



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 19 February - 04 March 2021

Date of issue: 19 February 2021

Issued by

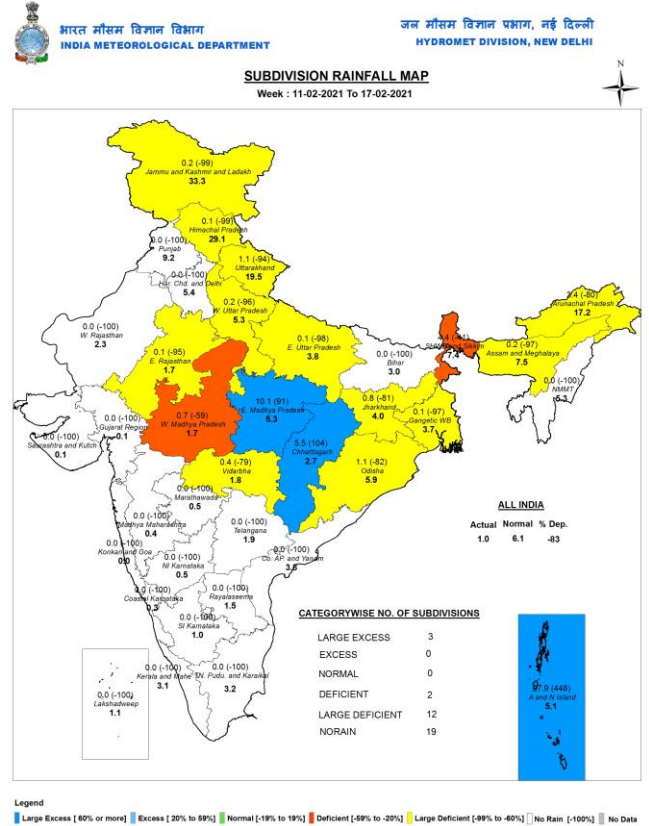
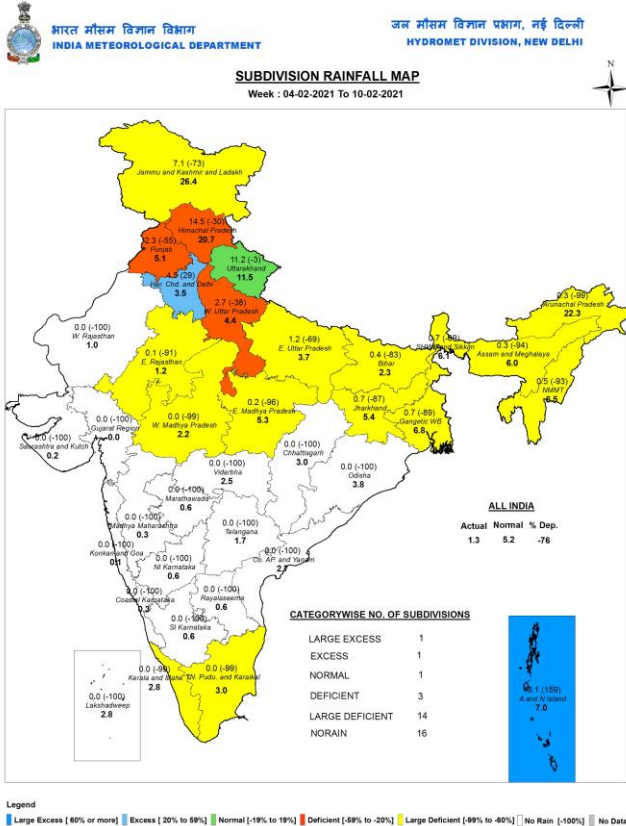
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (4th to 17th Feb., 2021)



