



# **National Agromet Advisory Services Bulletin**

**Date of issue: 15 April 2023**

based on

**Extended Range Weather Forecast (ERFS)**

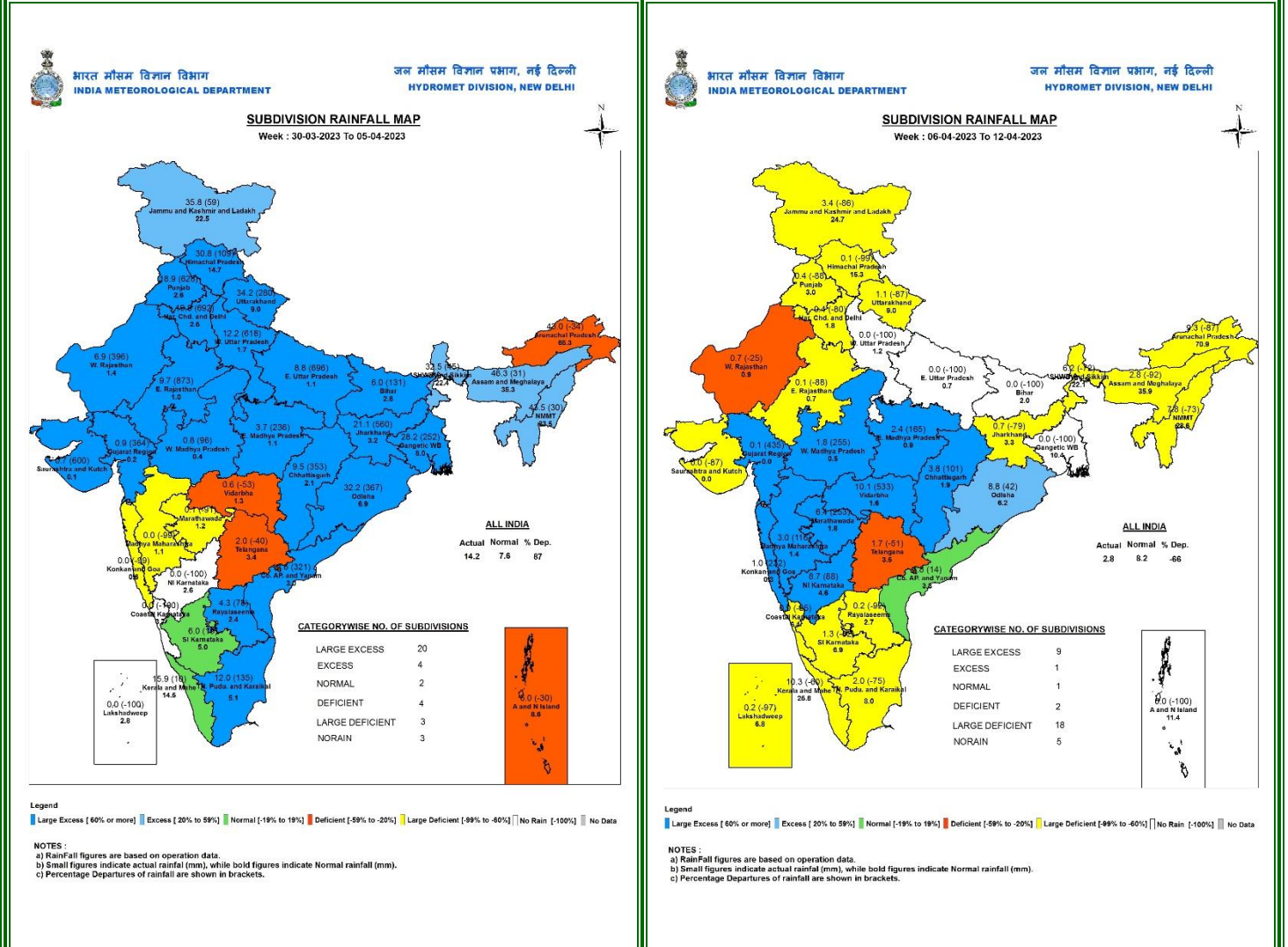
**Validity: 14 - 27 April 2023**

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**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 (30<sup>th</sup> March to 12<sup>th</sup> April 2023)



- Normal or above normal rainfall occurred in both the weeks in Gujarat Region, Madhya Pradesh, Chhattisgarh, Odisha and Coastal Andhra Pradesh & Yanam.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Rajasthan, Saurashtra & Kutch, Maharashtra, Interior Karnataka, Rayalaseema, Tamil Nadu Puducherry & Karaikal and Kerala & Mahe.
- Below Normal rainfall/no rain occurred in both the weeks over Arunachal Pradesh, Coastal Karnataka, Lakshadweep, Telangana and Andaman & Nicobar Islands.

