USDA United States Department of Agriculture
Foreign Agricultural Service

GAIN Global Agricultural Information Network

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Report Number: IN2020-0097

Report Name: Monsoon Update - July 2020

Country: India

Post: Mumbai

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

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Report Highlights:

On July 31, the Indian Meteorological Department issued its Long-Range Forecast for rainfall during the second half (August –September) of the 2020 Southwest Monsoon. The rainfall over the country as a whole during the second half of the season is likely to be 104 percent of the long period average (LPA). Below normal rains in Northwest and Central India in July offset the early start to the monsoon in June. The cumulative rainfall for the Southwest Monsoon 2020 reported by the Indian Meteorological Department, as of July 31, 2020, is in normal range similar to the fifty-year average of 452 millimeters. The kharif crop planting acreage is 14 percent higher than last year, with significant area increases for rice, pulses, and oilseeds.

Southwest Monsoon slows down
In June, the country received cumulative rainfall that was 17.6 percent above normal rain levels. But, rainfall in July was 9.8 percent below normal levels, bringing down the cumulative rainfall to 0.3 percent above normal rains. If rainfall recovers during the second-half of the monsoon, it will help crop development and improve groundwater and reservoir levels, which supports the sowing of the *Rabi* crop.

Long Range Forecast for August-September
On July 31, the Indian Meteorological Department (IMD) issued its Long-Range Forecast for rainfall during the second half (August –September) of the 2020 Southwest Monsoon. According to IMD, rainfall over the country as a whole during the second half of the season is likely to be 104 percent of the long period average (LPA) with a model error of plus/minus 8 percent. The rainfall during August is likely to be 97 percent of LPA as was forecasted in June. The season (June to September) rainfall over the country as a whole is likely to be normal (96 -104 percent of LPA) as mentioned in the updated forecast of June 1st.

Weather Outlook for the Next Two Weeks
According to IMD forecast for the next five days (August 3-7), the monsoon will enter into an active phase over Central and Peninsular India from August 4 onwards for 3-4 subsequent days. Widespread rainfall is very likely over Konkan and Goa, isolated areas over Odisha, Gangetic West Bengal, Jharkhand and Chhattisgarh between August 3-5, and Madhya Maharashtra on August 4-5. Heavy to very heavy rainfall is also very likely in a few areas over Coastal Karnataka, and isolated areas over Kerala and Marathwada during August 3-7. Widespread rainfall with heavy to very heavy rainfall is likely over isolated areas in Gujarat state during August 5-6.

During the week of August 6-12, rainfall is likely to be normal to above normal over the core monsoon zone including central parts of the country and Peninsular India, Gujarat, and the west coast. Rainfall will likely remain normal in the rest of the country except parts of eastern and northeastern India where it is likely to be normal to below normal rains. Strong westerly/southwesterly winds along the west coast may result in widespread rainfall with isolated heavy to very heavy falls. For more details please refer Current Weather Status and Outlook for next two weeks (July 30- August 12, 2020).

Sowing Progress
According to the Ministry of Agriculture and Farmers Welfare's (MOAFW) July 31, 2020 report, overall planting for the Kharif 2020 crop season is 14 percent higher (in area), than last year but 17 percent lower than the five-year average. Planting for all major crops is higher compared to last year except for Jute and Mesta. Bihar (rice), Madhya Pradesh (soybean, rice, pulses), Rajasthan (pulses - mungbean, coarse cereals), Gujarat (groundnut), Maharashtra (soybean), and Telangana (cotton) have seen significant increases in planted area. For more details please refer All India Crop Situation dated June 26, 2020

Reservoir Storage
The Central Water Commission monitors the live storage status of 123 reservoirs around the country on a weekly basis. As per reservoir storage bulletin dated July 30, 2020, the live storage available in these reservoirs is 69.982 billion cubic meters (BCM), which is 41 percent of total live storage capacity of these reservoirs. The live storage available in these reservoirs for the corresponding period last year was 49.573 BCM (29 percent), and the average of last 10 years live storage was 68.264 BCM (40 percent).

As such, the overall storage position is better than the corresponding period of last year in the country as a whole and is also better than the average storage level of the last ten years during the corresponding period

Out of 123 reservoirs, 71 reservoirs reported more than 80 percent of normal storage levels and 52 reservoirs reported 80 percent or below of normal storage. Out of these 52 reservoirs, 13 have 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 corresponding period include Rajasthan, Jharkhand, Odisha, West Bengal, Tripura, Nagaland, Gujarat, Maharashtra, Uttar Pradesh, Uttarakhand, Madhya Pradesh, Chhattisgarh, Andhra Pradesh and Telangana (two combined projects in both states), Andhra Pradesh, Telangana, Karnataka, Kerala and Tamil Nadu. For more details please refer the Reservoir Storage Bulletin.