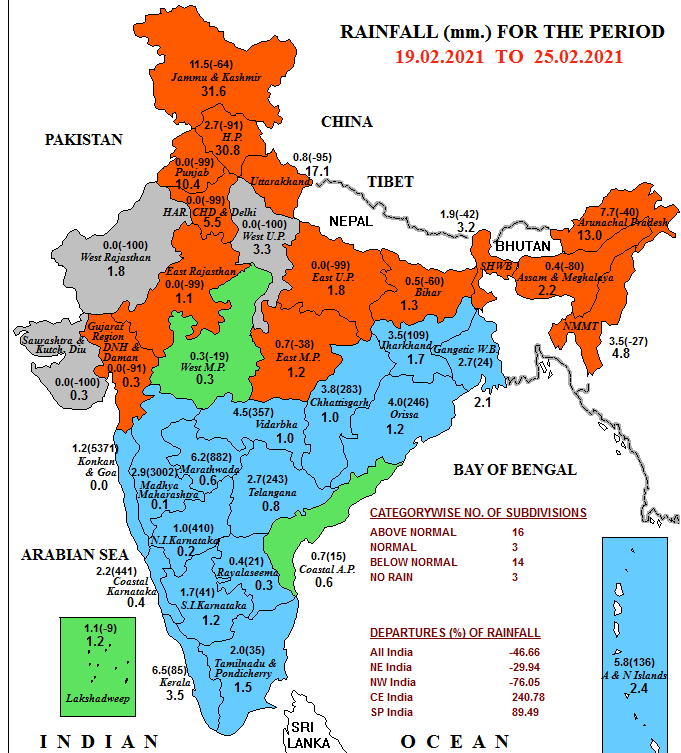
- Normal or above normal rainfall occurred in both the weeks in Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, Haryana Chandigarh & Delhi, East Madhya Pradesh and Chhattisgarh.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 17 Feb.)
(19th Feb. to 4th March, 2021)

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Rainfall Forecast Map - Normal RF Based Categories

