



# **National Agromet Advisory Service Bulletin**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 03 - 16 June 2022**

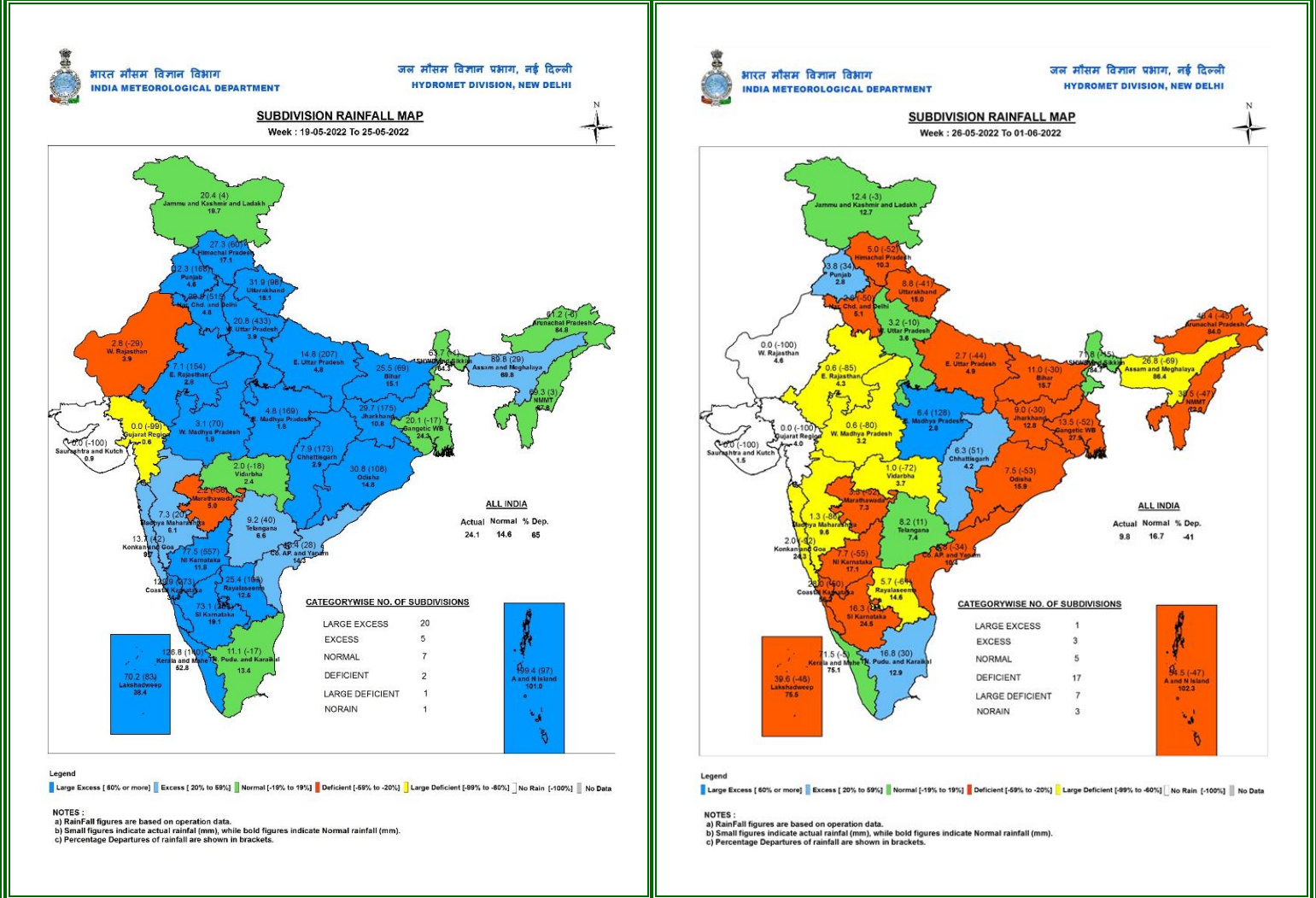
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Central Research Institute for Dryland Agriculture (CRIDA)  
Indian Council of Agricultural Research (ICAR)  
&  
India Meteorological Department (IMD)  
Earth System Science Organization**