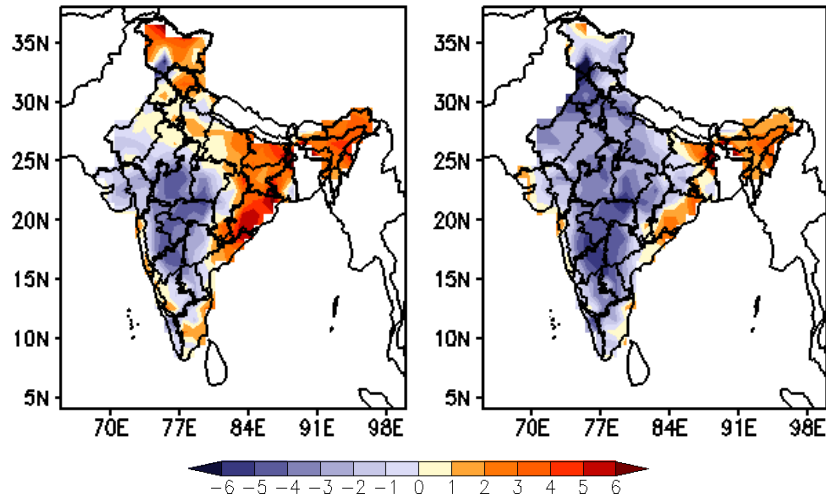


**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC- 12<sup>th</sup> April)  
(14<sup>th</sup> to 27<sup>th</sup> April 2023)**

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

(Week1: 14Apr–20Apr)

(Week2: 21Apr–27Apr)



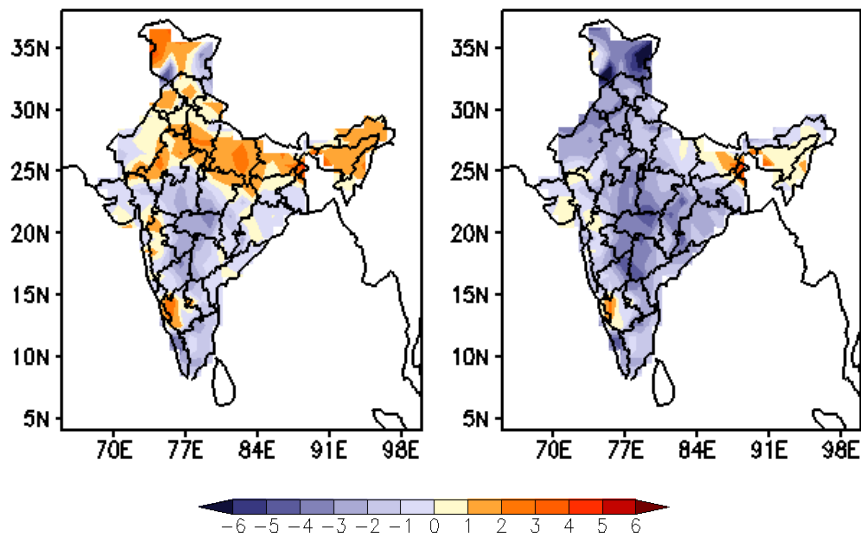
**Maximum Temperature (Tmax)**

- **Week 1 (14.04.2023 to 20.04.2023):** Tmax is likely to be above normal over many parts of the country except West-central India where it is likely to be below normal.
- **Week 2 (21.04.2023 to 27.04.2023):** Tmax is likely to be below normal over most parts of the country except parts of Bihar, eastern coastal states, north-eastern states and western India.

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

(Week1: 14Apr–20Apr)

(Week2: 21Apr–27Apr)



**Minimum Temperature (Tmin)**

- **Week 1 (14.04.2023 to 20.04.2023):** Tmin is likely to be above normal over north India, northwest India, northeast India and Indo-Gangetic plains.
- **Week 2 (21.04.2023 to 27.04.2023):** Tmin is likely to be below normal over the country.

## Agromet Advisories

### Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 27 mm (198% large excess) and over West Uttar Pradesh was 40 mm (212% large excess) during 01 March - 13 April 2023. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is below normal over East Uttar Pradesh and normal West Uttar Pradesh for week-1 and; and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### Western Uttar Pradesh

- Under prevailing weather condition, it is advised to harvest the matured wheat and barley crops under clear weather condition and keep it safe place.

