



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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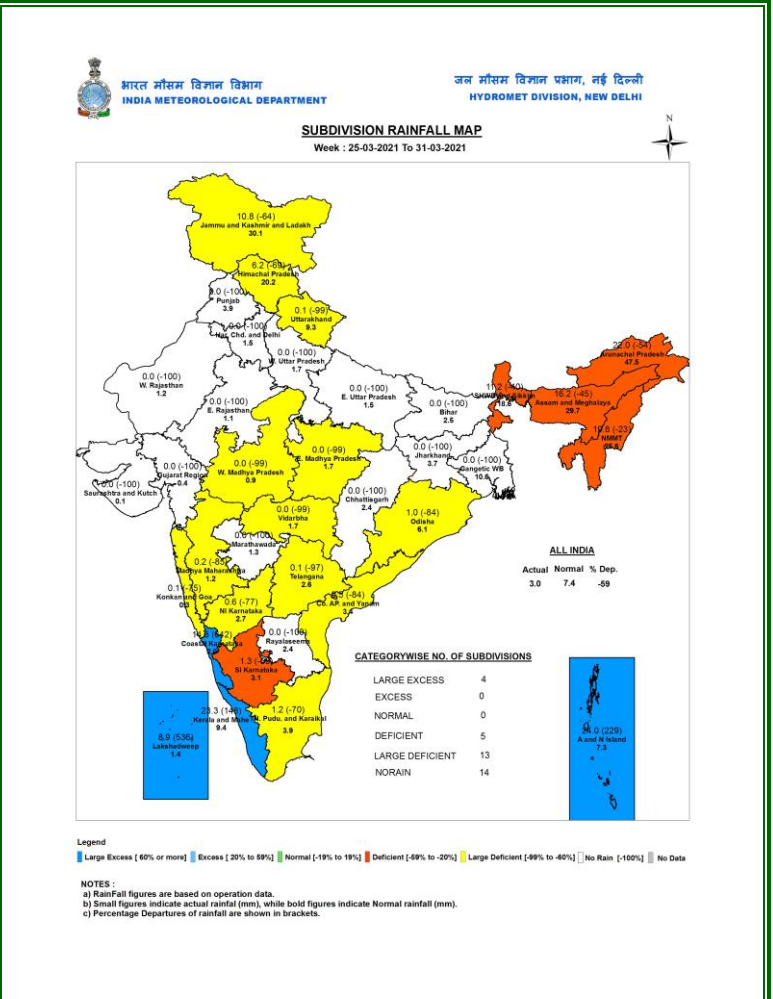
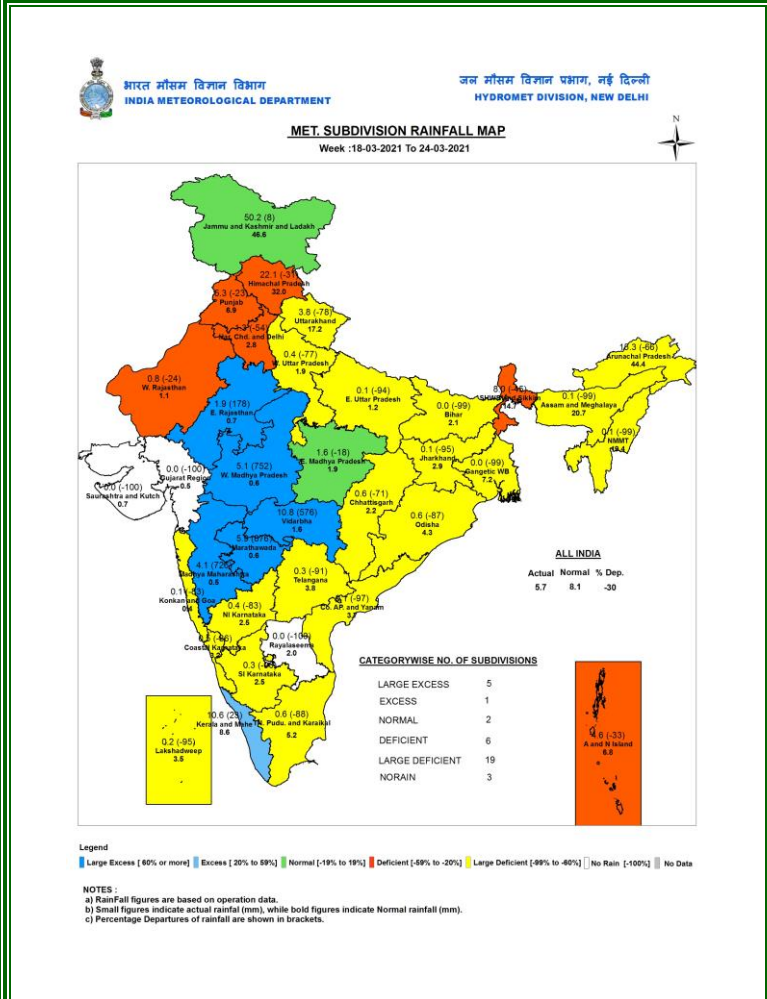
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

