



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity:** 14 - 27 May 2021

**Date of issue:** 14 May 2021

Issued by

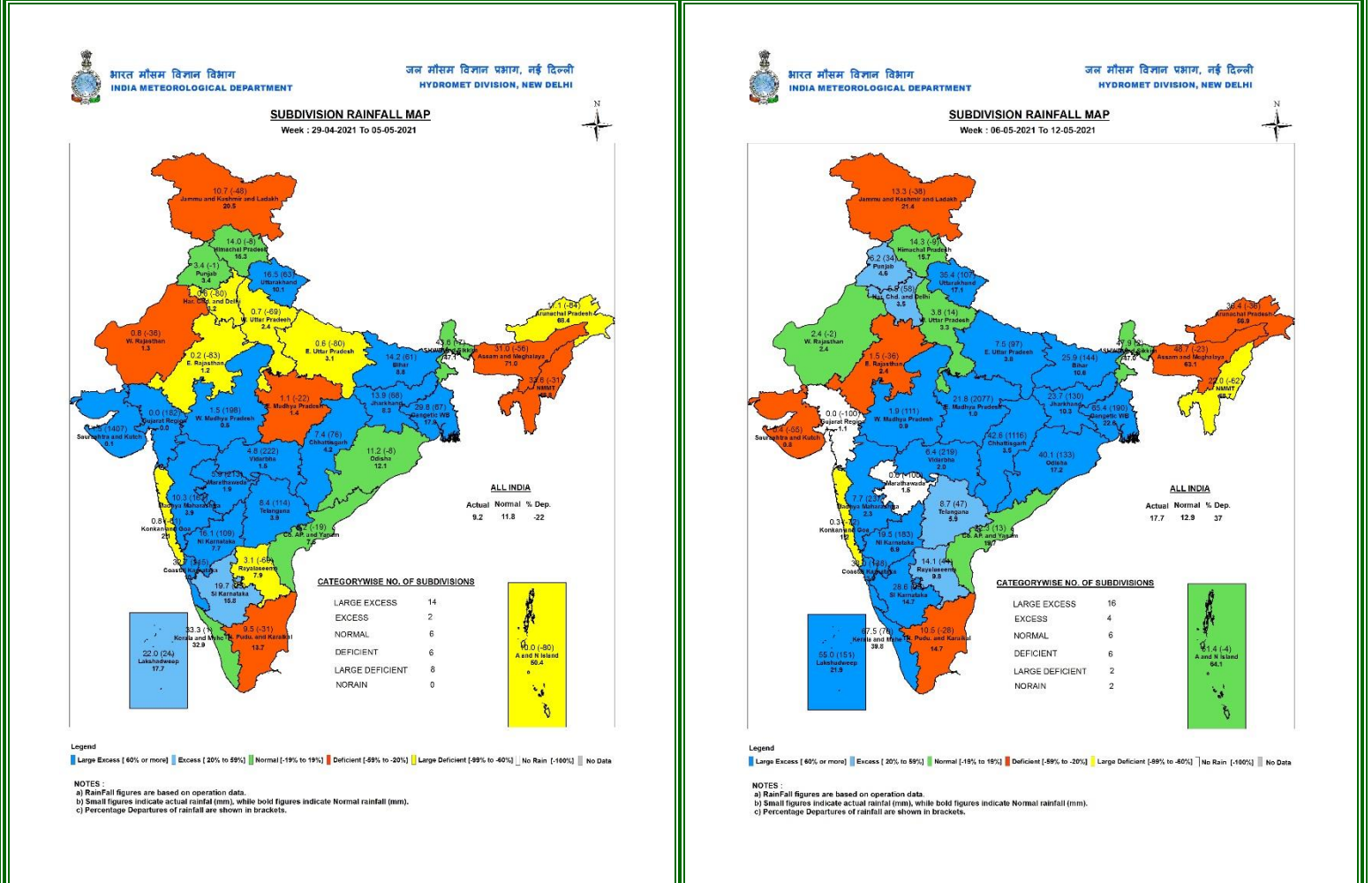
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

