



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 05 - 18 March 2021

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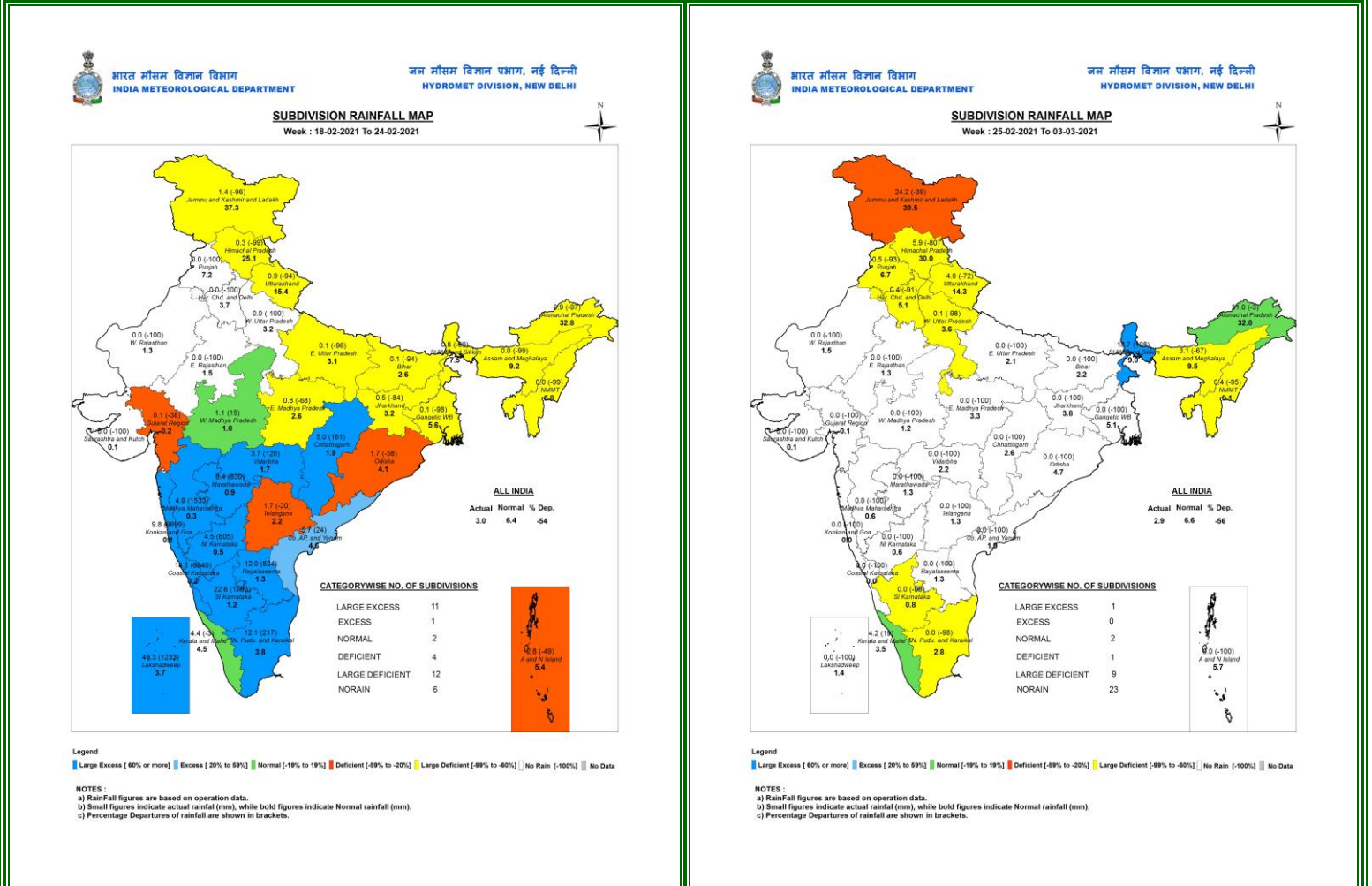
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (18th Feb. to 3rd March, 2021)



- Normal or above normal rainfall occurred in both the weeks in Kerala & Mahe,
- Normal or above normal rainfall occurred in either of the two weeks in Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, West Madhya Pradesh, Chhattisgarh, Maharashtra & Goa, Coastal Andhra Pradesh & Yanam, Rayalaseema, Karnataka, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

