



# **National Agromet Advisory Service Bulletin**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 13 May - 26 May 2022**

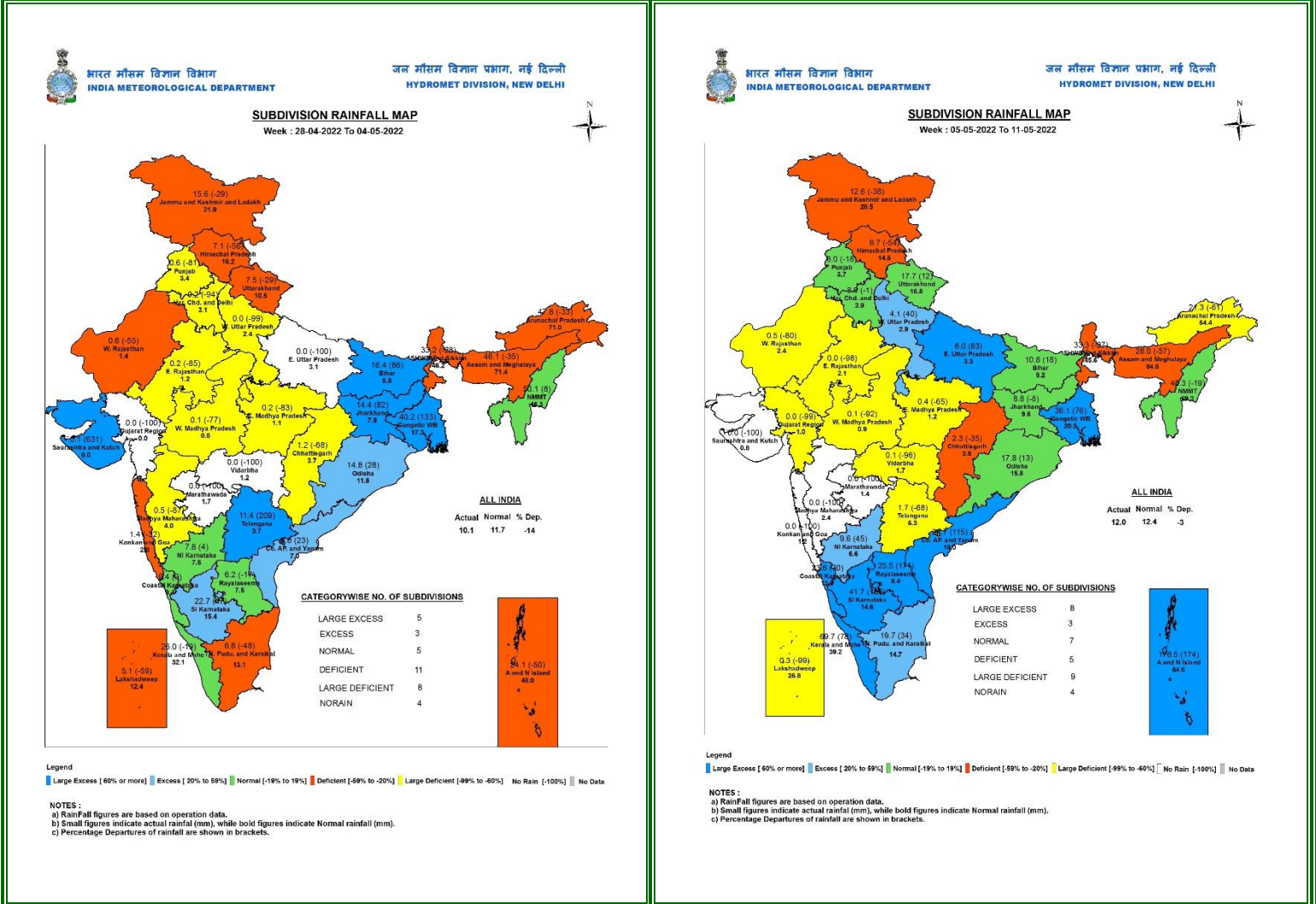
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&  
India Meteorological Department (IMD)  
Earth System Science Organization**

