927.5	296.8	3235.2
LATUR	0.0	10.2	550.9	241.5	802.6
MUMBAI CITY	0.0	0.0	2730.8	122.7	2853.5
MUMBAI SUBURBAN	0.0	0.0	3670.2	185.6	3855.8
NAGPUR	15.9	7.0	1169.3	51.5	1243.6
NANDED	0.0	2.6	814.4	223.8	1040.7
NANDURBAR			1344.9	47.7	
NASHIK	0.0	5.4	1554.6	176.3	1736.3
OSMANABAD	0.0	7.1	514.1	252.3	773.5
PALGHAR	0.0	0.0	3883.4	136.4	4019.7
PARBHANI	0.0	10.3	649.8	290.0	950.1
PUNE	0.0	7.0	1803.5	242.4	2052.9
RAIGAD	0.0	0.1	4945.6	236.6	5182.2
RATNAGIRI	0.0	0.5	4684.9	235.2	4920.6
SANGLI	0.0	23.5	650.4	265.0	938.9

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
SATARA	0.0	6.9	1418.7	253.7	1679.4
SHOLAPUR	0.0	19.4	299.6	288.2	607.2
SINDHUDURG	0.0	0.6	4270.0	466.4	4737.0
THANE			4084.9	162.0	
WARDHA	9.6	3.1	975.7	54.8	1043.0
WASHIM	0.0	3.0	634.0	126.6	763.6
YEOTMAL	0.0	2.7	563.8	43.1	609.6
MANIPUR					
BISHNUPUR	13.9	206.2	535.7	103.8	859.6
CHANDEL	19.6	84.1	410.8	65.5	580.0
CHURACHANDPUR	12.4	190.8	677.4	67.9	948.5
IMPHAL EAST	14.7	160.2	506.6	141.3	822.8
IMPHAL WEST	18.5	262.7	807.0	100.3	1188.5
SENAPATI			763.5	238.4	
TAMENGLONG	30.0	410.6	1536.5		
THOUBAL			432.5	90.7	
UKHRUL	12.0	165.4	725.8	254.0	1157.2
MEGHALAYA					
EAST GARO HILLS	0.0	0.0	0.0	0.0	0.0
EAST KHASI HILLS	179.6	282.0	2331.3	293.0	3086.0
JAINTIA HILLS	0.0	0.0	0.0	0.0	0.0
RI-BHOI	199.0	335.7	1124.2	514.2	2173.0
SOUTH GARO HILLS	168.0	242.9	3283.3	184.5	3878.6
WEST GARO HILLS	180.3	291.5	2038.3	274.9	2785.0
WEST KHASI HILLS	0.0	0.0	0.0	0.0	0.0
MIZORAM					
AIZWAL	34.3	396.3	1309.5	186.4	1926.4
CHAMPHAI	28.7		1113.5	91.7	
KOLASIB	4.1		1885.7	177.2	
LAWNGTLAI			2007.6	164.8	
LUNGLEI	41.0	90.4	2121.2	123.2	2375.8
MAMIT			1002.2	367.2	
SAIHA			1606.7	115.8	
SERCHHIP	0.5		898.9	48.9	
NAGALAND					
DIMAPUR	17.6	347.1	837.5	271.5	1473.6
KEPHIRE	15.1	145.7	512.3	259.0	932.1
KOHIMA	22.0	356.8	988.6	240.6	1608.0
LONGLENG	54.0			244.9	
MOKOKCHUNG	43.7	442.7	1218.9	278.7	1984.0
MON	16.3	401.4	966.1	170.5	1554.3
PAREN	25.9	170.2	1157.1	320.3	1673.5
PHEK	13.9	287.8	775.7	213.9	1291.3
TUENSANG	43.0	302.0	1282.3	285.6	1912.9
WOKHA	19.7	214.4	890.5	216.4	1340.9
ZUNHEBOTO	29.0	277.0		185.6	

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
ODISHA					
ANGUL	28.3	130.6	968.5	145.4	1272.8
BALASORE	58.3	262.2	1006.0	312.7	1639.1
BARGARH	15.8	73.5	1417.7	68.0	1575.0
BHADRAK	18.2	158.7	1059.3	307.0	1543.3
BOLANGIR	10.6	64.2	1383.0	48.5	1506.2
BOUDHGARH	25.8	94.2	1332.7	77.3	1529.9
CUTTACK	30.7	221.6	1281.0	287.6	1820.9
DEOGARH	45.1	149.3	1076.8	141.7	1412.8
DHENKANAL	23.4	208.3	1168.2	155.5	1555.5
GAJAPATI	3.1	246.3	881.9	296.6	1427.8
GANJAM	0.2	200.7	1085.8	319.7	1606.5
JAGATSINGHPUR	1.2	132.6	1277.2	358.1	1769.1
JAJPUR	16.3	286.7	1242.6	257.2	1802.8
JHARSUGUDA	42.9	70.2	1537.8	134.2	1785.1
KALAHANDI	7.6	45.3	1365.7	103.2	1521.8
KANDHAMAL	24.3	131.9	1370.4	169.8	1696.4
KENDRAPARA	0.0	142.7	1084.6	332.2	1559.4
KEONJHARGARH	57.7	213.2	1014.6	184.6	1470.1
KHURDA	18.7	214.6	1176.1	337.6	1747.0
KORAPUT	2.3	116.3	1633.5	268.7	2020.8
MALKANGIRI	1.0	71.0	1398.3	117.0	1587.3
MAYURBHANJ	70.8	339.1	1163.7	215.5	1789.0
NAWAPARA	26.6	42.1	1034.8	68.0	1171.5
NAWARANGPUR	10.5	112.5	1392.9	93.2	1609.1
NAYAGARH	30.0	222.5	1257.4	237.1	1747.0
PURI	0.0	160.6	1280.9	371.4	1813.0
RAYAGADA	3.3	124.6	1070.2	231.4	1429.5
SAMBALPUR	29.9	63.7	1291.5	114.9	1499.9
SONEPUR	16.2	107.1	1500.2	56.5	1680.0
SUNDARGARH	46.5	96.7	1137.9	174.9	1456.0
PUDUCHERRY (UT)					
KARAIKAL	14.2	0.0	365.8	1053.6	1433.6
MAHE			2971.8	730.8	
PUDUCHERRY	0.0	23.2	574.1	655.7	1253.0
YANAM			629.2	460.2	
PUNJAB					
AMRITSAR	105.8	45.7	340.2	80.6	572.2
BARNALA	55.0	33.0	275.0	83.4	446.4
BHATINDA	34.1	45.4	380.9	39.9	500.3
FARIDKOT	31.8	88.4	275.8	47.9	443.9
FATEHGARH SAHIB	72.8	59.0	453.5	36.8	622.2
FEROZEPUR	25.2	54.2	154.5	34.1	268.0
GURDASPUR	317.3	64.1	893.1	140.6	1415.1
HOSHIARPUR	233.7	55.9	479.2	75.7	844.4
JALANDHAR	112.3	39.1	403.6	56.7	611.7

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
KAPURTHALA	169.2	49.3	844.6	68.8	1131.9
LUDHIANA	142.6	56.7	544.3	50.2	793.9
MANSA	26.0	40.4	218.9	26.1	311.4
MOGA	38.9	35.9	242.6	45.8	363.2
MUKTSAR	36.9	75.6	380.9	54.3	547.6
NAWANSHAHAR	180.7	74.2	767.1	97.1	1119.0
PATIALA	101.4	70.2	761.6	65.4	998.6
ROPAR	189.4	84.6	779.4	100.4	1153.8
SANGRUR	39.4	54.7	265.1	36.7	395.9
SAS NAGAR (MOHALI)	59.8	36.0	598.5	57.0	751.3
TARN TARAN	99.0	50.0	318.5	67.0	534.5
RAJASTHAN					
AJMER	10.0	15.7	763.7	22.5	811.8
ALWAR	17.6	40.0	376.4	28.0	462.0
BANSWARA	0.0	0.0	1223.7	63.7	1287.4
BARAN	9.0	43.4	1237.4	23.9	1313.6
BARMER	2.2	36.8	285.6	66.0	390.6
BHARATPUR	34.9	43.9	486.4	15.7	580.9
BHILWARA	2.8	26.9	1064.7	11.4	1105.8
BIKANER	5.8	36.2	201.3	56.8	300.2
BUNDI	0.0	20.0	1175.0	7.8	1202.8
CHITTORGARH	1.9	30.5	1177.2	42.7	1252.4
CHURU	2.4	48.6	367.8	49.1	467.9
DAUSA	16.6	27.0	647.1	27.8	718.5
DHOLPUR	39.7	28.6	692.2	53.7	814.1
DUNGARPUR	0.0	5.7	1007.2	108.0	1120.8
HANUMANGARH	6.6	76.9	150.3	39.9	273.6
JAIPUR	9.4	23.1	695.5	16.7	744.7
JAISALMER	16.6	24.0	161.7	58.9	261.3
JALORE	0.0	12.6	514.6	23.3	550.4
JHALAWAR	16.2	38.8	1721.9	54.8	1831.7
JHUNJHUNU	7.7	21.5	601.0	40.5	670.7
JODHPUR	5.5	22.4	396.4	34.3	458.5
KARAULI	13.7	22.0	528.0	41.2	604.8
KOTA	7.0	37.3	1291.9	35.1	1371.2
NAGAUR	3.4	25.1	533.1	47.6	609.2
PALI	10.5	17.7	694.8	13.8	736.8
PRATAPGARH	0.0	23.2	1663.0	132.0	1818.2
RAJSAMAND	0.0	32.4	841.7	26.7	900.9
SAWAI MADHOPUR	4.4	15.1	929.4	19.5	968.4
SIKAR	8.1	41.7	680.7	32.7	763.3
SIROHI	0.9	20.4	953.9	42.2	1017.4
SRI GANGANAGAR	9.5	59.9	148.5	35.5	253.4
TONK	4.6	13.5	836.9	16.7	871.8
UDAIPUR	3.8	24.3	976.1	84.1	1088.3
SIKKIM					

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
EAST SIKKIM	51.3	734.4	1743.3	84.8	2613.8
NORTH SIKKIM	118.4	835.1	2030.6	123.5	3107.6
SOUTH SIKKIM	63.9	517.5	1342.9	128.7	2052.9
WEST SIKKIM	37.2	388.6	1457.4	69.6	1952.9
TAMILNADU					
ARIYALUR	0.0	0.1	587.8	523.5	1111.4
CHENNAI	1.6	0.0	587.8	637.7	1227.0
COIMBATORE	2.3	61.8	766.2	442.1	1272.3
CUDDALORE	2.2	5.6	394.0	690.0	1091.9
DHARMAPURI	9.2	121.7	431.2	276.3	838.4
DINDIGUL	5.7	61.2	250.4	395.3	712.6
ERODE	1.8	76.4	252.1	333.9	664.1
KANCHEEPURAM	0.4	8.4	429.7	692.9	1131.4
KANYAKUMARI	12.6	94.5	629.8	531.1	1267.9
KARUR	0.0	38.6	209.8	276.1	524.4
KRISHNAGIRI	14.5	148.2	301.5	265.8	730.0
MADURAI	5.3	54.9	303.1	308.6	671.9
NAGAPATTINAM	2.7	0.6	390.8	1062.3	1456.3
NAMAKKAL	5.8	78.0	271.5	275.2	630.4
NILGIRIS	10.3	213.2	1221.3	782.5	2227.3
PERAMBALUR	0.0	55.8	357.0	334.5	747.3
PUDUKKOTTAI	0.0	10.1	345.0	521.1	876.2
RAMANATHAPURAM	1.0	8.3	153.1	760.8	923.2
SALEM	6.0	114.4	492.0	315.1	927.6
SIVAGANGA	3.1	17.2	454.1	492.0	966.5
THANJAVUR	3.0	6.6	379.4	553.3	942.3
THENI	11.3	115.1	351.5	308.1	786.0
TIRUNELVELI	23.0	81.6	269.0	684.1	1057.6
TIRUPPUR	2.8	26.8	181.7	276.8	488.1
TIRUVALLUR	0.5	9.5	589.5	574.7	1174.2
TIRUVANNAMALAI	0.9	44.3	683.7	343.0	1071.9
TIRUVARUR	0.6	6.9	434.9	686.2	1128.5
TOOTHUKUDI	5.6	13.0	89.8	560.7	669.1
TRICHY	0.0	31.8	273.5	329.7	635.0
VELLORE	2.5	35.7	523.7	265.3	827.1
VILLUPURAM	0.0	22.5	452.8	431.0	906.2
VIRUDHUNAGAR	11.6	13.3	310.6	378.2	713.7
TELANGANA					
ADILABAD	1.5	7.2	1016.8	82.9	1108.4
B. KOTHAGUDEM	13.6	52.0	1073.8	185.0	1324.3
HYDERABAD	10.1	52.2	700.4	137.9	900.5
J. BHUPALPALLY	47.5	30.8	1312.1	272.4	1662.8
JAGTIAL	44.0	9.4	998.3	167.3	1219.1
JANGAON	39.7	85.5	801.3	245.5	1172.0
JOGULAMBA GADWAL	44.0	24.3	386.2	108.9	563.3
KAMAREDDY	7.4	8.8	987.1	200.1	1203.3

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
KARIMNAGAR	58.7	14.0	1005.9	276.3	1354.8
KHAMMAM	39.8	57.1	707.7	164.7	969.4
KUMARAM BHEEM	22.0	17.4	1213.5	103.1	1356.1
M. MALKAJGIRI	12.5	45.2	633.7	166.5	857.9
MAHABUBABAD	37.0	43.6	881.1	230.4	1192.1
MAHABUBNAGAR	11.5	17.7	533.3	150.5	712.9
MANCHERIAL	17.5	22.6	1039.2	168.1	1247.4
MEDAK	14.0	14.1	774.2	116.9	919.2
NAGARKURNOOL	29.7	34.4	515.8	133.3	713.2
NALGONDA	35.0	24.4	455.2	144.1	658.6
NIRMAL	2.1	7.2	910.3	149.9	1069.6
NIZAMABAD	2.3	2.4	1122.7	187.4	1314.7
PEDDAPALLE	58.8	6.0	1076.4	199.3	1340.6
RAJANNA SIRCILLA	50.4	11.2	905.2	217.4	1184.2
RANGAREDDY	13.2	49.9	450.7	125.9	639.7
SANGAREDDY	16.3	16.6	572.3	117.0	722.3
SIDDIPET	42.3	28.5	695.5	230.2	996.4
SURYAPET	25.5	25.5	576.9	152.1	780.0
VIKARABAD	0.4	15.8	544.0	132.5	692.7
WANAPARTHY	26.0	15.6	592.0	139.2	772.8
WARANGAL_RURAL	22.9	25.4	927.7	304.4	1280.3
WARANGAL_URBAN	27.9	59.2	915.9	251.9	1254.8
Y. BHUVANAGIRI	9.9	48.9	575.0	237.5	871.3
TRIPURA					
DHALAI	29.2	608.4	1567.8	248.2	2453.7
NORTH TRIPURA	46.9	859.8	1460.8	350.9	2718.3
SOUTH TRIPURA	51.4	357.5	1323.4	203.1	1935.5
WEST TRIPURA	62.9	427.5	1218.0	165.0	1873.4
UTTAR PRADESH					
AGRA	31.7	18.0	495.5	41.1	586.3
ALIGARH	28.4	33.3	372.4	19.3	453.3
ALLAHABAD	17.5	4.8	989.3	87.2	1098.8
AMBEDKAR NAGAR	21.0	0.0	1243.4	13.0	1277.4
AMETHI	18.9	7.9	805.9	24.2	856.9
AURAIYA	7.0	6.0	488.3	22.4	523.7
AZAMGARH	23.9	3.1	860.3	21.3	908.6
BADAUN	37.5	31.5	389.8	32.3	491.1
BAGHPAT	72.8	20.9	326.4	67.8	487.9
BAHRAICH	99.8	15.4	1083.1	39.3	1237.6
BALLIA	13.1	11.5	1117.5	39.3	1181.4
BALRAMPUR	37.1	5.0	1269.7		
BANDA	9.0	7.6	954.8	68.6	1040.0
BARABANKI	53.2	4.1	1230.8	31.8	1319.9
BAREILLY	54.7	19.6	756.3	86.0	916.7
BASTI	61.3	12.2	1284.1	26.5	1384.1
BIJNOR	151.0	21.0	802.4	71.1	1045.4

DISTRICT-WISE RAINFALL STATISTICS

Districts Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
BULANDSHAHAR	47.1	26.7	311.1	26.4	411.3
CHANDAULI	14.0	4.0	738.4	137.0	893.4
CHITRAKOOT	18.3	2.5	833.5	142.0	996.3
DEORIA	29.2	17.5	814.8	35.0	896.4
ETAH	28.1	13.7	547.0	43.7	632.5
ETAWAH	25.5	4.0	466.3	31.1	527.0
FAIZABAD	40.3	1.0	998.7	19.8	1059.8
FARRUKHABAD	19.7	9.3	510.8	51.2	590.8
FATEHPUR	20.0	6.7	568.4	53.5	648.6
FIROZABAD	34.8	12.8	436.1	39.0	522.7
GAUTAM BUDDHA NAGAR	113.0	110.0	414.0	145.0	782.0
GHAZIABAD	37.6	23.1	146.1	8.8	215.6
GHAZIPUR	18.3	8.1	877.6	47.1	951.1
GONDA	68.6	8.5	864.2	17.3	958.6
GORAKHPUR	37.1	10.7	1256.6	13.9	1318.3
HAMIRPUR	26.3	11.0	906.6	62.5	1006.4
HAPUR	51.0	12.0	396.0	66.0	525.0
HARDOI	32.4	9.0	602.9	41.0	685.3
JALAUN	32.8	7.0	574.3	30.5	644.6
JAUNPUR	8.7	3.2	692.8	19.7	724.4
JHANSI	21.3	14.0	610.1	57.2	702.5
JYOTIBA PHULE NAGAR	29.2	17.0	408.3	49.5	504.0
KANNAUJ	44.8	16.6	732.7	67.2	861.3
KANPUR CITY	41.5	6.1	624.1	28.5	700.1
KANPUR DEHAT	12.1	1.0	274.6	17.5	305.2
KANSHIRAM NAGAR	53.8	21.0	588.3	8.0	671.1
KAUSHAMBI	20.0	0.0	669.2	105.9	795.1
KHERI	57.6	27.3	541.7	73.1	699.7
KUSHI NAGAR	20.4	6.8	696.8	7.5	731.4
LALITPUR	6.5	8.0	892.4	43.7	950.6
LUCKNOW	43.0	4.3	856.7	17.7	921.6
MAHAMAYA NAGAR		34.9	470.6	13.5	
MAHARAJGANJ	47.5	16.0	698.8	12.0	774.3
MAHOBA	2.0	4.8	518.2	50.0	575.1
MAINPURI	23.1	7.0	339.8	32.4	402.3
MATHURA	14.0	12.0	303.2	19.5	348.7
MAU	5.5	0.0	627.1	31.0	663.6
MEERUT	71.5	15.9	496.0	57.3	640.7
MIRZAPUR	11.2	15.0	1370.0	64.0	1460.2
MORADABAD	64.2	26.2	689.4	127.6	907.3
MUZAFFARNAGAR	74.2	22.0	555.7	71.0	722.7
PILIBHIT	40.8	7.4	371.9	70.2	490.3
PRATAPGARH	32.7	10.0	1109.5	117.0	1269.2
RAE BAREILLY	4.6	1.0	512.9	21.9	540.4
RAMPUR	44.3	11.4	468.7	53.0	577.4
SAHARANPUR	64.3	12.0	547.3	15.0	638.7

DISTRICT-WISE RAINFALL STATISTICS

Districts　　Seasons	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
SAMBHAL		19.0	492.5	135.5	
SANT KABIR NAGAR	32.2	19.0	1091.7	3.7	1146.6
SANT RAVIDAS NAGAR	70.0	7.0	1216.7	213.0	1506.7
SHAHJAHANPUR	36.4	17.9	660.5	97.6	812.4
SHAMLI	33.3	3.0	170.0	24.0	230.3
SHRAWASTI NAGAR	41.0	11.0	1258.7		
SIDDHARTH NAGAR	12.1	6.0	966.9	4.0	989.0
SITAPUR	63.2	10.3	574.4	22.9	670.8
SONBHADRA	11.2	28.1	931.1	80.6	1051.0
SULTANPUR	41.9	12.8	886.5	36.7	977.9
UNNAO	52.0	3.0	549.1	31.8	635.8
VARANASI	24.8	10.5	1046.1	74.8	1156.2
UTTARAKHAND					
ALMORA	174.5	69.0	700.4	123.5	1067.3
BAGESHWAR	178.3	76.0	1204.5	98.5	1557.4
CHAMOLI	247.9	141.2	840.9	134.1	1364.0
CHAMPAWAT	120.0	34.5	1051.2	76.0	1281.7
DEHRADUN	182.0	94.7	1092.0	81.6	1450.2
GARHWAL PAURI	159.2	34.2	711.7	106.4	1011.5
GARHWAL TEHRI	274.9	85.7	631.6	129.7	1121.9
HARDWAR	100.9	25.3	697.2	50.8	874.3
NAINITAL	151.9	74.8	1287.8	165.8	1680.2
PITHORAGARH	244.5	189.1	1411.3	86.1	1931.0
RUDRAPRAYAG	244.7	147.4	1260.6	134.2	1786.9
UDHAM SINGH NAGAR	51.1	17.9	962.0	100.7	1131.6
UTTARKASHI	255.7	128.9	769.5	127.1	1281.2
WEST BENGAL					
BANKURA	33.8	268.6	926.6	197.0	1426.0
BIRBHUM	27.6	214.5	760.7	198.4	1201.1
BURDWAN	64.0	194.0	735.6	219.6	1213.2
COOCH BEHAR	15.0	553.4	2059.2	119.9	2747.5
DARJEELING	27.1	316.8	2486.2	84.5	2914.6
EAST MIDNAPORE	137.5	149.2	1142.2	499.9	1928.7
HOOGHLY	86.4	213.3	737.6	209.0	1246.3
HOWRAH	150.7	138.1	1069.9	210.7	1569.4
JALPAIGURI	21.9	457.7	2827.7	134.6	3442.0
KOLKATA	147.2	220.2	1187.0	260.8	1815.2
MALDA	38.1	201.7	941.1	146.9	1327.8
MURSHIDABAD	34.5	273.5	634.9	187.8	1130.6
NADIA	75.3	194.2	648.8	210.3	1128.6
NORTH 24 PARGANAS	139.7	233.5	1051.7	312.4	1737.3
NORTH DINAJPUR	24.2	166.9	1110.4	66.4	1367.9
PURULIA	32.6	197.0	990.7	194.8	1415.1
SOUTH 24 PARGANAS	180.6	219.2	1250.3	420.2	2070.3
SOUTH DINAJPUR	16.7	188.6	965.0	169.8	1340.1
WEST MIDNAPORE	107.2	252.2	1104.4	173.1	1637.0

