



**National Agromet Advisory Service Bulletin**  
**Based on**  
**Extended Range Weather Forecast (ERFS)**

**Validity: (06<sup>th</sup> March to 19<sup>th</sup> March 2020)**

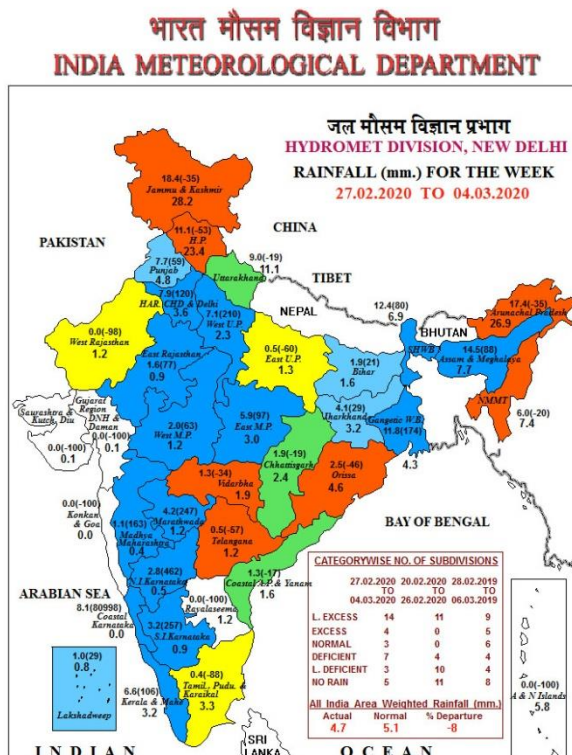
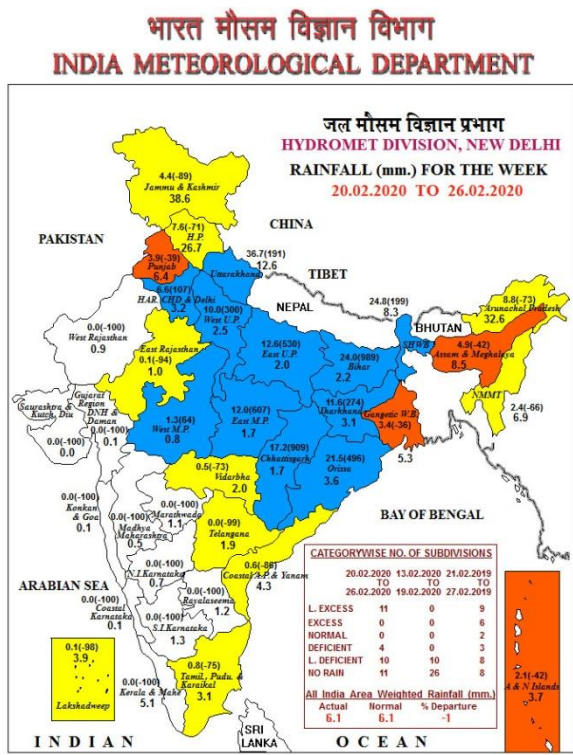
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**All India Coordinated Research Project on Agro meteorology (AICRPAM),**  
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**&**  
**Earth System Science Organization**  
**India Meteorological Department**

## Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

### Realized Rainfall

(20<sup>th</sup> February to 4<sup>th</sup> March, 2020)