**India Meteorological Department (IMD),  
Earth System Science Organization**

# Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

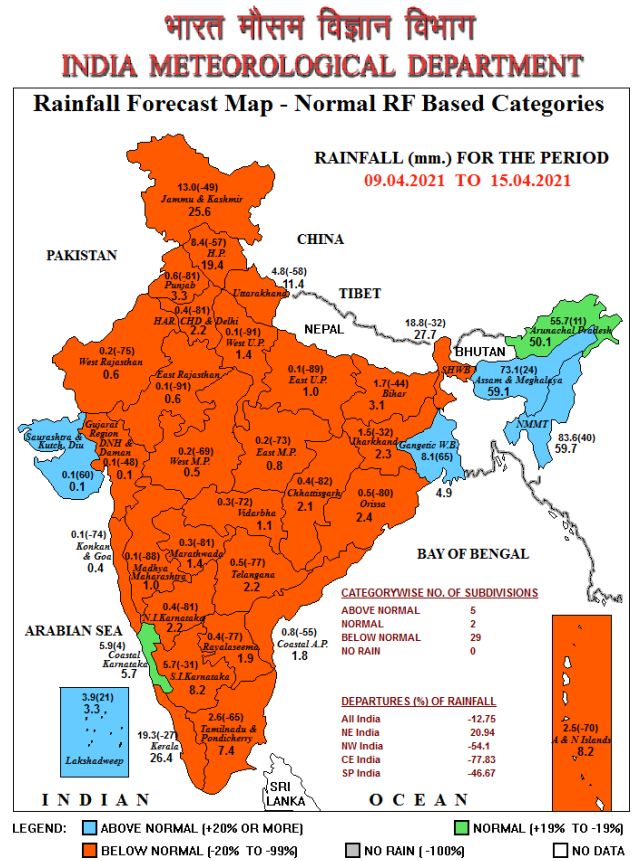
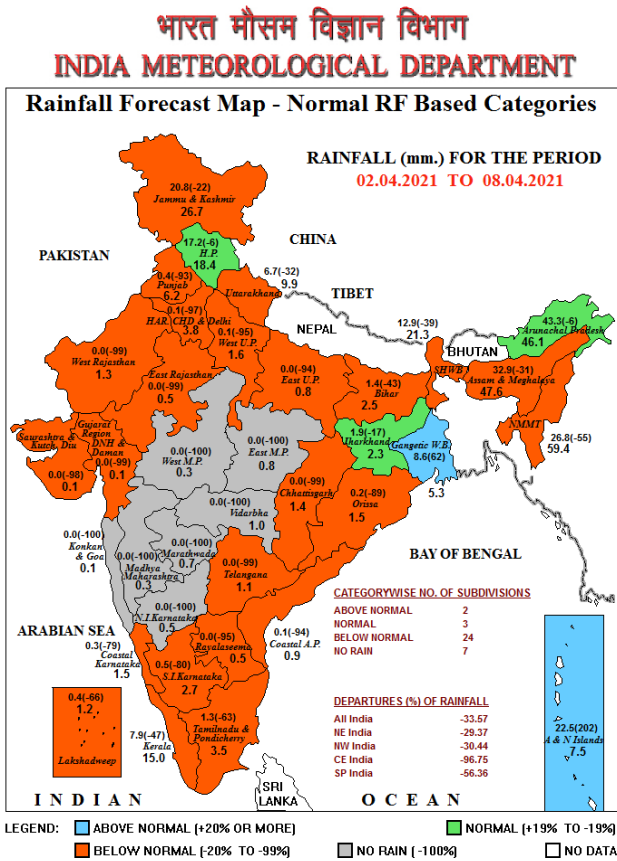
## Realized Rainfall (18<sup>th</sup> to 31<sup>st</sup> March, 2021)



