



National Agromet Advisory Services Bulletin

Date of issue: 17 March 2023

based on

Extended Range Weather Forecast (ERFS)

Validity: 17 - 30 March 2023

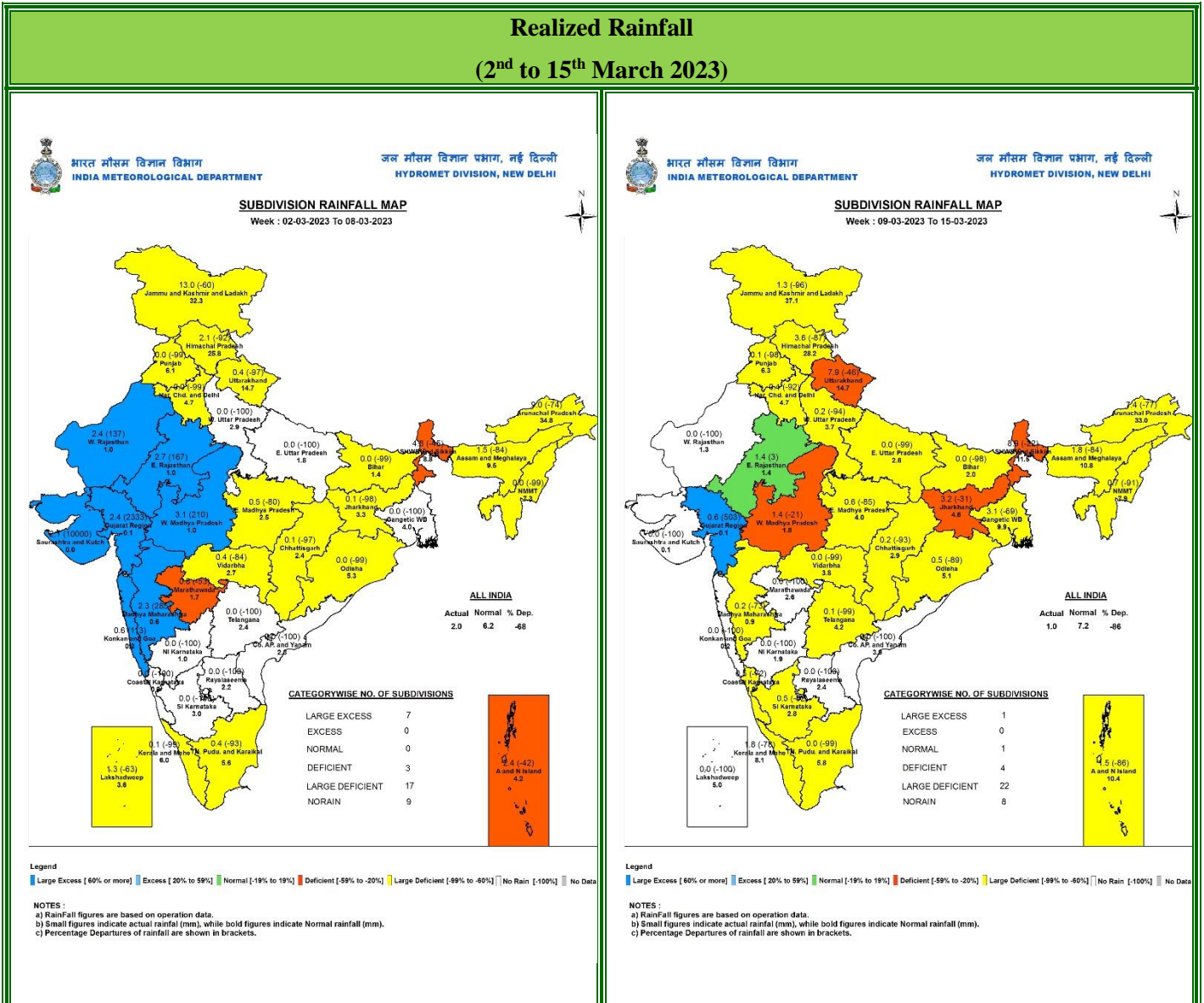
Issued by

**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

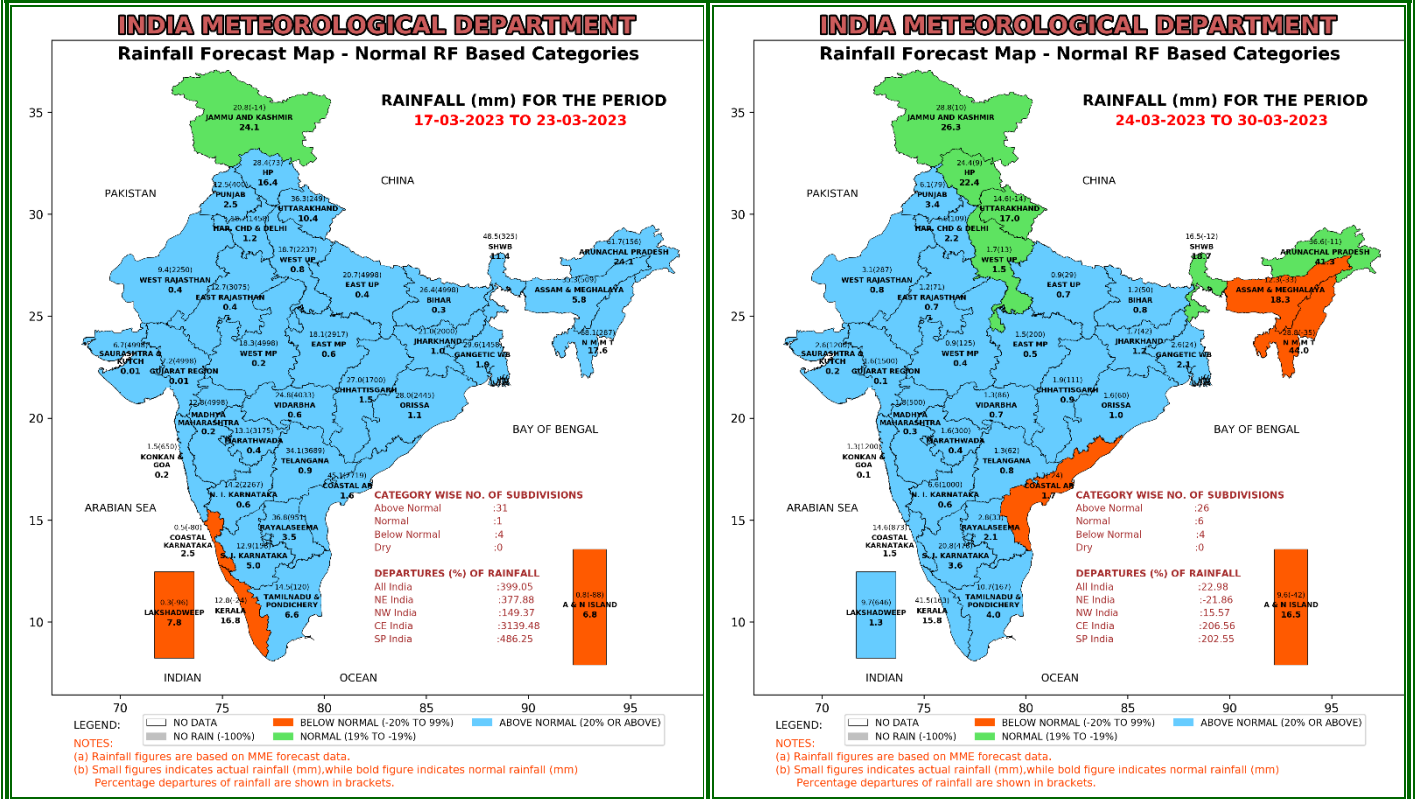
(2nd to 15th March 2023)



- Normal or above normal rainfall occurred in both the weeks in Gujarat Region and East Rajasthan.
- Normal or above normal rainfall occurred in either of the two weeks in East Rajasthan, West Madhya Pradesh, Saurashtra & Kutch, Konkan & Goa and Madhya Maharashtra.
- 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- 15th March) (17th to 30th March 2023)



