



Voluntary Report – Voluntary - Public Distribution Date: October 20,2019

Report Number: IN2019-0093

Report Name: Monsoon Update - October 2019

Country: India

Post: Mumbai

Report Category: Agriculture in the Economy, National Plan, Policy and Program Announcements, Agriculture in the News, Climate Change/Global Warming/Food Security, Cotton and Products, Grain

and Feed, Oilseeds and Products

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Report Highlights:

The southwest monsoon completely withdrew from the country by mid-October, ending a season where cumulative rainfall was ten percent higher than the normal fifty-year average. Kharif 2019 season planting area was marginally lower than last year with major increases in cotton area offset by reduced area in rice and pulses.



General Overview

According to the Indian Meteorological Department (IMD), overall 2019 southwest monsoon rains in India were ten percent higher than the long period average (LPA). The monsoon rains had intensified in August with rainfall 16 percent above average for the month, followed by heavy rains across Central and Southern India raising September monthly rainfall 52 percent above average. Of the total 678 districts across India. 77 percent reported normal to excess rains, with 23 percent reporting deficit rains. The states of Gujarat (Saurashtra), Rajasthan (East Rajasthan) and Madhya Pradesh (West Madhya Pradesh) reported the highest number of districts with excess rains.

Weather Outlook for the Next Two Weeks

IMD forecasts light/moderate, scattered to widespread rainfall very likely to occur over Konkan, Goa, Madhya Maharashtra, Karnataka, Coastal Andhra Pradesh and Kerala. Meanwhile, Tamil Nadu, Telangana and Rayalaseema are likely to experience light/moderate isolated to scattered rainfall. Cumulatively, above normal rainfall is very likely over Maharashtra, Karnataka, Telangana, Andhra Pradesh, south Odisha, south Chhattisgarh, Tamil Nadu, Kerala and Tripura. During week two (Oct 17-23), rainfall activity is likely to increase further with above normal rainfall very likely over Maharashtra, Karnataka, Telangana, Andhra Pradesh, East Madhya Pradesh, Odisha, Chhattisgarh, Jharkhand, Gangetic West Bengal Tamil Nadu, Kerala, Tripura and Manipur. It is likely to rain below normal over remaining parts of the country. For more details refer IMD Press release.

Southwest Monsoon Withdraws as Northeast Monsoon Commences

On October 16, 2019, IMD issued a press release stating that the southwest monsoon has withdrawn from the entire country while the northeast monsoon rains have commenced over Tamil Nadu and adjoining areas of Andhra Pradesh, Karnataka and Kerala. For more details refer IMD Press release.

Kharif 2019 Sowing Progress

According to the Ministry of Agriculture and Farmers Welfare's (MOAFW) September 27, 2019 report, the overall planting for *Kharif 2019* season is less than one percent lower than last year. The increase in area of cotton has been offset by the reduction in planted area for paddy and pulses. Cotton area increased by more than five percent from last year (0.66 million hectares), while the area for paddy and pulses reduced by one percent and two percent, respectively (combined area changes of 0.70 million hectares). Planted area for pulses saw significant increases in Rajasthan and Madhya Pradesh, and lower area in Maharashtra. Oilseeds area increased in Gujarat but mostly fell in Andhra Pradesh. Cotton area primarily increased in Maharashtra, Telangana and Rajasthan, with marginal area reduction reported in Gujarat.

