



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 14 - 27 January 2022

Date of issue: 15 January 2022

Issued by

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

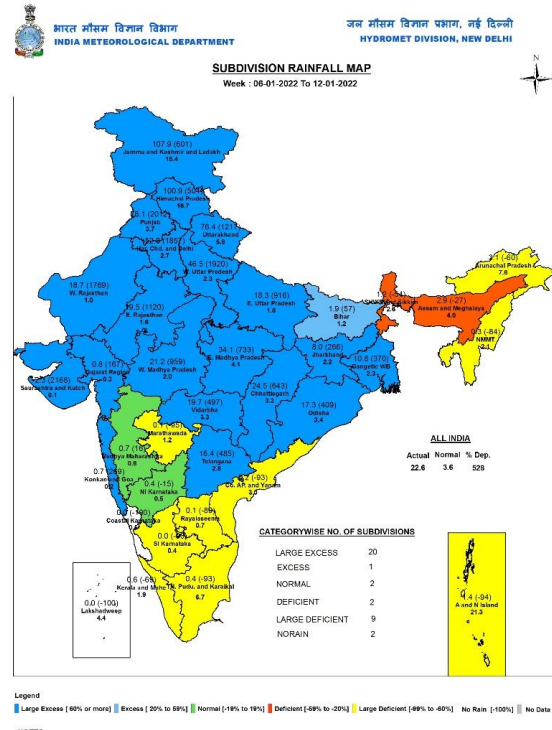
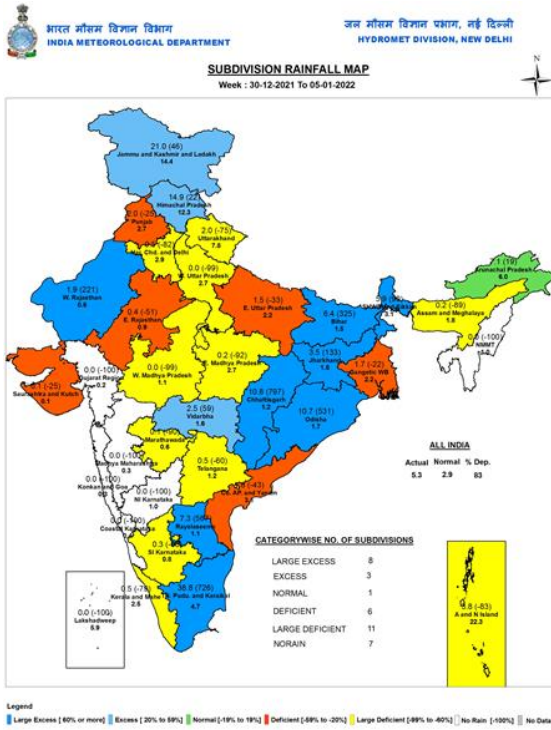
&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall

(30th December, 2021 to 12th January, 2022)



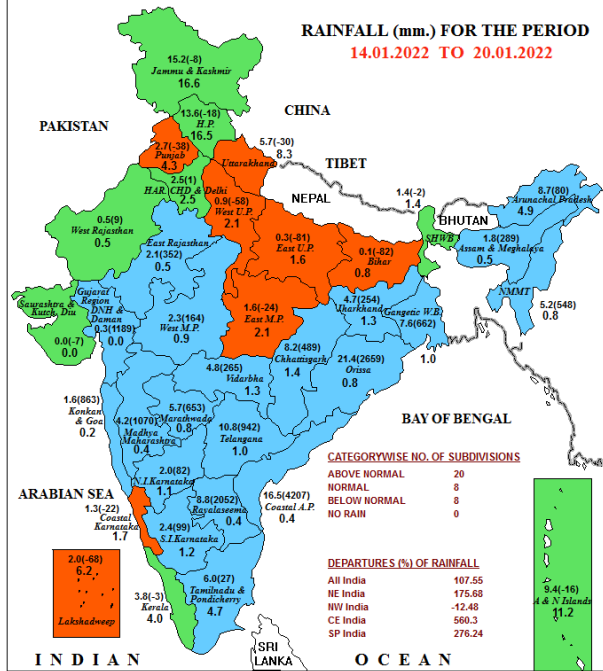
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Odisha, Bihar, Jharkhand, West Rajasthan, Vidarbha and Chhattisgarh.
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, East Rajasthan, Gujarat, Madhya Pradesh, Konkan & Goa, Madhya Maharashtra, North Interior Karnataka, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Telangana, Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 12 January) (14th to 27th January, 2022)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

