



## National Agromet Advisory Service Bulletin

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 01 April - 14 April 2022**

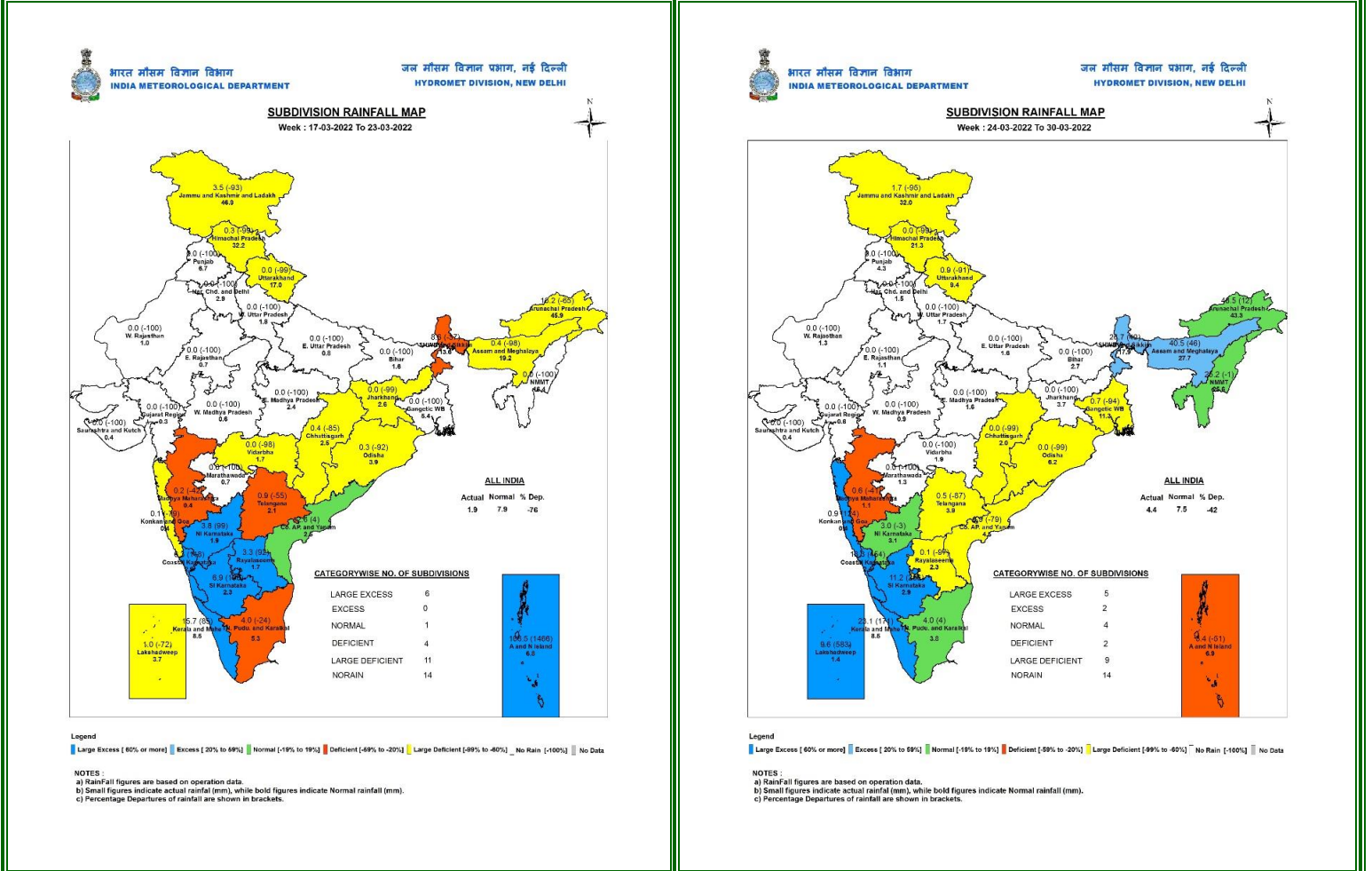
**Date of issue: 01 April 2022**

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 Temperature)

## Realized Rainfall (17<sup>th</sup> to 30<sup>th</sup> March, 2022)



- Normal or above normal rainfall occurred in both the weeks in Karnataka and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Sub-Himalayan West Bengal & Sikkim, Konkan & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Below normal rainfall/no rain occurred in both the weeks over the rest of the States & UTs.

