

Voluntary Report – Voluntary - Public Distribution

Date: September 04,2020

Report Number: IN2020-0116

Report Name: Monsoon Update - August 2020

Country: India

Post: Mumbai

Report Category: Climate Change/Global Warming/Food Security, Agriculture in the Economy, Agricultural Situation, Cotton and Products, Coffee, Grain and Feed, Oilseeds and Products, Sugar, Agriculture in the News

Prepared By: Dhruv Sood

Approved By: Lazaro Sandoval

Report Highlights:

According to the Indian Meteorological Department, the cumulative rainfall for the Southwest Monsoon 2020 is two percent higher than normal fifty-year average of 710 millimeters, as of August 31, 2020. Planting area for the kharif crop is seven percent higher than last year, with significant area increases for rice, pulses, and oilseeds

Monsoon Recovers in August

During August, the southwest monsoon was very active in Central and Southern India which led to cumulative rainfall that was 27 percent above normal rain levels. The intense monsoon rains in August raised the cumulative rainfall during the monsoon season to two percent above normal rain levels. More than 80 percent of the districts across India have received normal to excess rains. Additional rains in September will likely affect crops at various stages of growth, and excess flooding may lead to waterlogged fields, thereby impacting overall yields.

Weather Outlook for the Next Five Days

According to the Indian Meteorological Department (IMD), the southwest monsoon remains active over the states of Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Bihar, Andhra Pradesh, Kerala, Tamil Nadu, West Bengal, and southern Karnataka. These states are forecast to receive widespread rains during the next five days (Sep 2-5). Fairly widespread rainfall is expected in East and Northeast India and South Peninsular India on September 7-9.

Sowing Progress

According to the Ministry of Agriculture and Farmers Welfare's (MOAFW) August 28, 2020 report, overall planting area for the Kharif 2020 crop is seven percent higher than last year, but only one percent higher than the five-year average. Planting for all major crops is higher compared to last year. Telangana (rice, cotton), Madhya Pradesh (soybean, rice), Rajasthan (bajra), Gujarat (groundnut), Maharashtra (soybean, pulses - arhar and mungbean), and Karnataka (coarse cereals - maize, ragi; pulses – mungbean) have seen significant increases in planted area. For more details please refer [All India Crop Situation dated August 28, 2020](#)

Reservoir Storage

The Central Water Commission monitors the live storage status of 123 reservoirs around the country on a weekly basis. As per the reservoir storage bulletin dated August 27, 2020, the live storage available in these reservoirs is 131.172 billion cubic meters (BCM), which is 77 percent of total live storage capacity. The live storage available in these reservoirs for the corresponding period last year was 129.027 BCM (75 percent), and the average of the last 10 years live storage was 109.839 BCM (64 percent). As such, the current storage position is better than the corresponding period last year and better than the average storage level of the last ten years during the corresponding period.

Out of 123 reservoirs, 114 reservoirs reported more than 80 percent of normal storage levels and 9 reservoirs reported 80 percent or below of normal storage. Out of these 9 reservoirs, 1 has stored up to 50 percent of normal storage. According to the Central Water Commission, normal storage represents the average storage level of last ten years, close to normal storage represents a shortfall of up to 20 percent of normal, deficient storage is where shortfall is greater than 20 percent of the normal and up to 60 percent of the normal, highly deficient means shortfall is more than 60 percent of normal.

States that have better storage (in percentage) than last year for the corresponding period include Jharkhand, West Bengal, Tripura, Nagaland, Maharashtra, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Andhra Pradesh and Telangana (two combined projects in both states), Andhra Pradesh, Telangana, and Kerala. For more details please refer the [Reservoir Storage Bulletin](#).

**Table 1. India: Southwest Monsoon Regional Rainfall Distribution
from June 1 to August 31, 2020**

Regions	2020 Actual (mm)	Normal (mm)*	2020 Percentage Departure from Normal
Northwest India	446.7	490.2	-9%
Central India	966.8	799.3	21%
Southern Peninsula	680.1	566.1	20%
East and Northeast India	1,153.2	1,125.1	2%
All India	780.3	710.4	2%

*Normal Rainfall is the fifty-year average from 1951-2000

Source: Indian Meteorological Department

Table 2. India: Kharif 2020 Sown Area (in million hectares)

Crop	Area Sown in 2020 as on August 28, 2020	Area Sown in 2019 as on August 28, 2019	Normal Area on August 28**	Y-o-Y Change	Change from Normal
Rice	38.981	35.441	39.729	10%	-2%
Pulses	13.457	12.865	12.888	5%	4%
Coarse Cereals	17.689	17.249	18.489	3%	-4%
Oilseeds	19.329	17.099	17.808	13%	9%
Sugarcane	5.229	5.168	4.846	1%	8%
Jute and Mesta	0.697	0.686	0.787	2%	-11%
Cotton	12.841	12.49	12.097	3%	6%
Total	108.223	100.998	106.644	7%	1%

