



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 19 March - 01 April 2021

Date of issue: 19 March 2021

Issued by

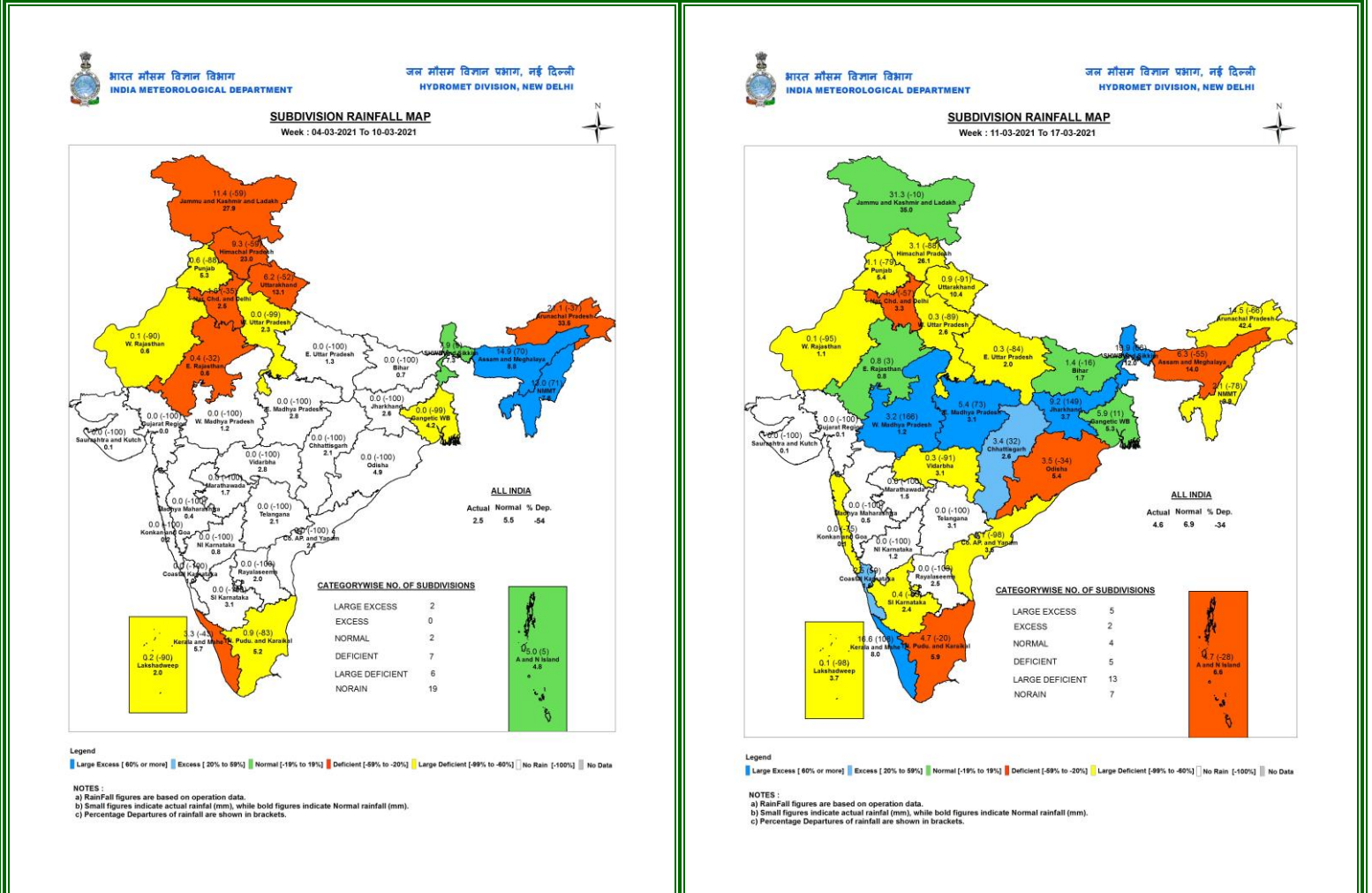
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (4th to 17th March, 2021)



