USDA United States Department of Agriculture
Foreign Agricultural Service

GAIN Global Agricultural Information Network

Voluntary Report – Voluntary - Public Distribution **Date:** July 05,2020

Report Number: IN2020-0080

Report Name: Early Onset of Southwest Monsoon Leads to Accelerated Kharif Planting

Country: India

Post: Mumbai

Report Category: Agricultural Situation, Agriculture in the Economy, National Plan, Policy and Program Announcements, Agriculture in the News, Cotton and Products, Oilseeds and Products, Grain and Feed, Climate Change/Global Warming/Food Security, Market Development Reports, Sugar

Prepared By: Dhruv Sood

Approved By: Lazaro Sandoval

Report Highlights:

The Southwest Monsoon covered the entire country by June 26, twelve days ahead of the normal date of July 8. The cumulative rainfall for the Southwest Monsoon 2020 reported by the Indian Meteorological Department, as of June 29, 2020, was 18 percent higher than the fifty-year average. The early advance of the monsoon has led to a significantly faster pace of sowing of Kharif crops across India. Planted area is 104 percent higher than last year, and 68 percent higher than the five-year average led by increased area in oilseeds, pulses, cotton and rice. With timely rains and adequate reservoir storage, planting is expected to continue at an accelerated pace.

THIS REPORT CONTAINS ASSESSMENTS OF COMMODITY AND TRADE ISSUES MADE BY USDA STAFF AND NOT NECESSARILY STATEMENTS OF OFFICIAL U.S. GOVERNMENT POLICY

General Information
The Southwest Monsoon covered the entire country by June 26, twelve days ahead of the normal date of July 8. According to the Indian Meteorological Department (IMD), the early advance over central and northwest India was facilitated by the formation of a low-pressure area over the Bay of Bengal which moved west-northwestwards, and another cyclonic circulation over central India. Such early coverage of the Southwest Monsoon over the entire country last occurred in June 2013.

According to IMD, the cumulative rainfall for the Southwest Monsoon 2020, as of June 29, 2020, was 18 percent higher than the fifty-year average. The cumulative rainfall was 196.2 mm, as compared to normal average of 166.9 mm, during June 2020. As such, the monsoon is advancing normally over south and east India, with a week delay advance over northeast India, and about 7-12 days early advance over central and northwest India.

Weather Outlook
According to the IMD forecast for July 1-5, heavy to very heavy rainfall is expected in parts of Eastern Uttar Pradesh, Eastern Madhya Pradesh, Sub Himalayan West Bengal, Sikkim, Konkan and Goa, Kerala, and Coastal Karnataka. Fairly widespread rains/thundershowers are likely in the northern parts of the West Coast, over Northeast India and northern plains between July 5-7. For more details, please refer to All India Weather Summary and Bulletin.

Sowing Progress
According to the Ministry of Agriculture and Farmers Welfare's (MOAFW) June 26, 2020 report, the overall planting for Kharif 2020 season is 68 percent higher (in area) than the five-year average due to advance onset of the monsoon and timely rains. Planting for all major crops is higher compared to last year, except for Jute and Mesta. Madhya Pradesh (oilseeds - soybean), Gujarat (oilseeds – groundnut, cotton), and Maharashtra (oilseeds - soybean, pulses – arhar/pigeon pea, cotton) have seen significant increases in planted area. For more details, please refer to All India Crop Situation dated June 26, 2020.

Reservoir Storage Status
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 June 25, 2020, the live storage available in these reservoirs is 56.725 billion cubic meters (BCM), which is 33 percent of total live storage capacity of these reservoirs. However, last year, the live storage available in these reservoirs for the corresponding period was 29.166 BCM (17 percent) and the average of the last 10 years live storage was 33.207 BCM (19 percent). As such, the overall water supply situation is better than the corresponding period of last year and the average of the last ten years.

Out of 123 reservoirs, 104 reservoirs reported more than 80 percent of normal storage and 19 reservoirs reported 80 percent or below of normal storage. Out of these 19 reservoirs, 9 have storage levels of up to 50 percent. Normal storage means average storage of the last ten years, close to normal storage represents a shortfall of up to 20 percent of normal levels, deficient storage is where the shortfall is greater than 20 percent and up to 60 percent of normal levels, and highly deficient represents a shortfall more than 60 percent of normal levels.