Source: Ministry of Agriculture and Farmers Welfare, Government of India

**Normal Area is the five-year average of the area from 2014-2018

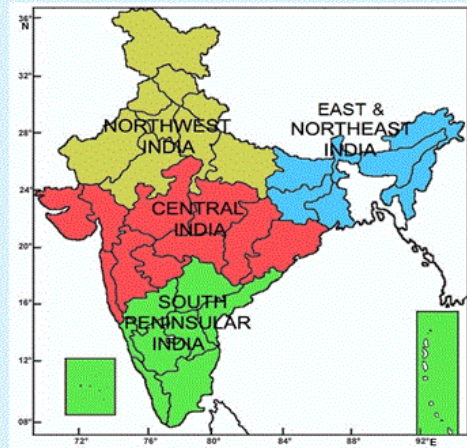
RAINFALL STATISTICS - MONSOON 2020

JUNE - 2020		1-Jun	TO	30-Jun
REGION	ACTUAL	NORMAL		% DEP
COUNTRY AS A WHOLE	196.2	166.9		17.6
NORTHWEST INDIA	77.9	75.3		3.5
EAST & NORTHEAST INDIA	401.4	347.1		15.7
CENTRAL INDIA	220.9	169.2		30.5
SOUTH PENINSULA	172.6	160.2		7.7

JULY - 2020		1-Jul	TO	31-Jul
REGION	ACTUAL	NORMAL		% DEP
COUNTRY AS A WHOLE	257.6	285.3		-9.7
NORTHWEST INDIA	157.7	212.2		-25.7
EAST & NORTHEAST INDIA	471.8	432.0		9.2
CENTRAL INDIA	250.7	322.8		-22.3
SOUTH PENINSULA	251.7	216.7		16.2

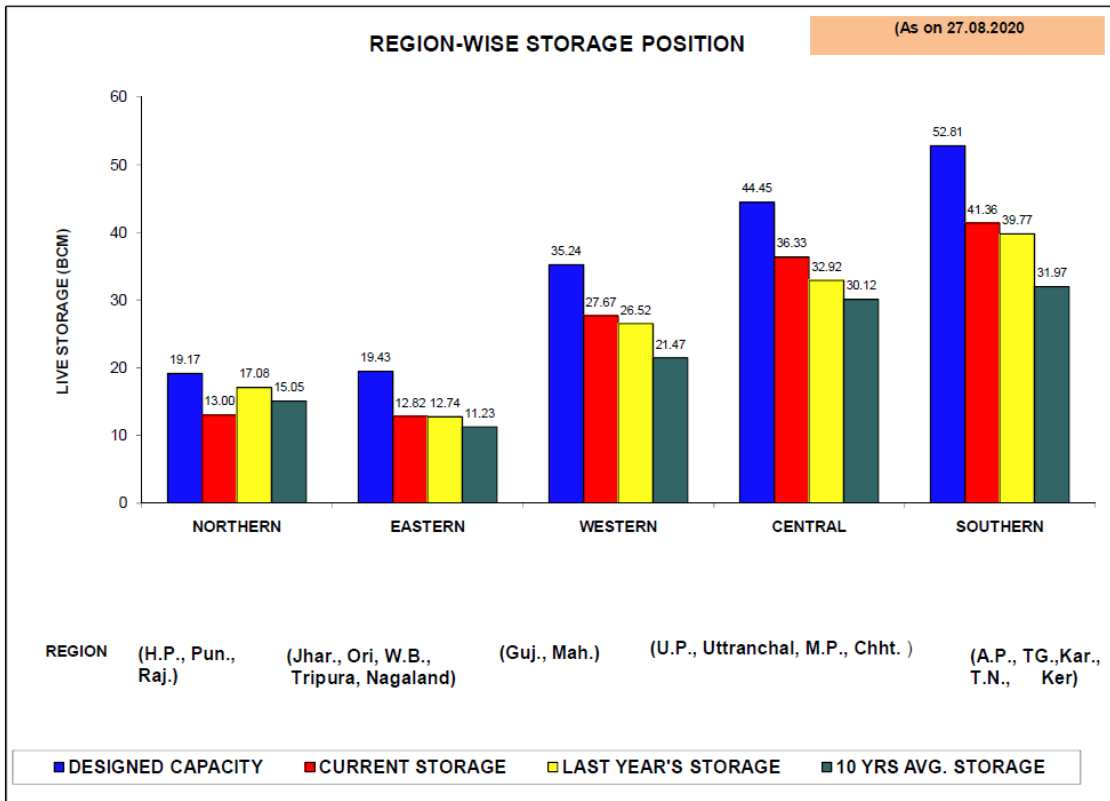
AUG - 2020		1-Aug	TO	31-Aug
REGION	ACTUAL	NORMAL		% DEP
COUNTRY AS A WHOLE	327.0	258.0		26.7
NORTHWEST INDIA	212.3	202.7		4.8
EAST & NORTHEAST INDIA	279.9	346.0		-19.1
CENTRAL INDIA	495.2	307.3		61.2
SOUTH PENINSULA	256.2	188.9		35.6

