



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 11 - 24 March 2022

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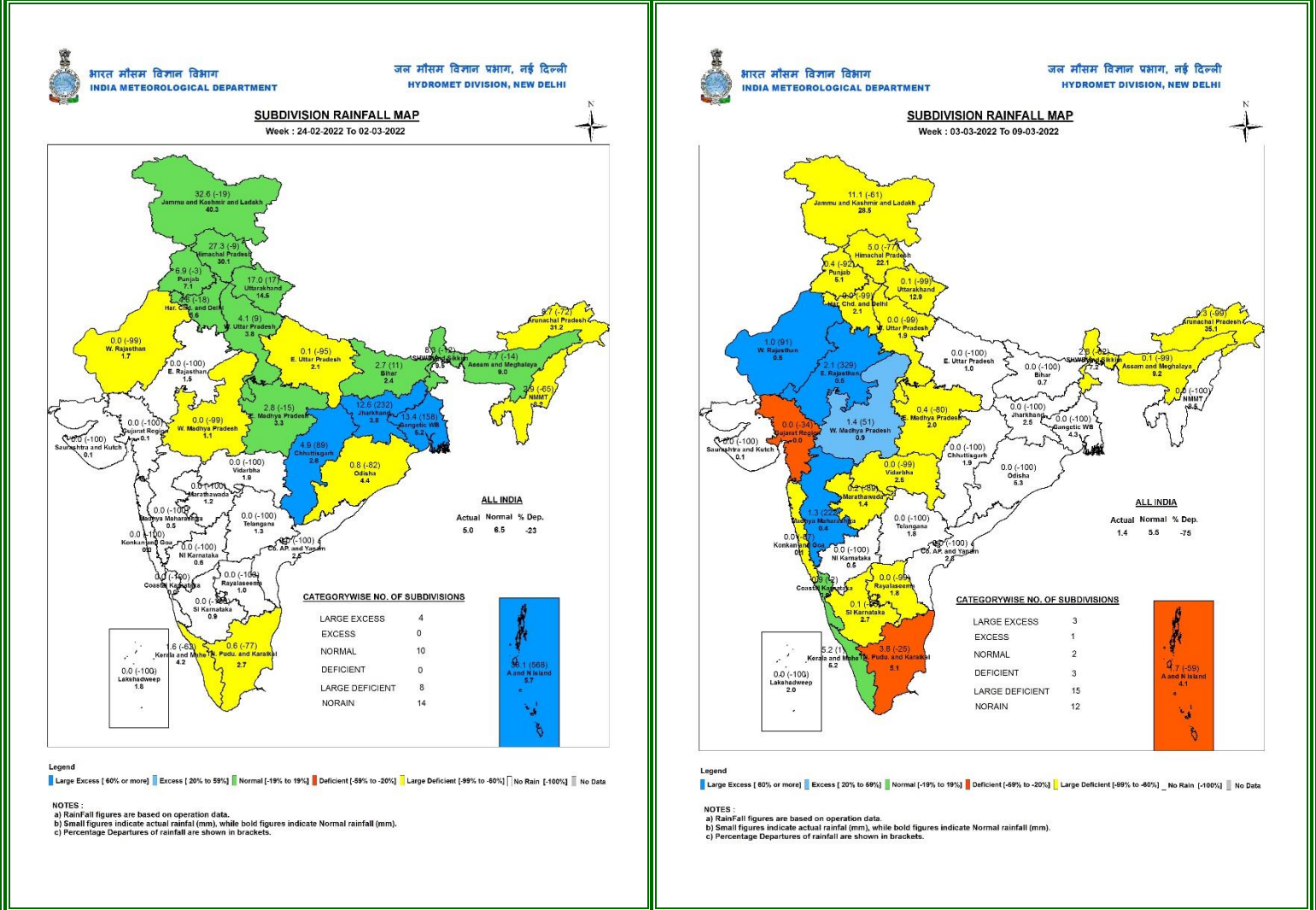
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (24th Feb. to 9th March, 2022)