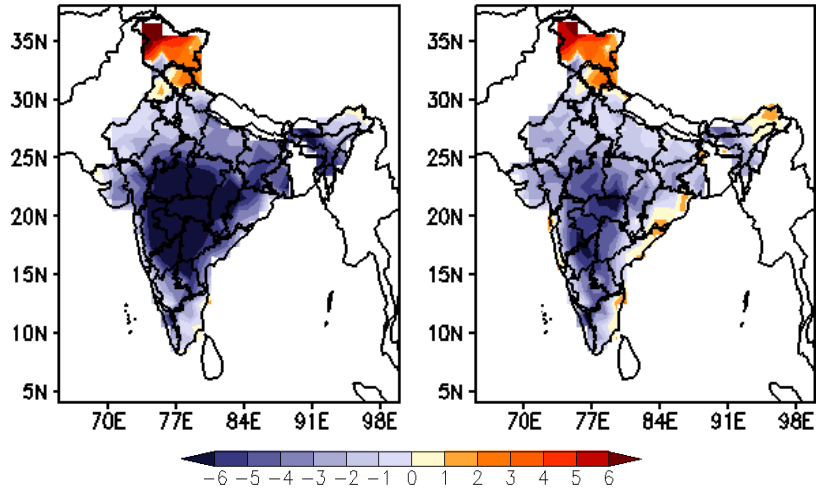
- **Week 1 (17.03.2023 to 23.03.2023):** Rainfall activity associated with Western Disturbance is likely over most parts of the country.
- **Week 2 (24.03.2023 to 30.03.2023):** Rainfall activity associated with Western Disturbance is likely over extreme north India and rainfall associated with convective activity is likely over Northeast India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 15th March)
(17th to 30th March 2023)**

MME forecast Tmax anomaly (Deg C)

(Week1: 17Mar–23Mar)

(Week2: 24Mar–30Mar)



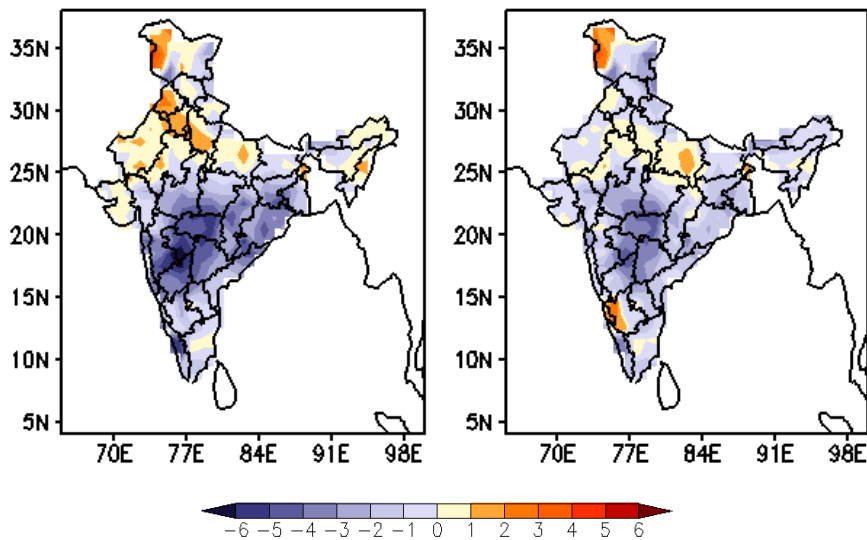
Maximum Temperature (Tmax)

- **Week 1 (17.03.2023 to 23.03.2023) and Week 2 (24.03.2023 to 30.03.2023):** Tmax is likely to be below normal over most parts of the country except extreme north India.

MME forecast Tmin anomaly (Deg C)

(Week1: 17Mar–23Mar)

(Week2: 24Mar–30Mar)



Minimum Temperature (Tmin)

- **Week 1 (17.03.2023 to 23.03.2023):** Tmin is likely to be above normal over parts of northwest India and below normal over central India.
- **Week 2 (24.03.2023 to 30.03.2023):** Tmin is likely to be normal to slightly below normal over most parts of the country.