CUMULATIVE SEASONAL RAINFALL		1-Jun	TO	31-Aug
REGION	ACTUAL	NORMAL		% DEP
COUNTRY AS A WHOLE	780.3	710.4		9.8
NORTHWEST INDIA	446.7	490.2		-8.9
EAST & NORTHEAST INDIA	1153.2	1125.1		2.5
CENTRAL INDIA	966.8	799.3		21.0
SOUTH PENINSULA	680.1	566.1		20.1



FOUR HOMOGENEOUS REGIONS OF INDIA

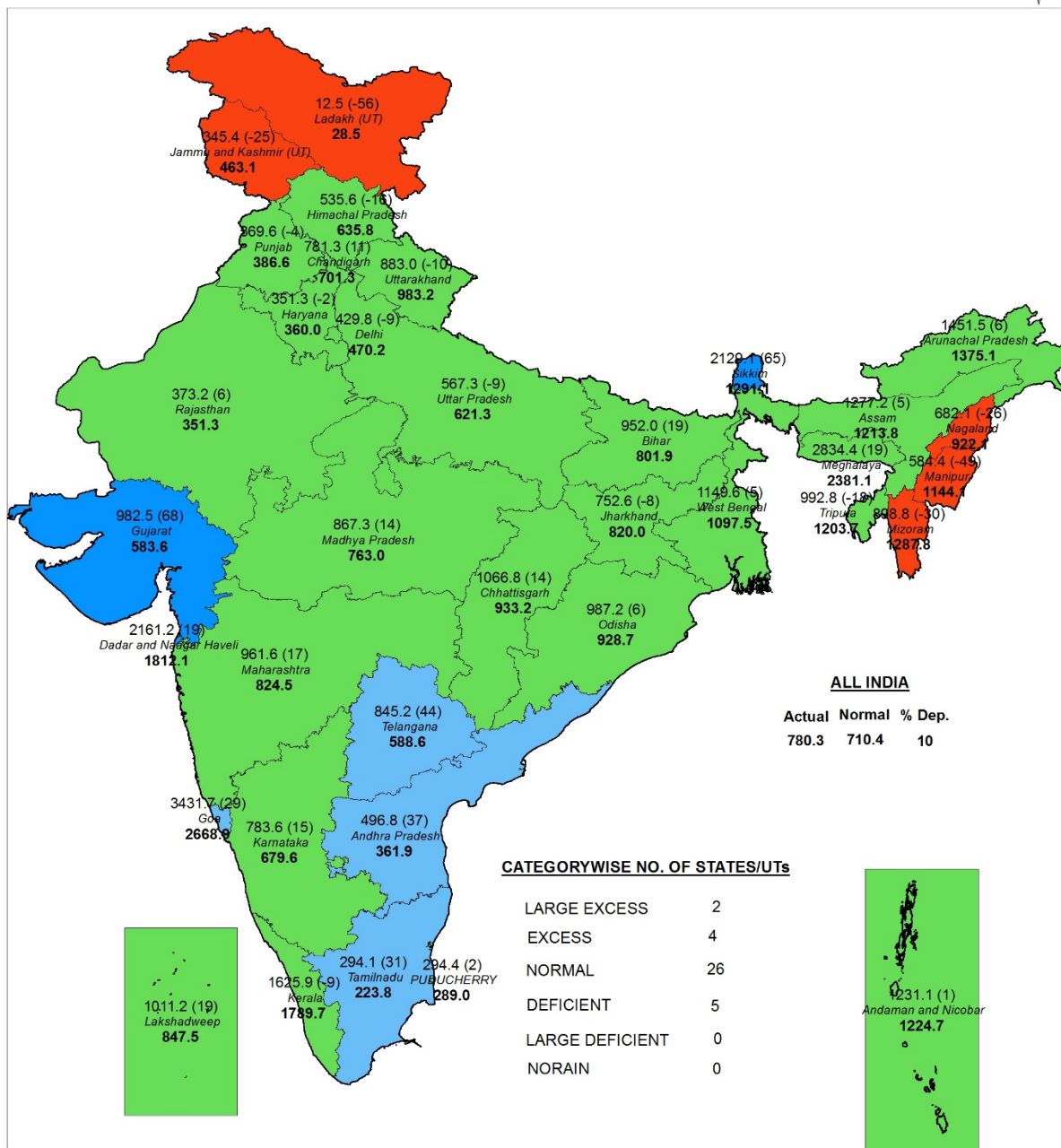
(Based on real time data)