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

Crop	Area Sown in 2019	Area Sown in 2018	Normal Area	Y-o-Y	Change from
1	on Sep 27, 2019	on Sep 27, 2018	on Sep 27**	Change	Normal
Rice	38.234	38.692	39.625	-1.18%	-3.51%
Pulses	13.402	13.640	11.989	-1.74%	11.79%
Coarse	17.992	17.688	18.839	1.72%	-4.50%
Cereals					
Oilseeds	17.948	17.928	18.196	0.11%	-1.36%
Sugarcane	5.245	5.551	4.832	-5.51%	8.55%
Jute and	0.684	0.720	0.787	-5.00%	-13.09%
Mesta					
Cotton	12.767	12.105	12.093	5.47%	5.57%
Total	106.272	106.324	106.361	-0.05%	-0.08%

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

Table 2. India: Southwest Monsoon Regional Rainfall Distribution
June 1-September 30, 2019

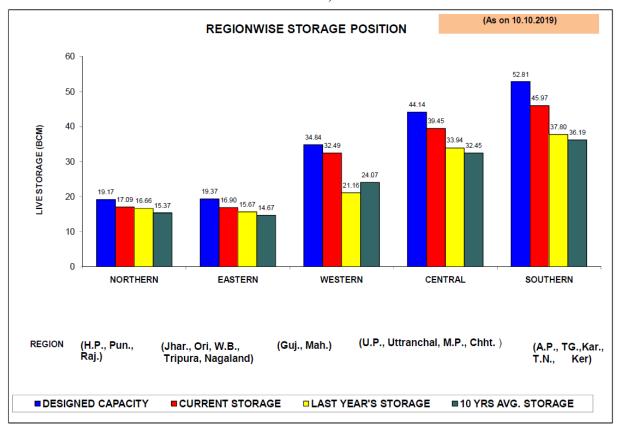
Regions	2019 Actual	Normal	2019 Percentage Departure from
	(mm)	(mm)	Normal
Northwest India	586.0	599.5	-2%
Central India	1,262.8	976.6	+29%
Southern Peninsula	840.9	726.2	+16%
East and Northeast	1,240.7	1,410.4	-12%
India			
All India	968.3	880.6	+10%

^{*} Normal rainfall is the fifty-year average of rainfall from 1951-2000

Source: Indian Meteorological Department

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

Image 1. India: Storage Status at 107 Major Reservoirs in Billion Cubic Meters (BCM) as on October 10, 2019



Source: Central Water Commission, Ministry of Jal Shakti

Image 2: India: Monthly Rainfall Statistics in mm (southwest monsoon 2019)

RAINFALL STATISTICS - MONSOON 2019

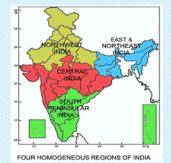
JUNE - 2019	1- Jun	1- Jun TO 30-Jun		
REGION	ACTUAL	NORMAL	% DEP	
COUNTRY AS A WHOLE	112.1	166.9	-32.8	
NORTHWEST INDIA	51.0	75.3	-32.2	
EAST & NORTHEAST INDIA	218.2	347.1	-37.1	
CENTRAL INDIA	117.3	169.2	-30.7	
SOUTH PENINSULA	112.8	160.2	-29.6	

JULY - 2019	1- Jul	ТО	31-Jul	
REGION	ACTUAL	NORMAL	% DEP	
COUNTRY AS A WHOLE	298.3	285.3	4.6	
NORTHWEST INDIA	214.7	212.2	1.2	
EAST & NORTHEAST INDIA	478.4	432.0	10.7	
CENTRAL INDIA	350.4	322.8	8.6	
SOUTH PENINSULA	193.9	216.7	-10.5	

AUGUST -2019	1- Aug TO 31-Au		
REGION	ACTUAL	NORMAL	% DEP
COUNTRY AS A WHOLE	297.8	258.2	15.4
NORTHWEST INDIA	200.1	202.7	-1.3
EAST & NORTHEAST INDIA	214.0	346.0	-38.1
CENTRAL INDIA	427.9	307.3	39.2
SOUTH PENINSULA	296.1	189.2	56.5

SEPTEMBER-2019	1- Sep	TO	30-Sep	
REGION	ACTUAL	NORMAL	% DEP	
COUNTRY AS A WHOLE	259.2	170.2	52.3	
NORTHWEST INDIA	120.9	109.4	10.5	
EAST & NORTHEAST INDIA	324.2	285.2	13.7	
CENTRAL INDIA	367.1	177.2	107.2	
SOUTH PENINSULA	238.2	160.1	48.8	