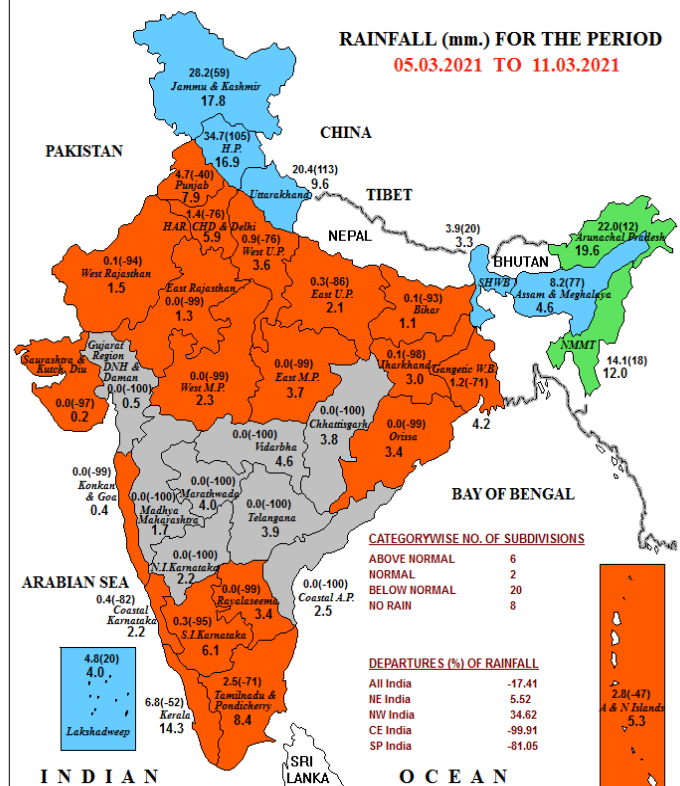
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 03 March)

(5th to 18th March, 2021)

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Rainfall Forecast Map - Normal RF Based Categories

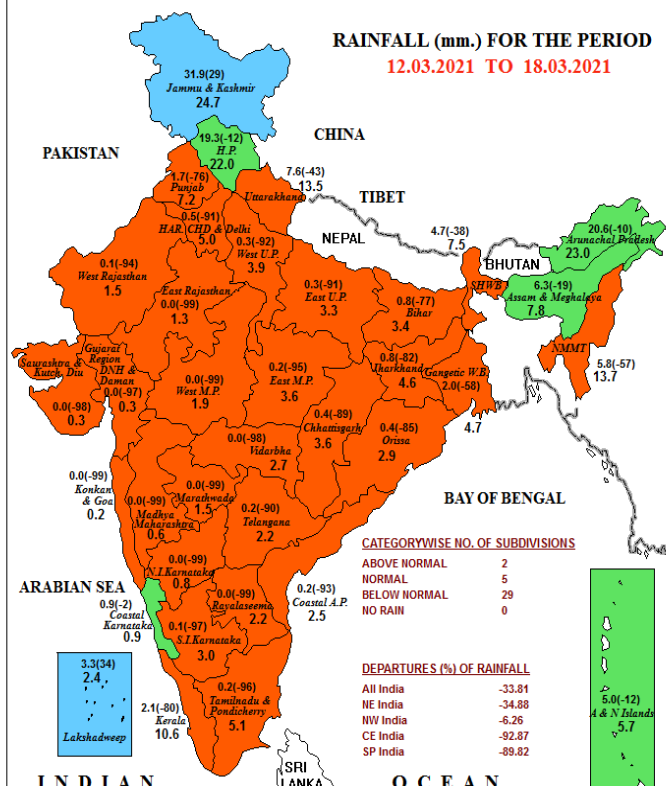


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) NO DATA

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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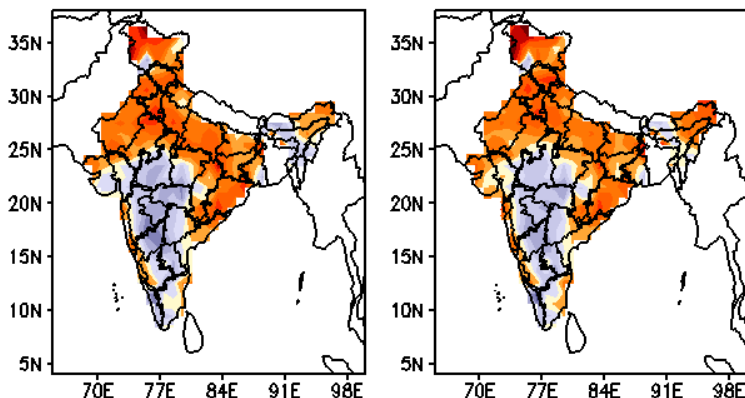
- **Week 1 (05.03.2021 to 11.03.2021) and Week 2 (12.03.2021 to 18.03.2021):** Western Disturbance associated light to moderate rainfall likely over Jammu & Kashmir and adjoining regions in week 1 to week 2. Some parts of the south peninsula and north-eastern states may get light/moderate rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 03 March)
(5th to 18th March, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 05Mar–11Mar)