- Normal or above normal rainfall occurred in both the weeks in Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), East Rajasthan, in Madhya Pradesh, Madhya Maharashtra, Marathwada, Vidarbha Coastal Karnataka, Lakshadweep and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 31 March) (2<sup>nd</sup> to 15<sup>th</sup> April, 2021)



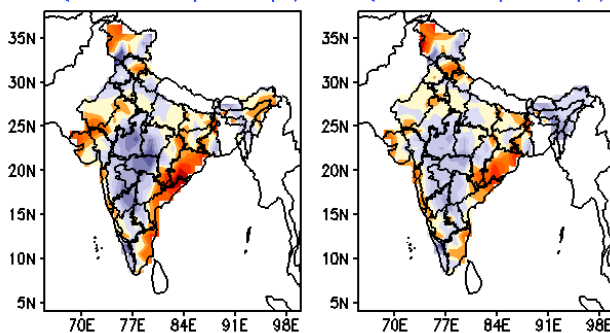
- Week 1 (02.04.2021 to 08.04.2021) and Week 2 (09.04.2021 to 15.04.2021):** Western Disturbance associated light to moderate rainfall likely over Jammu & Kashmir and adjoining regions and Northwest India mainly in week 1. Some parts of the south peninsula (Coastal Kerala) also likely to get light rainfall during the period (week 1). North-eastern parts of India will get rainfall associated with thunderstorm activity in week 1 and week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 31 March)  
(2<sup>nd</sup> to 15<sup>th</sup> April, 2021)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 02Apr–08Apr)

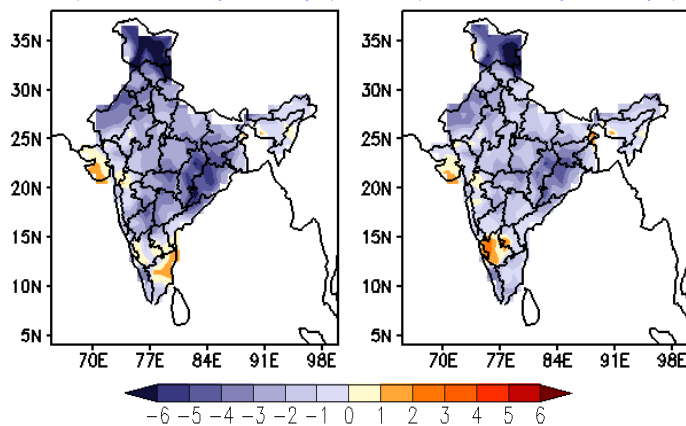
(Week2: 09Apr–15Apr)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 02Apr–08Apr)

(Week2: 09Apr–15Apr)



-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

**Maximum Temperature (Tmax)**

- **Week 1 (02.04.2021 to 08.04.2021) and Week 2 (09.04.2021 to 15.04.2021):** Extreme north India, eastern coastal region, Bihar, east Uttar Pradesh and north eastern states Tmax will be above normal, whereas over the remaining parts it will be normal to slightly below normal.

