



## **National Agromet Advisory Service Bulletin**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 15 April - 28 April 2022**

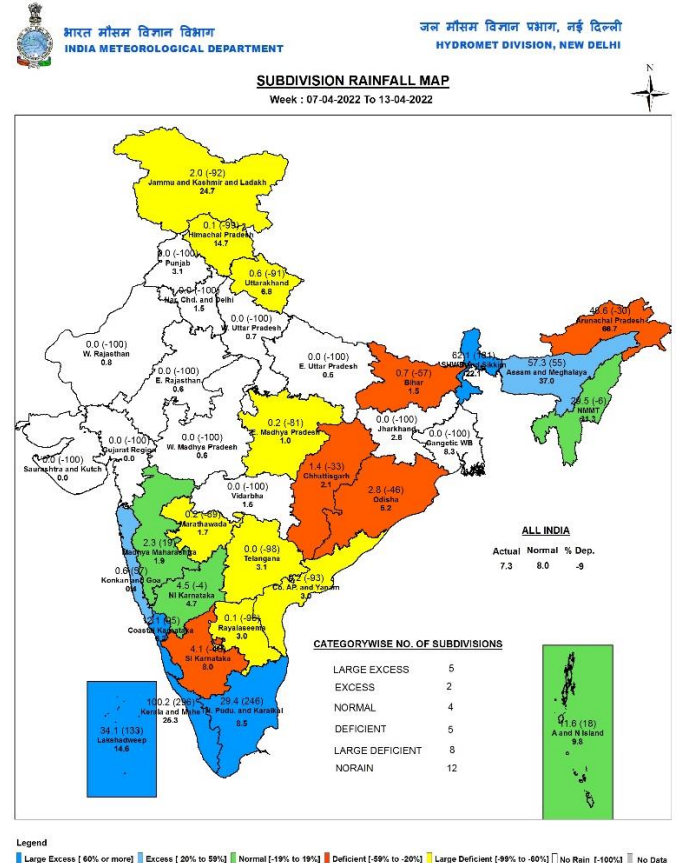
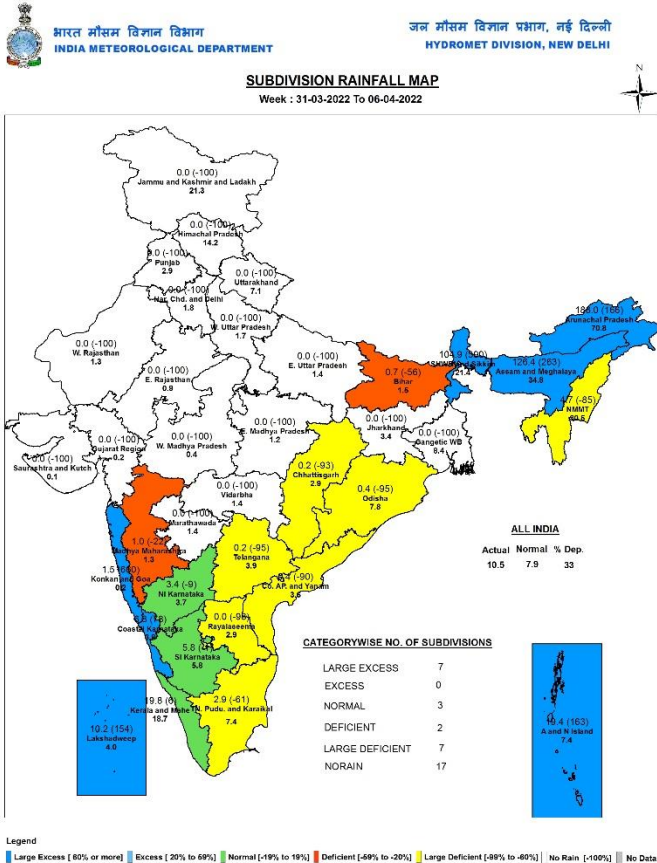
**Date of issue: 16 April 2022**

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)