States with greater levels of stored water (in percentage) than last year for the corresponding period include Rajasthan, Punjab, 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 June 30, 2020

Regions	2020 Actual (mm)	Normal (mm)*	2020 Percentage Departure from Normal
Northwest India	77.9	75.3	+4%
Central India	220.9	169.2	+31%
Southern Peninsula	172.6	160.2	+8%
East and Northeast India	401.4	347.1	+16%
All India	**196.2**	**166.9**	**+18%**

*Normal Rainfall is the fifty-year average from 1951-2000
Source: Indian Meteorological Department

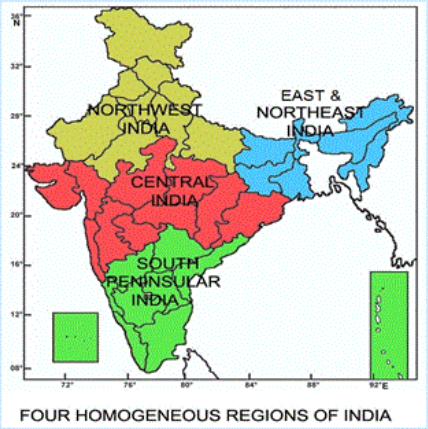
Table 2. India: *Kharif* 2020 Sown Area (in million hectares)

Crop	Area Sown in 2020 as on June 26, 2020	Area Sown in 2019 as on June 26, 2019	Normal Area on June 26**	Y-o-Y Change	Change from Normal
Rice	3.771	2.793	3.205	35%	18%
Pulses	1.940	0.603	1.145	222%	69%
Coarse Cereals	4.796	2.448	2.609	96%	84%
Oilseeds	8.331	1.332	2.407	526%	246%
Sugarcane	4.969	4.903	4.777	1%	4%
Jute and Mesta	0.588	0.666	0.698	-12%	-16%
Cotton	7.169	2.708	3.923	165%	83%
Total	**31.563**	**15.453**	**18.764**	**104%**	**68%**

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

RAINFALL STATISTICS - MONSOON 2020

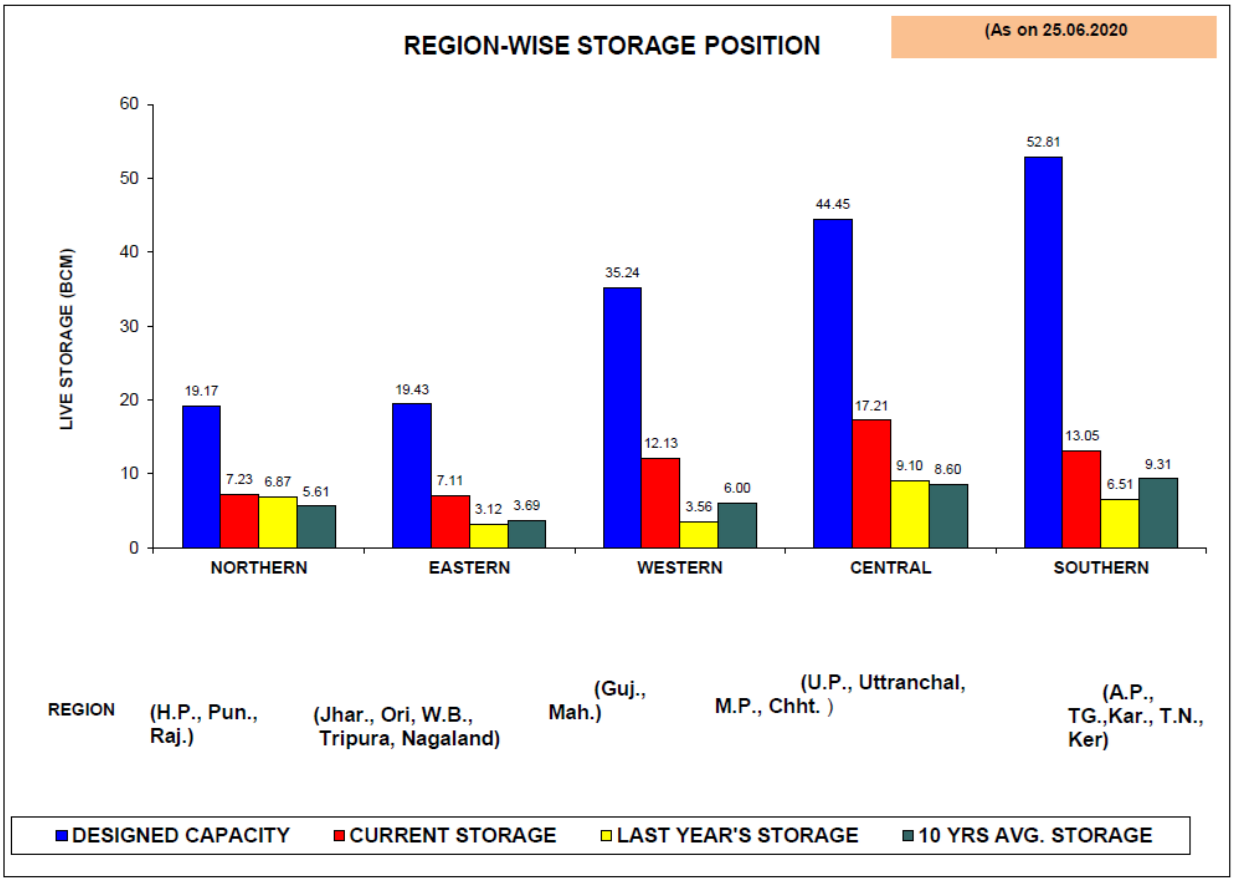
JUNE - 2020	1- Jun	TO	29-Jun
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	189.0	159.0	18.8
NORTHWEST INDIA	75.5	70.5	7.1
EAST & NORTHEAST INDIA	395.4	332.8	18.8
CENTRAL INDIA	211.9	160.5	32.0
SOUTH PENINSULA	159.6	154.0	3.7