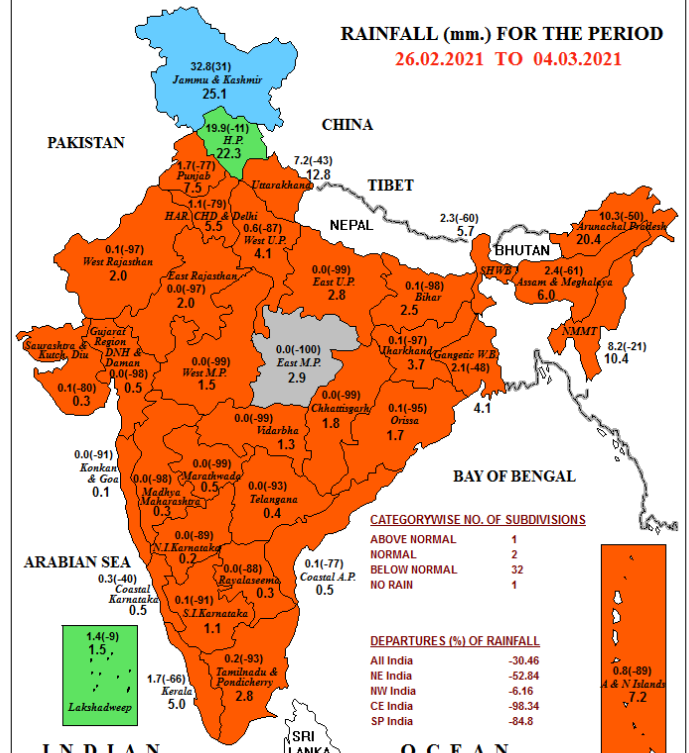


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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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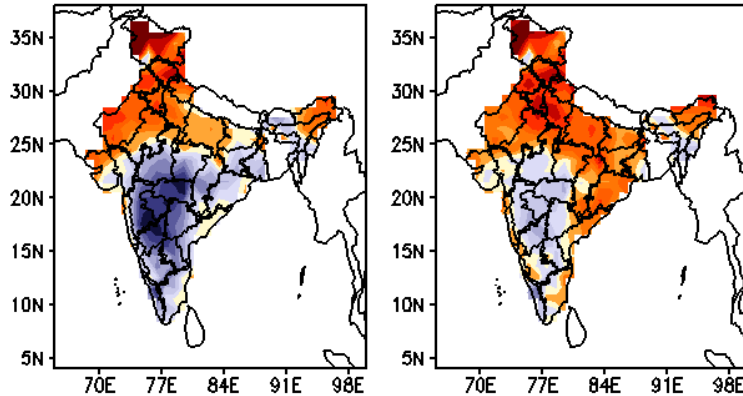
- **Week 1 (19.02.2021 to 25.02.2021):** Rainfall likely over southern and adjoining central parts of India and also over the Bay of Bengal.
- **Week 2 (26.02.2021 to 04.03.2021):** Western Disturbance associated rainfall likely over Jammu & Kashmir and Ladakh (UTs) and adjoining regions.

**Maximum and Minimum Temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 17 Feb.)
(19th Feb. to 4th March, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 19Feb–25Feb)

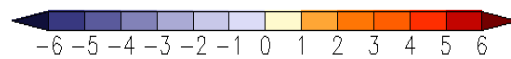
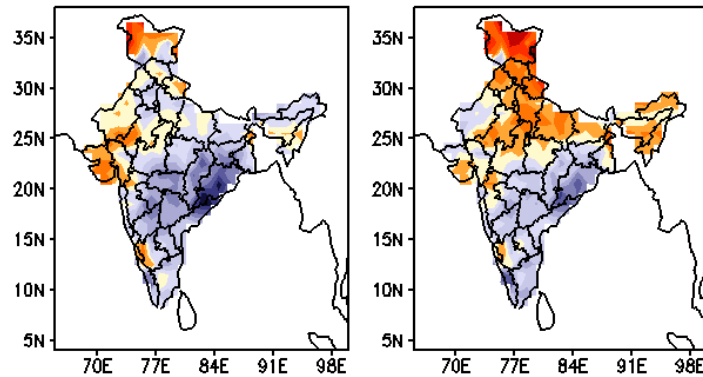
(Week2: 26Feb–04Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 19Feb–25Feb)

(Week2: 26Feb–04Mar)



Maximum Temperature (Tmax)

- **Week 1 (19.02.2021 to 25.02.2021) and Week 2 (26.02.2021 to 04.03.2021):** The Tmax over the entire northern India, North West India, North East India will be above normal during week 1. The warming will also continue in week 2 over the same regions and warming likely over the additional regions of eastern coastal states (Odisha, Coastal Andhra Pradesh, Tamil Nadu Puducherry & Karaikal).

Minimum Temperature (Tmin)

- **Week 1 (19.02.2021 to 25.02.2021) and Week 2 (26.02.2021 to 04.03.2021):** Warm anomalies over North West India including Gujarat region and extreme north India in week 1 and week 2 with warming areas extended to Punjab, Haryana, Uttar Pradesh, Bihar, Jharkhand, north Madhya Pradesh and North Eastern states.

Strategic Agricultural Planning based on rainfall during next two weeks till 04 March 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 105.6 mm (573% large excess) during 01 January 2021 - 18 February 2021. The extended range weather forecast for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) is above normal for week-1 and below normal for week-2.

- For the management of bacterial leaf blight in paddy, it is advised to spray 20 g *Pseudomonas* in one litre of water or spray 6 g of Streptocycline in 30 litres of water.
- Due to increase in temperature, there is a chance of sucking pest attack in vegetable crops. It is advised to spray Neem based insecticide on vegetable crops at 10 days interval or use *Verticillium lecanii* @ 20 g per litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 138.6 mm (495% large excess) during 01 January 2021 - 18 February 2021. The extended range weather forecast for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) is above normal for week-1 and below normal for week-2.