STATE RAINFALL MAP

Period : 01-06-2020 To 31-08-2020



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

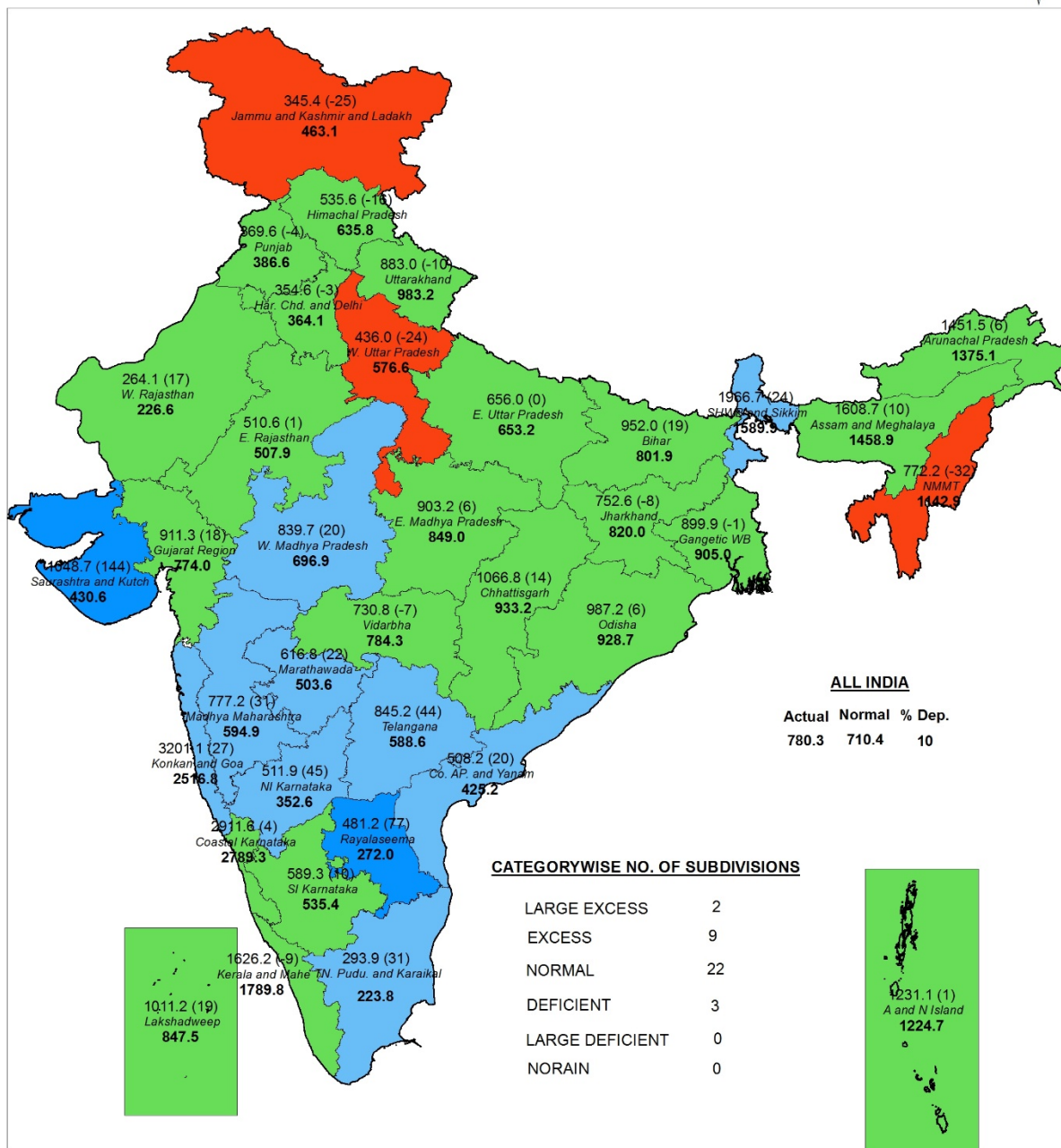
NOTES :

- a) RainFall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.



