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**Date:** 8/5/2019

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## India

**Post:** New Delhi

### Monsoon Update July 2019

**Report Categories:**

Agriculture in the Economy

Agriculture in the News

Climate Change/Global Warming/Food Security

Policy and Program Announcements

Cotton and Products

Grain and Feed

Oilseeds and Products

**Approved By:**

Lazaro Sandoval

**Prepared By:**

Dhruv Sood

**Report Highlights:**

On August 1, 2019, the Indian Meteorological Department (IMD) published its long-range forecast for the second half of the southwest monsoon (August to September), predicting normal rainfall for 2019. The rainfall level is expected to be consistent with the long period average (LPA). Overall planting for *Kharif 2019* season is 6 percent slower than the same period last year due to delayed rains during the first half of the monsoon. The monsoon later intensified during the last week of July leading to an increase in the pace of sowings in Central and Southern India and reducing the overall rainfall deficit.

## General Overview

According to IMD reports, the southwest monsoon set over the state of Kerala on June 8, 2019 later than its normal date of June 1, 2019. The advance of the southwest monsoon over south, central and east India was delayed by about 10 to 15 days against their normal dates due to the formation of Cyclone ‘Vayu’ over the Arabian Sea. But the southwest monsoon advanced and covered the entire country on July 19, 2018. However, the overall monsoon rains in India are 9 percent lower than the long period average (LPA). During the last week of July (July 25 to 31), 70 percent of all states and union territories received normal to excess rains which lowered the overall rain deficit. The central Indian states of Madhya Pradesh, Maharashtra and Chhattisgarh, and southern state of Telangana received significant excess rains during the last week of July. In total, around 55 percent of the total 677 districts across India have received normal to excess rains during the monsoon season.

## IMD Long Range Forecast for Second Half of Southwest Monsoon

On August 1, 2019, the Indian Meteorological Department (IMD) published its long-range forecast for the second half of the southwest monsoon (August to September) predicting normal rainfall for 2019. The rainfall from August to September is expected to match the long period average (LPA). The LPA of rainfall for India for the second half of the monsoon season (August to September) based on the 1961-2010 period is 42.83 cm (49 percent of the average season rainfall). For more details refer - [Press Release - Long Range Forecast for the Rainfall during Second Half \(August –September\)](#)

## Weather Outlook for Next Two Weeks

During the first week of August, widespread to isolated heavy rainfall is likely over East (Assam, Meghalaya, West Bengal Sikkim), Central (Madhya Pradesh, Gujarat, Maharashtra, Goa) and Northwest India (Punjab, Haryana, Delhi, Himachal Pradesh, Uttarakhand) and along the west coast. Scattered to widespread rainfall is likely over the rest of the country except for southeast peninsular India, where rainfall is likely to be isolated. For more details, refer [IMD outlook for next two weeks \(Aug 1-14\)](#).

## Sowing Progress

According to the Ministry of Agriculture and Farmers Welfare’s (MOAFW) July 26, 2019 report, the overall planting for *Kharif 2019* season is 7 percent lower (in area) than the five-year average due to delayed rains during the first half of monsoon. Planting for all major crops is lower compared to last year except for cotton. Maharashtra and Rajasthan have seen significant increases in the cotton area. Producers have shifted from soybean and pulses (Maharashtra), and coarse cereals (Rajasthan) due to delayed rains and higher cotton prices.

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**Table 1. India: *Kharif* 2019 Sown Area (in million hectares)**

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Crop	Area Sown in 2019 on July 26, 2019	Area Sown in 2018 on July 26, 2018	Normal Area on July 26**	Y-o-Y Change	Change from Normal
Rice	18.514	19.769	21.571	-6%	-14%
Pulses	8.292	10.184	9.216	-19%	-10%
Coarse Cereals	11.900	13.058	13.518	-9%	-12%
Oilseeds	13.366	14.092	14.224	-5%	-6%
Sugarcane	5.230	5.545	4.774	-6%	10%
Jute and Mesta	0.682	0.718	0.737	-5%	-7%
Cotton	10.895	10.252	10.259	6%	6%
<b>Total</b>	<b>68.879</b>	<b>73.618</b>	<b>74.299</b>	<b>-6%</b>	<b>-7%</b>