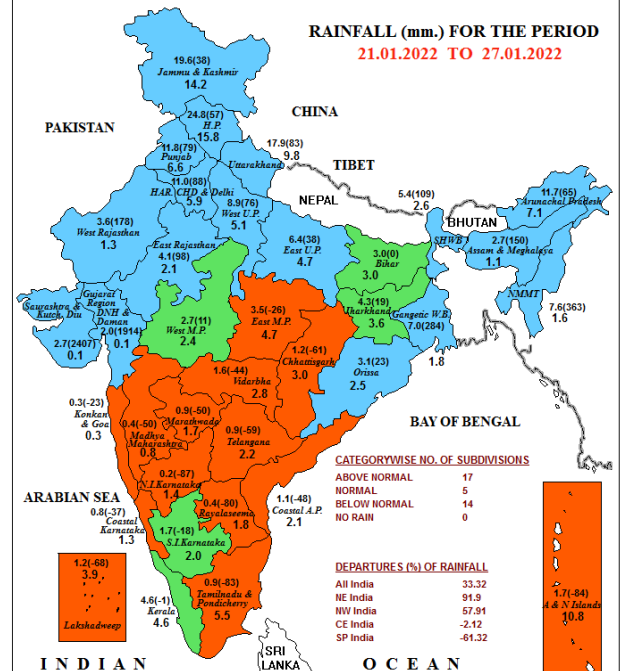


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

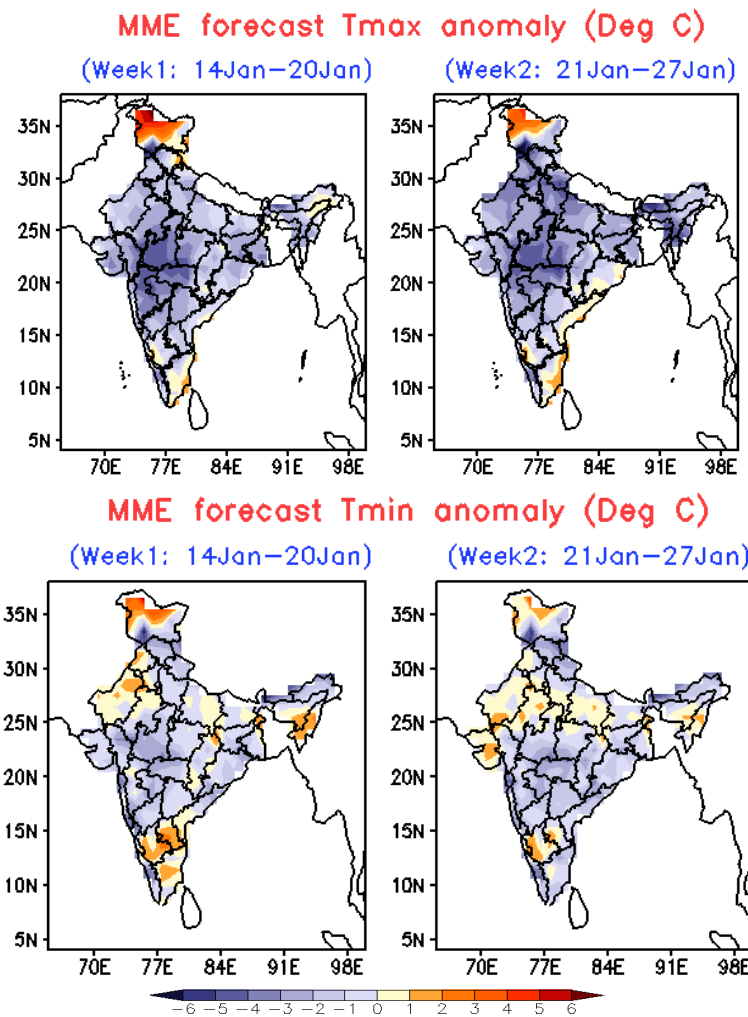


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

- **Week 1 (14.01.2022 to 20.01.2022) and Week 2 (21.01.2022 to 27.01.2022):** Some parts of eastern coastal states (Odisha, Chhattisgarh, Andhra Pradesh etc) will get rainfall in week 1. Western Disturbance associated rainfall is also likely over some parts of extreme north India during the period.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 12 January, 2022)
(14th to 27th January, 2022)**



Maximum Temperature (Tmax)

- **Week 1 (14.01.2022 to 20.01.2022) and Week 2 (21.01.2022 to 27.01.2022):** Mostly below normal Tmax likely over most parts of India in week 1 and week 2 except some isolated regions of extreme north India, eastern coastal states and isolated regions over northeast India during week 1.