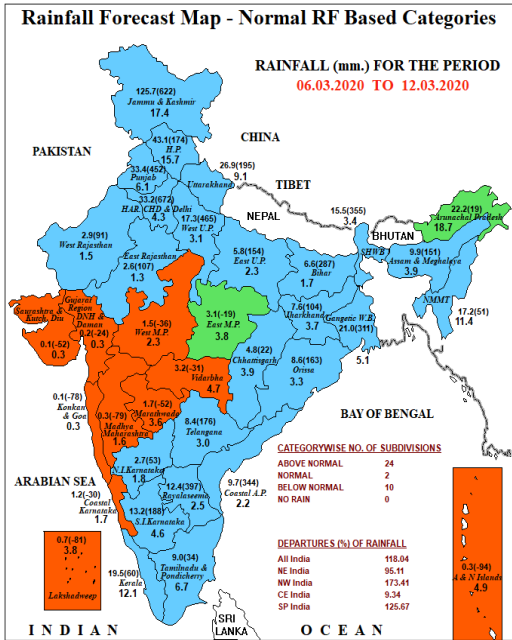


- Normal or above normal rainfall occurred in both the weeks in Haryana, Chandigarh & Delhi, West Uttar Pradesh, Uttarakhand, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Madhya Pradesh.
- Normal or above normal rainfall occurred in either of the weeks in Punjab, East Uttar Pradesh, Gangetic West Bengal, Assam & Meghalaya, Coastal Andhra Pradesh, Chhattisgarh, Odisha, East Rajasthan, Madhya Maharashtra, Marathwada, Karnataka, Kerala & Mahe and Lakshadweep.
- Below normal rainfall/no rain occurred over rest of the country in either of the two weeks.

# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 04 March) (6<sup>th</sup> to 19<sup>th</sup> March 2020)

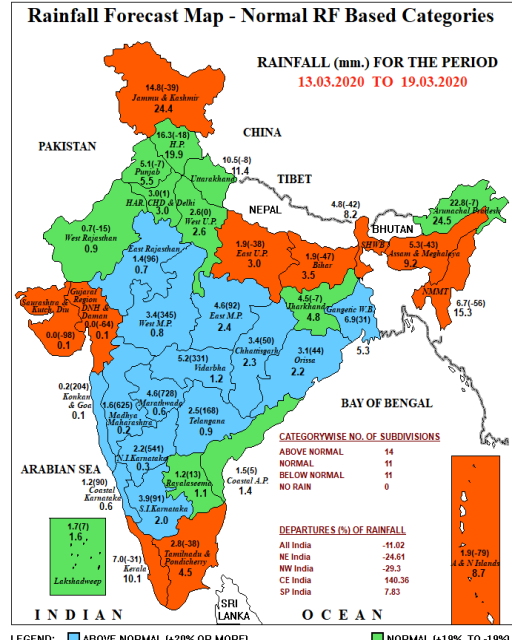
### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



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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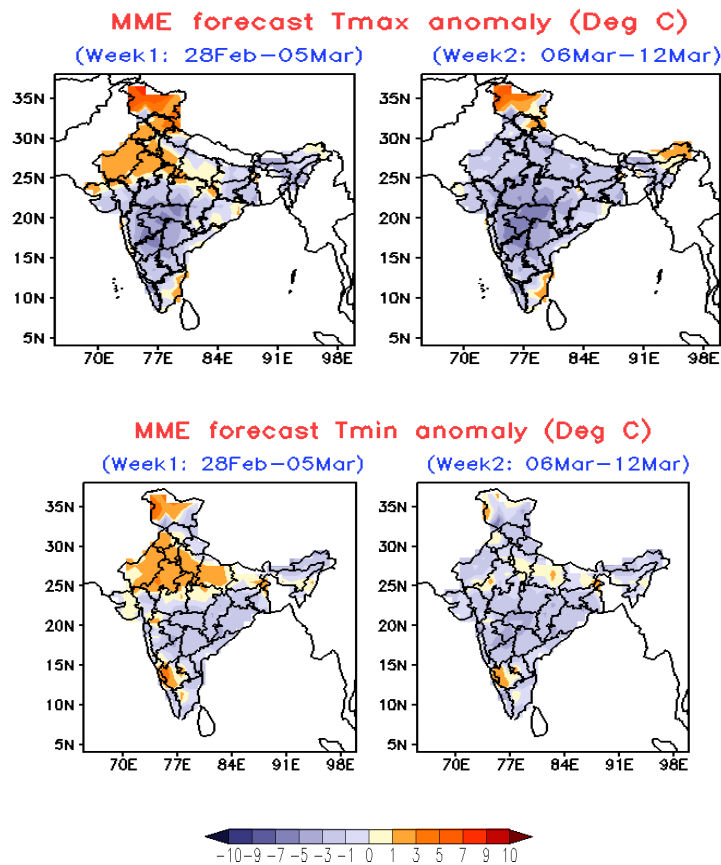


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NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