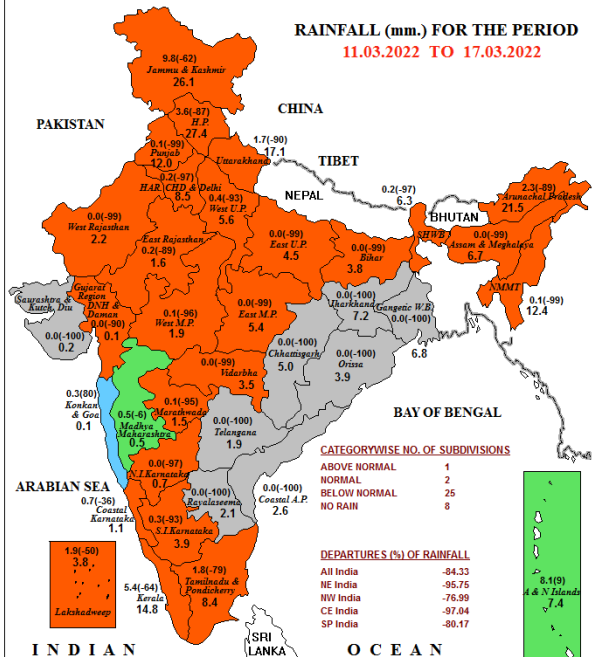
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Rajasthan, Punjab, Haryana Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Bihar, Jharkhand, Assam & Meghalaya, East Madhya Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Coastal Karnataka, Kerala & Mahe 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 – 09 March) (11th to 24th March, 2022)

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Rainfall Forecast Map - Normal RF Based Categories

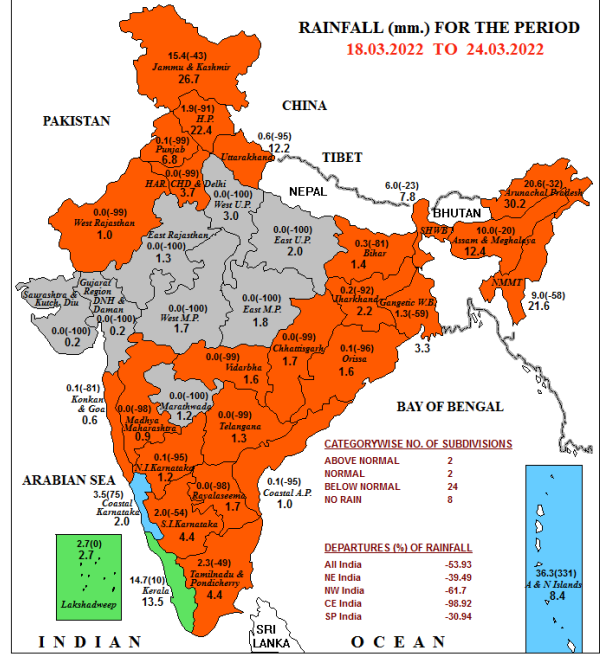


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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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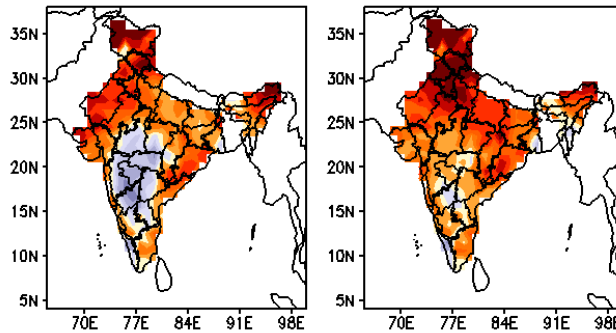
- **Week 1 (11.03.2022 to 17.03.2022) and Week 2 (18.03.2022 to 24.03.2022):** (i) Western Disturbance will have an impact over north India in week 1 and also in week 2. (ii) Presence of cyclonic system over the eastern coastal region of Tamil Nadu, Sri Lanka and Neighbourhood in week 1. The southern part of Bay of Bengal will remain active in week 2 also.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 09 March)
(11th to 24th March, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 11Mar–17Mar)

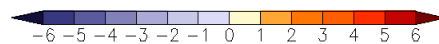
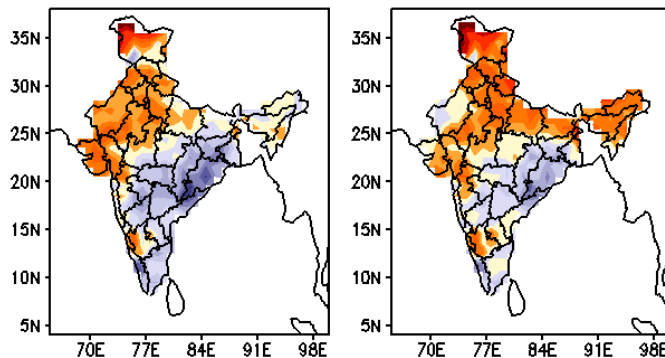
(Week2: 18Mar–24Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 11Mar–17Mar)