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

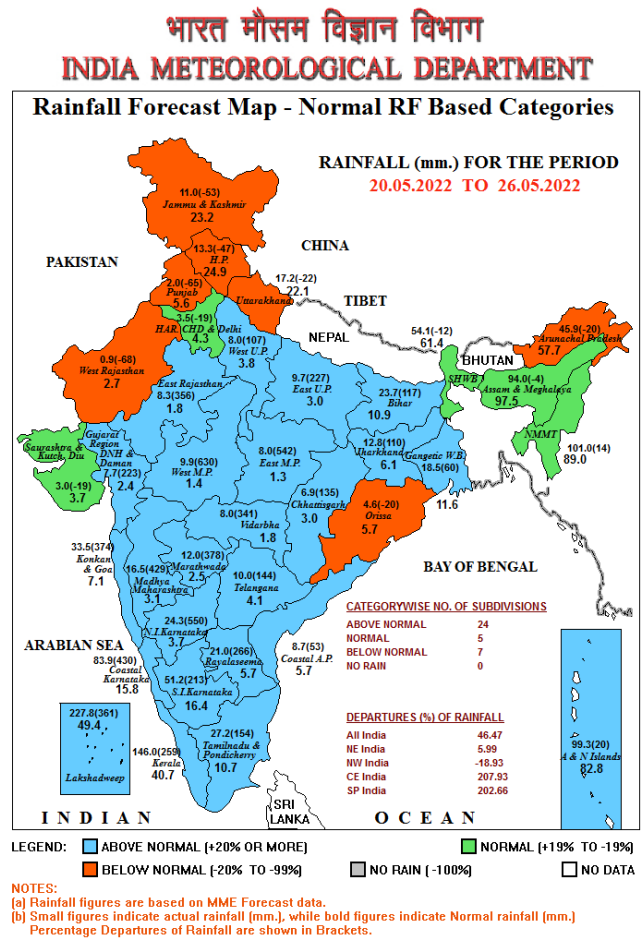
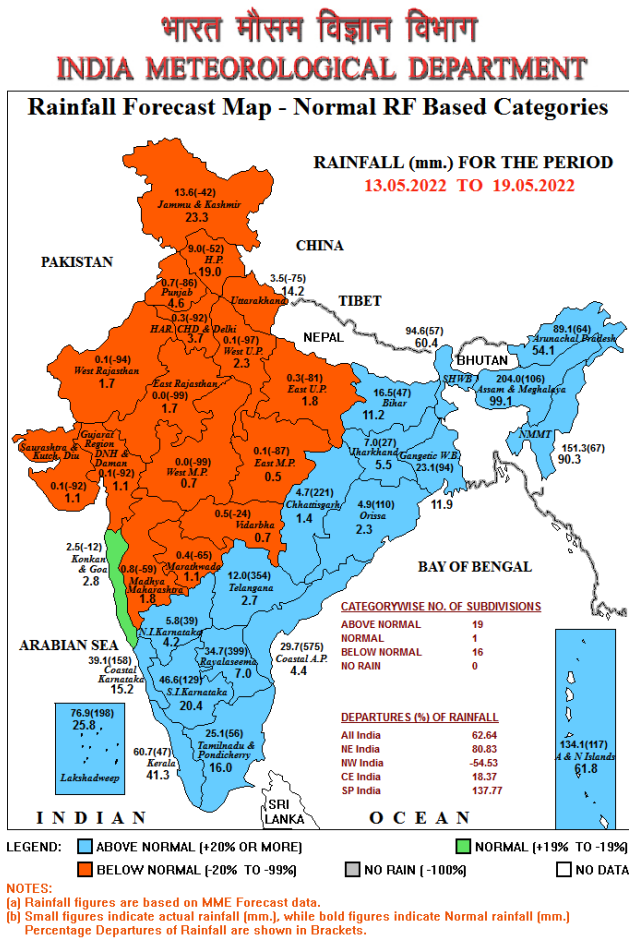
### Realized Rainfall (28<sup>th</sup> April to 11<sup>th</sup> May, 2022)



- Normal or above normal rainfall occurred in both the weeks over Bihar, Jharkhand, Odisha, Gangetic West Bengal, Nagaland Manipur Mizoram & Tripura (NMMT), Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, Saurashtra & Kutch, Telangana, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred over rest of the States & UTs.

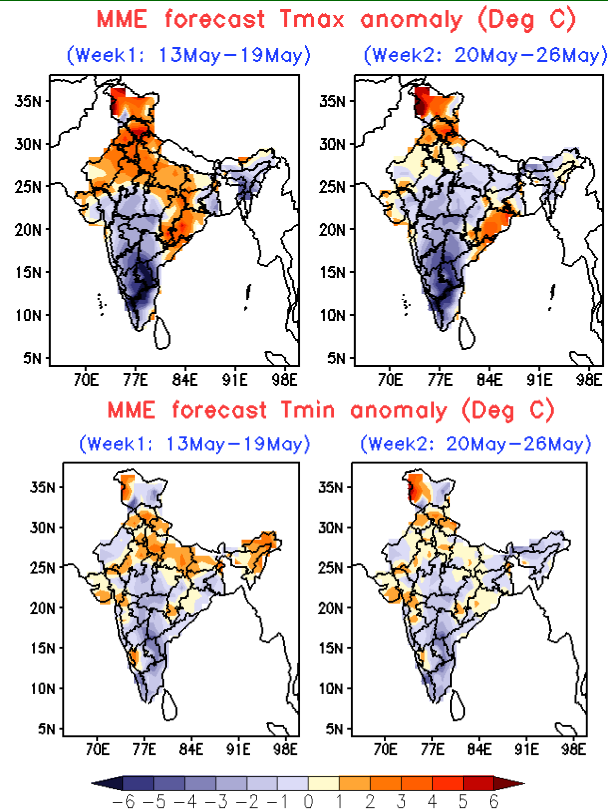
## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 11 May) (13<sup>th</sup> to 26<sup>th</sup> May, 2022)



