



National Agromet Advisory Services Bulletin

Date of issue: 03 March 2023

based on

Extended Range Weather Forecast (ERFS)

Validity: 03 - 16 March 2023

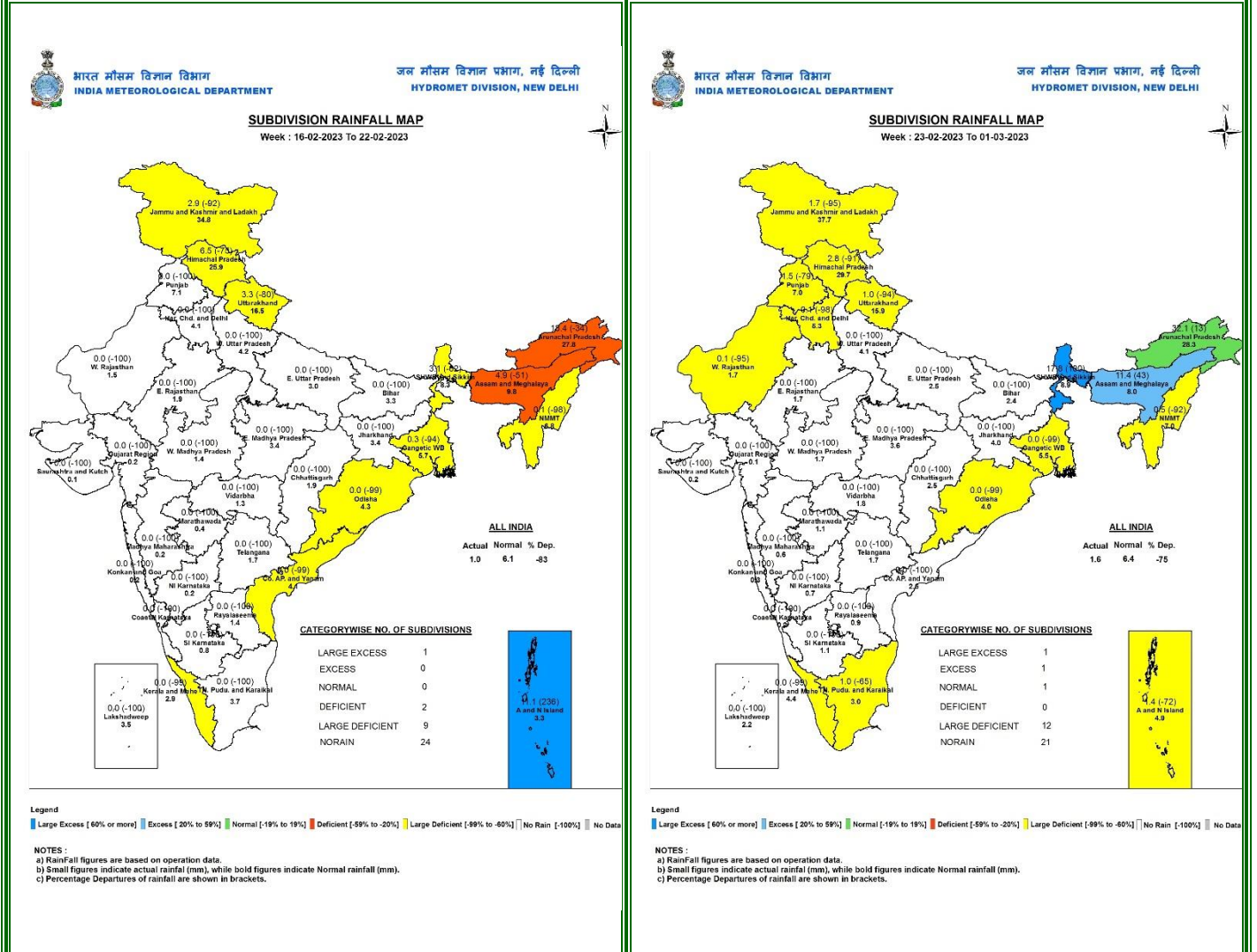
Issued by

**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

(16th February to 1st March 2023)