Table 24: % Departures of District-wise seasonal and annual rainfall – 2019

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Andaman & Nicobar Islands					
Nicobar	31%	-36%	0%	-42%	-19%
North & Middle Andaman	270%	-40%	80%	-67%	37%
South Andaman	31%	-41%	13%	-59%	-8%
Andhra Pradesh					
Anantapur	41%	-28%	13%	26%	11%
Chittoor	-23%	-60%	17%	0%	1%
Cuddapah	171%	-53%	3%	-8%	-5%
East Godavari	-79%	-54%	20%	-16%	2%
Guntur	66%	-69%	22%	-15%	4%
Krishna	68%	-44%	8%	-22%	-3%
Kurnool	355%	-43%	13%	-15%	3%
Nellore	-66%	-47%	4%	-11%	-10%
Prakasam	-21%	-42%	3%	-22%	-12%
Srikakulam	-95%	33%	10%	29%	14%
Vishakhapatnam	-95%	-27%	8%	-5%	-2%
Vizianagaram	-98%	-38%	12%	44%	10%
West Godavari	-36%	-87%	3%	-40%	-15%
Arunachal Pradesh					
Anjaw		-18%	-31%	-60%	
Changlang	-12%	12%	-16%	-47%	-10%
Dibang Valley			2%		
East Kameng	-100%	-59%	-34%	-70%	-47%
East Siang	-3%	-13%	-14%	-40%	-15%
Kurung Kumey	-17%	32%	19%	38%	22%
Lohit	-32%	-23%	8%	-63%	-11%
Lower Dibang Valley	-79%	-51%	65%	-57%	3%
Lower Subansiri			4%	-30%	
Papumpara	-6%	-9%	-10%	18%	-7%
Tawang	2%	-25%	-54%	-68%	-49%
Tirap	-55%		-46%	-43%	
Upper Siang	50%	-6%	-8%	-18%	-4%
Upper Subansiri	-65%	3%	5%	-27%	-3%
West Kameng	-65%	3%	5%	-27%	-3%
West Siang	-4%	-25%	-1%	-18%	-7%
Assam					
Baksa	1%	54%	49%	-64%	42%
Barpeta	6%	37%	-4%	-53%	1%
Bongaigaon	-56%	-20%	8%	-43%	-2%
Cachar	-52%	-39%	-4%	68%	-9%
Chirang	181%	-16%	17%	-36%	7%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Darrang	-82%	33%	-71%	-46%	-41%
Dhemaji			27%	56%	
Dhubri	-7%	-7%	-22%	-18%	-18%
Dibrugarh	-18%	18%	-18%	-16%	-9%
Goalpara	-36%	29%	-1%	-15%	5%
Golaghat	-16%	28%	-15%	12%	-2%
Hailakandi	-48%	-9%	-4%	31%	-4%
Jorhat	-36%	18%	-7%	27%	1%
Kamrup (Rural)	-78%	57%	-28%	-39%	-7%
Kamrup Metro.	-45%	43%	-5%	83%	13%
Karbi Anglong	-80%	25%	-43%	30%	-22%
Karimganj	-75%	-29%	-14%	28%	-17%
Kokrajhar	-9%	24%	13%	-48%	11%
Lakhimpur	-30%	10%	3%	55%	7%
Morigaon	-80%	-2%	-35%	8%	-26%
N. C. Hills	-81%	-20%	-20%	10%	-18%
Nagaon	-34%	-28%	-36%	11%	-30%
Nalbari	-51%	52%	13%	-37%	19%
Shonitpur	-32%	29%	1%	-5%	7%
Sibsagar	-23%	41%	-26%	23%	-6%
Tinsukia	-5%	13%	-10%	-39%	-6%
Udalguri	43%	28%	17%	-46%	16%
Bihar					
Araria	118%	13%	6%	-91%	3%
Arwal	22%	-56%	-31%	-5%	-29%
Aurangabad	-31%	-85%	0%	3%	-4%
Banka	128%	37%	-10%	37%	0%
Begusarai	15%	-75%	-26%	-26%	-29%
Bhabua	-15%	-80%	15%	72%	14%
Bhagalpur	133%	1%	10%	-37%	8%
Bhojpur	3%	106%	-7%	-59%	-5%
Buxar	-9%	-59%	31%	-20%	24%
Darbhanga	6%	-8%	10%	-71%	2%
East Champaran	24%	-49%	9%	-60%	1%
Gaya	25%	-18%	-1%	-30%	-3%
Gopalganj	2%	-79%	40%	-65%	27%
Jahanabad	-8%	56%	2%	49%	6%
Jamui	206%	-49%	-13%	2%	-10%
Katihar	77%	-6%	-8%	-50%	-10%
Khagaria	109%	-60%	-2%	-31%	-7%
Kishanganj	100%	38%	-3%	-72%	-1%
Lakhisarai	266%	-62%	-16%	-32%	-17%
Madhepura	80%	-31%	14%	-41%	7%
Madhubani	22%	55%	3%	-72%	3%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Monghyr	90%		-17%	-52%	
Muzaffarpur	68%	-80%	8%	-42%	-1%
Nalanda	97%	83%	11%	-35%	13%
Nawada	72%	-70%	9%	-34%	3%
Patna	-56%	-72%	-7%	-62%	-14%
Purnea	136%	-27%	-9%	-62%	-13%
Rohtas	-57%	-45%	-9%	-16%	-12%
Saharsa	-25%	-69%	-18%	-83%	-27%
Samastipur	78%	-57%	34%	-40%	22%
Saran	1%	-66%	5%	-46%	-1%
Sheikhpura	61%	-83%	-27%	-68%	-31%
Sheohar	-34%	-40%	-3%	-84%	-10%
Sitamarhi	36%	-17%	1%	-83%	-5%
Siwan	5%	-63%	32%	-36%	23%
Supaul	10%	5%	18%	-89%	10%
Vaishali	16%	-80%	2%	-62%	-7%
West Champaran	273%	56%	12%	-48%	17%
Chandigarh (Ut)					
Chandigarh (Ut)	-9%	-2%	-15%	18%	-12%
Chhattisgarh					
Balod	188%	181%	3%	57%	11%
Baloda Bazar	271%	54%	1%	-17%	4%
Balrampur	76%	8%	-13%	43%	-8%
Bastar	26%	-41%	54%	44%	43%
Bemetara	56%	-19%	-7%	-41%	-8%
Bijapur	320%	-24%	68%	54%	68%
Bilaspur	4%	-14%	3%	-33%	0%
Dantewada	-63%	223%	29%	-12%	26%
Dhamtari	-41%	59%	9%	76%	13%
Durg	-4%	-63%	-11%	36%	-9%
Gariaband	-22%	-26%	11%	20%	10%
Janjgir	51%	-12%	-11%	20%	-9%
Jashpur	-43%	-31%	-20%	69%	-15%
Kabirdham	33%	-2%	1%	-66%	-4%
Kanker	-23%	-78%	4%	115%	7%
Kondagaon	-10%	-18%	38%	99%	39%
Korba	-29%	9%	-5%	102%	0%
Koriya	16%	-1%	-6%	-17%	-6%
Mahasamund	127%	-51%	12%	48%	13%
Mungeli	8%	15%	-20%	-40%	-19%
Narayanpur	-58%	-31%	49%	160%	52%
Raigarh	-14%	-47%	5%	32%	4%
Raipur	130%	-76%	-5%	-1%	-5%
Rajnandgaon	29%	-22%	-7%	-37%	-9%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Sukma	-100%	16%	51%	20%	47%
Surajpur	63%	78%	9%	99%	16%
Surguja	-13%	-86%	-32%	22%	-30%
Dadara & Nagar Haveli					
Dadara & Nagar Haveli	-100%	-100%	68%	175%	70%
Daman & Diu					
Daman	-23%	41%	-26%	23%	-6%
Diu	-5%	13%	-10%	-39%	-6%
Delhi					
Central Delhi	-37%	-93%		179%	
East Delhi	142%	-71%	-52%	1%	-44%
New Delhi	117%	-42%	-42%	215%	-26%
North Delhi	217%	-37%	-11%	286%	4%
North East Delhi	171%	-34%	-48%	40%	-35%
North West Delhi	32%	-84%		-36%	
South Delhi	132%	-26%	-33%	47%	-23%
South West Delhi	114%	-30%	-44%	181%	-28%
West Delhi	-4%	-51%			
Goa					
North Goa	-100%	-97%	34%	165%	39%
South Goa	-100%	-96%	29%	194%	36%
Gujarat Region					
Ahmedabad	-100%	-90%	5%	134%	8%
Amreli	-100%	-96%	43%	126%	48%
Anand	-100%	-100%	28%	171%	32%
Aravalli	307%	-90%	22%	298%	29%
Banaskantha	-79%	-51%	7%	361%	20%
Bharuch	-100%	-100%	62%	154%	64%
Bhavnagar	-100%	-99%	34%	68%	35%
Botad	-100%	-100%	76%	78%	74%
Chhota Udepur	-100%	-100%	73%	109%	73%
Dahod	-100%	-100%	5%	45%	6%
Dangs	-100%	-100%	36%	49%	36%
Devbhoomi Dwarka	20%	-100%	96%	-10%	90%
Gandhinagar	-100%	-100%	19%	148%	21%
Gir Somnath	-89%	-100%	32%	9%	31%
Jamnagar	-100%	-100%	98%	41%	93%
Junagadh	-100%	-100%	60%	64%	59%
Kheda	-100%	-100%	21%	191%	25%
Kutch	81%	-93%	81%	150%	83%
Mahisagar	-100%	-100%	12%	65%	13%
Mehsana	-85%	-49%	7%	349%	17%
Morbi	-100%	11%	64%	502%	81%
Narmada	-100%	-100%	48%	125%	50%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Navsari	-100%	-100%	29%	215%	33%
Panchmahal	-100%	-100%	32%	18%	31%
Patan	-20%	-93%	31%	501%	44%
Porbandar	-100%	-100%	47%	-2%	44%
Rajkot	-100%	-99%	59%	50%	58%
Sabarkantha	-81%	4%	20%	370%	31%
Surat	-100%	-100%	42%	110%	43%
Surendranagar	-100%	-85%	60%	399%	74%
Tapi	-100%	-100%	24%	100%	25%
Vadodara	-100%	-100%	18%	99%	20%
Valsad	-100%	-100%	43%	157%	45%
Haryana					
Ambala	15%	5%	-26%	-11%	-21%
Bhiwani	-38%	9%	-45%	102%	-35%
Faridabad	89%	-11%	-41%	-43%	-34%
Fatehabad	-67%	-61%	-63%	95%	-56%
Gurgaon	19%	-5%	-43%	58%	-35%
Hisar	-39%	37%	-48%	13%	-37%
Jhajjar	-10%	-35%	-57%	98%	-49%
Jind	-8%	-45%	-51%	16%	-45%
Kaithal	201%	64%	-50%	120%	-19%
Karnal	-6%	-11%	-23%	37%	-19%
Kurukshetra	24%	19%	-23%	23%	-15%
Mahendragarh	-67%	-39%	-49%	25%	-46%
Mewat	93%	-16%	-46%	-49%	-40%
Palwal	-14%	16%	-41%	-17%	-37%
Panchkula	-50%	-48%	-57%	-26%	-55%
Panipat	-6%	-61%	-62%	81%	-54%
Rewari	-16%	-23%	-26%	106%	-22%
Rohtak	-50%	-17%	-72%	48%	-62%
Sirsa	-13%	57%	-13%	134%	2%
Sonepat	-12%	-29%	-56%	89%	-46%
Yamuna Nagar	23%	-19%	-15%	9%	-12%
Himachal Pradesh					
Bilaspur	83%	-38%	27%	81%	29%
Chamba	31%	-40%	-46%	47%	-27%
Hamirpur	122%	-44%	13%	70%	21%
Kangra	99%	-29%	-18%	93%	-5%
Kinnaur	16%	-30%	-52%	53%	-17%
Kullu	127%	2%	12%	141%	40%
Lahaul & Spiti	15%	-74%	-60%	-40%	-44%
Mandi	105%	-28%	-11%	38%	0%
Shimla	28%	-21%	6%	24%	6%
Sirmaur	94%	6%	-16%	74%	-4%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Solan	66%	-14%	-14%	1%	-6%
Una	210%	-11%	9%	76%	27%
Jammu & Kashmir					
Anantnag	84%	-42%	-23%	180%	13%
Badgam	50%	-41%	-14%	194%	14%
Bandipore	39%	-2%	19%	64%	22%
Baramula	80%	-14%	63%	86%	40%
Doda	84%	-34%	-19%	54%	9%
Ganderbal	69%	-16%	-29%	110%	9%
Jammu	74%	-42%	-56%	32%	-34%
Kargil	482%	-81%	-44%		
Kathua	47%	-67%	-39%	20%	-30%
Kistwar					
Kulgam	23%	-39%	16%	129%	15%
Kupwara	76%	-19%	-15%	130%	24%
Ladakh (Leh)	83%	-94%	-47%	-100%	-37%
Poonch			-30%	-63%	
Pulwama	88%	-51%	-14%	164%	10%
Rajouri	72%	-23%	-51%	64%	-21%
Ramban	52%	-38%	-10%	122%	16%
Reasi	54%	-17%	49%	154%	48%
Samba	27%	-71%	-31%	121%	-20%
Shopian				130%	
Srinagar	47%	-29%	4%	144%	23%
Udhampur	81%	-38%	-19%	117%	-1%
Jharkhand					
Bokaro	10%	7%	-17%	69%	-8%
Chatra	43%	-57%	-30%	-6%	-28%
Deoghar	34%	57%	-26%	53%	-13%
Dhanbad	-14%	11%	-15%	65%	-7%
Dumka	33%	55%	-7%	-29%	-3%
East Singbhum	120%	118%	6%	191%	32%
Garhwa	-70%	-36%	-52%	-17%	-51%
Giridih	-49%	21%	-17%	85%	-7%
Godda	-100%	37%	-42%	-14%	-35%
Gumla	-52%	24%	-18%	67%	-10%
Hazaribag	-29%	-68%	-20%	41%	-18%
Jamtara	-53%	14%	-10%	60%	-3%
Khunti	-77%	95%	-39%	-12%	-31%
Koderma	31%	-82%	3%	-19%	-3%
Latehar	39%	-31%	-39%	-13%	-35%
Lohardaga	-42%	-3%	-10%	33%	-8%
Pakur	35%	-5%	-41%	-6%	-33%
Palamu	-43%	-35%	-2%	-17%	-4%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Ramgarh	1%	28%	-6%	151%	7%
Ranchi	-9%	-3%	-30%	104%	-18%
Sahibganj	9%	140%	46%	-5%	49%
Seraikela-Kharsawan	-82%	55%	-26%	142%	-12%
Simdega	-16%	34%	-3%	117%	6%
West Singbhum	34%	90%	-15%	144%	6%
Karnataka					
Bagalkote	-100%	-30%	25%	109%	37%
Ballari	-53%	-45%	12%	50%	14%
Belagavi	-84%	-59%	89%	161%	83%
Bengaluru Rural	-30%	49%	-8%	14%	8%
Bengaluru Urban	370%	15%	-5%	41%	13%
Bidar	-68%	-76%	-5%	82%	1%
Chamarajanagar	-31%	-23%	16%	-4%	-1%
Chikaballapura	33%	28%	-8%	6%	1%
Chikkamagaluru	68%	-44%	31%	107%	33%
Chitradurga	62%	-36%	34%	91%	37%
Dakshina Kannada	-82%	-68%	5%	68%	6%
Davangere	-37%	-20%	24%	116%	40%
Dharwad	-100%	-20%	42%	100%	42%
Gadag	-100%	-56%	21%	92%	24%
Hassan	57%	-1%	24%	45%	24%
Haveri	-100%	-61%	52%	171%	59%
Kalaburgi	-100%	-53%	1%	38%	2%
Kodagu	-79%	-45%	17%	31%	13%
Kolar	702%	54%	-20%	-6%	2%
Koppal	-6%	-34%	9%	77%	20%
Mandya	-72%	8%	37%	65%	38%
Mysuru	70%	6%	67%	21%	40%
Raichur	-52%	-53%	-5%	-30%	-15%
Ramanagara	-7%	-16%	-6%	22%	-1%
Shivamogga	-75%	-75%	33%	102%	33%
Tumakuru	29%	-22%	15%	41%	16%
Udupi	-100%	-92%	21%	152%	25%
Uttara Kannada	-100%	-63%	33%	167%	38%
Vijayapura	-100%	-28%	-10%	39%	-1%
Yadgir	-100%	-38%	-16%	-41%	-23%
Kerala					
Alapuzha	-93%	-76%	4%	23%	-6%
Cannur	-100%	-74%	19%	62%	16%
Ernakulam	-74%	-53%	17%	56%	13%
Idukki	-11%	-58%	-11%	-9%	-16%
Kasargod	-100%	-77%	15%	83%	15%
Kollam	-60%	-53-%	11%	-3%	-6%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Kottayam	-52%	-66%	13%	45%	7%
Kozhikode	-100%	-75%	35%	55%	26%
Malappuram	-94%	-60%	18%	41%	13%
Palakkad	-59%	-41%	39%	22%	27%
Pathanamthitta	31%	-11%	6%	24%	8%
Thiruvananthapuram	-68%	-53%	20%	-3%	-3%
Thrissur	-75%	-58%	10%	27%	4%
Wynad	10%	-2%	-6%	38%	-1%
Lakshadweep					
Lakshadweep	12%	-81%	21%	164%	37%
East Madhya Pradesh					
Agar-Malwa	-100%	0%	128%	40%	120%
Alirajpur	-100%	-69%	78%	241%	82%
Anuppur	-13%	41%	22%	-60%	17%
Ashoknagar	23%	60%	60%	60%	60%
Balaghat	31%	-33%	-3%	-64%	-6%
Barwani	-100%	-98%	73%	29%	67%
Betul	-97%	-47%	31%	81%	30%
Bhind	94%	-39%	12%	-55%	9%
Bhopal	-98%	-30%	83%	169%	82%
Burhanpur	-100%	-86%	63%	76%	58%
Chhatarpur	-55%	-7%	27%	24%	24%
Chhindwara	8%	-15%	27%	10%	25%
Damoh	-88%	-69%	42%	-23%	34%
Datia	70%	-6%	-5%	-47%	-5%
Dewas	-100%	-88%	62%	-23%	55%
Dhar	-94%	-23%	46%	28%	43%
Dindori	-46%	22%	23%	93%	24%
Guna	-58%	10%	75%	-27%	67%
Gwalior	57%	51%	10%	-75%	7%
Harda	-23%	43%	53%	58%	52%
Hoshangabad	-60%	123%	48%	42%	47%
Indore	-64%	-92%	73%	13%	67%
Jabalpur	-57%	-9%	43%	-23%	37%
Jhabua	-45%	-72%	84%	153%	86%
Katni	-5%	386%	27%	92%	31%
Khandwa	-100%	-100%	66%	65%	62%
Khargone	-100%	-100%	42%	-4%	36%
Mandla	-33%	-13%	44%	14%	39%
Mandsaur	-79%	253%	157%	80%	152%
Morena	153%	79%	12%	28%	17%
Narsinghpur	-99%	-53%	64%	-67%	54%
Neemuch	-52%	65%	131%	96%	127%
Panna	-88%	-100%	3%	73%	1%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Raisen	-66%	-31%	73%	10%	67%
Rajgarh	-100%	-28%	96%	59%	89%
Ratlam	-100%	128%	80%	45%	78%
Rewa	15%	93%	26%	41%	28%
Sagar	-97%	-19%	41%	-64%	32%
Satna	-6%	67%	-5%	-49%	-6%
Sehore	-81%	-17%	70%	-5%	63%
Seoni	-39%	-48%	44%	18%	36%
Shahdol	-62%	72%	-12%	21%	-11%
Shajapur	-100%	-59%	93%	71%	87%
Sheopur	18%	96%	27%	-25%	25%
Shivpuri	-38%	65%	15%	2%	14%
Sidhi	-34%	-2%	-7%	94%	-3%
Singrauli	14%	288%	45%	60%	49%
Tikamgarh	-83%	-12%	18%	150%	21%
Ujjain	-55%	6%	75%	73%	73%
Umaria	-59%	-5%	24%	-56%	16%
Vidisha	-92%	37%	63%	-5%	57%
Maharashtra					
Ahmednagar	-100%		17%	174%	
Akola	-98%	-97%	18%	16%	13%
Amraoti	-67%	-71%	3%	-42%	-3%
Aurangabad	-100%	-99%	4%	137%	18%
Beed	-58%	-70%	-27%	212%	7%
Bhandara	-20%	-54%	6%	-48%	0%
Buldhana	-100%	-95%	2%	53%	5%
Chandrapur	-2%	-68%	17%	4%	13%
Dhule			81%	145%	
Gadchiroli	59%	-77%	49%	-9%	42%
Gondia	-5%	-19%	-3%	-45%	-6%
Hingoli			-16%	83%	
Jalgaon	-100%	-91%	38%	175%	48%
Jalna	-100%	-93%	-13%	244%	16%
Kolhapur	-100%	-86%	69%	99%	65%
Latur	-100%	-72%	-22%	119%	-7%
Mumbai City	-100%	-100%	35%	48%	34%
Mumbai Suburban	-100%	-100%	66%	108%	66%
Nagpur	-36%	-79%	27%	-37%	17%
Nanded	-100%	-90%	0%	129%	10%
Nandurbar			56%	0%	
Nashik	-100%	-70%	66%	97%	66%
Osmanabad	-100%	-82%	-15%	130%	2%
Palghar	-100%	-100%	68%	72%	68%
Parbhani	-100%	-64%	-15%	180%	5%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Pune	-100%	-77%	109%	124%	105%
Raigad	-100%	-99%	57%	79%	57%
Ratnagiri	-100%	-99%	47%	44%	45%
Sangli	-100%	-66%	26%	96%	30%
Satara	-100%	-86%	60%	91%	57%
Sholapur	-100%	-47%	-38%	132%	-6%
Sindhudurg	-100%	-99%	45%	159%	49%
Thane			68%	93%	
Wardha	-51%	-91%	12%	-36%	3%
Washim	-100%	-81%	-20%	48%	-15%
Yeotmal	-100%	-89%	-30%	-48%	-34%
Manipur					
Bishnupur	-87%	-45%	-61%	-68%	-61%
Chandel	-33%	-71%	-80%	-77%	-78%
Churachandpur	-71%	-61%	-57%	-72%	-59%
Imphal East	-70%	-69%	-60%	-27%	-59%
Imphal West	-63%	-10%	-9%	-46%	-16%
Senapati			-40%	3%	
Tamenglong	-94%	-68%	-78%		
Thoubal			-50%	-26%	
Ukhrul	-74%	-36%	-31%	42%	-25%
Meghalaya					
East Garo Hills	0%	0%	0%	0%	0%
East Khasi Hills	138%	-40%	41%	-57%	7%
Jaintia Hills	0%	0%	0%	0%	0%
Ri-Bhoi	31%	-36%	0%	-42%	-19%
South Garo Hills	270%	-40%	80%	-67%	37%
West Garo Hills	198%	-41%	13%	-59%	-8%
West Khasi Hills	0%	0%	0%	0%	0%
Mizoram					
Aizwal	-1%	-37%	-19%	-29%	-25%
Champhai	-14%		-20%	-64%	
Kolasib	-90%		6%	-32%	
Lawngtlai			17%	-40%	
Lunglei	60%	-82%	18%	-55%	-8%
Mamit			-40%	51%	
Saiha			-9%	-62%	
Serchhip	-98%		-41%	-79%	
Nagaland					
Dimapur	-60%	-7%	-34%	49%	-21%
Kephire	-27%	-21%	-17%	147%	0%
Kohima	-50%	-4%	-22%	32%	-14%
Longleng	7%			40%	
Mokokchung	-13%	-5%	-12%	59%	-5%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Mon	-70%	-1%	-6%	52%	-3%
Paren	-2%	-44%	29%	88%	20%
Phek	-48%	13%	-3%	32%	4%
Tuensang	-15%	-35%	-7%	63%	-8%
Wokha	-64%	-50%	-39%	31%	-37%
Zunheboto	-42%	-41%		6%	
Odisha					
Angul	20%	20%	-12%	46%	-4%
Balasore	39%	19%	-19%	48%	-5%
Bargarh	-34%	51%	20%	4%	19%
Bhadrak	-53%	-9%	1%	50%	5%
Bolangir	-61%	-22%	17%	-44%	9%
Boudhgarh	-22%	25%	21%	13%	20%
Cuttack	0%	50%	7%	72%	18%
Deogarh	41%	87%	-16%	87%	-4%
Dhenkanal	-11%	46%	5%	12%	10%
Gajapati	-92%	1%	-11%	42%	-4%
Ganjam	-99%	29%	23%	44%	24%
Jagatsinghpur	-96%	-12%	15%	68%	17%
Jajpur	-54%	45%	-13%	46%	-1%
Jharsuguda	28%	20%	33%	80%	35%
Kalahandi	-63%	-42%	11%	36%	9%
Kandhamal	-34%	-13%	13%	11%	9%
Kendrapara	-100%	-5%	-2%	50%	3%
Keonjhargarh	52%	25%	-10%	41%	0%
Khurda	-42%	60%	5%	79%	19%
Koraput	-87%	-14%	34%	82%	33%
Malkangiri	-88%	-31%	14%	-9%	9%
Mayurbhanj	122%	61%	-7%	41%	9%
Nawapara	14%	-37%	4%	-11%	0%
Nawarangpur	-61%	-1%	3%	-32%	-1%
Nayagarh	-27%	48%	14%	59%	21%
Puri	-100%	47%	26%	83%	33%
Rayagada	-89%	-30%	9%	59%	7%
Sambalpur	-7%	-20%	1%	52%	2%
Sonepur	-21%	59%	21%	-6%	21%
Sundargarh	53%	36%	-1%	144%	10%
Pondicherry (Ut)					
Karaikal	-84%	-100%	19%	2%	-6%
Mahe			19%	84%	
Puducherry	-100%	-76%	46%	-26%	-11%
Yanam			-16%	4%	
Punjab					
Amritsar	82%	-38%	-33%	147%	-15%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Barnala	56%	-10%	-25%	319%	-3%
Bhatinda	5%	33%	20%	163%	25%
Faridkot	-11%	134%	-8%	271%	15%
Fatehgarh Sahib	76%	31%	-11%	26%	-1%
Ferozepur	-9%	27%	-50%	132%	-32%
Gurdaspur	187%	-39%	7%	163%	28%
Hoshiarpur	221%	-28%	-29%	99%	-2%
Jalandhar	86%	-43%	-30%	90%	-17%
Kapurthala	285%	6%	134%	352%	143%
Ludhiana	206%	6%	12%	87%	29%
Mansa	-5%	44%	-27%	119%	-16%
Moga	27%	-6%	-26%	242%	-11%
Muktsar	8%	95%	25%	219%	39%
Nawanshahar	147%	-4%	0%	108%	16%
Patiala	97%	22%	35%	129%	42%
Ropar	166%	2%	10%	118%	27%
Sangrur	-1%	17%	-36%	50%	-25%
Sas Nagar (Mohali)	14%	-38%	5%	54%	4%
Tarn Taran	174%	14%	1%	225%	29%
Rajasthan					
Ajmer	66%	-3%	82%	80%	79%
Alwar	-8%	23%	-32%	21%	-26%
Banswara	-100%	-100%	45%	86%	45%
Baran	-4%	280%	60%	-37%	58%
Barmer	-42%	116%	15%	479%	39%
Bharatpur	107%	91%	-11%	-30%	-4%
Bhilwara	-65%	46%	83%	-53%	75%
Bikaner	-61%	6%	-12%	337%	3%
Bundi	-100%	64%	87%	-68%	78%
Chittorgarh	-67%	85%	68%	43%	67%
Churu	-83%	50%	17%	293%	25%
Dausa	9%	12%	10%	28%	11%
Dholpur	179%	65%	14%	83%	22%
Dungarpur	-100%	-21%	61%	335%	70%
Hanumangarh	-65%	152%	-43%	244%	-16%
Jaipur	-29%	-10%	39%	-13%	33%
Jaisalmer	254%	62%	0%	730%	38%
Jalore	-100%	-5%	33%	20%	30%
Jhalawar	95%	203%	105%	7%	100%
Jhunjhunu	-56%	-43%	48%	117%	40%
Jodhpur	-15%	8%	43%	265%	46%
Karauli	-4%	41%	-14%	52%	-10%
Kota	-29%	144%	80%	-4%	76%
Nagaur	-67%	0%	52%	272%	53%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Pali	69%	5%	54%	-25%	50%
Pratapgarh	-100%	147%	92%	232%	98%
Rajsamand	-100%	70%	66%	11%	62%
Sawai Madhopur	-67%	-17%	51%	-36%	42%
Sikar	-48%	36%	74%	101%	68%
Sirohi	-84%	28%	14%	56%	15%
Sri Ganganagar	-40%	113%	-26%	294%	0%
Tonk	-52%	-17%	50%	-18%	45%
Udaipur	-19%	51%	66%	243%	72%
Sikkim					
East Sikkim	-30%	16%	-1%	-54%	-2%
North Sikkim	-9%	25%	36%	-48%	23%
South Sikkim	-44%	-19%	-35%	-40%	-32%
West Sikkim	-20%	8%	-8%	-57%	-10%
Tamilnadu					
Ariyalur	-100%	-99%	56%	-9%	2%
Chennai	-95%	-100%	34%	-16%	-4%
Coimbatore	-88%	-63%	12%	29%	5%
Cuddalore	-95%	-93%	10%	-2%	-8%
Dharmapuri	-29%	-27%	10%	-16%	-7%
Dindigul	-80%	-64%	-19%	-16%	-27%
Erode	-88%	-45%	-3%	8%	-8%
Kancheepuram	-99%	-87%	-10%	1%	-10%
Kanyakumari	-68%	-65%	28%	1%	-4%
Karur	-100%	-64%	5%	-11%	-17%
Krishnagiri	56%	2%	-20%	-8%	-11%
Madurai	-77%	-63%	-7%	-26%	-27%
Nagapattinam	-96%	-99%	40%	14%	5%
Namakkal	-54%	-48%	-19%	-6%	-20%
Nilgiris	-75%	1%	40%	64%	39%
Perambalur	-100%	-36%	28%	-28%	-13%
Pudukkottai	-100%	-89%	4%	27%	2%
Ramanathapuram	-98%	-93%	13%	45%	13%
Salem	-52%	-30%	17%	-12%	-3%
Sivaganga	-88%	-86%	50%	16%	11%
Thanjavur	-93%	-94%	21%	-7%	-11%
Theni	-66%	-31%	63%	-15%	1%
Tirunelveli	-64%	-47%	110%	45%	29%
Tiruppur	-77%	-79%	20%	-13%	-20%
Tiruvallur	-98%	-85%	29%	-9%	-1%
Tiruvannamalai	-96%	-57%	52%	-25%	4%
Tiruvarur	-99%	-93%	44%	-8%	-6%
Toothukudi	-87%	-89%	39%	31%	3%
Trichy	-100%	-67%	-1%	-16%	-19%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Vellore	-81%	-64%	16%	-27%	-11%
Villupuram	-100%	-70%	12%	-15%	-11%
Virudhunagar	-66%	-91%	64%	-4%	-7%
Telangana					
Adilabad	-90%	-86%	2%	-20%	-5%
B. Kothagudem	-27%	-46%	19%	45%	16%
Hyderabad	-36%	-31%	13%	9%	7%
J. Bhupalpally	82%	-47%	16%	142%	25%
Jagtial	125%	-81%	20%	51%	21%
Jangaon	105%	53%	10%	89%	25%
Jogulamba Gadwal	2488%	-56%	-20%	-17%	-16%
Kamareddy	-52%	-82%	15%	64%	15%
Karimnagar	210%	-75%	39%	136%	48%
Khammam	184%	-47%	-12%	1%	-11%
Kumaram Bheem	62%	-58%	29%	8%	25%
M. Malkajgiri	-26%	-33%	-5%	32%	-2%
Mahabubabad	115%	-42%	9%	66%	15%
Mahabubnagar	35%	-72%	-6%	25%	-6%
Mancherial	4%	-48%	10%	40%	11%
Medak	21%	-70%	3%	10%	0%
Nagarkurnool	607%	-40%	-4%	9%	-1%
Nalgonda	197%	-56%	-14%	-9%	-13%
Nirmal	-90%	-80%	1%	46%	1%
Nizamabad	-85%	-95%	22%	62%	20%
Peddapalle	179%	-88%	18%	60%	21%
Rajanna Sircilla	265%	-73%	27%	85%	34%
Rangareddy	84%	-10%	-18%	11%	-12%
Sangareddy	19%	-72%	-20%	10%	-19%
Siddipet	130%	-50%	12%	104%	23%
Suryapet	153%	-46%	-7%	4%	-5%
Vikarabad	-95%	-78%	-23%	9%	-24%
Wanaparthy	300%	-74%	6%	17%	4%
Warangal_Rural	-5%	-54%	3%	139%	16%
Warangal_Urban	71%	18%	37%	127%	48%
Y. Bhuvanagiri	-26%	-11%	9%	51%	16%
Tripura					
Dhalai	-5%	-13%	11%	6%	4%
North Tripura	8%	10%	-2%	64%	7%
South Tripura	43%	-39%	-18%	-6%	-21%
West Tripura	98%	-32%	-10%	-26%	-17%
Uttar Pradesh					
Agra	51%	-12%	-16%	43%	-11%
Aligarh	25%	26%	-40%	-31%	-35%
Allahabad	-43%	-79%	24%	99%	23%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Ambedkar Nagar	-16%	-100%	45%	-63%	33%
Amethi	8%	-64%	10%	-44%	5%
Auraiya	-67%	-63%	-16%	-30%	-19%
Azamgarh	20%	-91%	-3%	-50%	-7%
Badaun	25%	-6%	-48%	-12%	-43%
Baghpat	130%	-51%	-42%	241%	-25%
Bahraich	203%	-75%	7%	-28%	7%
Ballia	-36%	-70%	42%	-15%	32%
Balrampur	21%	-89%	41%		
Banda	-67%	-70%	13%	56%	11%
Barabanki	82%	-88%	43%	-40%	36%
Bareilly	52%	-45%	-7%	128%	0%
Basti	180%	-66%	54%	-48%	47%
Bijnor	160%	-63%	-14%	110%	-4%
Bulandshahar	81%	-5%	-48%	3%	-40%
Chandauli	-47%	-83%	-3%	287%	6%
Chitrakoot	-17%	-85%	9%	251%	18%
Deoria	57%	-60%	-7%	-28%	-9%
Etah	36%	-35%	2%	84%	5%
Etawah	26%	-76%	-24%	-6%	-23%
Faizabad	43%	-97%	10%	-64%	3%
Farrukhabad	-24%	-64%	-32%	45%	-29%
Fatehpur	-24%	-64%	-27%	32%	-25%
Firozabad	62%	-41%	-31%	21%	-26%
Gautam Buddha Nagar	352%	362%	-24%	867%	28%
Ghaziabad	50%	-3%	-73%	-41%	-65%
Ghazipur	-19%	-72%	7%	6%	4%
Gonda	273%	-75%	-8%	-74%	-9%
Gorakhpur	24%	-81%	3%	-82%	-4%
Hamirpur	16%	-36%	25%	74%	26%
Hapur	21%	-71%	-46%	203%	-37%
Hardoi	19%	-71%	-16%	-4%	-16%
Jalaun	57%	-52%	-21%	-31%	-20%
Jaunpur	-61%	-87%	-14%	-47%	-19%
Jhansi	1%	-31%	-19%	46%	-16%
Jyotiba Phule Nagar	-29%	-58%	-52%	58%	-48%
Kannauj	69%	-37%	5%	40%	8%
Kanpur City	155%	-41%	1%	-33%	2%
Kanpur Dehat	-39%	-92%	-59%	-56%	-59%
Kanshiram Nagar	120%	-17%	-15%	-76%	-13%
Kaushambi	-4%	-100%	9%	210%	17%
Kheri	57%	-53%	-44%	21%	-37%
Kushi Nagar	15%	-86%	-22%	-85%	-28%
Lalitpur	-69%	-35%	7%	19%	6%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Lucknow	71%	-84%	22%	-60%	15%
Mahamaya Nagar		56%	-16%	-40%	
Maharajganj	70%	-74%	-38%	-83%	-40%
Mahoba	-88%	-65%	-23%	66%	-22%
Mainpuri	8%	-71%	-49%	0%	-46%
Mathura	-11%	-50%	-44%	22%	-41%
Mau	-62%	-100%	-25%	-37%	-28%
Meerut	95%	-62%	-33%	116%	-25%
Mirzapur	-63%	-36%	61%	61%	55%
Moradabad	52%	-29%	-19%	230%	-6%
Muzaffarnagar	80%	-42%	-23%	193%	-13%
Pilibhit	36%	-82%	-60%	59%	-53%
Pratapgarh	45%	-49%	43%	198%	48%
Rae Bareilly	-66%	-91%	-11%	-51%	-16%
Rampur	19%	-69%	-43%	34%	-39%
Saharanpur	20%	-79%	-30%	-60%	-31%
Sambhal		-16%	-30%	316%	
Sant Kabir Nagar	41%	-47%	10%	-91%	5%
Sant Ravidas Nagar	165%	-71%	60%	502%	79%
Shahjahanpur	18%	-62%	-21%	114%	-15%
Shamli	-15%	-92%	-72%	-2%	-68%
Shrawasti Nagar	25%	-82%	25%		
Siddharth Nagar	-47%	-90%	-10%	-93%	-18%
Sitapur	131%	-70%	-32%	-55%	-30%
Sonbhadra	-61%	20%	12%	91%	14%
Sultanpur	108%	-55%	4%	-24%	3%
Unnao	79%	-87%	-26%	-35%	-24%
Varanasi	-32%	-61%	18%	65%	16%
Uttarakhand					
Almora	95%	-45%	-17%	152%	-4%
Bageshwar	99%	-40%	43%	101%	41%
Chamoli	108%	-24%	8%	129%	20%
Champawat	49%	-69%	-21%	-8%	-20%
Dehradun	92%	-27%	-28%	21%	-20%
Garhwal Pauri	79%	-66%	-42%	137%	-31%
Garhwal Tehri	164%	-38%	-36%	128%	-13%
Hardwar	55%	-64%	-28%	42%	-23%
Nainital	83%	-44%	-10%	150%	-2%
Pithoragarh	125%	-19%	-9%	5%	-2%
Rudraprayag	100%	-36%	-15%	93%	-6%
Udham Singh Nagar	15%	-70%	-10%	99%	-8%
Uttarkashi	87%	-33%	-36%	110%	-20%
West Bengal					
Bankura	15%	79%	-20%	39%	-4%

DISTRICT-WISE RAINFALL STATISTICS

	Winter	Pre-Monsoon	SW-Monsoon	Post-Monsoon	Annual
Birbhum	-4%	33%	-35%	50%	-20%
Burdwan	139%	47%	-26%	98%	-4%
Cooch Behar	-36%	8%	-20%	-32%	-16%
Darjeeling	-27%	-28%	0%	-51%	-7%
East Midnapore	258%	-23%	-13%	136%	10%
Hooghly	134%	14%	-30%	53%	-11%
Howrah	337%	-34%	-11%	28%	-2%
Jalpaiguri	-29%	-16%	0%	-33%	-5%
Kolkata	286%	2%	-10%	32%	2%
Malda	73%	20%	-15%	5%	-8%
Murshidabad	40%	38%	-40%	30%	-21%
Nadia	207%	4%	-28%	84%	-8%
North 24 Parganas	303%	1%	-17%	70%	1%
North Dinajpur	53%	-33%	-26%	-54%	-28%
Purulia	-13%	51%	-9%	65%	2%
South 24 Parganas	363%	-4%	-17%	70%	3%
South Dinajpur	-23%	-23%	-18%	24%	-15%
West Midnapore	208%	15%	-7%	28%	4%

6.2　CATEGORYWISE SEASONAL AND ANNUAL DISTRIBUTION

The categorywise seasonal and annual distribution of no. of districts of India has been given in Table 24 and a chart depicting the distribution is also given at Figure 107. It may be observed that out of the 683 districts, in Monsoon and annually both, more than 2/3rd of the districts experienced excess or normal rainfall, 12 districts during Monsoon and 5 no of districts annually remained in Large Deficient category of rainfall. Only during Pre-Monsoon season, more than half of the districts of the country had "Below Normal" Monsoon Rainfall.

Table 24: Category-wise Number of Districts - Seasonally and Annually - Year 2019

CATEGORY	WINTER	PRE-MONSOON	MONSOON	POST-MONSOON	ANNUAL
L. EXCESS	148	45	64	237	47
EXCESS	80	75	135	145	148
NORMAL	113	140	328	134	348
DEFICIENT	109	186	137	114	97
L. DEFICIENT	117	175	12	45	5
NO RAIN	93	36	0	1	0
NO DATA	23	26	7	7	38
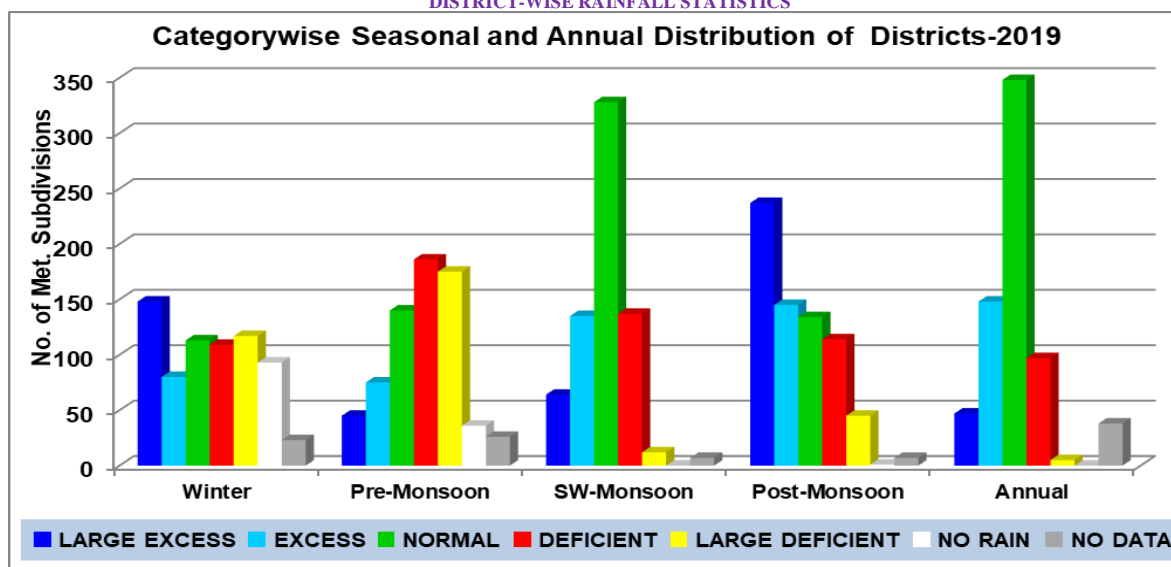
Figure 107: Categorywise Seasonal and Annual Distribution of No. of Districts – 2019

Distribution of districts of India in terms of their areas under different categories in the four seasons and for the year 2019 has been depicted in Figure 108.
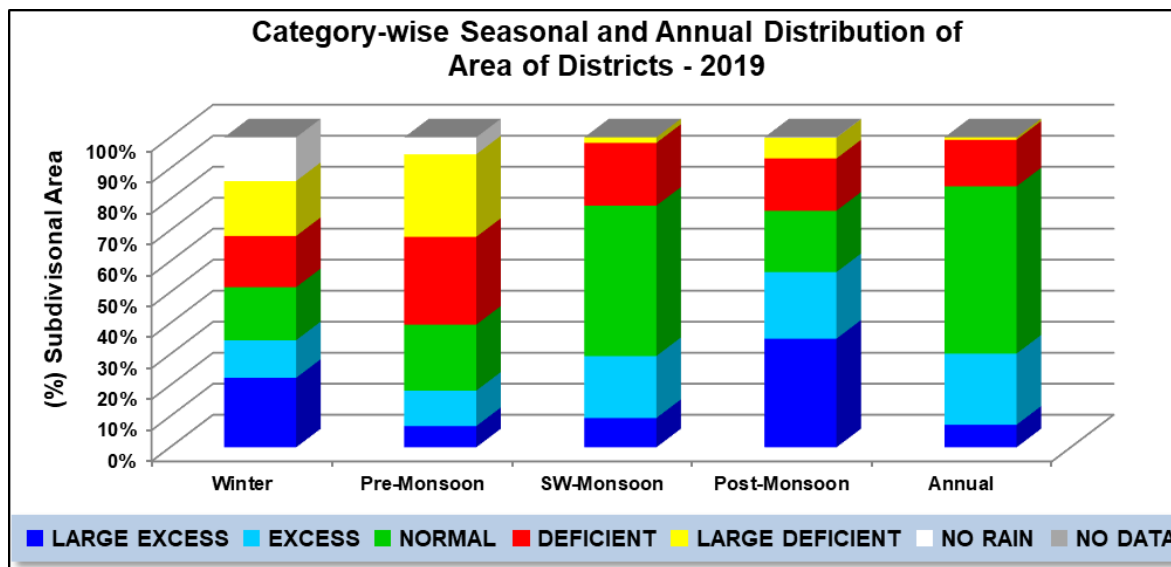
Figure 108: Category-wise distribution of Area of Districts – Seasonally and Annually – Year 2019

6.3   RAINFALL DEFICIENCY – SW Monsoon 2019

Area (%) of the districts of India during SW monsoon (June-September) under different categories of rainfall deficiency have been given below in tabular form in Table 25 and has been depicted in graphical form in Figure 108 as well. Rainfall data of about 2% area of districts was not available during the SW monsoon season.

Table 25: Area (%) of Districts of the country under Rainfall Deficiency - Monsoon 2019

Deficiency in Rainfall	Deficiency	% Areaof States of Country
25 % or less	No	86%
26 % or more but < 50 %	Moderate	11%
50 % or more	Severe	3%

It may be observed from Figures 12, 69 and 108 that more realistic distribution of area in different ranges of rainfall receieved is obtained when we consider smaller units of administrative boundaries like district than the met-subdivision or the state. In all, it may be seen that 3% area of 683 districts of the country exhibit severe deficiency in rainfall where as 86% area of districts of the country recorded no deficiency (from agricultural) during the South-West Monsoon season.
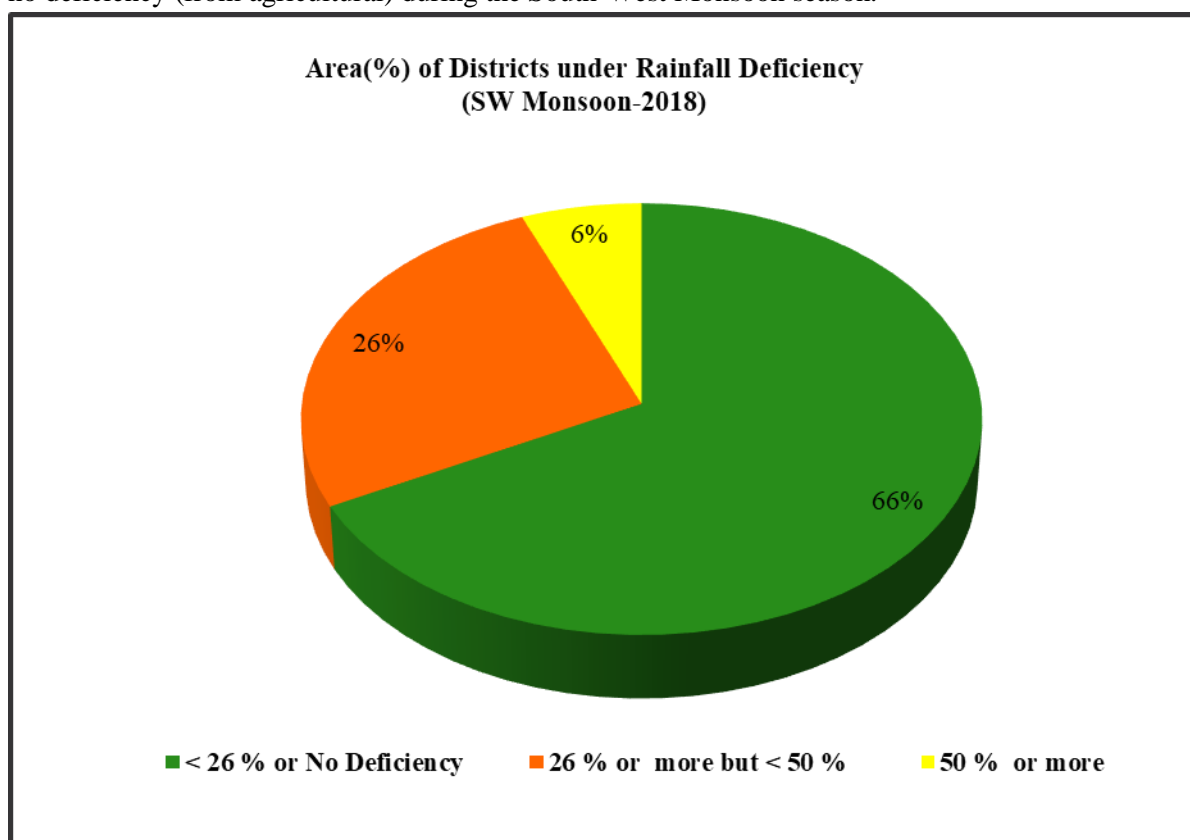
Figure 108: Area (%) of Districts under Rainfall Deficiency – SW Monsoon 2019

6.4   MONTHLY RAINFALL STATISTICS

The district-wise observed monthly rainfall is given in Table 27. Also, the percent departures of observed monthly rainfall from their normals have been given in Table 28. The rainfall statistics in respect of the districts whose data is not available through out the year have not been included in these tables.