FOUR HOMOGENEOUS REGIONS OF INDIA

(Based on real time data)

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



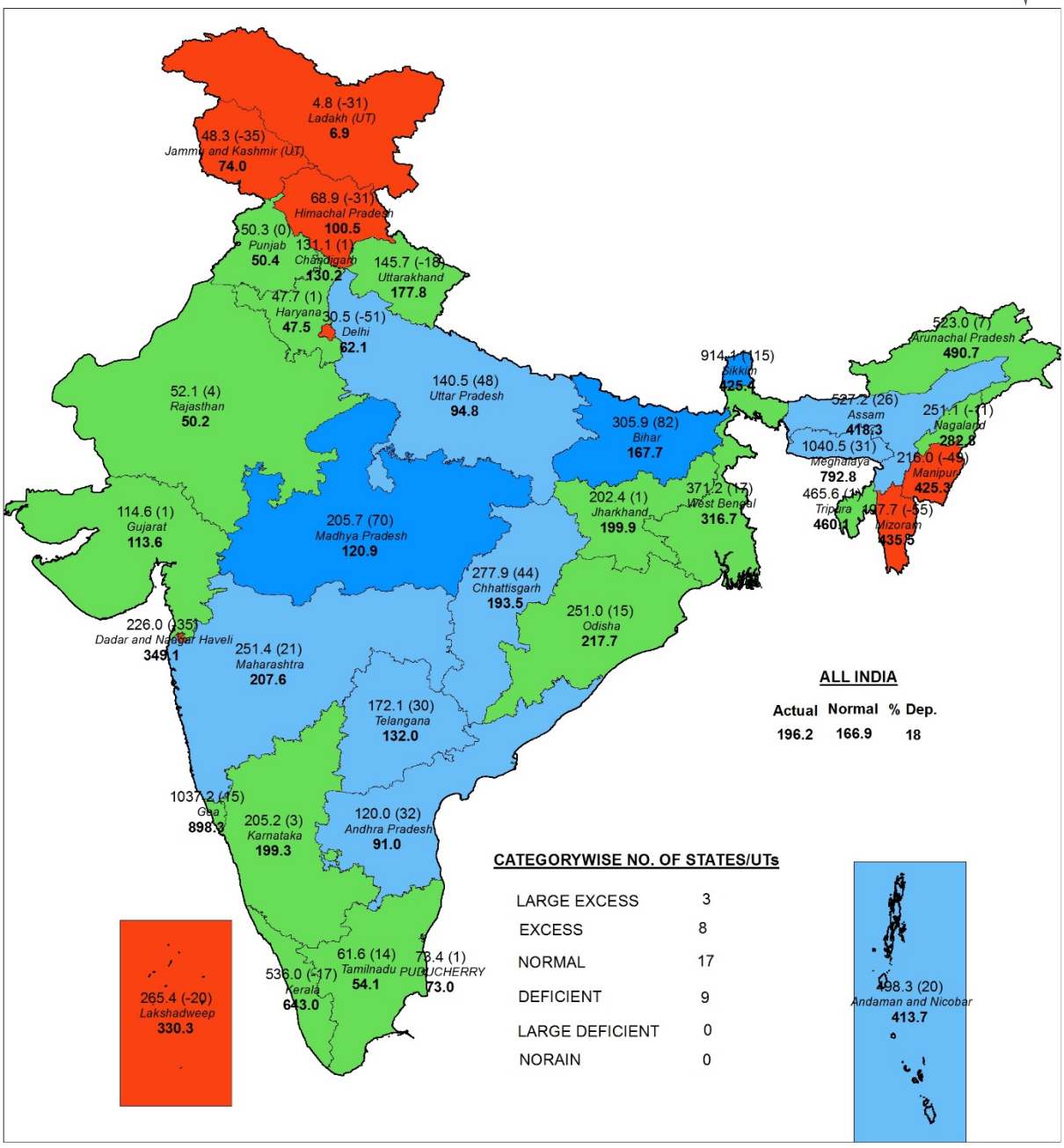
Source: Ministry of Water Resources, Government of India