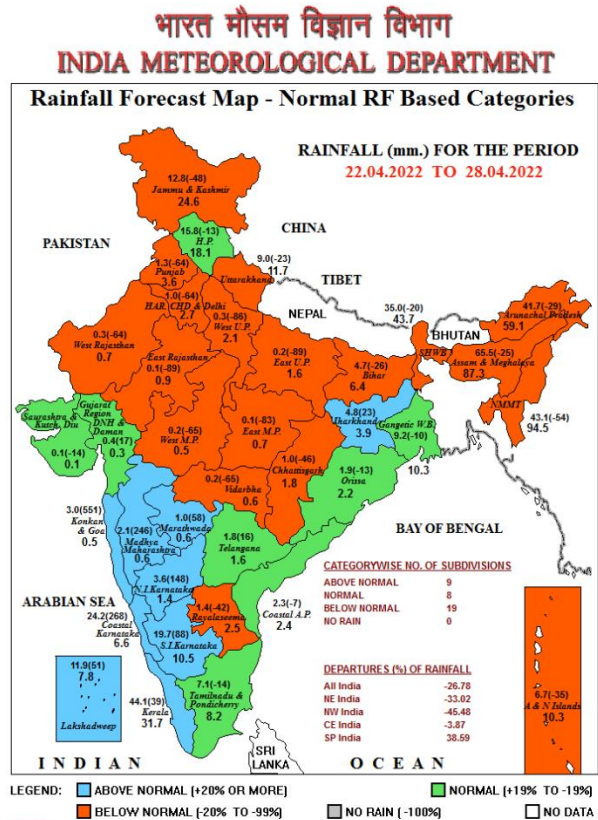
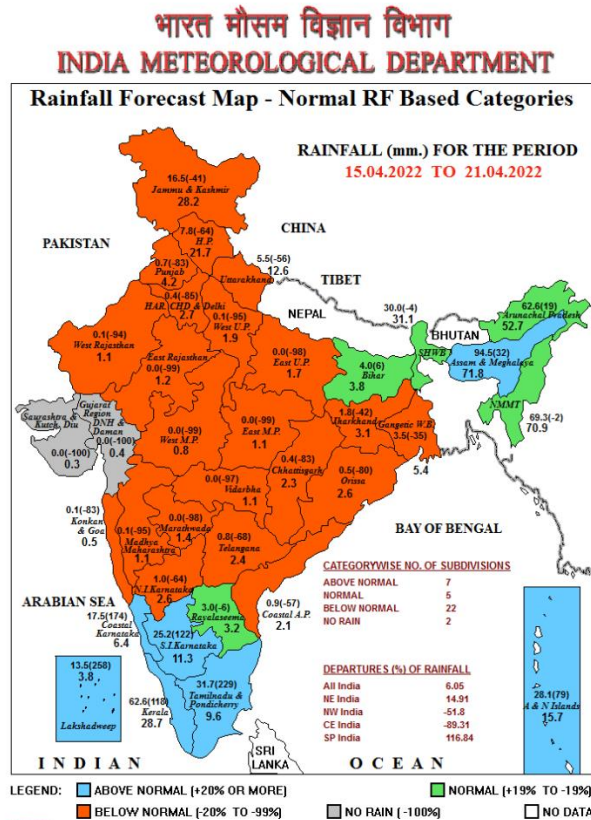
### Realized Rainfall (31<sup>st</sup> March to 13<sup>th</sup> April, 2022)