Table 27: District-wise Monthly Rainfall (mm) – Year 2019

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDAMAN & NICOBAR ISLANDS												
NICOBAR	174.6	24.4	23.8	56.3	255.6	379.0	184.3	263.8	297.2	181.1	229.3	103.8
NORTH & MIDDLE ANDAMAN	168.0	0.0	0.0	24.9	218.0	904.1	303.7	1278.3	797.3	125.4	57.9	1.2
SOUTH ANDAMAN	179.7	0.6	28.0	33.7	229.9	573.3	129.0	772.9	563.2	121.5	152.5	0.9
ANDHRA PRADESH												
ANANTAPUR	10.6	1.0	0.0	13.2	47.6	52.3	30.1	70.1	229.9	179.6	12.7	14.7
CHITTOOR	9.6	2.3	0.0	12.1	30.0	56.7	86.8	144.9	228.4	226.6	41.7	100.0
CUDDAPAH	14.8	0.4	0.0	13.3	17.8	35.0	67.5	102.3	209.1	155.4	28.0	34.6
EAST GODAVARI	4.1	0.0	13.3	33.7	2.6	97.9	276.6	275.8	223.6	256.7	7.1	1.3
GUNTUR	25.7	0.4	0.6	6.8	17.8	82.4	157.9	182.6	253.5	202.7	6.4	2.1
KRISHNA	18.2	5.9	14.5	16.7	15.2	60.8	218.7	192.0	265.4	182.8	5.1	1.8
KURNOOL	17.1	0.2	0.4	5.4	36.3	71.7	76.9	132.5	254.5	119.6	5.4	4.0
NELLORE	7.9	3.3	0.0	24.2	12.5	21.3	106.9	88.0	148.4	335.7	104.9	150.2
PRAKASAM	15.0	0.4	2.2	27.1	19.4	51.7	124.8	94.4	132.9	217.1	11.4	29.4
SRIKAKULAM	0.0	1.6	5.7	8.6	135.1	73.0	176.2	249.2	319.2	359.5	1.1	7.2
VISHAKHAPATNAM	0.3	1.0	15.9	40.8	54.5	92.0	138.7	167.2	303.3	264.9	6.2	1.3
VIZIANAGARAM	0.0	0.5	16.9	26.6	43.0	88.1	175.5	233.4	309.6	342.0	0.1	0.8
WEST GODAVARI	13.4	0.5	2.2	5.3	4.4	54.2	231.4	269.6	253.0	165.0	4.1	0.0
ARUNACHAL PRADESH												
ANJAW		127.9	217.6	94.0	531.4	187.2	552.5	148.2	188.3	74.8	25.6	0.0
CHANGLANG	19.7	75.2	112.8	170.6	561.1	320.1	469.8	150.1	356.1	88.1	5.1	7.7
DIBANG VALLEY					330.0	171.0	908.9	80.4	140.5	89.3	17.0	
EAST KAMENG	0.0	0.0	6.4	45.4	145.4	247.2	293.8	64.8	266.2	62.8	0.0	0.0
EAST SIANG	18.4	125.6	99.1	186.7	423.5	577.0	1297.2	251.7	615.4	130.9	27.7	4.6
KURUNG KUMEY	17.5	108.7	192.8	175.2	487.0	191.4	540.9	203.6	556.5	114.5	77.3	38.2
LOHIT	10.6	117.5	150.3	103.7	489.6	334.6	681.1	329.4	335.5	106.8	3.8	0.3
LOWER DIBANG VALLEY	9.3	40.3	88.6	48.6	455.3	569.3	1589.5	349.8	288.4	146.6	2.3	8.4
LOWER SUBANSIRI				64.9	209.4	99.6	313.4	144.2	272.0	47.3	21.8	14.0
PAPUMPARA	10.6	79.6	38.6	146.7	542.8	495.7	784.5	226.9	495.5	231.2	26.6	12.5
TAWANG	5.0	53.0	139.0	46.0	144.4	63.4	360.7	177.5	229.7	69.3	5.0	0.0
TIRAP	16.4	34.4	28.0			207.6	448.4	289.2	298.6	147.6	2.4	0.4
UPPER SIANG	27.3	301.8	445.7	106.4	391.7	450.6	731.0	96.9	457.6	173.4	28.6	61.2
UPPER SUBANSIRI	0.0	37.0	127.8	142.2	232.4	164.9	401.0	91.7	373.1	91.9	10.8	20.5
WEST KAMENG	0.0	37.0	127.8	142.2	232.4	164.9	401.0	91.7	373.1	91.9	10.8	20.5
WEST SIANG	13.6	85.0	87.6	138.6	165.5	539.8	868.0	60.5	550.9	137.0	21.0	39.6
ASSAM												
BAKSA	0.6	31.3	25.9	315.8	575.7	645.4	773.4	166.5	239.3	44.6	7.1	0.1
BARPETA	0.0	35.4	40.3	189.2	647.6	469.1	1273.0	190.3	344.3	66.8	16.3	0.0
BONGAIGAON	0.0	17.4	5.6	60.4	476.2	457.3	1321.7	335.5	379.1	92.9	16.7	0.0
CACHAR	0.0	30.6	54.6	171.7	287.2	459.0	628.4	337.6	363.7	369.5	23.7	5.3
CHIRANG	0.6	73.0	45.2	158.4	429.0	538.6	1401.4	254.5	488.4	126.6	10.4	0.0
DARRANG	1.0	7.0	114.3	334.0	282.3	63.6	75.3	65.2	164.8	74.5	0.0	0.0
DHEMAJI	0.0				353.7	542.3	1171.9	186.4	415.2	252.5	5.8	0.0
DHUBRI	0.0	36.1	29.6	170.2	418.7	372.5	738.2	193.2	360.7	166.0	1.3	0.0
DIBRUGARH	15.0	56.4	71.5	151.4	479.4	293.3	555.3	169.8	302.4	118.5	5.9	3.8
GOALPARA	2.1	12.9	54.3	182.6	602.1	389.4	722.6	247.4	433.8	155.8	0.1	0.0
GOLAGHAT	12.0	31.6	59.0	190.7	284.5	140.8	282.7	155.4	343.1	155.3	11.2	1.1
HAILAKANDI	0.0	23.5	75.9	225.2	402.8	439.8	451.6	384.2	214.5	237.4	25.0	3.7
JORHAT	6.8	33.1	70.6	132.4	354.9	269.6	366.1	209.9	347.5	155.4	6.3	13.2
KAMRUP (RURAL)	0.1	6.2	55.2	272.2	483.6	184.5	319.9	228.9	210.1	100.4	0.2	0.0

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
KAMRUP METRO.	0.2	13.7	35.5	188.9	352.8	183.4	248.5	211.5	282.9	154.6	20.5	0.1
KARBI ANGLONG	0.0	6.8	27.4	187.4	140.4	118.5	131.8	122.7	114.8	160.9	6.7	0.0
KARIMGANJ	0.0	17.0	29.8	243.3	428.8	505.9	662.3	487.6	223.1	287.9	17.2	1.0
KOKRAJHAR	0.0	29.6	55.4	231.2	630.8	528.0	1611.1	301.5	609.7	106.3	1.0	2.1
LAKHIMPUR	7.1	49.4	66.8	119.9	414.7	502.3	875.2	134.5	556.3	227.5	12.9	13.7
MORIGAON	4.2	3.6	59.6	63.2	211.7	113.2	283.4	160.9	183.4	142.1	1.4	0.0
N. C. HILLS	0.0	8.4	34.8	91.0	341.5	268.3	302.0	106.6	191.5	179.5	39.7	0.0
NAGAON	2.4	22.6	44.0	81.6	152.1	161.4	178.8	188.4	121.2	128.4	11.9	1.6
NALBARI	0.2	18.2	44.1	331.9	543.9	626.6	740.4	168.4	257.7	94.6	2.4	0.0
SHONITPUR	1.0	25.8	34.6	173.4	374.8	331.4	445.9	139.9	255.0	97.1	9.5	10.3
SIBSAGAR	9.5	41.8	89.0	184.7	374.5	181.3	297.3	149.4	250.6	141.9	8.6	10.6
TINSUKIA	8.8	73.5	102.7	100.5	520.4	328.9	602.8	120.6	305.5	83.8	16.2	0.2
UDALGURI	0.0	49.2	33.0	207.6	395.0	347.2	657.5	289.6	357.4	60.2	3.6	11.2
BIHAR												
ARARIA	1.9	31.6	9.1	80.2	110.7	198.7	612.2	155.4	448.3	6.4	0.0	1.3
ARWAL	11.5	8.1	6.3	2.2	3.1	30.7	185.6	78.9	223.4	11.7	0.0	26.6
AURANGABAD	10.8	8.9	2.5	2.4	0.0	15.2	238.3	269.0	331.9	23.2	0.0	33.4
BANKA	0.0	43.0	0.6	12.3	101.5	56.7	272.8	117.5	376.3	118.9	0.0	2.5
BEGUSARAI	0.0	21.6	0.0	7.7	9.5	19.2	196.7	106.1	447.0	38.3	0.0	14.9
BHABUA	7.1	19.2	4.7	1.3	0.0	83.9	364.9	225.9	390.5	47.1	0.0	35.7
BHAGALPUR	6.9	43.6	0.8	31.2	70.5	71.1	397.6	102.4	502.2	50.8	0.0	10.7
BHOJPUR	2.1	19.7	4.4	10.8	65.6	32.6	358.2	84.7	388.2	7.2	0.0	16.5
BUXAR	4.6	10.8	5.0	0.4	6.8	68.6	465.7	155.3	394.6	19.4	0.0	25.0
DARBHANGA	1.8	21.3	0.4	63.7	17.8	96.0	416.4	126.9	337.5	6.2	0.0	15.6
EAST CHAMPARAN	5.7	22.4	0.6	22.5	20.2	95.3	665.4	54.1	340.6	18.2	0.0	14.0
GAYA	11.6	18.3	6.5	3.8	17.1	62.7	201.7	224.2	360.4	26.1	0.0	18.6
GOPALGANJ	7.1	14.3	3.3	7.8	1.8	145.8	611.1	126.7	483.9	8.3	0.0	12.8
JAHANABAD	8.0	8.7	3.8	10.6	38.0	45.6	206.1	191.5	392.1	39.3	0.0	35.8
JAMUI	1.2	39.2	0.0	3.7	19.4	48.8	324.2	129.9	309.7	68.9	0.0	6.7
KATIHAR	3.3	25.6	0.0	64.6	69.8	114.8	377.6	121.5	401.9	38.9	0.0	7.5
KHAGARIA	5.5	28.8	0.0	14.4	19.0	57.8	395.6	98.2	423.9	49.7	0.0	9.9
KISHANGANJ	0.0	28.6	4.7	173.3	134.1	250.7	915.1	187.1	385.3	28.4	0.0	0.3
LAKHISARAI	5.9	21.9	0.8	15.7	0.0	28.9	297.9	101.8	282.5	23.6	0.0	9.7
MADHEPURA	2.1	32.5	0.0	46.9	44.4	168.6	533.6	95.5	482.5	44.3	0.0	4.7
MADHUBANI	3.4	13.4	1.6	114.5	27.4	76.8	468.2	101.8	361.2	7.9	0.0	12.0
MONGHYR	7.0	26.8	2.2		12.0	24.8	401.0	109.8	312.6	37.8	0.0	2.4
MUZAFFARPUR	3.4	33.1	1.5	7.8	7.8	47.1	549.4	73.4	406.0	10.4	0.0	32.1
NALANDA	17.7	20.3	5.5	1.9	73.1	50.6	255.8	134.7	514.0	12.9	0.0	27.1
NAWADA	3.4	31.6	4.8	9.6	0.8	40.7	301.9	165.8	408.4	31.0	0.0	19.9
PATNA	0.9	7.5	3.4	6.1	4.9	42.5	278.7	107.9	431.2	2.8	0.0	21.0
PURNEA	0.1	40.0	0.0	64.8	73.3	251.5	352.2	193.6	528.3	38.3	0.0	3.6
ROHTAS	4.9	6.5	7.0	2.4	7.2	18.2	213.9	189.6	360.3	26.0	0.0	16.4
SAHARSA	5.8	7.7	1.3	20.2	29.0	93.0	403.3	155.2	376.7	7.2	0.0	7.2
SAMASTIPUR	1.1	33.1	4.3	10.7	21.9	63.8	406.4	228.0	606.4	15.4	0.0	34.3
SARAN	3.8	18.0	3.8	7.8	5.2	65.7	480.8	121.6	315.2	16.1	0.0	19.3
SHEIKHPURA	5.2	22.8	0.3	6.9	0.8	9.4	254.8	102.4	251.2	20.5	0.0	2.2
SHEOHAR	1.0	12.1	2.4	38.3	8.6	43.4	595.8	93.8	280.0	0.4	0.0	9.4
SITAMARHI	0.8	22.7	0.8	63.7	23.8	96.2	621.4	56.5	294.8	1.7	0.0	11.2
SIWAN	7.9	13.3	2.0	1.8	12.7	63.2	714.2	82.4	413.5	16.4	0.0	26.5
SUPAUL	4.0	15.6	3.7	89.6	45.4	181.7	501.7	114.6	491.2	4.9	0.0	4.1
VAISHALI	0.0	20.0	2.1	8.9	1.4	44.3	330.2	132.0	471.7	8.8	0.0	20.3
WEST CHAMPARAN	15.3	77.5	8.0	95.4	69.9	377.3	641.9	154.0	260.9	11.0	0.0	27.3
CHANDIGARH (UT)												
CHANDIGARH (UT)	20.0	56.8	24.4	35.2	20.4	24.8	321.4	230.2	140.1	0.3	35.8	29.4
CHHATTISGARH												
BALOD	19.7	7.7	13.1	22.9	16.3	118.3	237.1	183.5	505.2	94.6	0.0	0.4
BALODA BAZAR	23.5	22.5	16.0	12.0	0.0	79.3	226.2	317.1	331.1	49.3	0.0	0.6
BALRAMPUR	6.6	31.0	13.6	10.7	4.2	135.0	273.8	406.4	194.8	86.0	0.0	12.8
BASTAR	26.9	0.0	0.0	8.4	76.7	198.8	608.7	570.2	424.4	191.8	0.1	0.4
BEMETARA	22.4	10.5	24.1	0.4	4.1	90.1	192.9	364.4	295.4	31.0	0.0	4.5
BIJAPUR	54.6	0.0	0.0	15.2	9.6	92.0	872.3	903.0	361.9	152.4	1.6	0.9

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BILASPUR	24.1	15.2	33.9	6.1	7.6	96.1	315.5	373.1	335.7	37.3	0.0	10.6
DANTEWADA	6.4	1.2	0.0	6.9	23.2	124.4	645.0	533.6	366.9	87.1	0.8	0.0
DHAMTARI	2.0	6.4	18.7	14.5	16.6	277.7	266.7	247.7	330.2	106.4	0.0	0.0
DURG	6.6	2.3	5.5	0.0	0.0	152.6	154.4	250.4	321.1	76.7	0.0	1.7
GARIABAND	4.4	5.9	9.3	3.0	16.6	224.1	315.2	327.1	329.1	88.6	0.0	0.4
JANJGIR	18.6	16.7	14.4	2.0	12.2	90.5	265.4	288.0	395.7	66.7	0.0	2.4
JASHPUR	3.8	22.8	15.1	34.3	6.8	123.1	257.4	356.1	392.6	163.6	0.0	8.0
KABIRDHAM	22.6	15.5	39.4	1.8	2.8	97.6	233.7	349.6	182.6	27.1	1.3	0.5
KANKER	4.3	7.6	0.0	1.3	6.4	103.9	455.8	408.9	372.8	149.8	0.0	0.0
KONDAGAON	5.3	6.6	0.0	6.4	31.5	282.7	587.5	375.3	369.0	147.8	12.5	0.0
KORBA	0.0	18.9	14.7	7.0	9.4	114.7	238.8	424.1	469.0	121.7	0.0	5.1
KORIYA	12.8	14.1	16.5	0.0	0.9	90.5	306.0	412.9	258.1	31.9	0.0	13.4
MAHASAMUND	16.5	7.8	11.7	0.0	0.0	150.0	338.6	361.0	322.1	75.3	0.0	0.0
MUNGELI	17.8	12.9	32.6	4.1	2.7	85.0	223.8	228.9	239.3	34.1	0.0	4.0
NARAYANPUR	7.0	0.0	0.0	6.6	26.3	209.7	576.8	544.6	458.6	235.4	1.1	0.0
RAIGARH	7.5	16.8	10.4	7.6	11.9	110.2	275.7	412.5	464.7	86.8	0.0	1.1
RAIPUR	35.2	9.2	4.8	3.7	1.1	101.6	213.7	264.0	424.3	62.7	0.0	0.5
RAJNANDGAON	19.9	6.2	15.1	4.0	0.0	57.6	277.0	258.2	311.4	39.7	2.4	0.8
SUKMA	0.0	0.0	9.4	16.9	15.7	165.8	600.9	582.7	352.2	119.7	0.9	0.0
SURAJPUR	23.7	13.6	20.8	13.3	9.4	79.4	394.0	525.4	216.2	82.8	0.0	62.8
SURGUJA	17.1	16.4	3.1	1.1	1.5	75.9	207.7	287.0	259.9	98.0	0.0	6.0
DADARA & NAGAR HAVELI												
DADARA & NAGAR HAVELI	0.0	0.0	0.0	0.0	0.0	364.7	1513.2	941.3	803.7	106.1	44.8	0.0
DAMAN & DIU												
DAMAN	9.5	41.8	89.0	184.7	374.5	181.3	297.3	149.4	250.6	141.9	8.6	10.6
DIU	8.8	73.5	102.7	100.5	520.4	328.9	602.8	120.6	305.5	83.8	16.2	0.2
DELHI												
CENTRAL DELHI	11.0	7.8	0.0	0.0	3.0	1.0				39.0	7.0	39.0
EAST DELHI	52.2	20.5	1.4	2.2	9.4	0.2	90.4	214.6	18.6	13.2	0.0	17.5
NEW DELHI	50.4	24.4	7.7	8.7	29.0	9.8	139.2	101.6	49.7	37.9	1.0	24.8
NORTH DELHI	41.3	53.2	5.2	8.6	29.8	26.5	158.1	214.2	129.4	37.7	6.6	28.3
NORTH EAST DELHI	63.7	17.7	1.4	12.0	15.8	3.8	92.5	166.9	88.5	3.7	12.8	26.3
NORTH WEST DELHI	22.0	15.0	1.0	2.5	3.0	7.0				5.5	1.5	2.0
SOUTH DELHI	49.4	20.1	16.8	4.6	11.6	7.3	251.0	136.9	59.1	19.2	3.6	22.1
SOUTH WEST DELHI	35.7	35.4	5.1	13.7	24.1	3.3	143.8	138.8	48.3	16.2	7.6	42.7
WEST DELHI	23.0	9.5	0.0	16.0	10.0	10.0				3.0		
GOA												
NORTH GOA	0.0	0.0	0.0	1.6	1.3	738.9	1385.0	1239.7	764.3	533.0	22.5	0.0
SOUTH GOA	0.0	0.0	0.0	1.7	2.1	819.6	1230.0	1058.3	624.0	560.6	19.2	0.2
GUJARAT REGION												
AHMEDABAD	0.0	0.0	0.0	0.7	0.0	72.6	83.1	353.5	216.6	47.9	3.9	0.0
AMRELI	0.0	0.0	0.0	0.0	0.1	115.5	126.2	246.4	315.1	67.2	16.0	0.0
ANAND	0.0	0.0	0.0	0.0	0.0	66.9	169.6	541.1	226.7	83.3	5.0	0.0
ARAVALLI	0.0	3.7	0.0	0.7	0.0	76.3	192.0	447.2	282.7	96.0	0.8	0.0
BANASKANTHA	0.0	0.5	0.0	3.5	0.1	73.5	116.2	229.7	180.4	83.2	21.1	4.6
BHARUCH	0.0	0.0	0.0	0.0	0.0	150.8	320.5	506.3	260.9	49.5	15.5	0.0
BHAVNAGAR	0.0	0.0	0.0	0.0	0.0	110.5	163.6	262.8	223.2	40.2	12.9	0.0
BOTAD	0.0	0.0	0.0	0.0	0.0	89.0	162.5	379.3	290.3	38.3	21.5	0.0
CHHOTA UDEPUR	0.0	0.0	0.0	0.0	0.0	125.0	301.0	993.8	339.4	56.6	15.3	0.0
DAHOD	0.0	0.0	0.0	0.0	0.0	65.0	155.9	350.3	277.4	44.4	3.0	0.0
DANGS	0.0	0.0	0.0	0.0	0.0	198.0	994.7	1158.3	688.3	112.0	31.0	0.0
DEVBHOOMI DWARKA	2.2	0.0	0.0	0.0	0.0	37.9	127.7	229.6	590.7	5.3	16.2	0.8
GANDHINAGAR	0.0	0.0	0.0	0.0	0.0	123.3	48.6	411.8	264.0	56.3	2.7	0.0
GIR SOMNATH	0.0	0.1	0.0	0.0	0.0	260.0	158.5	233.8	463.1	20.1	23.4	3.9
JAMNAGAR	0.0	0.0	0.0	0.0	0.0	69.7	184.8	318.0	540.3	22.3	22.5	1.8
JUNAGADH	0.0	0.0	0.0	0.0	0.0	175.7	185.5	339.8	639.9	46.9	16.0	0.5
KHEDA	0.0	0.0	0.0	0.0	0.0	73.4	148.5	536.3	255.0	65.1	6.9	0.0
KUTCH	2.0	0.7	0.0	0.1	0.2	13.8	105.5	326.4	235.9	24.4	27.5	2.8
MAHISAGAR	0.0	0.0	0.0	0.0	0.0	80.0	144.4	364.1	292.8	43.1	0.6	0.0
MEHSANA	0.0	0.9	0.0	3.5	0.2	83.7	53.6	378.7	221.5	96.9	9.0	2.3
MORBI	0.0	0.0	0.0	4.1	0.0	39.2	119.2	374.8	311.4	105.2	23.6	0.0

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NARMADA	0.0	0.0	0.0	0.0	0.0	128.8	378.1	755.6	338.3	53.3	27.2	0.0
NAVSARI	0.0	0.0	0.0	0.0	0.0	306.3	692.0	692.8	672.7	86.0	46.3	0.0
PANCHMAHAL	0.0	0.0	0.0	0.0	0.0	115.7	215.6	678.7	208.6	29.0	9.3	0.0
PATAN	0.0	1.4	0.0	0.3	0.1	64.3	73.6	328.0	197.3	89.0	2.3	4.8
PORBANDAR	0.0	0.0	0.0	0.0	0.0	100.0	98.2	184.3	584.8	16.7	1.6	14.9
RAJKOT	0.0	0.0	0.0	0.1	0.0	69.8	159.3	282.3	431.4	33.8	10.9	0.0
SABARKANTHA	0.0	0.5	0.0	4.4	3.1	143.1	84.9	483.9	223.5	113.0	7.3	0.0
SURAT	0.0	0.0	0.0	0.0	0.0	185.6	481.0	721.8	469.8	46.1	28.9	0.2
SURENDRANAGAR	0.0	0.0	0.0	0.7	0.0	47.2	127.7	338.5	322.1	85.9	39.3	0.0
TAPI	0.0	0.0	0.0	0.0	0.0	107.8	558.4	738.8	354.4	46.6	19.2	0.0
VADODARA	0.0	0.0	0.0	0.0	0.0	88.6	172.6	599.2	210.1	55.1	8.9	2.6
VALSAD	0.0	0.0	0.0	0.0	0.0	278.8	1195.5	835.9	778.8	62.4	59.3	0.0
HARYANA												
AMBALA	20.6	56.0	16.8	44.2	11.9	22.6	267.6	261.1	76.9	0.0	23.8	16.9
BHIWANI	6.0	9.2	6.8	5.2	23.9	26.9	98.5	54.1	3.0	8.1	13.1	8.3
FARIDABAD	33.7	18.4	10.6	8.3	18.5	5.7	149.0	124.9	60.3	10.8	0.0	2.7
FATEHABAD	4.3	4.7	6.1	0.7	6.7	14.3	53.7	27.7	7.0	0.0	24.0	6.0
GURGAON	17.5	11.9	7.1	7.7	20.4	4.6	148.2	97.3	34.6	8.8	1.0	19.8
HISAR	11.1	2.5	4.5	3.1	42.6	42.1	83.5	32.5	1.8	2.9	12.9	1.2
JHAJJAR	6.3	13.1	2.4	7.2	9.5	8.1	97.4	40.8	16.0	8.6	5.2	11.4
JIND	10.3	22.3	4.5	5.8	11.0	22.2	92.2	71.8	11.0	3.0	11.5	6.8
KAITHAL	31.3	58.0	14.7	17.3	15.7	14.3	88.0	43.0	27.0	2.0	25.7	3.3
KARNAL	25.2	20.5	8.9	6.8	23.3	14.2	264.2	126.3	13.6	0.3	19.5	17.1
KURUKSHETRA	17.8	36.7	13.3	14.0	27.5	30.8	252.3	62.5	38.0	0.0	19.3	11.3
MAHENDRAGARH	6.2	1.3	4.8	14.1	3.0	26.1	102.8	63.5	15.3	12.0	2.1	11.0
MEWAT	30.0	6.3	5.0	14.8	3.6	4.0	124.8	129.6	15.3	4.0	0.0	6.8
PALWAL	10.0	5.0	10.5	9.9	4.0	1.7	102.1	93.8	53.3	0.0	0.0	13.5
PANCHKULA	12.0	27.0	9.0	20.8	6.8	9.8	108.0	177.5	102.6	2.8	17.6	12.0
PANIPAT	16.3	15.0	3.8	0.8	8.9	6.8	87.3	78.3	12.0	2.3	24.1	7.8
REWARI	6.2	9.2	5.2	13.6	2.6	14.4	152.4	117.9	33.9	7.8	3.0	16.4
ROHTAK	7.0	9.2	5.0	1.7	35.8	7.8	88.0	42.5	3.3	18.0	2.3	12.7
SIRSA	11.2	6.4	8.4	27.0	15.0	27.5	113.0	39.4	3.0	0.1	20.9	10.2
SONEPAT	9.8	19.3	5.2	2.8	25.3	22.8	144.3	54.8	6.5	3.8	28.2	15.5
YAMUNA NAGAR	29.2	53.3	16.4	30.9	12.6	10.7	331.0	303.2	55.5	17.1	8.7	18.8
HIMACHAL PRADESH												
BILASPUR	50.2	176.2	32.1	31.3	23.0	63.6	341.9	566.7	140.9	42.7	28.5	45.3
CHAMBA	103.6	228.2	82.8	44.2	63.8	58.0	159.2	291.7	62.9	31.8	91.4	70.7
HAMIRPUR	62.6	231.9	29.4	26.0	22.9	41.7	455.0	511.8	146.0	37.1	26.6	53.5
KANGRA	92.8	219.8	38.4	45.3	39.6	37.5	447.2	575.9	253.6	24.9	44.9	95.0
KINNAUR	82.1	154.6	102.2	9.4	69.4	38.2	19.0	53.7	9.5	11.5	74.0	28.5
KULLU	133.7	255.8	145.1	62.5	65.5	68.7	161.7	276.9	57.9	22.0	105.6	86.5
LAHAUL & SPITI	96.4	200.1	47.2	16.2	23.8	47.5	9.5	95.0	4.0	0.0	37.6	30.8
MANDI	78.1	196.4	61.1	36.4	33.6	82.5	300.6	430.0	127.4	22.1	28.8	37.7
SHIMLA	69.5	150.6	56.2	40.9	64.6	76.7	237.6	283.1	83.4	24.1	37.5	36.5
SIRMAUR	68.8	138.4	29.6	54.6	27.6	55.3	391.5	447.0	242.3	37.5	24.1	49.2
SOLAN	68.0	129.5	44.8	25.1	45.3	81.3	302.5	340.7	118.3	5.9	31.3	33.1
UNA	74.8	184.0	34.2	27.4	21.9	29.2	281.9	462.5	119.9	29.0	14.9	49.5
JAMMU & KASHMIR												
ANANTNAG	109.0	188.3	81.3	53.0	76.6	108.1	66.9	45.9	7.4	50.4	184.3	80.4
BADGAM	75.1	110.0	63.4	46.6	50.2	75.2	38.0	44.1	1.8	18.5	215.3	14.5
BANDIPORE	120.0	105.0	66.0	64.2	138.0	92.0	44.5	52.5	11.5	23.5	116.0	20.0
BARAMULA	182.6	249.0	131.7	92.1	135.2	181.5	76.8	104.1	20.5	37.7	208.7	29.0
DODA	200.8	338.2	109.2	54.2	98.8	97.8	142.7	109.2	2.0	29.5	136.2	73.4
GANDERBAL	113.1	121.4	102.6	54.8	123.3	92.1	67.5	48.3	0.0	55.8	121.4	67.0
JAMMU	83.4	169.6	50.1	35.8	13.3	6.6	175.9	149.4	75.1	13.9	70.6	31.1
KARGIL	19.8	119.2	5.0	0.0	0.2	12.6	5.6	0.0	2.9	2.0	24.8	
KATHUA	76.2	217.9	17.5	33.3	22.5	12.0	340.9	398.0	76.3	4.4	62.8	75.5
KISTWAR												
KULGAM	185.2	205.1	93.6	69.8	99.0	126.5	151.0	103.9	1.9	18.4	253.1	138.9
KUPWARA	231.3	189.0	134.8	112.5	117.4	99.7	80.9	38.6	4.4	46.3	295.3	37.4
LADAKH (LEH)	5.5	38.2	0.7	0.1	0.8	3.9	9.5	4.8	1.9	0.0	0.0	0.0

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
POONCH					51.0	132.0	189.0	185.0	3.0	3.0	20.5	15.0
PULWAMA	56.2	107.1	47.6	24.8	28.5	36.0	37.9	56.8	0.2	7.1	120.2	27.7
RAJOURI	85.6	175.6	97.6	37.8	40.1	53.6	179.4	115.3	61.6	14.2	153.6	48.1
RAMBAN	238.2	364.9	104.5	64.0	109.6	127.7	142.0	96.7	5.8	33.8	252.7	150.9
REASI	114.6	214.8	60.6	63.5	76.6	57.8	611.3	785.3	262.6	40.2	132.0	155.9
SAMBA	55.3	128.5	23.3	22.8	3.7	3.1	197.8	310.7	129.5	56.0	45.5	91.6
SHOPIAN								48.0	0.0	0.0	212.0	25.0
SRINAGAR	105.5	138.5	77.8	40.9	74.2	77.1	71.5	65.2	0.8	31.3	231.5	17.3
UDHAMPUR	158.5	248.9	52.1	49.0	62.5	35.9	676.8	262.5	117.4	53.6	135.9	106.0
JHARKHAND												
BOKARO	0.1	29.2	16.9	21.7	53.2	85.9	202.5	243.0	310.7	163.2	0.0	14.3
CHATRA	0.8	32.9	6.4	11.2	0.7	28.9	222.9	187.4	242.8	28.5	0.0	36.9
DEOGHAR	0.0	27.8	0.0	65.3	61.7	87.1	264.4	117.3	289.5	145.6	0.0	0.0
DHANBAD	0.0	24.8	7.1	40.5	58.6	108.5	268.5	251.2	311.1	164.2	0.0	5.6
DUMKA	0.0	28.3	8.2	50.5	128.0	101.4	335.2	249.3	314.1	95.1	0.0	0.0
EAST SINGBHUM	0.0	63.7	48.9	106.9	130.7	134.3	297.4	299.9	417.1	246.2	0.0	13.8
GARHWA	2.4	6.4	12.4	6.0	0.0	42.8	161.6	159.4	86.2	29.0	0.0	17.0
GIRIDIH	0.0	11.3	3.2	35.2	53.9	96.0	234.6	189.0	296.4	163.3	0.0	7.8
GODDA	0.0	0.0	0.0	32.4	87.3	23.3	179.0	63.9	290.2	91.5	0.0	3.9
GUMLA	1.4	13.2	26.6	53.5	24.0	99.3	218.1	325.9	281.3	136.2	0.0	18.1
HAZARIBAG	3.9	18.1	12.3	8.2	5.9	75.9	245.5	209.3	331.0	140.2	0.0	5.3
JAMTARA	0.0	14.9	1.0	19.7	108.2	85.5	368.9	270.9	279.4	216.5	0.0	2.2
KHUNTI	2.0	5.8	48.0	62.3	27.3	58.3	185.4	282.1	201.0	80.5	0.0	5.0
KODERMA	0.0	35.9	0.7	9.9	0.0	43.0	307.7	193.3	356.9	71.7	0.0	16.3
LATEHAR	0.0	36.4	13.4	16.8	0.0	90.0	225.2	201.6	116.7	59.1	0.0	2.0
LOHARDAGA	0.0	20.8	24.8	47.8	8.1	148.9	287.0	276.7	158.7	80.1	0.0	28.6
PAKUR	0.0	25.7	0.6	49.0	81.8	32.3	286.9	138.6	291.5	142.8	0.0	0.0
PALAMU	3.6	9.9	8.5	8.9	1.2	77.0	263.4	311.4	219.3	30.2	0.0	13.1
RAMGARH	3.6	27.5	25.2	19.0	56.5	73.4	219.1	285.3	390.7	198.5	0.2	13.8
RANCHI	0.6	29.3	42.6	24.8	16.1	106.7	184.1	252.0	212.7	149.8	0.3	25.1
SAHIBGANJ	0.0	19.7	0.0	57.2	281.0	290.0	503.2	237.6	862.8	112.0	0.0	13.0
SERAIKELA-KHARSAWAN	0.0	5.6	55.9	34.3	53.9	126.0	160.4	260.6	227.7	157.9	0.0	16.1
SIMDEGA	0.8	28.8	20.4	65.7	18.5	155.0	271.7	505.5	331.2	177.4	0.0	6.9
WEST SINGBHUM	0.0	42.8	20.1	113.3	80.5	64.7	247.4	367.9	188.8	180.8	0.0	19.2
KARNATAKA												
BAGALKOTE	0.0	0.0	0.9	20.0	33.9	119.7	82.3	82.1	156.7	252.3	37.3	3.6
BALLARI	0.0	1.9	1.4	16.8	25.2	54.9	65.7	80.2	235.5	223.0	10.7	6.4
BELAGAVI	0.4	0.0	15.4	14.4	9.1	139.3	284.2	506.9	152.6	322.9	19.3	3.8
BENGALURU RURAL	4.4	0.6	0.0	55.6	170.5	66.2	52.0	150.3	164.5	242.9	12.3	6.5
BENGALURU URBAN	0.6	31.8	0.0	27.4	142.4	62.7	59.6	143.5	187.7	254.1	35.4	11.0
BIDAR	4.2	0.0	0.0	10.2	5.0	123.4	105.7	230.3	190.1	168.9	47.4	0.2
CHAMARAJANAGAR	0.3	6.8	0.0	20.7	131.4	47.0	30.4	164.0	141.8	186.3	50.4	12.9
CHIKABALLAPURA	4.3	4.1	0.0	39.8	92.0	131.2	52.6	69.4	133.0	189.8	21.9	10.2
CHIKKAMAGALURU	0.0	8.6	9.1	38.3	49.7	199.5	506.4	988.7	387.1	404.9	21.5	38.3
CHITRADURGA	1.6	4.7	0.0	14.8	48.3	56.2	50.2	113.5	151.3	247.1	23.0	22.8
DAKSHINA KANNADA	0.0	1.1	0.3	32.8	44.4	481.8	952.6	1399.2	680.2	500.1	84.7	34.6
DAVANGERE	0.0	2.0	1.8	26.5	54.6	47.8	102.1	221.6	111.0	312.8	31.9	7.6
DHARWAD	0.0	0.0	12.9	66.0	25.7	97.4	179.5	360.9	106.8	269.0	27.1	4.5
GADAG	0.0	0.0	3.2	15.7	27.1	94.2	99.9	149.6	99.1	240.9	34.7	4.1
HASSAN	0.0	8.0	2.7	41.9	113.5	91.6	126.6	435.7	178.4	263.3	20.9	25.2
HAVERI	0.0	0.0	7.9	21.2	17.4	69.9	188.9	404.7	105.9	425.2	16.2	0.4
KALABURGI	0.0	0.0	5.2	8.2	15.5	123.9	91.5	173.3	204.2	161.1	9.8	2.2
KODAGU	0.0	1.7	8.0	68.6	63.6	287.9	568.5	1292.5	494.1	312.8	53.3	34.7
KOLAR	6.7	46.2	0.0	75.5	96.6	68.9	36.1	82.7	127.0	165.9	19.9	18.0
KOPPAL	2.6	0.3	0.0	29.8	17.9	96.0	63.8	79.9	183.8	240.8	8.2	2.3
MANDYA	0.0	2.0	0.1	34.1	133.8	62.3	50.0	157.5	148.5	277.5	69.9	6.5
MYSURU	0.0	11.9	2.3	53.2	150.8	62.4	87.4	342.6	120.9	180.2	56.3	18.0
RAICHUR	2.0	0.0	0.0	12.1	19.2	78.2	82.1	54.5	226.9	92.7	4.8	1.3
RAMANAGARA	1.0	5.9	0.0	44.6	103.4	99.5	42.6	153.5	141.3	245.8	33.1	5.5
SHIVAMOGGA	0.0	0.4	4.2	20.7	5.0	185.6	580.1	1005.3	354.7	347.7	26.8	10.4
TUMAKURU	2.2	7.7	0.0	18.2	77.6	97.9	41.5	98.1	190.6	223.9	25.3	18.6