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

Regions	2020 Actual (mm)	Normal (mm)*	2020 Percentage Departure from Normal
Northwest India	241.4	295.0	-18%
Central India	476.0	502.8	-5%
Southern Peninsula	433.3	383.8	13%
East and Northeast India	884.8	790.1	12%
All India	**460.6**	**461.3**	**0%**

*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 July 31, 2020	Area Sown in 2019 as on July 31, 2019	Normal Area on July 31**	Y-o-Y Change	Change from Normal
Rice	26.660	22.396	39.729	19%	-33%
Pulses	11.191	9.384	12.888	19%	-13%
Coarse Cereals	14.834	13.926	18.489	7%	-20%
Oilseeds	17.534	15.012	17.808	17%	-2%
Sugarcane	5.178	5.12	4.846	1%	7%
Jute and Mesta	0.695	0.705	0.787	-1%	-12%
Cotton	12.125	10.895	12.097	11%	0%
Total	**88.217**	**77.438**	**106.644**	**14%**	**-17%**

Source: Ministry of Agriculture and Famers Welfare, Government of India
**Normal Area is the five-year average of the area from 2015-2019

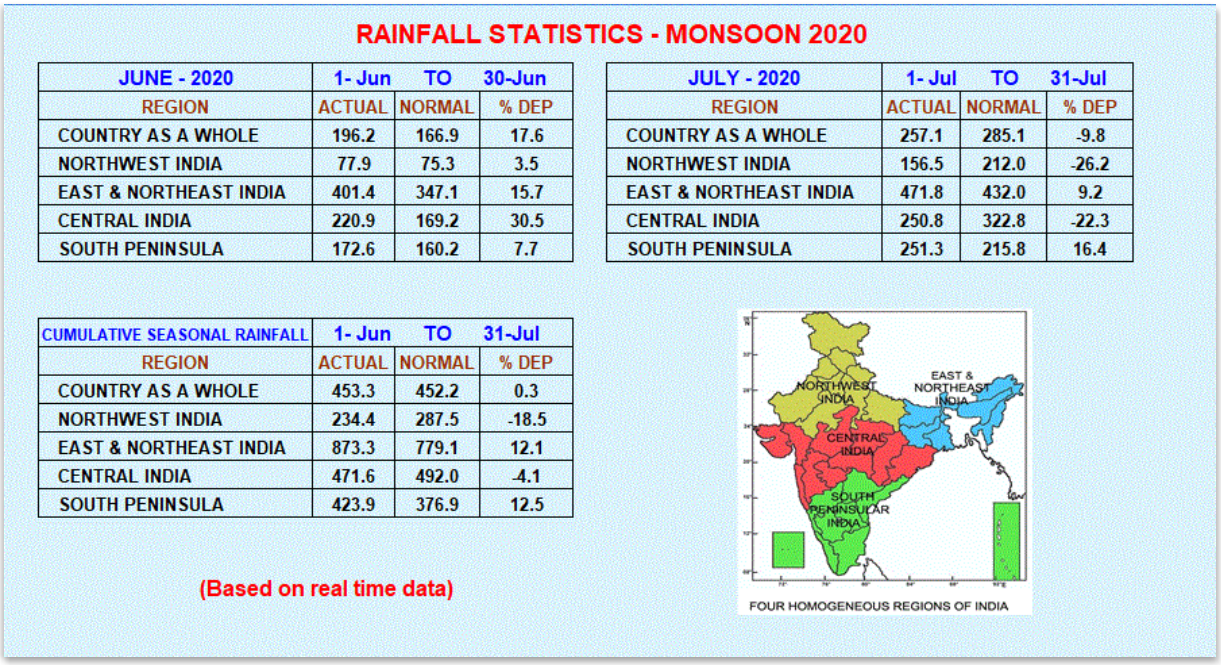
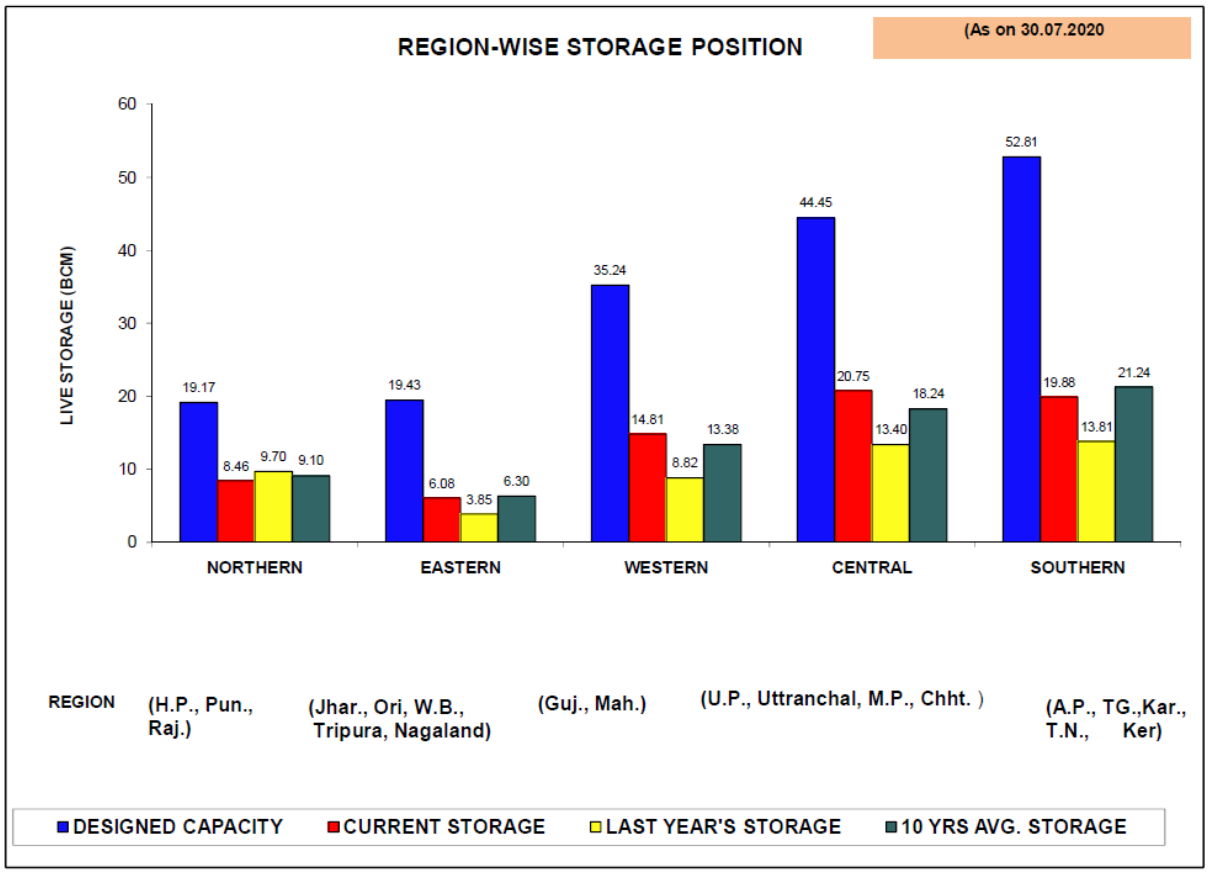


