



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 12 – 25 February 2021

Date of issue: 12 February 2021

Issued by

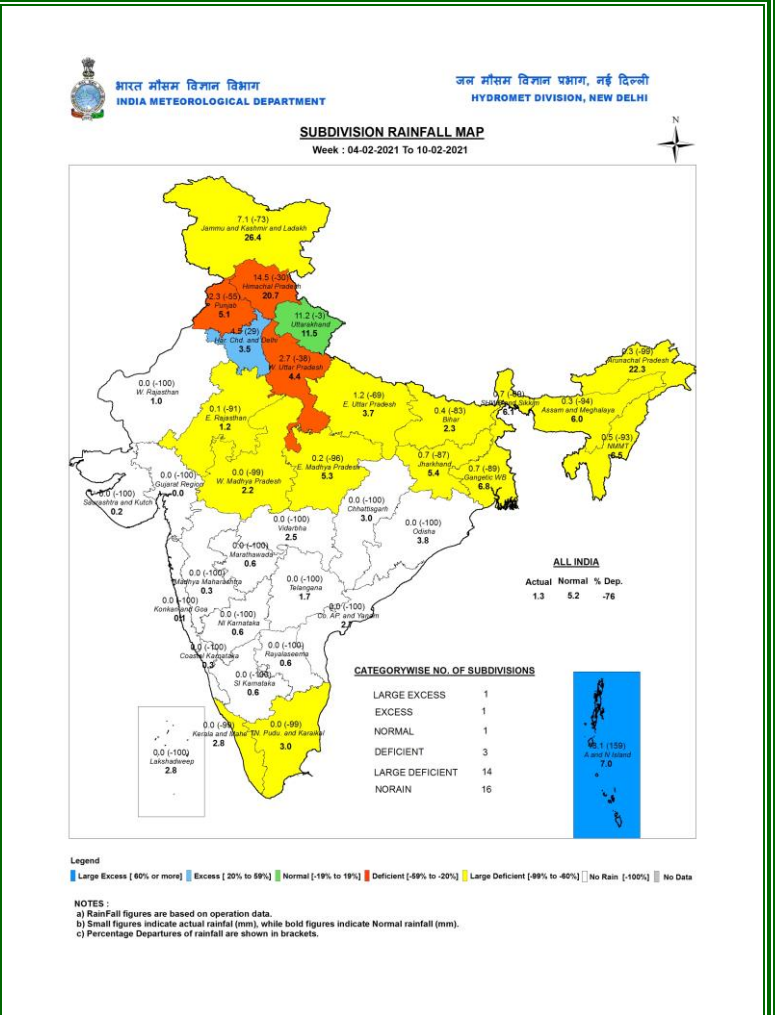
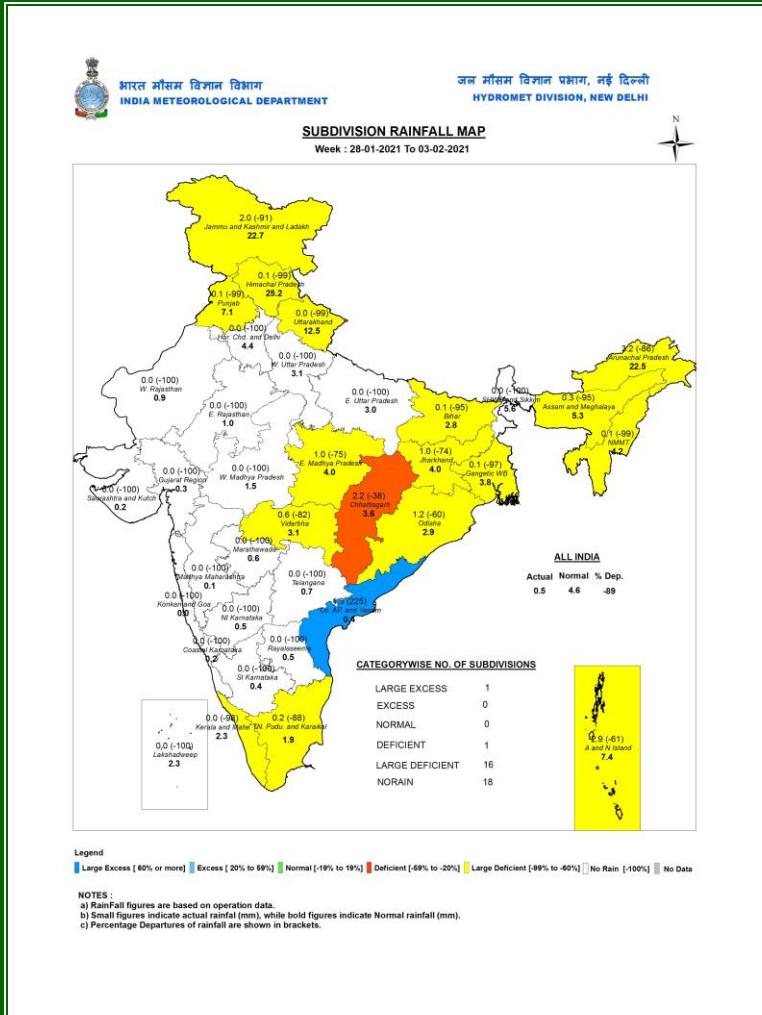
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (28th Jan. to 10th Feb., 2021)