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

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

STATE RAINFALL MAP

Period : 01-06-2020 To 30-06-2020



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 :

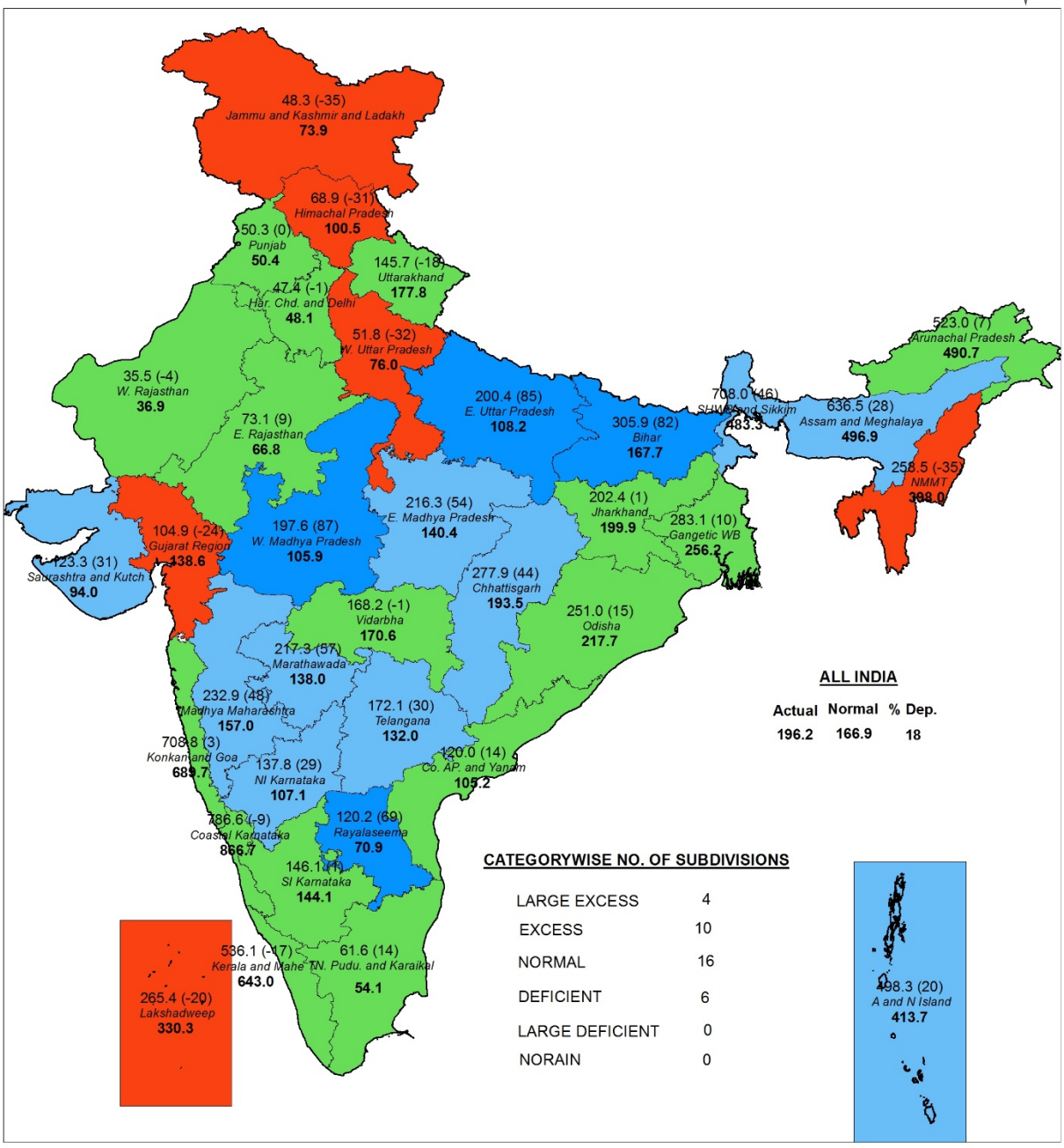
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

