



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity:** 23 April - 06 May 2021

**Date of issue:** 23 April 2021

Issued by

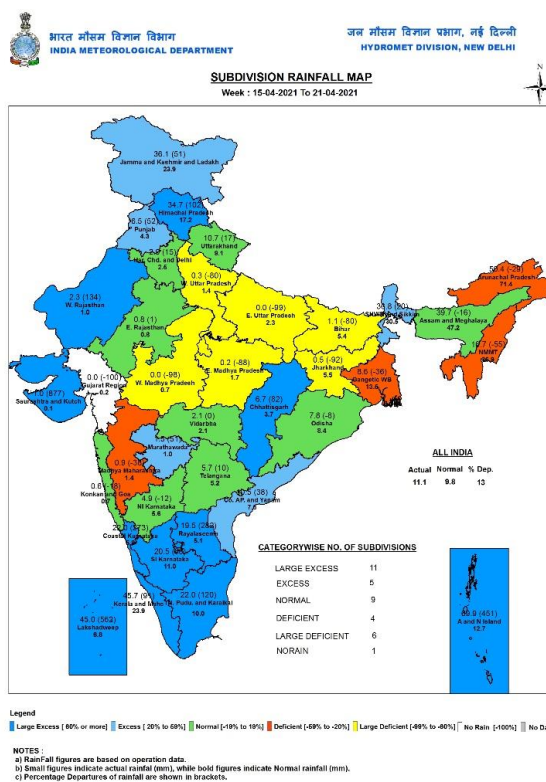
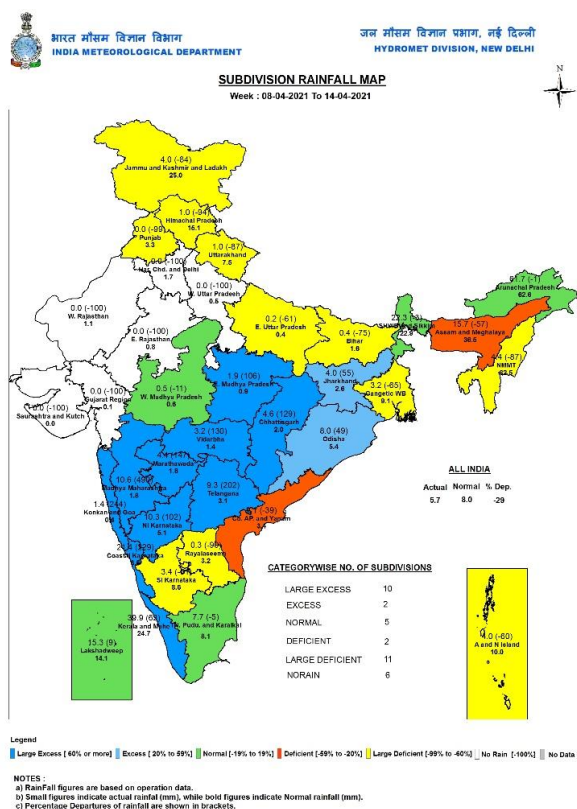
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

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

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

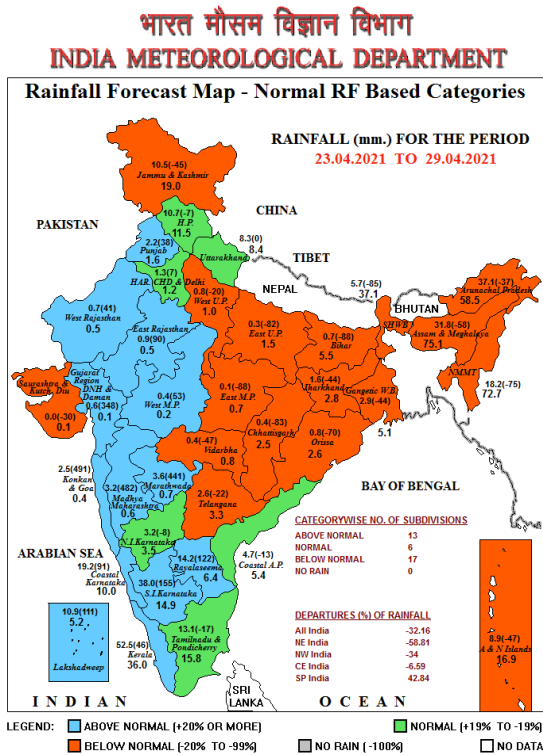
## Realized Rainfall (8<sup>th</sup> to 21<sup>st</sup> April, 2021)