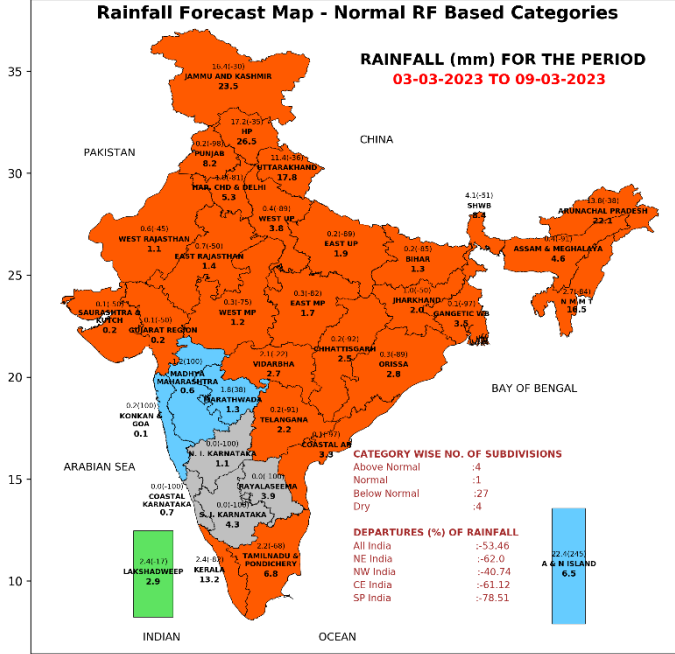


- Normal or above normal rainfall occurred in either of the two weeks in Sub-Himalayan West Bengal, Assam & Meghalaya, Arunachal Pradesh and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

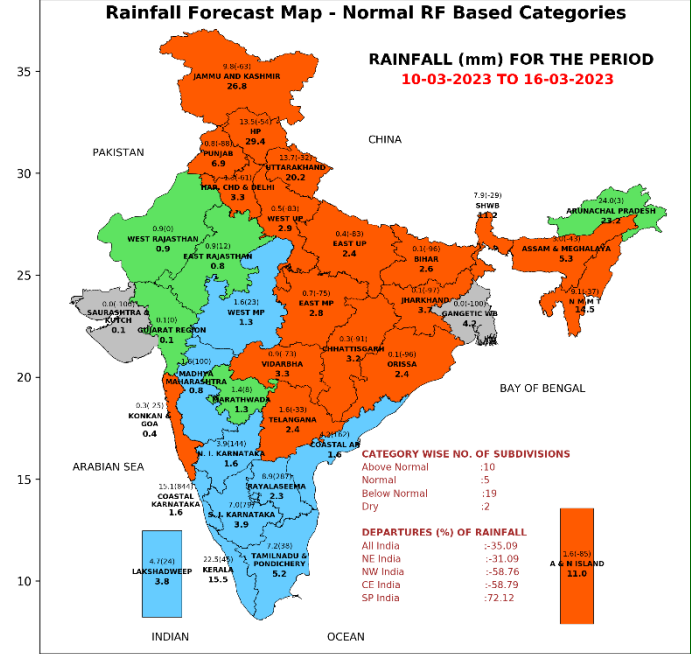
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 1st March) (3rd to 16th March 2023)

INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



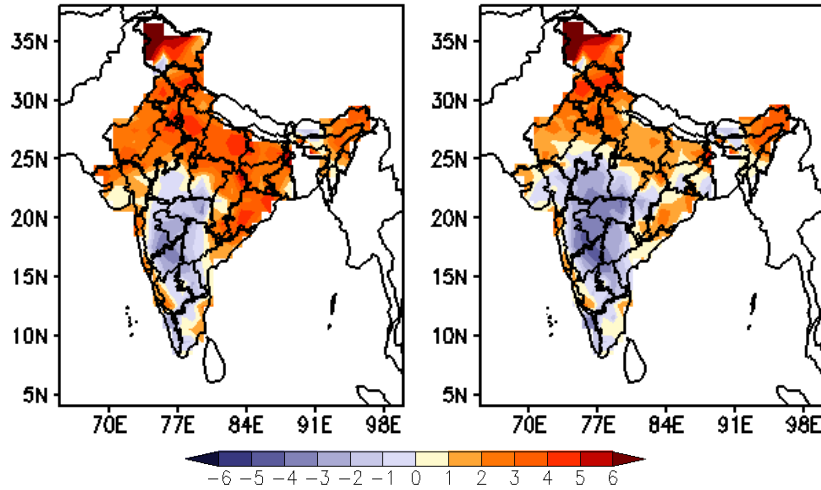
- **Week 1 (03.03.2023 to 09.03.2023) and Week 2 (10.03.2023 to 16.03.2023):** Rainfall activity associated with Western Disturbances is likely over extreme north India and parts of Northeast India in week 1 and week 2. Rainfall is likely to be above normal over south peninsula in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 1st March)
(3rd to 16th March 2023)**