SUBDIVISION RAINFALL MAP

Period : 01-06-2020 To 31-08-2020



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

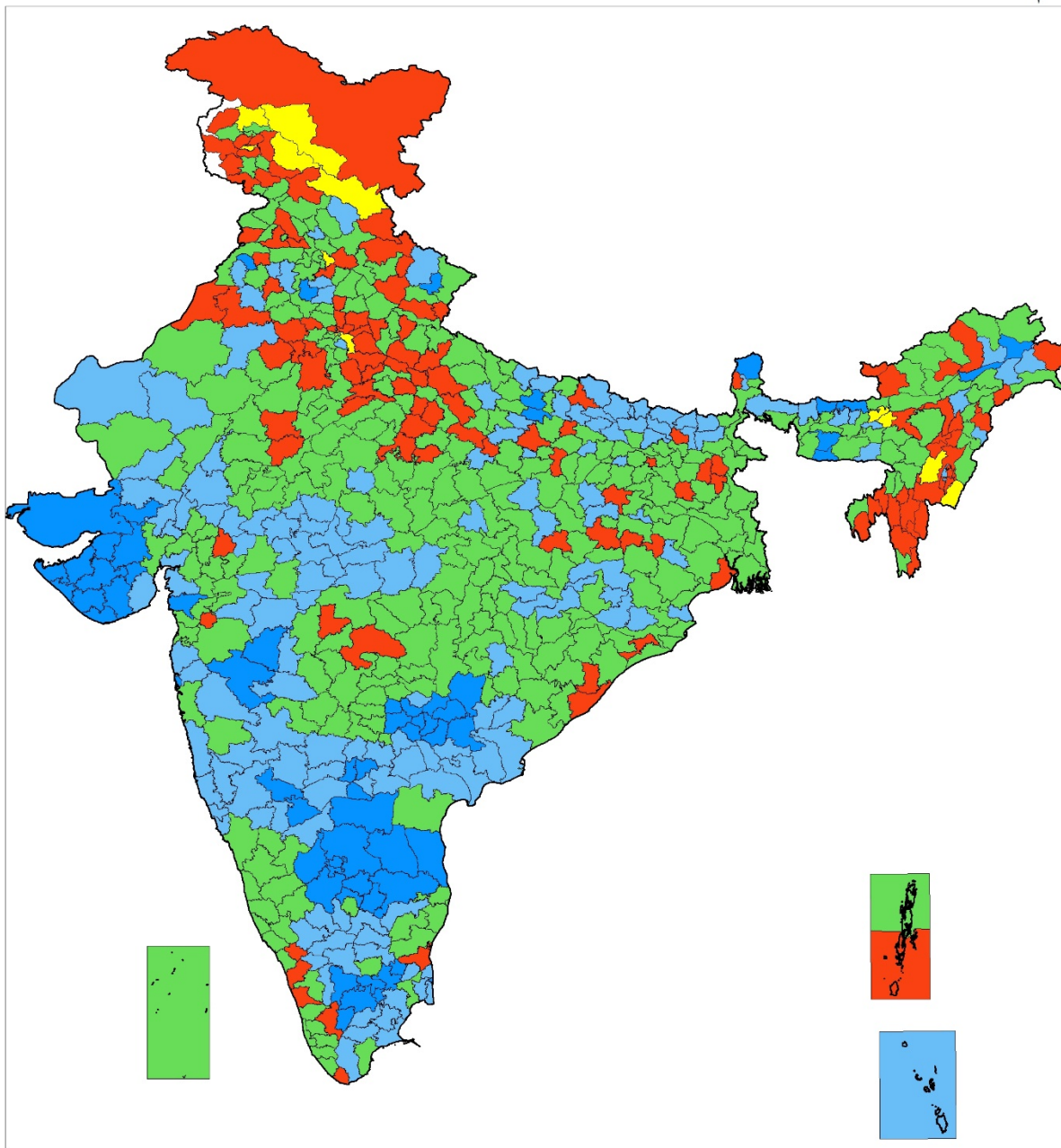
NOTES :

- a) RainFall figures are based on operation data.
- b) Small figures indicate actual rainfall (mm), while bold figures indicate Normal rainfall (mm).
- c) Percentage Departures of rainfall are shown in brackets.



DISTRICT RAINFALL MAP

Period : 01-06-2020 To 31-08-2020



Legend

Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Rain [-100%] No Data

NOTES :

a) RainFall figures are based on operation data.