Image 1. India: Region Wise Reservoir Storage Position in Billion Cubic Meters (BCM)



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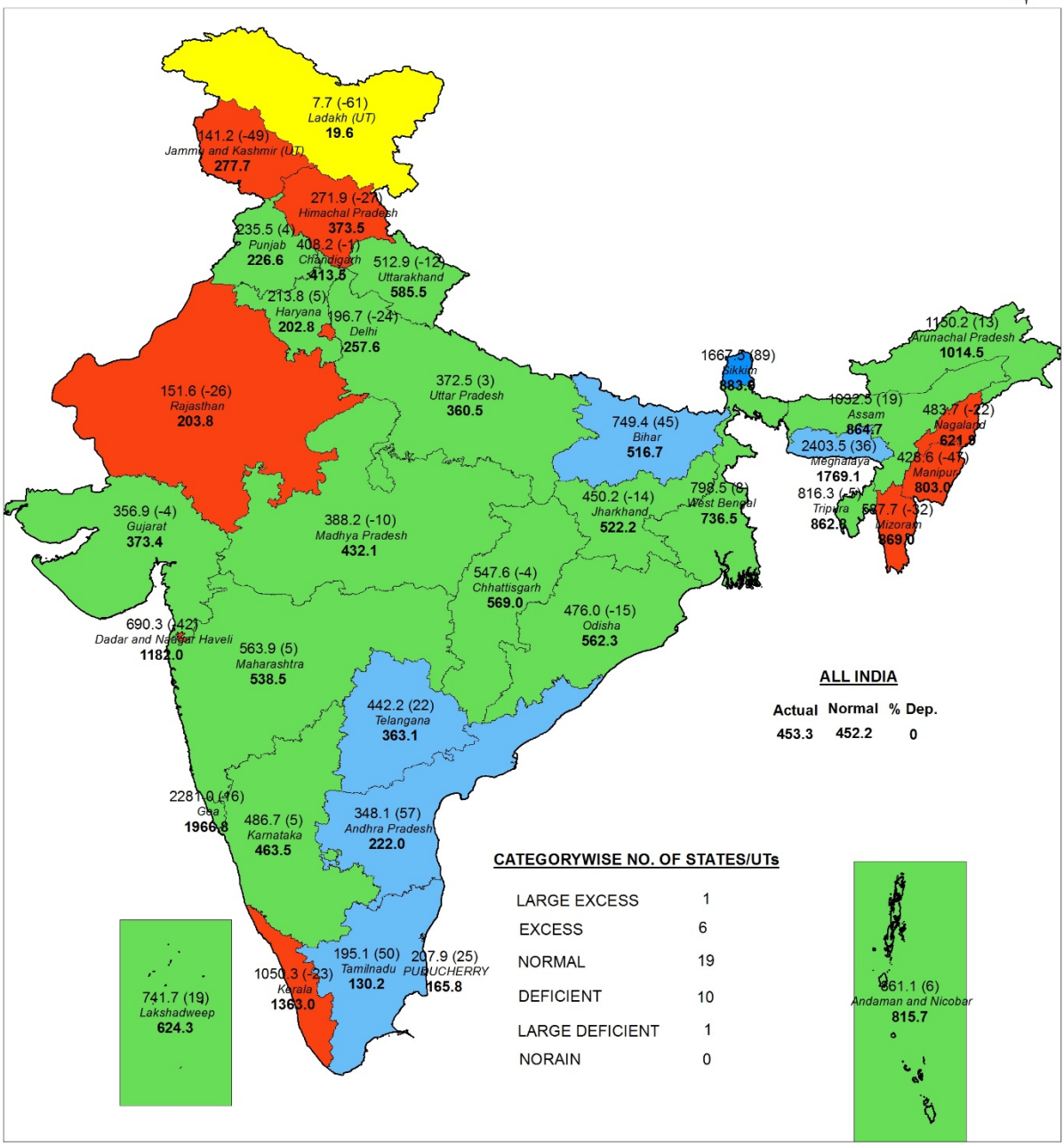
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

STATE RAINFALL MAP