**Minimum Temperature (Tmin)**

- **Week 1 (02.04.2021 to 08.04.2021) and Week 2 (09.04.2021 to 15.04.2021):** Warm anomalies over isolated regions of Northwest India and parts of the south peninsula in week 1 and week 2. However, over most of India Tmin will be lower than normal during week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 15 April 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 63.2 mm (73% large excess) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) is below normal for week-1 and week-2.

- Due to increase in temperature, there is a chance of sucking pest incidence in vegetables. To control, it is advised to apply 2% Neem oil emulsion once in a week or spray *Lecanicillium lecanii* at 20 g per litre of water.
- It is advised to mulch the basins of pepper vines to conserve the soil moisture.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 7.8 mm (-66% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for thrip incidence in chilli. To control, it is advised to apply Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Prevailing weather is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 4.3 mm (35% excess), Marathwada is 6.1 mm (-3% deficit), Vidarbha is 11.7 mm (7% excess) and Konkan region 0.2 mm (-82% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) over Konkan, Madhya Maharashtra, Marathawada and Vidharbha is no rainfall for week-1 and below normal for week-2.

#### Marathwada

- Due to increase in temperature and soil moisture stress, there may be fruit drop in citrus orchards. To prevent the fruit drop, it is advised to spray Gibberellic Acid (GA) @ 1.5 g per 100 litres of water.
- To protect the animals from high temperature, it is advised to apply mulch and spray water on the roof of shade to reduce the temperature of shade.

#### Vidharbha

- Due to increase in temperature, it is advised to apply irrigation in groundnut, sunflower and sesame at an interval of 6 to 8 days in the early morning or evening hours.
- For the management of sap sucking pest in groundnut, it is advised to spray Imidacloprid 17.8%

EC @ 2.5 ml or Lambdacyhalothrin 5% @ 6 ml or Quinalphos 25% @ 14 ml per 10 litres of water.

#### *Madhya Maharashtra*

- To protect fruit crops from high temperature, it is advised to provide shades on fruit crops.
- Under prevailing high temperature, it is advised to provide irrigation in suru sugarcane at 8-10 days interval in summer.

#### *Konkan*

- Due to the chances of increase in temperature, it is advised to apply 150 to 200 litres of water to nut bearing trees and to newly planted cashewnut orchard @ 15 litres of water at 15 days intervals. It is also advised to use straw mulch.
- It is advised to protect the animals/poultry from heat by covering roof of the shed with insulating materials such as paddy straw, dry coconut leaves and sprinkle cold water on the roof of shed during afternoon time.

#### **Hisar**

Amount of rainfall received over Hisar is 4.3 mm (-65% large deficit) during 01 March 2021 - 02 April 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather, farmers are advised for sowing of green gram and black gram with certified seed during this month.
- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

#### **Karnataka**

Rainfall received during 01 March 2021 - 02 April 2021 over South Interior Karnataka is 2.0 mm (-85% large deficit) and North Interior Karnataka is 1.0 mm (-87% large deficit). The extended range weather forecast (rainfall) for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) over South Interior Karnataka is below normal and North Interior Karnataka is no rainfall for week-1 and below normal over South Interior Karnataka and North Interior Karnataka week-2.

#### *North Interior Karnataka*

- Under prevailing weather condition, harvesting of chickpea, sorghum, safflower and wheat is advised.

#### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 02 April 2021 over East Uttar Pradesh 0.4 mm (-94% large

deficit) and West Uttar Pradesh is 0.7 mm (-92% large deficit). The extended range weather forecast (rainfall) for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Under prevailing dry weather condition, farmers are advised to harvest mature barley and wheat crop.
- Farmers are advised to prepare their fields for the sowing of *zaid* urd, mung bean, maize and sunflower.

#### **Jammu**

Amount of rainfall received over Jammu is 103.9 mm (-34% deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to go for sowing of okra with recommended varieties viz., Jammu okra 05, Arka anamika.
- Due to increase in temperature, farmers are advised to irrigate the late sown wheat crop.

