

Voluntary Report – Voluntary - Public Distribution

Date: April 21, 2021

Report Number: IN2021-0058

Report Name: IMD Forecasts Normal 2021 Southwest Monsoon

Country: India

Post: Mumbai

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

Prepared By: Dhruv Sood

Approved By: Lazaro Sandoval

Report Highlights:

On April 16, the Indian Meteorological Department (IMD) forecasted a normal 2021 Southwest Monsoon, suggesting that June to September rainfall will likely be 98 percent of the Long Period Average (LPA) of 88 cm. Above normal high temperatures are forecast from April to June in north, northwest India and a few divisions of east central India.

General Information

On April 16, the Indian Meteorological Department (IMD) forecasted a normal Southwest Monsoon for 2021 suggesting that June to September rainfall will be 98 percent of the Long Period Average (LPA) with a model error of plus/minus 5 percent. Southwest monsoon seasonal (June to September) rainfall over the entire country is expected to be normal (96-104 percent). The LPA of the season's rainfall over the country as a whole for the period 1961-2010 is 88 cm. The forecast suggests a maximum probability (40 percent) for normal rainfall during the upcoming season that is expected to result in well-distributed rainfall across the country.

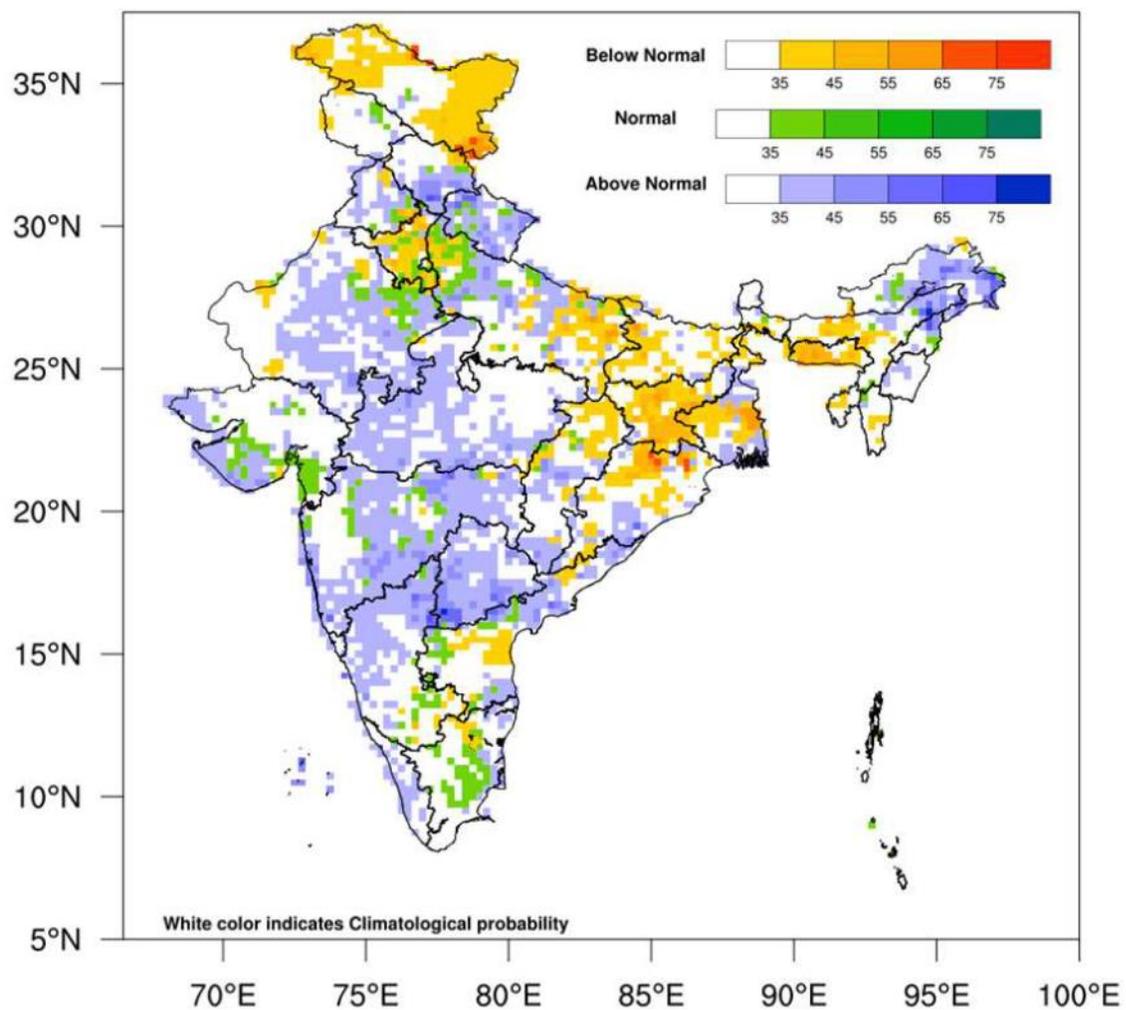
Monsoon Onset Date and Second Stage Forecast During the Last Week of May 2021