Minimum Temperature (Tmin)

- **Week 1 (14.01.2022 to 20.01.2022) and Week 2 (21.01.2022 to 27.01.2022):** Slight above normal Tmin likely over north India and adjoining central India in week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 27 January 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1.2 mm (-73% large deficit) during 01 - 14 January 2022. The extended range weather forecast (rainfall) for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) is normal for week-1 and week-2.

- Due to increase in atmospheric temperature, there is a chance for the attack of sucking pests in vegetables. They can be controlled by applying 2% neem oil emulsion once in a week or by spraying *Lecanicillium lecanii* @ 20 g per litre of water.
- Due to prevailing dry weather condition, there is a chance of white fly attack in tomato. To manage it is advised to apply 2% neem oil + garlic emulsion under the leaf surface at 10 days intervals. If the attack is severe, apply Thiamethoxam @ 4 g per 10 litres of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 30 mm (174% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) is above normal for week-1 and below normal for week-2.

- Current weather condition is favorable for yellow mosaic virus and powdery mildew incidence in pulses. To prevent, it is advised to spray NSKE 5% or Neem oil 3% twice at 10 days interval from initial disease appearance.
- Prevailing weather conditions are congenial for shoot fly incidence in sorghum. Farmers are advised to spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 0.7 mm (-13% deficit); Marathwada is 0.3 mm (-85% large deficit); Vidarbha is 24 mm (367% large excess) and Konkan region is 2.1 mm (431% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is above normal for week-1; During week-2, below normal rainfall is expected over Konkan, Madhya Maharashtra, Marathwada and Vidarbha regions.

Vidarbha

- Under prevailing weather condition, it is advised to take on remaining picking of burst cotton bolls immediately and store the harvested produce safely.
- Under current weather condition, it is advised to harvest early sown/early duration mature pigeon pea as early as possible and store the harvested crop at safe place.

Madhya Maharashtra

- For the management of leaf curl in chilli, spraying of Dimethoate @15 to 20 ml per litre of water is advised.
- To avoid fruit drop in mango, application of Imidacloprid @ 1 ml per litre of water is recommended.

Marathwada

- Due to cloudy weather condition, infestation of aphids may occur in safflower. For management, it is advised to spray Dimethoate 30% @ 13 ml or Acephate 75% @ 15 g per 10 litres of water.
- For management of stem borer and fall armyworm in *rabi* sorghum crop, it is advised to spray Thiamethoxam 12.6 % + Lambda – cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 litres of water.

Konkan

- Due to rainfall, high humidity and low temperature weather condition, there is possibility of anthracnose and powdery mildew disease on mango inflorescence. For protection, it is advised to spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 litres of water along with insecticides given as per blossom protection schedule.
- To protect the poultry birds from low temperature, it is advised to provide curtains and electric bulbs during night time.

Hisar

Amount of rainfall received over Hisar is 53 mm (967% large excess) during 01 - 14 January 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Hisar is normal for week-1 and above normal for week-2.

- To protect the vegetable crops from frost and low temperature, it is advised to apply need-based irrigation in evening hours.
- Due to prevalence of variable weather, farmers are advised to keep the animal under sheds 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 - 14 January 2022 over South Interior Karnataka is 0.3 mm (-70% large deficit) and North Interior Karnataka is 0.4 mm (-61% large deficit). The extended range weather forecast (rainfall) for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and; normal over South Interior Karnataka and below normal over North Interior Karnataka week-2.

South Interior Karnataka

- Due to sudden drop in minimum temperature affects the floral induction in Mango. To manage it is advised to spray Paclobutrazol as plant growth retardant which restrict the vegetative growth.
- To protect the pulse grains from storage pests it is advised to apply oils of Castor/ linseed/honge/ neem oil @ 3-5 ml per kg of grains.

North Interior Karnataka

- Under clear weather condition, harvesting/threshing and drying of pigeon pea and other crops, plucking of cotton and chili is advised with all precautionary measures.
- Farmers are advised to vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic Septicaemia*.