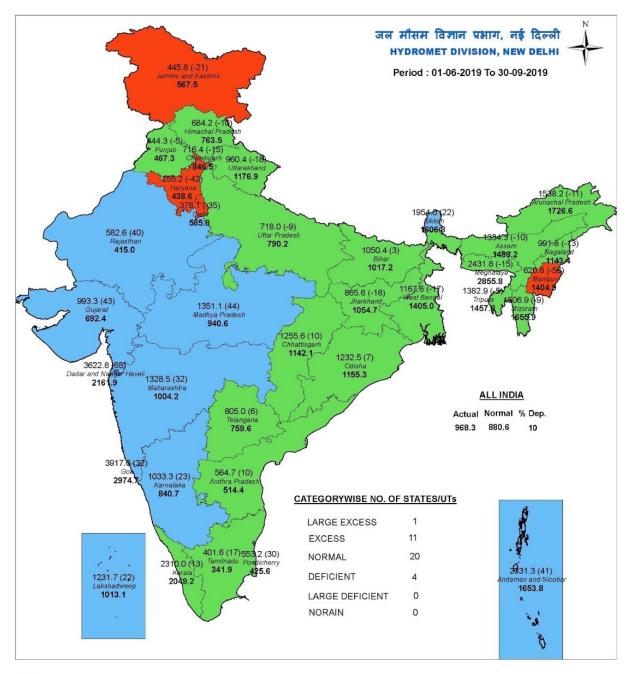
CUMULATIVE SEASONAL RAINFALL	1- Jun	TO	30-Sep	
REGION	ACTUAL	NORMAL	% DEP	
COUNTRY AS A WHOLE	968.3	880.6	10.0	
NORTHWEST INDIA	586.0	599.5	-2.2	
EAST & NORTHEAST INDIA	1240.7	1410.4	-12.0	
CENTRAL INDIA	1262.8	976.6	29.3	
SOUTH PENINSULA	840.9	726.2	15.8	



(Based on real time data)



STATE RAINFALL MAP

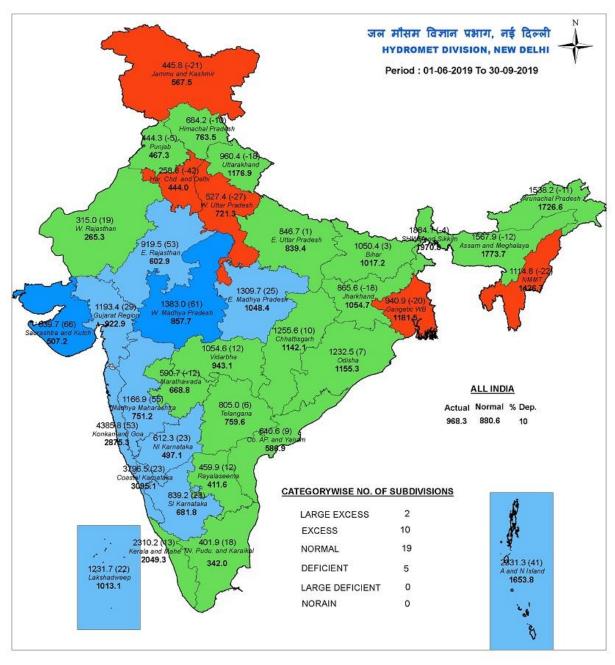


Large Excess [60% or more] 🚪 Excess [20% to 59%] 📱 Normal [-19% to 19%] 📳 Deficient [-59% to -20%] 📙 Large Deficient [-99% to -60%] 📗 No Data [-100%] 📗 No Rain

- 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.