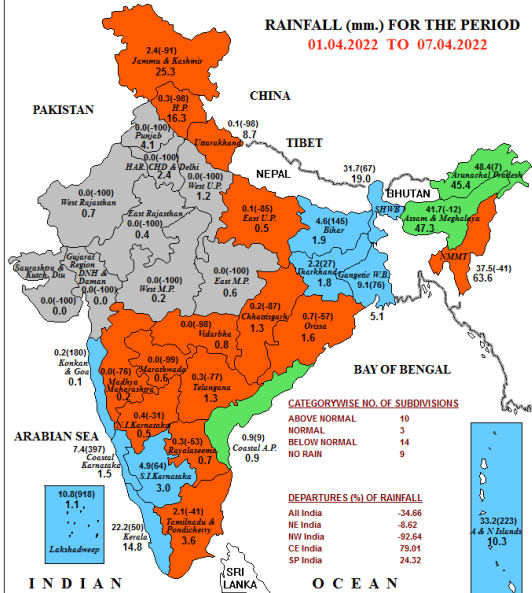
# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 30 March)

(1<sup>st</sup> to 14<sup>th</sup> April, 2022)

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

#### Rainfall Forecast Map - Normal RF Based Categories



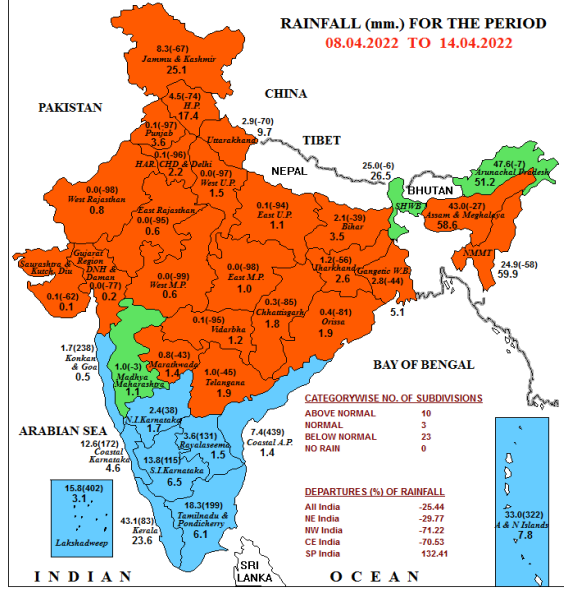
LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN [-100%] ■ NO DATA

**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.

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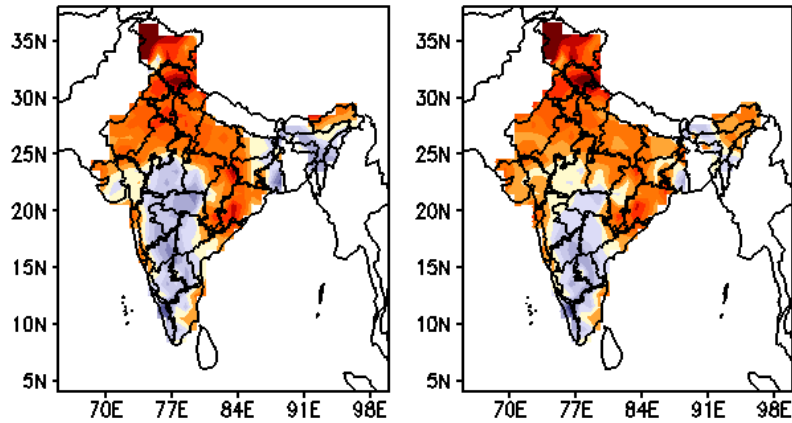
- [a] Rainfall figures are based on MME Forecast data.
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Percentage Departures of Rainfall are shown in Brackets.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC – 30 March)  
(1<sup>st</sup> to 14<sup>th</sup> April, 2022)**

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

(Week1: 01Apr-07Apr)