- Prevailing weather is favorable for sucking pest insect in cotton. To control, it is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha or Dimethoate 30 EC 500ml/ha (or) NSKE 5% @ 2 kg/ha.
- Prevailing weather is favourable for mealy bug incidence in guava. It is advised to apply Triozophos 2 ml + Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml + Neem oil 5 ml/litre or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

Maharashtra

Rainfall received over Madhya Maharashtra is 18.4 mm (702% large excess), Marathwada is 2.9 mm (-48% deficit), Vidharbha is 2.0 mm (-87% large deficit) and Konkan region 5.9 mm (876% large excess) during 01 January 2021 - 18 February 2021. The extended range weather forecast for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) over Vidharbha, Marathawada Madhya Maharashtra and Konkan is above normal for week-1 and below normal for week-2.

Marathwada

- Due to chances of thunderstorm and rain, farmers are advised to harvest the timely sown mature *rabi* crops like rabi sorghum, chickpea and wheat as early as possible and store them at safe place.

Vidharbha

- Due to the chances of thunderstorm, it is advised to harvest the mature orange to avoid the quality damage.

Madhya Maharashtra

- Under prevailing weather, sowing of summer groundnut is advised between 15 January to 15 February.

Konkan

- Due to chance of cloudy weather conditions, there is possibility of incidence of downy mildew in cucurbitaceous vegetables. To manage, it is advised to remove and destroy infected leaves and spray Mancozeb or Zineb 2.5 g/litre of water during clear weather at an interval of 10 to 15 days.
- Under prevailing weather, there is a chance of incidence of tea mosquito bugs and thrips on the fruits of cashewnut. To protect, it is advised to spray Lambda cyhalothrin 5% EC @ 6 ml or Acetamiprid 20% SP @ 5 g per 10 litres of water during clear weather.

Hisar

Amount of rainfall received over Hisar is 26.0 mm (5% excess) during 01 January 2021 - 18 February 2021. The extended range rainfall forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to keep vigil on insect/pests in sugarcane crop and also go for need-based irrigation.
- Due to decrease 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 - 100 g mineral mixture daily along with animal feed/fodder.

Karnataka

Rainfall received during 01 January 2021 - 18 February 2021 over South Interior Karnataka is 26.6 mm (548% large excess) and North Interior Karnataka is 8.1 mm (87% large excess). The extended range weather forecast for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and below normal for week-2.

South Interior Karnataka

- Due to continuous dry spell, there is a termite attack in horticultural crops, forestry tree and shrubs. To protect, it is advised to apply Aldrin termiticides.
- For the management of leaf hopper in mango orchard, spraying of Carbaryl, 50 WP @ 4g/litre of water or Imidachlorprid @ 0.3ml/litre of water is advised.

North Interior Karnataka

- Under prevailing weather condition, harvesting of pigeon pea, early sown chickpea and onion is advised.

- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia* is advised.

Uttar Pradesh

Rainfall received during 01 January 2021 - 18 February 2021 over East Uttar Pradesh 1.6 mm (-93% large deficit) and West Uttar Pradesh is 16.1 mm (-32% deficit). The extended range weather forecast for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) over East Uttar Pradesh is below normal and no rain over West Uttar Pradesh for week-1 and below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to dry weather condition, farmers are advised to irrigate their wheat crops.
- Due to high temperature and cloudy weather, aphid attack may occur in mustard crops. If observed, spray Imidachloprid 17.8% SL @ 300ml/ha with 500 to 600 litres water solution.

Eastern Uttar Pradesh

- Intercultural operation is advised to check the evapo-transpiration losses and proper utilization of nutrient to the crop.

Jammu

Amount of rainfall received over Jammu is 97.0 mm (-42% deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Jammu is below normal for week-1 and above 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 same after 10-15 days during clear weather.
- Due to congenial weather, there is a chance of *alternaria* blight infestation in mustard crop. If observed, spray Mancozeb @ 0.25%.

West Bengal

Amount of rainfall received over West Bengal is 1.1 mm (-96% large deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over West Bengal is above normal for week-1 and below normal for week-2.