SUBDIVISION RAINFALL MAP



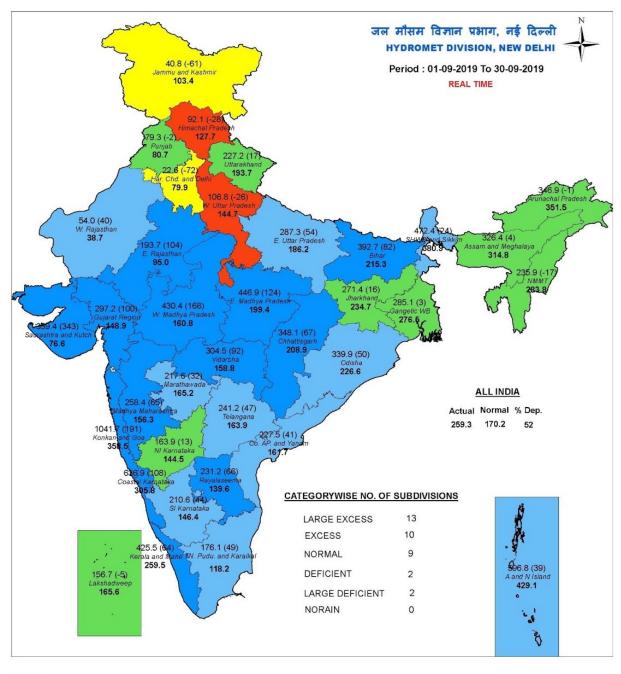
Large Excess [60% or more] Excess [20% to 59%] Normal [-19% to 19%] Deficient [-59% to -20%] Large Deficient [-98% to -60%] No Data [-100%]

NOTES:

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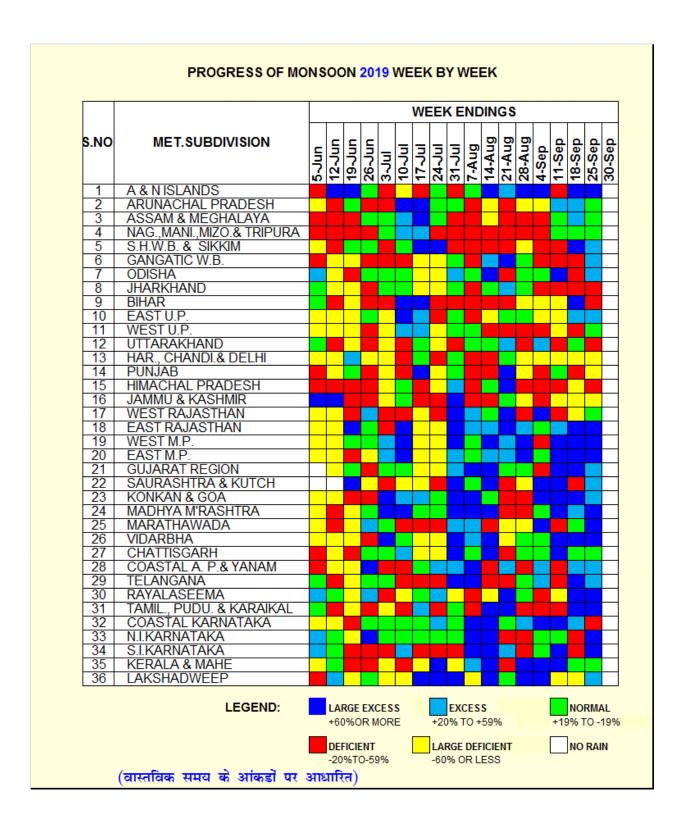
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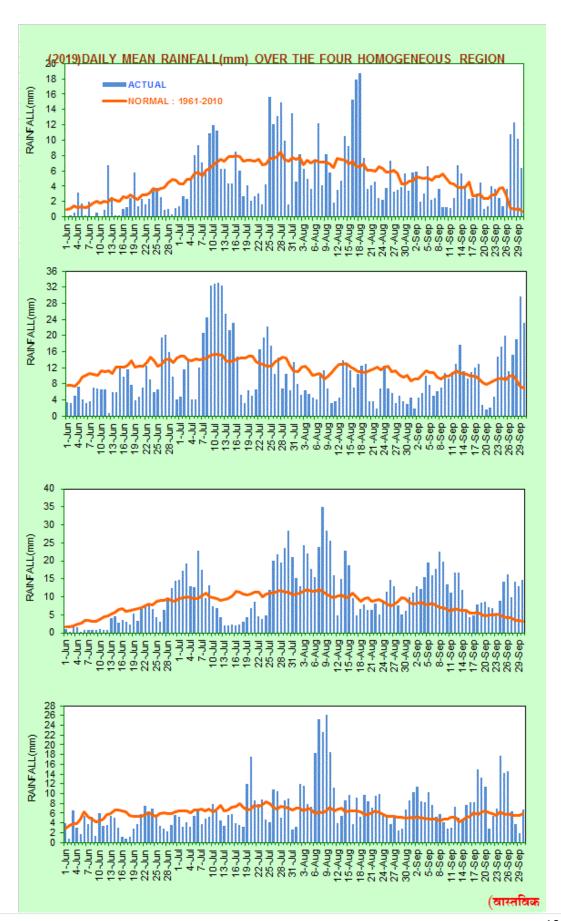