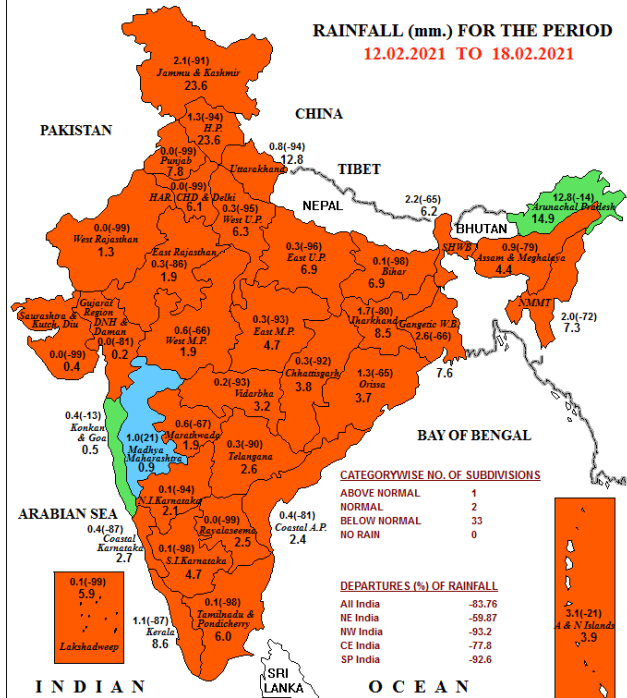
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, Haryana Chandigarh & Delhi, Coastal Andhra Pradesh & Yanam and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 10 Feb.) (12th to 25th Feb., 2021)

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Rainfall Forecast Map - Normal RF Based Categories

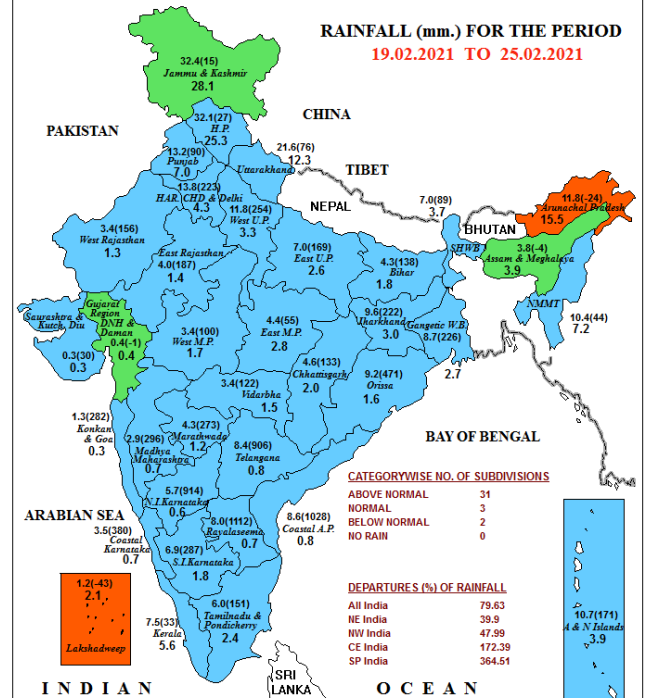


LEGEND: ■ ABOVE NORMAL [+20% OR MORE] ■ NORMAL [+19% TO -19%]
■ BELOW NORMAL [-20% TO -99%] ■ NO RAIN [-100%] ■ NO DATA

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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Rainfall Forecast Map - Normal RF Based Categories