IMD will issue updated forecasts during the last week of May/first week of June as a part of the second stage forecast. In addition to an update for its April forecast, IMD will also issue separate forecasts for the month of June and seasonal (June-September) rainfall over the four broad geographical regions of India. For more details, please refer: [IMD first stage Southwest Monsoon forecast](#)

Seasonal Outlook for Temperatures during April – June 2021

On March 31, the IMD forecasted warmer seasonal average maximum temperatures over the meteorological subdivisions of north, northwest India and a few divisions of east central India (Jharkhand, Chhattisgarh and Odisha). Most of the subdivisions of South Peninsular India and a few subdivisions of east (Gangetic West Bengal), northeast (Sikkim and Sub Himalayan West Bengal, and Assam) and extreme north India (Jammu and Kashmir, and Ladakh) are likely to experience below normal maximum temperatures. For more details, please refer: [IMD Seasonal Outlook Temperature for April-June, 2021](#)

Tercile probability rainfall forecast for 2021 southwest monsoon season



Source: Indian Meteorological Department

Table 1. Probability Forecast for Southwest Monsoon 2021

Category	Rainfall Range (% of LPA)	Forecast Probability (%)
Deficient	Less than 90	14
Below Normal	Between 90-96	25
Normal	Between 96-104	40
Above Normal	Between 104-110	16
Excess	Greater than 110	5

Source: Indian Meteorological Department

Table 2. IMD Southwest Monsoon Onset Date (actual vs forecast)