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

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

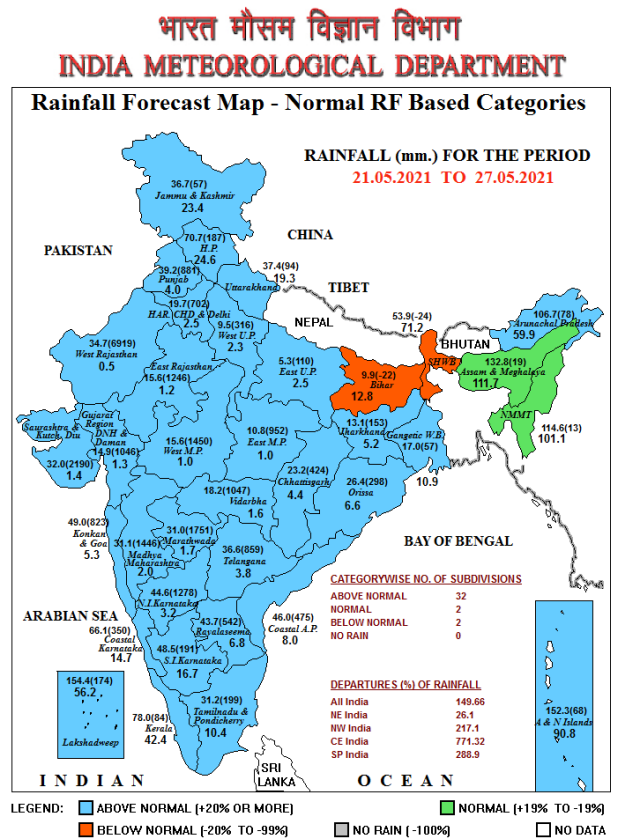
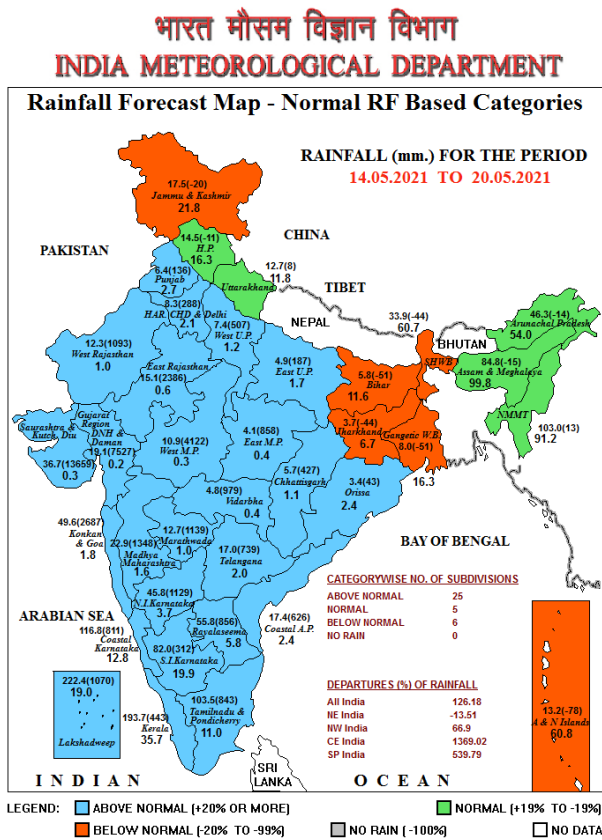
### Realized Rainfall (29<sup>th</sup> April to 12<sup>th</sup> May, 2021)



- Normal or above normal rainfall occurred in both the weeks in Karnataka, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, Madhya Maharashtra, Vidarbha, West Madhya Pradesh, Chhattisgarh, Himachal Pradesh, Uttarakhand, Punjab, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, and Lakshadweep
- Normal or above normal rainfall occurred in either of the two weeks in Rayalaseema, Gujarat, East Madhya Pradesh, Marathwada, Uttar Pradesh, Haryana Chandigarh Delhi, West Rajasthan 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 forecast maps for the next 2 weeks (IC – 12 May) (14<sup>th</sup> to 27<sup>th</sup> May, 2021)



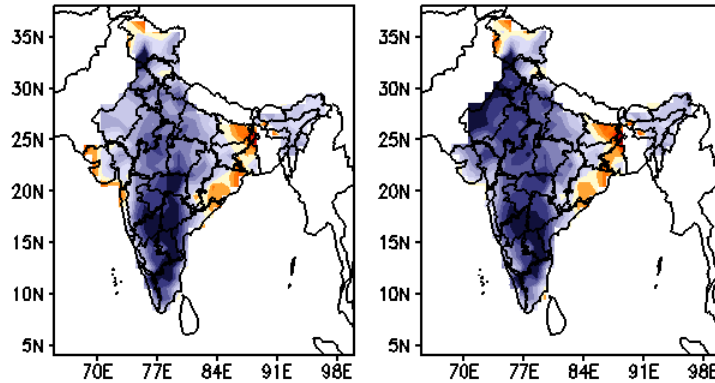
- **Week 1 (14.05.2021 to 20.05.2021) and Week 2 (21.05.2021 to 27.05.2021):** South peninsula (Kerala and Tamil Nadu) will get above normal rainfall during week 1 associated with the system. Rainfall likely over many parts of India including southern peninsula in week 2.
- Onset of monsoon condition will be favourable over the Kerala coast and south western coast towards the end of week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 12 May)  
(14<sup>th</sup> to 27<sup>th</sup> May, 2021)**