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

### Realized Rainfall (19<sup>th</sup> May to 1<sup>st</sup> June, 2022)



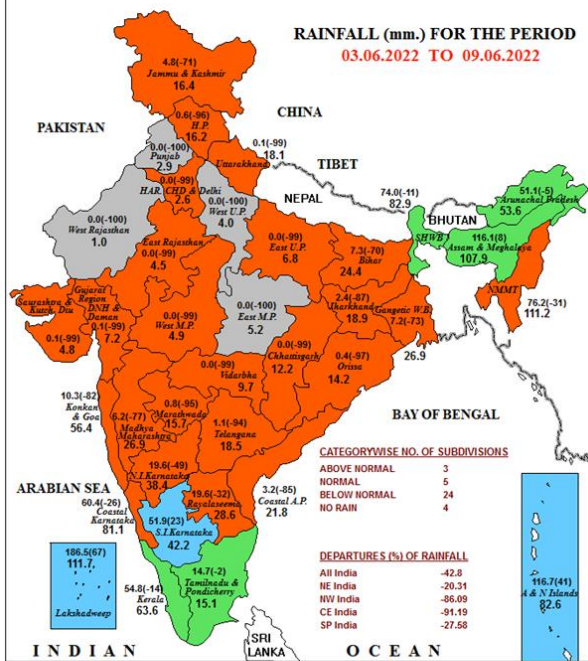
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim, West Uttar Pradesh, Punjab, Jammu & Kashmir and Ladakh (UTs), East Madhya Pradesh, Chhattisgarh, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Telangana.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Uttarakhand, East Uttar Pradesh, Haryana Chandigarh & Delhi, East Rajasthan, Gangetic West Bengal, Odisha, Bihar, Jharkhand, Konkan & Goa, Madhya Maharashtra, Vidarbha, West Madhya Pradesh, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Lakshadweep 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 – 1<sup>st</sup> June) (3<sup>rd</sup> to 16<sup>th</sup> June 2022)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

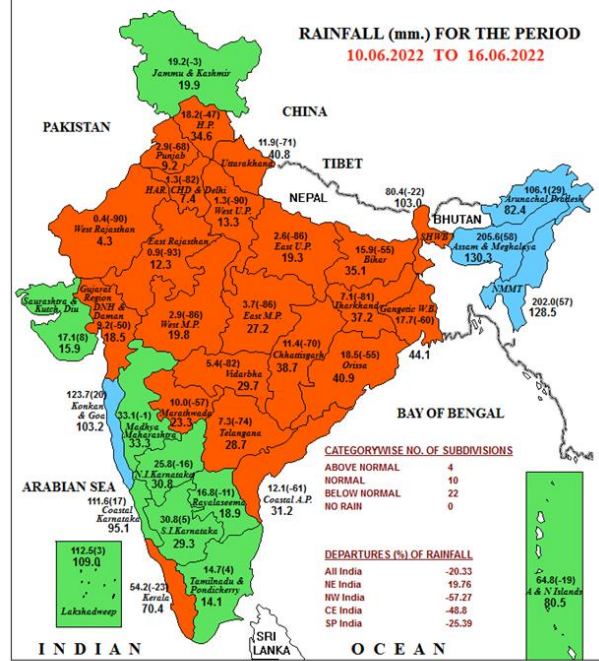
##### Rainfall Forecast Map - Normal RF Based Categories



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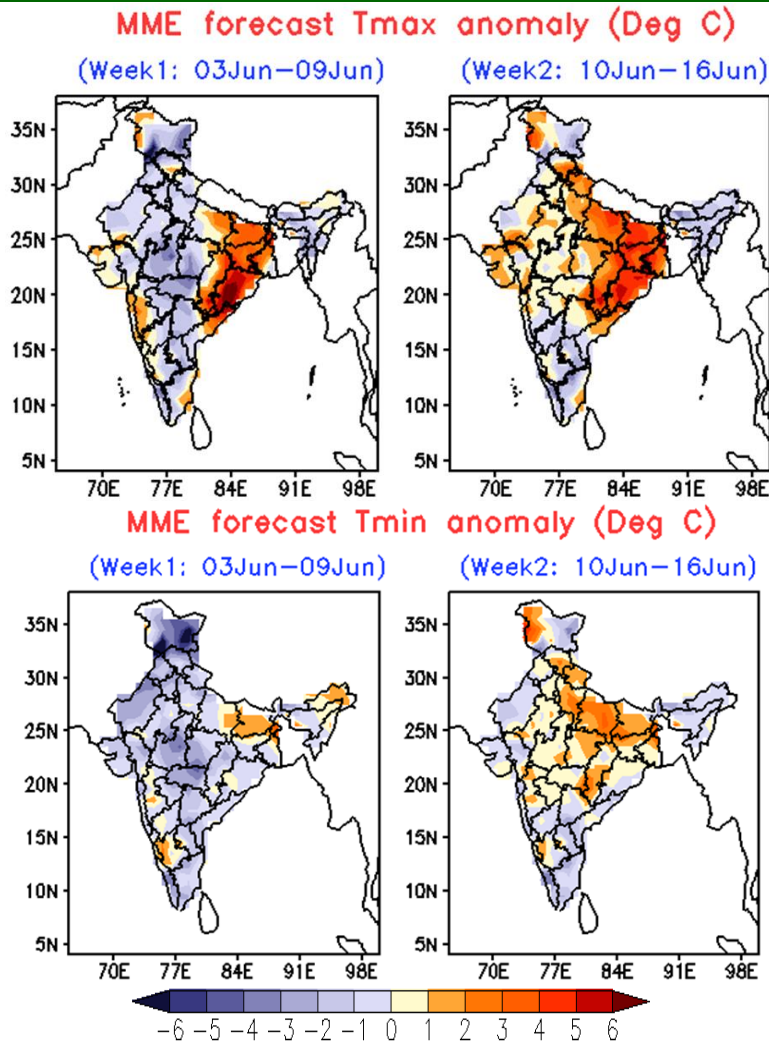
##### Rainfall Forecast Map - Normal RF Based Categories