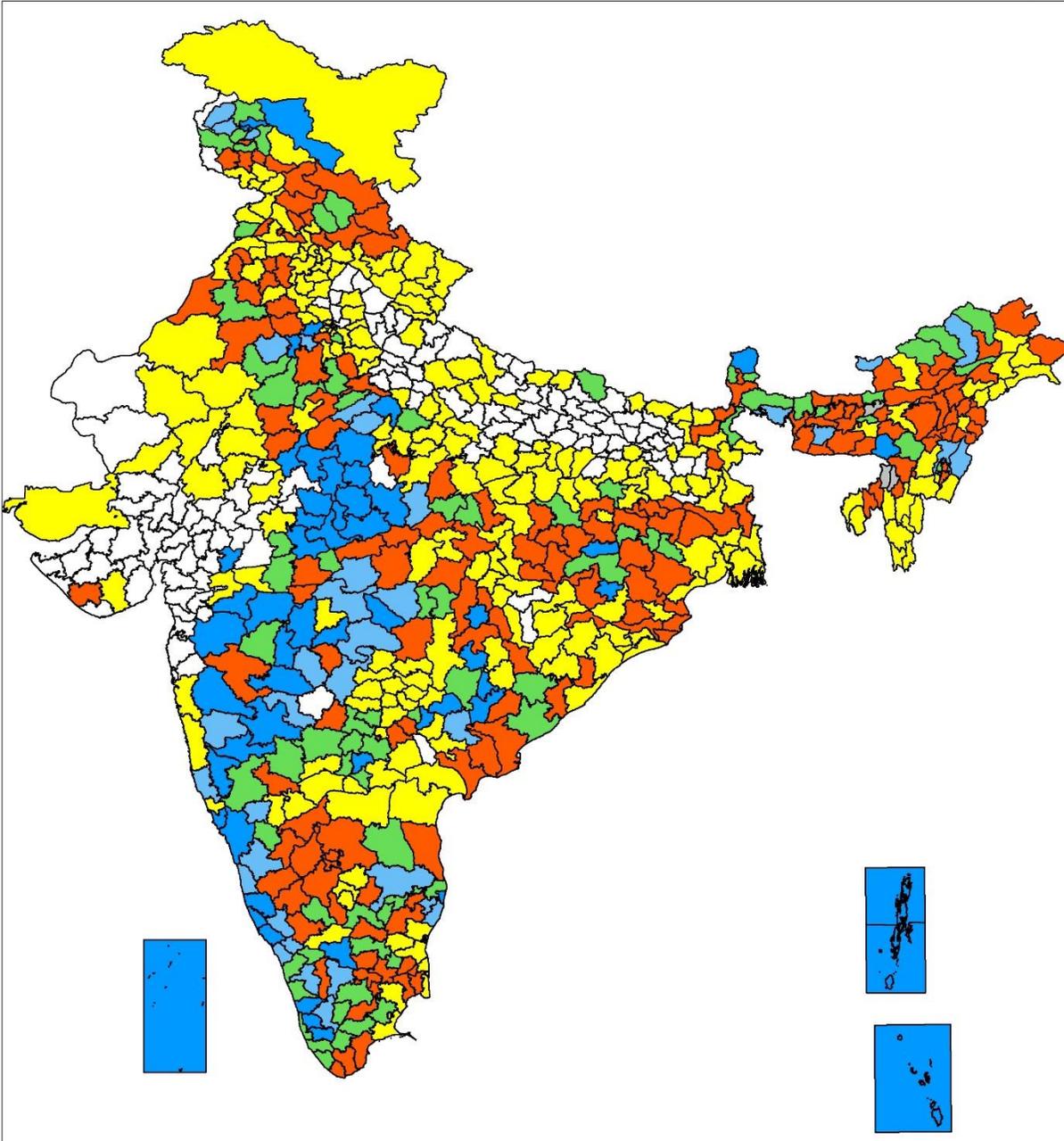
Year	Actual Onset Date	Forecast Onset Date	Actual Rainfall (% of LPA)
2014	6th June	5th June	88
2015	5th June	30th May	86
2016	8th June	7th June	97
2017	30th May	30th May	95
2018	29th May	29th May	91
2019	8th June	6th June	110
2020	1 st June	5 th June	109