Strategic Agricultural Planning based on rainfall till 30 March 2023

Agromet Advisories

Punjab

2.3 mm (-84% large deficit) rainfall received over Punjab during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Punjab is above normal for week-1 and; week-2.

- Due to possibility of light to moderate rainfall during next two week, farmers are advised to avoid irrigation in field crops.
- Prevailing weather is optimum for direct sowing of okra and cowpea and cucurbits like muskmelon, cucumber, bitter gourd, bottle gourd, pumpkin, sponge gourd, squashes etc.

Haryana

0.5 mm (-95% large deficit) rainfall received over Haryana during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Haryana is above normal for week-1 and; week-2.

- Due to possibility rainfall in coming next two weeks, farmers are advised to withhold irrigation and pesticides operation in wheat crop and stop harvesting of mustard.
- Farmers are advised to provide each cattle/animal 50 grams iodized salt and 50 to 100 grams mineral mixture daily with feed & green fodder/Berseem to keep them healthy.

Uttarakhand

9.6 mm (-71% large deficit) rainfall received over Uttarakhand during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Uttarakhand is above normal for week-1 and; normal for week-2.

- There is a forecast of light rainfall/thunderstorm during next two weeks. Farmers are advised to withhold irrigation and use anti-hail nets to cover the high value crops to reduce hail damage.
- Under prevailing rainy weather, farmers are advised to immediately remove any hail damaged leaves in onion. Application of additional nitrogen is recommended after the storm event to encourage new growth.
- Keep the all poultry birds inside the shelter during hailstorm. Maintain optimum temperature inside poultry shed.

Bihar

0.1 mm (-99% large deficit) rainfall received over Bihar during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Bihar is above normal for week-1 and; week-2.

- Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables, which are in seedling stage. To control, farmers are advised for dusting of Chlorpyrifos 2% dust @ 20

kg/ha near root of the plant and in severe cases, spraying of Dichlorvos76 EC @1 ml/liter of water is advised.

Jharkhand

3.2 mm (-65% large deficit) rainfall received over Jharkhand during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Jharkhand is above normal for week-1 and; week-2.

- For the management of red pumpkin beetle in cucurbits, it is advised for the application of Phorate 10 G@ 1 g per pit during transplanting.

Assam

12 mm (-49% deficit) rainfall received over Assam was during 01 - 16 March 2023. The extended range weather forecast (rainfall) for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is above normal for week-1 and; below normal for week-2.

- Due to the congenial weather condition, fruit rot or anthracnose disease may be observed in the chilli plantations. If observed, the immediately spray Captan 50 WP 0.2% or Dofolatan 0.2% @ 2 g/litre of water, under fair weather, to effectively control the disease.
- For protection against infectious Brusel disease (Gumboro), vaccinate 12-14 days old poultry birds

Chhattisgarh

0.4 mm (-94% large deficit) rainfall received over Chhattisgarh during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Chhattisgarh is above normal for week-1 and; week-2.

- Keeping in view of possibility of light rains in the next two weeks, farmers are advised to harvest the wheat crop. If the crop has already been harvested, keep it in a safe place.

Madhya Pradesh

1.3 mm (-84% large deficit) rainfall received over Madhya Pradesh during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Madhya Pradesh is above normal for week-1 and; week-2.

- Farmers are advised to start harvesting the wheat crop, keeping in view the possibility of light rains in the coming days. If the crop has been harvested, keep it in a safe place.
- Keeping in view of the possibility of light rains in the next two days, there is a possibility of aphid outbreak in summer vegetable crops. Therefore, it is advised to keep a constant watch and spray neem-based insecticides on observation of the initial outbreak.

Odisha

0.6 (mm) (-95% large deficit) rainfall received over Odisha during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Odisha is above normal for week-1 and; week-2.

- Due to chances of rainfall in next two week, farmers are advised to withhold the sowing, spraying and irrigation activities for some days.

Jammu

The amount of rainfall received over Jammu was 17 mm (-78% large deficit) during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Jammu is normal for week-1 and; week-2.