MME forecast Tmax anomaly (Deg C)

(Week1: 03Mar-09Mar)

(Week2: 10Mar-16Mar)



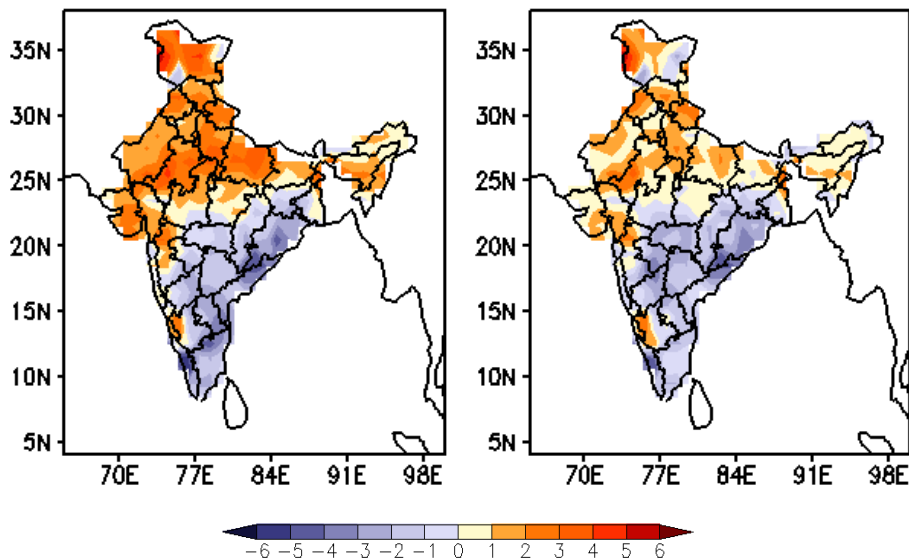
Maximum Temperature (Tmax)

- **Week 1 (03.03.2023 to 09.03.2023) and Week 2 (10.03.2023 to 16.03.2023):** Tmax is likely to be above normal over most parts of north and northwestern India, adjoining central India and eastern coastal states.

MME forecast Tmin anomaly (Deg C)

(Week1: 03Mar-09Mar)

(Week2: 10Mar-16Mar)



Minimum Temperature (Tmin)

- **Week 1 (03.03.2023 to 09.03.2023):** Tmin is likely to be above normal over northern and northwest India and below normal over east coast and adjoining southern peninsula.
- **Week 2 (10.03.2023 to 16.03.2023):** Tmin is likely to be slightly above normal over northwest India and below normal over central and southern peninsula.

Agromet Advisories

Uttar Pradesh

No rainfall was received over East Uttar Pradesh and West Uttar Pradesh during 01 - 02 March 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is below normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; week-2.

Western Uttar Pradesh

- During last week, the average weekly maximum temperature was 4 °C higher than normal. As weather will remain dry during this week, farmers are advised to irrigate wheat crop. Light irrigation should be taken up at anthesis and milk stages, which are the critical stages of wheat.
- Due to above normal temperature prevailed during second fortnight of February, farmers are advised to provide irrigation to barley (milk stage) and chickpea (pod formation stage).

Eastern Uttar Pradesh

- Keeping increasing temperature in view, farmers are advised for light irrigation in standing wheat crop and vegetables as per requirement.
- Under prevailing weather condition, farmers are advised to start field preparation for early sowing of okra with recommended varieties like A-4, Parbani Kranti, Arka Anamika etc.