Period : 01-06-2020 To 31-07-2020



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 rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

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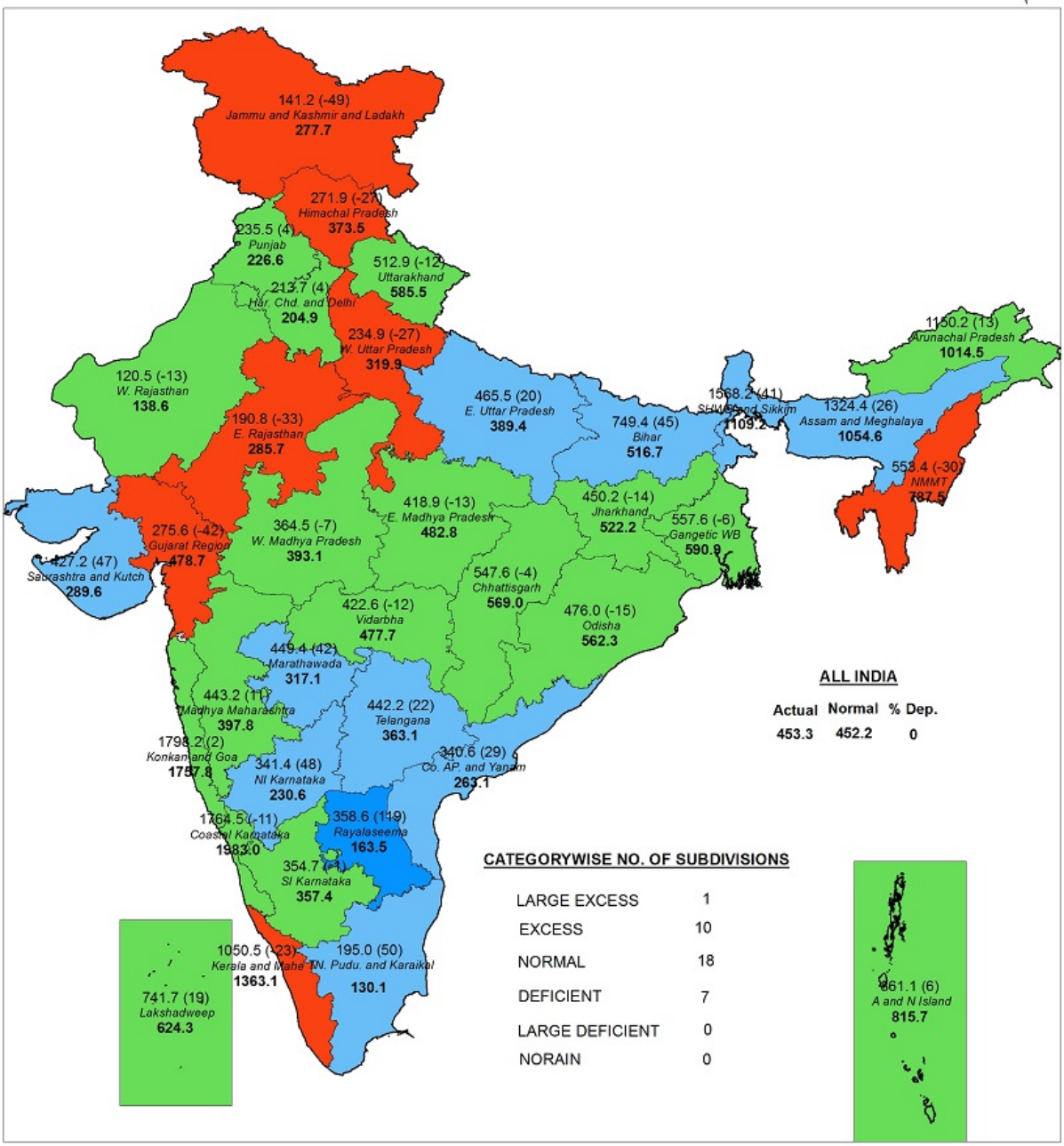
INDIA METEOROLOGICAL DEPARTMENT