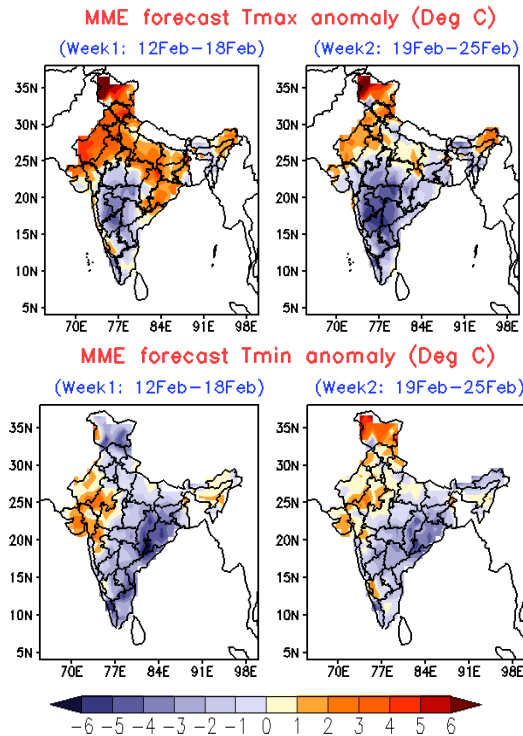


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NOTES:
 [a] Rainfall figures are based on MME Forecast data.
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (12.02.2021 to 18.02.2021):** Rainfall likely over southern part of Bay of Bengal and adjoining Sri Lanka and over some parts of Northeast India in week 1.
- **Week 2 (19.02.2021 to 25.02.2021):** In week 2, Western Disturbance associated rainfall likely over north India with some parts of eastern coastal region and northeast India will also get rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 10 Feb.)
(12th to 25th Feb., 2021)**



Maximum Temperature (Tmax)

- **Week 1 (12.02.2021 to 18.02.2021) and Week 2 (19.02.2021 to 25.02.2021):** The Tmax over the entire northern India, Northwest India, Northeast India and some eastern coastal states (Odisha, Coastal Andhra Pradesh) will experience above normal Tmax during week 1. The warming will also continue in week 2 over Northwest and Northern India, however, with negative anomalies over central and southern parts of India in week 1 & week 2.

Minimum Temperature (Tmin)

- **Week 1 (12.02.2021 to 18.02.2021) and Week 2 (19.02.2021 to 25.02.2021):** Warm anomalies over Northwest India in week 1 and week 2 with warming areas extended to northern parts in week 2. Thus, the night temperature likely to increase over north/Northwest India during week 1 & week 2. The eastern part and southern parts of India will have below normal Tmin during week 1 & week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 25 February 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 105.5 mm (706% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) is below normal for week-1 and above 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.
- Under prevailing weather conditions, there is a chance of nematode attack in banana. 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 138.5 mm (589% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) is below normal for week-1 and above normal for week-2.

- Prevailing weather condition 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 condition 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 18.5 mm (827% large excess), Marathwada is 3.0 mm (-42% deficit), Vidarbha is 0.8 mm (-94% large deficit) and Konkan region 5.6 mm (841% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) over Vidharbha, Marathawada is below normal, Madhya Maharashtra is above normal and Konkan is normal for week-1 and above normal over Madhya Maharashtra, Marathwada, Vidharbha and Konkan for week-2.

Marathwada

- For the management of pod borer in chickpea crop, it is advised to spray 5% NSKE or Quinalphos 25% EC @ 20 ml or Emamectin Benzoate 5% @ 4.5 g per 10 litres of water.
- If sucking pests in vegetable crops are noticed, it is advised to spray Pyriproxyfen 5% + Fenprothrin 15% @ 10 ml or Dimethoate 30% @ 13 ml per 10 litres of water.

Vidharbha

- For the management of mango hoppers, thrips, mites and powdery mildew in mango

inflorescence, it is advised to spray Dinocap 10 ml per 10 litres of water with gator pump.

- Under prevailing dry weather condition, it is advised for need based protective irrigation in vegetable crops.

Madhya Maharashtra

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

Konkan

- Due to the chances of increase in temperature, it is advised to provide irrigation to the newly planted mango orchard @ 30 litres of water twice in week (1 year old), twice in 15 days (2 years old) and twice in a month (3 years old).
- To protect the animals and poultry from heat, it is advised to sprinkle cold water on animals during the afternoon and keep the poultry under the shed.

Hisar

Amount of rainfall received over Hisar is 26.0 mm (21% excess) during 01 January 2021 - 12 February 2021. The extended range rainfall forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) over Hisar is below normal for week-1 and above normal for 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.
- Under prevailing cold 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 - 12 February 2021 over South Interior Karnataka is 26.6 mm (682% large excess) and North Interior Karnataka is 8.1 mm (101% large excess). The extended range weather forecast for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and above 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 termicides.
- To prevent birds from direct sunshine, it is advised to locate the poultry in such a way that long axis is in east-west direction.