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

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

**Table 2. India: Southwest Monsoon Regional Rainfall Distribution**  
June 1-August 1, 2019

Regions	2019 Actual (mm)	Normal (mm)*	2019 Percentage Departure from Normal
Northwest India	270.3	295.0	-8%
Central India	482.8	502.8	-4%
Southern Peninsula	309.9	383.8	-19%
East and Northeast India	705.2	790.1	-11%
<b>All India</b>	<b>418.9</b>	<b>461.3</b>	<b>-9%</b>

\* Normal rainfall is the fifty-year average of rainfall from 1951-2000

Source: Indian Meteorological Department

**Table 3. India: Storage Status at 91 Major Reservoirs in Billion Cubic Meters (BCM)**

Region	Volume on July 25, 2019 (in BCM)	Total Capacity (in BCM)	Percentage of Capacity on July 25, 2019	Percentage of Capacity on July 25, 2018	10-Year Average Capacity Level on July 25
Northern Region	8.56	18.01	48%	25%	40%
Eastern Region	3.11	18.83	17%	37%	30%
Western Region	6.26	32.31	19%	32%	32%
Central Region	10.55	42.30	25%	33%	36%
Southern Region	12.37	51.59	24%	56%	37%
<b>All India</b>	<b>40.85</b>	<b>163.04</b>	<b>25%</b>	<b>40%</b>	<b>35%</b>

Source: Ministry of Water Resources

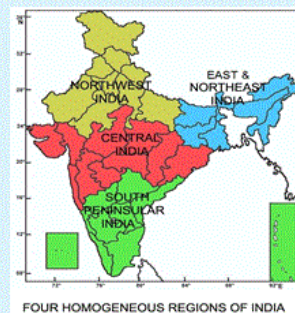
**Image 1: India: Monthly Rainfall Statistics in mm (southwest monsoon 2019)**

**RAINFALL STATISTICS - MONSOON 2019**

JUNE - 2019	1- Jun	TO	30-Jun
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	112.1	166.9	-32.8
NORTHWEST INDIA	51.0	75.3	-32.2
EAST & NORTHEAST INDIA	218.2	347.1	-37.1
CENTRAL INDIA	117.3	169.2	-30.7
SOUTH PENINSULA	112.8	160.2	-29.6

CUMULATIVE SEASONAL RAINFALL	1- Jun	TO	31-Jul
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	410.5	452.2	-9.2
NORTHWEST INDIA	265.7	287.5	-7.6
EAST & NORTHEAST INDIA	697.2	779.1	-10.5
CENTRAL INDIA	467.7	492.0	-4.9
SOUTH PENINSULA	306.7	376.9	-18.6

JULY - 2019	1- Jul	TO	31-Jul
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	298.4	285.4	4.6
NORTHWEST INDIA	214.7	212.2	1.2
EAST & NORTHEAST INDIA	479.0	432.0	10.9
CENTRAL INDIA	350.4	322.8	8.5
SOUTH PENINSULA	193.9	216.7	-10.5