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- NOTES.

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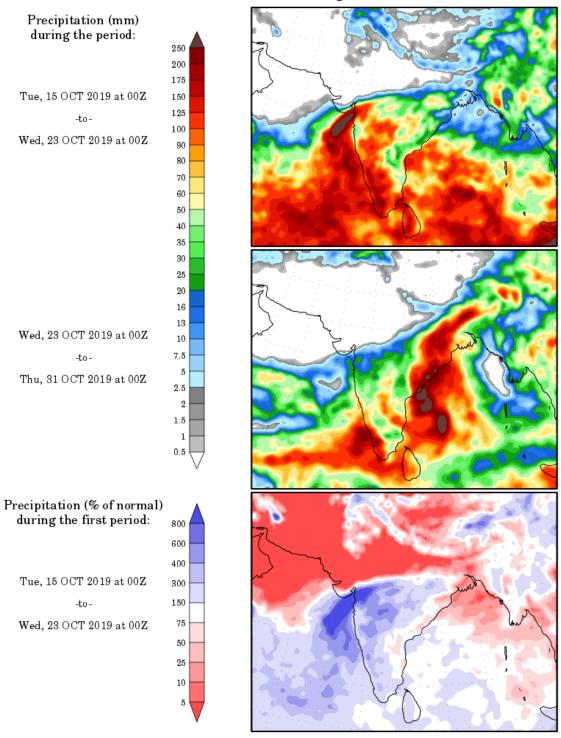
STATE-WISE RAINFALL (MM) DISTRIBUTION