Source: Indian Meteorological Department



DISTRICT RAINFALL MAP

Period : 01-03-2021 To 19-04-2021



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	Week:08-04-2021 To 14-04-2021				Period:01-03-2021 To 14-04-2021			
		ACTUAL (mm)	NORMAL (mm)	%DEP.	CAT.	ACTUAL (mm)	NORMAL (mm)	% DEP.	CAT.
REGION : EAST AND NORTH EAST INDIA									
1	ARUNACHAL PRADESH	61.7	62.6	-1%	N	207.8	317.9	-35%	D
2	ASSAM	16.1	35.5	-55%	D	79.4	143.4	-45%	D
3	MEGHALAYA	14.4	40.7	-65%	LD	148.1	165.5	-10%	N
4	NAGALAND	3.3	32.3	-90%	LD	58.5	109.6	-47%	D
5	MANIPUR	2.5	26.0	-90%	LD	70.8	111.1	-36%	D
6	MIZORAM	5.8	34.3	-83%	LD	36.5	140.3	-74%	LD
7	TRIPURA	6.6	40.4	-84%	LD	63.8	159.8	-60%	LD
8	SIKKIM	51.7	44.9	15%	N	323.8	217.0	49%	E
9	WEST BENGAL	5.5	10.7	-48%	D	18.4	50.4	-64%	LD
10	JHARKHAND	4.0	2.6	55%	E	13.4	20.9	-36%	D
11	BIHAR	0.4	1.6	-75%	LD	1.8	10.9	-83%	LD
REGION : NORTH WEST INDIA									
1	UTTAR PRADESH	0.1	0.5	-81%	LD	0.6	9.6	-93%	LD
2	UTTARAKHAND	1.0	7.5	-87%	LD	14.3	68.8	-79%	LD
3	HARYANA	0.0	1.6	-100%	NR	4.9	15.4	-68%	LD
4	CHANDIGARH (UT)	0.0	4.2	-100%	NR	8.3	40.3	-79%	LD
5	DELHI (UT)	0.0	1.2	-100%	NR	1.2	17.8	-93%	LD
6	PUNJAB	0.0	3.3	-99%	LD	9.9	30.2	-67%	LD
7	HIMACHAL PRADESH	1.0	15.1	-94%	LD	60.7	140.5	-57%	D
8	JAMMU & KASHMIR (UT)	4.0	25.0	-84%	LD	128.2	199.8	-36%	D
9	LADAKH (UT)	0.0	2.8	-100%	NR	9.5	16.4	-42%	D
10	RAJASTHAN	0.0	0.9	-100%	NR	2.0	6.1	-67%	LD
REGION : CENTRAL INDIA									
1	ODISHA	8.0	5.4	49%	E	15.2	36.6	-59%	D
2	MADHYA PRADESH	1.1	0.8	39%	E	8.8	8.7	1%	N
3	GUJARAT	0.0	0.1	-100%	NR	0.0	1.2	-100%	NR
4	DADAR & NAGAR HAVELI (UT)	0.0	0.0	-100%	NR	0.0	0.0	-100%	NR
5	DAMAN & DIU (UT)	0.0	0.0	-100%	NR	0.0	0.3	-100%	NR
6	GOA	6.2	1.0	525%	LE	7.5	5.4	38%	E
7	MAHARASHTRA	6.0	1.6	275%	LE	12.6	8.6	47%	E
8	CHHATTISGARH	4.6	2.0	129%	LE	8.9	15.3	-42%	D
REGION : SOUTH PENINSULA									
1	ANDAMAN & NICOBAR (UT)	4.0	10.0	-60%	LD	102.1	45.5	124%	LE
2	ANDHRA PRADESH	1.3	3.3	-59%	D	3.1	18.4	-83%	LD
3	TELANGANA	9.3	3.1	202%	LE	10.1	19.3	-48%	D
4	TAMIL NADU	7.7	8.1	-5%	N	16.7	37.8	-56%	D
5	PUDUCHERRY (UT)	1.0	6.7	-86%	LD	1.4	35.8	-96%	LD
6	KARNATAKA	8.0	6.9	16%	N	11.3	21.3	-47%	D
7	KERALA	39.9	24.7	62%	LE	103.9	78.3	33%	E
8	LAKSHADWEEP (UT)	15.3	14.1	9%	N	35.3	29.9	18%	N
COUNTRY :		5.7	8.0	-29%		27.8	46.4	-40%	

CATEGORYWISE DISTRIBUTION OF NO.OF STATES

CATEGORY	Week:08-04-2021 To 14-04-2021	Period:01-03-2021 To 14-04-2021
	NO.OF STATES	NO.OF STATES
Large Excess	5	1
Excess	3	4
Normal	5	3
Deficient	3	13
Large Deficient	13	13
NoRain	8	3
NoData	0	0

Attachments:

No Attachments.