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
UDUPI	0.0	0.0	2.0	8.6	3.8	720.0	1514.8	1499.7	808.1	623.4	51.1	13.7
UTTARA KANNADA	0.0	0.0	5.6	22.7	12.1	574.5	1200.2	1321.4	556.6	492.4	33.6	1.1
VIJAYAPURA	0.0	0.0	0.6	22.6	22.6	105.4	67.0	53.7	147.7	166.4	32.4	2.2
YADGIR	0.0	0.0	0.0	15.7	21.9	82.5	138.2	70.7	181.1	67.4	11.2	0.9
KERALA												
ALAPUZHA	0.0	3.0	9.4	59.7	39.1	388.5	397.6	676.1	334.7	469.3	179.7	72.1
CANNUR	0.0	0.0	0.8	31.9	40.2	516.9	1020.1	1107.2	489.9	416.7	127.6	65.8
ERNAKULAM	0.0	7.2	4.6	117.6	64.8	382.1	558.8	956.6	478.5	597.1	162.4	51.1
IDUKKI	3.0	22.9	16.7	104.4	55.9	335.7	533.1	979.4	480.0	375.1	106.1	33.2
KASARGOD	0.0	0.0	0.0	21.4	42.7	493.0	1237.1	1195.3	494.9	518.3	48.4	64.0
KOLLAM	0.0	17.8	65.4	74.2	72.8	244.5	270.6	546.7	359.0	459.5	126.8	23.0
KOTTAYAM	3.0	13.9	9.1	71.7	68.2	396.2	545.6	750.9	431.3	591.8	153.2	32.1
KOZHIKODE	0.0	0.0	1.9	43.4	42.9	634.2	959.0	1407.8	468.8	568.5	100.3	28.3
MALAPPURAM	0.0	0.4	2.8	71.3	52.1	337.8	580.8	1084.2	368.3	553.8	96.6	22.5
PALAKKAD	0.0	3.8	1.5	95.2	47.6	253.7	441.6	1030.6	402.0	377.9	105.1	9.2
PATHANAMTHITTA	0.0	75.3	72.3	262.5	108.0	271.4	357.7	717.7	370.0	547.9	165.2	36.3
THIRUVANANTHAPURAM	0.0	11.9	0.2	71.6	100.2	263.6	148.7	325.4	302.8	345.2	135.6	52.8
THRISSUR	2.1	1.5	3.7	96.8	53.9	374.6	560.3	1062.0	502.3	518.1	117.1	19.8
WYNAD	0.0	14.5	12.7	156.1	100.5	249.3	527.6	1190.8	409.6	343.3	74.2	45.9
LAKSHADWEEP												
LAKSHADWEEP	0.0	28.1	4.1	22.4	11.4	242.5	489.4	338.4	156.7	503.4	40.0	306.7
EAST MADHYA PRADESH												
AGAR-MALWA	0.0	0.0	0.0	12.0	0.0	69.6	314.4	688.4	782.6	60.2	2.0	0.0
ALIRAJPUR	0.0	0.0	0.0	2.9	0.0	84.0	338.1	686.4	286.0	83.4	40.1	0.0
ANUPPUR	27.5	16.5	42.6	8.6	8.9	123.0	324.6	447.2	447.6	20.1	0.0	9.2
ASHOKNAGAR	0.0	15.8	0.8	10.0	0.0	38.5	345.8	566.0	416.3	58.8	4.3	0.5
BALAGHAT	28.6	18.0	17.9	0.4	0.0	35.1	353.6	447.1	448.4	20.4	1.5	7.3
BARWANI	0.0	0.0	0.0	0.1	0.1	60.9	309.1	458.1	310.1	57.0	5.3	0.0
BETUL	0.0	0.5	0.3	9.9	0.0	90.1	372.9	487.2	300.7	115.6	3.3	8.3
BHIND	0.0	31.8	0.0	1.5	5.9	66.3	263.0	210.7	194.3	12.2	7.6	0.0
BHOPAL	0.0	0.4	0.0	14.2	1.0	101.1	641.9	493.2	520.3	132.6	0.6	21.6
BURHANPUR	0.0	0.0	0.0	1.8	1.5	109.3	347.7	441.9	307.4	85.6	40.2	1.4
CHHATARPUR	2.6	9.5	1.3	11.6	3.4	47.5	264.7	476.0	416.9	38.8	0.0	23.5
CHHINDWARA	23.5	6.0	14.3	10.7	0.0	63.6	219.1	454.5	538.2	61.2	1.7	22.0
DAMOH	1.5	2.5	1.0	4.0	0.5	56.5	453.0	543.0	436.5	21.5	0.0	13.5
DATIA	0.7	29.0	0.0	7.7	7.2	52.7	301.3	155.4	210.6	15.1	0.0	7.7
DEWAS	0.0	0.0	0.0	1.2	0.0	69.0	393.8	417.8	584.5	38.5	1.2	0.0
DHAR	0.0	0.3	0.0	5.7	0.0	105.4	302.5	461.3	348.0	63.6	4.3	0.1
DINDORI	7.0	10.2	19.6	5.2	0.0	119.6	453.8	416.2	463.8	85.0	0.0	29.7
GUNA	1.0	6.1	0.3	16.1	0.4	32.0	324.5	730.0	470.8	30.9	3.5	1.0
GWALIOR	2.2	32.6	1.3	9.7	14.2	61.8	249.1	210.7	301.5	9.6	0.4	2.1
HARDA	0.0	10.5	13.2	0.5	0.0	42.4	446.3	410.3	692.6	67.8	26.7	7.4
HOSHANGABAD	3.5	3.9	30.3	12.3	3.3	52.7	505.8	771.5	604.1	67.4	2.9	18.2
INDORE	0.0	2.5	0.0	0.5	0.4	120.7	387.8	400.3	525.8	50.4	13.1	0.0
JABALPUR	3.1	9.4	3.1	17.1	0.3	64.5	393.5	734.3	394.8	24.7	0.0	14.7
JHABUA	0.0	1.8	0.0	2.4	0.0	143.1	302.9	598.7	379.9	103.1	15.9	1.3
KATNI	12.0	13.0	28.6	13.2	0.0	102.8	278.0	313.6	588.6	13.6	0.0	52.8
KHANDWA	0.0	0.0	0.0	0.0	0.0	100.6	436.7	378.0	396.0	70.5	15.0	5.3
KHARGONE	0.0	0.0	0.0	0.0	0.0	48.8	293.9	393.8	280.0	46.2	1.0	0.0
MANDLA	18.7	10.3	25.6	5.6	0.0	83.4	493.6	559.8	610.5	53.2	0.0	13.8
MANDSAUR	0.0	1.2	0.0	41.3	0.0	84.2	455.3	891.0	588.1	75.1	8.4	0.0
MORENA	25.0	17.4	0.6	16.5	7.7	79.8	235.2	227.3	188.8	18.7	10.6	9.7
NARSINGHPUR	0.0	0.2	0.6	8.0	0.0	82.6	442.0	581.0	613.8	1.8	3.2	9.4
NEEMUCH	0.0	3.0	0.3	19.3	0.0	116.9	379.5	674.6	540.7	47.3	21.0	1.7
PANNA	2.2	2.1	0.0	0.0	0.0	30.7	277.4	439.0	368.5	57.0	0.0	24.6
RAISEN	0.0	6.2	0.0	6.8	2.1	71.6	475.9	667.3	648.4	29.0	12.0	20.0
RAJGARH	0.0	0.0	0.0	8.4	0.0	80.2	349.8	638.9	562.1	65.2	18.2	2.3
RATLAM	0.0	0.0	0.0	15.5	1.3	179.3	453.2	480.1	450.8	79.3	0.3	1.0
REWA	25.2	12.6	23.2	10.3	1.6	29.3	355.7	426.4	387.8	55.4	0.0	15.6
SAGAR	0.0	0.7	0.0	15.3	1.7	70.4	334.0	612.8	502.6	6.1	2.6	10.8
SATNA	11.3	22.6	11.8	6.2	11.7	51.1	301.1	350.3	200.4	8.5	0.0	15.6

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SEHORE	0.0	3.2	3.2	0.0	6.8	92.8	564.5	493.7	623.4	46.6	0.6	8.0
SEONI	19.7	2.5	15.7	3.6	1.1	72.2	333.5	422.6	646.5	71.5	0.0	19.4
SHAHDOL	7.0	8.0	18.0	20.0	0.0	38.0	243.0	347.0	241.0	26.0	0.0	29.0
SHAJAPUR	0.0	0.0	0.0	6.0	0.0	71.5	520.2	527.0	594.2	76.6	11.5	0.0
SHEOPUR	3.5	10.1	0.0	22.5	0.0	76.7	355.0	294.2	123.4	19.5	0.0	5.5
SHIVPURI	1.3	11.5	0.3	21.0	2.1	50.1	319.3	271.6	254.0	36.6	6.5	1.3
SIDHI	17.4	4.8	22.6	3.6	0.0	9.4	201.6	328.0	377.0	35.4	0.0	61.0
SINGRAULI	13.4	13.0	37.1	21.8	7.4	68.8	334.5	407.7	400.3	33.8	0.0	57.2
TIKAMGARH	0.0	4.5	0.0	2.5	12.0	21.5	339.0	405.5	287.0	93.0	0.0	15.7
UJJAIN	0.0	4.0	0.0	8.6	3.2	132.0	330.9	517.2	497.2	69.2	20.8	0.1
UMARIA	4.6	14.3	11.8	16.4	0.0	52.3	503.0	402.4	376.5	10.8	0.0	20.5
VIDISHA	0.0	1.6	0.0	17.5	0.3	33.0	345.1	689.3	536.3	32.1	7.5	7.4
MAHARASHTRA												
AHMEDNAGAR	0.0	0.0	0.0	0.0		112.7	137.1	94.0	181.4	244.6	27.0	0.1
AKOLA	0.0	0.2	0.0	0.6	0.0	104.0	253.5	189.9	272.6	65.7	24.0	1.3
AMRAOTI	4.9	0.0	0.0	5.1	0.0	83.4	317.5	253.4	237.9	37.6	4.7	3.0
AURANGABAD	0.0	0.0	0.0	0.2	0.0	101.7	167.7	107.0	230.8	180.1	32.4	3.2
BEED	0.0	1.8	0.8	6.6	0.0	85.3	76.0	73.4	177.6	286.6	39.2	0.0
BHANDARA	19.6	2.5	15.1	0.0	0.0	57.9	398.7	395.2	371.2	30.1	0.5	11.5
BULDHANA	0.0	0.0	0.0	0.7	0.0	129.9	222.6	148.6	168.8	80.1	41.3	2.8
CHANDRAPUR	16.3	6.1	9.3	2.5	0.2	125.9	384.3	431.2	327.4	75.8	7.2	0.4
DHULE						107.4	218.4	316.5	325.5	120.9	17.3	4.8
GADCHIROLI	27.5	2.2	2.8	5.3	1.0	91.6	541.1	674.6	562.3	70.2	6.8	0.6
GONDIA	24.0	3.1	19.5	1.0	4.2	62.8	355.6	402.6	362.9	33.8	0.0	6.7
HINGOLI				7.4		66.2	234.0	152.0	215.2	146.0	27.2	0.0
JALGAON	0.0	0.0	0.0	1.0	0.0	79.9	246.4	278.9	264.9	143.0	47.0	2.2
JALNA	0.0	0.0	0.0	1.6	0.0	104.9	141.4	104.0	175.9	254.5	53.4	1.0
KOLHAPUR	0.0	0.0	0.9	9.8	0.2	308.5	979.6	1136.4	503.1	287.5	7.9	1.5
LATUR	0.0	0.0	0.7	8.9	0.6	101.5	106.9	165.9	176.7	225.4	16.1	0.0
MUMBAI CITY	0.0	0.0	0.0	0.0	0.0	341.1	1175.1	358.8	855.8	102.5	19.0	1.2
MUMBAI SUBURBAN	0.0	0.0	0.0	0.0	0.0	515.7	1464.8	574.0	1115.7	75.0	109.3	1.3
NAGPUR	15.9	0.0	5.4	1.6	0.0	79.8	384.8	316.2	388.4	39.5	2.5	9.5
NANDED	0.0	0.0	0.1	2.5	0.0	73.6	235.3	225.4	280.2	208.4	15.4	0.0
NANDURBAR						53.6	389.0	710.3	192.0	23.7	24.0	0.0
NASHIK	0.0	0.0	0.0	5.4	0.0	97.8	596.3	548.9	311.6	128.2	44.9	3.2
OSMANABAD	0.0	0.0	0.3	6.8	0.0	101.8	94.8	121.1	196.4	241.9	10.4	0.0
PALGHAR	0.0	0.0	0.0	0.0	0.0	373.6	1589.6	952.6	967.6	78.3	56.8	1.2
PARBHANI	0.0	0.0	0.0	5.4	4.9	102.9	133.2	130.0	283.7	248.9	29.3	11.7
PUNE	0.0	0.0	0.0	7.0	0.0	193.1	770.4	521.4	318.7	209.1	32.7	0.7
RAIGAD	0.0	0.0	0.0	0.1	0.0	614.2	1818.1	1215.1	1298.2	207.2	29.4	0.0
RATNAGIRI	0.0	0.0	0.0	0.5	0.0	719.8	1726.5	1123.1	1115.5	221.2	14.0	0.0
SANGLI	0.0	0.0	1.2	10.3	12.0	89.4	197.6	228.3	135.2	262.0	2.5	0.5
SATARA	0.0	0.0	0.0	6.9	0.0	167.1	452.1	524.7	274.9	243.0	9.9	0.8
SHOLAPUR	0.0	0.0	10.7	6.5	2.2	52.1	61.1	36.2	150.2	274.7	12.8	0.8
SINDHUDURG	0.0	0.0	0.0	0.3	0.3	829.9	1413.8	1128.9	897.4	456.3	10.1	0.0
THANE						503.0	1656.3	892.7	1032.8	135.1	26.9	0.0
WARDHA	9.6	0.0	0.0	3.1	0.0	81.2	362.1	275.4	257.0	51.2	2.7	0.9
WASHIM	0.0	0.0	0.0	3.0	0.0	91.5	208.6	131.5	202.4	104.4	22.2	0.0
YEOTMAL	0.0	0.0	0.6	1.9	0.2	74.1	214.0	134.6	141.1	29.1	12.7	1.3
MANIPUR												
BISHNUPUR	1.1	12.8	33.5	86.6	86.1	117.8	175.8	105.6	136.5	59.4	36.0	8.4
CHANDEL	1.2	18.4	25.7	29.8	28.6	132.7	78.5	81.5	118.1	45.3	12.6	7.6
CHURACHANDPUR	1.2	11.2	50.4	63.4	77.0	211.3	164.0	115.6	186.5	24.1	37.2	6.6
IMPHAL EAST	0.5	14.2	19.1	49.9	91.2	90.5	135.3	86.5	194.3	98.9	33.5	8.9
IMPHAL WEST	0.0	18.5	38.0	99.0	125.7	198.7	260.6	171.4	176.3	77.4	10.4	12.5
SENAPATI					68.5	225.8	190.1	154.5	193.1	188.7	33.7	16.0
TAMENGLONG	0.0	30.0	28.7	104.7	277.2	325.4	352.3	305.5	553.3	242.4		
THOUBAL					44.9	128.0	117.4	49.4	137.7	52.6	28.5	9.6
UKHRUL	2.6	9.4	31.2	77.2	57.0	130.3	265.3	95.6	234.6	198.0	46.6	9.4
MEGHALAYA												
EAST GARO HILLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
EAST KHASI HILLS	173.8	5.8	15.8	35.3	230.9	662.2	212.0	860.4	596.8	136.6	131.9	24.5
JAINTIA HILLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
RI-BHOI	174.6	24.4	23.8	56.3	255.6	379.0	184.3	263.8	297.2	181.1	229.3	103.8
SOUTH GARO HILLS	168.0	0.0	0.0	24.9	218.0	904.1	303.7	1278.3	797.3	125.4	57.9	1.2
WEST GARO HILLS	179.7	0.6	28.0	33.7	229.9	573.3	129.0	772.9	563.2	121.5	152.5	0.9
WEST KHASI HILLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MIZORAM												
AIZWAL	0.0	34.3	37.6	122.7	236.0	213.6	542.3	293.4	260.4	118.1	63.1	5.3
CHAMPHAI	1.7	27.0	10.6	55.2		222.8	524.5	176.3	189.9	41.0	50.7	0.0
KOLASIB	1.0	3.1			424.4	395.7	466.0	597.5	426.5	117.4	59.8	0.0
LAWNGTLAI						415.1	840.8	378.7	373.0	125.2	28.2	11.4
LUNGLEI	0.0	41.0	14.8	3.8	71.8	408.5	1419.0	182.9	110.8	93.6	28.4	1.2
MAMIT						138.6	285.1	249.8	328.7	326.0	37.2	4.0
SAIHA					158.8	354.9	591.9	298.4	361.5	71.2	44.6	0.0
SERCHHIP	0.0	0.5	0.2	31.2		267.9	453.9	101.9	75.2	26.2	22.7	0.0
NAGALAND												
DIMAPUR	0.0	17.6	58.0	88.6	200.6	186.1	230.0	211.6	209.8	230.7	38.4	2.5
KEPHIRE	7.3	7.8	27.4	53.0	65.3	82.1	133.8	97.4	199.1	227.9	25.6	5.5
KOHIMA	4.9	17.1	73.5	97.6	185.7	239.5	268.4	257.5	223.2	192.8	44.9	2.9
LONGLENG	11.0	43.0	55.0	176.0		211.5	228.0		275.3	200.9	44.0	0.0
MOKOKCHUNG	4.4	39.3	62.6	156.3	223.8	235.0	454.7	173.3	355.9	215.2	62.2	1.3
MON	2.0	14.3	74.3	141.4	185.7	137.5	168.8	350.7	309.1	158.0	12.0	0.5
PAREN	2.0	23.9	43.9	88.3	38.0	216.2	287.8	433.2	219.9	262.7	56.4	1.3
PHEK	4.5	9.4	66.0	132.7	89.0	216.0	174.0	121.4	264.3	178.4	30.5	5.0
TUENSANG	24.0	19.0	53.0	178.0	71.0	273.0	315.0	349.0	345.3	232.6	49.0	4.0
WOKHA	6.0	13.7	30.2	100.1	84.1	59.3	313.5	224.8	293.0	191.9	19.0	5.5
ZUNHEBOTO	12.0	17.0	26.0	144.0	107.0	393.0	232.0	182.0		133.6	49.0	3.0
ODISHA												
ANGUL	0.3	28.0	23.0	31.9	75.7	138.1	223.9	319.4	287.1	142.2	0.0	3.1
BALASORE	0.0	58.3	29.1	74.9	158.2	130.1	195.4	316.6	363.9	232.8	77.5	2.4
BARGARH	1.5	14.3	35.7	24.9	13.0	141.9	404.3	442.7	428.9	65.4	0.0	2.5
BHADRAK	0.0	18.2	21.4	39.2	98.1	160.2	184.5	389.1	325.5	230.4	76.1	0.5
BOLANGIR	3.2	7.4	27.3	27.5	9.4	115.3	305.6	621.2	340.9	47.6	0.3	0.6
BOUDHGARH	2.3	23.4	34.8	34.4	25.0	151.6	293.0	524.7	363.4	77.3	0.0	0.0
CUTTACK	0.0	30.7	15.9	27.1	178.7	161.9	365.6	358.0	395.5	276.3	11.3	0.0
DEOGARH	0.5	44.6	66.7	35.1	47.5	176.5	246.1	347.5	306.7	139.1	0.0	2.6
DHENKANAL	0.3	23.1	28.5	39.4	140.5	227.5	237.5	360.8	342.4	151.6	0.1	3.8
GAJAPATI	0.0	3.1	21.6	80.7	143.9	60.3	208.1	308.0	305.5	281.2	13.7	1.6
GANJAM	0.0	0.2	19.9	48.7	132.1	104.3	244.8	309.8	426.9	309.6	9.9	0.2
JAGATSINGHPUR	0.0	1.2	11.9	25.3	95.4	153.2	304.4	331.2	488.4	274.2	82.6	1.3
JAJPUR	0.0	16.3	26.9	59.5	200.3	278.0	181.1	490.8	292.7	226.9	28.0	2.4
JHARSUGUDA	1.0	41.9	15.1	31.9	23.2	169.9	298.1	680.3	389.5	134.0	0.0	0.2
KALAHANDI	1.1	6.5	9.7	7.2	28.4	129.5	372.4	589.6	274.2	99.0	4.3	0.0
KANDHAMAL	0.2	24.0	35.6	25.2	71.0	115.9	277.7	607.7	369.2	159.1	8.8	2.0
KENDRAPARA	0.0	0.0	32.8	26.5	83.3	137.3	240.2	391.4	315.6	255.7	76.5	0.0
KEONJHARGARH	0.3	57.4	34.6	42.9	135.7	151.2	239.1	292.1	332.2	179.9	0.3	4.4
KHURDA	0.0	18.7	18.8	24.3	171.5	124.7	354.3	302.8	394.3	334.8	2.9	0.0
KORAPUT	2.3	0.0	5.6	28.9	81.9	205.8	508.9	533.1	385.8	242.7	25.4	0.7
MALKANGIRI	1.0	0.0	3.0	34.0	34.0	128.9	377.4	693.6	198.4	117.0	0.0	0.0
MAYURBHANJ	0.1	70.7	45.1	108.7	185.3	179.4	234.5	441.1	308.7	195.8	12.1	7.6
NAWAPARA	0.0	26.6	14.3	27.4	0.4	111.9	290.2	355.8	276.9	61.1	6.9	0.0
NAWARANGPUR	6.4	4.2	1.4	32.9	78.2	222.4	501.4	409.4	259.8	85.2	8.0	0.0
NAYAGARH	0.0	30.0	38.7	41.6	142.1	110.6	290.2	385.9	470.7	237.1	0.0	0.0
PURI	0.0	0.0	13.7	12.8	134.1	150.2	355.3	290.9	484.6	355.9	15.1	0.4
RAYAGADA	0.8	2.6	12.3	36.3	76.0	75.4	271.4	475.6	247.9	229.4	1.2	0.8
SAMBALPUR	0.8	29.1	31.5	16.3	15.9	141.1	293.1	485.7	371.5	114.0	0.0	0.8
SONEPUR	2.2	14.1	38.8	42.1	26.3	171.2	333.8	537.5	457.7	52.3	0.0	4.2
SUNDARGARH	6.2	40.3	34.3	38.0	24.4	142.3	245.8	438.5	311.3	171.8	0.0	3.0
PUDUCHERRY (UT)												
KARAIKAL	0.0	14.2	0.0	0.0	0.0	31.0	24.3	96.7	213.8	332.1	363.6	357.9
MAHE			0.0	11.6		524.0	923.4	1074.2	450.2	492.4	73.2	165.2

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PUDUCHERRY	0.0	0.0	0.0	0.6	22.6	13.6	144.4	195.4	220.7	252.2	165.4	238.1
YANAM				41.8	0.0	44.4	248.4	142.8	193.6	460.2	0.0	0.0
PUNJAB												
AMRITSAR	22.4	83.4	5.2	25.1	15.3	19.9	153.3	113.6	53.4	5.0	41.2	34.4
BARNALA	13.0	42.0	5.0	12.0	16.0	10.0	133.0	116.7	15.3	39.0	24.4	20.0
BHATINDA	17.5	16.6	10.4	6.1	28.9	42.0	258.9	59.5	20.5	15.7	16.7	7.5
FARIDKOT	4.7	27.1	6.6	24.4	57.4	31.6	133.8	63.6	46.8	7.5	25.1	15.3
FATEHGARH SAHIB	30.7	42.2	7.5	45.0	6.5	69.0	194.8	140.8	48.8	0.0	20.8	16.0
FEROZEPUR	2.1	23.1	6.0	21.4	26.8	7.6	100.5	40.1	6.4	9.5	9.4	15.3
GURDASPUR	101.3	216.1	18.2	28.1	17.8	21.8	290.9	386.6	193.7	6.8	51.2	82.7
HOSHIARPUR	70.7	163.0	10.3	22.3	23.3	13.2	118.3	245.9	101.9	9.8	20.8	45.1
JALANDHAR	43.3	69.0	8.4	18.2	12.4	14.1	81.0	218.0	90.4	0.0	8.9	47.7
KAPURTHALA	27.3	141.8	17.2	7.0	25.2	10.1	310.2	353.4	171.0	3.8	33.8	31.3
LUDHIANA	45.0	97.7	7.6	23.4	25.7	48.2	174.9	241.5	79.6	0.8	25.8	23.6
MANSA	13.1	12.9	3.3	21.8	15.3	22.2	173.4	22.8	0.5	3.0	16.9	6.2
MOGA	1.9	37.0	4.4	3.8	27.7	31.2	148.7	18.7	44.0	6.6	21.8	17.5
MUKTSAR	3.9	33.0	3.3	45.9	26.4	34.6	263.0	72.5	10.8	3.1	46.0	5.2
NAWANSHAHAR	33.0	147.7	7.5	35.7	31.1	42.9	260.1	347.2	117.0	13.3	22.1	61.7
PATIALA	31.0	70.5	16.2	32.7	21.3	34.1	320.6	249.9	157.0	11.8	46.9	6.7
ROPAR	51.8	137.6	12.0	69.0	3.7	46.5	231.2	293.1	208.5	18.0	14.8	67.6
SANGRUR	17.1	22.3	10.5	23.2	21.1	21.8	132.1	86.0	25.2	0.7	19.4	16.7
SAS NAGAR (MOHALI)	13.5	46.3	20.0	14.0	2.0	20.3	236.0	222.2	120.0	0.0	14.0	43.0
TARN TARAN	10.5	88.5	18.0	19.0	13.0	16.0	181.0	69.5	52.0	7.0	22.8	37.2
RAJASTHAN												
AJMER	9.7	0.2	0.1	11.5	4.1	31.2	310.6	346.2	75.7	12.1	3.6	6.8
ALWAR	15.7	1.8	4.7	26.2	9.1	34.7	152.9	137.5	51.3	19.8	3.6	4.6
BANSWARA	0.0	0.0	0.0	0.0	0.0	109.5	216.0	424.9	473.3	61.1	0.7	1.9
BARAN	0.0	9.0	0.0	38.4	5.0	47.9	337.6	511.0	340.9	22.6	1.0	0.3
BARMER	2.2	0.0	0.1	1.8	34.9	26.7	84.3	82.7	91.9	20.1	44.2	1.7
BHARATPUR	25.4	9.5	3.2	28.9	11.8	20.5	195.7	174.3	95.9	7.6	2.1	6.0
BHILWARA	1.0	1.8	0.2	19.6	7.2	75.8	307.3	476.4	205.1	6.8	2.4	2.2
BIKANER	3.7	2.2	1.0	10.7	24.5	14.9	51.2	102.0	33.2	16.6	31.6	8.6
BUNDI	0.0	0.0	0.0	15.0	5.0	75.5	363.8	523.0	212.7	7.8	0.0	0.0
CHITTORGARH	1.7	0.2	0.0	23.0	7.5	116.6	252.7	530.0	277.9	27.9	14.8	0.0
CHURU	1.9	0.5	2.0	11.2	35.3	21.9	197.6	126.3	22.0	8.3	34.4	6.5
DAUSA	13.8	2.8	0.0	18.8	8.2	45.2	259.0	273.5	69.4	24.2	0.0	3.6
DHOLPUR	26.7	13.0	6.5	16.1	6.0	56.0	263.8	214.3	158.0	22.0	19.7	12.0
DUNGARPUR	0.0	0.0	0.0	2.0	3.7	155.0	173.1	398.0	281.1	106.8	1.3	0.0
HANUMANGARH	0.7	5.9	13.2	32.5	31.1	27.3	90.3	21.0	11.7	1.0	30.3	8.6
JAIPUR	8.3	1.1	0.0	17.5	5.6	30.4	309.9	272.7	82.6	12.8	1.7	2.1
JAISALMER	13.9	2.7	2.1	0.1	21.8	32.0	24.6	58.9	46.2	27.9	31.0	0.0
JALORE	0.0	0.0	0.0	0.3	12.3	43.0	84.6	251.9	135.1	16.6	6.1	0.6
JHALAWAR	0.1	16.1	0.5	36.8	1.5	85.2	326.1	699.0	611.6	45.6	8.4	0.8
JHUNJHUNU	6.4	1.4	3.0	8.2	10.3	45.4	354.8	166.3	34.5	11.9	10.8	17.8
JODHPUR	5.3	0.2	0.3	1.7	20.4	30.9	129.6	189.7	46.2	11.6	20.9	1.8
KARAULI	7.5	6.2	0.3	14.5	7.2	39.8	191.8	190.5	105.8	7.8	23.3	10.0
KOTA	0.0	7.0	0.0	35.4	1.9	72.0	365.0	566.2	288.6	28.2	6.4	0.6
NAGAUR	2.6	0.8	0.0	11.3	13.8	12.4	199.2	292.0	29.5	27.8	16.5	3.3
PALI	10.5	0.0	0.0	3.1	14.6	24.4	183.3	381.3	105.8	4.9	4.6	4.3
PRATAPGARH	0.0	0.0	0.0	17.6	5.6	189.8	351.6	582.6	539.0	125.2	3.8	3.0
RAJSAMAND	0.0	0.0	0.0	19.7	12.7	74.0	233.3	396.7	137.7	19.9	4.4	2.4
SAWAI MADHOPUR	2.5	1.9	0.3	14.9	0.0	70.6	390.7	342.2	125.9	8.9	2.8	7.9
SIKAR	7.0	1.1	2.4	9.0	30.4	47.1	376.1	198.3	59.3	2.9	22.7	7.1
SIROHI	0.5	0.4	0.0	3.7	16.7	113.2	164.6	543.5	132.6	39.9	1.9	0.3
SRI GANGANAGAR	1.2	8.3	4.7	23.2	32.1	18.7	54.9	44.1	30.9	1.8	18.7	14.9
TONK	2.5	2.2	0.2	10.9	2.4	46.4	250.1	384.4	156.1	9.9	1.5	5.4
UDAIPUR	3.8	0.0	0.0	11.4	12.8	140.9	135.6	471.0	228.7	79.9	3.8	0.4
SIKKIM												
EAST SIKKIM	2.1	49.2	102.1	203.0	429.4	384.7	657.7	363.9	337.0	70.1	3.2	11.5
NORTH SIKKIM	25.7	92.7	236.2	155.3	443.7	531.4	588.0	351.4	559.8	88.7	8.5	26.3
SOUTH SIKKIM	5.6	58.3	73.1	202.7	241.8	221.7	503.4	164.8	453.0	109.3	5.3	14.1

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
WEST SIKKIM	4.0	33.2	40.0	176.5	172.1	147.3	640.8	315.0	354.3	49.1	2.5	18.0
TAMILNADU												
ARIYALUR	0.0	0.0	0.0	0.0	0.1	5.2	109.1	156.6	317.0	170.1	181.9	171.5
CHENNAI	0.1	1.5	0.0	0.0	0.0	56.0	191.5	142.9	197.5	277.6	145.4	214.7
COIMBATORE	1.1	1.2	1.7	20.7	39.4	43.0	56.6	484.3	182.2	284.0	105.0	53.0
CUDDALORE	0.6	1.6	0.0	0.1	5.5	22.2	81.1	125.1	165.6	216.4	238.5	235.1
DHARMAPURI	9.2	0.0	4.0	24.7	93.0	60.9	51.1	100.3	218.9	176.1	64.4	35.8
DINDIGUL	0.0	5.7	3.8	30.8	26.5	32.3	13.3	24.9	179.9	212.6	105.3	77.4
ERODE	1.8	0.0	0.3	20.1	56.1	41.4	19.3	62.7	128.8	226.2	70.7	37.1
KANCHEEPURAM	0.2	0.3	0.1	2.7	5.6	39.3	150.7	130.9	108.8	303.3	205.6	184.1
KANYAKUMARI	0.0	12.6	2.4	60.4	31.6	127.2	80.7	185.4	236.5	356.9	92.1	82.0
KARUR	0.0	0.0	0.5	7.9	30.3	33.4	11.7	20.7	144.0	122.0	69.0	85.1
KRISHNAGIRI	13.2	1.2	4.5	47.2	96.5	33.6	34.6	94.7	138.6	177.7	48.7	39.5
MADURAI	4.9	0.5	0.5	17.3	37.1	22.8	27.4	69.9	183.0	168.7	98.8	41.1
NAGAPATTINAM	0.6	2.0	0.6	0.0	0.0	4.1	39.7	141.2	205.9	326.7	390.7	344.9
NAMAKKAL	1.5	4.3	3.4	35.3	39.4	18.1	9.6	79.8	164.1	165.6	79.4	30.2
NILGIRIS	0.1	10.2	45.7	83.5	84.0	80.2	160.1	666.3	314.7	520.7	137.8	123.9
PERAMBALUR	0.0	0.0	0.0	0.5	55.3	5.0	20.3	140.0	191.8	174.0	90.0	70.5
PUDUKKOTTAI	0.0	0.0	0.0	6.2	3.9	17.0	55.6	79.3	193.1	233.8	173.3	113.9
RAMANATHAPURAM	0.1	0.9	0.0	6.0	2.4	0.0	13.5	47.6	91.9	398.7	173.9	188.2
SALEM	3.9	2.1	2.4	69.0	43.0	53.5	52.5	125.2	260.9	172.9	104.7	37.6
SIVAGANGA	0.0	3.1	0.0	4.9	12.3	22.0	85.5	125.1	221.4	266.5	113.5	112.0
THANJAVUR	0.0	3.0	0.0	5.1	1.5	4.5	44.8	93.4	236.7	206.6	177.7	168.9
THENI	0.2	11.1	16.8	49.0	49.3	24.4	40.1	161.7	125.4	164.9	100.4	42.8
TIRUNELVELI	4.9	18.1	14.9	45.3	21.4	38.2	13.1	103.6	114.1	269.6	239.6	174.8
TIRUPPUR	2.8	0.0	0.3	0.0	26.5	49.4	5.9	62.7	63.7	141.8	72.4	62.7
TIRUVALLUR	0.1	0.4	0.2	1.7	7.6	36.9	115.7	173.1	263.8	317.5	79.6	177.7
TIRUVANNAMALAI	0.1	0.7	0.0	15.8	28.5	67.9	193.7	158.4	263.8	183.3	78.7	81.0
TIRUVARUR	0.0	0.6	0.0	6.9	0.0	2.4	58.9	151.4	222.3	232.6	221.1	232.4
TOOTHUKUDI	1.9	3.7	0.0	8.0	5.1	4.9	0.4	15.3	69.3	245.9	178.9	135.9
TRICHY	0.0	0.0	0.0	9.4	22.4	3.3	19.6	69.7	180.9	151.5	103.3	74.9
VELLORE	2.0	0.5	1.7	1.6	32.4	55.9	132.8	181.9	153.1	144.4	49.7	71.2
VILLUPURAM	0.0	0.0	0.0	0.4	22.1	25.5	110.6	121.8	194.8	195.7	112.8	122.5
VIRUDHUNAGAR	8.1	3.5	6.8	0.5	6.0	29.3	12.8	89.7	178.7	203.5	111.9	62.8
TELANGANA												
ADILABAD	1.2	0.3	2.3	5.0	0.0	120.3	394.6	289.7	212.1	79.8	2.5	0.6
B. KOTHAGUDEM	13.6	0.0	6.0	15.4	30.6	55.0	283.3	444.9	290.6	164.5	16.7	3.8
HYDERABAD	8.4	1.7	0.0	36.1	16.1	116.9	86.4	157.4	339.7	132.3	1.0	4.7
J. BHUPALPALLY	45.4	2.1	0.0	20.3	10.5	97.1	432.0	553.2	229.7	249.5	16.5	6.4
JAGTIAL	36.9	7.1	4.8	2.7	1.9	154.0	273.2	304.0	267.0	163.8	3.3	0.3
JANGAON	36.6	3.1	0.0	76.4	9.0	137.1	184.9	242.3	237.0	234.1	4.8	6.5
JOGULAMBA GADWAL	44.0	0.0	0.0	20.6	3.7	49.4	86.8	79.1	171.1	107.2	0.0	1.7
KAMAREDDY	4.9	2.5	0.1	1.9	6.8	127.7	268.7	258.7	332.0	188.2	11.9	0.0
KARIMNAGAR	55.2	3.5	3.8	6.4	3.8	140.9	272.7	229.4	363.1	256.2	20.0	0.1
KHAMMAM	39.8	0.0	10.0	7.3	39.8	35.2	199.0	244.5	229.0	147.3	11.2	6.1
KUMARAM BHEEM	17.5	4.5	3.0	9.7	4.8	136.6	409.8	418.2	249.0	88.8	12.7	1.6
M. MALKAJGIRI	10.0	2.5	0.3	11.6	33.3	85.0	170.6	159.6	218.6	164.1	1.5	1.0
MAHABUBABAD	34.0	3.1	2.4	10.3	30.9	66.0	213.7	345.0	256.4	200.0	27.0	3.5
MAHABUBNAGAR	11.5	0.0	0.0	5.1	12.6	71.4	142.6	117.0	202.3	141.5	3.6	5.4
MANCHERIAL	17.4	0.0	17.0	4.4	1.2	96.4	298.1	388.2	256.6	141.2	26.5	0.4
MEDAK	13.2	0.8	0.9	4.3	8.9	96.9	175.3	226.2	275.8	111.1	4.9	1.0
NAGARKURNOOL	29.7	0.0	0.0	9.2	25.3	81.8	129.9	118.8	185.3	126.1	6.0	1.2
NALGONDA	35.0	0.0	0.1	17.2	7.0	39.1	81.8	121.1	213.2	134.4	0.0	9.7
NIRMAL	1.6	0.5	4.9	2.4	0.0	108.6	264.9	273.3	263.4	144.4	5.3	0.2
NIZAMABAD	0.7	1.6	0.0	0.4	2.0	110.9	311.4	319.7	380.7	164.5	22.7	0.2
PEDDAPALLE	48.0	10.8	0.4	5.4	0.3	81.2	269.5	374.9	350.8	196.1	2.0	1.2
RAJANNA SIRCILLA	42.6	7.8	0.0	5.7	5.5	60.5	290.3	223.9	330.6	206.8	10.6	0.0
RANGAREDDY	13.1	0.2	0.2	42.4	7.3	74.0	75.2	129.2	172.3	118.2	3.9	3.8
SANGAREDDY	16.3	0.0	0.0	8.9	7.7	100.6	92.1	196.4	183.2	105.9	11.0	0.1
SIDDIPET	41.7	0.5	0.5	23.5	4.5	90.2	182.0	175.5	247.9	228.4	1.5	0.3
SURYAPET	25.4	0.2	0.0	13.5	11.9	52.8	160.2	161.1	202.9	144.0	0.6	7.5