Uttar Pradesh

Rainfall received during 01 January 2021 - 12 February 2021 over East Uttar Pradesh 1.4 mm (-92% large deficit) and West Uttar Pradesh is 15.9 mm (-22% deficit). The extended range weather forecast for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal for week-2.

Western Uttar Pradesh

- Due to the chances of rainfall, it is advised to postpone the irrigation in chickpea, vegetable pea and lentil crops.
- Due to cloudy weather, aphid attack may occur in mustard crops. If observed, spray Chlorpyrifos 20% EC @ 1.0 litre/ha or Monocrotophos 36% SL @ 500 ml/ha with 500-600 litres of water.

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 96.8 mm (-29% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Jammu is below normal for week-1 and 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 1.7 mm (-92% large deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over West Bengal is below normal for week-1 and above 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.
- Under prevailing weather, 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 1.2 mm (-94% large deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Odisha is below normal for week-1 and above 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 9.2 mm (-64% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Assam is below normal for week-1 and normal for week-2.

- 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 (-59% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Himachal Pradesh is below normal for week-1 and above normal for week-2.

- 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 chillies, tomato and brinjal crops in poly house is advised.

Gujarat

Amount of rainfall received over Gujarat is 2.5 mm (125% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Gujarat is below normal for week-1 and above normal for week-2.

- For the management of blight disease in tomato, it is advised to spray Mancozeb 75% WP @ 25 g/10 litres of water.
- For the management of thrips in chilli crop, it is advised to apply neem-based insecticide @ 20 to 40 ml in 10 litres of water.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 22.8 mm (385% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Andhra Pradesh is below normal for week-1 and above 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 38.5 mm (-38% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Uttarakhand is below normal for week-1 and above normal for week-2.

- To protect the fruit plants from frost, mulching in the soil around the main trunk is advised.
- Under prevailing weather, it is advised to prepare the fields for summer vegetables like tomato, capsicum and bhindi etc., in lower hills areas.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 2.2 mm (-86% large deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Chhattisgarh is below normal for week-1 and above normal for week-2.

- Due to cloudy weather, there is a chance of aphid attack in mustard crop. It is advised to spray Imidacloprid 17.8 SL @ 250 ml per ha for 2 to 3 times at an interval of 10-15 days. Under prevailing cloudy weather, 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 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Jharkhand is below normal for week-1 and above normal for week-2.

- Farmers may prepare pits and go for sowing of summer vegetable crops like sponge gourd, bottle gourd, pumpkin, water melon, musk melon etc.
- For the management of pod borer in chickpea, it is advised to spray Profenofos @ 2 ml per litre of water.

Bihar

Amount of rainfall received over Bihar is 0.6 mm (-96% large deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Bihar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, intercultural operations and light irrigation as per availability of soil moisture are advised in vegetable crops.
- Prevailing weather condition is highly favorable for infestation of late blight disease in potato crop. To control, spraying of Diathane M-45 or Redomil @ 1.5 g/litre of water is advised.

Punjab

Amount of rainfall received over Punjab is 13.2 mm (-57% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Punjab is below normal for week-1 and above normal for week-2.

- Prevailing weather is favourable for the spread and development of white rust in oilseed crops. It is advised to spray Ridomil Gold @ 250 g/ 100 litres of water per acre.
- Prevailing weather condition is ideal time for planting of deciduous fruit plants such as pear, grapes, fig and phalsa.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 1.7 mm (-93% deficit) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over Madhya Pradesh is below normal for week-1 and above normal for week-2.

- Due to cloudy weather condition, monitoring for aphid in lentil is advised.

Rajasthan

Amount of rainfall received over East Rajasthan is 15.6 mm (147% large excess) during 01 January 2021 - 12 February 2021. The extended range weather forecast provided for next two weeks (12 - 18 February 2021 and 19 - 25 February 2021) on rainfall over East Rajasthan is below normal for week-1 and above normal for week-2.

- Present weather condition is favorable for powdery mildew and leaf blight in opium poppy. To control, foliar spray of Propiconazole 0.2 ml/litre of water is advised.
- Incidence of powdery mildew in mustard is also expected in prevailing weather. To control, spray of Propiconazole or Tebuconazole @ 0.2 ml/litre of water 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 weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will 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 presented in this bulletin.