#### **West Bengal**

Amount of rainfall received over West Bengal is 5.9 mm (-82% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over West Bengal is above normal for week-1 and week-2.

- For the management of stem borer in rice crop, it is advised to spray Cartap Hydrochloride (50% SP) @ 1 g/litre of water.
- To control the fruit drop in mango, it is advised to spray Borax @ 2g per litre of water or Planofix @ 2ml per 5 litre of water.

#### **Odisha**

Amount of rainfall received over Odisha is 5.1 mm (-80% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of purple blotch and stemphylium blight disease in onion crop. To manage, it is advised to spray Mancozeb 75% WP @ 600 g/acre or Difenoconazole 25% EC @ 200ml/acre by mixing in 200 litres of water at 15 days interval.
- There are chances of infestation of sucking pest in chilli crop. It is advised to spray Neem-based pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre by mixing in 200 litres of water.

## **Assam**

Amount of rainfall received over Assam is 73.0 mm (-18% deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Assam is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers may continue nursery sowing of arhu rice seeds under assured irrigation facilities. Recommended semi-dwarf varieties are IR-36, Lachit, Chilarai, Dishang.
- Due to the chances of light to moderate rainfall, it is advised to stop the top dressing operations in boro paddy.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 41.7 mm (-63% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Himachal Pradesh is normal for week-1 and below normal for week-2.

- Maintain room temperature of 25-28 °C and relative humidity of 80-85 % for successful growing of mushrooms.
- For the management of downy mildew in garlic, it is advised to spray Diathane M 45 @ 2.5 g or Bavistine 1 g per litre.

## **Madhya Pradesh**

Amount of rainfall received over East Madhya Pradesh is 6.9 mm (-39% deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Madhya Pradesh is no rainfall for week-1 and below normal for week-2.

- Field preparation for sowing of *zaid* crops like summer soybean, mung, urd and vegetables is advised.

## **Gujarat**

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Gujarat is below normal for week-1 and week-2.

- For the management of sucking pests, it is advised to spray 3 ml Phosphamidon or 15 ml Dimethoate in 10 litres of water.
- To minimize population of whitefly in brinjal, it is advised to spray Neem oil @ 50 ml or



Difenthiuron 50 WP @ 16 g /10 litres water.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 9.3 mm (-43% deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Jharkhand is normal for week-1 and below normal for week-2.

- For the management of fruit rot and leaf spot disease in brinjal crop, it is advised to spray Kavach @ 2 ml per litre of water.

### **Punjab**

Amount of rainfall received over Punjab is 7.1 mm (-71% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Punjab is below normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to complete the sowing of sugarcane with recommended varieties CoPB-92, Co118, CoJ-85, CoJ-64 for early maturing and CoPB-94, CoPB-93, CoPB-91, Co-238, CoJ-88 for mid season and late maturing.
- For the management of citrus phylla and aphids in citrus orchard, it is advised to spray Confidor @ 200 ml or Actara @ 160 g per 500 litres of water per acre.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 10.9 mm (-81% large deficit) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of leaf curl disease in peach plants. To control, it is advised to apply sulphur or copper-based fungicides like Bordeaux mixture or lime sulphur.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 02 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (02 - 08 April 2021 and 09 - 15 April 2021) on rainfall over Andhra Pradesh is below normal for week-1 and week-2.

- Due to increase in temperature, there is a possibility of incidence of thrips in mango. To control, it is advised to spray Azadiractin (1500 ppm) @ 2 ml or Neem oil @ 10 ml/litres of water.
- The current weather condition is favourable for incidence of brown plant hopper (BPH) in rice

in Kadapa, Nellore, Prakasam, Chittoor, and Visakhapatnam districts. To manage, it is advised to spray Buprofezin @ 1.6 ml or Etofenprox @ 2.0 ml or Acephate @ 1.5 g/ litre of water.

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