- Week 1 (13.05.2022 to 19.05.2022) and Week 2 (20.05.2022 to 26.05.2022):** Under the influence of trough and cyclonic circulation over northeast India, thunderstorms associated rainfall will continue over this region during week 1. The South peninsula will also remain active in week 1. (Onset over Andaman Sea in week 1 is likely). The rainfall over the South peninsula and adjoining Southeast Arabian Sea will be above normal in week 2. This will be associated with circulation over the southeast Arabian Sea and can bring monsoon over Kerala.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC – 11 May)  
(13<sup>th</sup> to 26<sup>th</sup> May, 2022)**



**Maximum Temperature (Tmax)**

- **Week 1 (13.05.2022 to 19.05.2022) and Week 2 (20.05.2022 to 26.05.2022):** Northwest India and the adjoining region of Uttar Pradesh, Bihar and also the eastern coastal region of Odisha and adjoining Jharkhand, Chhattisgarh will have above-normal Tmax in week 1. Above normal Tmax over some parts of north India and Odisha region is likely to continue in week 2 also. South peninsula and adjoining central India will have below normal Tmax in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (13.05.2022 to 19.05.2022) and Week 2 (20.05.2022 to 26.05.2022):** Central and east-central parts of India will have normal to slight negative Tmin anomalies during the period. However, northern India and adjoining Uttar Pradesh and Bihar will have positive Tmin anomalies mainly during week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during the next two weeks till 26 May 2022

### Agromet Advisories

#### Kerala

The amount of rainfall received over Kerala is 339 mm (69% large excess) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) is above normal for week-1 and week-2.

- To avoid the damage to vegetable gardens due to summer rains and heavy wind, it is advised to provide proper staking, ensure drainage facilities in the field, strengthen the pandals and harvest the matured vegetables.
- To prevent the powdery mildew disease in vegetable crops, it is advised to spray *Pseudomonas* @ 20 g per litre once a week. In case of severe infections, spray wettable sulphur @ 4 g per litre.

#### Tamil Nadu

The amount of rainfall received over Tamil Nadu is 104 mm (20% excess) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for mealybug incidence in guava and mango. Farmers are advised to spray Triazophos 2 ml+ Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml + Neem oil 5 ml/litre.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

#### Maharashtra

9 mm (-40% deficit) rainfall over Madhya Maharashtra; 2 mm (-90% large deficit) in Marathwada; 11 mm (86% large excess) in Konkan region and 1 mm (-94% large deficit) over Vidarbha was observed during 01 March - 12 May 2022. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Konkan is normal and below normal over Madhya Maharashtra, Marathwada and Vidarbha for week-1 and above normal over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-2.

#### Vidarbha

- To reduce the impact of heat wave, farmers are advised to maintain adequate moisture in the soil profile of summer crops, vegetables and orchards by applying irrigation during early morning or evening hours.
- Under prevailing weather condition, it is advised to provide proper ventilation and heat protection in the animal/poultry sheds and also apply gunny bags/grass on roof of shed with sprinkling of water is advisable to reduce heat impact.

### *Konkan*

- Due to rise in temperature and decrease in humidity, it is advised to provide irrigation to arecanut and coconut orchards at 3-4 days interval.
- Under prevailing weather condition, there is possibility of incidence of aphids, hoppers on okra crop. If incidence is noticed, it is advised to spray Dimethoate 30% EC @ 15 ml per 10 litres or Lambda cyhalothrin 5% EC @ 6 ml per 10 litres of water.

### **Hisar**

The amount of rainfall received over Hisar was 4 mm (-85% large deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) is below normal for week-1 and normal for week-2.

- As there is a possibility of variable or dry weather and increase in day temperature, farmers are advised to apply light irrigation for vegetable crops and fruits plants as per requirement.
- Farmers are advised to safeguard themselves under the heatwave conditions.

### **Uttar Pradesh**

The amount of rainfall received over East Uttar Pradesh was 6 mm (-66% large deficit) and over West Uttar Pradesh was 4 mm (-79% deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal for 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.
- Farmers are advised to follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

### **Jammu**

65 mm of rainfall (-78% large deficit) was received over Jammu during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, ploughing of the fallow land for soil solarization against insect pests and weed infestation is advised.
- Monitoring in tomato crop for leaf curl disease is advised. For management, it is advised to remove virus infected plants and spray Imidacloprid @ 0.5ml/litre of water to check further spread of disease by whitefly.