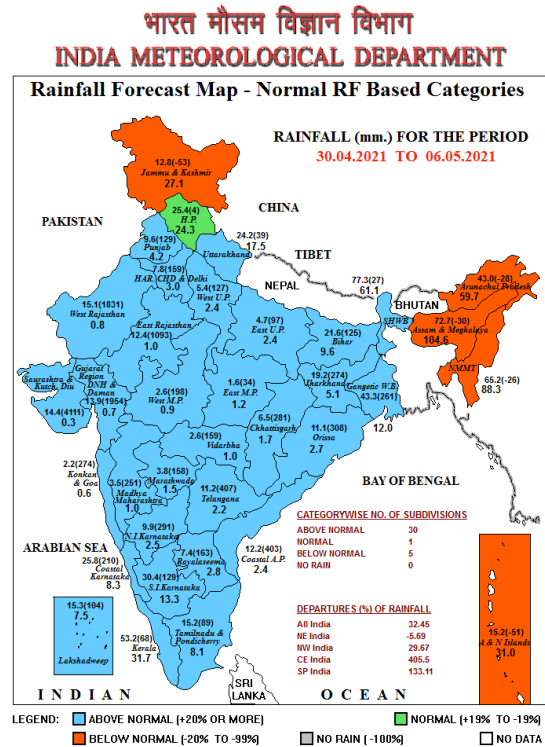
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim, Odisha, Chhattisgarh, Konkan & Goa, Marathwada, Vidarbha, North Interior Karnataka, Coastal Karnataka, Telangana, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh Delhi, Rajasthan, Saurashtra & Kutch, Arunachal Pradesh, Assam & Meghalaya, Madhya Pradesh, Jharkhand, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in either of the two weeks / both the weeks over rest of the country.

## Extended Range Forecast System

### Rainfall forecastmaps for the next 2 weeks (IC -21 April) (23<sup>rd</sup> April to 6<sup>th</sup> May, 2021)



NOTES:  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.



NOTES:  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

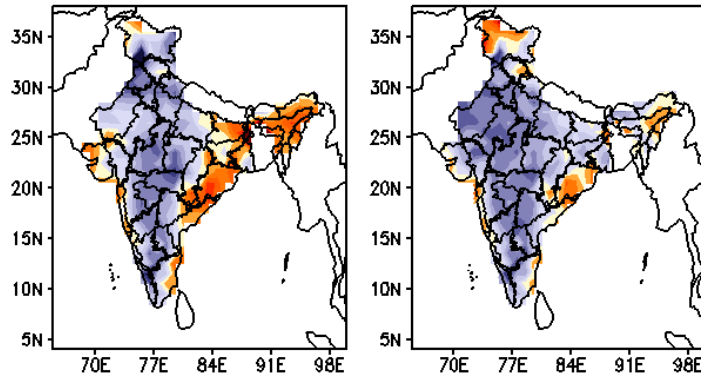
- Week1(23.04.2021 to 29.04.2021) and Week 2 (30.04.2021 to 06.05.2021):**Some parts of the south peninsula (Coastal Kerala and Tamil Nadu) will get rainfall during week 1 and week 2. Rainfall is likely to increase over many parts (Northwest, Northeast and South peninsula) of India during week 2. Northeast Indian regions likely to get rainfall during the period (week 1), although rainfall is likely to be subdued in week 1, the rainfall will increase in week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 21 April)  
(23<sup>rd</sup> April to 6<sup>th</sup> May, 2021)**

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

(Week1: 23Apr–29Apr)

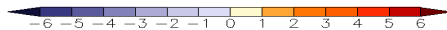
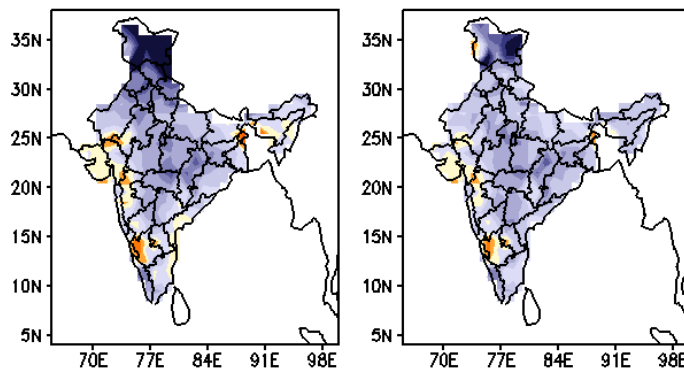
(Week2: 30Apr–06May)