Punjab

1.5 mm (-33% deficit) rainfall received over Punjab during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Punjab is below normal for week-1 and; week-2.

- To save the crops from heat stress due to the forecast of increase in temperature than normal, farmers are advised to apply light irrigation to the standing crop and apply two sprays of 2% Potassium nitrate (13:0:45) by dissolving 4 kg potassium nitrate in 200 litres of water at boot leaf and anthesis stages of wheat crop.

Rajasthan

0.1 mm (-92% large deficit) rainfall received over East Rajasthan during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over East Rajasthan is below normal for week-1 and; normal for week-2.

- At present, timely sown wheat is at milk stage. Therefore, it is advised to provide irrigation to wheat crop.
- Under present weather conditions, transplanting of young seedlings of tomato, chilli and cole crop is advised to complete in this week.
- Keeping increasing temperature in view, farmers are advised for light irrigation in standing crops and vegetables as per requirement.

Haryana

0.1 mm (-96% large deficit) rainfall received over Haryana during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Haryana is below normal for week-1 and; week-2.

- Due to possibility of dry and clear weather, Farmers are advised to apply need based irrigation and agrochemicals in *rabi* crops.

Uttarakhand

0.1 mm (-98% large deficit) rainfall received over Uttarakhand during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Uttarakhand is below normal for week-1 and; week-2.

- Under prevailing weather condition, famrers are advised to continue the sowing of potato in high altitude areas of the state. And use mulch materials (dry grass and leaves) between the rows for soil moisture conservation.
- Due to the prevailing dry weather, farmers are advised to continue the sowing of summer vegetables like tomato, capsicum, pumpkin, cucumber, okra etc.

Bihar

No rainfall received over Bihar during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Bihar is below normal for week-1 and; week-2.

- In view of dry weather, farmers are advised to dig out potato tubers from the field.
- Land preparation is advised for sowing of green gram (Mung bean) & black gram (Urd). *Pusa Vishal, Samrat, SML-668, Sona, HUM-16* varieties for mung bean and *Pant Urd-19, Pant Urd-31, Uttra* and *Navin* varieties for urd are recommended for sowing in North Bihar.

Jharkhand

No rainfall received over Jharkhand during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Jharkhand is below normal for week-1 and; week-2.

- Protect banana bunches from rising temperature by wrapping them in polythene bags.
- Keeping in view the possibility of rise in temperature, it is advised to apply light irrigation to crops and vegetables as per requirement.

Assam

No rainfall received over Assam was during 01 - 02 March 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is below normal for week-1 and; week-2.

- Since deficit to large deficit in rainfall was received in most districts of Assam, a standing water of 5±2 cm depth in the *boro* rice is advised to maintain optimum crop growing environment.
- Under prevailing dry period (December- March), irrigation is advised in coconut orchard at 15 days interval to reduce the immature nut fall from the bunch.
- Due to favourable weather, attack of caterpillars and other leaf eaters may be observed in cauliflower fields. To control, it is advised to spray Chlorantraniliprole 18.5 SC @ 0.4 ml/litre of water under clearweather condition.

Chhattisgarh

No rainfall received over Chhattisgarh during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Chhattisgarh is below normal for week-1 and; week-2.

- Due to high temperature, evaporation rate is increased. Therefore, irrigation is advised in summer vegetables.
- Considering the present weather conditions, farmers are advised for sowing of cucurbitaceous crops in the bags. Sowing of leafy vegetables and land preparation for the summer vegetables is also advised.

Odisha

No rainfall received over Odisha during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Odisha is below normal for week-1 and; week-2.

- Keeping in view of rise in temperature, farmers are advised to provide light irrigation in banana plantation.
- February-March is the ideal time for sowing of cowpea, cluster bean, pumpkin, cucumber and watermelon.
- Increase in temperature may enhance red hairy caterpillar and tobacco caterpillar infestation in groundnut. To control, it is advised to spray Pronephros 50% EC @ 400 ml/200 litre of water or Flubendiamide 480 SC @ 40 ml/200 litre of water.