#### Eastern Uttar Pradesh

- For the management of cut worms in vegetable crops like tomato/chilli/ladyfinger, it is advised to spray Profenofos @ 0.5ml/litre of water 10 cm away from the root zone at 15 days intervals during week-1.

### Haryana

54 mm (183% large excess) rainfall was received over Haryana during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Haryana is above normal for week-1 and; week-2.

- Under prevailing weather condition, farmers are advised to prepare the field and procure the recommended *desi* cotton crop with certified seeds *HD 123*, *HD 324* and *HD 432*.
- Farmers are also advised to harvest and thresh the mature crops like wheat, mustard and chickpea during the period.

### Uttarakhand

95 mm (36% excess) rainfall was received over Uttarakhand during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Uttarakhand is above normal for week-1 and; week-2.

- Farmers are advised to spread straw mulch between the rows of potato crops to conserve soil moisture .
- Under prevailing weather condition, transplanting of summer vegetables is advised and provide irrigation just after planting.

### Himachal Pradesh

93 mm (-33% deficit) rainfall received over Himachal Pradesh during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Himachal Pradesh is above normal for week-1 and; week-2.

- Under prevailing weather condition, transplanting of chilli, tomato and brinjal in lower and mid hills is advised.
- Due to unseasonal rains in Kangra district, there may be a chance of late blight incidence in potato crop. To control, it is advised to spray of Ridomil MZ or Metamil @ 2.5 g / litre of water in potato crop and repeat the spray after 15 days.

### **Bihar**

26 mm (118% large excess) rainfall received over Bihar during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Bihar is below normal for week-1 and; week-2.

- In view of dry weather forecast, farmers are advised to give top priority in the harvesting and threshing of wheat and maize.
- Taking advantage of good soil moisture, sowing of green gram (mung bean) & black gram (urd) is advised. *Pusa Vishal*, *HUM-16* and *Sona varieties* for mung bean and *Pant Urd-19* and *Pant Urd-31*, *Uttra* and *Navin* varieties of urd are recommended for sowing in North Bihar.
- Follow seed treatment practice with microbial (rhizobium) and insecticides (imidacloprid)

### **Chhattisgarh**

47 mm (267% large excess) rainfall received over Chhattisgarh during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Chhattisgarh is below normal for week-1 and; above normal for week-2.

- Due to untimely rains at isolated places in few districts of Chhattisgarh, farmers are advised to start harvesting the crops carefully and if the crop has been harvested, keep it in a safe place and make proper arrangements for drainage.

### **Madhya Pradesh**

22 mm (285% large excess) rainfall received over Madhya Pradesh during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Madhya Pradesh is below normal for week-1 and; above normal for week-2.

- As temperature is rising, farmers are advised to apply the paste of Copper oxychloride (BLITOX) along with lime to old citrus trees stem to protect from diseases.
- Due to the forecast of no rainfall during next week-1, farmers are advised to provide irrigation in sugarcane crop at weekly intervals and also tie the canes together to prevent from lodging.

## **Odisha**

89 (mm) (177% large excess) rainfall received over Odisha during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Odisha is below normal for week-1 and; above normal for week-2.

- Farmers are advised to frequently irrigate vegetable crops to avoid high temperature stress.
- Present weather conditions are congenial for blast disease in paddy. To control blast disease spray it is advised to spray Hexaconazole 5% SC @ 400 ml/acre or Azoxystrobin 18.2% + Difenoconazole 11.4 % S.C @ 200ml/acre .

## **Jammu**

The amount of rainfall received over Jammu was 115 mm (-42% deficit) during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Jammu is above normal for week-1 and; normal week-2.

- Due to chances of light rain, farmers are advised to thresh the harvested crop and shift the threshed crop to safe place immediately.
- To avoid red pumpkin beetle infestation in cucurbits, especially cucumber and bottle gourd, dusting of ash with Cypermethrin @1ml/kg on the plants at morning time during clear weather.

## **Tamil Nadu**

The amount of rainfall received over Tamil Nadu was 47 mm (38% excess) during 01 March - 13 April 2023. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is below normal for week-1 and; above normal week-2.

- Under the prevailing weather conditions, sucking pest infestation is noticed in rice during *Navarai season*. Hence, farmers are advised to spray Thiamethoxam 100 g @ per ha to control the pest load.
- Since the maximum temperature is increasing, ensure clean, cool drinking water to the dairy animals at all time and also provide quality green fodder to prevent the production loss.