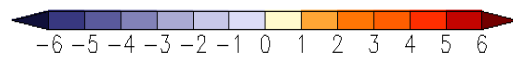
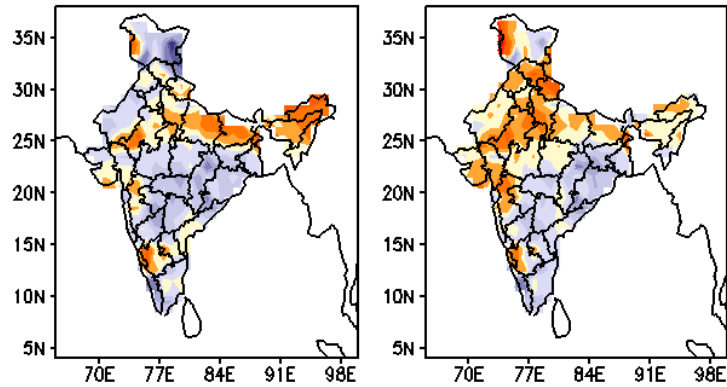
(Week2: 08Apr-14Apr)



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

(Week1: 01Apr-07Apr)

(Week2: 08Apr-14Apr)



## **Strategic Agricultural Planning based on rainfall during the next two weeks till 14 April 2022**

### **Agro-met Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 46 mm (45% excess) during 01 - 31 March 2022. The extended range weather forecast (rainfall) for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) is above normal for week-1 and week-2.

- As the hot weather conditions may increase the infestation of thrips, aphids, and whiteflies on the crops. To manage, it is advised to spray 2% neem oil garlic emulsion at the top and bottom of the leaves in every two weeks.
- An increase in temperature results in the dropping of flowers in tomatoes. To reduce flower drop, mulching and watering of the tomato crop are advised.

#### **Tamil Nadu**

The amount of rainfall received over Tamil Nadu is 12 mm (-43% deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) is below normal for week-1 and above normal for week-2.

- Prevailing weather conditions are congenial for infestation of sucking insects viz., thrips, aphids and hoppers incidence in chilli. To control, it is advised for basal application of FYM @ 25 t/ha with 250 kg/ha of neem cake.
- Under prevailing weather conditions, it is advised to provide adequate clean water and light to the fowls to avoid heatstroke.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 3 mm (-4% deficit); Marathwada is 1 mm (-84% large deficit); Konkan region is 1 mm (26% excess) and no rainfall over Vidarbha was observed during 01 - 31 March 2022. The extended range weather forecast (rainfall) for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Konkan is above normal and Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; over Konkan is above normal, Madhya Maharashtra is normal, Vidarbha and Marathwada is below normal rainfall for week-2.

#### *Vidarbha*

- Under prevailing dry/hot weather conditions, need-based irrigation is advised in summer crops during early morning or evening hours.
- Due to hot/dry weather conditions, spraying of antitranspirant (Kaolin 5%) is advised to minimize water loss in orchards and reduce the leaf temperature.

#### *Madhya Maharashtra*

- For control of powdery mildew in cucurbits, spraying of Dinocap 0.5 ml per litre of water is recommended.

- For the management of leaf curl in chilli, spraying of Dimethoate @15 to 20 ml per litre of water is advised.

#### *Konkan*

- Due to dry weather and increase in temperature, it is advised to provide irrigation in areca nut orchard at 3-4 days interval.
- Due to the forecast of a gradual rise in temperature, there is a possibility of an increase in body temperature of farm animals. To reduce the heat stress in farm animals, it is advised to provide clean, hygienic and plenty amount of drinking water and also provide roughages by mixing with a solution of 1% jaggery and 0.5% salt separately.

#### *Marathwada*

- Under prevailing weather conditions, harvesting and threshing of timely sown matured wheat and chickpea crop is advised.

#### **Hisar**

The amount of rainfall received over Hisar is 0.2 mm (-99% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) is no rainfall for week-1 and below normal for week-2.

- Under prevailing weather conditions, farmers are advised to harvest the matured mustard crop.
- Under prevailing weather conditions, farmers were advised for sowing of green gram and black gram with certified seed during this month.