जल मौसम विज्ञान प्रभाग, नई दिल्ली
HYDROMET DIVISION, NEW DELHI

SUBDIVISION RAINFALL MAP

Period : 01-06-2020 To 31-07-2020



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

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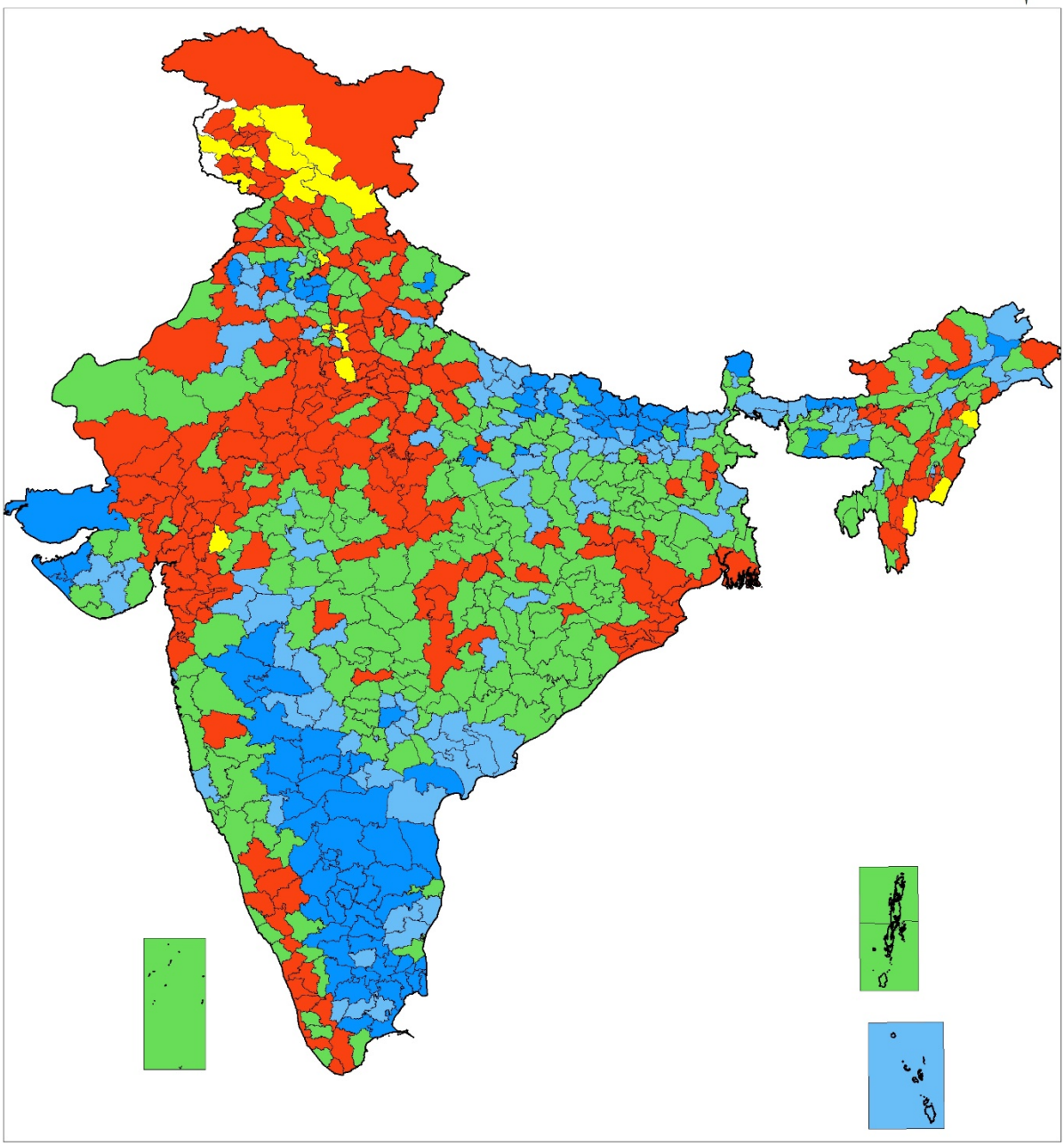
HYDROMET DIVISION, NEW DELHI