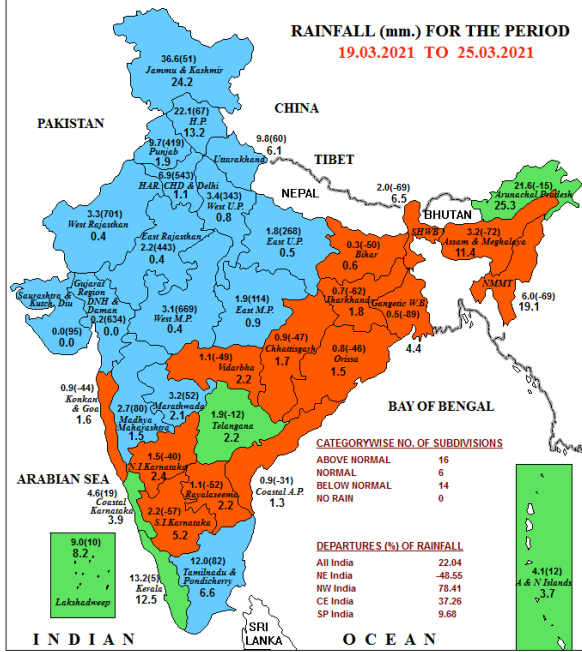
- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), East Rajasthan, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Gangetic West Bengal, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Coastal Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 17 March) (19th March to 1st April, 2021)

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Rainfall Forecast Map - Normal RF Based Categories

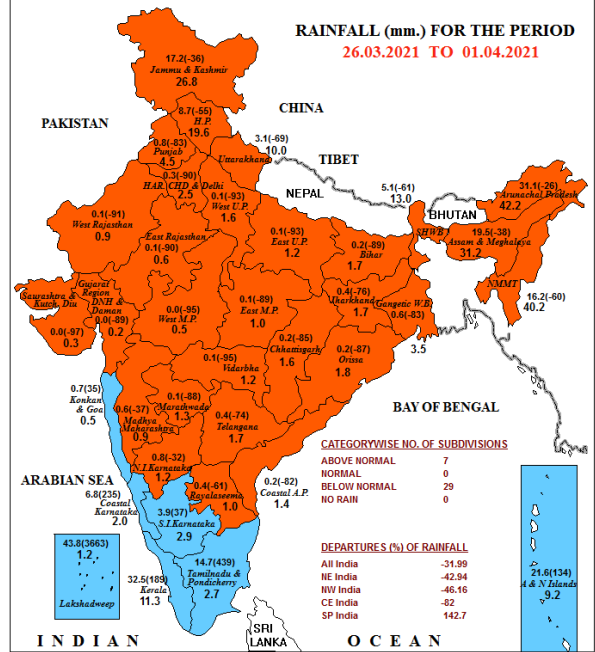


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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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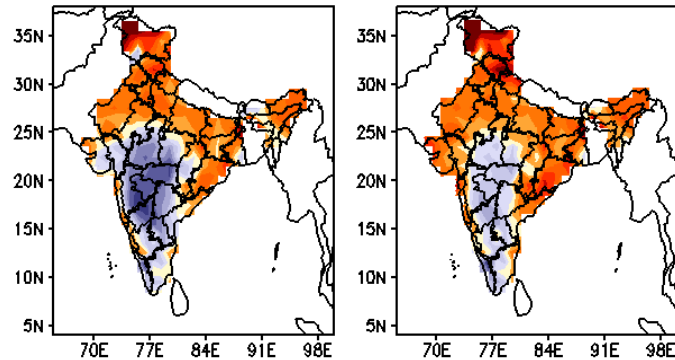
- Week 1 (19.03.2021 to 25.03.2021) and Week 2 (26.03.2021 to 01.04.2021):** Western Disturbance likely to moderate rainfall likely over Jammu & Kashmir and adjoining regions and Northwest India mainly in week 1. Possibility of slight rainfall over extreme north India in the subsequent week also. Some parts of the south peninsula (Coastal Tamil Nadu and coastal Kerala) will remain active in week 1. Rainfall over north-eastern India will gradually increase from week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 17 March)
(19th March to 1st April, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 19Mar–25Mar)

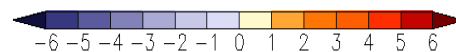
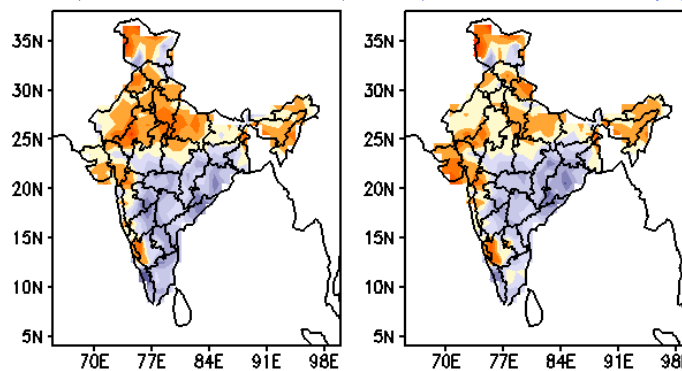
(Week2: 26Mar–01Apr)