(Week2: 18Mar–24Mar)



Maximum Temperature (Tmax)

- **Week 1 (11.03.2022 to 17.03.2022):** Slight below normal Tmax likely over parts of central India in week 1, whereas, above normal Tmax is likely over northwest India, northeastern India and parts of eastern coastal states of India (Odisha, Chhattisgarh and adjoining region).
- **Week 2 (18.03.2022 to 24.03.2022):** Tmax is expected to increase in week 2 onwards with higher positive anomaly over northwest India, northeastern India and parts of eastern coastal states of India like (Odisha, Chhattisgarh and adjoining region). Most of the remaining parts of India also likely to be with positive Tmax anomalies.

Minimum Temperature (Tmin)

- **Week 1 (11.03.2022 to 17.03.2022) and Week 2 (18.03.2022 to 24.03.2022):** East central and south eastern parts of India will have negative Tmin anomalies with a slightly larger negative anomaly expected over east central parts of India covering Odisha, Chhattisgarh adjoining region in week-1 and week-2. However, northern and north western, northeast India will have positive Tmin anomalies during week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 24 March 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 5.4 mm (-20% deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) is below normal for week-1 and normal for week-2.

- Since dry weather condition is prevailing due to increase in temperature, it is advised to irrigate coconut and arecanut @ 40 to 50 litres water per coconut palm and 25 litres water per areca palm. It is also advised to bury fresh or dried coconut husk around the coconut palm to conserve soil moisture.
- For the management of blast disease in rice, it is advised to spray 4 g of Nativo (Trifloxystrobin + Tebuconazole) mixture in 10 litres of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 3.8 mm (-40% deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) is below normal for week-1 and week-2.

- Prevailing weather conditions are congenial for sucking insects viz., thrips, aphids and hoppers incidence in chilli. To control, it is advised for basal application of FYM @ 25 t/ha with 250 kg/ha of neem cake.
- Under prevailing weather condition, it is advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

Rainfall received over Madhya Maharashtra is 1.4 mm (93% large excess); Marathwada is 0.6 mm (-75% large deficit); no rainfall over Vidarbha and Konkan region observed during 01 - 10 March 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Konkan is above normal, normal over Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; over Konkan, Madhya Maharashtra and Vidarbha is below normal rainfall and no rainfall over Marathwada for week-2.

Vidarbha

- Due to rise in temperature and decrease in humidity, there is a chance of pre-mature fruit drop in mango. To minimize, it is advised to spray 1% Potassium nitrate on pea sized mango fruits.
- With assured irrigation facility during peak summer months, sowing of summer green gram (Pusa Vaishakhi, PKV-AKM-4 (Vaibhav)) can be continued till 15 March.

Madhya Maharashtra

- For the control of thrips and powdery mildew in mango, it is advised to spray Imidacloprid @ 1 ml + wettable sulphur @ 2 g per litre of water.

- Under prevailing weather condition, harvesting of sorghum is advised after proper drying of leaves and maintain moisture content in grain about 15%.

Hisar

Amount of rainfall received over Hisar is 0.2 mm (-97% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to keep on vigilance for insect/pests in sugarcane and apply need-based irrigation to the crop.
- Due to fall in night temperature, high winds and cloudy conditions, it is advised to keep the animals under shed and provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.

Karnataka

Rainfall received during 01 - 10 March 2022 over South Interior Karnataka is 0.1 mm (-96 % large deficit) and no rainfall was received over North Interior Karnataka. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

South Interior Karnataka

- Due to continuous dry spell in January and February months, termite attack is common in horticulture crops, forestry tree and shrubs. To control it is advised to apply Aldrin termiticide.
- To protect the pulse grains from storage pests, it is advised to apply oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains.

Uttar Pradesh

No rainfall was received during 01 - 10 March 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the dry weather condition, farmers are advised to maintain the moisture in their standing crops and pick up mature fruits in standing crops.
- Under prevailing weather condition, sowing of *Zaid* maize is advised. Recommended composite varieties are *Novjoti*, *Pusa-2*, *Sweta* and *Azad uttam* and hybrid varieties viz., *Hybrid Dakan-107*, *Malviya hybrid-2*, *JH-3459*, *Prakash*, *PSM-5*, *Pro-303*, *KH-510*, *MMH-113*, *Azad hybrid-1*, *Azad hybrid-2*, *DKC-9108*, *DKC-7074*.