DISTRICT RAINFALL MAP

Period : 01-06-2020 To 31-07-2020

N



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NOTES :
a) RainFall figures are based on operation data.

India Meteorological Department
Hydromet Division, New Delhi

STATE-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:31-07-2020				Period:01-06-2020 To 31-07-2020			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	21.5	11.7	84%	LE	1150.2	1014.5	13%	N
2	ASSAM	21.0	9.8	114%	LE	1032.5	864.7	19%	N
3	MEGHALAYA	21.1	21.8	-3%	N	2403.5	1769.1	36%	E
4	NAGALAND	3.1	11.8	-74%	LD	483.7	621.9	-22%	D
5	MANIPUR	0.8	10.0	-92%	LD	428.6	803.0	-47%	D
6	MIZORAM	10.5	10.9	-4%	N	587.7	869.0	-32%	D
7	TRIPURA	8.6	11.2	-24%	D	816.3	862.8	-5%	N
8	SIKKIM	33.4	15.2	120%	LE	1667.5	883.9	89%	LE
9	WEST BENGAL	10.2	12.6	-19%	N	798.5	736.5	8%	N
10	JHARKHAND	3.9	8.5	-54%	D	450.2	522.2	-14%	N
11	BIHAR	8.2	10.3	-21%	D	749.4	516.7	45%	E
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	8.1	7.1	14%	N	372.5	360.5	3%	N
2	UTTARAKHAND	19.8	15.5	27%	E	512.9	585.5	-12%	N
3	HARYANA	11.5	5.6	105%	LE	213.8	202.8	5%	N
4	CHANDIGARH (UT)	5.6	8.0	-30%	D	408.2	413.5	-1%	N
5	DELHI (UT)	4.7	5.9	-21%	D	196.7	257.6	-24%	D
6	PUNJAB	5.8	7.3	-21%	D	235.5	226.6	4%	N
7	HIMACHAL PRADESH	8.3	8.6	-3%	N	271.9	373.5	-27%	D
8	JAMMU & KASHMIR (UT)	3.6	10.9	-67%	LD	141.2	277.7	-49%	D
9	LADAKH (UT)	0.0	0.4	-100%	NR	7.7	19.6	-61%	LD
10	RAJASTHAN	5.9	5.2	13%	N	151.6	203.8	-26%	D
REGION : CENTRAL INDIA									
1	ODISHA	1.4	11.2	-88%	LD	476.0	562.3	-15%	N
2	MADHYA PRADESH	2.1	11.6	-82%	LD	388.2	432.1	-10%	N
3	GUJARAT	6.3	8.0	-22%	D	356.9	373.4	-4%	N
4	DADAR & NAGAR HAVELI (UT)	6.2	35.8	-83%	LD	690.3	1182.0	-42%	D
5	DAMAN & DIU (UT)	10.0	25.0	-60%	LD	639.3	911.7	-30%	D
6	GOA	39.2	32.4	21%	E	2281.0	1966.8	16%	N
7	MAHARASHTRA	3.7	10.0	-63%	LD	563.9	538.5	5%	N
8	CHHATTISGARH	2.9	11.0	-74%	LD	547.6	569.0	-4%	N
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	31.8	12.8	149%	LE	861.1	815.7	6%	N
2	ANDHRA PRADESH	4.1	4.6	-10%	N	348.1	222.0	57%	E
3	TELANGANA	2.9	7.4	-61%	LD	442.2	363.1	22%	E
4	TAMIL NADU	2.5	2.4	3%	N	195.1	130.2	50%	E
5	PUDUCHERRY (UT)	2.1	2.1	-2%	N	207.9	165.8	25%	E
6	KARNATAKA	6.6	7.8	-15%	N	486.7	463.5	5%	N
7	KERALA	17.6	19.3	-9%	N	1050.3	1363.0	-23%	D
8	LAKSHADWEEP (UT)	27.7	6.5	326%	LE	741.7	624.3	19%	N
	COUNTRY :	6.4	8.9	-28%		453.3	452.2	0%	

CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Day:31-07-2020	Period:01-06-2020 To 31-07-2020
	NO.OF STATES	NO.OF STATES
Large Excess	6	1
Excess	2	6
Normal	11	19
Deficient	7	10
Large Deficient	10	1
NoRain	1	0
NoData	0	0

Note: "The rainfall values are rounded off upto one place of decimal"

PROGRESS OF MONSOON 2020 WEEK BY WEEK

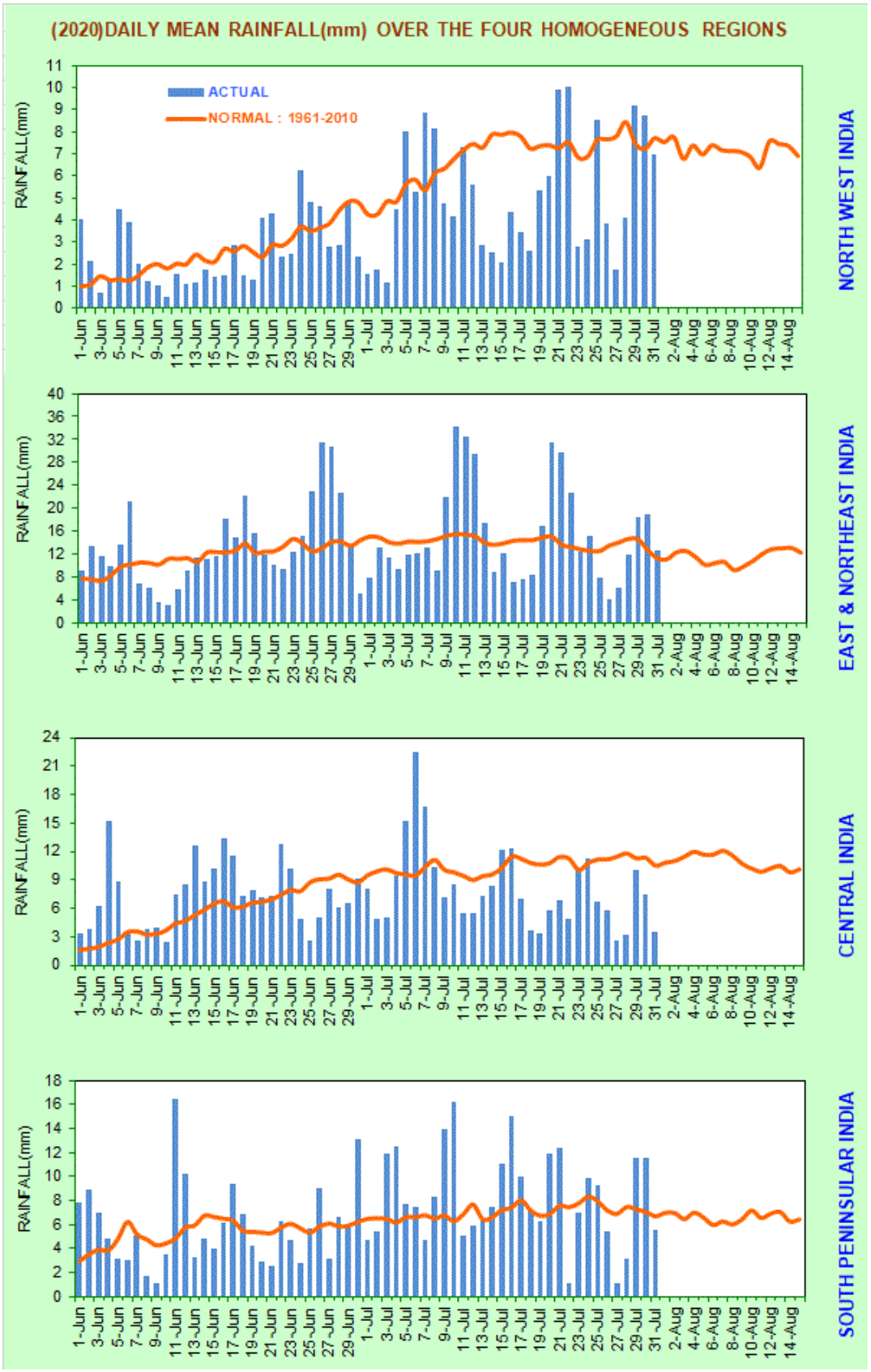
S.NO	MET.SUBDIVISION	WEEK ENDINGS																	
		3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep
1	A & N ISLANDS																		
2	ARUNACHAL PRADESH																		
3	ASSAM & MEGHALAYA																		
4	NAG.,MANI.,MIZO.&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