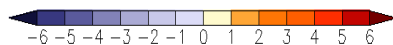
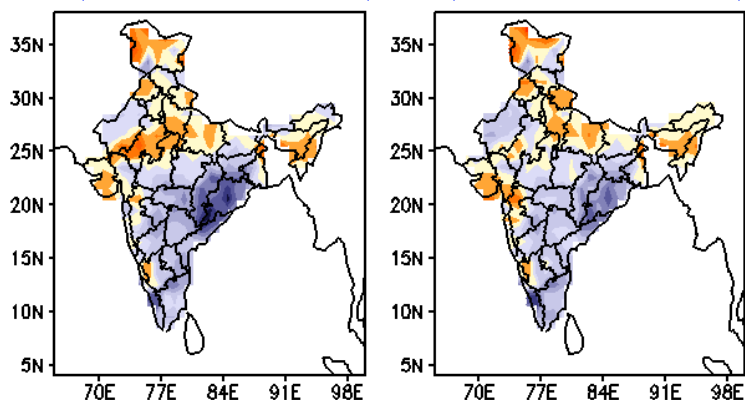
(Week2: 12Mar–18Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 05Mar–11Mar)

(Week2: 12Mar–18Mar)



Maximum Temperature (Tmax)

- **Week 1 (05.03.2021 to 11.03.2021) and Week 2 (12.03.2021 to 18.03.2021):** 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. Some parts of West Central India will have slightly below normal Tmax in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (05.03.2021 to 11.03.2021) and Week 2 (12.03.2021 to 18.03.2021):** Warm anomalies over Northwest India including Gujarat region, Uttar Pradesh, Bihar and North Eastern states during week 1 and week 2. Except over some parts of eastern coastal states of India, Tmin will be above normal over most parts of India. Eastern coastal states and adjoining central and south peninsula will have negative anomalies.

Strategic Agricultural Planning based on rainfall during next two weeks till 18 March 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 0.1 mm (-96% large deficit) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) is below normal for week-1 and week-2.

- Due to increase in temperature, it is advised to bury fresh or dried coconut husk around the palm trees to conserve soil moisture.
- Under prevailing weather condition, there is a chance of nematode attack in banana. To control, it is advised to apply Carbosulfan 6G @ 20 g per pit at the time of planting.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) is below normal for week-1 and week-2.

- 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.
- Prevailing weather condition is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 0.0 mm (-100% no rainfall), Marathwada is 0.0 mm (-100% no rainfall), Vidarbha is 0.0 mm (-100% no rainfall) and Konkan region 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) over Vidharbha, Marathawada, and Madhya Maharashtra is no rainfall and Konkan is below normal for week-1 and below normal over Vidharbha, Marathawada, Madhya Maharashtra and Konkan for week-2.

Marathwada

- For the management of leaf curl in chilli crop, it is advised to spray Fipronil 5% @ 10 ml or Thiamethoxam 12.6% + Lambda-Cyhalothrin 9.5% @ 3 ml per 10 litres of water.
- Due to higher chances of increase in temperature, it is advised to apply mulch on the roof of animal shade with dry grass / trash of sugarcane to protect the animals.

Vidharbha

- Under prevailing dry weather, it is advised to apply irrigation in late sown wheat crop.
- Under prevailing weather, sowing of water melon and musk melon is advised with

recommended varieties of water melon (Asahi Yamato, Sugar baby, Arka Manik and Pusa bedana) and muskmelon (Pusa Sharbati, Pusa Madhuras, Hara Madhu).

Madhya Maharashtra

- Harvesting of *rabi* sorghum and wheat crop is advised if those are at harvest stage.