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

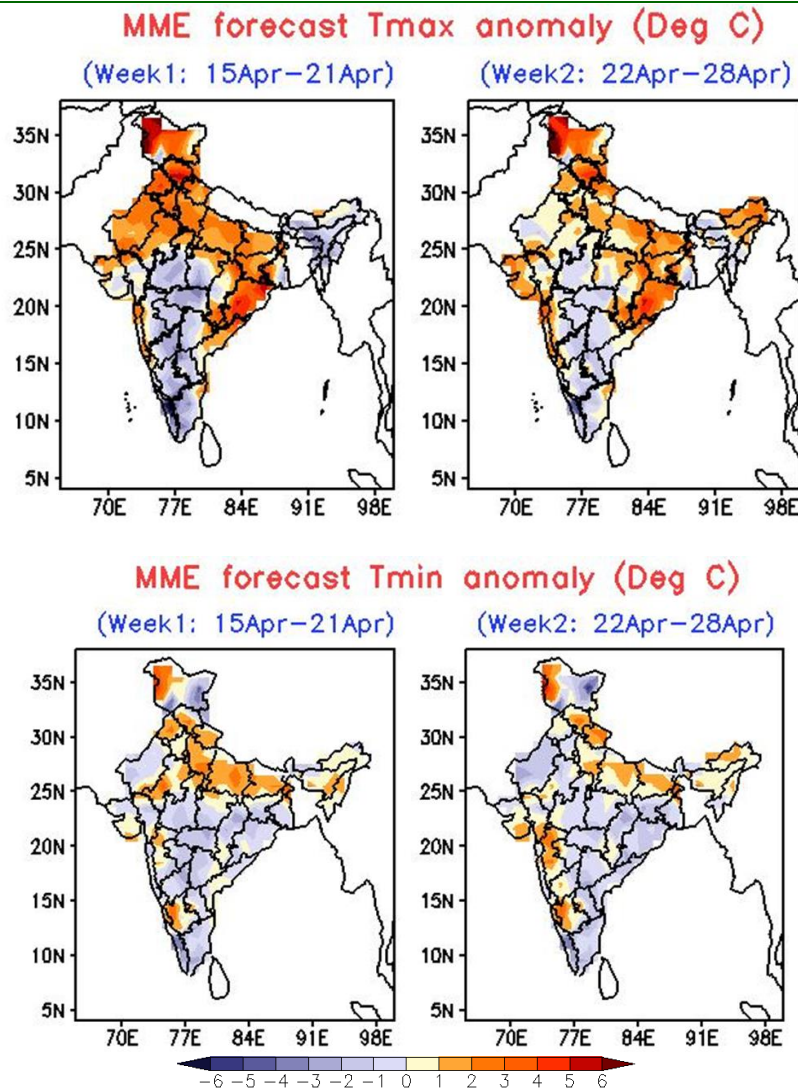
## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 13 April) (15<sup>th</sup> to 28<sup>th</sup> April, 2022)



- Week 1 (15.04.2022 to 21.04.2022) and Week 2 (22.04.2022 to 28.04.2022):** Northeast India will be under the influence of rainfall associated with thunderstorms. Extreme north India will have the influence of Western Disturbances. The south peninsula will remain active, associated with the cyclonic circulation.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 13 April)  
(15<sup>th</sup> to 28<sup>th</sup> April, 2022)**



**Maximum Temperature (Tmax)**

- **Week 1 (15.04.2022 to 21.04.2022) and Week 2 (22.04.2022 to 28.04.2022):** Slightly below normal Tmax over parts of central India in week 1 and week 2, whereas above normal Tmax is likely over northwest India, north India (UP, Bihar) north-eastern India and parts of eastern coastal states of India (Odisha, Chhattisgarh and adjoining region).

**Minimum Temperature (Tmin)**

- **Week 1 (15.04.2022 to 21.04.2022) and Week 2 (22.04.2022 to 28.04.2022):** Central and east-central parts of India will have slightly negative anomalies covering Odisha, Chhattisgarh during the period. However, northern and north-western India as well as northeast India will have positive anomalies.

## **Strategic Agricultural Planning based on rainfall during the next two weeks till 28 April 2022**

### **Agro-met Advisories**

#### **Kerala**

The amount of rainfall received over Kerala is 188 mm (123% large excess) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) is above normal for week-1 and week-2.

- Due to heavy winds, lodging may occur in banana orchard. To prevent, it is advised to provide staking for support to the banana plants.
- Flooding is reported in places due to heavy rainfall. It is advised to ensure proper drainage in the field.

#### **Tamil Nadu**

The amount of rainfall received over Tamil Nadu is 55 mm (37% excess) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) is above normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for Tristeza wilt in acid lime. To control, it is advised for periodic spray of insecticide like Monocrotophos 0.05 % to reduce the secondary spread of the disease in the orchard.
- Under prevailing weather conditions, it is advised to provide adequate clean water and balanced diet to the fowls to avoid heatstroke.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 6 mm (-5% deficit); Marathwada is 1 mm (-88% large deficit); Konkan region is 4 mm (144% large excess) and no rainfall over Vidarbha was observed during 01 March - 16 April 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; above normal over Konkan, Madhya Maharashtra and Marathwada and below normal over Vidarbha for week-2.