MME forecast Tmin anomaly (Deg C)

(Week1: 19Mar–25Mar)

(Week2: 26Mar–01Apr)



Maximum Temperature (Tmax)

- **Week 1 (19.03.2021 to 25.03.2021) and Week 2 (26.03.2021 to 01.04.2021):** The Tmax over the entire northern India, Northwest India, Northeast India and some coastal parts of Odisha will experience above normal Tmax during the period with a gradual increase of Tmax positive anomaly areas week 2 onwards. Some parts of west central India will have slightly below normal Tmax in week 1 and week 2, however, it increases and will become slightly above normal week 2 onwards.

Minimum Temperature (Tmin)

- **Week 1 (19.03.2021 to 25.03.2021) and Week 2 (26.03.2021 to 01.04.2021):** Warm anomalies over Northwest India including Gujarat region, Uttar Pradesh, Bihar and north-eastern states during week 1 to week 2 with slight negative anomaly over central and south-eastern parts of India.

Strategic Agricultural Planning based on rainfall during next two weeks till 01 April 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 19.8 mm (18% excess) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) is normal for week-1 and above normal for week-2.

- For the management of nematode attack in banana, it is advised to apply Carbosulfan 6G @ 20 g per pit at the time of planting.
- Under prevailing dry weather condition, it is advised to give a heavy irrigation once in a fortnight in cardamom.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 5.6 mm (-40% deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is favourable for stem borer incidence in mango. To control, it is advised to apply Swab Coal tar + Kerosene @ 1:2 or Carbaryl 50 WP 20 g / l (basal portion of the trunk - 3 feet height) after scraping the loose bark to prevent oviposition by adult beetles.
- Prevailing weather condition is favorable for rhinoceros beetle incidence in coconut. To control, apply mixture of either Neem seed powder + sand (1:2) @150 g per palm or Neem seed kernel powder + sand (1:2) @150 g per palm in the base of the 3 inner most leaves in the crown.

Maharashtra

Rainfall received over Madhya Maharashtra is 0.0 mm (-98% large deficit), Marathwada is 0.7 mm (-85% large deficit), Vidarbha is 2.2 mm (-72% large deficit) and Konkan region 0.0 mm (-92% no rainfall) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) over Konkan and Vidharbha is below normal and Marathawada and Madhya Maharashtra is above normal for week-1 and Vidharbha Marathawada and Madhya Maharashtra is below normal and above normal over Konkan for week-2.

Marathwada

- Due to the chances of thunderstorm and rain, it is advised to harvest the mature grapes as early as possible and store them at safe places.
- Under prevailing weather condition, there is a chance of sucking pests in vegetable crops. For management, it is advised to spray Pyriproxyfen 5% + Fenpropathrin 15% @ 10 ml or Dimethoate 30% @ 13 ml per 10 litres of water during clear weather condition.

Vidharbha

- Due to chances of rain, it is advised to harvest the matured late sown wheat crop and store at

safer place.

- Due to chances of thunderstorm, it is advised to harvest the matured vegetables at the earliest possible.

Madhya Maharashtra

- Under prevailing weather condition, sowing of fodder jowar and maize is advised.
- Under prevailing high temperature, it is advised to give protection to newly planted fruit plants by providing temporary shadow.

Konkan

- Due to chances of light rainfall, there is a possibility of incidence of anthracnose disease in fruits of mango. To manage, it is advised to spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 litres of water.
- For the management of incidence of fruit fly in watermelon. It is advised to install 'Rakshak' trap @ 2 nos. per acre at the time of initiation of flowering.

Hisar

Amount of rainfall received over Hisar is 3.0 mm (-65% large deficit) during 01 March 2021 - 19 March 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) over Hisar is above normal for week-1 and below normal for week-2.

- Under prevailing dry weather, farmers are advised to keep vigil on insect/pests in sugarcane crop and also advised to apply need-based irrigation.
- 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 - 19 March 2021 over South Interior Karnataka is 0.4 mm (-93% large deficit) and North Interior Karnataka is 0.0 mm (-100% no rainfall). The extended range weather forecast (rainfall) for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and above normal over South Interior Karnataka and below normal over North Interior Karnataka for week-2.

South Interior Karnataka

- For the management of leaf hopper in mango orchard, spraying of Carbaryl, 50 WP @ 4g/litre of water or Imidachlorprid @ 0.3 ml/litre of water is advised.

North Interior Karnataka

- Under prevailing weather condition, harvesting of chickpea, sorghum, safflower and wheat is advised.