- Prevailing weather is congenial for yellow rust infestation in wheat crop. If observed, it is advised to apply prophylactic spray of Propiconazole (Tilt) 25 EC 0.1 % @ 1ml/ litre of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 1.6 mm (-87% large deficit) during 01 - 16 March 2023. The extended range weather forecast (rainfall) for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is above normal for week-1 and; week-2.

- Prevailing weather condition is favorable for gram caterpillar and anthracnose incidence in chilli crop. For the management, it is advised to spray Carbaryl 50 WP 2 g/litre or *B. thuringiensis* 2 g/litre.

Kerala

6.1 mm (-63% large deficit) received over Kerala during 01 - 16 March 2023. The extended range weather forecast (rainfall) for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is below normal for week-1 and; above normal for week-2.

- During high temperature, there is a chance of thrips in paddy. To protect, it is advised to apply Thiamethoxam @ 2 g per 10 litres of water.
- Since dry weather condition is prevailing, it is advised to irrigate coconut palm as per requirement during week-1. It is a desirable practice to bury fresh or dried coconut husk in the coconut basin to conserve soil moisture and also apply lime on the coconut stem near the ground to protect from hot sun.

Maharashtra

3.6 mm (88% large excess) rainfall over Madhya Maharashtra; 0.9 mm (-82% large deficit) in Marathwada; 0.7 mm (-15% deficit) in Konkan region and 0.7 mm (-90% large deficit) over Vidarbha was recorded during 01 - 16 March 2023. The extended range weather forecast (rainfall) for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is above normal over Konkan, Marathwada, Madhya Maharashtra and Vidarbha for week -1 and; week -2, respectively.

Vidarbha

- In view of forecast of rainfall at isolated places during next two weeks, immediately harvest the wheat and chickpea crops, which are at physiological maturity and keep harvested produce safely. Keep a tarpaulin ready to cover harvested produce, in the event of rainfall.
- Provide mechanical support to newly planted/ young fruit plants to prevent from logging during gusty windy weather.
- Ensure protection of farm animals and keep them indoors during thunderstorm/lightning/hailstorm.

Marathwada

- Due to the forecast of light to moderate rain along with thundershower at isolated places, farmers are advised to harvest mature crops and fruits like chickpea, *rabi* sorghum, safflower, wheat, summer sesamum, turmeric, citrus, grapes etc.

Madhya Maharashtra

- For control of fruit drop in mango orchards, spraying of 20 ppm Planofix is advised. And also spraying of Karathane @ 5 ml per 10 litre of water is advised for the control of fungal diseases in mango.

Karnataka

0.9 mm (-73% large deficit) rainfall over Coastal Karnataka; 1.2 mm (-64% large deficit) in North Karnataka; 2.0 mm (-71% large deficit) in South Karnataka was recorded during 01 - 16 March 2023. The extended range weather forecast (rainfall) for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is below normal over Coastal Karnataka, above normal South Interior Karnataka and North Interior Karnataka for week-1 and; above normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-2.

South Interior Karnataka

- Due to continuous dry spell, the termite infestation is common in horticulture, forest tree and shrubs. Hence, to control, it is advised to apply Aldrin termiticides.
- To protect the pulse grains from storage pests apply oils of castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.

Anantapur

No rainfall received over Rayalaseema and 0.2 mm (-96% large deficit) rainfall received over Coastal Andhra Pradesh during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) is above normal over Rayalaseema and Coastal Andhra Pradesh for week-1 and; below normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week-2.

- Prevailing weather conditions are favourable for the incidence of leaf miner in groundnut grown in Ananthapuramu, Kurnool, Kadapa, Chittoor, Tirupati, Nandyal and Prakasam districts. Farmers are advised to spray Quinalphos @ 2.0 ml or Monocrotophos @ 1.0 g or Imidachloprid @ 0.3 ml or Acephate @ 1.5 g /litre of water.

Gujarat

3.5 mm (1635% large excess) rainfall received over Gujarat during 01 - 16 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (17 - 23 March 2023 and 24 - 30 March 2023) over Gujarat is above normal for week-1 and; week-2.

- To prevent damage of psylla & thrips in lemon plantation, it is advised to spray Imidacloprid 30.5 % 5 ml /10 litres of water under clear weather condition.

Disclaimer:

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