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
VIKARABAD	0.4	0.0	0.0	3.6	12.1	97.6	84.1	217.0	145.2	126.7	5.2	0.6
WANAPARTHY	26.0	0.0	0.0	7.2	8.4	56.2	173.6	164.6	197.6	118.4	20.8	0.0
WARANGAL_RURAL	18.6	4.4	0.0	9.9	15.5	82.1	248.9	351.5	245.2	284.0	11.6	8.8
WARANGAL_URBAN	26.0	2.0	0.0	45.2	14.0	81.1	294.6	288.5	251.7	237.1	13.3	1.4
Y. BHUVANAGIRI	8.3	1.6	0.0	40.1	8.9	63.7	131.9	134.0	245.4	234.4	0.0	3.0
TRIPURA												
DHALAI	0.0	29.2	38.7	190.5	379.3	395.0	710.7	196.1	266.0	207.1	40.4	0.8
NORTH TRIPURA	0.0	46.9	35.2	330.6	494.1	459.5	604.6	181.2	215.5	314.9	32.7	3.3
SOUTH TRIPURA	0.0	51.4	14.0	134.3	209.3	172.3	700.9	217.0	233.3	116.5	82.4	4.2
WEST TRIPURA	0.0	62.9	44.4	166.9	216.3	263.6	568.6	195.6	190.3	121.2	37.6	6.2
UTTAR PRADESH												
AGRA	14.6	17.1	4.2	11.4	2.3	16.2	206.6	159.4	113.3	11.7	16.9	12.6
ALIGARH	13.2	15.3	13.6	12.0	7.7	6.3	99.7	166.6	99.8	0.8	1.2	17.4
ALLAHABAD	10.5	7.0	2.2	1.7	0.9	17.2	306.8	279.5	385.8	68.0	0.0	19.2
AMBEDKAR NAGAR	17.0	4.0	0.0	0.0	0.0	34.0	653.0	169.0	387.4	0.0	0.0	13.0
AMETHI	11.3	7.6	6.5	1.4	0.0	31.9	228.4	212.3	333.2	11.2	0.0	13.0
AURAIYA	1.0	6.0	3.0	3.0	0.0	58.4	97.8	178.7	153.5	16.4	2.0	4.0
AZAMGARH	5.3	18.6	3.1	0.0	0.0	27.5	265.6	88.7	478.5	13.6	0.0	7.7
BADAUN	14.5	23.0	8.8	19.0	3.8	11.0	208.3	95.0	75.5	0.0	4.8	27.5
BAGHPAT	27.0	45.8	5.0	1.7	14.2	5.8	226.6	94.0	0.0	9.0	20.8	38.0
BAHRAICH	26.5	73.3	5.1	8.6	1.7	130.6	533.9	194.2	224.5	1.8	0.0	37.5
BALLIA	7.4	5.7	4.9	1.4	5.2	92.4	503.8	131.7	389.6	24.3	0.0	14.9
BALRAMPUR	15.7	21.4	1.0	0.0	4.0	330.3	520.0	142.4	277.0	0.0	0.0	
BANDA	4.8	4.3	0.0	7.3	0.3	13.6	408.9	219.5	312.8	59.9	0.0	8.7
BARABANKI	23.4	29.7	2.9	1.2	0.0	41.8	470.8	285.6	432.7	13.0	0.0	18.8
BAREILLY	19.2	35.5	9.9	9.2	0.5	82.9	370.4	194.1	109.0	0.0	20.3	65.8
BASTI	30.8	30.5	4.5	7.7	0.0	37.9	649.2	220.4	376.7	1.3	0.0	25.2
BIJNOR	65.8	85.2	4.6	14.6	1.9	14.4	419.2	254.1	114.6	0.3	22.8	48.1
BULANDSHAHAR	18.1	29.0	10.1	6.0	10.7	1.7	102.3	144.6	62.5	1.6	1.5	23.3
CHANDAULI	5.0	9.0	3.0	1.0	0.0	14.0	270.9	156.5	297.0	92.0	0.0	45.0
CHITRAKOOT	11.8	6.5	1.0	1.5	0.0	12.5	352.5	323.3	145.3	120.0	0.0	22.0
DEORIA	11.0	18.2	3.3	14.2	0.0	105.0	369.4	79.5	260.9	2.0	0.0	33.0
ETAH	14.7	13.4	8.0	5.3	0.3	7.0	206.7	218.7	114.7	0.0	9.0	34.7
ETAWAH	0.0	25.5	2.0	2.0	0.0	27.7	211.6	130.4	96.7	12.1	16.0	3.0
FAIZABAD	29.5	10.8	0.0	1.0	0.0	76.7	410.2	209.7	302.2	2.3	0.0	17.5
FARRUKHABAD	2.8	16.9	6.0	3.3	0.0	19.2	278.1	80.3	133.2	3.0	10.4	37.8
FATEHPUR	8.9	11.1	1.7	3.4	1.5	22.4	161.4	142.1	242.5	38.3	0.0	15.2
FIROZABAD	25.8	9.0	5.7	6.4	0.7	1.1	123.0	193.6	118.5	0.0	14.7	24.4
GAUTAM BUDDHA NAGAR	65.0	48.0	18.0	0.0	92.0	15.0	183.0	157.0	59.0	17.0	8.0	120.0
GHAZIABAD	17.7	19.9	3.2	1.8	18.1	4.1	66.1	56.2	19.7	3.0	1.4	4.4
GHAZIPUR	5.4	12.9	7.5	0.5	0.1	103.9	327.5	145.9	300.3	25.0	0.0	22.1
GONDA	20.5	48.1	4.0	4.5	0.0	90.1	348.3	128.9	297.0	2.0	0.0	15.3
GORAKHPUR	10.7	26.5	1.5	3.3	6.0	66.0	628.8	150.7	411.1	5.1	0.0	8.8
HAMIRPUR	8.7	17.7	0.3	8.3	2.3	91.2	299.0	291.9	224.5	51.5	0.0	11.0
HAPUR	34.0	17.0	3.0	0.0	9.0	8.0	118.0	230.0	40.0	0.0	8.0	58.0
HARDOI	2.7	29.7	1.2	7.4	0.5	39.4	268.4	193.0	102.1	1.3	2.2	37.6
JALAUN	10.3	22.5	0.0	1.8	5.3	28.3	190.6	210.4	145.0	20.5	0.0	10.0
JAUNPUR	4.2	4.5	2.7	0.0	0.6	17.5	236.8	101.9	336.7	15.2	0.0	4.5
JHANSI	12.5	8.9	0.3	7.0	6.7	23.1	232.3	161.4	193.3	49.9	0.0	7.2
JYOTIBA PHULE NAGAR	10.2	19.0	0.0	17.0	0.0	34.0	153.0	68.9	152.4	0.0	11.5	38.0
KANNAUJ	0.0	44.8	11.8	4.8	0.0	25.3	219.6	195.9	291.9	2.8	21.4	43.0
KANPUR CITY	19.1	22.4	4.0	1.1	1.0	35.3	243.1	140.7	205.1	16.6	0.6	11.3
KANPUR DEHAT	2.8	9.3	1.0	0.0	0.0	7.3	91.1	87.9	88.4	14.1	0.0	3.4
KANSHIRAM NAGAR	18.8	35.0	12.0	9.0	0.0	1.1	313.3	179.4	94.5	0.0	0.0	8.0
KAUSHAMBI	15.0	5.0	0.0	0.0	0.0	0.0	186.5	122.3	360.4	95.5	0.0	10.5
KHERI	5.5	52.2	9.4	0.0	17.9	44.3	336.4	77.0	84.0	0.4	12.1	60.6
KUSHI NAGAR	4.0	16.4	1.0	5.8	0.0	136.0	380.8	33.5	146.5	1.0	0.0	6.5
LALITPUR	0.0	6.5	0.0	0.0	8.0	32.9	268.5	392.0	199.0	30.5	0.0	13.2
LUCKNOW	21.7	21.3	1.8	2.5	0.0	15.2	377.0	185.5	279.0	4.3	0.0	13.4
MAHAMAYA NAGAR	0.0		19.0	7.9	8.0	0.0	219.9	191.3	59.5	0.0	0.0	13.5
MAHARAJGANJ	11.5	36.0	0.5	9.0	6.5	77.9	333.9	71.3	215.8	0.0	0.0	12.0

DISTRICT-WISE RAINFALL STATISTICS

DISTRICTS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
MAHOBA	0.0	2.0	0.0	2.4	2.4	26.9	118.3	204.0	169.1	35.6	0.0	14.4
MAINPURI	5.0	18.1	2.0	5.0	0.0	24.1	152.5	67.5	95.7	0.0	4.7	27.6
MATHURA	10.0	4.0	0.0	12.0	0.0	0.0	127.9	96.5	78.8	17.5	0.0	2.0
MAU	0.0	5.5	0.0	0.0	0.0	24.9	316.0	62.8	223.5	18.0	0.0	13.0
MEERUT	28.2	43.3	5.9	3.4	6.7	1.8	235.2	186.4	72.7	3.2	29.2	24.9
MIRZAPUR	3.5	7.8	8.5	3.0	3.5	44.7	495.1	238.2	591.9	53.0	0.0	11.0
MORADABAD	23.0	41.2	9.8	13.3	3.1	60.9	256.0	159.8	212.7	2.2	22.6	102.9
MUZAFFARNAGAR	26.0	48.2	4.3	11.7	6.0	1.5	236.0	314.4	3.8	0.0	41.2	29.8
PILIBHIT	7.7	33.1	6.1	1.3	0.0	26.0	182.0	112.0	52.0	8.0	14.3	47.8
PRATAPGARH	23.3	9.3	9.0	1.0	0.0	63.3	285.0	193.0	568.2	91.0	0.0	26.0
RAE BAREILLY	1.9	2.7	1.0	0.0	0.0	9.6	181.8	120.7	200.8	18.3	0.0	3.7
RAMPUR	12.9	31.3	4.4	7.0	0.0	42.4	213.1	114.0	99.2	2.0	0.8	50.2
SAHARANPUR	23.7	40.7	5.0	4.7	2.3	0.7	270.3	229.0	47.3	0.0	4.3	10.7
SAMBHAL			9.8	9.2	0.0	0.0	236.9	123.4	132.2	0.0	15.5	120.0
SANT KABIR NAGAR	15.0	17.2	3.0	16.0	0.0	43.0	664.5	98.0	286.2	3.5	0.0	0.2
SANT RAVIDAS NAGAR	40.0	30.0	7.0	0.0	0.0	0.0	338.7	196.0	682.0	191.0	0.0	22.0
SHAHJAHANPUR	3.6	32.9	10.6	5.2	2.1	52.3	391.2	116.6	100.5	0.0	9.3	88.3
SHAMLI	6.3	27.0	0.0	0.0	3.0	6.0	83.0	81.0	0.0	0.0	15.0	9.0
SHRAWASTI NAGAR	13.0	28.0	2.0	9.0	0.0	235.1	691.7	171.8	160.1	0.0	0.0	
SIDDHARTH NAGAR	10.0	2.1	5.0	1.0	0.0	44.2	456.6	145.7	320.5	0.0	0.0	4.0
SITAPUR	13.5	49.7	5.2	5.2	0.0	39.3	302.2	140.7	92.2	0.1	0.8	22.0
SONBHADRA	5.2	6.0	25.9	1.5	0.7	29.6	271.0	247.7	382.8	60.7	0.0	19.9
SULTANPUR	23.6	18.3	6.0	2.2	4.6	68.6	373.6	167.3	277.1	12.5	0.0	24.2
UNNAO	10.8	41.3	2.0	1.0	0.0	18.1	191.0	155.8	184.3	17.0	0.0	14.8
VARANASI	14.1	10.7	6.3	3.7	0.5	26.4	307.7	245.5	466.5	44.6	0.0	30.3
UTTARAKHAND												
ALMORA	56.0	118.4	22.0	27.0	20.0	77.0	179.4	288.9	155.1	37.0	24.0	62.5
BAGESHWAR	58.3	120.0	20.2	41.7	14.2	84.0	246.2	523.5	350.8	29.2	11.8	57.5
CHAMOLI	96.1	151.9	51.3	49.3	40.6	50.3	209.1	381.5	200.0	32.1	33.7	68.4
CHAMPAWAT	41.5	78.5	10.0	12.0	12.5	98.4	267.5	371.7	313.7	2.5	8.0	65.5
DEHRADUN	68.8	113.2	41.6	27.7	25.4	89.8	336.3	364.6	301.3	22.6	23.2	35.8
GARHWAL PAURI	62.1	97.1	10.8	13.7	9.8	23.1	202.6	314.6	171.5	22.2	25.1	59.1
GARHWAL TEHRI	102.6	172.2	34.3	38.4	13.0	67.2	192.3	233.0	139.1	35.8	28.7	65.2
HARDWAR	52.8	48.1	3.8	15.7	5.9	21.1	262.9	266.7	146.5	7.5	10.2	33.1
NAINITAL	40.7	111.2	25.5	25.2	24.1	134.4	498.0	363.8	291.7	67.8	25.9	72.2
PITHORAGARH	96.8	147.8	51.9	92.6	44.7	133.7	423.0	478.4	376.1	36.1	7.9	42.1
RUDRAPRAYAG	103.8	140.9	34.0	80.9	32.5	101.8	351.2	554.7	252.9	23.1	46.7	64.3
UDHAM SINGH NAGAR	13.1	38.0	7.6	10.2	0.1	136.0	328.3	245.3	252.4	6.9	24.0	69.8
UTTARKASHI	102.3	153.4	49.9	30.0	49.0	84.6	243.2	317.0	124.7	39.4	30.2	57.5
WEST BENGAL												
BANKURA	0.0	33.8	23.2	69.5	175.9	113.8	226.0	319.6	267.3	173.1	11.6	12.3
BIRBHUM	0.1	27.6	20.0	54.5	139.9	72.2	242.3	191.1	255.1	196.0	0.5	1.9
BURDWAN	0.0	64.0	16.3	47.8	129.9	90.9	195.8	233.1	215.8	191.7	16.8	11.1
COOCH BEHAR	0.4	14.6	42.3	195.3	315.8	403.1	1002.8	270.2	383.1	108.2	11.7	0.0
DARJEELING	0.4	26.7	46.6	129.1	141.0	260.3	1069.2	487.4	669.4	74.4	7.7	2.4
EAST MIDNAPORE	0.0	137.5	28.6	58.7	61.8	143.6	154.7	422.8	421.1	330.5	159.0	10.4
HOOGHLY	0.0	86.4	32.4	71.1	109.8	110.3	166.6	254.3	206.3	131.7	59.8	17.5
HOWRAH	0.0	150.7	33.4	42.6	62.1	84.6	172.0	513.1	300.1	110.7	93.3	6.7
JALPAIGURI	0.7	21.3	50.6	136.8	270.3	639.6	1253.5	306.3	628.3	128.8	3.1	2.7
KOLKATA	0.0	147.2	69.6	60.1	90.5	91.5	159.9	548.6	387.0	137.6	111.4	11.8
MALDA	0.0	38.1	3.6	77.0	121.1	98.8	373.5	104.0	364.9	145.6	0.0	1.3
MURSHIDABAD	0.0	34.5	18.7	66.3	188.6	85.4	246.3	104.7	198.5	184.4	3.1	0.3
NADIA	0.0	75.3	22.6	69.8	101.9	73.7	174.7	230.6	169.8	144.6	52.5	13.3
NORTH 24 PARGANAS	0.0	139.7	81.6	63.2	88.7	98.7	208.7	421.6	322.7	204.7	98.2	9.5
NORTH DINAJPUR	0.0	24.2	2.8	78.5	85.6	215.3	362.5	159.5	373.0	66.4	0.0	0.0
PURULIA	0.1	32.5	28.5	53.1	115.4	99.6	239.0	344.9	307.1	172.0	0.0	22.8
SOUTH 24 PARGANAS	0.0	180.6	82.4	54.8	82.0	143.4	235.3	489.7	381.9	216.0	195.8	8.4
SOUTH DINAJPUR	0.0	16.7	4.3	71.4	112.9	139.8	373.6	136.6	314.9	166.6	0.0	3.2
WEST MIDNAPORE	0.0	107.2	63.6	75.7	113.0	128.0	216.9	397.9	361.7	125.5	40.0	7.6

Table 28: % Departures of District-wise Monthly Rainfall - Year 2018

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ANDAMAN & NICOBAR ISLANDS												
NICOBAR	77%	-55%	-65%	-50%	-27%	44%	-29%	1%	-13%	-42%	-28%	-59%
NORTH & MIDDLE ANDAMAN	400%	-100%	-100%	-53%	-36%	94%	-32%	177%	78%	-50%	-71%	-99%
SOUTH ANDAMAN	325%	-97%	24%	-55%	-42%	28%	-71%	75%	22%	-59%	-35%	-99%
ANDHRA PRADESH												
ANANTAPUR	172%	-77%	-100%	-28%	-16%	-11%	-52%	-17%	72%	59%	-68%	33%
CHITTOOR	39%	-73%	-100%	-49%	-56%	-21%	-15%	26%	50%	36%	-71%	73%
CUDDAPAH	516%	-87%	-100%	-12%	-60%	-48%	-30%	-6%	63%	16%	-65%	50%
EAST GODAVARI	-45%	-100%	-9%	33%	-96%	-28%	37%	38%	17%	25%	-92%	-93%
GUNTUR	283%	-95%	-94%	-54%	-68%	-10%	5%	16%	61%	40%	-92%	-88%
KRISHNA	226%	-33%	6%	2%	-71%	-47%	10%	-1%	51%	17%	-93%	-89%
KURNOOL	1123%	-93%	-95%	-70%	-24%	-16%	-32%	3%	75%	7%	-83%	-45%
NELLORE	-60%	-74%	-100%	62%	-73%	-59%	16%	-11%	37%	26%	-64%	40%
PRAKASAM	72%	-96%	-83%	64%	-64%	-25%	27%	-8%	9%	26%	-91%	-1%
SRIKAKULAM	-100%	-92%	-70%	-68%	104%	-51%	-8%	26%	56%	78%	-99%	-11%
VISHAKHAPATNAM	-97%	-94%	-12%	-1%	-41%	-31%	-16%	-2%	68%	31%	-92%	-86%
VIZIANAGARAM	-100%	-97%	-11%	-21%	-50%	-39%	-3%	23%	52%	108%	-99%	-92%
WEST GODAVARI	70%	-96%	-80%	-75%	-93%	-58%	-1%	13%	36%	-15%	-95%	-100%
ARUNACHAL PRADESH												
ANJAW		26%	-14%	-80%	77%	-52%	-3%	-59%	-23%	-57%	-42%	-100%
CHANGLANG	-36%	-3%	-42%	-41%	111%	-15%	-9%	-59%	21%	-38%	-80%	-66%
DIBANG VALLEY					5%	-63%	187%	-55%	-56%	-63%	-80%	
EAST KAMENG	-100%	-100%	-94%	-73%	-33%	-32%	-24%	-76%	-9%	-57%	-100%	-100%
EAST SIANG	-63%	27%	-34%	-32%	9%	-32%	19%	-65%	13%	-38%	-26%	-82%
KURUNG KUMEY	-79%	55%	50%	-29%	79%	-35%	34%	-26%	96%	24%	140%	-10%
LOHIT	-82%	-9%	-47%	-75%	81%	-24%	37%	-1%	16%	-44%	-93%	-99%
LOWER DIBANG VALLEY	-87%	-74%	-72%	-92%	49%	1%	262%	8%	-23%	-34%	-97%	-88%
LOWER SUBANSIRI				-60%	6%	-55%	47%	-33%	83%	-29%	-36%	-22%
PAPUMPARA	-70%	30%	-68%	-36%	21%	-26%	33%	-55%	11%	19%	26%	-7%
TAWANG	-79%	63%	197%	-65%	-44%	-87%	-32%	-59%	-35%	-62%	-84%	-100%
TIRAP	-61%	-51%	-80%			-66%	-43%	-41%	-28%	-27%	-94%	-98%
UPPER SIANG	-58%	96%	57%	-71%	12%	-23%	45%	-70%	0%	-17%	-52%	19%
UPPER SUBANSIRI	-100%	-50%	-3%	-16%	23%	-41%	44%	-55%	72%	-19%	-68%	-13%
WEST KAMENG	-100%	-50%	-3%	-16%	23%	-41%	44%	-55%	72%	-19%	-68%	-13%
WEST SIANG	-58%	21%	-1%	-26%	-33%	4%	25%	-87%	43%	-23%	-40%	44%
ASSAM												
BAKSA	-95%	56%	-61%	60%	75%	58%	97%	-27%	21%	-61%	-70%	-99%
BARPETA	-100%	47%	-35%	-8%	73%	-31%	66%	-62%	-22%	-55%	-9%	-100%
BONGAIGAON	-100%	-40%	-91%	-71%	17%	-27%	72%	-34%	-5%	-44%	-3%	-100%
CACHAR	-100%	-42%	-67%	-42%	-25%	-15%	23%	-27%	2%	103%	-36%	-72%
CHIRANG	-93%	308%	-44%	-35%	0%	-27%	92%	-45%	35%	-39%	93%	-100%

DISTRICT-WISE RAINFALL STATISTICS

DARRANG	-94%	-74%	80%	79%	-6%	-85%	-78%	-76%	-29%	-32%	-100%	-100%
DHEMAJI	-100%				8%	13%	131%	-60%	15%	90%	-53%	-100%
DHUBRI	-100%	55%	-41%	-11%	-1%	-44%	10%	-58%	4%	-10%	-92%	-100%
DIBRUGARH	-55%	5%	-36%	-34%	89%	-25%	7%	-57%	-4%	0%	-73%	-69%
GOALPARA	-77%	-10%	4%	-12%	53%	-30%	26%	-35%	39%	0%	-99%	-100%
GOLAGHAT	-23%	-12%	-11%	33%	36%	-47%	-11%	-44%	58%	42%	-58%	-92%
HAILAKANDI	-100%	-39%	-44%	-3%	0%	-6%	6%	0%	-22%	56%	-30%	-76%
JORHAT	-68%	-21%	4%	-19%	49%	-8%	-4%	-37%	28%	59%	-73%	-20%
KAMRUP (RURAL)	-99%	-66%	14%	50%	69%	-54%	-14%	-28%	-2%	-29%	-99%	-100%
KAMRUP METRO.	-97%	-21%	-17%	31%	62%	-35%	-13%	-10%	64%	95%	71%	-99%
KARBI ANGLONG	-100%	-71%	-42%	86%	3%	-43%	-46%	-44%	-40%	67%	-71%	-100%
KARIMGANJ	-100%	-70%	-83%	-19%	-16%	-23%	7%	-7%	-43%	52%	-51%	-93%
KOKRAJHAR	-100%	32%	-2%	-4%	43%	-33%	93%	-51%	31%	-44%	-94%	-64%
LAKHIMPUR	-75%	-6%	-13%	-30%	38%	-2%	39%	-72%	49%	83%	-43%	-18%
MORIGAON	-70%	-85%	16%	-46%	23%	-62%	-16%	-47%	-14%	27%	-91%	-100%
N. C. HILLS	-100%	-75%	-68%	-57%	30%	-29%	5%	-54%	1%	21%	-2%	-100%
NAGAON	-82%	-8%	-15%	-39%	-25%	-37%	-39%	-31%	-36%	26%	-37%	-78%
NALBARI	-98%	-28%	-33%	65%	61%	29%	48%	-49%	-6%	-24%	-88%	-100%
SHONITPUR	-94%	8%	-25%	17%	46%	6%	25%	-52%	26%	2%	-54%	38%
SIBSAGAR	-57%	-6%	12%	17%	69%	-37%	-21%	-53%	18%	44%	-64%	16%
TINSUKIA	-71%	30%	-25%	-58%	98%	-13%	22%	-66%	5%	-30%	-45%	-99%
UDALGURI	-100%	131%	-28%	38%	32%	-23%	56%	-8%	63%	-43%	-88%	100%
BIHAR												
ARARIA	-74%	295%	-18%	102%	-13%	-21%	31%	-55%	66%	-91%	-100%	-75%
ARWAL	22%	21%	103%	-29%	-85%	-70%	-29%	-65%	37%	-64%	-100%	600%
AURANGABAD	-20%	-41%	-62%	-61%	-100%	-88%	-19%	7%	81%	-46%	-100%	518%
BANKA	-100%	284%	-95%	-19%	79%	-62%	-9%	-55%	81%	57%	-100%	-48%
BEGUSARAI	-100%	120%	-100%	-49%	-79%	-88%	-44%	-63%	89%	-40%	-100%	263%
BHABUA	-49%	14%	-36%	-74%	-100%	-34%	23%	-19%	74%	26%	-100%	659%
BHAGALPUR	-40%	331%	-92%	36%	2%	-61%	29%	-61%	127%	-40%	-100%	65%
BHOJPUR	-80%	82%	-24%	57%	148%	-71%	5%	-68%	85%	-84%	-100%	224%
BUXAR	-48%	35%	4%	-93%	-64%	-36%	65%	-40%	118%	-55%	-100%	410%
DARBHANGA	-84%	104%	-96%	217%	-70%	-36%	41%	-53%	91%	-90%	-100%	248%
EAST CHAMPARAN	-52%	110%	-91%	42%	-68%	-47%	82%	-82%	69%	-74%	-100%	141%
GAYA	-4%	54%	-13%	-36%	-14%	-55%	-30%	-10%	101%	-48%	-100%	210%
GOPALGANJ	-33%	40%	-48%	-35%	-96%	-1%	82%	-56%	132%	-83%	-100%	66%
JAHANABAD	-18%	4%	-16%	68%	67%	-61%	-24%	-23%	115%	-2%	-100%	733%
JAMUI	-81%	453%	-100%	-49%	-38%	-69%	6%	-48%	43%	6%	-100%	123%
KATIHAR	-61%	224%	-100%	129%	-34%	-47%	6%	-55%	50%	-52%	-100%	40%
KHAGARIA	-42%	317%	-100%	-11%	-68%	-69%	25%	-62%	82%	-36%	-100%	161%
KISHANGANJ	-100%	334%	-67%	230%	-16%	-29%	49%	-60%	11%	-69%	-100%	-93%
LAKHISARAI	60%	461%	-62%	131%	-100%	-77%	11%	-61%	49%	-41%	-100%	112%
MADHEPURA	-79%	253%	-100%	66%	-53%	-22%	49%	-68%	94%	-35%	-100%	-22%
MADHUBANI	-50%	91%	-79%	420%	-57%	-52%	28%	-64%	113%	-87%	-100%	121%
MONGHYR	-33%	267%	-76%		-77%	-85%	17%	-61%	34%	-47%	-100%	-60%
MUZAFFARPUR	-71%	238%	-70%	-53%	-88%	-70%	62%	-74%	87%	-83%	-100%	614%

DISTRICT-WISE RAINFALL STATISTICS

NALANDA	71%	128%	-33%	-74%	157%	-60%	-15%	-45%	171%	-74%	-100%	385%
NAWADA	-67%	210%	-33%	61%	-98%	-70%	10%	-34%	125%	-51%	-100%	249%
PATNA	-91%	-18%	-58%	-40%	-85%	-67%	-17%	-58%	113%	-95%	-100%	536%
PURNEA	-99%	371%	-100%	59%	-46%	-12%	-29%	-48%	72%	-61%	-100%	-39%
ROHTAS	-55%	-58%	18%	-56%	-62%	-84%	-27%	-29%	87%	-32%	-100%	235%
SAHARSA	-30%	-21%	-90%	-48%	-74%	-59%	-18%	-48%	54%	-90%	-100%	29%
SAMASTIPUR	-88%	231%	-47%	-35%	-65%	-60%	24%	-15%	174%	-78%	-100%	502%
SARAN	-69%	88%	-23%	-13%	-85%	-51%	51%	-57%	59%	-71%	-100%	408%
SHEIKHPURA	-50%	225%	-95%	-16%	-98%	-93%	-12%	-55%	37%	-67%	-100%	-49%
SHEOHAR	-90%	23%	-56%	236%	-87%	-77%	68%	-68%	36%	-99%	-100%	104%
SITAMARHI	-90%	144%	-92%	149%	-67%	-50%	62%	-82%	67%	-97%	-100%	59%
SIWAN	-20%	29%	-65%	-79%	-58%	-56%	122%	-71%	89%	-66%	-100%	236%
SUPAUL	-51%	61%	-69%	232%	-51%	-11%	30%	-60%	126%	-93%	-100%	-9%
VAISHALI	-100%	119%	-72%	-36%	-97%	-69%	-3%	-51%	129%	-87%	-100%	322%
WEST CHAMPARAN	19%	541%	-23%	333%	-11%	77%	39%	-58%	10%	-81%	-100%	163%
CHANDIGARH (UT)												
CHANDIGARH (UT)	-53%	35%	-29%	146%	-37%	-81%	13%	-20%	-4%	-99%	262%	26%
CHHATTISGARH												
BALOD	630%	13%	77%	664%	99%	-35%	-25%	-44%	167%	76%	-100%	-86%
BALODA BAZAR	246%	302%	105%	253%	-100%	-48%	-32%	10%	91%	3%	-100%	-90%
BALRAMPUR	-34%	171%	72%	-15%	-27%	-30%	-26%	11%	-18%	58%	-100%	124%
BASTAR	156%	-100%	-100%	-84%	6%	-18%	72%	59%	96%	104%	-99%	-97%
BEMETARA	69%	33%	121%	-94%	-77%	-49%	-43%	18%	62%	-28%	-100%	-57%
BIJAPUR	493%	-100%	-100%	-6%	2%	-53%	97%	94%	66%	77%	-85%	-77%
BILASPUR	29%	-21%	60%	-61%	-58%	-47%	-10%	4%	71%	-22%	-100%	-11%
DANTEWADA	-56%	-79%	-100%	35%	543%	-30%	40%	22%	71%	-8%	-80%	-100%
DHAMTARI	-69%	-19%	146%	84%	5%	57%	-23%	-21%	69%	117%	-100%	-100%
DURG	10%	-29%	-2%	-100%	-100%	-18%	-49%	-20%	77%	55%	-100%	-38%
GARIABAND	-26%	-18%	67%	-77%	-18%	15%	-7%	-6%	66%	45%	-100%	-89%
JANJGIR	72%	33%	9%	-74%	5%	-48%	-31%	-27%	82%	58%	-100%	-71%
JASHPUR	-85%	7%	-20%	54%	-83%	-54%	-46%	-11%	48%	120%	-100%	-32%
KABIRDHAM	56%	9%	105%	-76%	-85%	-27%	-14%	24%	7%	-55%	-92%	-94%
KANKER	-41%	-7%	-100%	-90%	-51%	-47%	8%	-11%	76%	162%	-100%	-100%
KONDAGAON	-44%	74%	-100%	-60%	53%	43%	60%	-4%	69%	123%	48%	-100%
KORBA	-100%	50%	40%	4%	-18%	-44%	-47%	-1%	106%	161%	-100%	-9%
KORIYA	-3%	41%	88%	-100%	-85%	-53%	-19%	18%	24%	-13%	-100%	66%
MAHASAMUND	258%	29%	105%	-100%	-100%	-22%	2%	8%	72%	94%	-100%	-100%
MUNGELI	24%	-8%	141%	-60%	-75%	-48%	-35%	-19%	32%	-20%	-100%	-66%
NARAYANPUR	-14%	-100%	-100%	-63%	36%	13%	45%	33%	121%	218%	-90%	-100%
RAIGARH	-45%	16%	-20%	-53%	-56%	-49%	-30%	12%	108%	79%	-100%	-89%
RAIPUR	339%	-19%	-64%	-58%	-94%	-43%	-37%	-19%	100%	29%	-100%	-92%
RAJNANDGAON	81%	-33%	66%	-4%	-100%	-66%	-13%	-15%	69%	-16%	-78%	-92%
SUKMA	-100%	-100%	348%	31%	-26%	-5%	60%	66%	58%	42%	-93%	-100%
SURAJPUR	108%	19%	197%	62%	2%	-58%	4%	56%	3%	35%	-100%	1236%
SURGUJA	-24%	1%	-79%	-88%	-91%	-69%	-48%	-17%	13%	49%	-100%	-32%
DADARA & NAGAR												

DISTRICT-WISE RAINFALL STATISTICS

HAVELI

DADARA & NAGAR HAVELI	-100%	-100%	-100%	-100%	-100%	4%	82%	49%	130%	164%	207%	-100%

DAMAN & DIU

DAMAN	-100%	-100%	-100%	-100%	-100%	-15%	25%	32%	112%	64%	104%	-100%
DIU	-100%	-100%	-100%	-100%	-100%	-20%	-68%	38%	550%	-86%	582%	167%

DELHI

CENTRAL DELHI	-13%	-55%	-100%	-100%	-87%	-98%				187%	4%	282%
EAST DELHI	314%	18%	-90%	-73%	-58%	-99%	-61%	-20%	-84%	-3%	-100%	72%
NEW DELHI	281%	14%	-54%	-65%	-19%	-86%	-7%	-49%	-50%	330%	-85%	377%
NORTH DELHI	185%	247%	-26%	6%	-45%	-58%	-2%	-4%	-10%	354%	198%	241%
NORTH EAST DELHI	405%	2%	-90%	45%	-29%	-94%	-60%	-37%	-23%	-73%	91%	158%
NORTH WEST DELHI	54%	9%	-93%	-68%	-85%	-86%				-30%	67%	-62%
SOUTH DELHI	292%	15%	21%	-45%	-48%	-89%	9%	-49%	-48%	41%	-46%	117%
SOUTH WEST DELHI	149%	87%	-72%	192%	-37%	-95%	-26%	-31%	-63%	16%	146%	546%
WEST DELHI	43%	-47%	-100%	45%	-68%	-86%				-78%		

GOA

NORTH GOA	-100%	-100%	-100%	-73%	-98%	-20%	25%	71%	142%	235%	-41%	-100%
SOUTH GOA	-100%	-100%	-100%	-72%	-97%	-7%	19%	56%	110%	265%	-43%	-98%

GUJARAT REGION

AHMEDABAD	-100%	-100%	-100%	-14%	-100%	-31%	-66%	57%	80%	266%	-43%	-100%
AMRELI	-100%	-100%	-100%	-100%	-93%	-3%	-36%	85%	188%	235%	4%	-100%
ANAND	-100%	-100%	-100%	-100%	-100%	-46%	-38%	104%	86%	495%	-69%	-100%
ARAVALLI	-100%	1733%	-100%	-49%	-100%	-15%	-37%	51%	122%	721%	-92%	-100%
BANASKANTHA	-100%	-59%	-100%	219%	-98%	16%	-46%	20%	102%	507%	146%	253%
BHARUCH	-100%	-100%	-100%	-100%	-100%	7%	16%	140%	93%	243%	55%	-100%
BHAVNAGAR	-100%	-100%	-100%	-100%	-98%	-13%	-12%	77%	113%	114%	7%	-100%
BOTAD	-100%	-100%	-100%	-100%	-100%	-11%	-12%	161%	207%	119%	43%	-100%
CHHOTA UDEPUR	-100%	-100%	-100%	-100%	-100%	-20%	-11%	191%	88%	179%	22%	-100%
DAHOD	-100%	-100%	-100%	-100%	-100%	-38%	-43%	21%	97%	134%	-72%	-100%
DANGS	-100%	-100%	-100%	-100%	-100%	-38%	21%	64%	80%	50%	76%	-100%
DEVBHOOMI DWARKA	260%	-100%	-100%	-100%	-100%	-61%	-39%	70%	885%	-64%	73%	-7%
GANDHINAGAR	-100%	-100%	-100%	-100%	-100%	52%	-83%	73%	145%	288%	-59%	-100%
GIR SOMNATH	-100%	-75%	-100%	-100%	-100%	30%	-53%	17%	332%	-18%	25%	1825%
JAMNAGAR	-100%	-100%	-100%	-100%	-100%	-31%	-16%	94%	603%	12%	80%	206%
JUNAGADH	-100%	-100%	-100%	-100%	-100%	-7%	-46%	72%	487%	81%	32%	-17%
KHEDA	-100%	-100%	-100%	-100%	-100%	-38%	-50%	89%	86%	443%	-38%	-100%
KUTCH	241%	-26%	-99%	-46%	-93%	-73%	-33%	182%	348%	104%	227%	88%
MAHISAGAR	-100%	-100%	-100%	-100%	-100%	-10%	-49%	25%	133%	180%	-94%	-100%
MEHSANA	-100%	1%	-100%	284%	-97%	9%	-79%	59%	100%	555%	25%	8%
MORBI	-100%	-100%	-100%	40900%	-100%	-58%	-39%	147%	321%	792%	154%	-100%
NARMADA	-100%	-100%	-100%	-100%	-100%	-25%	-3%	116%	99%	139%	132%	-100%
NAVSARI	-100%	-100%	-100%	-100%	-100%	-9%	-5%	41%	146%	185%	329%	-100%
PANCHMAHAL	-100%	-100%	-100%	-100%	-100%	-4%	-30%	100%	38%	73%	-29%	-100%
PATAN	-100%	81%	-100%	-33%	-99%	5%	-64%	90%	184%	1313%	-72%	268%
PORBANDAR	-100%	-100%	-100%	-100%	-100%	-39%	-61%	17%	588%	-8%	-89%	1559%