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

(Week1: 23Apr–29Apr)

(Week2: 30Apr–06May)



**Maximum Temperature (Tmax)**

- **Week 1 (23.04.2021 to 29.04.2021) and Week 2 (30.04.2021 to 06.05.2021):** Tmax over extreme north India (Jammu & Kashmir and Ladakh (UTs)), eastern coastal region, Bihar, north eastern states and parts of western coastal region will be above normal in week 1, whereas, it will be below normal over the remaining parts during week 1. Tmax will be below normal over most parts of India in week 2, except some pockets over eastern coastal region including Odisha.

**Minimum Temperature (Tmin)**

- **Week 1 (23.04.2021 to 29.04.2021) and Week 2 (30.04.2021 to 06.05.2021):** Warm anomalies over isolated regions of western 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 to week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 06 May 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 154.3 mm (46% excess) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) is above normal for week-1 and week-2.

- Prevailing warm and humid weather condition is congenial for inflorescence die back and button shedding in arecanut. To manage, it is advised to spray Hexaconazole (Contaf) 1 ml per litre or Bordeaux mixture 1%.
- Under prevailing weather conditions, there is a chance of Rhizome weevil attack in banana. As a precaution, it is advised to apply Neem cake @ 1 kg/plant at the time of planting.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 38.8 mm (-22% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) is normal for week-1 and above normal for week-2.

- Prevailing weather condition is favourable mealy bug incidence in Guava and Mango. To control, it is advised to spray Triozophos 2 ml + Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/litre.
- 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 15.8 mm (105% large excess), Marathwada is 12.0 mm (16% excess), Vidarbha is 17.5 mm (11% excess) and Konkan region 2.1 mm (-14% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) over Konkan, Madhya Maharashtra, Marathawada is above normal and below normal over Vidharbha for week-1 and above normal over Konkan, Vidharbha, Madhya Maharashtra and Marathawada for week-2.

#### Marathwada

- To protect the newly planted and small plants of banana from high temperature, it is advised to provide shade and mulching around the stem of the banana plants.
- Due to increase in temperature, it is advised to spread the gunny bag on the roof of the poultry shed and use the sprinklers, ceiling fan, exhaust fan and foggers in poultry shed to reduce the effect of heat stress.

#### Vidharbha

- Under prevailing hot and dry weather condition, it is advised to apply irrigation in summer

crops at an interval of 6 to 7 days, in the early morning or evening hours.

- Under prevailing weather condition, farmers are advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.

#### *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 protect milch animals by keeping them under the shed and provide green fodder and sufficient clean drinking water.

#### *Konkan*

- Due to chances of increase in temperature, it is advised to provide irrigation to the vegetable crops at 4-5 days of interval.
- To reduce the heat stress in farm animals, it is advised to provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately.

#### **Hisar**

Amount of rainfall received over Hisar is 7.7 mm (-58% deficit) during 01 March 2021 - 22 April 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) over Hisar is normal for week-1 and above normal for week-2.

- Under prevailing dry weather condition, farmers are advised to harvest mature *rabi* viz., wheat and barley crops.
- 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 - 22 April 2021 over South Interior Karnataka is 31.5 mm (-19% deficit) and North Interior Karnataka is 15.7 mm (-31% deficit). The extended range weather forecast (rainfall) for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) over South Interior Karnataka is above normal and North Interior Karnataka is normal for week-1 and above normal over South Interior Karnataka and North Interior Karnataka for week-2.

#### *South Interior Karnataka*

- For the management of leaf hopper incidence in mango orchard, it is advised to spray Carbaryl, 50WP @ 4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water.
- Under prevailing weather condition, it is advised to provide proper ventilation for free circulation of air in the animal sheds. Also arrange to provide clean drinking water for the

animals.

### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 22 April 2021 over East Uttar Pradesh 3.6 mm (-66% large deficit) and West Uttar Pradesh is 2.1 mm (-84% large deficit). The extended range weather forecast (rainfall) for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Due to the chances of hot and dry weather condition, farmers are advised for harvesting and threshing of all pulse, wheat and barley crop.
- Under prevailing hot and dry weather, it is advised to supply plentiful clean and safe water to dairy milch animals at least 3-4 times daily.

