



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),
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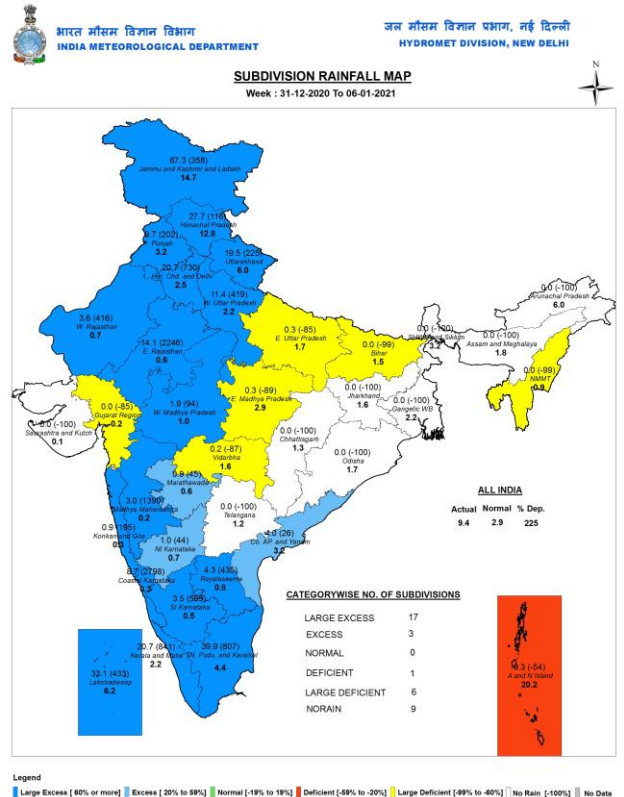
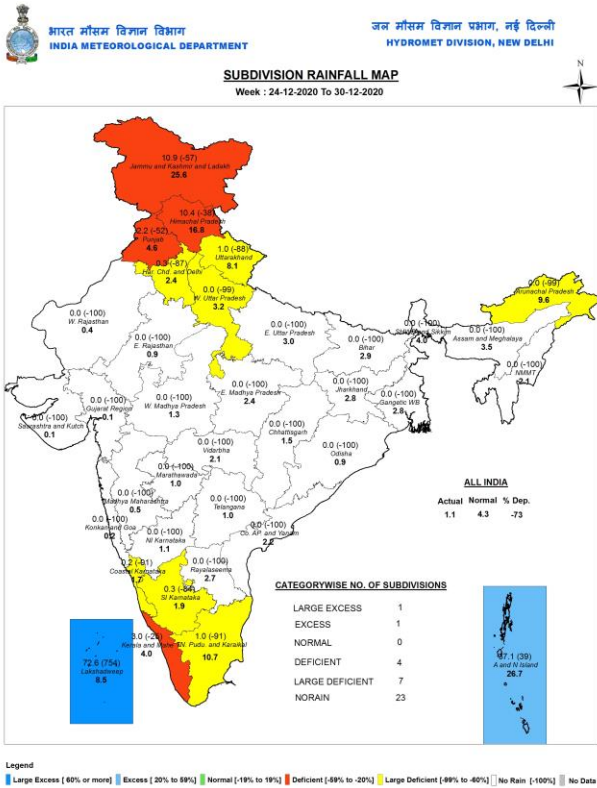
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**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(24th Dec. 2020 to 6th Jan., 2021)



- Normal or above normal rainfall occurred in both the weeks in Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir (UT), Ladakh (UT), Uttarakhand, Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, West and Uttar Pradesh, Rajasthan, West Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, Marathwada, Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Kerala & Mahe, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall / no rain occurred in both the weeks over rest of the country.