- Under prevailing weather, late blight may appear in potato crop. It is advised to spray Blitox or Mancozeb @ 2.5g /litre of water at an interval of 5-7 days.
- Due to sudden increase in temperature, there is a chance of aphid infestation in late sown

mustard crop. To control, it is advised to apply Metasystox/rogor @ 1.5 ml per litre of water.

Odisha

Amount of rainfall received over Odisha is 2.5 mm (-90% large deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Odisha is above normal for week-1 and below normal for week-2.

- Due to foggy weather, there is a chance of infestation of sucking pest in mango. To manage, it is advised to spray Imidacloprid 17.8% SL @ 5 ml/15 litres of water or Thiamethoxam 25% WG @ 3 ml/15 litres of water or Acetamiprid 20% SP @ 4 g/15 litres of water.
- For the management of whitefly in tomato and brinjal crop, 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 9.4 mm (-72% deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to continue the land preparation for sowing of summer green gram and black gram. Recommended varieties for green gram are K-851, Pratap and for black gram are Pant U-19 and SBC-40.
- Under prevailing weather condition, harvesting of matured potato and mustard crop is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 52.2 mm (-65% deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Farmers are advised to maintain room temperature of 25-28°C and relative humidity around 80-85% for successful cultivation of mushrooms.
- Due to prevailing cold weather, it is advised to cover the young horticultural plants with grass to avoid damage from severe cold.
- Nursery preparation for chilies, tomato and brinjal crops in polyhouse is advised.

Gujarat

Amount of rainfall received over Gujarat is 2.5 mm (95% large excess) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Gujarat is below normal for week-1 and week-2.

- Under prevailing weather condition, land preparation for sowing of summer okra is advised. Recommended varieties are Gujarat Okra-2, Gujarat Anand okra-5, Pusa Makhmali, Varsha Uphar, Gujarat Junagadh Okra Hybrid-2, 3.
- Under prevailing weather condition, sowing of summer green gram is also advised with recommended varieties GM-6, GM-4, K-851, Meha, GAM-5.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 22.8 mm (274% large excess) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Andhra Pradesh is above normal for week-1 and below normal for week-2.

- Current weather is congenial for leaf folder and stem borer incidence in rice in Visakhapatnam, Kadapa, Nellore, Vizianagaram, Krishna, West Godavari, Prakasam Ananthapuramu and Kurnool districts. To control, spray Acephate @ 1.5g/litre or Chlorantraniliprole @ 0.4 ml/litre of water is advised.
- Present weather is also favorable for hopper damage in mango. Spray Dimethoate @ 2ml or Chlorpyrifos @ 2.5ml/litre of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 39.7 mm (-50% deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- For the management of leaf curl disease in the peach fruit plants, it is advised to spray Carbendazim @ 100g or Copper oxychloride @ 600 in 200 litres of water.
- Under prevailing weather, it is advised to prepare the fields for summer vegetables like tomato, capsicum and bhindi etc. in lower hill areas.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 8.7 mm (-53% large deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Due to congenial weather condition, there may be aphid infestation in vegetables, fruit and shoot borer in brinjal. Hence, farmers are advised to keep a watch over the crops and adopt integrated

pest management practices like light trap, pheromone trap, bird perch etc. for initial control.

- Sowing of summer vegetables like pumpkin, bitter gourd, bottle gourd, okra etc is advised.

Jharkhand

Amount of rainfall received over Jharkhand is 1.8 mm (-91% large deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Jharkhand is below normal for week-1 and above normal for week-2.

- Farmers may go for sowing green gram with recommended varieties after receiving good rain.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 12.2 mm (-58% deficit) during 01 January 2021 - 18 February 2021. The extended range weather forecast provided for next two weeks (19 - 25 February 2021 and 26 February - 04 March 2021) on rainfall over Madhya Pradesh is below normal for week-1 and no rainfall for week-2.

- As rain is expected in east Madhya Pradesh, farmers are advised to keep harvested produce under shade and remove or drain excess water from the fields.

Disclaimer:

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