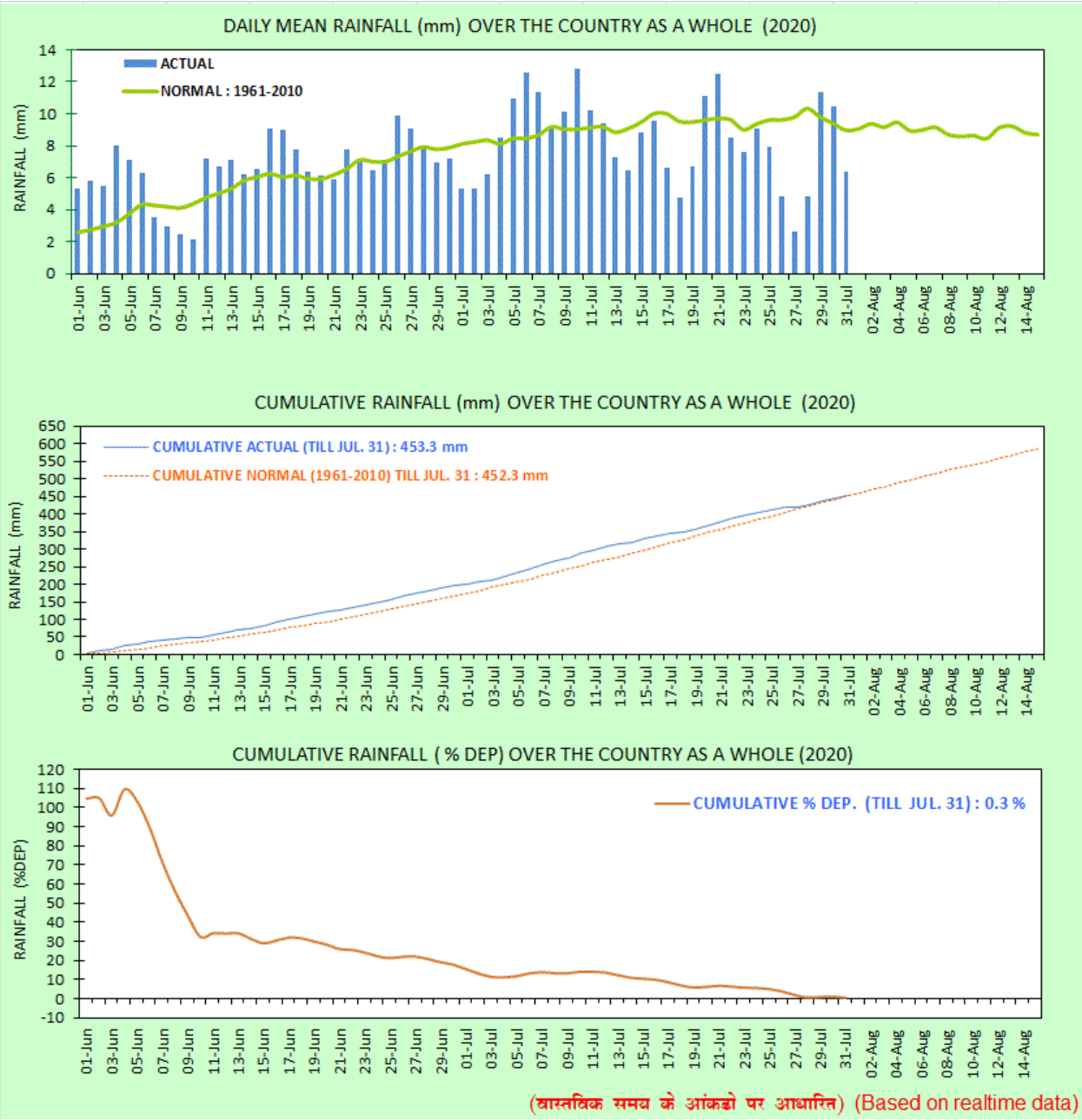
LEGEND:

- 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 आंकडों पर आधारित)

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





Attachments:

No Attachments.