**MME forecast Tmax anomaly ( $\text{Deg C}$ )**

(Week1: 14May–20May)

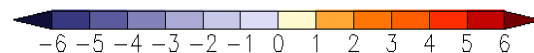
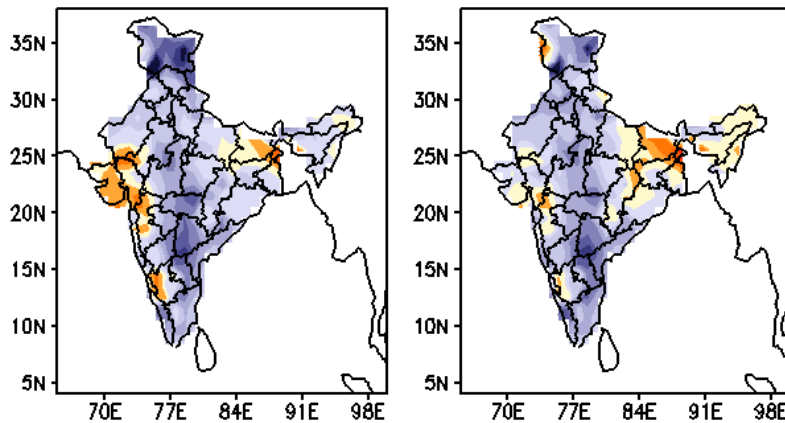
(Week2: 21May–27May)



**MME forecast Tmin anomaly ( $\text{Deg C}$ )**

(Week1: 14May–20May)

(Week2: 21May–27May)



**Maximum Temperature (Tmax)**

- **Week 1 (14.05.2021 to 20.05.2021) and Week 2 (21.05.2021 to 27.05.2021):** Except for the State of Odisha, Gangetic West Bengal, Jharkhand, Bihar & adjoining region and parts of western coast, the Tmax will be below normal over rest parts of India in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (14.05.2021 to 20.05.2021) and Week 2 (21.05.2021 to 27.05.2021):** Warm anomalies likely over isolated regions of western India and over the eastern belt of Odisha, Gangetic West Bengal, Jharkhand, Bihar, east Uttar Pradesh in week 1 and week 2 with slightly higher temp in week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 27 May 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 291.3 mm (41% excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) is above normal for week-1 and week-2.

- Under prevailing hot and dry weather condition, mulching in banana basins is advised to reduce temperature and conserve moisture.
- Due to high humidity condition, there may be the chance of downy mildew in cucurbits. To control, it is advised to spray Mancozeb 75 WP @ 3 g per litre.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 64.8 mm (-27% deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) is above normal for week-1 and week-2.

- Prevailing hot and dry weather condition is favorable for fruit dropping in Acid Lime. Farmers are advised to provide frequent water supply and add a layer mulch under trees.
- 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 34.1 mm (113% large excess), Marathwada is 18.0 mm (20% excess), and Vidarbha is 29.4 mm (41% excess) and Konkan region 4.9 mm (-22% deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) over Konkan, Madhya Maharashtra, Marathawada and Vidharbha is above normal for week-1 and week-2.

#### Marathwada

- Due to the chances of thunderstorm and rainfall, it is advised to harvest mature flowers as early as possible.
- For management of sucking pests in Ambe bahar citrus orchard, it is advised to spray Dimethoate 30% EC @ 13 ml or Imidacloprid 17.8% @ 3 ml per 10 litres of water.

#### Vidharbha

- 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

- Due to chances of rainfall, it is advised to harvest mature maize crop and store it safe place.

### *Konkan*

- Due to the chances of rise in temperature and high wind speed, it is advised to provide irrigation to newly planted coconut plant as per requirement and also provide staking with bamboo sticks.
- To prevent incidence of post-harvest diseases fruit rot on mango fruits, it is advised to place the fruits in hot water of 52°C for 10 minutes and then keep for ripening.

### **Hisar**

Amount of rainfall received over Hisar is 16.0 mm (-41% deficit) during 01 March 2021 - 13 May 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) over Hisar is above normal for week-1 and week-2.