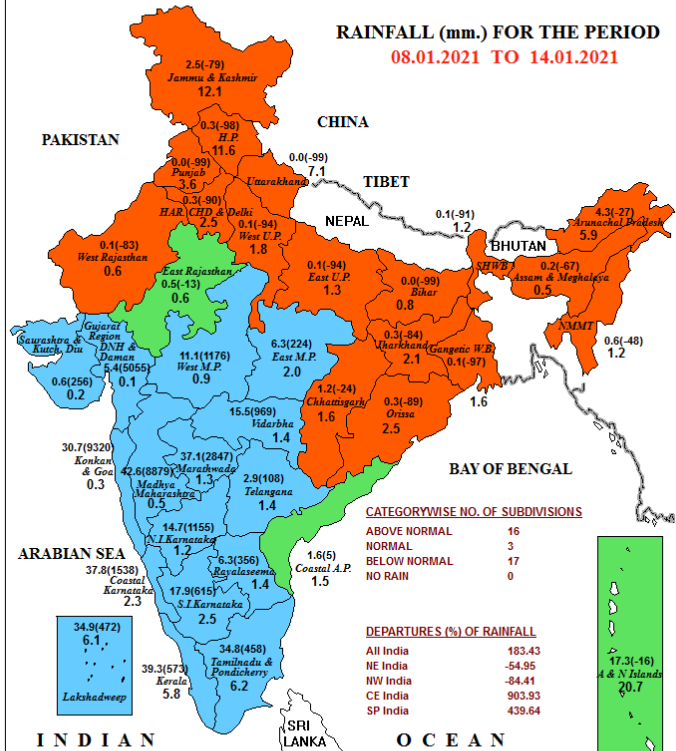
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 06 Jan.)

(8th to 21st Jan., 2021)

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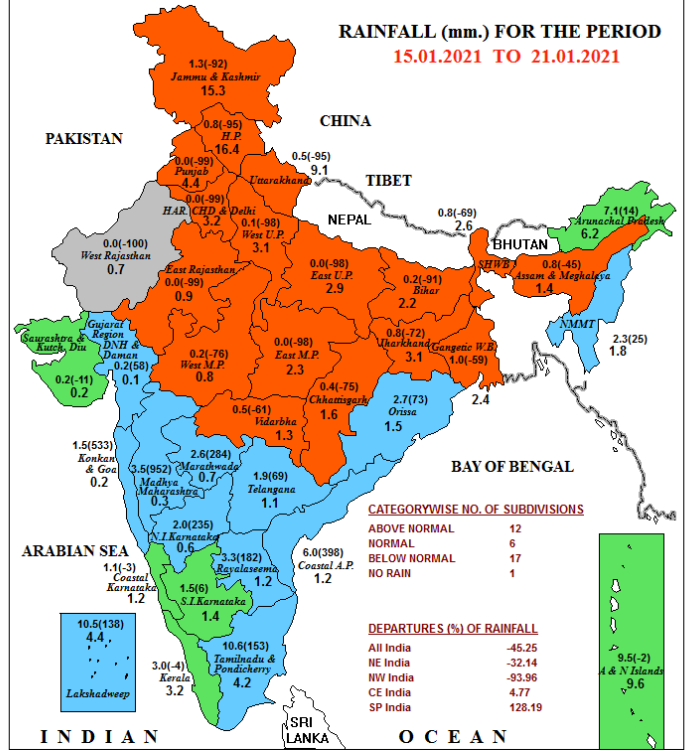
Rainfall Forecast Map - Normal RF Based Categories