#### *Vidarbha*

- Prevailing high maximum temperature favors the infestation of sap sucking pests like aphids and jassids in summer groundnut and sunflower. To control, it is advised to spray of Imidacloprid 17.8 % EC @ 2.0 to 2.5 ml per 10 litres of water.
- Summer deep ploughing of harvested fields is advised to expose the hibernating insects, larvae/pupa to sun and predator birds.

#### *Madhya Maharashtra*

- To reduce the rate of evapotranspiration in fruit crops like grape, pomegranate, mango and



sapota and to maintain soil temperature in the orchard, mulching with sugarcane trash or farm waste @ 5 to 7 tons per ha is recommended.

- Under prevailing weather conditions, watering is advised to the seedling in the nursery as per requirement in the summer season.

#### *Konkan*

- Prevailing hot/summer weather condition may cause pre-mature fruit drop in mango orchard. To minimize fruit drop, it is advised to apply 100 litres /tree at weekly or 150 to 200 litres/tree at 15 days interval as per availability of water and also use straw mulch to reduce evaporation losses.

#### **Hisar**

The amount of rainfall received over Hisar is 0.2 mm (-99% large deficit) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to harvest the matured mustard crop.
- Under prevailing hot weather conditions, farmers are advised to maintain good amount of water in pond to save fishes from variable weather.

#### **Uttar Pradesh**

No rainfall was received during 01 March - 16 April 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Due to the dry weather condition, farmers are advised to maintain the soil moisture in *zaid* maize, green gram, black gram and vegetable crops.
- Under prevailing dry weather conditions, farmers are advised to harvest pulse crops.

#### *Eastern Uttar Pradesh*

- Under prevailing weather condition, to prevent premature fall of mango it is advised to spray Naphthalene acetic acid @ 20g/ litre of water.
- Due to increasing day temperature, farmers are advised to keep animals inside the shed and provide clean drinking water to avoid heat stroke.

#### **Karnataka**

Rainfall received during 01 March - 16 April 2022 over South Interior Karnataka is 52 mm (75% large excess) and 19 mm (3% excess) received over North Interior Karnataka. The extended range weather

forecast (rainfall) for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over South Interior Karnataka is above normal and North Interior Karnataka is below normal for week-1 and above normal over South Interior Karnataka and North Interior Karnataka for week-2.

#### *South Interior Karnataka*

- To protect the pulse grains from storage pests, it is advised to apply oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains.
- Due to continuous dryspell in previous month months, termite attack is common in horticulture crops, forestry tree and shrubs. To control it is advised to apply Aldrin termiticide.

#### **Jammu**

The amount of rainfall received over Jammu is 22 mm (-90% large deficit) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Jammu is below normal for week-1 and week-2.

- For the management of fruit borer in tomato /brinjal/okra, it is advised to spray Cypermethrin @ 1ml/litre of water.

#### **Assam**

The amount of rainfall received over Assam is 293 mm (83% large excess) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Assam is above 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 is advised.
- Present weather condition is congenial for occurrence of blast disease in boro rice. To control, it is advised to spray Carbendazim or Thiophanate methyl @ 1g/litre of water during clear weather condition.

#### **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh is 5 mm (-79% large deficit) and over Rayalaseema 4 mm (-75% large deficit) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Coastal Andhra Pradesh is below normal and Rayalaseema is normal for week-1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh 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.
- In Srikakulam, Vizianagaram, Kurnool, Nellore, East Godavari and Ananthapuramu districts,

present weather conditions are favorable for the incidence of fall armyworm in maize. Based on the intensity of the pest incidence, spraying of Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water is recommended.

### **Odisha**

The amount of rainfall received over Odisha is 5 mm (-87% large deficit) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Odisha is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, it is advised to harvest the mature produce like cauliflower, cabbage, tomato, chilli, cucurbits.
- To manage gundhi bug infestation in summer paddy, it is advised to spray Chlorpyrifos 20% EC @ 400 ml/acre or Malathion 50% EC @ 400 ml/acre by mixing in 200 litres of water.

### **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh is 9 mm (-94% large deficit) during 01 March - 16 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (15 - 21 April 2022 and 22 - 28 April 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather conditions, farmers are advised for picking tea at 8-10 day intervals 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:**

*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.*