- Due to the chances of increase in day temperature, farmers are advised to apply light irrigation in planted vegetable crops and fruits plants as per requirement.
- 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 - 13 May 2021 over South Interior Karnataka is 107.4 mm (29% excess) and North Interior Karnataka is 66.8 mm (49% excess). The extended range weather forecast (rainfall) for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

#### *South Interior Karnataka*

- For the management of incidence of leaf hopper it is advised to spray Azadirachtin (10,000 ppm) @ 7.0 ml/ 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.

#### *North Interior Karnataka*

- Farmers are advised to take up land preparation and keep the land ready for *kharif* sowing as soon as sufficient rainfall has been received.
- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia is advised.

### **Jammu**

Amount of rainfall received over Jammu is 218.0 mm (-26% deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Jammu is below normal for week-1 and above normal for week-

2.

- Due to chances of rain, farmers are advised to make necessary arrangements for safe storage of the threshed produce to prevent the infection of mould.
- For the management of shoot and fruit borer in brinjal and fruit borer in tomato, it is advised to spray Prophenfos @ 1ml/litre of water during clear weather.

### **West Bengal**

Amount of rainfall received over West Bengal is 131.0 mm (9% excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over West Bengal is below normal for week-1 and above normal for week-2.

- For the management of tomato white fly, it is advised to spray Imidacloprid (17.8 SL) @ 0.8 ml/litre of water or Acetamiprid 1 ml/litre of water.
- Under prevalent weather situation, there is chance of the attack of weevil in Jute crop. To control, it is advised to apply Endosulphan @ 2 ml per litre of water.

### **Odisha**

Amount of rainfall received over Odisha is 89.2 mm (4% excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Odisha is above normal for week-1 and week-2.

- Due to increase in day temperature may cause bacterial wilt disease in tomato and brinjal. It is advised to spray Streptocycline @ 1g per 10 litres of water in the root zone of the plants.
- Under prevailing hot and dry weather condition, summer ploughing is advised in the field to kills the eggs, larvae and pupae of soil borne insects and pests.

### **Assam**

Amount of rainfall received over Assam is 231.2 mm (-42% deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Assam is normal for week-1 and week-2.

- Due to chances of rainfall, it is advised to provide small drains at required interval to facilitate easy drainage of excess rain water and avoid water stagnation in the summer black/green gram field.
- Prevailing weather condition is also congenial for fruit rot or Anthracnose disease in the chilli crop. To manage, farmers are advised to spray Glyodin or Maneb pesticide in the recommended dose.

## **Gujarat**

Amount of rainfall received over Gujarat is 0.3 mm (-89% large deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- For the management of shoot and fruit borer in brinjal, it is advised to apply Chlorpyrifos 20 EC @ 20 ml or Cypermethrin 10 EC @ 10 ml of water.
- Under present weather hot and dry weather condition, it is advised to keep animals under shade and provide plenty of cool water mixed with minerals for drinking and also shower the animals with cold water two to three times in a day.

## **Punjab**

Amount of rainfall received over Punjab is 39.8 mm (-11% deficit) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 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.
- Due to the chances of rainfall, it is advised to wait before application of next irrigation or in absence of sufficient rainfall and rise in temperature it is advised to apply irrigation to vegetable crops at weekly intervals.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 135.5 mm (17% excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 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 hailstorms.
- Farmers are advised to maintain proper water drainage in all vegetable crops like onion, capsicum, tomatoes etc.

## **Madhya Pradesh**

Amount of rainfall received over East Madhya Pradesh is 33.1 mm (85% large excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.



- Soil and residual mulching is advised to avoid evaporation losses from the field, especially in vegetables and fruit orchard.
- Due to hot and dry weather condition, it is advised to sprinkle spray of water on the sheds of poultry and dairy houses to reduce temperature of that area and provide coolers and wet them on the doors of poultry houses to reduce heat inside the house.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 77.7 mm (154% large excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Farmers are advised for deep ploughing of the field and cover the field with polythene. This will prevent crops from soil borne diseases, weeds and insect eggs will be destroyed in the soil.
- For the management of red pumpkin beetle, it is advised to spray Imidachlopid @ 8 ml per litre.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 48.5 mm (3% excess) during 01 March 2021 - 13 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 May 2021 and 21 - 27 May 2021) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- Present weather conditions are favourable for sucking pests in papaya grown in Srikakulam, Vizianagaram, and West Godavari districts. To control, spraying of Imidachlopid @ 0.3g/litre of water is advised.
- Under prevailing weather condition, farmers are advised to take up summer deep ploughing to increase the water holding capacity of the soil and also controls the perennial weeds, pests and disease causing organisms.

### ***Disclaimer:***

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