			28.0		146%	968.3	880.6		10%
8	LAKSHADWEEP (UT)	48.7	37.1	31%	E	1231.7	1013.1	22%	E
7	KERALA	59.6	65.4	-9%	N	2310.0	2049.3	13%	N
5	KARNATAKA	44.2	45.1	-2%	N	1033.3	840.7	23%	E
	PUDUCHERRY (UT)	42.4	36.1	17%	N	553.2	425.6	30%	E
ŀ	TAMILNADU	34.8	33.0	6%	N	401.6	341.9	17%	N
	TELANGANA	47.7	32.3	48%	Е	805.0	759.6	6%	N
	ANDHRA PRADESH	36.8	40.2	-8%	N	564.7	514.4	10%	N
	A & N ISLAND (UT)	8.3	113.6	-93%	LD	2331.3	1653.8	41%	E
οl	JTH PENINSULA					,			
	CHHATISGARH	88.4	24.5	261%	LE	1255.6	1142.1	10%	N
	MAHARASHTRA	40.4	34.4	18%	N	1328.5	1004.2	32%	E
	GOA	26.5	66.6	-60%	LD	3917.6	2974.7	32%	E
	DAMAN & DIU (UT)	104.5	43.9	138%	LE	2161.6	1611.2	34%	E
	DADRA & NAGAR HAVELI (UT)	58.5	59,7	-2%	N	3622.8	2161.9	68%	LE
	GUJARAT	124.9	11.5	986%	LE	993.3	692.4	43%	E
	MADHYA PRADESH	93.9	15.3	514%	LE	1351.1	940.6	44%	E
	ODISHA	67.6	36.3	86%	LE	1232.5	1155.3	7%	N
EN	TRAL INDIA								
i	RAJASTHAN	34.7	4.1	746%	LE	582.6	415.0	40%	E
	JAMMU & KASHMIR	25. 9	9.8	164%	LE	445.8	567.5	-21%	D
	HIMACHAL PRADESH	61.4	9.1	575%	LE	684.2	763.5	-10%	N
	PUNJAB	34.8	7.3	377%	LE	444.3	467.3	-5%	N
	DELHI	1.9	9.4	-80%	LD	378.1	585.8	-35%	D
_000	CHANDIGARH (UT)	105.7	12.0	781%	LE	716.4	846.5	-15%	N
	HARYANA	8.0	4.0	99%	LE	255.2	438.6	-42%	D
	UTTARAKHAND	91.6	13.8	564%	LE	960.4	1176.9	-18%	N
	UTTAR PRADESH	101.1	13.5	649%	LE	718.0	790.2	-9%	N
OF	TH WEST INDIA	Marian Carlos Ca						, 1	
1	BIHAR	247.0	40.2	514%	LE	1050.4	1017.2	3%	N
0	JHARKHAND	158.3	41.2	284%	LE	865.6	1054.7	-18%	N
	WEST BENGAL	109.9	67.4	63%	LE	1167.6	1405.0	-17%	N
	SIKKIM	38.4	61.1	-37%	D	1954.0	1606.8	22%	E
	TRIPURA	56.9	56.6	1%	N	1382.9	1457.8	-5%	N
	MIZORAM	38.3	76.5	-50%	D	1506.9	1655.9	-9%	N
	MANIPUR	49.6	68.7	-28%	D	620.8	1404.9	-56%	Đ
}	NAGALAND	52.7	47.0	12%	N	991.8	1143.4	-13%	N
	MEGHALAYA	175.1	87.5	100%	LE	2431.8	2855.8	-15%	N
	ASSAM	47.5	51.2	-7%	N	1334.3	1486.2	-10%	N
-	ARUNACHAL PRADESH	20.9	69.9	-70%	LD	1538.2	1726.6	-11%	N
25	& NORTH EAST INDIA								
9.	STATES	ACTUAL	NORMAL	% DEP.	CAT.	ACTUAL	NORMAL	% DEP.	CAT.

CATEGORYWISE DISTRIBUTION OF NO. OF STATES

	WEEK:	26.09.2019	то	02.10.2019	PERIOD:	01.06.2019	то	30.09.2019
CATEGORY		NO. OF S	TATES	NO. OF STATES				
LARGE EXCESS		17				1		
EXCESS		2			11			
NORMAL		10			20			<u> </u>
DEFICIENT		3			4			
LARGE DEFICIENT		4		=== :		0		
NO RAIN		0			0			
NO DATA	Server et les sectorités et l'impropriés monson	0				0		

Precipitation Forecasts



Precipitation forecasts from the National Centers for Environmental Prediction.

Normal rainfall derived from Xie-Arkin (CMAP) Monthly Climatology for 1979-2003.

Forecast Initialization Time: 00Z15OCT2019

 $\operatorname{Gr}{AD}\operatorname{S/COLA}$

Attachments:

No Attachments.