### **Jammu**

Amount of rainfall received over Jammu is 169.1 mm (-25% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to chances of rainfall, it is advised to postpone the harvesting of wheat crop.
- Under prevailing weather condition, sowing of summer vegetables and transplanting of tomato, brinjal and chillies from nursery to field is advised.

### **West Bengal**

Amount of rainfall received over West Bengal is 28.9 mm (-54% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over West Bengal is below normal for week-1 and above normal for week-2.

- For the management of sheath blight, it is advised to apply Propiconazole 1ml/litre or Validamycin 2g/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 28.8 mm (-37% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Odisha is below normal for week-1 and above normal for week-2.



- Prevailing high temperature and intermittent thunder shower is congenial for Brown Plant Hopper and White Backed Plant Hopper infestation in paddy. To manage, it is advised to avoid excess use of nitrogenous fertilizer and spray Neem Based Pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre at the base of the plant.
- For the management of sucking pest in chilli crop, it is advised to spray Neem-based pesticide (Azadirachtin) 1500ppm @ 600-ml/acre by mixing in 200 litres of water.

### **Assam**

Amount of rainfall received over Assam is 135.4 mm (-33% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Because of increase in temperature and chances of light rainfall, there may be the incidence of blight observed in the green gram and black gram crops. To control, it is advised to apply Carbendazim 0.05% @ 300-500 g in 600-700 litres of water at an interval of 12-15 days.
- Under assured irrigation facilities, farmers may continue nursery sowing of ahu rice seeds with recommended semi-dwarf varieties viz., IR-36, Lachit, Chilarai, Dishang etc.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 109.2 mm (-31% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Himachal Pradesh is normal for week-1 and week-2.

- Under the prevailing weather condition, there is a chance of thrips attack in onion. To control, spraying of Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) under clear sky conditions is advised.
- Maintain room temperature of 25-28°C and relative humidity of 80-85 % for successful growing of mushrooms.

### **Gujarat**

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- For the management of sucking pest in summer mungbean, it is advised to spray Imidacloprid 17.8 SL @ 3 ml or Thiamethoxam 25 WG @ 3 g or Acephate 75 SC @ 15 g in 10 litres of water.
- To control white fly in groundnut, it is advised to spray Neem seed extract 5% and Difenthiuron 15 g or Profenofos 20 ml or Lambda-cyhalothrin 14 ml in 10 litres water.



## **Punjab**

Amount of rainfall received over Punjab is 16.8 mm (-51% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Punjab is above normal for week-1 and week-2.

- For the management of early shoot borer in sugarcane, it is advised to use Tricho-cards having 20,000 eggs of *Corcyra cephalonica* parasitized (seven days old) by *Trichogramma chilonis* per acre at 10 days interval.
- Under prevailing weather condition, there is a chance of fruit borer attack in tomato crop. To control it is advised to spray 30 ml of Fame 480 SL or 600 ml of Carina 50 EC or Coragen 18.5 SC @ 60 ml per acre or 100 ml of Sumicidin 20 EC in 100 litres of water per acre.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 41.2 mm (-47% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Uttarakhand is normal for week-1 and above normal for week-2.

- It is advised to provide mechanical support to the fruit bearing trees and vegetable creepers to prevent from strong winds.

## **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 22.1 mm (3% excess) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- Present weather condition is favourable for sucking pests incidence in papaya grown in Srikakulam, Vizianagaram, and West Godavari districts. To control, spraying of Imidachloprid @ 0.3g/litre of water is advised.
- Under prevailing weather condition, farmers are advised to harvest groundnut and tie the harvested plants and dry them in the shade to ensure that the moisture content is 8-9 per cent.

## **Rajasthan**

Amount of rainfall received over East Rajasthan is 4.0 mm (-34% deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Rajasthan is above normal for week-1 and week-2.

- Under prevailing weather condition, after harvesting of *rabi* crops, deep ploughing of fields is

advised so that eggs and pupating stages of insects and weed seeds are destroyed.

- Due to increase in temperature, farmers are advised to irrigate standing vegetables crops.

### **Bihar**

Amount of rainfall received over Bihar is 5.5 mm (-67% large deficit) during 01 March 2021 - 22 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 April 2021 and 30 April - 06 May 2021) on rainfall over Bihar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, sowing of elephant foot yam is advised. Gajendra variety is recommended for sowing in North Bihar.
- Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables. To control, dusting of Chlorpyrifos 2% dust @ 20 kg/ha near root of the plant is advised.

### ***Disclaimer:***

*The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information presented in this bulletin.*