STATE-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:31-08-2020				Period:01-06-2020 To 31-08-2020			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	15.6	9.3	68%	LE	1451.5	1375.1	6%	N
2	ASSAM	19.2	9.4	104%	LE	1277.2	1213.8	5%	N
3	MEGHALAYA	1.1	16.1	-93%	LD	2834.4	2381.1	19%	N
4	NAGALAND	2.5	7.6	-67%	LD	682.1	922.1	-26%	D
5	MANIPUR	0.4	8.0	-95%	LD	584.4	1144.1	-49%	D
6	MIZORAM	0.8	9.4	-91%	LD	898.8	1287.8	-30%	D
7	TRIPURA	9.2	7.7	19%	N	992.8	1203.7	-18%	N
8	SIKKIM	16.8	10.3	63%	LE	2129.1	1291.1	65%	LE
9	WEST BENGAL	5.9	9.0	-35%	D	1149.6	1097.5	5%	N
10	JHARKHAND	0.0	7.4	-99%	LD	752.6	820.0	-8%	N
11	BIHAR	0.2	7.2	-98%	LD	952.0	801.9	19%	N
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	0.2	6.2	-97%	LD	567.3	621.3	-9%	N
2	UTTARAKHAND	2.0	9.7	-80%	LD	883.0	983.2	-10%	N
3	HARYANA	0.9	2.4	-62%	LD	351.3	360.0	-2%	N
4	CHANDIGARH (UT)	2.5	4.9	-50%	D	781.3	701.3	11%	N
5	DELHI (UT)	2.0	3.2	-36%	D	429.8	470.2	-9%	N
6	PUNJAB	3.3	3.1	7%	N	369.6	386.6	-4%	N
7	HIMACHAL PRADESH	11.6	5.6	107%	LE	535.6	635.8	-16%	N
8	JAMMU & KASHMIR (UT)	9.4	4.5	108%	LE	345.4	463.1	-25%	D
9	LADAKH (UT)	0.0	0.2	-100%	NR	12.5	28.5	-56%	D
10	RAJASTHAN	22.0	3.4	548%	LE	373.2	351.3	6%	N
REGION : CENTRAL INDIA									
1	ODISHA	1.1	7.7	-86%	LD	987.2	928.7	6%	N
2	MADHYA PRADESH	3.2	9.5	-66%	LD	867.3	763.0	14%	N
3	GUJARAT	54.5	7.1	668%	LE	982.5	583.6	68%	LE
4	DADAR & NAGAR HAVELI (UT)	64.4	22.3	189%	LE	2161.2	1812.1	19%	N
5	DAMAN & DIU (UT)	62.0	16.6	273%	LE	1510.6	1363.8	11%	N
6	GOA	15.7	16.9	-7%	N	3431.7	2668.9	29%	E
7	MAHARASHTRA	5.6	8.3	-33%	D	961.6	824.5	17%	N
8	CHHATTISGARH	0.2	9.2	-98%	LD	1066.8	933.2	14%	N
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	15.9	13.0	22%	E	1231.1	1224.7	1%	N
2	ANDHRA PRADESH	8.2	4.2	95%	LE	496.8	361.9	37%	E
3	TELANGANA	0.4	6.9	-94%	LD	845.2	588.6	44%	E
4	TAMIL NADU	5.2	3.1	69%	LE	294.1	223.8	31%	E
5	PUDUCHERRY (UT)	0.2	6.1	-97%	LD	294.4	289.0	2%	N
6	KARNATAKA	5.2	5.2	0%	N	783.6	679.6	15%	N
7	KERALA	0.3	9.2	-96%	LD	1625.9	1789.7	-9%	N
8	LAKSHADWEEP (UT)	0.0	10.8	-100%	NR	1011.2	847.5	19%	N
COUNTRY :		9.5	6.7	42%		780.3	710.4	10%	

CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Day:31-08-2020	Period:01-06-2020 To 31-08-2020
	NO.OF STATES	NO.OF STATES
Large Excess	11	2
Excess	1	4
Normal	4	26
Deficient	4	5
Large Deficient	15	0
NoRain	2	0
NoData	0	0

PROGRESS OF MONSOON 2020 WEEK BY WEEK

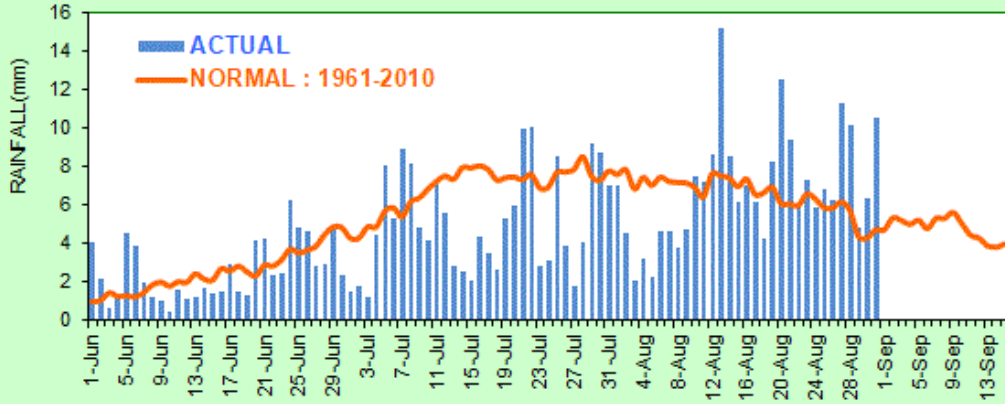
S.NO	MET.SUBDIVISION	WEEK ENDINGS																	
		3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep
1	A & N ISLANDS	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
2	ARUNACHAL PRADESH	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
3	ASSAM & MEGHALAYA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
4	NAG., MANI., MIZO & TRIPURA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
5	S.H.W.B. & SIKKIM	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
6	GANGATIC W.B.	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
7	ODISHA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
8	JHARKHAND	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
9	BIHAR	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
10	EAST U.P.	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
11	WEST U.P.	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
12	UTTARAKHAND	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
13	HAR., CHANDI. & DELHI	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
14	PUNJAB	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
15	HIMACHAL PRADESH	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
16	J & K AND LADAKH	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
17	WEST RAJASTHAN	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
18	EAST RAJASTHAN	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
19	WEST M.P.	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
20	EAST M.P.	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
21	GUJARAT REGION	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
22	SAURASHTRA & KUTCH	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
23	KONKAN & GOA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
24	MADHYA M'RAASHTRA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
25	MARATHAWADA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
26	VIDARBHA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
27	CHATTISGARH	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
28	COASTAL A. P. & YANAM	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
29	TELANGANA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
30	RAYALASEEMA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
31	TAMIL., PUDU. & KARAIKAL	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
32	COASTAL KARNATAKA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
33	N.I.KARNATAKA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
34	S.I.KARNATAKA	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
35	KERALA & MAHE	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue
36	LAKSHADWEEP	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue	Blue