- Week 1 (06.03.2020 to 12.03.2020):** WD associated rainfall over north India (J&K; Uttarakhand, Himachal Pradesh, Punjab, Haryana, western UP and adjoining region) is likely during the week. Also parts of north-eastern states and eastern coastal regions (West Bengal, Odisha and Andhra Pradesh) are likely to get some rainfall.
- Week 2 (13.03.2020 to 19.03.2020):** Mostly normal rainfall conditions.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 26 February)  
(28<sup>th</sup> Feb. to 12<sup>th</sup> March 2020)**



**Maximum Temperature (Tmax)**

- **Week 1 (28.02.2020 to 05.03.2020):** Tmax (Maximum temperature) is likely to be above normal over north-west India, adjoining north India. Above normal Tmax over some parts of eastern coastal region. However, most parts of central India, south peninsula Tmax will be below normal.
- **Week 2 (06.03.2020 to 12.03.2020):** Except some parts of northern-most India, most parts of central India, India, south peninsula and central India Tmax will be below normal.

**Minimum Temperature (Tmin)**

- **Week 1 (28.02.2020 to 05.03.2020):** Tmin anomaly is mostly negative over south-eastern coast, central India and south peninsula during week 1. However, in the north-west India there will be above normal Tmin.
- **Week 2 (06.03.2020 to 12.03.2020):** Tmin anomaly is mostly negative over India particularly in Week 2.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 19<sup>th</sup> March 2020**

### **Agromet Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 643.5 mm (25% excess) during the period of 01 Oct. 2019 - 05 March 2020. The extended range weather forecast for next two weeks (06 - 12 March and 13 - 19 March 2020) is above normal for week-1 and below normal for week-2.

- Due to dry spell there is a chance of whitefly attack on coconut leaves. It is advised to spray 2% Neem oil emulsion on the leaves to protect from whitefly attack.
- Because of increase in temperature, it is advised to adopt protection measures for mulching, shading, white washing and making fire belts in rubber crop.

#### **Tamil Nadu**

Amount of rainfall received over Tamil Nadu is 463.6 mm (-3% deficit) during the period of 01 Oct. 2019 - 05 March 2020. The extended range weather forecast for next two weeks (06 - 12 March and 13 - 19 March 2020) is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for sucking pest in chilli. To control, spray of Imidacloprid 17.8% SL 3.0 ml/10 litre or Dimethoate 30% EC 1.0 ml/litre is advised.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 229.7 mm (122% large excess), over Marathwada is 264.5 mm (145% large excess), Vidharbha is 93.5 mm (-7% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast for next two weeks (06 - 12 March and 13 - 19 March 2020) over Marathwada, Vidharbha, Konkan and Madhya Maharashtra is below normal for week-1 and above normal over Marathwada, Konkan, Vidharbha and Madhya Maharashtra for week-2.

##### *Madhya Maharashtra*

- To avoid fruit fall in mango crop, it is advised to spray Planofix regulator 20 ppm and 1% Calbor micronutrient.
- Ploughing in the field is advised immediately after harvesting of *rabi* crops to bury stubbles and to control soil born pest and diseases.

##### *Marathwada*

- For management of stem fly in wheat crop, it is advised to spray Cypermethrin 10 % EC @ 10 ml per 10 litre of water.
- For management of white fly in sugarcane crop, it is advised to use of 2 to 3 Tricho cards per hector

with an interval 10 days for 4 to 6 times or spray of Chlorpyrifos 20 % @ 30 ml or Fipronil 5% @ 30 ml per 10 litre of water is advised.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 270.4 mm (-9% deficit) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over Himachal Pradesh is above normal for week-1 and normal for week-2.

- Due to prevailing weather condition, there is chances of aphid in mustard crop. Farmers are advised to spray Rogor or Quinalphos @ 2.0 ml/litre of water.
- Nursery preparation is advised for chili, tomato and brinjal crops in poly houses.

### **Hisar**

Amount of rainfall received over Hisar is 72.6 mm (37% excess) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over Hisar is above normal for week-1 and normal for week-2.