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

SUBDIVISION RAINFALL MAP

Period : 01-06-2020 To 30-06-2020



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 :

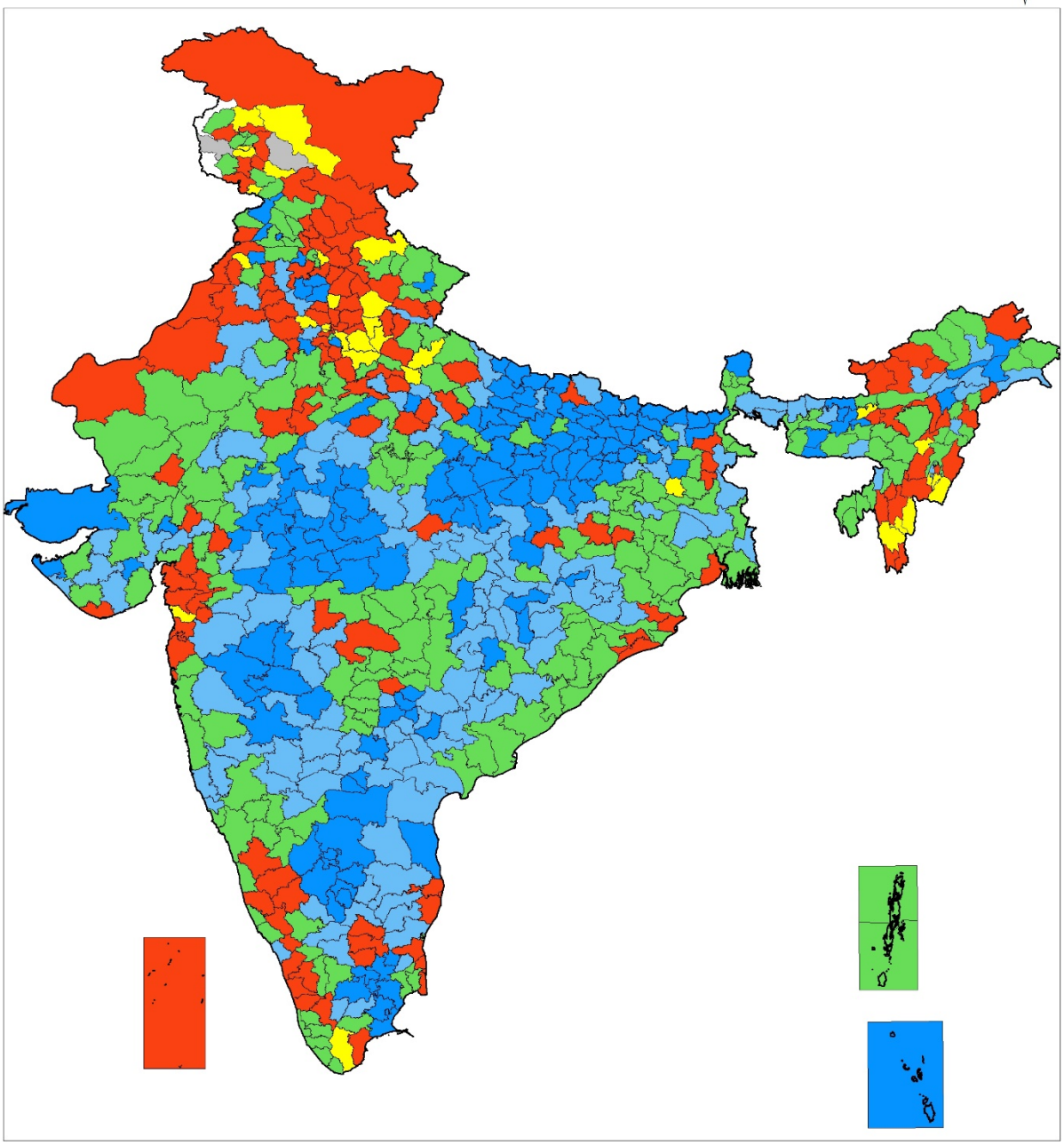
a) RainFall figures are based on operation data.
b) Small figures indicate actual rainfal (mm), while bold figures indicate Normal rainfall (mm).
c) Percentage Departures of rainfall are shown in brackets.

भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

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

DISTRICT RAINFALL MAP

Period : 01-06-2020 To 30-06-2020



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.

India Meteorological Department
Hydromet Division, New Delhi

STATE-WISE RAINFALL DISTRIBUTION

S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	Day:30-06-2020				Period:01-06-2020 To 30-06-2020			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	1.3	16.9	-92%	LD	523.0	490.7	7%	N
2	ASSAM	6.2	13.5	-54%	D	527.2	418.3	26%	E
3	MEGHALAYA	4.0	30.8	-87%	LD	1040.5	792.8	31%	E
4	NAGALAND	8.9	12.3	-27%	D	251.1	282.8	-11%	N
5	MANIPUR	0.5	12.5	-96%	LD	216.0	425.3	-49%	D
6	MIZORAM	8.5	14.8	-42%	D	197.7	435.5	-55%	D
7	TRIPURA	3.2	15.4	-79%	LD	465.6	460.1	1%	N
8	SIKKIM	10.5	18.2	-42%	D	914.1	425.4	115%	LE
9	WEST BENGAL	3.9	14.5	-73%	LD	371.2	316.7	17%	N
10	JHARKHAND	2.9	9.6	-70%	LD	202.4	199.9	1%	N
11	BIHAR	9.8	12.9	-24%	D	305.9	167.7	82%	LE
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	3.1	5.8	-47%	D	140.5	94.8	48%	E
2	UTTARAKHAND	5.9	10.0	-41%	D	145.7	177.8	-18%	N
3	HARYANA	3.4	4.4	-23%	D	47.7	47.5	1%	N
4	CHANDIGARH (UT)	0.6	9.3	-94%	LD	131.1	130.2	1%	N
5	DELHI (UT)	1.6	5.1	-69%	LD	30.5	62.1	-51%	D
6	PUNJAB	0.2	4.7	-96%	LD	50.3	50.4	0%	N
7	HIMACHAL PRADESH	1.4	6.6	-78%	LD	68.9	100.5	-31%	D
8	JAMMU & KASHMIR (UT)	0.9	3.6	-75%	LD	48.3	74.0	-35%	D
9	LADAKH (UT)	0.0	0.0	-100%	NR	4.8	6.9	-31%	D
10	RAJASTHAN	2.6	3.9	-32%	D	52.1	50.2	4%	N
REGION : CENTRAL INDIA									
1	ODISHA	9.9	9.4	6%	N	251.0	217.7	15%	N
2	MADHYA PRADESH	8.8	7.0	26%	E	205.7	120.9	70%	LE
3	GUJARAT	2.5	6.4	-61%	LD	114.6	113.6	1%	N
4	DADAR & NAGAR HAVELI (UT)	17.3	19.2	-10%	N	226.0	349.1	-35%	D
5	DAMAN & DIU (UT)	6.2	14.4	-57%	D	128.2	280.6	-54%	D
6	GOA	28.7	41.2	-30%	D	1037.2	898.3	15%	N
7	MAHARASHTRA	14.2	9.8	45%	E	251.4	207.6	21%	E
8	CHHATTISGARH	6.5	11.3	-43%	D	277.9	193.5	44%	E
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	35.7	14.5	146%	LE	498.3	413.7	20%	E
2	ANDHRA PRADESH	16.9	3.0	462%	LE	120.0	91.0	32%	E
3	TELANGANA	7.5	4.9	53%	E	172.1	132.0	30%	E
4	TAMIL NADU	7.6	1.4	444%	LE	61.6	54.1	14%	N
5	PUDUCHERRY (UT)	5.8	1.2	385%	LE	73.4	73.0	1%	N
6	KARNATAKA	9.7	8.4	15%	N	205.2	199.3	3%	N
7	KERALA	44.6	27.1	65%	LE	536.0	643.0	-17%	N
8	LAKSHADWEEP (UT)	1.0	10.9	-91%	LD	265.4	330.3	-20%	D
	COUNTRY :	7.2	7.9	-9%		196.2	166.9	18%	

CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Day:30-06-2020	Period:01-06-2020 To 30-06-2020
	NO.OF STATES	NO.OF STATES
Large Excess	5	3
Excess	3	8
Normal	3	17
Deficient	12	9
Large Deficient	13	0
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

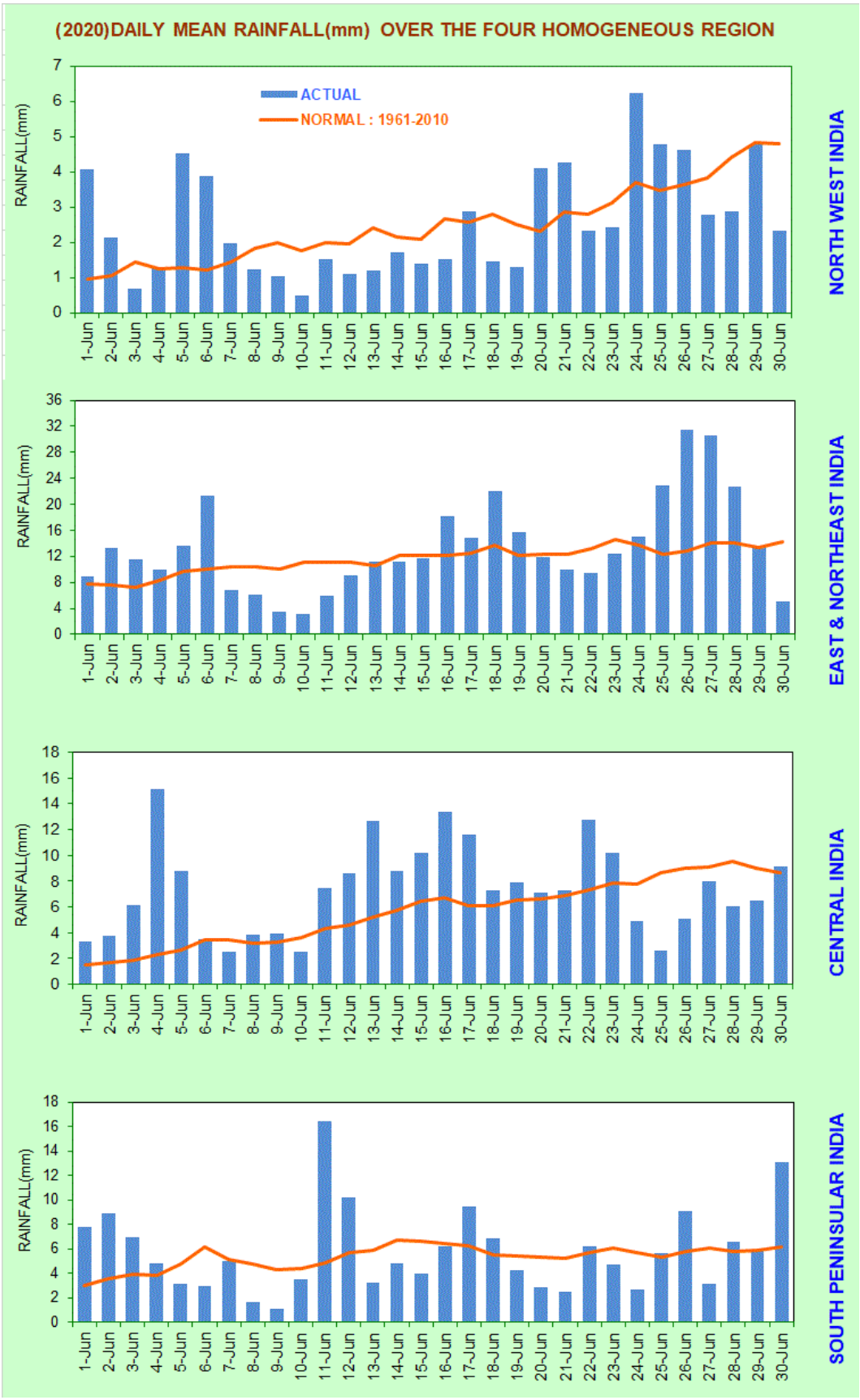
S.NO	MET.SUBDIVISION	WEEK ENDINGS																	
		3-Jun	10-Jun	17-Jun	24-Jun	1-Jul	8-Jul	15-Jul	22-Jul	29-Jul	5-Aug	12-Aug	19-Aug	26-Aug	2-Sep	9-Sep	16-Sep	23-Sep	30-Sep
1	A & N ISLANDS																		
2	ARUNACHAL PRADESH																		
3	ASSAM & MEGHALAYA																		
4	NAG.,MANI.,MIZO.& 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																		