**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.

- **Week 1 (03.06.2022 to 09.06.2022):** The South peninsula and NE India will get rainfall in week 1. However, the rainfall is likely to be below normal in week 1 over most parts of India.
- **Week 2 (10.06.2022 to 16.06.2022):** Monsoon rainfall will increase over western parts of India and also over the Northeast India. The rainfall is likely to be below normal in week 2 also over most parts of India.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 1<sup>st</sup> June)  
(3<sup>rd</sup> to 16<sup>th</sup> June 2022)**



**Maximum Temperature (Tmax)**

- **Week 1 (03.06.2022 to 09.06.2022) and Week 2 (10.06.2022 to 16.06.2022):** Some parts of eastern coastal region of Odisha and adjoining Jharkhand, Chhattisgarh, Bihar will have above normal Tmax **in both the weeks**. Rest of the region is mainly normal to slightly below normal.

**Minimum Temperature (Tmin)**

- **Week 1 (03.06.2022 to 09.06.2022) and Week 2 (10.06.2022 to 16.06.2022):** Higher Tmin over Indo-Gangetic regions and adjoining central India in week 2 and partly in week 1.

## Strategic Agricultural Planning based on rainfall during the next two weeks till 16 June 2022

### Agromet Advisories

#### Kerala

The amount of rainfall received over Kerala is 30 mm (-34% deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) is normal for week-1 and below normal for week-2.

- During rainy season, there is a chance of sigatoka disease in banana. As a prophylactic measure, it is advised to spray 20g *Pseudomonas* per one litre of water.
- Because of high moisture content in the atmosphere, there is a chance for the development of mahali disease in arecanut and coconut. For management, spraying of Copper oxy chloride @ 3g per litre of water during clear weather condition is advised.

#### Tamil Nadu

The amount of rainfall received over Tamil Nadu is 4 mm (-33% deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) is normal for week-1 and week-2.

- Prevailing weather condition is favorable for mealybug infestation 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

4 mm (-48% deficit) rainfall over Madhya Maharashtra; 4 mm (-33% deficit) in Marathwada; 7 mm (22% excess) in Konkan region and 0.7 mm (-80% large deficit) over Vidarbha was observed during 01 - 03 June 2022. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and over Konkan is above normal, normal over Madhya Maharashtra and below normal over Marathwada and Madhya Maharashtra for week-2.

#### *Madhya Maharashtra*

- To reduce rate of evapotranspiration in fruit crops like grape, pomegranate, mango and sapota and to maintain soil temperature in fruit orchards, mulching with sugarcane trash or farm waste @ 5 to 7 tons per ha is recommended.
- Under prevailing hot weather, it is advised to protect newly planted orchard from heat by temporary shed over the plants.

#### *Konkan*

- To prevent the incidence of bud rot disease on young coconut plant during monsoon season, it is advised to spray 1% Bordeaux mixture onto the crown region of palm.

#### *Marathwada*

- For plantation of pomegranate, farmers are advised to select varieties like *Bhagwa*, *Phule Bhagwa Super*, *Ganesh*, *Phule arkata* etc.

#### **Hisar**

The amount of rainfall received over Hisar was 0.1 mm (-96% large deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) is below normal for week-1 and 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.
- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as a fodder crop.