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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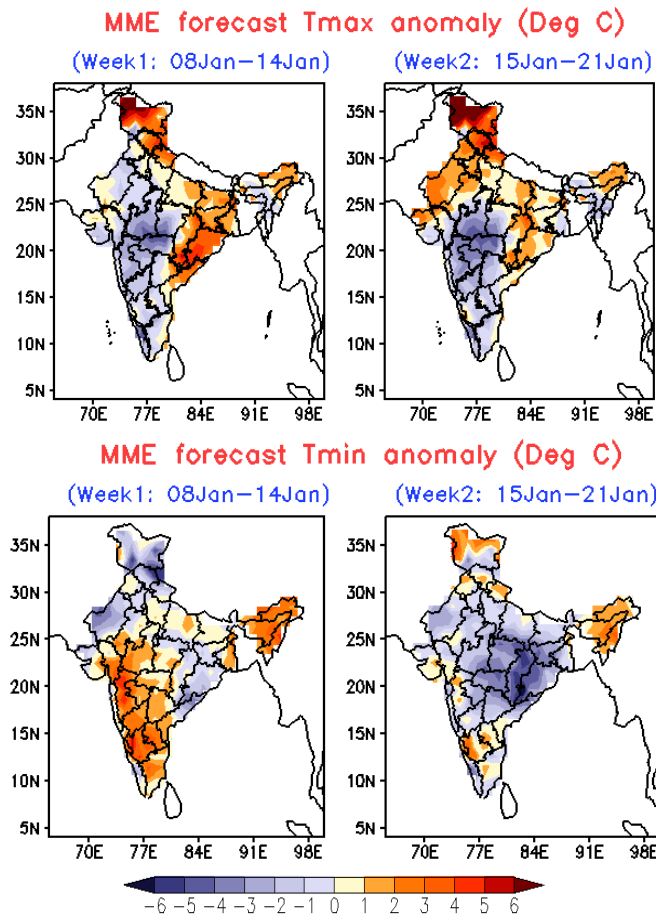
Rainfall Forecast Map - Normal RF Based Categories



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 (08.01.2021 to 14.01.2021):** South Peninsula along with Maharashtra and adjoining Madhya Pradesh and adjoining regions will remain active during week 1 with above normal rainfall over the region.
- **Week 2 (15.01.2021 to 21.01.2021):** South peninsula will remain slightly active during week 2 also.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 06 Jan.)
(8th to 21st Jan., 2021)**



Maximum Temperature (Tmax)

- **Week 1 (08.01.2021 to 14.01.2021) and Week 2 (15.01.2021 to 21.01.2021):** Above normal Tmax likely over eastern belt over Odisha, Chhattisgarh, Jharkhand, Bihar and adjoining region during week 1 and week 2. Extreme north India and Northwest India will have normal to above normal Tmax during week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (08.01.2021 to 14.01.2021):** Below normal Tmin likely over northern and north-western India during week 1.
- **Week 2 (15.01.2021 to 21.01.2021):** During week 2, more areas over central and eastern parts of India (Odisha, Chhattisgarh and east Madhya Pradesh), central and adjoining southern parts will have below normal Tmin.

Strategic Agricultural Planning based on rainfall during next two weeks till 21 January 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 70.4 mm (1135% large) during 01 January 2021 - 08 January 2021. The extended range weather forecast for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) is above normal for week-1 and 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 condition, there is a chance of green leaf hopper attack in bhindi. To control, it is advised to spray 2 g Thiamethoxam per 10 litres of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 59.9 mm (899% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable 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.
- Under the prevailing weather conditions, farmers are advised to monitor borer incidence in sorghum. If incidence is noticed, spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 8.7 mm (1647% large excess), Marathwada is 1.2 mm (5% excess), Vidharbha is 0.3 mm (-88% large deficit) and Konkan region 3.7 mm (1770% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) over Marathwada, Vidharbha, Madhya Maharashtra and Konkan is above normal for week-1 and below normal over Vidharbha and above normal over Marathwada, Konkan and Madhya Maharashtra for week-2.

Marathwada

- Due to cloudy weather condition, there may be a chance of fruit drop in citrus orchard. To manage, spray of Copper Oxychloride @ 20 g or Metalaxyl + Mancozeb @ 10 g per 10 litres of water is advised.
- For the management of aphids in safflower crop, it is advised to spray Dimethoate 30% @ 13 ml or Acephate 75% @ 10 g per 10 litres of water.

Vidharbha

- Under prevailing cold weather condition, it is advised to apply organic mulches in fruit crops

tree basins for thermal insulation to reduce cooling of soil surface.

- Due to decrease in minimum temperature, it is advised to keep the animals and poultry birds in closed shelter and provide straw mulch to protect from cold.