#### **Uttar Pradesh**

No rainfall was received during 01 - 31 March 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over East Uttar Pradesh is no rainfall and below normal over West Uttar Pradesh for week-1 and below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Due to the dry weather condition, farmers are advised to maintain the soil moisture in late sown wheat crop.
- Under prevailing dry weather conditions, farmers are advised to harvest mature barley crop.

#### *Eastern Uttar Pradesh*

- To prevent premature mango fruit drop, it is advised to spray Naphthalene Acetic Acid @ 20g/litre of water.

## **Jammu**

The amount of rainfall received over Jammu is 18 mm (-88% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Jammu is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for the outbreak of aphids in the late sown mustard crop. To manage, it is advised to spray Imidacloprid @ 0.5ml/litre of water.
- Monitoring is advised for yellow rust and leaf spot attack in late/vary late sown wheat crop. If observed, apply 2-3 sprays of Propiconazole (Tilt) @ 0.1% at 15 days interval.

## **Assam**

The amount of rainfall received over Assam is 47 mm (-39% deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Assam is normal for week-1 and below normal for week-2.

- Prevailing weather condition is favorable for fruit rot or anthracnose disease in the chilli crop. To control, spraying of Glyodin pesticide is advised.
- Under assured irrigation facilities, farmers may continue nursery sowing of autumn rice (ahu rice) seeds. Recommended semi-dwarf varieties are *IR-36*, *Lachit*, *Chilarai*, *Dishang* etc. for obtaining higher yield.

## **Gujarat**

No rainfall was received over Gujarat during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the management of sucking pest in summer green gram and black gram, it is advised to spray Neem oil 50 ml/15 litres of water or use a yellow sticky trap.

## **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh is 20 mm (151% large excess) and over Rayalaseema 3 mm (-64% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Coastal Andhra Pradesh is normal and below normal over Rayalaseema for week-1 and; above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Present weather conditions are favourable for the incidence of fruit borer in brinjal grown in Vizianagaram, Visakhapatnam Nellore, Chittoor and Ananthapuramu districts. To control the fruit borer, spraying of Emamectin benzoate @ 0.4 g/litre of water is recommended.

- Present weather conditions are favorable for the incidence of hoppers in mango in Nellore, Guntur, Kurnool, Prakasam and Ananthapuramu districts. To control the hoppers incidence, spraying of Dimethoate @ 2 ml or Chlorpyrifos @ 2.5 ml/litre of water is recommended.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh is 0.9 mm (-92% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Chhattisgarh is below normal for week-1 and week-2.

- For the management of stem borer attack in summer paddy, farmers are advised to spray Rynaxypyr @ 150 g/ha or Fipronil 5 SC @ 1 litre.
- Due to increased temperature, farmers are advised to provide irrigation in sugarcane crop as per need.

### **Odisha**

The amount of rainfall received over Odisha is 0.9 mm (-96% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Odisha is below normal for week-1 and week-2.

- Due to the rise in temperature there is a chance of an increase in stem borer infestation in the summer paddy crop. To manage, it is advised to spray Fipronil 5%SC @ 400ml/acre or Flubendiamide 20% WG @ 50g/acre.

### **Punjab**

The amount of rainfall received over Punjab is 0.4 mm (-98% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Punjab is no rainfall for week-1 and below normal for week-2.

- To reduce the harmful effects of prevailing high temperatures, farmers are advised to apply light irrigation to the wheat crop or spray salicylic acid by dissolving 15 g salicylic acid in 450 ml of ethyl alcohol using 200 litres of water per acre.
- Under prevailing weather conditions, sowing of cucurbits like muskmelon, cucumber, bottle gourd, pumpkin, sponge gourd, squashes etc. to the main field is advised.

### **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh is 5 mm (-95% large deficit) during 01 - 31 March 2022. The extended range weather forecast (rainfall) provided for the next two weeks (01 - 07 April 2022 and 08 - 14 April 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised for picking tea at 8-10 days interval to maintain quality and productivity.



- Farmers are advised to prepare the nursery for summer vegetables like tomato (varieties like *Anshul*, *Abhimanyu*, *US-920*, *Palam Tomato Hybrid-1*), Brinjal, Capsicum (*Paladin*) and early crop of cucumber (Cucumber varieties like *6125*, *Log Green*).

***Disclaimer:***

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