DISTRICT-WISE RAINFALL STATISTICS

RAJKOT	-100%	-100%	-100%	-82%	-100%	-36%	-30%	76%	362%	82%	10%	-100%
SABARKANTHA	-100%	-29%	-100%	338%	-40%	58%	-71%	73%	92%	561%	14%	-100%
SURAT	-100%	-100%	-100%	-100%	-100%	-26%	-5%	108%	127%	102%	149%	-86%
SURENDRANAGAR	-100%	-100%	-100%	127%	-100%	-54%	-26%	116%	254%	509%	286%	-100%
TAPI	-100%	-100%	-100%	-100%	-100%	-57%	6%	75%	59%	112%	131%	-100%
VADODARA	-100%	-100%	-100%	-100%	-100%	-37%	-46%	101%	42%	220%	-37%	24%
VALSAD	-100%	-100%	-100%	-100%	-100%	-29%	45%	39%	126%	72%	454%	-100%
HARYANA												
AMBALA	-26%	43%	-39%	281%	-61%	-79%	-12%	-6%	-53%	-100%	297%	-26%
BHIWANI	-52%	-24%	-15%	-17%	29%	-23%	-19%	-55%	-95%	1%	323%	138%
FARIDABAD	153%	30%	23%	-20%	-19%	-86%	-22%	-45%	-49%	-18%	-100%	-55%
FATEHABAD	-69%	-64%	-39%	-91%	-60%	-57%	-45%	-70%	-87%	-100%	728%	18%
GURGAON	65%	-16%	-9%	7%	-7%	-89%	-17%	-50%	-61%	-5%	-80%	339%
HISAR	28%	-82%	-52%	-62%	124%	11%	-25%	-68%	-97%	-62%	302%	-71%
JHAJJAR	-34%	10%	-70%	13%	-38%	-74%	-29%	-71%	-77%	36%	93%	208%
JIND	-30%	8%	-67%	-14%	-41%	-46%	-34%	-47%	-87%	-69%	180%	52%
KAITHAL	137%	252%	31%	163%	39%	-66%	-28%	-65%	-54%	-70%	756%	-24%
KARNAL	3%	-15%	-49%	-22%	33%	-77%	36%	-36%	-86%	-97%	353%	45%
KURUKSHETRA	-17%	64%	-34%	24%	88%	-57%	36%	-63%	-50%	-100%	590%	42%
MAHENDRAGARH	-43%	-89%	-38%	161%	-87%	-49%	-32%	-56%	-75%	15%	-40%	75%
MEWAT	275%	-42%	-19%	184%	-78%	-91%	-22%	-36%	-85%	-66%	-100%	13%
PALWAL	32%	-49%	101%	130%	-65%	-95%	-28%	-44%	-38%	-100%	-100%	286%
PANCHKULA	-68%	-32%	-68%	58%	-77%	-91%	-66%	-46%	-37%	-81%	110%	-40%
PANIPAT	-6%	-6%	-69%	-92%	-29%	-88%	-47%	-55%	-86%	-76%	677%	19%
REWARI	-20%	-14%	-13%	240%	-85%	-62%	1%	-30%	-55%	20%	-3%	356%
ROHTAK	-55%	-47%	-69%	-84%	46%	-85%	-51%	-77%	-96%	74%	-51%	74%
SIRSA	23%	-42%	-18%	391%	-8%	11%	27%	-41%	-90%	-99%	436%	291%
SONEPAT	-36%	10%	-60%	-72%	6%	-54%	-22%	-72%	-93%	-72%	513%	118%
YAMUNA NAGAR	-6%	49%	-44%	85%	-55%	-91%	14%	8%	-59%	4%	73%	-3%
HIMACHAL PRADESH												
BILASPUR	-13%	167%	-47%	5%	-52%	-47%	13%	89%	-7%	107%	99%	53%
CHAMBA	-8%	63%	-41%	-47%	-32%	-56%	-61%	-17%	-61%	-6%	200%	4%
HAMIRPUR	1%	229%	-49%	-22%	-54%	-73%	29%	37%	6%	44%	109%	77%
KANGRA	30%	158%	-53%	11%	-26%	-79%	-23%	-6%	11%	-21%	197%	145%
KINNAUR	-15%	45%	-14%	-88%	11%	4%	-72%	-31%	-86%	-50%	354%	-19%
KULLU	69%	176%	17%	-17%	-5%	-15%	-6%	73%	-36%	-20%	357%	124%
LAHAUL & SPITI	-21%	47%	-70%	-83%	-68%	0%	-93%	-23%	-95%	-100%	38%	-46%
MANDI	21%	183%	-14%	-19%	-49%	-49%	-24%	17%	-10%	0%	84%	43%
SHIMLA	-18%	73%	-33%	-17%	-10%	-30%	10%	42%	-30%	-13%	174%	-3%
SIRMAUR	51%	126%	-37%	147%	-25%	-66%	-23%	-7%	21%	44%	205%	67%
SOLAN	24%	101%	-23%	-3%	-9%	-41%	-14%	4%	-28%	-77%	135%	5%
UNA	85%	327%	-18%	33%	-31%	-64%	-4%	48%	-10%	90%	3%	111%
JAMMU & KASHMIR												
ANANTNAG	58%	103%	-41%	-56%	-27%	73%	-22%	-48%	-88%	25%	483%	99%
BADGAM	35%	63%	-39%	-47%	-36%	110%	-31%	-18%	-96%	-41%	728%	-46%
BANDIPORE	74%	13%	-45%	-28%	118%	199%	-3%	-10%	-66%	-38%	338%	-39%

DISTRICT-WISE RAINFALL STATISTICS

District												
BARAMULA	95%	71%	-22%	-35%	28%	208%	13%	64%	-54%	-15%	507%	-58%
DODA	64%	98%	-41%	-54%	6%	27%	0%	-9%	-98%	-23%	238%	-4%
GANDERBAL	66%	72%	9%	-60%	17%	35%	-2%	-46%	-100%	37%	386%	33%
JAMMU	37%	102%	-41%	-23%	-66%	-91%	-56%	-56%	-38%	-48%	344%	-31%
KARGIL	32%	1239%	-61%	-100%	-97%	83%	-56%	-100%	-68%	-44%	727%	
KATHUA	-8%	86%	-85%	-48%	-48%	-89%	-38%	-17%	-65%	-83%	164%	9%
KISTWAR												
KULGAM	32%	16%	-52%	-44%	-9%	82%	39%	24%	-97%	-57%	439%	56%
KUPWARA	136%	34%	-28%	-30%	18%	84%	-8%	-52%	-89%	-13%	562%	-44%
LADAKH (LEH)	-63%	330%	-94%	-99%	-88%	-43%	-25%	-46%	-79%	-100%	-100%	-100%
POONCH					-48%	13%	-37%	-5%	-97%	-92%	-55%	-38%
PULWAMA	53%	113%	-37%	-65%	-51%	21%	-7%	14%	-99%	-67%	620%	33%
RAJOURI	69%	73%	-26%	-29%	-8%	-31%	-36%	-62%	-64%	230%	562%	-54%
RAMBAN	44%	58%	-55%	-48%	14%	73%	4%	-19%	-93%	-17%	368%	47%
REASI	25%	75%	-55%	5%	73%	-40%	40%	89%	29%	0%	358%	159%
SAMBA	-9%	53%	-73%	-51%	-90%	-96%	-50%	-9%	6%	110%	186%	104%
SHOPIAN								-48%	-100%	-100%	614%	-38%
SRINAGAR	40%	53%	-27%	-56%	4%	95%	13%	0%	-98%	-6%	666%	-66%
UDHAMPUR	63%	95%	-65%	-22%	16%	-69%	30%	-47%	-45%	22%	361%	69%
JHARKHAND												
BOKARO	-99%	76%	-5%	4%	13%	-54%	-34%	-17%	33%	82%	-99%	135%
CHATRA	-92%	147%	-27%	68%	-97%	-84%	-27%	-33%	13%	-50%	-100%	468%
DEOGHAR	-100%	119%	-100%	303%	13%	-55%	-11%	-57%	11%	76%	-100%	-100%
DHANBAD	-100%	38%	-64%	75%	11%	-49%	-17%	-17%	20%	82%	-100%	4%
DUMKA	-100%	105%	-47%	100%	61%	-51%	4%	-11%	20%	-21%	-100%	-100%
EAST SINGBHUM	-100%	268%	162%	217%	66%	-45%	-1%	-5%	85%	237%	-100%	138%
GARHWA	-82%	-60%	14%	20%	-100%	-70%	-46%	-46%	-59%	-33%	-100%	247%
GIRIDIH	-100%	-15%	-74%	108%	15%	-50%	-24%	-25%	29%	99%	-100%	117%
GODDA	-100%	-100%	-100%	67%	49%	-87%	-40%	-75%	24%	-5%	-100%	-40%
GUMLA	-91%	-14%	66%	165%	-50%	-54%	-39%	2%	22%	90%	-100%	130%
HAZARIBAG	-70%	-1%	-28%	-59%	-87%	-63%	-26%	-29%	36%	56%	-100%	-1%
JAMTARA	-100%	-31%	-95%	-22%	59%	-61%	8%	-12%	10%	73%	-100%	-45%
KHUNTI	-89%	-62%	256%	282%	-33%	-73%	-50%	-16%	-23%	11%	-100%	-50%
KODERMA	-100%	218%	-93%	-18%	-100%	-76%	22%	-15%	63%	-23%	-100%	88%
LATEHAR	-100%	143%	-5%	100%	-100%	-50%	-32%	-34%	-48%	1%	-100%	-71%
LOHARDAGA	-100%	-4%	16%	138%	-81%	-23%	-5%	4%	-25%	39%	-100%	167%
PAKUR	-100%	101%	-96%	50%	-8%	-86%	-23%	-57%	-16%	4%	-100%	-100%
PALAMU	-65%	-27%	5%	39%	-91%	-40%	-4%	14%	5%	-27%	-100%	167%
RAMGARH	-71%	48%	79%	-7%	29%	-63%	-28%	-2%	69%	178%	-97%	112%
RANCHI	-96%	52%	143%	32%	-67%	-50%	-44%	-16%	-8%	125%	-97%	170%
SAHIBGANJ	-100%	135%	-100%	99%	184%	13%	29%	-21%	146%	-7%	-100%	124%
SERAIKELA-KHARSAWAN	-100%	-64%	239%	60%	-2%	-43%	-48%	-13%	1%	174%	-100%	209%
SIMDEGA	-96%	77%	47%	179%	-55%	-35%	-38%	39%	28%	191%	-100%	-28%
WEST SINGBHUM	-100%	124%	1%	284%	28%	-69%	-16%	15%	-7%	181%	-100%	146%
KARNATAKA												
BAGALKOTE	-100%	-100%	-85%	2%	-36%	39%	36%	11%	18%	135%	48%	-53%

DISTRICT-WISE RAINFALL STATISTICS

BALLARI	-100%	-4%	-72%	-23%	-51%	-28%	-12%	-20%	70%	91%	-69%	-34%
BELAGAVI	-71%	-98%	117%	-47%	-85%	-1%	54%	292%	30%	219%	-27%	-20%
BENGALURU RURAL	175%	-89%	-100%	35%	72%	-8%	-46%	23%	-8%	51%	-79%	-47%
BENGALURU URBAN	-63%	500%	-100%	-32%	47%	-13%	-37%	14%	2%	71%	-32%	-14%
BIDAR	-43%	-100%	-100%	-48%	-84%	-5%	-42%	15%	13%	79%	147%	-96%
CHAMARAJANAGAR	-93%	2%	-100%	-69%	15%	-25%	-53%	119%	11%	16%	-28%	-56%
CHIKABALLAPURA	139%	-10%	-100%	52%	37%	105%	-39%	-37%	-17%	30%	-58%	-17%
CHIKKAMAGALURU	-100%	176%	-46%	-36%	-48%	-45%	-18%	126%	119%	163%	-63%	227%
CHITRADURGA	2%	103%	-100%	-46%	-26%	9%	-8%	74%	43%	130%	-40%	201%
DAKSHINA KANNADA	-100%	-52%	-98%	-34%	-74%	-50%	-20%	61%	105%	95%	-15%	139%
DAVANGERE	-100%	3%	-74%	-19%	-14%	-41%	-2%	134%	2%	180%	-27%	1%
DHARWAD	-100%	-100%	29%	46%	-66%	-25%	12%	204%	-7%	150%	-26%	-27%
GADAG	-100%	-100%	-56%	-50%	-58%	8%	50%	84%	-25%	128%	5%	-43%
HASSAN	-100%	149%	-80%	-17%	20%	-36%	-43%	150%	35%	71%	-59%	190%
HAVERI	-100%	-100%	-7%	-48%	-75%	-41%	18%	222%	3%	294%	-65%	-95%
KALABURGI	-100%	-100%	-36%	-58%	-54%	14%	-35%	9%	13%	60%	-50%	-55%
KODAGU	-100%	-64%	-66%	-19%	-57%	-49%	-35%	120%	114%	51%	-32%	76%
KOLAR	179%	1000%	-100%	182%	31%	9%	-54%	-10%	-21%	25%	-69%	-6%
KOPPAL	37%	-75%	-100%	61%	-64%	27%	-10%	-15%	25%	130%	-71%	-73%
MANDYA	-100%	-51%	-99%	-24%	36%	13%	-5%	125%	17%	83%	42%	-52%
MYSURU	-100%	190%	-84%	-19%	31%	-23%	-13%	329%	15%	25%	5%	54%
RAICHUR	-9%	-100%	-100%	-31%	-52%	-12%	-21%	-56%	52%	-20%	-77%	-75%
RAMANAGARA	-55%	13%	-100%	-7%	-9%	37%	-52%	31%	-24%	50%	-40%	-61%
SHIVAMOGGA	-100%	-53%	-50%	-42%	-93%	-49%	-6%	121%	113%	152%	-39%	24%
TUMAKURU	-31%	72%	-100%	-42%	-5%	60%	-42%	8%	28%	63%	-44%	129%
UDUPI	-100%	-100%	-71%	-55%	-98%	-35%	15%	58%	119%	215%	-16%	-6%
UTTARA KANNADA	-100%	-100%	16%	30%	-86%	-22%	18%	82%	105%	231%	-17%	-87%
VIJAYAPURA	-100%	-100%	-90%	38%	-45%	14%	-13%	-40%	-7%	43%	50%	-68%
YADGIR	-100%	-100%	-100%	-10%	-38%	-22%	2%	-53%	8%	-38%	-47%	-82%
KERALA												
ALAPUZHA	-100%	-89%	-80%	-54%	-86%	-30%	-27%	99%	18%	36%	-6%	40%
CANNUR	-100%	-100%	-94%	-38%	-81%	-40%	4%	100%	105%	68%	24%	167%
ERNAKULAM	-100%	-49%	-86%	20%	-76%	-43%	-17%	140%	60%	92%	-3%	23%
IDUKKI	-71%	22%	-61%	-27%	-77%	-55%	-41%	66%	32%	3%	-34%	-20%
KASARGOD	-100%	-100%	-100%	-50%	-80%	-51%	20%	81%	82%	115%	-43%	251%
KOLLAM	-100%	-43%	6%	-53%	-69%	-42%	-30%	112%	67%	26%	-42%	-53%
KOTTAYAM	-76%	-39%	-80%	-45%	-74%	-36%	-10%	100%	57%	86%	-13%	-21%
KOZHIKODE	-100%	-100%	-90%	-46%	-83%	-26%	3%	176%	70%	100%	-28%	1%
MALAPPURAM	-100%	-93%	-87%	-19%	-74%	-46%	-23%	176%	58%	79%	-35%	16%
PALAKKAD	-100%	-45%	-94%	16%	-65%	-44%	-22%	217%	118%	51%	-19%	-59%
PATHANAMTHITTA	-100%	93%	11%	47%	-57%	-46%	-31%	115%	44%	57%	-19%	-28%
THIRUVANANTHAPURAM	-100%	-34%	-99%	-43%	-49%	-16%	-35%	126%	71%	22%	-34%	-14%
THRISSUR	-52%	-86%	-82%	18%	-80%	-48%	-29%	127%	66%	55%	-21%	-37%
WYNAD	-100%	116%	-37%	85%	-41%	-63%	-50%	110%	72%	57%	-20%	85%
LAKSHADWEEP												
LAKSHADWEEP	-100%	187%	-62%	-36%	-93%	-27%	66%	52%	-5%	254%	-68%	466%

MADHYA PRADESH											
AGAR-MALWA	-100%	-100%	-100%	606%	-100%	-24%	17%	131%	409%	148%	-81%	-100%
ALIRAJPUR	-100%	-100%	-100%	164%	-100%	-29%	30%	169%	89%	307%	268%	-100%
ANUPPUR	0%	-29%	200%	-9%	-53%	-33%	-10%	29%	116%	-56%	-100%	-44%
ASHOKNAGAR	-100%	132%	-81%	1567%	-100%	-53%	11%	89%	161%	176%	-38%	-96%
BALAGHAT	50%	10%	35%	-91%	-100%	-82%	-23%	-1%	105%	-58%	-87%	-64%
BARWANI	-100%	-100%	-100%	-90%	-99%	-44%	49%	120%	130%	87%	-52%	-100%
BETUL	-100%	-95%	-97%	162%	-100%	-35%	19%	56%	55%	166%	-79%	-26%
BHIND	-100%	278%	-100%	-12%	-8%	18%	16%	-8%	35%	-63%	106%	-100%
BHOPAL	-100%	-95%	-100%	306%	-92%	-15%	90%	46%	210%	281%	-95%	120%
BURHANPUR	-100%	-100%	-100%	-32%	-89%	-28%	71%	81%	117%	100%	118%	-87%
CHHATARPUR	-80%	-31%	-80%	191%	-52%	-55%	-11%	37%	112%	21%	-100%	202%
CHHINDWARA	105%	-62%	-4%	114%	-100%	-59%	-32%	39%	176%	36%	-90%	52%
DAMOH	-90%	-86%	-86%	-15%	-91%	-56%	33%	39%	130%	-15%	-100%	52%
DATIA	-91%	226%	-100%	102%	-6%	-27%	20%	-43%	31%	-49%	-100%	-2%
DEWAS	-100%	-100%	-100%	17%	-100%	-44%	35%	28%	257%	41%	-93%	-100%
DHAR	-100%	-80%	-100%	379%	-100%	-16%	11%	68%	112%	83%	-71%	-97%
DINDORI	-57%	-36%	142%	-7%	-100%	-33%	17%	1%	129%	184%	-100%	71%
GUNA	-88%	-31%	-95%	455%	-95%	-65%	3%	123%	205%	16%	-73%	-89%
GWALIOR	-80%	193%	-70%	105%	82%	-7%	2%	-23%	85%	-72%	-94%	-74%
HARDA	-100%	36%	222%	-55%	-100%	-62%	24%	9%	252%	89%	51%	-33%
HOSHANGABAD	-62%	-57%	229%	262%	-59%	-63%	20%	62%	127%	117%	-85%	47%
INDORE	-100%	-11%	-100%	-65%	-94%	5%	43%	46%	215%	57%	-25%	-100%
JABALPUR	-79%	-33%	-69%	418%	-97%	-55%	16%	76%	88%	-15%	-100%	20%
JHABUA	-100%	157%	-100%	200%	-100%	31%	17%	127%	167%	219%	39%	-65%
KATNI	-10%	-1%	393%	843%	-100%	1%	-21%	-17%	228%	-39%	-100%	878%
KHANDWA	-100%	-100%	-100%	-100%	-100%	-7%	65%	50%	138%	131%	7%	-49%
KHARGONE	-100%	-100%	-100%	-100%	-100%	-61%	32%	72%	101%	48%	-91%	-100%
MANDLA	-10%	-55%	24%	-30%	-100%	-50%	21%	29%	197%	67%	-100%	-9%
MANDSAUR	-100%	-50%	-100%	1115%	-100%	-4%	69%	212%	311%	162%	-41%	-100%
MORENA	247%	83%	-82%	322%	18%	73%	4%	-10%	50%	-13%	341%	51%
NARSINGHPUR	-100%	-98%	-93%	186%	-100%	-39%	37%	48%	212%	-92%	-72%	6%
NEEMUCH	-100%	-14%	-89%	821%	-100%	34%	52%	141%	329%	148%	58%	-49%
PANNA	-88%	-88%	-100%	-100%	-100%	-75%	-22%	13%	67%	83%	-100%	246%
RAISEN	-100%	-41%	-100%	298%	-64%	-47%	34%	70%	236%	-6%	-16%	98%
RAJGARH	-100%	-100%	-100%	428%	-100%	-14%	26%	98%	299%	135%	3%	-74%
RATLAM	-100%	-100%	-100%	871%	-66%	70%	55%	53%	189%	125%	-98%	-86%
REWA	62%	-27%	170%	204%	-74%	-76%	18%	36%	84%	66%	-100%	117%
SAGAR	-100%	-95%	-99%	410%	-83%	-49%	-7%	56%	168%	-79%	-83%	8%
SATNA	-32%	15%	54%	31%	117%	-59%	-1%	10%	-2%	-73%	-100%	183%
SEHORE	-100%	-62%	-36%	-100%	19%	-26%	67%	27%	225%	53%	-96%	-22%
SEONI	20%	-88%	-20%	-51%	-91%	-56%	-5%	30%	242%	74%	-100%	22%
SHAHDOL	-62%	-62%	68%	317%	-100%	-70%	-21%	-4%	22%	-11%	-100%	219%
SHAJAPUR	-100%	-100%	-100%	173%	-100%	-31%	80%	58%	272%	210%	-34%	-100%
SHEOPUR	-57%	197%	-100%	733%	-100%	26%	33%	19%	28%	-11%	-100%	2%
SHIVPURI	-88%	19%	-93%	577%	-72%	-37%	13%	0%	73%	30%	-23%	-82%

DISTRICT-WISE RAINFALL STATISTICS

District												
SIDHI	4%	-71%	138%	-20%	-100%	-93%	-37%	5%	68%	4%	-100%	747%
SINGRAULI	44%	-6%	382%	407%	45%	-40%	26%	49%	119%	-23%	-100%	853%
TIKAMGARH	-100%	-63%	-100%	0%	48%	-77%	9%	22%	88%	280%	-100%	145%
UJJAIN	-100%	14%	-100%	473%	-48%	21%	21%	69%	216%	147%	34%	-99%
UMARIA	-81%	-33%	-14%	110%	-100%	-62%	55%	2%	72%	-74%	-100%	38%
VIDISHA	-100%	-83%	-100%	873%	-95%	-73%	1%	89%	248%	39%	-51%	-33%
MAHARASHTRA												
AHMEDNAGAR	-100%	-100%	-100%	-100%		4%	41%	-1%	23%	258%	15%	-98%
AKOLA	-100%	-95%	-100%	-74%	-100%	-24%	14%	-12%	131%	22%	36%	-81%
AMRAOTI	-41%	-100%	-100%	95%	-100%	-43%	14%	-11%	55%	-26%	-75%	-62%
AURANGABAD	-100%	-100%	-100%	-92%	-100%	-19%	10%	-30%	53%	223%	30%	-70%
BEED	-100%	1%	-81%	26%	-100%	-34%	-40%	-47%	3%	294%	81%	-100%
BHANDARA	41%	-82%	23%	-100%	-100%	-69%	4%	2%	88%	-46%	-96%	6%
BULDHANA	-100%	-100%	-100%	-56%	-100%	-7%	16%	-28%	40%	40%	132%	-54%
CHANDRAPUR	26%	-39%	-31%	-76%	-99%	-31%	8%	19%	82%	26%	-35%	-96%
DHULE						-12%	28%	137%	197%	237%	-2%	-1%
GADCHIROLI	167%	-74%	-73%	-58%	-94%	-57%	26%	58%	198%	5%	-39%	-91%
GONDIA	47%	-75%	39%	-88%	-49%	-67%	-14%	-3%	83%	-30%	-100%	-47%
HINGOLI				17%		-61%	2%	-37%	39%	127%	52%	-100%
JALGAON	-100%	-100%	-100%	-11%	-100%	-35%	30%	42%	114%	231%	146%	-71%
JALNA	-100%	-100%	-100%	-35%	-100%	-21%	-15%	-36%	24%	323%	140%	-87%
KOLHAPUR	-100%	-100%	-84%	-57%	-99%	-15%	43%	134%	153%	153%	-72%	-79%
LATUR	-100%	-100%	-91%	-8%	-97%	-25%	-43%	-18%	-2%	163%	-17%	-100%
MUMBAI CITY	-100%	-100%	-100%	-100%	-100%	-37%	65%	-23%	181%	56%	39%	-65%
MUMBAI SUBURBAN	-100%	-100%	-100%	-100%	-100%	2%	77%	5%	241%	6%	654%	-67%
NAGPUR	25%	-100%	-63%	-78%	-100%	-52%	26%	12%	131%	-26%	-84%	-24%
NANDED	-100%	-100%	-99%	-58%	-100%	-53%	-4%	-9%	67%	171%	-1%	-100%
NANDURBAR						-66%	27%	182%	31%	-25%	76%	-100%
NASHIK	-100%	-100%	-100%	47%	-100%	-44%	93%	106%	70%	116%	82%	-39%
OSMANABAD	-100%	-100%	-96%	-14%	-100%	-20%	-31%	-22%	6%	194%	-55%	-100%
PALGHAR	-100%	-100%	-100%	-100%	-100%	-9%	76%	42%	204%	27%	251%	-25%
PARBHANI	-100%	-100%	-100%	-11%	-65%	-29%	-39%	-43%	68%	221%	68%	36%
PUNE	-100%	-100%	-100%	14%	-100%	10%	149%	137%	104%	167%	40%	-90%
RAIGAD	-100%	-100%	-100%	-97%	-100%	-6%	51%	39%	215%	94%	41%	-100%
RATNAGIRI	-100%	-100%	-100%	-66%	-100%	-12%	50%	34%	183%	69%	-47%	-100%
SANGLI	-100%	-100%	-70%	-38%	-75%	-31%	46%	105%	-2%	147%	-90%	-89%
SATARA	-100%	-100%	-100%	-51%	-100%	-14%	47%	133%	72%	160%	-67%	-91%
SHOLAPUR	-100%	-100%	223%	-23%	-91%	-49%	-36%	-66%	-15%	196%	-49%	-88%
SINDHUDURG	-100%	-100%	-100%	-92%	-99%	-6%	35%	64%	174%	236%	-70%	-100%
THANE						9%	76%	29%	206%	89%	151%	-100%
WARDHA	-12%	-100%	-100%	-56%	-100%	-53%	32%	1%	66%	-3%	-84%	-94%
WASHIM	-100%	-100%	-100%	15%	-100%	-45%	-14%	-44%	42%	59%	58%	-100%
YEOTMAL	-100%	-100%	-93%	-65%	-98%	-55%	-17%	-47%	8%	-51%	-13%	-85%
MANIPUR												
BISHNUPUR	-98%	-74%	-72%	-22%	-42%	-73%	-43%	-73%	-40%	-76%	-45%	-54%
CHANDEL	-81%	-21%	-10%	-65%	-84%	-79%	-85%	-83%	-68%	-80%	-74%	-1%

DISTRICT-WISE RAINFALL STATISTICS

CHURACHANDPUR	-90%	-63%	-29%	-66%	-67%	-50%	-60%	-70%	-46%	-87%	-28%	-44%
IMPHAL EAST	-95%	-64%	-80%	-72%	-62%	-75%	-62%	-71%	-15%	-31%	-5%	-38%
IMPHAL WEST	-100%	-36%	-39%	-7%	3%	-34%	16%	-21%	18%	-37%	-76%	-38%
SENAPATI					-65%	-38%	-47%	-52%	-12%	18%	-39%	7%
TAMENGLONG	-100%	-92%	-91%	-76%	-49%	-79%	-85%	-85%	-38%	-44%		
THOUBAL					-69%	-63%	-36%	-77%	25%	-37%	2%	-9%
UKHRUL	-80%	-72%	-41%	-7%	-53%	-64%	-12%	-59%	45%	77%	-11%	-37%
MEGHALAYA												
EAST GARO HILLS	-100%	217%	-28%	37%	142%	55%	184%	-45%	45%	230%	-38%	-100%
EAST KHASI HILLS	-99%	-3%	-85%	-30%	41%	4%	40%	-24%	77%	70%	-48%	-68%
JAINTIA HILLS					-67%	-67%	-16%	-76%	-56%	-9%	-85%	-68%
RI-BHOI	-82%	-11%	-51%	13%	-13%	-15%	-11%	-36%	16%	8%	9%	-57%
SOUTH GARO HILLS						49%	45%	-50%	35%	37%	-23%	-100%
WEST GARO HILLS	-73%	76%	-60%	0%	-15%	-51%	-22%	-64%	10%	-2%	-53%	-100%
WEST KHASI HILLS			-100%	206%	49%	-14%	-28%	-63%	12%	12%	10%	-100%
MIZORAM												
AIZWAL	-100%	45%	-58%	-31%	-35%	-48%	31%	-31%	-29%	-42%	37%	-63%
CHAMPHAI	-88%	39%	-85%	-56%		-35%	49%	-50%	-44%	-78%	3%	-100%
KOLASIB	-88%	-91%			24%	-16%	4%	22%	16%	-44%	83%	-100%
LAWNGTLAI					-12%	73%	-6%	5%	-41%	-50%	81%	
LUNGLEI	-100%	122%	-80%	-97%	-76%	-11%	185%	-59%	-72%	-55%	-52%	-88%
MAMIT					-68%	-26%	-44%	-18%	57%	54%	-61%	
SAIHA					-61%	-30%	25%	-27%	-1%	-68%	-36%	-100%
SERCHHIP	-100%	-97%	-99%	-78%		-39%	10%	-72%	-76%	-84%	-64%	-100%
NAGALAND												
DIMAPUR	-100%	-44%	-8%	-23%	3%	-38%	-31%	-41%	-23%	71%	8%	-79%
KEPHIRE	-30%	-24%	20%	-4%	-39%	-42%	-30%	-44%	75%	170%	56%	38%
KOHIMA	-63%	-45%	16%	-15%	-5%	-20%	-19%	-29%	-19%	43%	26%	-75%
LONGLENG	-54%	62%	-16%	-1%		-40%	-48%		14%	64%	6%	-100%
MOKOKCHUNG	-81%	48%	-5%	-12%	-1%	-33%	3%	-51%	47%	76%	50%	-88%
MON	-89%	-61%	4%	-4%	-1%	-53%	-49%	49%	83%	80%	-35%	-92%
PAREN	-61%	12%	-3%	-12%	-76%	0%	31%	74%	5%	116%	36%	-82%
PHEK	-59%	-41%	122%	72%	-39%	10%	-27%	-39%	59%	46%	35%	-70%
TUENSANG	1%	-29%	-19%	1%	-69%	-22%	-29%	-1%	43%	90%	18%	-64%
WOKHA	-66%	-63%	-50%	-26%	-63%	-82%	-27%	-44%	-3%	46%	-4%	-60%
ZUNHEBOTO	-49%	-36%	-60%	-19%	-53%	12%	-47%	-48%		9%	18%	-73%
ODISHA												
ANGUL	-97%	109%	9%	16%	26%	-34%	-31%	-11%	40%	80%	-100%	-48%
BALASORE	-100%	114%	-18%	20%	29%	-50%	-37%	-11%	14%	36%	136%	-65%
BARGARH	-89%	30%	162%	88%	-41%	-35%	4%	20%	109%	44%	-100%	-71%
BHADRAK	-100%	-34%	-34%	-13%	2%	-24%	-34%	20%	37%	41%	112%	-90%
BOLANGIR	-71%	-55%	44%	19%	-77%	-43%	-23%	68%	64%	-27%	-98%	-90%
BOUDHGARH	-83%	25%	56%	125%	-34%	-24%	-9%	29%	116%	78%	-100%	-100%
CUTTACK	-100%	61%	-32%	-12%	92%	-22%	8%	-9%	54%	113%	-66%	-100%
DEOGARH	-96%	124%	259%	95%	10%	-24%	-39%	-18%	37%	152%	-100%	-66%
DHENKANAL	-98%	57%	6%	10%	76%	8%	-29%	3%	59%	41%	-99%	-39%

DISTRICT-WISE RAINFALL STATISTICS

GAJAPATI	-100%	-88%	-35%	2%	10%	-70%	-29%	7%	44%	79%	-70%	-72%
GANJAM	-100%	-99%	-40%	25%	59%	-39%	4%	16%	108%	94%	-82%	-98%
JAGATSINGHPUR	-100%	-94%	-55%	-18%	2%	-19%	2%	-12%	96%	73%	68%	-78%
JAJPUR	-100%	-34%	-3%	23%	65%	-4%	-51%	13%	-9%	66%	-12%	-67%
JHARSUGUDA	-94%	132%	4%	117%	-20%	-23%	-19%	84%	101%	159%	-100%	-98%
KALAHANDI	-90%	-34%	-46%	-65%	-29%	-42%	-2%	45%	27%	67%	-62%	-100%
KANDHAMAL	-98%	9%	25%	-41%	-12%	-46%	-21%	55%	44%	41%	-73%	-77%
KENDRAPARA	-100%	-100%	28%	13%	-18%	-32%	-19%	8%	27%	49%	72%	-100%
KEONJHARGARH	-98%	157%	21%	-1%	38%	-39%	-22%	-15%	43%	74%	-99%	-33%
KHURDA	-100%	-14%	-20%	-22%	116%	-34%	10%	-16%	62%	132%	-93%	-100%
KORAPUT	-67%	-100%	-68%	-30%	8%	-3%	38%	37%	55%	111%	-4%	-89%
MALKANGIRI	-57%	-100%	-72%	-3%	-41%	-33%	-4%	66%	-9%	12%	-100%	-100%
MAYURBHANJ	-99%	278%	13%	108%	57%	-38%	-29%	22%	14%	64%	-56%	20%
NAWAPARA	-100%	149%	-7%	47%	-99%	-39%	-12%	14%	58%	6%	-43%	-100%
NAWARANGPUR	-56%	-67%	-91%	-6%	22%	-10%	23%	-9%	7%	-21%	-60%	-100%
NAYAGARH	-100%	59%	17%	-10%	101%	-46%	-11%	12%	108%	102%	-100%	-100%
PURI	-100%	-100%	-16%	-41%	87%	-4%	26%	-16%	111%	142%	-70%	-94%
RAYAGADA	-93%	-86%	-62%	-35%	-16%	-59%	-12%	67%	25%	106%	-96%	-86%
SAMBALPUR	-94%	46%	69%	-10%	-63%	-39%	-28%	14%	66%	107%	-100%	-89%
SONEPUR	-80%	42%	157%	161%	-28%	-20%	-13%	26%	115%	31%	-100%	-48%
SUNDARGARH	-57%	152%	140%	166%	-42%	-35%	-35%	24%	59%	226%	-100%	-60%
PUDUCHERRY (UT)												
KARAIKAL	-100%	-66%	-100%	-100%	-100%	-40%	-57%	9%	91%	23%	-27%	35%
MAHE			-100%	-82%		-36%	-2%	123%	75%	75%	-24%	718%
PUDUCHERRY	-100%	-100%	-100%	-96%	-62%	-76%	91%	60%	59%	-1%	-57%	-1%
YANAM				158%	-100%	-66%	23%	-33%	-8%	71%	-100%	-100%
PUNJAB												
AMRITSAR	-13%	158%	-84%	14%	-18%	-61%	-21%	-37%	-34%	-62%	565%	159%
BARNALA	16%	75%	-54%	-2%	17%	-78%	3%	-8%	-77%	636%	378%	111%
BHATINDA	56%	-22%	-12%	-31%	115%	0%	125%	-44%	-62%	98%	628%	50%
FARIDKOT	-72%	40%	-56%	201%	293%	-21%	15%	-31%	-9%	97%	684%	159%
FATEHGARH SAHIB	44%	111%	-66%	355%	-52%	46%	-5%	-14%	-48%	-100%	206%	0%
FEROZEPUR	-82%	41%	-68%	118%	89%	-75%	-19%	-60%	-88%	78%	213%	138%
GURDASPUR	97%	265%	-67%	3%	-23%	-70%	-12%	20%	72%	-54%	383%	196%
HOSHIARPUR	125%	295%	-72%	31%	-5%	-83%	-54%	10%	-12%	-19%	139%	161%
JALANDHAR	68%	100%	-72%	7%	-45%	-76%	-63%	15%	-13%	-99%	16%	218%
KAPURTHALA	21%	563%	-24%	-30%	77%	-72%	123%	206%	144%	-23%	813%	373%
LUDHIANA	133%	258%	-68%	79%	50%	0%	-3%	44%	-11%	-91%	416%	81%
MANSA	47%	-31%	-66%	216%	32%	-38%	74%	-79%	-99%	-46%	953%	32%
MOGA	-89%	172%	-62%	-59%	61%	-14%	34%	-85%	-21%	35%	770%	191%
MUKTSAR	-74%	71%	-81%	488%	93%	-20%	136%	-28%	-78%	-52%	1486%	-32%
NAWANSHAHAR	6%	250%	-79%	89%	39%	-54%	-12%	46%	-14%	20%	123%	141%
PATIALA	29%	156%	-24%	150%	-8%	-48%	58%	32%	47%	13%	919%	-51%
ROPAR	47%	282%	-72%	354%	-86%	-38%	-16%	25%	72%	10%	45%	246%
SANGRUR	7%	-7%	-35%	119%	5%	-51%	-12%	-39%	-68%	-92%	341%	49%
SAS NAGAR (MOHALI)	-51%	88%	-21%	16%	-90%	-70%	13%	20%	9%	-100%	155%	138%