Madhya Maharashtra

- For the management of blight disease in onion, it is advised to spray Mancozeb @ 25 g or Chlorothalonil @ 20 g per 10 litres of water.
- To protect mango orchard from powdery mildew disease and hoppers, it is advised to spray Imidachloprid 17.8 SL @ 4 ml and 80% wettable Sulphur @ 25 g in 10 litres of water.

Konkan

- Due to the chance of cloudy and rainy weather condition, there is a possibility of incidence of hoppers and powdery mildew disease on flower bud stage in mango. To protect, spray Lambda cyhalothrin 5% EC @ 6 ml + Hexaconazole @ 5 ml or Wettable Sulphur 80% @ 20 g per 10 litres in water during clear weather.

Hisar

Amount of rainfall received over Hisar is 21.4 mm (664% large excess) during 01 January 2021 - 08 January 2021. The extended range rainfall forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) over Hisar is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to withhold the irrigation in wheat crop.
- Under prevailing cold conditions, it is advised to keep the animals under shed and provide clean and 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 January 2021 - 08 January 2021 over South Interior Karnataka is 20.6 mm (4027% large excess) and North Interior Karnataka is 3.6 mm (415% large excess). The extended range weather forecast for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal over South Interior Karnataka and above over North Interior Karnataka for week-2.

South Interior Karnataka

- Due to low night temperature and morning dew, there may be the chance of the pod borer incidence in redgram crop. To control, spraying of NPV 0.75 ml per litre of water or Indoxycarb 14.5 SC @ 0.5 ml/litre or Spynosad 45 SC @ 0.15 ml/litre or Chloropyrifos 20 EC @ 2ml/litre is advised.

- Due to rainy weather condition, it is advised to postpone sun drying, cleaning and winnowing of harvested crop.

North Interior Karnataka

- Under prevailing weather conditions, harvesting and sun drying of pigeon pea crop is advised.
- It is advised to vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia.

Uttar Pradesh

Rainfall received during 01 January 2021 - 08 January 2021 over East Uttar Pradesh 0.3 mm (-89% large deficit) and West Uttar Pradesh is 12.7 mm (354% large excess). The extended range weather forecast for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

Western Uttar Pradesh

- Farmers are advised to irrigate their fields in timely as well as mid-sown *rabi* crops as per need.
- To protect the vegetable crops from frost, it is advised to spray 2% Urea or to provide light irrigation.

Eastern Uttar Pradesh

- Under prevailing dry and cold weather condition, straw mulching and intercultural operations are advised in the field to maintain the moisture.

Jammu

Amount of rainfall received over Jammu is 70.4 mm (346% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to the decrease in minimum temperature, farmers are advised to go for sowing of very late sown wheat varieties viz., Raj 3077, HD-2285, Raj-3765 and HD-2402.
- Prevailing weather condition is congenial for collar rot and root rot disease in chickpea crop. It is advised to rogue out the affected plants and drench the affected patches of the field with Thiram or Captan @ 2g/litre of water.

West Bengal

Amount of rainfall received over West Bengal is 0.0 mm (-100% deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over West Bengal is below normal for week-1 and week-2.

- Due to cold weather conditions, it is advised to protect the seedlings of boro rice by covering the

nursery bed with polythene and keep the stagnant water in the nursery bed especially during night.

- Prevailing weather condition is also congenial for white streak disease in pulses. To control, it is advised to apply Sulfex or Dinocap @ 2.5 g per litre of water.

Odisha

Amount of rainfall received over Odisha is 0.0 mm (-100% deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Odisha is below normal for week-1 and above normal for week-2.

- Due to decrease in temperature, mulching in vegetable seedling is advised to avoid cold injury.
- To manage pod borer in pigeon pea crop, it is advised to spray Chlorpyrifos 50% + Cypermethrin 5% EC @ 400 ml/acre or Profenophos 50% EC @ 400 ml/acre.

Assam

Amount of rainfall received over Assam is 0.0 mm (-100% deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Assam is below normal for week-1 and week-2.