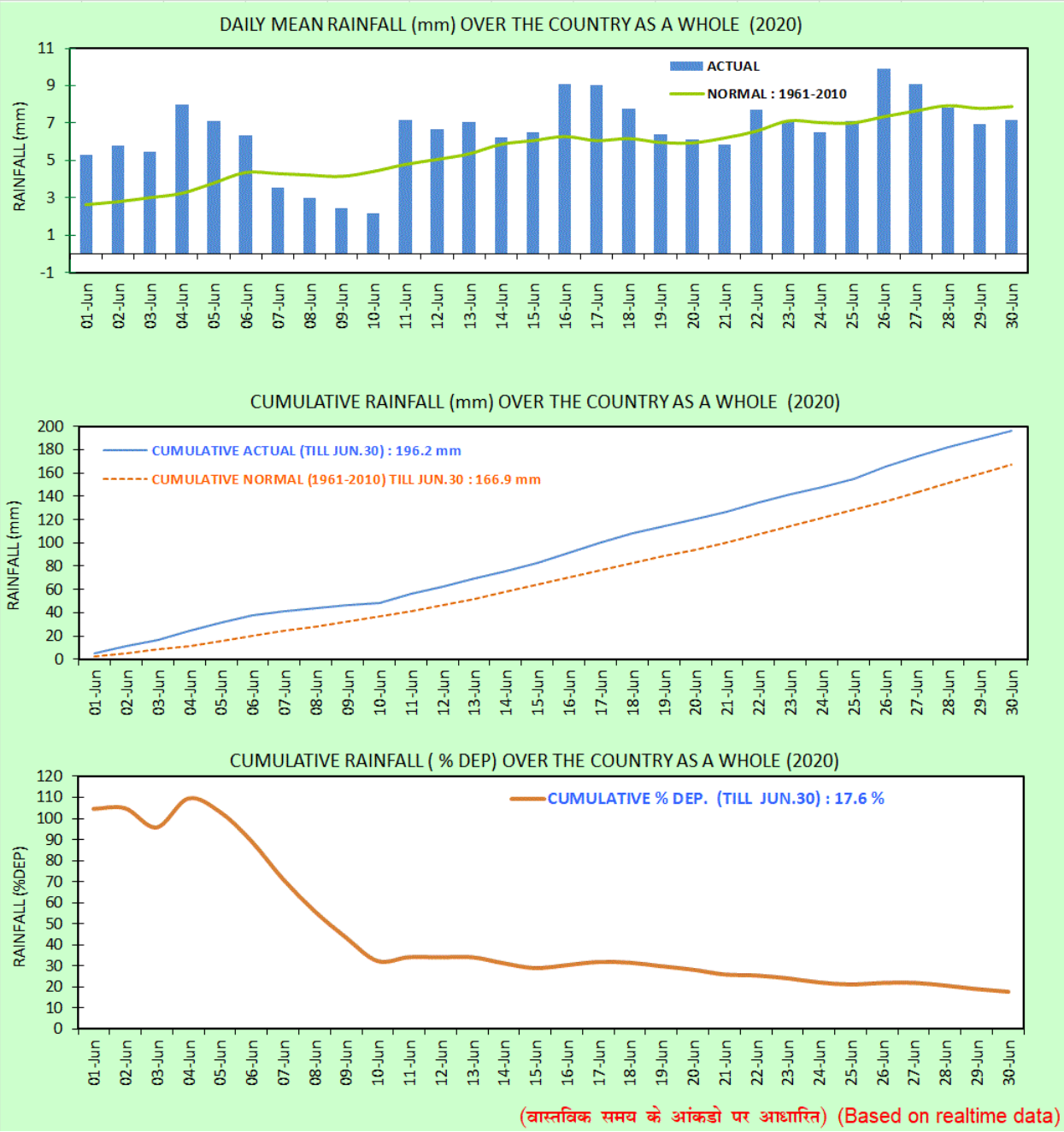
LEGEND:

- 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 REGION





Attachments:

No Attachments.