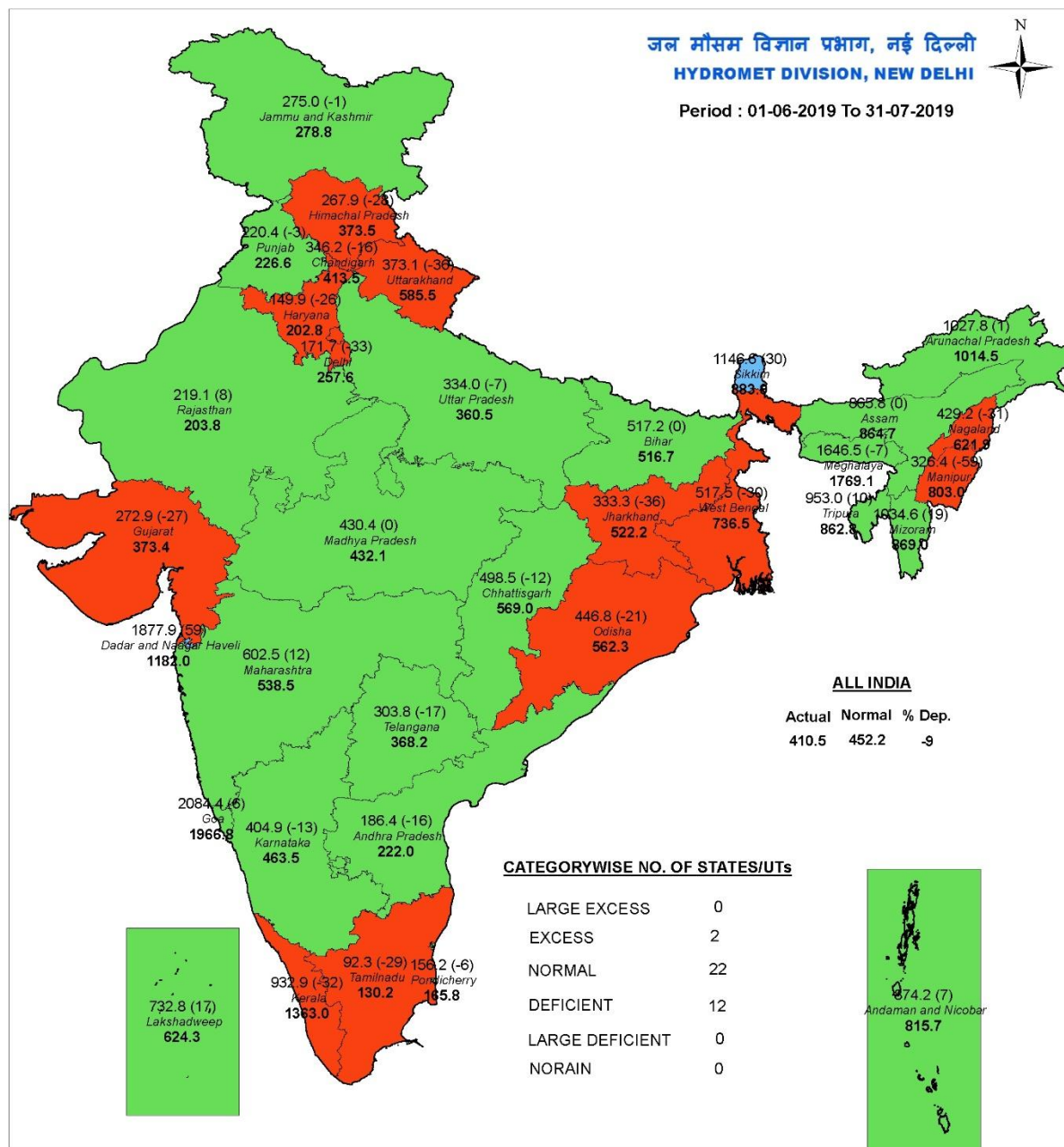
**(Based on real time data)**

\* Normal rainfall is the fifty-year average of rainfall from 1951-2000

Source: Indian Meteorological Department



## STATE RAINFALL MAP

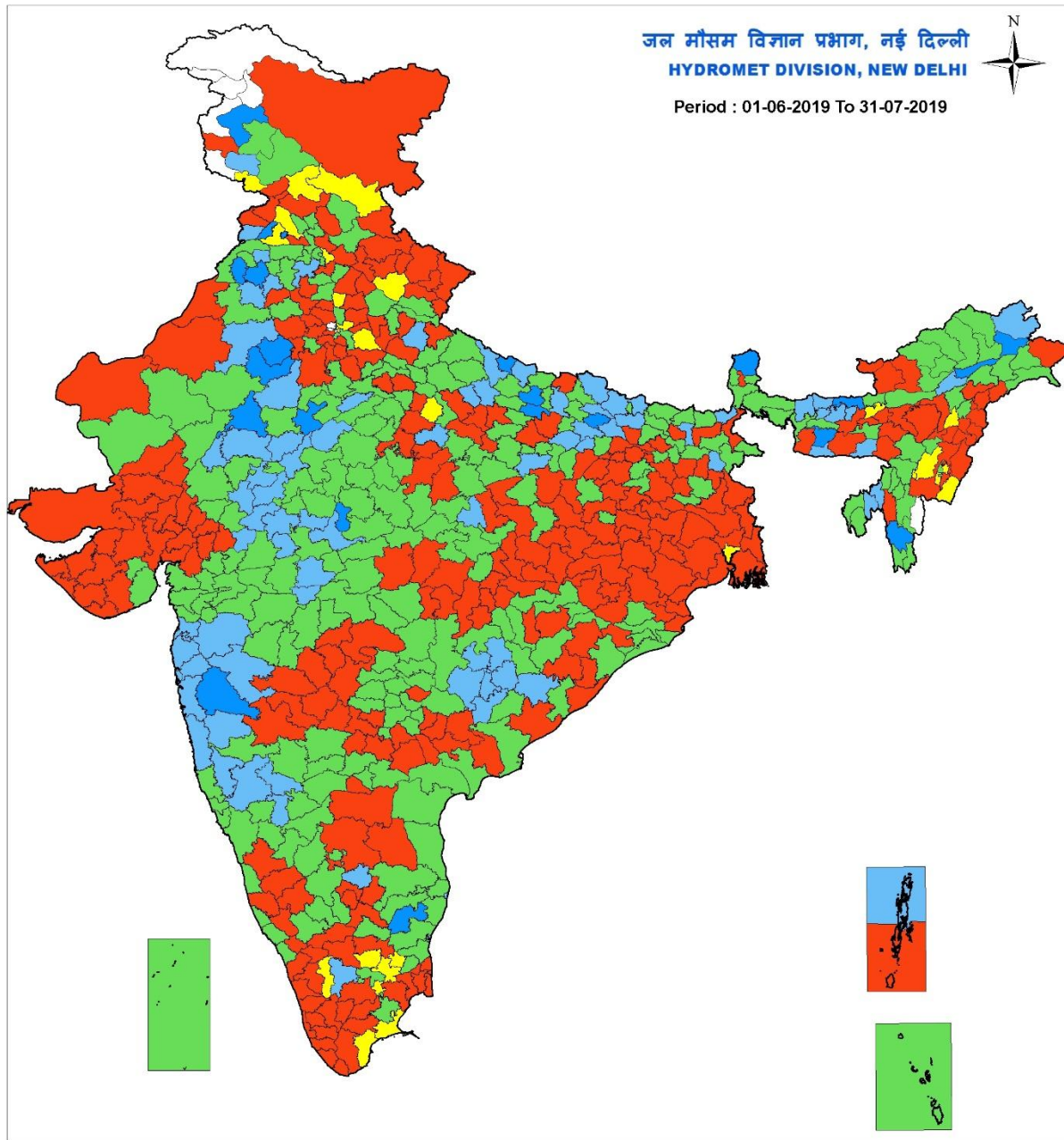






भारत मौसम विज्ञान विभाग  
INDIA METEOROLOGICAL DEPARTMENT

### DISTRICT RAINFALL MAP



**Legend**

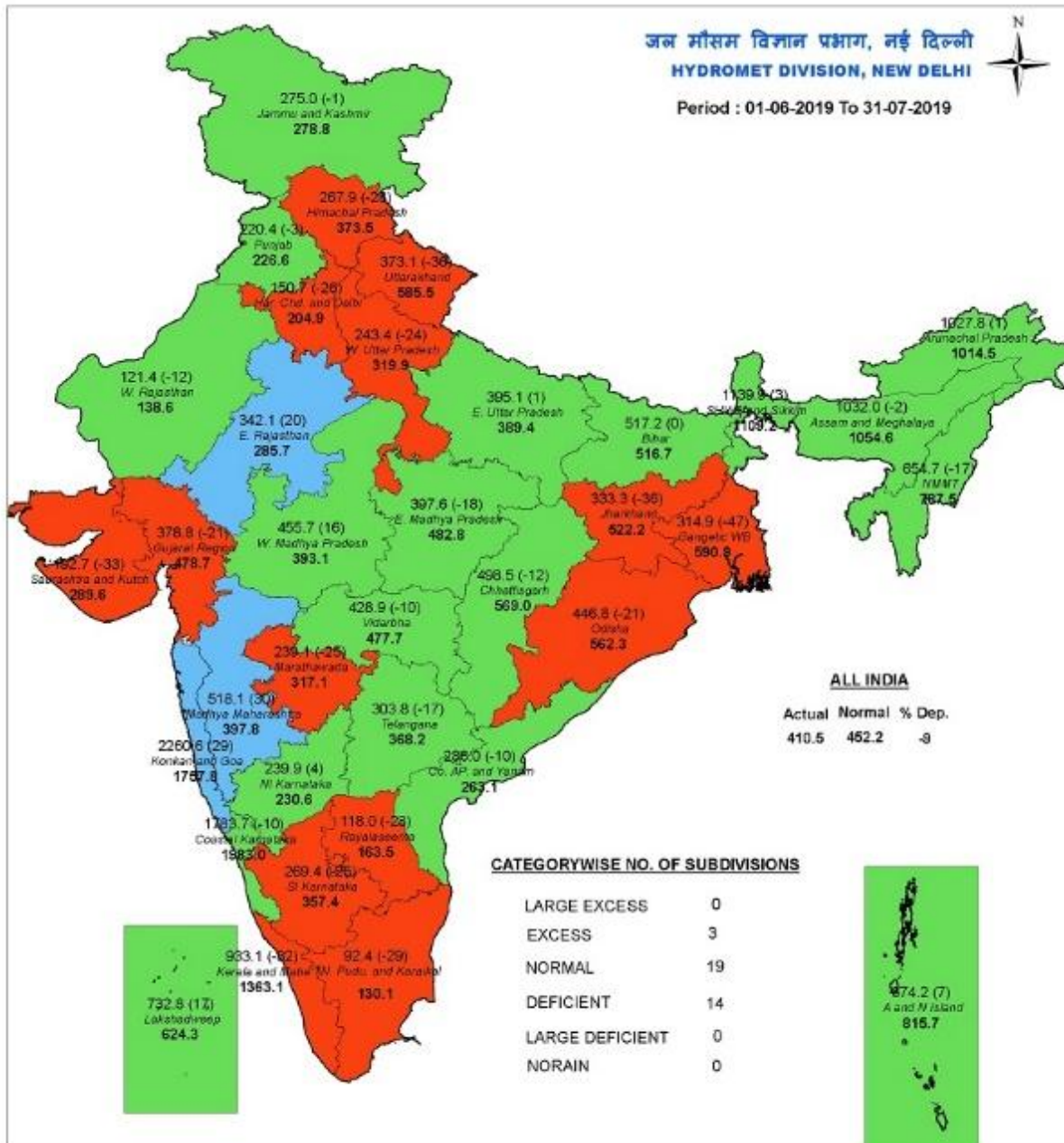
Large Excess [ 60% or more] Excess [ 20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-99% to -60%] No Data [-100%] No Rain

**NOTES :**

a) RainFall figures are based on operation data.




### SUBDIVISION RAINFALL MAP





# PROGRESS OF MONSOON 2019 WEEK BY WEEK


S.NO	MET.SUBDIVISION	WEEK ENDINGS													
		5-Jun	12-Jun	19-Jun	26-Jun	3-Jul	10-Jul	17-Jul	24-Jul	31-Jul	7-Aug	14-Aug	21-Aug	28-Aug	4-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.														
29	TELANGANA														
30	RAYALASEEMA														
31	TAMIL NADU														
32	COASTAL KARNATAKA														
33	N.I.KARNATAKA														
34	S.I.KARNATAKA														
35	KERALA														
36	LAKSHADWEEP														