#### **Uttar Pradesh**

The amount of rainfall received over East Uttar Pradesh was 0.4 mm (-28% deficit) and no rainfall observed over West Uttar Pradesh during 01 - 03 June 2022. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over West Uttar Pradesh is no rainfall and over East Uttar Pradesh below normal for week-1 and; over East Uttar Pradesh and West Uttar Pradesh is below normal for week-2.

#### *Western Uttar Pradesh*

- Under prevailing weather condition, sowing of short duration varieties of pigeon pea like *Paras*, *UPAS-120*, *Type-21* and *Pusa-992* after 30 May is advised.
- Farmers are advised to follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

#### *Eastern Uttar Pradesh*

- Farmers are advised to maintain optimum moisture level in cucurbitaceous crops by light and frequent irrigation as dry conditions may lead to poor pollination and thus drop in yield of the crop.
- Due to changing weather and increasing day temperature, farmers are advised that, keep the animals inside the shade and clean the area around the shed to avoid infestation of house flies and others.

#### **Jammu**

2 mm of rainfall (-70% large deficit) was received over Jammu during 01 - 03 June 2022. The extended

range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Jammu is below normal for week-1 and normal for week-2.

- Due to rise in temperature, farmers are advised to protect young fruit plants from heat by providing thatches/cover but ensure free circulation of air.

### **Assam**

The amount of rainfall received over Assam during 01 - 03 June 2022 was 37 mm (normal rainfall). The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Assam is normal for week-1 and above normal for week-2.

- Taking advantage of pre-monsoon rainfall received during the pre-monsoon season, farmers can start nursery bed preparation for sowing of *Sali* rice seeds. Recommended high yielding *sali* rice varieties are *Ranjit*, *Ranjit Sub 1*, *Bahadur*, *Satyanaranjan*, *Basundhara*, *Mahsuri*, *Ketekijoha* etc.
- Under prevailing weather condition, farmers are advised to make provisions for small drains at required interval in the orchards to drain out excess water. Harvest the matured vegetables and fruits as early as possible and also provide mechanical support to the crops like banana, citrus, papaya etc. to protect them from lodging.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh was 0.2 mm (-95% large deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Chhattisgarh is below 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.
- Need based irrigation and intercultural operation is advised in tomato, brinjal, chilli, okra and other vegetable crops and also increase the frequency of irrigation as per environment temperature.

### **West Bengal**

The amount of rainfall received over Gangetic West Bengal was 19 mm (50% excess) and Sub Himalayan West Bengal received 24 mm (-29% deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) is below normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-1 and below normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- Under prevailing weather condition, farmers are advised to complete the harvest of rice crop immediately and store their produce in a safer place.

- For the management of mango hopper in orchard, it is advised to spray Dimethoate 30 EC @ 10ml/10 litres of water.

### **Karnataka**

Rainfall received during 01 - 03 June 2022 over South Interior Karnataka was 9 mm (-31% deficit) and 17 mm (83% large excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over South Interior Karnataka is above normal and below normal over North Interior Karnataka for week-1 and; normal over South Interior Karnataka and North Interior Karnataka week-2.

#### *South Interior Karnataka*

- Due to sufficient rainfall received in May, sowing of long duration crops like red gram (*BRG-1, 2, 4 & 5, TTB-7*) and Castor (*DCH-9, 32 & 177*) is recommended.
- Farmers are advised for land preparation and strengthen the bund with fodder grass to facilitate the conservation of rainwater due to pre-monsoon showers.

### **Uttarakhand**

The amount of rainfall received over Uttarakhand was 0.1 mm (-99% large deficit) during 01 - 03 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, transplantation of chilli seedling is advised.

### **Andhra Pradesh**

The amount of rainfall received over Coastal Andhra Pradesh was 0.1 mm (-98% large deficit) and over Rayalaseema 8 mm (4% excess) during 01 - 03 June 2022. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 June 2022 and 10 - 16 June 2022) over Coastal Andhra Pradesh and Rayalaseema is below normal for week-1 and normal over Rayalaseema and below normal over Coastal Andhra Pradesh for week-2.

- Present weather conditions are favorable for the incidence and spread of sigatoka leaf spot disease in banana grown in Vizianagaram, Nellore and Kadapa districts. To control the spread of this disease, spraying of Propiconazole @ 0.1% (or) Tebuconazole + Trifloxystrobin @ 1ml/litre for 2-3 times in 25 days interval is recommended.



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