- Farmers are advised to keep vigilance on insect-pest and diseases and follow proper weed control measures and cover fruit seedling with rice straw (parali)/thatches in nursery.
- It is advised to maintain good amount of water in pond to save fishes from low temperature.
- It is advised to protect the animals from variable weather conditions and provide clean and dry bedding. 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 Oct. 2019 - 05 March 2020 over South Interior Karnataka is 310.6 mm (47% excess) and North Interior Karnataka is 248.6 mm (73% large excess). The extended range weather forecast for next two weeks (06 - 12 March and 13 - 19 March 2020) over South Interior Karnataka and North Interior Karnataka are above normal for week-1 and week-2.

#### *South Interior Karnataka*

- To protect the pulse grains from storage pests, application of oils of castor/linseed/honge/neem oil @ 3-5 ml per kg of grains is advised.
- Due to continuous dry spell, there are chances of termite attack in horticulture, forestry tree and shrubs. Hence, to control apply Aldrin termicides for termites.
- It is advised to prepare silage from the harvested maize and other pulse crops to overcome shortage of green fodder.

## **Assam**

Amount of rainfall received over Assam is 248.7 mm (normal rainfall) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over Assam is above normal for week-1 and below normal for week-2.

- It is advised to prepare land for growing ridge and sponge gourd. Recommended varieties viz. AAUJ-1, AAUJ-2, AAUJ-3 etc. for ridge gourd and Pusa Chikni or other local varieties for sponge gourd cultivation.
- Under prevailing weather condition, farmers are advised to go for planting of colocasia crop. Recommended healthy improved varieties like Kaka Kachu, White Gaurya, Panchamukhia, Bidhan Chattanya, Ahinia Kachu and Bidhan Jaydeb.
- It is advised to prepare land for growing greengram & blackgram crop with recommended varieties viz. T9, Pant U 19, UG 157 for black gram and Kopergaon, Pratap, AAU 39 for green gram cultivation.

## **Jammu**

Amount of rainfall received over Jammu is 417.7 mm (11% excess) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over Jammu is above normal for week-1 and below normal for week-2.

- The present weather condition favours the outbreak of aphids in late sown mustard crop. if noticed, spray of Imidacloprid @ 0.3 ml/litre of water or Dimethoate 30 EC @ 1ml/litre of water during clear weather.
- Division of suckers for the multiplication of Chrysanthemum plants is recommended.

## **Jharkhand**

Amount of rainfall received over Jharkhand is 194.3 mm (61% large excess) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over Jharkhand is above normal for week-1 and normal for week-2.

- For the management of stem and fruit borer in brinjal crop, it is advised to install 10 Pheromone trap in one acre.
- Because of increase in temperature, it is advised to add cow dung and lime or rice bran and mustard cake in the pond as a natural foods for fishes @ 5 kg/day/ acre area of pond.

## **Rajasthan**

Amount of rainfall received over East Rajasthan is 43.0 mm (19% excess) during 01 Oct. 2019 - 05 March 2020. The extended range weather forecast provided for next two weeks (06 - 12 March and 13 - 19 March 2020) on rainfall over East Rajasthan is above normal for week-1 and week-2.

- Because of increase in temperature, farmers are advised to start field preparation for sowing of early crop of okra with improved varieties A-4, Parbani Kranti and Arka anamika cultivars.

- Under prevailing weather conditions, transplanting of young seedlings of cole crop is advised.

### **Uttar Pradesh**

Rainfall received during 01 Oct. 2019 - 05 March 2020 over East Uttar Pradesh is 87.0 mm (17% excess) and West Uttar Pradesh is 106.2 mm (70% large excess). The extended range weather forecast for next two weeks (06 - 12 March and 13 - 19 March 2020) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and below normal over East Uttar Pradesh and normal over West Uttar Pradesh for week-2.

- Due to cloudy weather and high temperature, there are chances of pod borer and semilooper in pigeon pea and in chickpea. Hence, farmers are advised to spray 1.5 litre Monocrotophas or Quinalphos 20% EC 2.0 litre/ha or Malathion 50 % EC 2.0 litre/ha with 500 to 600 litre of water on clear sky.
- Because of cloudy weather conditions, there are chances of aphids in late sown mustard crop. If observed then spraying of Chlorpyriphos 20% EC@ 1.0 litre/ha or Monocrotophos 36 % S.L. @ 500 ml/ha with 500-600 litre of water solution on clear sky is advised.

*Disclaimer: The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*