- Prevailing weather condition is congenial for late blight disease in potato crops. It is advised to spray Ferbam or Nabam in the recommended dose as a protective measure.
- For the management of caterpillars and leaf eaters in cole crops, spraying of Malathion 50 EC @ 1.5ml/litre of water is advised.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 30.3 mm (90% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Due to higher chances of frost occurrence, farmers are advised to protect the crop by applying light irrigation and mulching in crops during evening hours.
- Farmers are advised to protect the newly born calves and milch animals from cold and provide dry bedding to animals.

Gujarat

Amount of rainfall received over Gujarat is 0.3 mm (normal rainfall) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Gujarat is above normal for week-1 and week-2.

- For the management of whitefly in tomato, it is advised to spray Neem seed extract 5% @ 500

ml or Neem oil 50 ml or Difenthiuron 50 WP @ 16 g in 10 litres water.

- Due to cold weather condition, it is advised to protect the newly born calves from cold wind and keep the animals indoor during night.

Punjab

Amount of rainfall received over Punjab is 9.8 mm (166% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Punjab is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for transplanting the seedling of onion in fields.
- For the management of late blight disease in potato, it is advised to spray Indofil M-45/ Mass M-45/ Markzeb/ Antracol/ Kavach @ 500-700 g or Copper Oxychloride 50 WP/Mark copper @ 750- 1000 g/acre in 250-350 litres of water at 7 days interval.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 21.9 mm (2643% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- Prevailing weather conditions are favourable for incidence of root rot and leaf spot diseases in *rabi* groundnut in Srikakulam, Chittoor, Kadapa and Vizianagaram districts. To control, spraying of Hexaconazole @ 2ml or Carbendazim @ 1 g + Mancozeb @ 2g/litre of water is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 27.4 mm (247% large excess) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- To protect the crops from frost/cold injury, it is advised to apply light irrigation in the evening and cover the young plants with gunny bags or straw.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 0.0 mm (-100% deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- Due to the chance of cloudy weather conditions, there may be infestation of pod borer in pigeon pea. It is advised to spray Indoxacarb @ 300 g/ha dissolved in 500 litres of water.

- For the management of brown spots in groundnut crop, it is advised to spray Copper oxichloride @ 3 g per litre of water.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 0.3 mm (-90% large deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over East Madhya Pradesh is above normal for week-1 and below normal for week-2.

- Due to cloudy weather condition, there may be chance of aphid attack in lentil. Monitoring and application of insecticide is advised.
- Due to light rainfall condition, it is advised to place rice surface litter on the floor of poultry shed to prevent from low temperature and humidity.

Bihar

Amount of rainfall received over Bihar is 0.0 mm (-99% large deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Bihar is below normal for week-1 and week-2.

- Regular monitoring of pod borer in chickpea is advised. If infestation found, install Pheromone trap @ 3-4 traps per acre or spray Quinalphos 25 EC/Novaluron 10 EC @ 1.0ml/litre of water.
- For the management of cutworm in potato crop, spraying of Chlorpyrifos 20 EC @ 2.5 kg/ha in 1000 litres of water is advised.

Jharkhand

Amount of rainfall received over Jharkhand is 0.0 mm (-100% large deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over Jharkhand is below normal for week-1 and week-2.

- Due to decrease in temperature, intercultural operations and smoking around the field is advised to avoid the adverse effect of low temperature on different crops/vegetables.

Rajasthan

Amount of rainfall received over East Rajasthan is 14.8 mm (1133% large deficit) during 01 January 2021 - 08 January 2021. The extended range weather forecast provided for next two weeks (08 - 14 January 2021 and 15 - 21 January 2021) on rainfall over East Rajasthan is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of thrips in timely sown onion crop. To manage, spraying of Diethane M-45 @ 3 g per litre of water with sticky material (Tipol 1.0 g

/litre) is advised.

- For the management of pod borer in the gram crop, installation of Pheromone trap @ 7-10 traps per acre 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.