## **Kerala**

51 mm (-32% deficit) received over Kerala during 01 March - 13 April 2023. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is normal for week-1 and; week-2.

- Since dry weather condition is prevailing, there is a chance of mites infestation in banana. To control it is advised to apply wettable sulphur three gram per one litre of water.

- During high temperature, there is a chance of whitefly infestation in brinjal. Apply 2% neem oil garlic emulsion or spray 20g *Lecanicillium lecanii* per one litre of water at ten days intervals.

### **Maharashtra**

9 mm (53% excess) rainfall over Madhya Maharashtra; 13 mm (27% excess) in Marathwada; 8 mm (200% large excess) in Konkan region and 26 mm (97% large excess) over Vidarbha was recorded during 01 March - 13 April 2023. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is above normal over Konkan, Madhya Maharashtra and Marathwada and Vidarbha is below normal for week -1 and; above normal over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week -2, respectively.

### *Vidarbha*

- Due to thunderstorms accompanied with lightning and gusty winds at few places of the region, farmers are advised to harvest wheat, mustard and matured vegetables during clear weather condition. Due to the possibility of sudden rainfall, keep tarpaulin ready to cover the harvested produce.
- For control of sap sucking pests of jassids, thrips and whitefly in summer sunflower, it is advised to spray of Imidacloprid 17.8 % EC @ 2.0 ml per 10 liters of water.

### *Marathwada*

- For moisture conservation and maintenance of soil temperature mulching should be done in mango orchard.
- As per forecast of isolated thunderstorm and rainfall, threshing of harvested *rabi* sorghum crop should be completed as early as possible and store the threshed grain at safe places.
- Due to increase in maximum temperature, farmers are advised not to tie or keep animals in bright sunshine. Keep them under shed or shadow. Provide cold/clean water to animals 2-3 times/day for drinking to keep them hydrated. If possible provide the animals minerals. In 5 liter of water @ 25g Jaggery, little salt (5-10 g) and 5 g of mineral mixture, as per the advice of near by veterinarian

### *Madhya Maharashtra*

- To control Fall armyworm in maize, it is advised to use Tricho-cards @ 5 numbers per ha. If outbreak is more spraying of Emamectin benzoate 5 % SG @5g or Chlorantraniliprole 18.5 % SC @5ml per 10 lit of water is recommended.

### *Konkan*

- Due to forecast of thunderstorm alongwith light rainfall and hail storm during next two weeks, farmers are advised to provide support to newly planted fruit crop orchard, papaya and banana plantation.
- Due to prevailing rainfall and forecast of light rain with cloudy weather during next two weeks, there is possibility for anthracnose disease on mango fruits. If incidence is notice,



then it is advised to spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 liters of water.

### **Anantapur**

42 mm (169% large excess) rainfall received over Rayalaseema and 78 mm (285% large excess) rainfall received over Coastal Andhra Pradesh during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is below normal over Rayalaseema and Coastal Andhra Pradesh for week-1 and; above normal for week-2.

- Prevailing weather conditions are congenial for the incidence of black thrips and white flies in chillies. Farmers are advised to install 30-35 blue and yellow colored sticky traps per acre to capture the insects and reduce their population in the field.
- Farmers are advised to periodically water spray during peak hot hours to lower the temperature and consequently reduces the heat load on animals.

### **Gujarat**

12 mm (1830% large excess) rainfall received over Gujarat during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) over Gujarat is above normal for week-1 and; week-2.

- Under prevailing weather condition, there is possibility of sucking pest infestation in okra. To control, it is advised to spray Neem based insecticides 10 ml (5 EC) to 60 ml (0.03 EC) per 10 liter water or *Verticillium lecanii* powder at evening hours at an interval of 10 days .

### **Karnataka**

15 mm (-40% deficit) rainfall received over South Interior Karnataka and 17 mm (5% excess) rainfall received over North Interior Karnataka during 01 March - 13 April 2023. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 April 2023 and 21 - 27 April 2023) is above normal over South Interior Karnataka and North Interior Karnataka for week-1 and; week-2.

#### *South Interior Karnataka*

- To control the fruit drop in mango orchard, it is advised to spray Naphthalene acetic acid (NAA) @ 20 ppm twice at an interval of 15 days during the early stage (peanut stage/marble stage) of fruit development stage.

#### *North Interior Karnataka*

- For the management of leaf miner in groundnut crop, it is advised to spraying of Deltamethrin 2.80 % EC @ 1ml/litre. Similarly manage hairy caterpillar in sunflower by spraying Cypermethrin 10 % EC @ 1ml/liter of water.

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