Jammu

The amount of rainfall received over Jammu was 3.3 mm (-64% large deficit) during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Jammu is below normal for week-1 and; week-2.

- Farmers are advised to monitor zinc deficiency in mustard crop. If yellow patches develop between the mid-vein and edge of young to middle leaves, it is advised to spray Zinc sulphate @ 0.2%.
- Prevailing weather is congenial for wilt and blight disease in rabi pulses. If observed, it is advised to apply Bavistin/Carbendazim @ 3g/litre of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 1.1 mm (42% excess) during 01 - 02 March 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is below normal for week-1 and; above normal for week-2.

- Prevailing weather conditions are congenial for rice blast incidence in rice crop. For the management, it is advised to spray Carbendazim or Tricyclazole at 2 g/litre of water for 1 kg of seed.

Kerala

No rainfall received over Kerala during 01 - 02 March 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is below normal for week-1 and; above normal for week-2.

- Due to the increase in temperature, there may be the chances of sucking pests infestation on vegetable crops. To control, it is advised to spray *Leccanicilium leccani* 20 g per litre at weekly intervals at the initial stage of infestation.
- Since dry and hot weather condition is prevailing, farmers are advised to provide irrigation in banana and coconut orchard as per requirement and mulching is also advised to conserve soil moisture.

Maharashtra

No rainfall over Madhya Maharashtra, Konkan region, Vidarbha and Marathwada observed during 01 - 02 March 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is above normal over Konkan, Madhya Maharashtra, Marathwada and below normal over Vidarbha for week -1 and; below normal over Konkan and Vidarbha, normal over Marathwada and above normal over Madhya Maharashtra for week -2, respectively.

Vidarbha

- Due to prevailing dry and hot weather conditions, farmers are advised to ensure irrigation at dough stage in timely sown wheat and at milk stage in late sown wheat.
- Farmers are advised to complete the sowing of summer green gram (var. *Pusa Vaishakhi*, *PKV-AKM-4* (Vaibhav)) preferably by second week of February. Under assured irrigation facility during peak summer months, sowing can be extended till 15 March.

Marathwada

- Due to increase in temperature, irrigation management is advised in banana orchard as per requirement, provide shed to protect newly planted orchard from sunrays and soil mulching is also advised for moisture conservation and maintenance of soil temperature in banana orchard.
- For the management of aphids in safflower crop, it is advised to spray Dimethoate 30% @ 13 ml or Acephate 75% @ 10 gram per 10 litres of water.

Konkan

- Due to increase in temperature, there is a possibility of wild fires in fruit orchard. To protect the mango, cashewnut fruit crop orchard from fire, it is advised to prepare fire breaks in the orchards.
- Due to rise in temperature, farmers are advised to maintain optimum water level of 5 cm in summer rice field.

Madhya Maharashtra

- Mulching is advised to reduce the evaporation from soil in orchard crops.

Karnataka

No rainfall was received during 01 - 02 March 2023 over Coastal Karnataka, South Interior Karnataka and North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is no rainfall over Coastal Karnataka and 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 in January, the termite infestation is common in horticulture, forest tree and shrubs. Hence, to control, it is advised to apply Aldrin termiticides.
- Under prevailing weather condition, it is advised to provide irrigation in mango orchard (marble stage), for the better development of fruits.

Anantapur

No rainfall received over Coastal Andhra Pradesh and Rayalaseema during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) is no rainfall over Rayalaseema and below normal over Coastal Andhra Pradesh for week-1 and; above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- In Srikakulam, Visakhapatnam, East Godavari and Guntur districts, present weather conditions are favourable for sucking pest incidence in blackgram. To control the sucking pests, spraying of Neem oil @ 5.0 ml or Monocrotophos @ 1.6 ml/litre of water is recommended.

Gujarat

No rainfall received over Gujarat during 01 - 02 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 March 2023 and 10 - 16 March 2023) over Gujarat is below normal for week-1 and; normal for week-2.

- For the management of tea mosquito bug in cashew orchard, it is advised to spray *Beauveria bassiana* @ 60 g/10 liters of water.

Disclaimer:

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