## LEGEND:


 LARGE EXCESS  
+60% OR MORE

 EXCESS  
+20% TO +59%

 NORMAL  
+19% TO -19%

 DEFICIENT  
-20% TO -59%

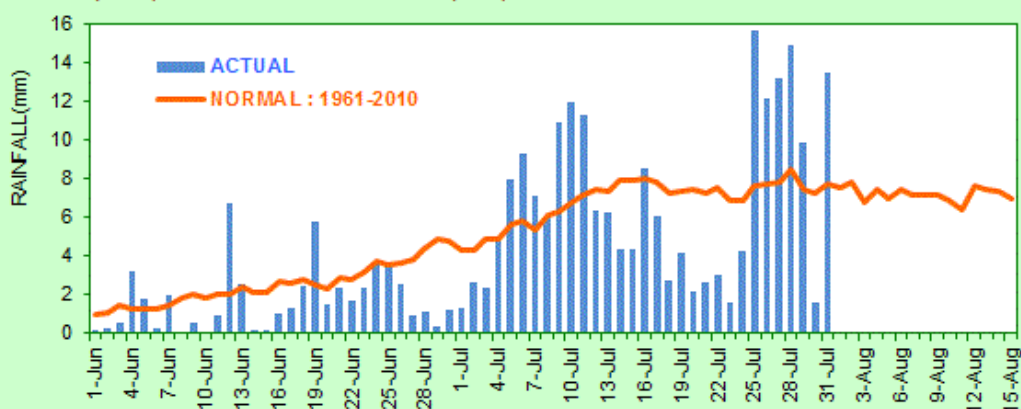
 LARGE DEFICIENT  
-60% OR LESS

 NO RAIN

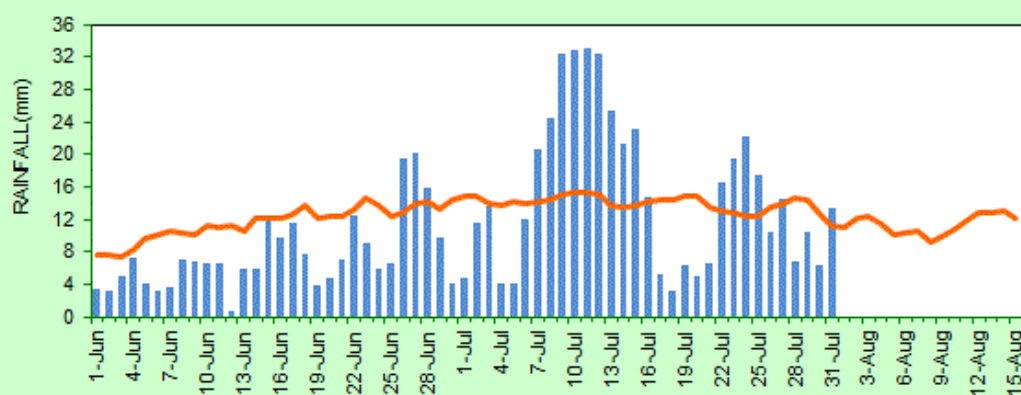
(वास्तविक समय के आंकड़ों पर आधारित)