Uttar Pradesh

Rainfall received during 01 March 2021 - 19 March 2021 over East Uttar Pradesh 0.3 mm (-93% large deficit) and West Uttar Pradesh is 0.3 mm (-95% large deficit). The extended range weather forecast (rainfall) for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Farmers are advised for land preparation for the sowing of *zaid* urd, mung bean, maize and sunflower.
- Under prevailing dry weather condition, farmers are advised to harvest mature barley crop.

Eastern Uttar Pradesh

- Intercultural operation is advised to check the evapotranspiration losses.
- Harvest of potato crop is also advised.

Jammu

Amount of rainfall received over Jammu is 43.1 mm (-53% deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Jammu is above normal for week-1 and below normal for week-2.

- Prevailing weather condition is favourable for yellow rust in wheat crop. It is advised to apply Propaconazole (Tilt) @ 25ml in 25 litres of water/kanal and repeat the same after 10-15 days during clear weather.
- For the management of red pumpkin beetle in cucumber and bottle gourd, it is advised to incorporate Phorate granules 10G in the pits during transplanting.

West Bengal

Amount of rainfall received over West Bengal is 5.9 mm (-57% deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- For the management of mango hopper in mango orchard, it is advised to spray Imidachloprid @ 3ml/10 litres of water or Acetamiprid @ 1 ml/litre of water.
- To control shoot and fruit borer in brinjal crop, it is advised to apply Spionosad @ 1.0 ml/liter of

water.

Odisha

Amount of rainfall received over Odisha is 3.9 mm (-72% large deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of purple blotch and stemphylium blight disease in onion crop. To manage, it is advised to spray Mancozeb 75% WP @ 600 g/acre or Difenoconazole 25% EC @ 200ml/acre by mixing in 200 litres of water at 15 days interval.
- Under prevailing weather condition, there are chances of infestation of sucking pest in chilli crop. It is advised to spray Neem-based pesticide (Azadirachtin) 1500 ppm @ 600 ml/acre by mixing in 200 litres of water.

Assam

Amount of rainfall received over Assam is 23.0 mm (-25% deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Due to the congenial weather condition for fruit rot disease in the chili plantations, keep a vigil and for control, it is advised to spray Glyodin or Maneb pesticide in the recommended dose.
- Farmers are advised to continue the land preparation for cultivation of maize. Recommended hybrid varieties are Ganga 5, Vivek Maize, Hybrid 47, Vivek Maize Hybrid 53, Bio 9544 etc.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 12.4 mm (-82% large deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- Maintain room temperature of 25-28°C and relative humidity around 80-85% for successful cultivation of mushrooms.
- For the management of thrip attack in early sown onion, it is advised to spray Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) during clear weather condition.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Andhra Pradesh is below normal for week-1 and week-2.

- Current weather conditions are favourable for fruit drop in mango. The fruit set in mango can be improved by spraying NAA (Planofix) @ 1.0 ml/4.5 litre of water is recommended.
- Current weather condition is favourable for the incidence of fall army worm in maize (especially in Vizianagaram, Visakhapatnam, Chittoor, East Godavari, West Godavari and Ananthapuramu districts). To control, spray Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water.

Bihar

Amount of rainfall received over Bihar is 1.4 mm (-63% large deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Bihar is below normal for week-1 and week-2.

- Regular monitoring for thrips infestation in onion is advised. If the insect population is above ETL, spray Profenofos @ 1ml /litre or Imidacloprid @ 1ml /4 litres of water.
- Under prevailing weather, sowing of mung bean and urd bean is also advised with recommended varieties of mung bean (Pusa Vishal, Samrat, SML-668, HUM-16 and Sona) and urd bean (Pant Urd-19, Pant Urd-31, Ultra and Navin).

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 6.2 mm (-22% deficit) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Madhya Pradesh is above normal for week-1 and below normal for week-2.

- Field preparation for sowing of *zaid* crops like summer soybean, mung, urd and vegetables is advised.

Gujarat

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Gujarat is above normal for week-1 and below normal for week-2.

- For the management of sucking pest, it is advised to spray 3 ml Phosphamidon or 15 ml Dimethoate in 10 litres water.
- Under prevailing weather condition, it is advised to keep the animals under clean shed and provide adequate food and cold water for drinking.

Jharkhand

Amount of rainfall received over Jharkhand is 9.2 mm (1% excess) during 01 March 2021 - 19 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (19 - 25 March 2021 and 26 March - 01 April 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- For the management of powdery mildew disease, it is advised to spray of Karathen @ 1 ml per litre of water.

Disclaimer:

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