DISTRICT-WISE RAINFALL STATISTICS

TARN TARAN	-24%	297%	-12%	81%	2%	-37%	45%	-35%	-11%	-23%	713%	328%
RAJASTHAN												
AJMER	261%	-93%	-96%	229%	-60%	-32%	90%	130%	27%	83%	-9%	256%
ALWAR	102%	-84%	-17%	316%	-56%	-43%	-21%	-32%	-48%	44%	-14%	-11%
BANSWARA	-100%	-100%	-100%	-100%	-100%	9%	-25%	35%	235%	207%	-94%	-33%
BARAN	-100%	109%	-100%	2458%	-25%	-41%	17%	79%	187%	-1%	-90%	-95%
BARMER	84%	-100%	-98%	-57%	267%	-21%	-5%	-7%	152%	192%	1127%	84%
BHARATPUR	279%	-7%	-33%	623%	-17%	-64%	10%	-17%	-5%	-46%	-48%	43%
BHILWARA	-71%	-61%	-96%	403%	-35%	21%	44%	118%	140%	-31%	-77%	-45%
BIKANER	-16%	-79%	-87%	49%	28%	-60%	-44%	53%	-2%	100%	1480%	219%
BUNDI	-100%	-100%	-100%	417%	-18%	13%	51%	130%	123%	-32%	-100%	-100%
CHITTORGARH	-42%	-94%	-100%	475%	-24%	59%	2%	99%	149%	101%	13%	-100%
CHURU	-64%	-95%	-72%	124%	74%	-51%	61%	25%	-53%	8%	1619%	131%
DAUSA	112%	-68%	-100%	292%	-46%	-25%	15%	32%	-26%	83%	-100%	-16%
DHOLPUR	403%	46%	35%	519%	-39%	1%	29%	-9%	46%	16%	278%	131%
DUNGARPUR	-100%	-100%	-100%	82%	-19%	94%	-20%	74%	181%	888%	-89%	-100%
HANUMANGARH	-90%	-51%	76%	491%	78%	-39%	-11%	-74%	-68%	-81%	944%	145%
JAIPUR	69%	-87%	-99%	218%	-67%	-49%	59%	56%	15%	0%	-49%	-30%
JAISALMER	1165%	-24%	-27%	-97%	154%	25%	-57%	6%	89%	519%	2722%	-98%
JALORE	-100%	-100%	-100%	-86%	52%	11%	-45%	91%	121%	62%	-25%	-43%
JHALAWAR	-98%	419%	-86%	1652%	-79%	-4%	17%	113%	325%	91%	-40%	-94%
JHUNJHUNU	-10%	-87%	-61%	40%	-58%	-22%	143%	19%	-44%	19%	237%	229%
JODHPUR	120%	-96%	-88%	-73%	72%	-13%	21%	101%	14%	111%	735%	28%
KARAULI	15%	-20%	-82%	339%	-31%	-28%	-9%	-25%	8%	-47%	229%	100%
KOTA	-100%	42%	-100%	1005%	-79%	-6%	36%	115%	166%	29%	-38%	-87%
NAGAUR	-28%	-88%	-100%	117%	-18%	-75%	40%	153%	-32%	266%	560%	22%
PALI	289%	-100%	-100%	-16%	45%	-50%	5%	142%	53%	-55%	-23%	187%
PRATAPGARH	-100%	-100%	-100%	633%	0%	93%	21%	69%	313%	442%	-74%	30%
RAJSAMAND	-100%	-100%	-100%	419%	5%	9%	30%	123%	68%	61%	-52%	-3%
SAWAI MADHOPUR	-56%	-75%	-92%	281%	-100%	24%	69%	45%	34%	-54%	-63%	107%
SIKAR	15%	-88%	-48%	83%	44%	-16%	141%	55%	16%	-71%	589%	123%
SIROHI	-85%	-83%	-100%	33%	78%	52%	-49%	77%	-3%	159%	-81%	-81%
SRI GANGANAGAR	-78%	-19%	-43%	240%	145%	-45%	-29%	-28%	5%	-56%	1148%	339%
TONK	-35%	-63%	-91%	210%	-77%	-16%	18%	86%	85%	4%	-81%	64%
UDAIPUR	58%	-100%	-100%	339%	38%	90%	-35%	127%	134%	583%	-64%	-82%
SIKKIM												
EAST SIKKIM	-92%	2%	27%	-9%	29%	-19%	33%	-18%	-4%	-52%	-87%	-29%
NORTH SIKKIM	-37%	3%	39%	-25%	52%	29%	41%	-5%	91%	-51%	-75%	21%
SOUTH SIKKIM	-85%	-24%	-39%	-3%	-22%	-58%	-16%	-70%	16%	-36%	-79%	-22%
WEST SIKKIM	-79%	23%	-28%	63%	-12%	-59%	30%	-24%	9%	-61%	-89%	36%
TAMILNADU												
ARIYALUR	-100%	-100%	-100%	-100%	-99%	-90%	64%	25%	139%	-9%	-21%	7%
CHENNAI	-99%	-90%	-100%	-100%	-100%	-15%	74%	-1%	66%	5%	-56%	30%
COIMBATORE	-88%	-88%	-93%	-65%	-52%	-74%	-76%	197%	51%	74%	-20%	7%
CUDDALORE	-98%	-90%	-100%	-99%	-87%	-48%	18%	6%	30%	0%	-22%	28%
DHARMAPURI	70%	-100%	-77%	-44%	-11%	6%	-26%	-1%	33%	2%	-41%	-19%

DISTRICT-WISE RAINFALL STATISTICS

DINDIGUL	-100%	-55%	-87%	-49%	-67%	-22%	-76%	-67%	33%	6%	-40%	-19%
ERODE	-71%	-100%	-98%	-55%	-27%	-9%	-59%	2%	22%	51%	-38%	-17%
KANCHEEPURAM	-99%	-98%	-99%	-82%	-87%	-41%	36%	-16%	-26%	27%	-33%	29%
KANYAKUMARI	-100%	-45%	-95%	-42%	-74%	-28%	-31%	128%	103%	42%	-56%	28%
KARUR	-100%	-100%	-97%	-76%	-51%	86%	-66%	-54%	41%	-6%	-46%	59%
KRISHNAGIRI	208%	-75%	-67%	28%	1%	-32%	-48%	1%	-17%	5%	-43%	12%
MADURAI	-58%	-96%	-98%	-67%	-45%	-53%	-57%	-19%	43%	-16%	-35%	-37%
NAGAPATTINAM	-99%	-92%	-98%	-100%	-100%	-88%	-26%	53%	109%	36%	-7%	26%
NAMAKKAL	-77%	-29%	-77%	-19%	-57%	-55%	-85%	-21%	25%	12%	-24%	-25%
NILGIRIS	-99%	-51%	30%	23%	-22%	-59%	-45%	202%	83%	134%	-24%	67%
PERAMBALUR	-100%	-100%	-100%	-98%	6%	-85%	-53%	58%	69%	-2%	-53%	-29%
PUDUKKOTTAI	-100%	-100%	-100%	-78%	-92%	-60%	-20%	-22%	67%	60%	6%	13%
RAMANATHAPURAM	-99%	-95%	-100%	-87%	-93%	-99%	-48%	26%	66%	109%	-12%	40%
SALEM	-45%	-62%	-85%	50%	-57%	-9%	-40%	4%	69%	-3%	-16%	-32%
SIVAGANGA	-100%	-76%	-100%	-88%	-79%	-51%	18%	49%	121%	48%	-26%	25%
THANJAVUR	-100%	-82%	-100%	-83%	-97%	-88%	-24%	-9%	106%	15%	-29%	4%
THENI	-99%	-37%	-54%	-29%	-21%	-25%	-21%	249%	46%	-3%	-27%	-24%
TIRUNELVELI	-85%	-44%	-69%	-31%	-46%	20%	-62%	333%	196%	70%	14%	67%
TIRUPPUR	-49%	-100%	-98%	-100%	-62%	132%	-76%	89%	-12%	-2%	-41%	24%
TIRUVALLUR	-99%	-97%	-98%	-89%	-82%	-49%	6%	29%	88%	44%	-72%	39%
TIRUVANNAMALAI	-99%	-93%	-100%	-19%	-59%	10%	115%	18%	62%	0%	-57%	-15%
TIRUVARUR	-100%	-97%	-100%	-79%	-100%	-93%	0%	56%	101%	18%	-32%	5%
TOOTHUKUDI	-91%	-82%	-100%	-84%	-81%	-27%	-97%	5%	121%	68%	-5%	47%
TRICHY	-100%	-100%	-100%	-66%	-60%	-89%	-57%	-6%	44%	-4%	-33%	-8%
VELLORE	-71%	-93%	-84%	-93%	-50%	-17%	28%	41%	0%	-6%	-65%	3%
VILLUPURAM	-100%	-100%	-100%	-97%	-56%	-49%	41%	-6%	32%	7%	-46%	3%
VIRUDHUNAGAR	-53%	-79%	-80%	-99%	-90%	38%	-63%	87%	109%	19%	-30%	-4%
TELANGANA												
ADILABAD	-84%	-96%	-86%	-62%	-100%	-36%	23%	-9%	26%	2%	-83%	-95%
B. KOTHAGUDEM	76%	-100%	-67%	-40%	-42%	-64%	-6%	60%	71%	73%	-36%	-43%
HYDERABAD	15%	-80%	-100%	66%	-55%	11%	-49%	-17%	116%	37%	-96%	-23%
J. BHUPALPALLY	236%	-83%	-100%	5%	-63%	-43%	6%	51%	22%	192%	-9%	-30%
JAGTIAL	198%	-1%	-64%	-81%	-91%	1%	5%	20%	61%	94%	-83%	-96%
JANGAON	277%	-68%	-100%	363%	-66%	4%	-23%	18%	55%	142%	-82%	7%
JOGULAMBA GADWAL	8700%	-100%	-100%	83%	-89%	-43%	-28%	-46%	34%	10%	-100%	-65%
KAMAREDDY	-51%	-53%	-99%	-86%	-70%	-17%	6%	-7%	94%	97%	-42%	-100%
KARIMNAGAR	312%	-36%	-69%	-64%	-86%	6%	21%	13%	126%	206%	-29%	-98%
KHAMMAM	513%	-100%	-22%	-77%	-37%	-73%	-23%	-1%	34%	17%	-63%	-16%
KUMARAM BHEEM	165%	-35%	-79%	-21%	-68%	-19%	36%	39%	48%	23%	-17%	-79%
M. MALKAJGIRI	25%	-72%	-98%	-43%	6%	-29%	-7%	-19%	30%	80%	-95%	-86%
MAHABUBABAD	566%	-75%	-86%	-32%	-29%	-55%	-18%	45%	57%	87%	-4%	-15%
MAHABUBNAGAR	239%	-100%	-100%	-72%	-66%	-25%	-7%	-27%	27%	51%	-83%	2%
MANCHERIAL	74%	-99%	118%	-71%	-94%	-39%	-7%	34%	44%	52%	48%	-95%
MEDAK	89%	-82%	-91%	-68%	-62%	-21%	-24%	-3%	67%	36%	-74%	-83%
NAGARKURNOOL	2021%	-100%	-100%	-55%	-12%	-9%	-11%	-20%	20%	37%	-77%	-73%
NALGONDA	400%	-100%	-98%	7%	-77%	-55%	-40%	-17%	34%	25%	-100%	22%

DISTRICT-WISE RAINFALL STATISTICS

NIRMAL	-88%	-94%	-51%	-72%	-100%	-37%	-9%	-2%	63%	84%	-69%	-97%
NIZAMABAD	-94%	-63%	-99%	-96%	-91%	-30%	6%	8%	121%	76%	39%	-97%
PEDDAPALLE	235%	59%	-97%	-60%	-99%	-51%	-9%	42%	89%	114%	-92%	-87%
RAJANNA SIRCILLA	384%	56%	-100%	-60%	-66%	-61%	27%	18%	139%	136%	-56%	-100%
RANGAREDDY	322%	-96%	-98%	139%	-75%	-21%	-49%	-11%	7%	38%	-83%	-22%
SANGAREDDY	133%	-100%	-100%	-57%	-72%	-23%	-55%	-4%	5%	30%	-43%	-98%
SIDDIPET	269%	-93%	-97%	30%	-81%	-17%	-3%	-6%	81%	183%	-94%	-96%
SURYAPET	388%	-97%	-100%	54%	-61%	-50%	-13%	-6%	28%	35%	-98%	-1%
VIKARABAD	-90%	-100%	-100%	-83%	-68%	-18%	-59%	9%	-20%	27%	-71%	-87%
WANAPARTHY	1082%	-100%	-100%	-63%	-74%	-43%	10%	4%	36%	31%	-16%	-100%
WARANGAL_RURAL	25%	-53%	-100%	-41%	-44%	-47%	-17%	27%	46%	222%	-57%	-28%
WARANGAL_URBAN	293%	-80%	-100%	280%	-45%	-35%	29%	66%	78%	213%	-51%	-82%
Y. BHUVANAGIRI	29%	-76%	-100%	104%	-63%	-42%	-8%	0%	75%	101%	-99%	-62%
TRIPURA												
DHALAI	-100%	23%	-56%	-18%	0%	-13%	83%	-40%	11%	15%	-9%	-91%
NORTH TRIPURA	-100%	39%	-62%	29%	13%	-4%	74%	-52%	-26%	94%	-13%	-77%
SOUTH TRIPURA	-100%	77%	-81%	-18%	-39%	-64%	37%	-42%	-4%	-30%	122%	-65%
WEST TRIPURA	-100%	159%	-28%	-10%	-43%	-39%	46%	-35%	-20%	-30%	-2%	-46%
UTTAR PRADESH												
AGRA	46%	55%	-23%	159%	-78%	-70%	5%	-30%	2%	-39%	244%	179%
ALIGARH	45%	12%	135%	111%	-49%	-88%	-52%	-29%	-18%	-96%	-54%	199%
ALLAHABAD	-34%	-52%	-68%	-68%	-92%	-81%	16%	8%	107%	118%	-100%	244%
AMBEDKAR NAGAR	42%	-69%	-100%	-100%	-100%	-68%	120%	-36%	101%	-100%	-100%	132%
AMETHI	35%	-17%	45%	-70%	-100%	-59%	-13%	-9%	110%	-69%	-100%	97%
AURAIYA	-80%	-63%	-35%	58%	-100%	14%	-50%	-16%	27%	-31%	-43%	-17%
AZAMGARH	-45%	81%	-49%	-100%	-100%	-71%	-17%	-67%	140%	-62%	-100%	133%
BADAUN	31%	22%	-17%	313%	-80%	-87%	-17%	-64%	-50%	-100%	83%	391%
BAGHPAT	120%	137%	-62%	-81%	-31%	-91%	22%	-57%	-100%	-13%	593%	485%
BAHRAICH	78%	307%	-52%	-21%	-96%	-20%	59%	-34%	4%	-96%	-100%	317%
BALLIA	-23%	-48%	0%	-81%	-80%	-22%	78%	-43%	152%	-36%	-100%	367%
BALRAMPUR	18%	23%	-80%	-100%	-87%	171%	60%	-48%	54%	-100%	-100%	
BANDA	-67%	-67%	-100%	43%	-98%	-87%	60%	-27%	70%	107%	-100%	-5%
BARABANKI	66%	97%	-56%	-79%	-100%	-64%	68%	13%	109%	-70%	-100%	145%
BAREILLY	25%	72%	2%	65%	-97%	-16%	38%	-29%	-35%	-100%	865%	896%
BASTI	163%	199%	-36%	48%	-100%	-68%	127%	-13%	114%	-96%	-100%	342%
BIJNOR	151%	167%	-77%	40%	-93%	-87%	25%	-21%	-32%	-99%	442%	337%
BULANDSHAHAR	69%	90%	5%	46%	-26%	-97%	-52%	-33%	-49%	-90%	-56%	237%
CHANDAULI	-59%	-37%	-71%	-78%	-100%	-82%	0%	-40%	94%	280%	-100%	1224%
CHITRAKOOT	-3%	-34%	-82%	-50%	-100%	-86%	48%	24%	-15%	314%	-100%	300%
DEORIA	18%	95%	-45%	54%	-100%	-17%	21%	-70%	46%	-95%	-100%	650%
ETAH	86%	5%	63%	19%	-97%	-84%	18%	9%	-1%	-100%	374%	892%
ETAWAH	-100%	113%	-67%	5%	-100%	-42%	6%	-44%	-27%	-51%	385%	-39%
FAIZABAD	92%	-16%	-100%	-77%	-100%	-35%	33%	-29%	57%	-95%	-100%	106%
FARRUKHABAD	-72%	5%	15%	-31%	-100%	-75%	10%	-70%	-14%	-90%	300%	922%
FATEHPUR	-39%	-5%	-72%	-19%	-82%	-74%	-32%	-47%	32%	33%	-100%	92%
FIROZABAD	203%	-30%	21%	106%	-95%	-98%	-41%	-18%	-10%	-100%	388%	453%

DISTRICT-WISE RAINFALL STATISTICS

District												
GAUTAM BUDDHA NAGAR	496%	240%	169%	-100%	608%	-70%	5%	-28%	-42%	150%	264%	1900%
GHAZIABAD	62%	41%	-52%	-56%	39%	-92%	-62%	-74%	-81%	-56%	-36%	-27%
GHAZIPUR	-50%	11%	38%	-90%	-99%	10%	26%	-46%	57%	-29%	-100%	751%
GONDA	109%	459%	-39%	-34%	-100%	-35%	14%	-55%	44%	-96%	-100%	86%
GORAKHPUR	-36%	100%	-81%	-72%	-84%	-62%	56%	-62%	68%	-92%	-100%	37%
HAMIRPUR	-26%	61%	-94%	153%	-72%	21%	28%	15%	40%	96%	-100%	108%
HAPUR	102%	-33%	-82%	-100%	-44%	-86%	-50%	-19%	-73%	-100%	129%	625%
HARDOI	-78%	99%	-83%	29%	-97%	-54%	10%	-13%	-38%	-96%	3%	560%
JALAUN	10%	95%	-100%	-45%	-28%	-56%	-20%	-21%	-8%	-36%	-100%	89%
JAUNPUR	-61%	-61%	-53%	-100%	-96%	-81%	-14%	-57%	63%	-46%	-100%	-10%
JHANSI	35%	-26%	-94%	34%	-32%	-73%	-7%	-38%	21%	78%	-100%	22%
JYOTIBA PHULE NAGAR	-34%	-26%	-100%	233%	-100%	-63%	-50%	-77%	2%	-100%	167%	381%
KANNAUJ	-100%	159%	119%	17%	-100%	-56%	0%	-25%	88%	-93%	1026%	856%
KANPUR CITY	148%	161%	18%	-18%	-82%	-38%	24%	-34%	35%	-47%	-90%	117%
KANPUR DEHAT	-68%	-15%	-75%	-100%	-100%	-87%	-58%	-65%	-40%	-56%	-100%	-33%
KANSHIRAM NAGAR	76%	155%	82%	76%	-100%	-98%	39%	-29%	-40%	-100%	-100%	57%
KAUSHAMBI	40%	-51%	-100%	-100%	-100%	-100%	-8%	-41%	172%	296%	-100%	90%
KHERI	-66%	152%	-15%	-100%	-52%	-70%	8%	-73%	-61%	-99%	424%	531%
KUSHI NAGAR	-53%	78%	-81%	-39%	-100%	-3%	22%	-87%	-17%	-98%	-100%	7%
LALITPUR	-100%	-28%	-100%	-100%	36%	-66%	-2%	30%	25%	36%	-100%	116%
LUCKNOW	59%	84%	-70%	-47%	-100%	-83%	69%	-14%	60%	-87%	-100%	100%
MAHAMAYA NAGAR	-100%		280%	71%	-37%	-100%	15%	-13%	-44%	-100%	-100%	181%
MAHARAJGANJ	-21%	167%	-94%	-42%	-83%	-49%	-20%	-79%	2%	-100%	-100%	161%
MAHOBA	-100%	-71%	-100%	71%	-70%	-63%	-48%	-13%	21%	86%	-100%	221%
MAINPURI	-48%	56%	-72%	11%	-100%	-62%	-30%	-72%	-35%	-100%	31%	332%
MATHURA	144%	-66%	-100%	173%	-100%	-100%	-33%	-55%	-11%	73%	-100%	-46%
MAU	-100%	-16%	-100%	-100%	-100%	-78%	6%	-76%	35%	-46%	-100%	319%
MEERUT	95%	95%	-61%	-66%	-61%	-97%	-7%	-32%	-51%	-75%	1022%	128%
MIRZAPUR	-73%	-55%	12%	-29%	-70%	-56%	79%	-9%	183%	86%	-100%	150%
MORADABAD	26%	71%	-17%	111%	-84%	-34%	-11%	-49%	32%	-92%	737%	1082%
MUZAFFARNAGAR	57%	95%	-71%	98%	-65%	-98%	-7%	28%	-98%	-100%	1147%	207%
PILIBHIT	-36%	84%	-43%	-79%	-100%	-78%	-43%	-61%	-74%	-76%	394%	546%
PRATAPGARH	120%	-22%	67%	-55%	-100%	-17%	7%	-22%	206%	203%	-100%	364%
RAE BAREILLY	-73%	-60%	-50%	-100%	-100%	-82%	-10%	-35%	52%	-48%	-100%	-54%
RAMPUR	-15%	42%	-68%	28%	-100%	-48%	-27%	-61%	-39%	-93%	-71%	617%
SAHARANPUR	5%	30%	-77%	-54%	-91%	-99%	0%	-14%	-67%	-100%	-21%	-3%
SAMBHAL			29%	252%	-100%	-100%	-2%	-51%	-5%	-100%	605%	1691%
SANT KABIR NAGAR	81%	18%	-56%	344%	-100%	-73%	84%	-67%	62%	-90%	-100%	-97%
SANT RAVIDAS NAGAR	231%	110%	-32%	-100%	-100%	-100%	25%	-24%	346%	689%	-100%	547%
SHAHJAHANPUR	-65%	57%	4%	-56%	-92%	-55%	37%	-55%	-43%	-100%	259%	1077%
SHAMLI	-69%	47%	-100%	-100%	-85%	-91%	-63%	-63%	-100%	-100%	241%	-14%
SHRAWASTI NAGAR	-13%	56%	-81%	-17%	-100%	44%	106%	-42%	-26%	-100%	-100%	
SIDDHARTH NAGAR	-3%	-83%	-37%	-91%	-100%	-74%	17%	-53%	57%	-100%	-100%	-61%
SITAPUR	4%	247%	-35%	-11%	-100%	-68%	9%	-42%	-55%	-99%	-73%	197%
SONBHADRA	-60%	-62%	241%	-75%	-93%	-75%	-1%	-2%	106%	97%	-100%	243%

DISTRICT-WISE RAINFALL STATISTICS

DISTRICT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SULTANPUR	119%	97%	46%	-58%	-76%	-29%	28%	-39%	45%	-69%	-100%	317%
UNNAO	-15%	150%	-66%	-74%	-100%	-78%	-17%	-36%	1%	-57%	-100%	117%
VARANASI	-9%	-49%	-21%	-30%	-96%	-74%	8%	-10%	107%	41%	-100%	505%
UTTARAKHAND												
ALMORA	46%	131%	-51%	-12%	-61%	-49%	-34%	10%	1%	60%	288%	217%
BAGESHWAR	52%	134%	-55%	36%	-72%	-45%	-10%	99%	128%	26%	91%	192%
CHAMOLI	104%	111%	-32%	18%	-41%	-50%	-22%	35%	60%	22%	296%	186%
CHAMPAWAT	14%	79%	-63%	-57%	-77%	-54%	-43%	-8%	28%	-96%	38%	266%
DEHRADUN	79%	101%	-20%	10%	-52%	-50%	-39%	-33%	22%	-38%	125%	73%
GARHWAL PAURI	60%	94%	-71%	-47%	-75%	-86%	-52%	-29%	-14%	-8%	528%	254%
GARHWAL TEHRI	124%	196%	-33%	18%	-76%	-50%	-44%	-33%	-13%	35%	263%	191%
HARDWAR	95%	27%	-86%	-6%	-78%	-82%	-21%	-26%	-10%	-60%	183%	145%
NAINITAL	13%	135%	-38%	-7%	-62%	-42%	1%	-17%	10%	52%	305%	365%
PITHORAGARH	109%	138%	-30%	75%	-58%	-48%	-22%	-3%	48%	-32%	-36%	153%
RUDRAPRAYAG	80%	118%	-57%	32%	-64%	-51%	-33%	-1%	30%	-23%	362%	119%
UDHAM SINGH NAGAR	-45%	87%	-42%	7%	-99%	-10%	-13%	-29%	27%	-82%	859%	591%
UTTARKASHI	122%	69%	-31%	-23%	-40%	-59%	-41%	-22%	-30%	-6%	430%	356%
WEST BENGAL												
BANKURA	-100%	127%	-9%	49%	126%	-54%	-34%	0%	7%	45%	-2%	17%
BIRBHUM	-99%	54%	-21%	35%	46%	-70%	-27%	-39%	-12%	78%	-97%	-74%
BURDWAN	-100%	270%	-24%	28%	78%	-58%	-30%	-15%	-4%	93%	155%	122%
COOCH BEHAR	-95%	-4%	18%	32%	-4%	-37%	22%	-59%	-15%	-31%	-7%	-100%
DARJEELING	-98%	24%	15%	2%	-48%	-55%	25%	-21%	56%	-49%	-56%	-74%
EAST MIDNAPORE	-100%	511%	-21%	13%	-42%	-48%	-55%	22%	24%	99%	309%	56%
HOOGHLY	-100%	241%	14%	38%	3%	-56%	-44%	-2%	-14%	18%	264%	119%
HOWRAH	-100%	598%	2%	-21%	-49%	-64%	-50%	58%	2%	-12%	220%	-24%
JALPAIGURI	-92%	-4%	5%	-14%	-20%	-11%	31%	-54%	28%	-27%	-81%	-62%
KOLKATA	-100%	548%	99%	7%	-28%	-68%	-58%	57%	24%	-14%	295%	26%
MALDA	-100%	237%	-75%	94%	6%	-56%	11%	-62%	30%	20%	-100%	-81%
MURSHIDABAD	-100%	121%	-7%	22%	53%	-61%	-22%	-60%	-25%	45%	-73%	-95%
NADIA	-100%	423%	3%	37%	-11%	-64%	-36%	7%	-16%	48%	400%	125%
NORTH 24 PARGANAS	-100%	547%	132%	12%	-36%	-66%	-38%	24%	7%	37%	269%	12%
NORTH DINAJPUR	-100%	223%	-51%	175%	-61%	-34%	-16%	-56%	-1%	-49%	-100%	-100%
PURULIA	-99%	46%	8%	40%	73%	-59%	-17%	12%	19%	84%	-99%	156%
SOUTH 24 PARGANAS	-100%	611%	110%	5%	-40%	-56%	-47%	27%	9%	16%	280%	-5%
SOUTH DINAJPUR	-100%	29%	-77%	24%	-33%	-51%	3%	-44%	13%	42%	-100%	-41%
WEST MIDNAPORE	-100%	368%	63%	18%	-3%	-50%	-34%	22%	33%	10%	158%	41%

The statistics and chart for categorywise distribution of districts for different months have been given at Table 29 and Figure 85 respectively. The districtwise rainfall distribution both spatially and temporally differ from subdivisionwise or statewise rainfall distribution.

Table 29: Category-wise Number of Districts - Monthly - Year 2019

CATEGORY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
L. EXCESS	6	50	62	193	119	80	48	46	78	9	40	164
EXCESS	5	29	29	75	72	110	107	82	62	20	27	34
NORMAL	10	54	33	107	104	175	249	187	128	56	45	37

DEFICIENT	37	102	75	105	149	201	221	291	232	100	81	57
L. DEFICIENT	169	177	212	75	115	91	37	58	162	280	132	143
NO RAIN	424	239	240	98	93	0	0	0	0	204	339	229
NO DATA	30	30	30	28	29	24	19	17	19	12	17	17
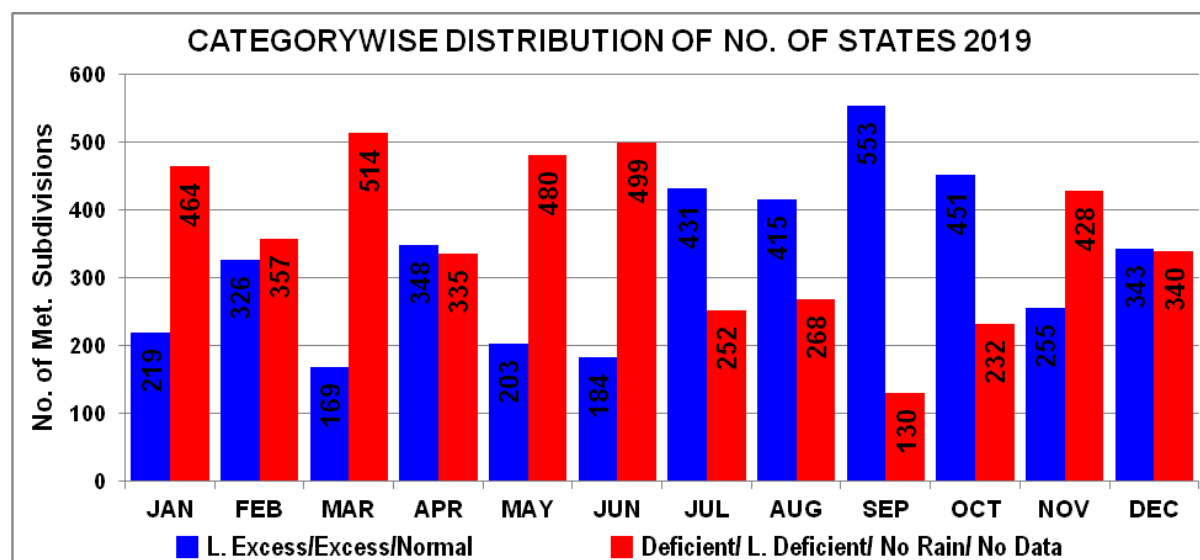
Figure 85: Monthly Distribution of no. of Districts in different categories – 2018

7. *ANNUAL AND MONSOON RAINFALL FROM 2000 TO 2019*

The annual and monsoon rainfall and their respective departures from normal rainfall from the years 2000 to 2019 are shown in Table 30 and Figure 86 through Figure 89. Of the last 20 years, 2019 has proved to be the best year in terms of actual observed rainfall both annually and for the SW Monsoon season.

Year 2019 reported   maximum +ve % departures from Normal both annually and for the Monsoon season (110% of LPA) along with the highest area weighted rainfall of 1288.8 mms and 971mms respectively for the year and for the SW Monsoon season respectively. Till 2019, though 18 years have been declared as Normal Monsoon year with but annually +ve % departures were reported only in four years viz 2005 ,2010, 2013, and 2019 and Monsoon season wise in the years 2003,. 2007, 2010, 2013 and 2019.

Table 30: SW Monsoon and Annual Rainfall (2000-2019)

YEAR	SW – MONSOON RAINFALL (mm)		ANNUAL RAINFALL (mm)	
	RAINFALL	% DEPARTURE	RAINFALL	% DEPARTURE
2000	798.1	-10%	1035.4	-13%
2001	818.8	-8%	1100.7	-7%
2002	700.5	-21%	935.9	-21%
2003	902.9	2%	1187.3	0%
2004	807.1	-9%	1106.5	-7%
2005	874.3	-1%	1208.3	2%
2006	889.3	0%	1161.6	-2%
2007	943.0	6%	1179.3	-1%
2008	877.8	-1%	1118.0	-6%
2009	698.3	-21%	953.7	-20%
2010	911.1	3%	1215.5	2%
2011	901.3	2%	1116.3	-6%
2012	823.9	-7%	1054.7	-11%

2013	937.4	6%	1242.6	5%
2014	781.7	-12%	1044.7	-12%
2015	765.8	-14%	1085.0	-9%
2016	864.4	-3%	1083.2	-9%
2017	845.9	-5%	1127.1	-5%
2018	804.1	-9%	1020.8	-14%
2019	971.	10%	1288.8	10%
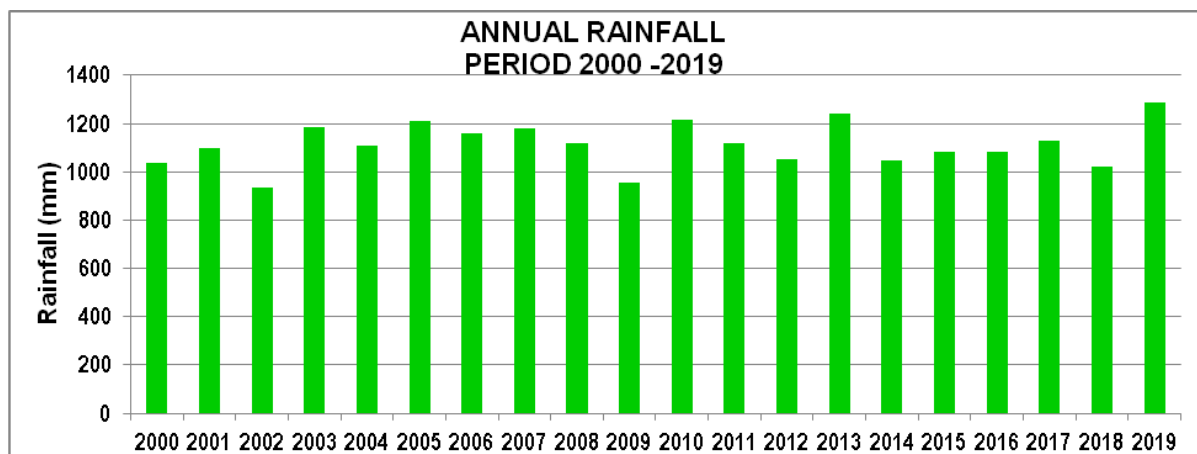
Figure 86: Annual Rainfall 2000-2019
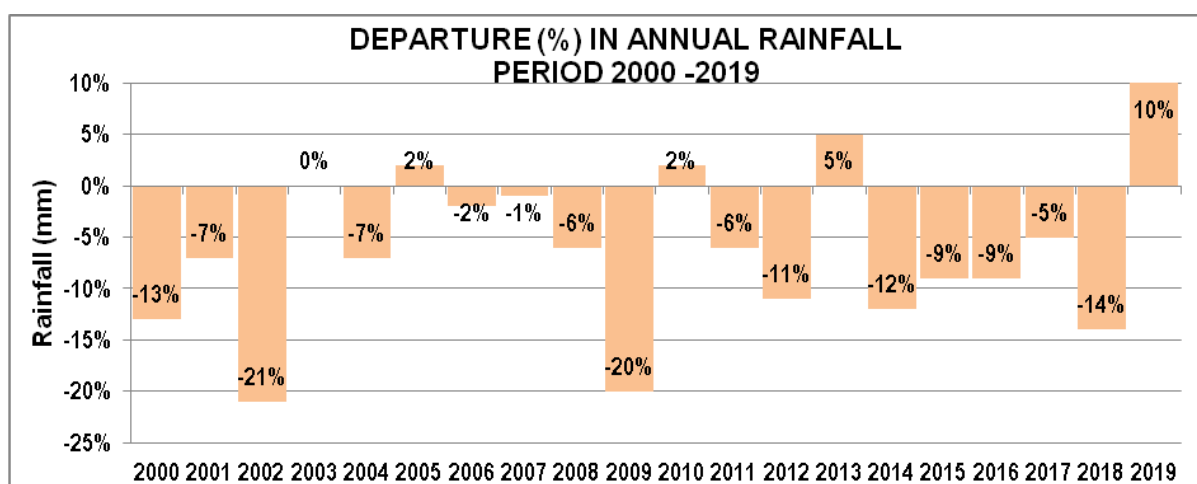
Figure 87: % Departures of Annual Rainfall 2000 – 2019

During last 20 years, the country received Monsoon rainfall of 21% or less of its normal rainfall. Southwest Monsoon Rainfall has also recorded highest rainfall of 971.0 mm (+10% of LPA) since 2000.