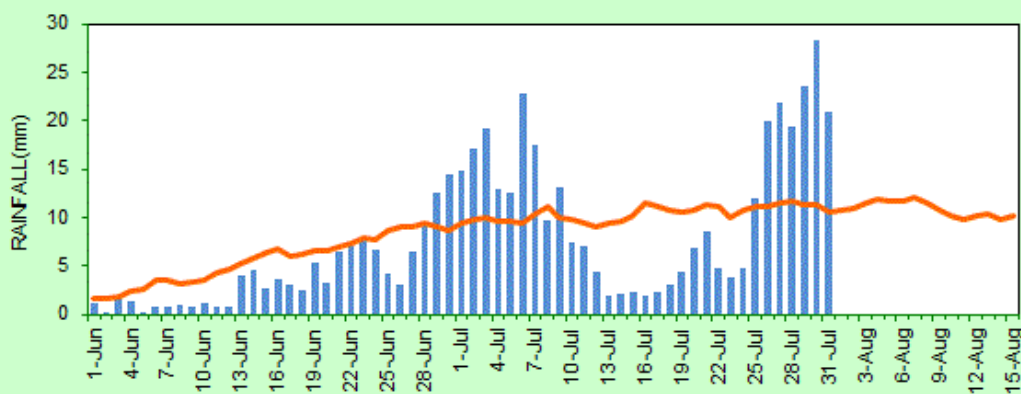
(2019) DAILY MEAN RAINFALL(mm) OVER THE FOUR HOMOGENEOUS REGION



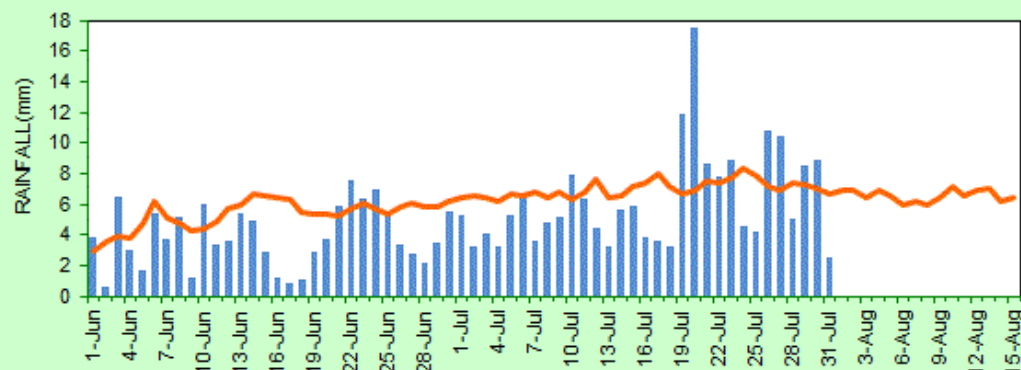
NORTH WEST INDIA



EAST & NORTHEAST INDIA



CENTRAL INDIA



SOUTH PENINSULAR INDIA



India Meteorological Department  
Hydromet Division, New Delhi

### STATE-WISE RAINFALL DISTRIBUTION

		Week:25-07-2019 To 31-07-2019				Period:01-06-2019 To 31-07-2019			
S NO	MET. SUBDIVISION/UT/STATE/DISTRICT	ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	95.2	105.8	-10%	N	1027.8	1014.5	1%	N
2	ASSAM	81.6	84.8	-4%	N	865.8	864.7	0%	N
3	MEGHALAYA	101.6	218.3	-53%	D	1646.5	1769.1	-7%	N
4	NAGALAND	51.1	71.0	-28%	D	429.2	621.9	-31%	D
5	MANIPUR	44.4	84.8	-48%	D	326.4	803.0	-59%	D
6	MIZORAM	77.2	101.7	-24%	D	1034.6	869.0	19%	N
7	TRIPURA	98.7	95.0	4%	N	953.0	862.8	10%	N
8	SIKKIM	100.2	110.6	-9%	N	1146.6	883.9	30%	E
9	WEST BENGAL	78.1	91.5	-15%	N	517.5	736.5	-30%	D
10	JHARKHAND	80.6	73.0	10%	N	333.3	522.2	-36%	D
11	BIHAR	61.8	77.3	-20%	D	517.2	516.7	0%	N
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	55.7	64.3	-13%	N	334.0	360.5	-7%	N
2	UTTARAKHAND	82.4	106.6	-23%	D	373.1	585.5	-36%	D
3	HARYANA	37.4	36.7	2%	N	149.9	202.8	-26%	D
4	CHANDIGARH (UT)	44.3	75.6	-41%	D	346.2	413.5	-16%	N
5	DELHI (UT)	36.0	42.3	-15%	N	171.7	257.6	-33%	D
6	PUNJAB	38.1	41.9	-9%	N	220.4	226.6	-3%	N
7	HIMACHAL PRADESH	94.0	68.7	37%	E	267.9	373.5	-28%	D
8	JAMMU & KASHMIR	109.0	61.3	78%	LE	275.0	278.8	-1%	N
9	RAJASTHAN	90.8	36.1	152%	LE	219.1	203.8	8%	N
REGION : CENTRAL INDIA									
1	ODISHA	124.4	86.5	44%	E	446.8	562.3	-21%	D
2	MADHYA PRADESH	136.6	77.2	77%	LE	430.4	432.1	0%	N
3	GUJARAT	96.3	62.9	53%	E	272.9	373.4	-27%	D
4	DADAR & NAGAR HAVELI (UT)	509.1	203.4	150%	LE	1877.9	1182.0	59%	E
5	DAMAN & DIU (UT)	178.4	149.1	20%	E	938.5	911.7	3%	N
6	GOA	229.2	244.7	-6%	N	2084.4	1966.8	6%	N
7	MAHARASHTRA	191.3	80.0	139%	LE	602.5	538.5	12%	N
8	CHHATTISGARH	151.4	86.0	76%	LE	498.5	569.0	-12%	N
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	64.6	93.6	-31%	D	874.2	815.7	7%	N
2	ANDHRA PRADESH	36.8	30.8	20%	E	186.4	222.0	-16%	N
3	TELANGANA	105.1	59.0	78%	LE	303.8	368.2	-17%	N
4	TAMIL NADU	14.8	18.5	-20%	D	92.3	130.2	-29%	D
5	PONDICHERRY (UT)	19.7	25.3	-22%	D	156.2	165.8	-6%	N
6	KARNATAKA	53.2	59.7	-11%	N	404.9	463.5	-13%	N
7	KERALA	43.5	156.7	-72%	LD	932.9	1363.0	-32%	D
8	LAKSHADWEEP (UT)	80.4	50.3	60%	LE	732.8	624.3	17%	N
COUNTRY :		96.0	67.5	42%		410.5	452.2	-9%	

### CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Week:25-07-2019 To 31-07-2019	Period:01-06-2019 To 31-07-2019
	NO.OF STATES	NO.OF STATES
Large Excess	8	0
Excess	5	2
Normal	12	22
Deficient	10	12
Large Deficient	1	0
NoRain	0	0
NoData	0	0