LEGEND:

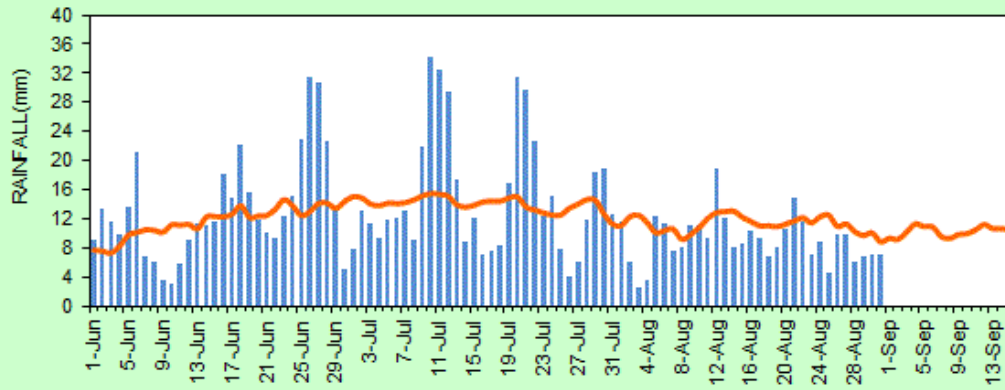
■ LARGE EXCESS +60% OR MORE	■ EXCESS +20% TO +59%	■ NORMAL +19% TO -19%
■ DEFICIENT -20% TO -59%	■ LARGE DEFICIENT -60% OR LESS	■ NO RAIN

(वास्तविक समय के आंकड़ों पर आधारित)