## **Assam**

The amount of rainfall received over Assam during 01 March - 12 May 2022 was 476 mm (23% excess). The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Assam is above normal for week-1 and normal for week-2.

- To avoid water stagnation in the field during the rainy season, it is advised to provide small drains at required intervals to facilitate easy drainage of excess rainwater.
- To protect the goats and sheep from contagious Ecthyma disease, immunize them at 6-8 weeks of age with vaccines after proper consultation with a veterinary doctor.

## **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh was 86 mm (39% excess) and over Rayalaseema 56 mm (26% excess) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and week-2.

- Present weather conditions are favorable for sucking pests in papaya grown in Srikakulam, Vizianagaram and West Godavari districts. For effective control of sucking pests, spraying of Imidacloprid @ 0.3g/litre of water is recommended.
- In Visakhapatnam, Kadapa, Nellore, Vizianagaram, Krishna, West Godavari, Prakasam Anantapur and Kurnool districts, the present weather conditions are favorable for the incidence of leaf folder and stem borer in rice. For effective control, spraying of Acephate @ 1.5g or Chlorantraniliprole @ 0.4 ml/litre of water is advised.

## **Gujarat**

No rainfall was received during 01 March - 12 May 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Gujarat is below normal for week-1 and above normal for week-2.

- Under prevailing weather conditions, there is a possibility of incidence of sucking pests like leafhopper in okra. To control, it is advised to spray Neem-based insecticides 5 EC @ 10 ml to 60 ml (0.03 EC) or *Verticillium lecanii* powder in evening hours at an interval of 10 days.

## **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh was 27 mm (-87% large deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- The farmers are advised to visit their polyhouses regularly and monitor the crops raised in them.

For maintaining the optimum temperature in the polyhouses it is advised to open the side vents during daytime.

- Dairy farmers are advised to get their milch animals vaccinated for Foot and Mouth Disease (FMD) during this period.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh was 14 mm (-55% deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Chhattisgarh is above normal for week-1 and week-2.

- Deep ploughing of the field should be done and covered with polythene. This will prevent crops from soil-borne diseases, weeds and insect eggs will be destroyed in the soil.
- Due to the forecast of light to moderate cloudiness and light rain in the coming days, farmers are advised not to irrigate the groundnut, oil seeds and sugarcane crops.

### **West Bengal**

The amount of rainfall received over Gangetic West Bengal was 88 mm (-25% deficit) and Sub Himalayan West Bengal received 340 mm (30% excess) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) is above normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-1 and above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-2.

- To prevent fruit drop and increase fruit size of mango, it is advised to spray Plano fix @ 3ml/15litres of water along with compound micronutrient @ 45g/15 litres of water.
- In present weather conditions, caterpillars can infest the leaves of jute crop. To protect, it is advised to spray Fenvalerate @ 2 ml/ litre of water.

### **Karnataka**

Rainfall received during 01 March - 12 May 2022 over South Interior Karnataka was 156 mm (93% large excess) and 60 mm (39% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

#### *South Interior Karnataka*

- Due to heavy downpour of rain and thunderstorm, fruit drop was observed in mango. For suitable control measures, it is advised to spray Carbaryl 4 g/litre of water.
- After receiving rainfall, farmers are advised for ploughing of fields, to improve infiltration and conservation of rainwater.

### **Rajasthan**



The amount of rainfall received over Rajasthan was 3 mm (-68% deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Rajasthan is below normal for week-1 and above normal for week-2.

- Farmers are advised to maintain the optimum moisture level in the fields of cucurbitaceous crops as dry weather conditions may lead to poor pollination and thus drop in yield of the crop.
- Because of increasing temperature, farmers are advised to irrigate the summer green gram at frequent intervals.

### **Punjab**

The amount of rainfall received over Punjab was 5 mm (-90% large deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Punjab is below normal for week-1 and week-2.

- Farmers are advised to frequently irrigate the crops/orchards/ vegetables so as to save the crops from prevailing high temperatures.
- Fruit drop is increasing with rise in temperature. Keep the soil moisture at optimum level in peach and plum orchards. In citrus, litchi and mango, apply light and frequent irrigations.

### **Madhya Pradesh**

The amount of rainfall received over Madhya Pradesh was 2 mm (-91% large deficit) during 01 March - 12 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 May 2022 and 20 - 26 May 2022) over Madhya Pradesh is below normal for week-1 and above normal for week-2.

- Due to extreme rise in day temperature, it is advised to irrigate the summer crops, vegetables, nurseries, fodder crops and orchards at weekly intervals during early morning or late evening hours.

### **Disclaimer:**

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