EXTREME RAINFALL EVENTS

SOUTHWEST MONSOON RAINFALL PERIOD 2000 -2019

Figure showing SW Monsoon Rainfall bar chart 2000-2019 with Rainfall (mm) on y-axis from 0 to 1000.
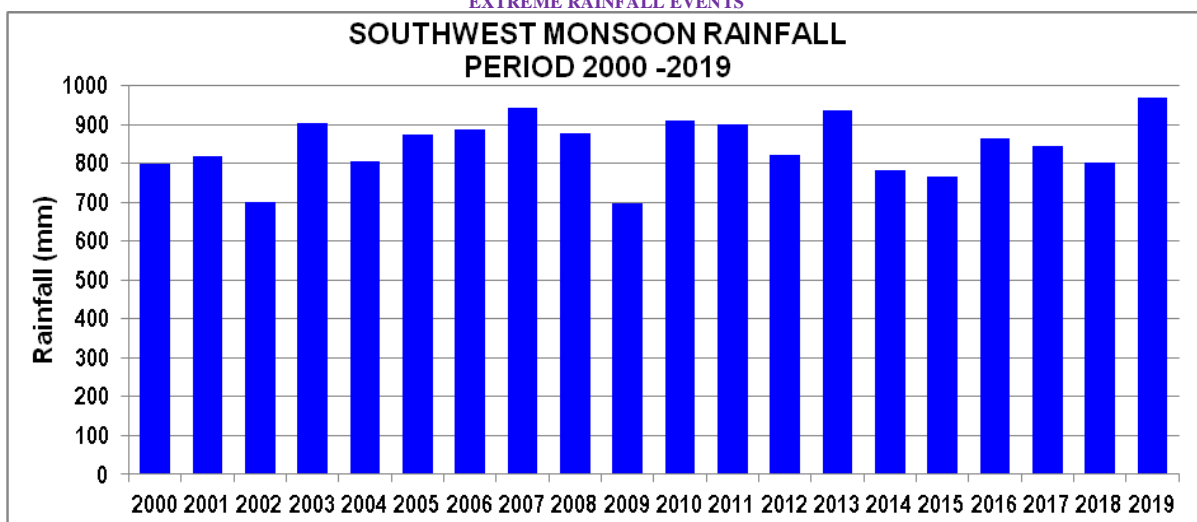
Figure 88: SW Monsoon Rainfall 2000-2019

DEPARTURE (%) IN SW MONSOON RAINFALL PERIOD (2000-2019)

Figure showing % Departure bar chart with values: -10% (2000), -8% (2001), -21% (2002), 2% (2003), -9% (2004), -1% (2005), 0% (2006), 6% (2007), -1% (2008), -21% (2009), 3% (2010), 2% (2011), -7% (2012), 6% (2013), -12% (2014), -14% (2015), -3% (2016), -5% (2017), -9% (2018), 10% (2019).
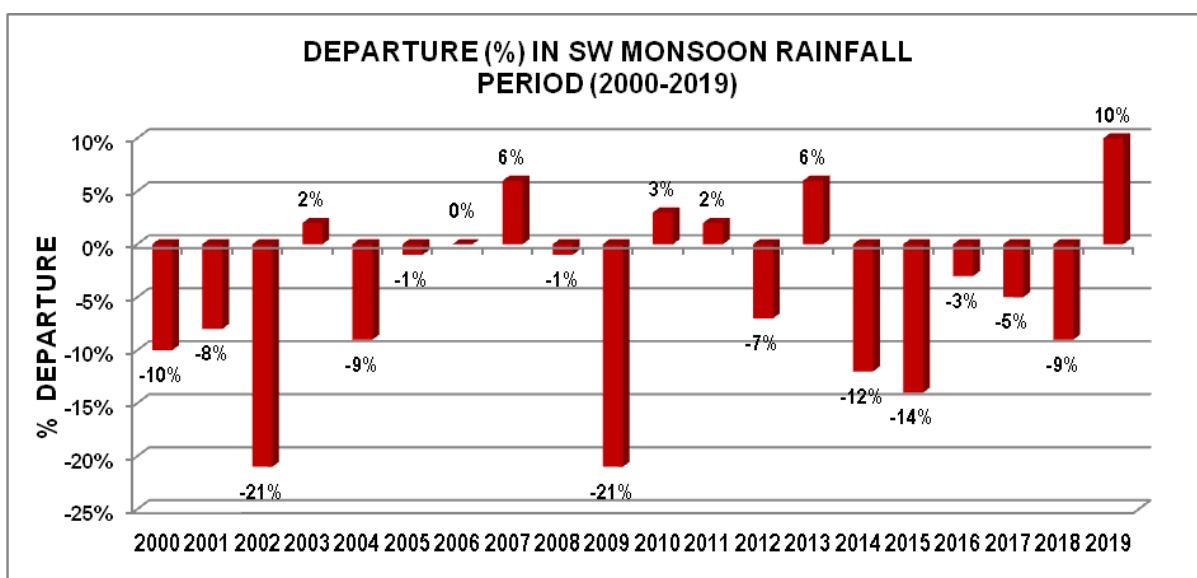
Figure 89: % Departures of SW Monsoon Rainfall 2000 – 2019

8. *EXTREME RAINFALL EVENTS*

An extreme rainfall event is one in which 204.5 mm (21 cms) or more of rain falls over a region within 24 hours.

There has been an increasing trend in the high impact rainfall events especially during the last decade. Some of the watershed events have happened during this period. Chennai (2015), Kedarnath (2013), Kerela (2018) and Mumbai (2018) floods were characterized by torrential downpour leading to Flash Floods in the region. The Indian southwest monsoon from June to September has some intra-seasonal oscillations and these oscillations are sometimes associated with very intense rain episodes over different parts of India leading to significant impact which are both

visible (Losses in terms of Life and property) and non-visible impacts (social and psychological). India has experienced more "<u>extreme rainfall events</u>" in 2019 as compared to 2018 which reported only 92 such events. An analysis of daily rainfall between 1901 and 2010 by the Indian Institute of Tropical Meteorology (IITM), Pune, showed a decadal increase of about 6% in "extreme rainfall", events with the frequency increasing post-1981. Table 31 shows the extreme rainfall events during the Year 2019 along with the places where such events have occurred with rainfall amount in CM..

The frequency of the occurrences of extreme rainfall events pan India shows a peak of 255 extreme events (r/f>=21cms), occurring in the month of Aug spread over 19 days followed by the month of July with 143 events spread over a period of 24 days making Aug as the most active month for such activities Fig (89 & 90). These events have shown a high rate of occurrences over Central India (Fig 91). South India followed by East and North East region with minimum occurrence over Northwest region.

Table 31: SW Monsoon and Annual Rainfall (2000-2019)

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
1.	January	Nil	
2.	Feb	Nil	
3.	March	Nil	
4.	April	Nil	
5.	May	3	**Odisha**: Behrampur - 30
		5	**NMMT**: Cherrapunji(Rkm)-41, Cherrapunji- 28, Mawsynram- 33
		24	**NMMT**: Kailasahar -25
6.	June	04	**Assam & Meghalaya:** Cherrapunji(RKM)-21
		10	**A & N Islands**: Long Islands ()-21
		13	**A & N Islands**: Long Island-31,
		16	**SHWB & Sikkim**: Mangan-26, Sankalan-22
		17	**NMMT**: Cherrapunji(RKM)-40, Mawsynram-38, Cherrapunji-36,
		19	**East Rajasthan:** Pratapgarh-28
		25	**SHWB & Sikkim:** Buxaduar-31, **West Uttar Pradesh:** Baheri-31
		26	**Assam & Meghalaya:** Gossaigaon-32, Kokrajhar-30, Williamnagar-23, Melabazar/Matunga-2, **SHWB & Sikkim:** Alipurduar (PTO)-41, Alipurduar (CWC)-41, Kumargram-33, Barobhisha-27, Hasimara-25, Chepan-24,
		27	**Assam & Meghalaya** : Cherrapunji(Rkm)-31, Cherrapunji-29, Williamnagar-23
		28	**Assam & Meghalaya:** Mawsynram-33, Cherrapunji-31, Cherrapunji(Rkm)-26

EXTREME RAINFALL EVENTS

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
		29	**Gujarat Region:** Vapi-31; **Konkan & Goa:** Palgharagri-45, Matheran-35, Khalapur-33, Vasai-32, Karjatagri-29, Pen-28, Panvelagri-27, Bhira Imd Part Time-27, Bhiwandi-25, Roha-24, Kalyan-24, Santacruz Imd Obsy-23, Thane-23, Dahanu Imd Obsy-21, Ulhasnagar-21, **Madhya Maharashtra:** Lonavalaagri-33
		30	**Gujarat Region:** Khergam-26 **Konkan & Goa:** Tala-23, Bhiwandi-21, Shriwardhan-21
7	July	01	**Gujarat Region:** Umergam-29, Daman-28, Valsad-28, Pardi-25, Vapi-23, Madhbun-23, Silvassa-21, Khergam-21, **Konkan & Goa:** Palgharagri-34, Dahanu Imd Obsy-30, Talasari-29, Panvelagri-21
		2nd	**Konkan & Goa:** Palgharagri-38, Santacruz Imd Obsy-37, Vasai-32, Thane-28, Mangaon-27, Mhasla-26, Tala-23, Panvelagri-23, Uran-23, Pen-21
		3rd	**NMMT** :Lunglei-21
		06	**East Uttar Pradesh:** Bhinga-23, **Gujarat Region** Umerpada-22, **Konkan & Goa:** Matheran-21
		07	**Assam & Meghalaya:** Cherrapunji (Rkm)-21, **East Uttar Pradesh:** Neemsar-22, **Gujarat Region:** Vapi-38, Da man Fmo-30, Silvassa-30, Daman-24, Khanvel-22, Kaprada-21, Valsad-21, Madhbun-21, **Konkan & Goa:** Wada-23, **Madhya Maharashtra:** Mahabaleshwar-24,
		8	**Gujarat Region:** Khanvel-31, Umergam-24, **Konkan & Goa:** Talasari-22,
		09	**Assam & Meghalaya:** Cherrapunji (Rkm)-38, Cherrapunji-33, Williamnagar-23, **Bihar** Parbatta-22,
		10	**Assam & Meghalaya:** Cherrapunji (Rkm)**-39,** Cherrapunji-26, Assam & Meghalaya Kumargram-26, **Bihar:** Murliganj-23, **SHWB & Sikkim** Basti Cwc-24, Ayoadhya-22, **East Uttar Pradesh:** Maudaha-22, **West Uttar Pradesh**
		11	**Assam &Meghalaya:** Cherrapunji (Rkm)-40, Cherrapunji-37, Mawsynram-33 **SHWB & Sikkim:** Khliehriat-23, Bagrakote-23, Sevoke-22, **East Uttar Pradesh:** Jaunpur Tehsil-26, Ballia Obsy-25, Jaunpur Cwc-22, **Konkan & Goa**: Matheran-23, Sanguem-22, Quepem-21, Pen-21, **Madhya Maharashtra:** Lonavala-Agri-29
		12	**Assam & Meghalaya: -**Mawsynram-23, **Bihar: -** Lalbegiaghat-36, Dhengbridge-32, Motihari-28, Minapur-28, Maharajganj-27, Taibpur-26, Darauli-25, Pachrukhi-24, Patahi-24, Sahebganj-24, Thakurganj-22,
		13	**Bihar:** Sonbarsa-25, Jainagar-23
		14	**Bihar:** Taibpur-24
		15	**Assam &Meghalaya:** Abhayapuri Aws-23, Bahalpur-22, Cherrapunji-21
		17	**Konkan & Goa:** Vengurla - Imd Pt-23
		20	**Kerala & Mahe** : Kudulu-31, Hosdurg-28, Kannur-22, Mahe-21,
		22	**Assam & Meghalaya:** Gossaigaon-30 **SHWB & Sikkim:** Alipurduar (Pto)-27, Alipurduar (Cwc)-27, Chepan-21, Barobhisha-21,

EXTREME RAINFALL EVENTS

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
		23	**Assam & Meghalaya:** Gossaigaon-35, Beki Mathungari-29, Kajolgaon-28, Williamnagar-23, Panbari-22, Cherrapunji-21,**SHWB & Sikkim:** Buxaduar-28,**Konkan & Goa:** Ratnagiri - Imd Obsy-28, Rajapur-25,**Coastal Karnataka:** Bhatkal-23, Kollur-21
		24	**Assam & Meghalaya:** Gossaigaon-27 **SHWB & Sikkim:** Barobhisha-40, Neora-29, Murti-26, Chepan-25, Gajoldoba-24, Nagarkata-24, Champasari-21 **Bihar:** Chakia-22 **Konkan & Goa:** Guhagarh-25
		26	**Gujarat Region:** Waghai-29, **Coastal Karnataka:** Kollur-25
		27	**East Rajasthan** Bassi-21 **Konkan & Goa** Matheran-44, Pen-40, Murbad-33, Ulhasnagar-30, Ambernath-28, Karjat Agri-27, Khalapur-24, Roha-24, Panvel Agri-24, Tbia Imd Part Time-24, Chiplun-23, Kalyan-23, Tala-22, Santacruz - Imd Obsy-22, Bhira - Imd Part Time-22, Poladpur-21, **Madhya Maharashtra:** Lonavala Agri-29 Mahabaleshwar-24, Igatpuri-21
		28	**East Rajasthan:** Bundi-26 **West Madhya Pradesh:** Nusrulgunj (ARG)-21 **Konkan & Goa:** Matheran-44, Karjat_Agri-28, Panvel_Agri-27, Tbia -24, Khalapur-23, Santacruz – 22, **Madhya Maharashtra:** Lonavalai-29, Mahabaleshwar -24
		29	**West Rajasthan:** Pali-22 **Gujarat Region:** Wav-23, **Konkan & Goa:** Vaibhavwadi-23 **Madhya Maharashtra:** Nashik-27, Mahabaleshwar- -24, Igatpuri-23,
		30	**West Madhya Pradesh:** Sehore-Aws-25 **Gujarat Region:** Dharampur-29, Waghai-21, **Saurashtra & Kutch:** Rajkot-22 **Madhya Maharashtra:** Lonavala_Agri-28, Mahabaleshwar- Imd Obsy-23, Gaganbawada-23,
		31	**Jammu & Kashmir:** Udhampur(IAF)-34, Katra-29, **Konkan & Goa:** Wada-23,
8	August	01	**Gujarat Region:** Vadodara-56 **Madhya Maharashtra:** Bhusawal-28,
		02	**Himachal Pradesh:** Una-23 **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy-27 **Chhattisgarh:** Bijapur-21 **Telangana:** Venkatapur-22
		03	**Gujarat Region:** Kaprada-26, Vapi-24, Daman Fmo-24, Daman-21 **Konkan & Goa:** Bhira - Imd Part Time-33, Roha-29, Poladpur-25, Palgharagri-24, Mangaon-23, Tala-21, Matheran-21 **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy-28, Lonavalaagri-24, Igatpuri-22 **Vidarbha:** Pauni-27 **Chhattisgarh:** Bijapur-25, Bhairamgarh-21

EXTREME RAINFALL EVENTS

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
		04	**Gujarat Region:** Umerpada-42, Khambhat-39, Olpad-33, Waghai-30, Daman-30, Vansda-27, Kaprada-26, Dharampur-26, Anand-26, Nanipalson-25, Vapi-25, Pardi-23, Khergam-22, Dangs (Ahwa)-22, V.Vidyanagar Sr-22 **Konkan & Goa:** Pen-49, Alibag - Imd Part Time-41, Thane-37, Tbiaimd Part Time-34, Kalyan-31, Wada-31, Vikramgad-31, Karjat_Agri-29, Bhira - Imd Part Time-27, Ambernath-27, Tala-27, Sudhagad Pali-25, Jawhar-24, Ulhasnagar-24, Khalapur-24, Murud-23, Shriwardhan-22, Mokheda - Fmo-22, Mhasla-21, Roha-21
		05	**Madhya Maharashtra:** Trimbakshwar-31, Mahabaleshwar- Imd Obsy-31, Lonavala_Agri-30, Harsul - Fmo-26, Igatpuri-22, **Gujarat Region:** Umerpada-59, Mangrol-45, Kaprada-36, Hansot-35, Dediapada-32, Ukai-28 **Konkan & Goa:** Jawhar-45, Wada-29, Mokheda - Fmo-28, Ratnagiri - Imd Obsy-27, Matheran-25, Chiplun-22, Poladpur-22, Lanja-21 **Maharashtra:** Trimbakshwar-40, Mahabaleshwar- Imd Obsy-38, Igatpuri-37, Gaganbawada-28, Harsul - Fmo-26, Peth-24, Lonavalaagri-23, Ozharkheda - Fmo-23, Dindori-21
		06	**Uttarakhand:** Banbasa-27 **Gujarat Region:** Waghai-27, Vansda-23 **Konkan & Goa:** Sawantwadi-37, Kankavli-27, Vaibhavwadi-26, Valpoi-2 **Madhya Maharashtra:** Gaganbawada-33, Mahabaleshwar- Imd Obsy-33, Radhanagari-32, Ajra-22 **Coastal Karnataka:** Siddapur-28, Kollur-27, Manki-27, Yellapur-24,**S. Interior Karnataka:** Hosanagar-28, Hunchadakatte-22, Linganamakki Hms-21, Kottigehara-21
		07	**Odisha:** Lanjigarh-38, Kashipur-32, Kotagarh-31, Phiringia Arg-29, Kotraguda-26, Tarva Arg-24, Muniguda Arg-23, Kalinga-21 **Konkan & Goa:** Mangaon-32, Tala-22, Mahad-21, Sawantwadi-2 **Madhya Maharashtra:** Mahabaleshwar- Imd-28, Gaganbawada-23, **Coastal A.P. & Yanam:** Chintur-21, **Coastal Karnataka:** Kollur-22, Yellapur-22, **S. I. Karnataka:** Bhagamandala-29, Kottigehara-28, Hosanagar-25, Kammardi-21, Hunchadakatte-21, Ponnampet Pwd-21,
		08	**Odisha:** Laikera-25, Deogaon-25, Binjharpur Arg-23, Kirmira Arg-22, Jajpur-21, Bolangir-21, **Gujarat Region:** Quant-26, **Madhya Maharashtra:** Mahabaleshwar- Imd Obsy-27, Chandgad-21, **Chhattisgarh:** Deobhog-30, Lohandiguda-27, Mana-Raipur-Ap-23, **Tamil.,Pudu.&Karaikal:** G Bazar-24, Chinnakalar-23, Devala-21, **Coastal Karnataka:** Yellapur-21, **N. I. Karnataka:** Londa-27, **S. I. Karnataka:** Kottigehara-31, Kalasa-26, Sringeri Hms-26, Napoklu-23, Hosanagar-22, **Kerala & Mahe:** Manantoddy-26, Vyttiri-24,
		09	**West Madhya Pradesh:** Tarana-21, **Gujarat Region:** Chhota Udepur-34, Quant-28, **Madhya Maharashtra:** Dhadgaon/Akrani-Hydro-27, Shirpur-21, **Tamil.,Pudu.&Karaikal:** Chinnakalar-37, Valparai Pto-35, Valparai Taluk Office-26, Devala-26, G Bazar-25, Naduvattam-22, **Coastal Karnataka:** Yellapur-30, **S. I. Karnataka:** Bhagamandala-40, Hunchadakatte-29, Virajpet-27, Kalasa-27, Sargur-23, Mudigere-22, Sringeri Hms-21, **Kerala & Mahe:** Alathur-40, Ottapalam-34, Kollamkode-32, Mannarkkad-31, Vadakara-30, Palakkad-29, Vyttiri-29, Ambalavayal-26, Chittur-23,

EXTREME RAINFALL EVENTS

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
			Manjeri-23, Pattembi-23, Chalakudi-22, Perinthalamanna-21, Thritla-21, Kochi C.I.A.L.-21, Munnar Kseb-21,
		10	**Gujarat Region:** Mahudha-34, Dhandhuka-32, Kadi-30, Galteshwar-26, Dholera-24, Kalol(G)-23, Jotana-21, **Saurashtra & Kutch:** Barvala-38, Gadhda-29, Botad-29, Ranpur-26, Chuda-24, Kandla New-21, Dhrangadhra-21, Surendranagar-21, Vallabhipur-21, **Coastal Karnataka:** Subramanya-31, Dharmasthala-23, Belthangadi-22, Siddapur-21, **S. I. Karnataka:** Hunchadakatte-39, Kalasa-32, Mudigere-29, Linganamakki Hms-27, Bhagamandala-26, Hosanagar-23, Kammardi-21, Jayapura-21,
		11	**Saurashtra & Kutch:** Nakhatrana-32, Naliya-27, Tankara-27, Morbi-26, Abdasa-25, Rapar-21, Dhrangadhra-21, Lakhpat-21, **S. I. Karnataka:** Kammardi-23, **Kerala & Mahe:** Vadakara-21,
		13	**Odisha:** Madanpur Rampur-45, Kantamal-35, Baliguda-32, Saintala Arg-31, Belgaon-29, Bolangir-26, Narla Arg-24,
		14	**Odisha:** Bolangir-55, **Chhattisgarh:** Bemetara-21,
		15	**East Rajasthan:** Dug-21, **East Madhya Pradesh:** Patan-24, Khurai-23, **Konkan & Goa:** Sanguem-21, Valpoi-21, **S. I. Karnataka:** Agumbe Emo-21,
		16	**West Rajasthan:** Pali-28, **East Rajasthan:** Begu Sr-30, Chabra-26, Atru Sr-24, Mandalgarh-24, Pratapgarh-22, Dug-21,
		18	**Punjab:** Balachaur-27, Khanna-25, Nawanshahr-21, Nabha-21, Hoshiarpur Aws-21, **Himachal Pradesh:** Naina Davi-36, Jhandutta-27, Barthin-24, Rohru-23, Nahan-23, R L Bbmb-21,
		26	**Gangetic West Bengal:** Kharagpur (I.I.T)-25,
		31	**West Madhya Pradesh:** Khandwa-Aws-24, **Coastal Karnataka:** Manki-24,
9	September	04	**Vidarbha:** Bhamragad-24,
		05	**Gujarat Region:** Vapi-27, Pardi-24, **Konkan & Goa:** Vasai-27, Santacruz Imd Obsy-24, Tbia-22, **S. I. Karnataka:** Bhagamandala-26,
		06	**Madhya Maharashtra:** Gaganbawada-21, **Vidarbha:** Desaiganj-21, **Chhattisgarh:** Jagdalpur-29,
		07	**Odisha:** Anandpur-25, **Vidarbha:** Bhiwapur-29,
		08	**Odisha:** Jujumura Arg-23, **Madhya Maharashtra:** Gaganbawada-25, **Vidarbha:** Gondia Ap-21, **Chhattisgarh:** Baramkela-23, Manpur-21,
		09	**East Madhya Pradesh:** Seoni-Aws-31,
		10	**Gujarat Region:** Umerpada-39,
		14	**Assam & Meghalaya:** Cherrapunji-25, Cherrapunji (Rkm)-22, **West Madhya Pradesh:** Susner-25,
		15	**East Rajasthan:** Gangdhar Sr-22, **West Madhya Pradesh:** Manasa-24, Mandsaur-Aws-22, **Konkan & Goa:** Palghar Agri-24, Dahanu - Imd Obsy-22,
		18	**Coastal A.P. & Yanam:** Guntur-21, **Telangana:** Nalgonda-22,
		19	**Tamil., Pudu.& Karaikal:** Tiruvallur-22, Poondi-21,
		26	**Madhya Maharashtra:** Sangamner-28
		27	**East Uttar Pradesh:** Kunda-21,

EXTREME RAINFALL EVENTS

Sno	Months	Date	Sub-division with Station recorded =>21cm rainfall
		28	**Bihar:** Jandhaha-23, Rajauli-22, **East Uttar Pradesh:** Jaunpur Tehsil-30, Azamgarh-22, Jaunpur Cwc-22,
		29	**Bihar:** Rosera-29, Bihpur-21, Koilwar-21, **East Uttar Pradesh:** Gyanpur-21,
		30	**Jharkhand:** Rajmahal-28, **Bihar:** Rosera-25, Udai Kishanganj-24, Baltara-22, **East Uttar Pradesh:** Gaighat (Bla Fmo)-24, **Saurashtra & Kutch:** Bhanvad-33, Jamjodhpur-22, **Chhattisgarh:** Pali-22,
10	October	01	**ASSAM & MEGHALAYA:** Williamnagar-23
		24	**Odisha:** Krishnaprasad-25, **Coastal Andhra Pradesh:** Bheemunipatnam-23, Mandasa-22, Ranastalam-22,
		25	Gangetic West Bengal: Digha-23, Odisha: Binjharpur Arg-24, Basudevpur Aws-22
		26	**Assam & Meghalaya:** Mawsynram-35, Cherrapunji-29, Cherrapunji (Rkm)-23, Williamnagar-23, **Coastal Karnataka:** Manki-24,
		31	**Lakshadweep:** Amini-30,
11	November	NIL	
12	December	02	**Lakshadweep:** Minicoy-21,

The frequency of the occurrences of extreme rainfall events pan India shows a peak of 255 extreme events (r/f>=21cms), occurring in the month of Aug spread over 19 days followed by the month of July with 143 events spread over a period of 24 days making Aug as the most active month for such activities Fig (89 & 90). These events have shown a high rate of occurrences over Central India (Fig 91). South India followed by East and North East region with minimum occurrence over Northwest region.

Figure 89: Extreme Rainfall Events/Days for Country a whole during 2019
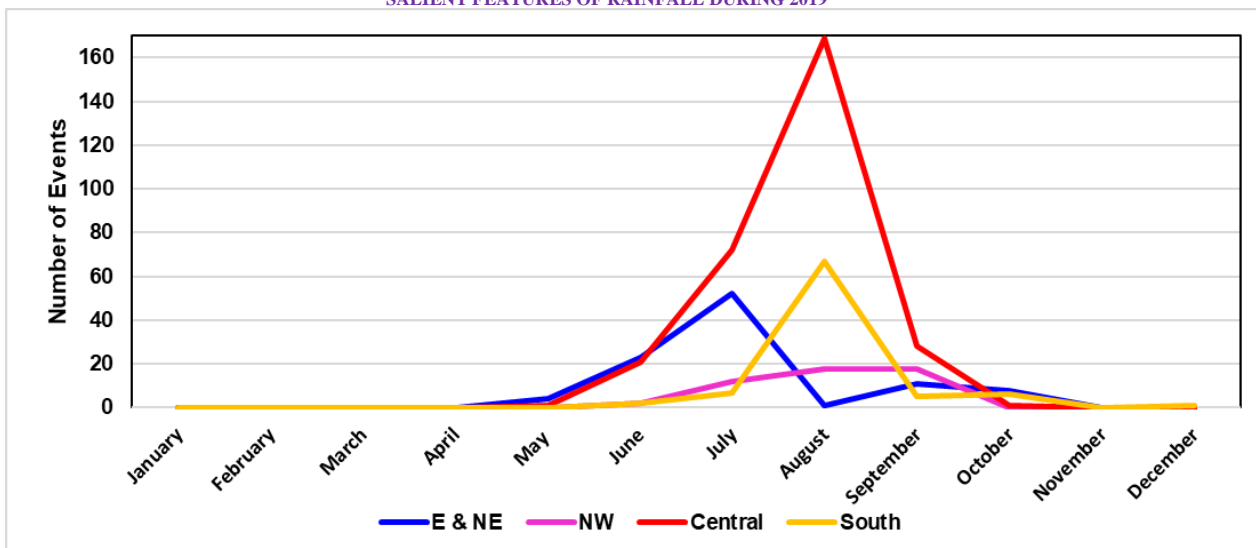
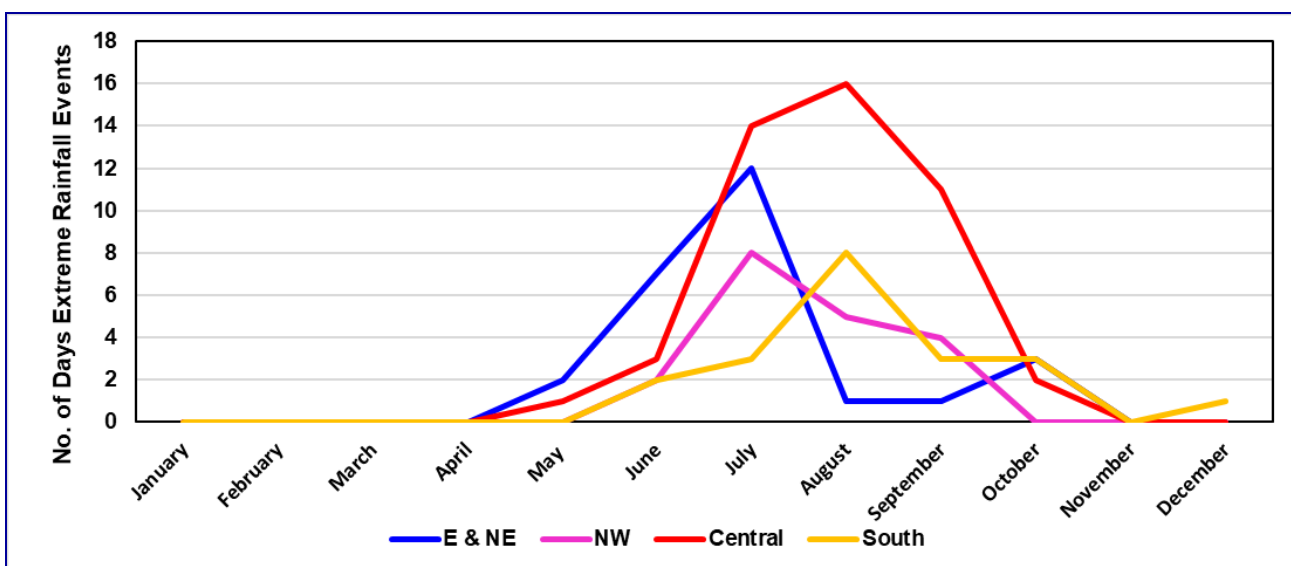**Figure 90:**: **Broad Homogeneous region wise Extreme Rainfall Events during 2019**

**Figure 91:**: Broad Homogeneous region wise Extreme Rainfall days during 2019

9. *SALIENT FEATURES OF RAINFALL DURING 2019*

1. The country received actual annual rainfall of 1288.8 mm which was 110% of its long period average (LPA).
2. The country received actual SW Monsoon season (June to September) rainfall of **971.8** mm which was **110%** of its long period average (LPA).
3. The rainfall for the country as whole during Pre-monsoon, Postmonsoon and Winter season was **102.1**mm, **161.1** mm & **51.5** mm which was **-22%, 30%** & **26%** of LPA respectively.
4. The seasonal rainfall for the country as a whole was more than the normal value for the all the seasons except Premonsoon.
5. Rainfall distribution during SW Monsoon season:

SALIENT FEATURES OF RAINFALL DURING 2019

a. **Region Wise:** North West India, Central India, South Peninsula, East & North East India received actual rainfall of 595.4 mm, 1263.2 mm, 841.0 mm, 1243.8 mm which was -1%, 29%, 16%, -12% of LPA respectively.

b. **Month Wise:** The actual rainfall for the country as a whole during June, July, August & September was 113.5 mm, 298.8 mm, 299.9 mm, 259.5 mm which was -32%, 5%, 16% and 52% of LPA respectively.

c. **Met Sub Division Wise:** Out of 36 met sub divisions, 2 met sub divisions received Large Excess rainfall, 10 met sub divisions received Excess rainfall, 21 met sub divisions received Normal rainfall and 3 met sub divisions received Deficient rainfall.

d. **District Wise:** As per availability of data, out of 683 districts for which rainfall statistics was prepared,64 districts received Large Excess rainfall, 135 districts received Excess rainfall, 328 districts received Normal category of rainfall, 137 districts received Deficient rainfall and there was no data received for 7 districts.

6. The rainfall deficiency for the country as a whole was maximum (22%) during pre-Monsoon season.

7. Annual and seasonal rainfall was less than the normal value for all the four homogeneous region and country as a whole in Pre-Monsoon.

8. In the four meteorological homogeneous regions, highest positive departure of 78% was experienced in North West India during Post Monsoon season, whereas highest negative departure of 46% was observed in South Peninsula India during PreMonsoon season.

9. Month wise, maximum positive departure of 303% was recorded in the month of November in North-West India and the maximum negative departure of 78% was recorded in the month of January in East & North-East India.

10. Met sub-division-wise Annual and Seasonal rainfall distribution:

a. **Annual:** Konkan & Goa received highest rainfall of 4830.8 mm and Haryana; Chadigarh & Delhi received lowest annual rainfall 0f 356.8 mm.

b. **SW Monsoon season:**

i. Konkan & Goa received highest rainfall of 4385.8 mm and Haryana, Chadigarh & Delhi received lowest rainfall of 258.6 mm.

ii. Haryana, Chadigarh & Delhi recorded highest deficiency of 42% whereas highest positive departure of 66% was recorded in Saurashtra & Kutch.

11. Annually, the District of East Khasi Hills in Meghalaya received the highest rainfall of 5245.3 mm where as the District Ladakh in Leh (UT) received the lowest rainfall of 65.5 mm.

Extreme Rainfall Events during 2019
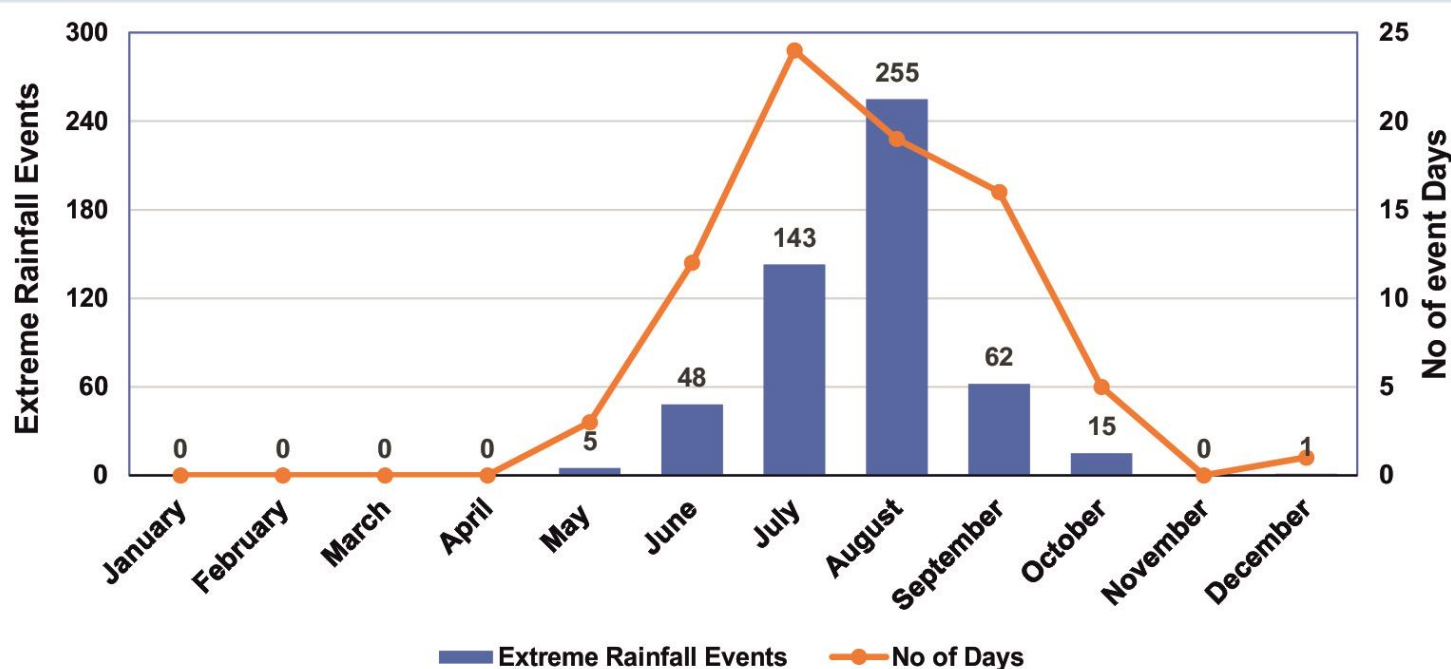
Prepared by

B. P. Yadav, Rahul Saxena, Dr. Ashok Kr. Das and S. K. Manik

Supported by

Davinder Sharma, Ashok Kumar, Rameswar Ram, Manveer Singh, Smt. Malini Thakur, Smt. Sushma Singh, Deepak Yadav, P. K. Gupta and P. K. Panchal