Eastern Uttar Pradesh

- Due to rise in temperature, farmers are advised to prepare the field for early sowing of lady finger with recommended varieties like *A-4, Parbani kranti, Arka Anamika, Narendra perennial-1, P-7* etc.
- In view of dry weather and rising temperature, it is advised to sow cucurbitaceous vegetables like bottle gourd, pumpkin, musk melon, water melon, etc.

Jammu

Amount of rainfall received over Jammu is 13 mm (-68% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Jammu is below normal for week-1 and week-2.

- For the management of aphid infestation in mustard, it is advised to install yellow sticky trap @ 5/kanal and in severe attack spray Imidacloprid @ 0.3ml/litre of water in the evening to protect pollination.
- Under prevailing weather condition, farmers are advised for transplanting of tomato/brinjal/chillies from nursery to main field.

Assam

Amount of rainfall received over Assam is 0.7 mm (-95% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Assam is below normal for week-1 and week-2.

- Present weather condition is congenial for sowing the seeds of transplanted autumn rice (*ahu*) in nursery bed. Recommended varieties for transplanted upland rice (*ahu*) like Luit, Kapilee, Govind, Jaya, IR-50, etc.
- Under prevailing weather condition, farmers are advised to continue the land preparation for cultivation of green gram and black gram. To obtain higher yield, select recommended varieties like K 851, Pratap (SG-1) etc. for green gram and Pant U-19, SBC-40 etc. for black gram cultivation.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 0.5 mm (-86% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Chhattisgarh is no rainfall for week-1 and below normal for week-2.

- Due to increase in temperature and in evaporation rate, it is advised to irrigate summer vegetable crops.
- Under prevailing weather condition, farmers are advised to complete the harvesting of pulses

and oilseed crops quickly. The seeds of pulse crops for storage should have 8-10% moisture.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 5.1 mm (-84% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- With the increase in temperature, the farmers of lower hill areas are advised to go for the sowing of lady finger and French bean. The recommended varieties of lady finger are Palam Komal, P-8, Arka Anamika and Varsha Uphar and of French bean are Contender, Premier, Palam Mridula, Phalguni and Arka Komal.
- Under prevailing weather condition, transplanting of cucumber and capsicum can be done in the polyhouses of the lower areas of the state.

West Bengal

No rainfall was received during 01 - 10 March 2022 over Gangetic West Bengal and Sub-Himalayan West Bengal received 3.9 mm (62% large excess). The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Gangetic West Bengal is no rainfall and below normal over Sub-Himalayan West Bengal for week-1 and; below normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- For preventing late blight in potato, spraying of Mancozeb or Chlorothalonil or Copper Oxychloride is recommended.

Punjab

Amount of rainfall received over Punjab is 0.4 mm (-87% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Punjab is below normal for week-1 and week-2.

- To protect the new flush of fruit plants, especially citrus plants, from infestation of sucking pests, it is advised to spray Confider @ 0.4 ml or Actara 0.33 g per litre of water.
- Under prevailing weather condition, sowing of cucurbits like muskmelon, cucumber, bottle gourd, pumpkin, sponge gourd, squashes etc. can be done in field.

Uttarakhand

Amount of rainfall received over Uttarakhand is 0.5 mm (-97% large deficit) during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Uttarakhand is below normal for week-1 and week-2.

- Keeping in mind the possibility of dry weather due to increase in temperature in the coming

days, it is advised to apply need based irrigation in all crops.

- Monitoring is advised for the yellow rust disease in wheat crop. If disease is observed, then spray Tilt 25 EC (Propiconazole) dissolved in 1 ml per liter of water or Dithane M-45 @ 2 g per litre of water.

Andhra Pradesh

No rainfall was received over Coastal Andhra Pradesh and Rayalaseema during 01 - 10 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (11 - 17 March 2022 and 18 - 24 March 2022) over Coastal Andhra Pradesh and Rayalaseema is no rainfall for week-1 and; below normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- In Srikakulam, Vizianagaram, Kurnool, Nellore, East Godavari and Anantapur districts, present weather conditions are favorable for incidence of fall army worm in maize. Based on the intensity of the pest incidence, spraying of Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water is recommended.
- The current weather conditions are favorable for incidence of sucking pests in chilli grown in Srikakulam, Chittoor, Nellore and Ananthapuramu districts. To control, spraying of Profenofos @ 2ml or Thiodicarb 1.5g/ litre of water is recommended.

Disclaimer:

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