Hisar

Amount of rainfall received over Hisar is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather, farmers are advised to keep vigil on insect/pests in sugarcane crop and also advised to apply need-based irrigation.
- Due to lower 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 March 2021 - 05 March 2021 over South Interior Karnataka is 0.0 mm (-100% no rainfall) and North Interior Karnataka is (-100% no rainfall). The extended range weather forecast (rainfall) for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) over South Interior Karnataka is below normal and no rainfall over North Interior Karnataka for week-1 and below normal over South Interior Karnataka and 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.
- 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 March 2021 - 05 March 2021 over East Uttar Pradesh 0.0 mm (-100% no rainfall) and West Uttar Pradesh is (-100% no rainfall). The extended range weather forecast (rainfall) for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

Western Uttar Pradesh

- Due to chances of increase in maximum temperature, farmers are advised to irrigate their barley crops.
- Due to high temperature and cloudy weather, there is a chance of attack of pod borer in chickpea. It is advised to spray Fenvelret 20% EC @ 2.0 litres or Novaluron 10% EC @ 750 ml/ha with 500 to 600 litres water solution.

Eastern Uttar Pradesh

- Intercultural operation is advised to check the evapotranspiration losses.

Jammu

Amount of rainfall received over Jammu is 0.0 mm (-99% large deficit) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Jammu is above normal for week-1 and week-2.

- Prevailing weather condition is favourable for yellow rust in wheat crop. It is advised to apply Propaconazole (Tilt) @ 25 ml in 25 litres of water/kanal and repeat 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 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 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 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- For the management of cut worm infestation in potato crop, it is advised to spray Chlorpyrifos 50% + Cypermethrin 5% EC @ 400 ml/acre by mixing it in 200 litres of water.
- 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-litre of water.

Assam

Amount of rainfall received over Assam is 2.9 mm (-51% deficit) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Assam is above normal for week-1 and normal for week-2.

- Under prevailing weather, 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 potato and mustard crop is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Himachal Pradesh is above normal for week-1 and 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, spray Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) during clear weather condition.

Gujarat

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the management of *Helicoverpa* caterpillar in *rabi* pigeonpea, it is advised to spray Neem oil @ 50ml/15 litres or *Beuvariabassiana* @ 50 g/15 litres or Profenophos 50% EC @ 30ml/15 litres of water.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Andhra Pradesh is below normal for week-1 and week-2.

- Current weather condition is favorable for the incidence of fall army worm in maize (especially in Vizianagaram, Visakhapatnam, Chittoor, East Godavari, West Godavari and Ananthapuramu

districts). To control, spraying of Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water is recommended.

- Present weather conditions are also favorable for sucking pest incidence in groundnut in Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Kadapa, Chittoor, Ananthapuramu and Kurnool districts. To control, spray Dimethoate @ 2.0 ml or Imidacloprid @ 0.3 ml/litre of water.

Uttarakhand

Amount of rainfall received over Uttarakhand is 0.2 mm (-98% large deficit) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Uttarakhand is above normal for week-1 and below normal for week-2.

- Current weather condition is congenial for aphid attack in crops. If noticed, spray neem oil/bioagents or Chlorpyrifos @ 1ml per litre of water during non-rainy period.
- Under prevailing weather condition, it is advised for nursery sowing of summer vegetables like tomato, brinjal, chilli.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Chhattisgarh is no rainfall for week-1 and below normal for week-2.

- For the management of aphid infestation in mustard crop, it is advised to spray Imidacloprid 17.8 SL @ 250 ml/ha 2 to 3 times at an interval of 10-15 days as required.
- Due to increase in temperature, it is advised to provide irrigation in summer vegetable crops.

Jharkhand

Amount of rainfall received over Jharkhand is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- Due to high wind speed and increase in temperature, it is advised for frequent irrigation in field and vegetable crops.
- Farmers may go for sowing of green gram with recommended varieties after receiving good

rain.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over Madhya Pradesh is below normal for week-1 and week-2.

- Due to increase in temperature, a light irrigation is advised in the moisture deficit crop fields.
- Field preparation for sowing of *zaid* crops like summer soybean, mung, urd and vegetables is advised.

Rajasthan

Amount of rainfall received over East Rajasthan is 0.0 mm (-100% no rainfall) during 01 March 2021 - 05 March 2021. The extended range weather forecast (rainfall) provided for next two weeks (05 - 11 March 2021 and 12 - 18 March 2021) on rainfall over East Rajasthan is below normal for week-1 and week-2.

- Due to increase in temperature, farmers are advised for light irrigation in standing field crops and vegetables as per requirement.
- It is the optimum time for sowing of summer groundnut. Recommended improved varieties are TAG-24, DH-86, GG-2, TG-37A, Pratapraj groundnut.

Disclaimer:

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