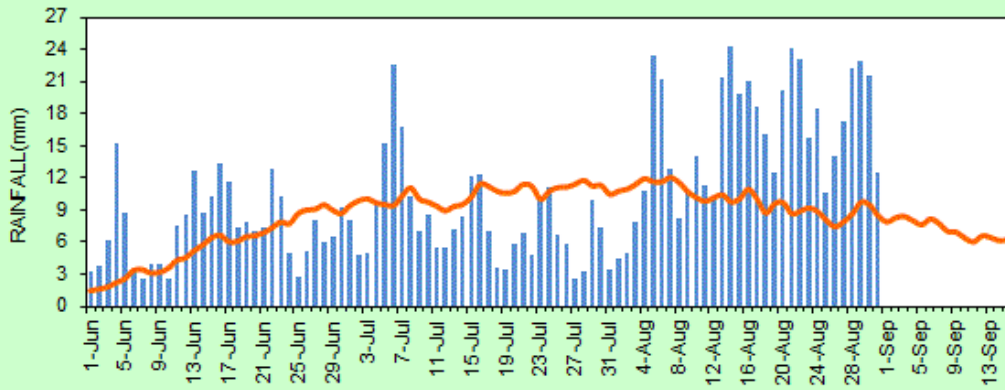
(2020) DAILY MEAN RAINFALL(mm) OVER THE FOUR HOMOGENEOUS REGIONS



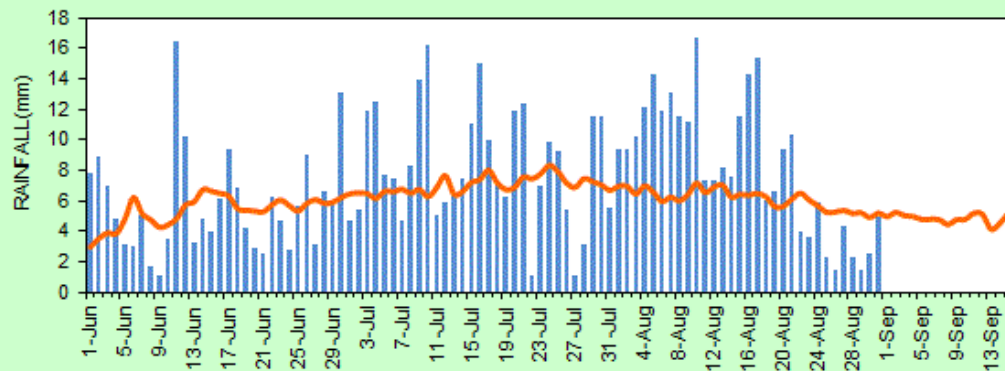
NORTH WEST INDIA



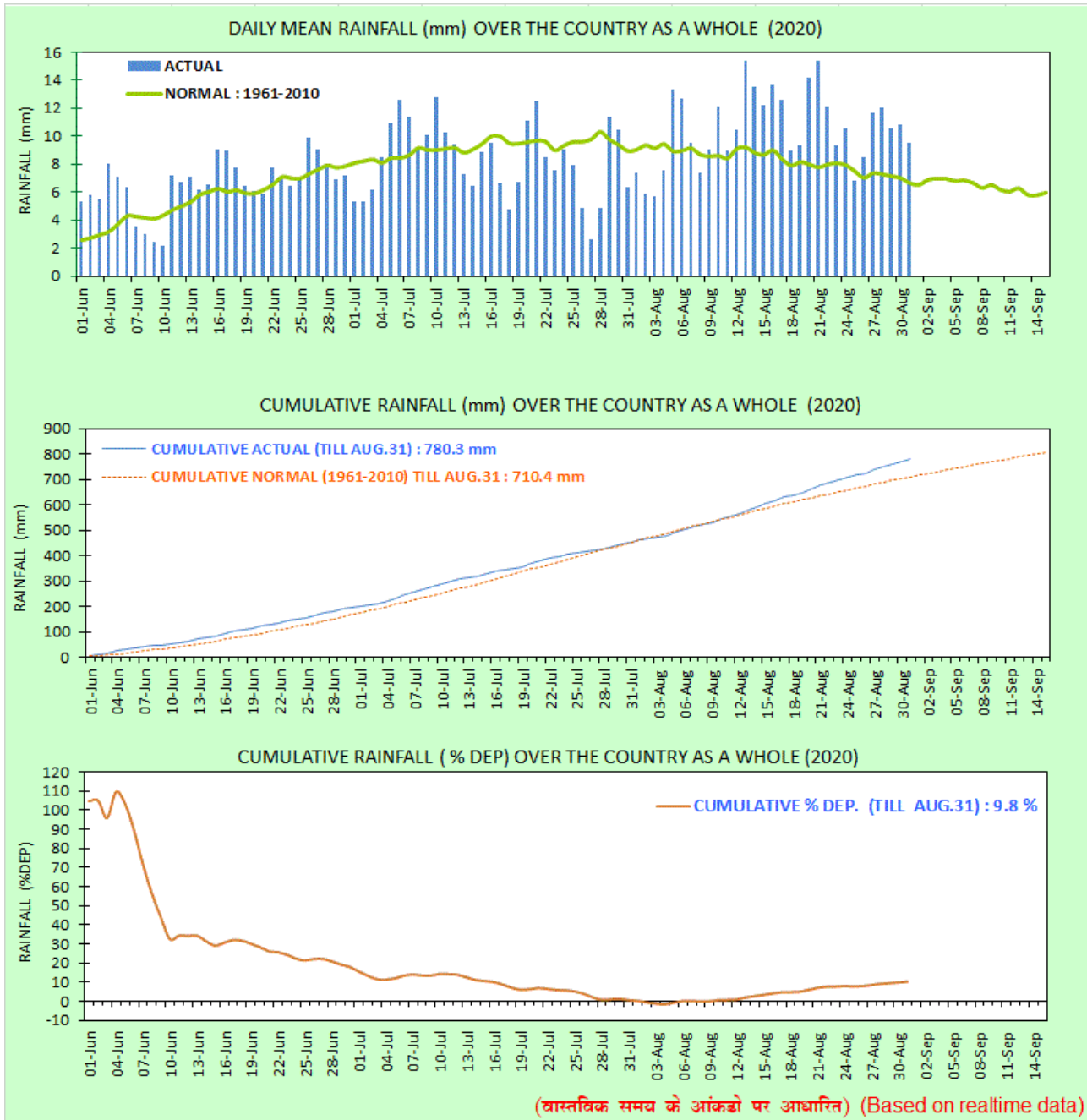
EAST & NORTHEAST INDIA



CENTRAL INDIA



SOUTH PENINSULAR INDIA



Attachments:

No Attachments.