Uttar Pradesh

Rainfall received during 01 - 14 January 2022 over East Uttar Pradesh is 20 mm (445% large excess) and West Uttar Pradesh is 47 mm (933% large excess). The extended range weather forecast (rainfall) for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal week-2.

Eastern Uttar Pradesh

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

Jammu

Amount of rainfall received over Jammu is 128 mm (298% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Jammu is normal for week-1 and; above normal for week-2.

- Due to the rain in past week, it is advised to drain out excess rainwater from the mustard, wheat and all *rabi* crop fields.
- Prevailing temperature is congenial for dieback, gummosis in citrus. To manage it is advised to spray Copper oxychloride @ 3g/litre.

Assam

Amount of rainfall received over Assam is 13 mm (121% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Assam is above normal for week-1 and week-2.

- Due to occurrence of light rainfall and cloudy weather during the past week in many parts of the state; there may be chance for occurrence of late blight disease in the potato crop. To protect, it is advised to spray Ferbam or Nabam in the recommended dose as a protective measure.
- To protect the banana bunches from low temperature stress, it is advised to cover them by white polythene bags. Bagging of bunches with muslin cloth or polyethylene may also be followed to

protect the crop from fruit scaring beetle.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 33 mm (563% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Chhattisgarh is above normal for week-1 and week-2.

- Due to the forecast of rainfall in coming week, farmers are advised to make proper arrangements for drainage in the vegetable crops.
- For the management of aphid insect in mustard crop, it is advised to spray Imidacloprid 17.8 SL @ 250 ml per hectare, 2 to 3 times at an interval of 10-15 days as required.

Gujarat

Amount of rainfall received over Gujarat is 0.8 mm (33% excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Gujarat is above normal for week-1 and week-2.

- Due to cloudy weather condition, monitoring of pod fly and pod borers in pigeon pea crop is advised. If infestation observed, spray Quinalphos or Profenofos @ 20 ml/10 litres of water for control of pod fly and Spinosad 4 ml or Emamectin benzoate @ 7 g/10 litres of water for the control of pod borer.
- To protect the animals from sudden drop in temperature, it is advised to keep animals in a covered shed area during the night.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 116 mm (278% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Himachal Pradesh is normal for week-1 and above normal week-2.

- For the successful cultivation of mushrooms, it is advised to maintain room temperature 25 – 28 °C and relative humidity around 80 - 85%.
- Under prevailing weather condition, it is advised to prepare the pits for planting the winter plants like pecan nut, walnut, almond, plum and peach.

West Bengal

Rainfall received during 01 - 14 January 2022 over Gangetic West Bengal is 14 mm (194% large excess) and Sub-Himalayan West Bengal is 5 mm (-16% deficit). The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Gangetic West Bengal is above normal and Sub-Himalayan West Bengal is normal for week-1 and; both are above normal for week-2.

- For preventive measure of late blight in potato spraying of Mancozeb or Chlorothalonil or Copper Oxychloride may be useful

Odisha

Amount of rainfall received over Odisha is 32 mm (467% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Odisha above normal for week-1 and week-2.

- Due to rain in past week, there is a chance of wilt disease in vegetable crops. To manage, it is advised to drench the root zone of vegetable crops with a solution of 1.5g Streptocycline and 20g Metalaxyl 8% + Mancozeb 64% WP mixed in 10 litres of water.
- To manage mites in chilli, it is advised to spray Ethion 50% EC @ 600 ml/acre or Spiromesifen 22.9% SC @ 200 ml/acre or Propargite 57 % EC @ 600 ml/acre.

Uttarakhand

Amount of rainfall received over Uttarakhand is 78 mm (500% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Uttarakhand is below normal for week-1 and above normal for week-2.

- In view of ground frost, it is advised to protect the vulnerable crops from frost damage by mulching between rows in crops like potato, garlic etc.
- To save the animals from the cold, proper arrangement in the animal shed is advised and feed them optimum quantity of mustard oil & jaggery for maintain body temperature and also provide lukewarm water for drinking.

Punjab

Amount of rainfall received over Punjab is 80 mm (1113% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Punjab is below normal for week-1 and; above normal for week-2.

- To protect potato crop from late blight, it is advised to spray Indofil M-45/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.
- Mulching is advised in vegetable crops i.e. cauliflower, spinach, fenugreek, coriander, radish, turnip, pea, tomato, brinjal, chilli and capsicum to reduce heat loss from the surface.

Bihar

Amount of rainfall received over Bihar is 6.2 mm (122% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Bihar is below normal for week-1 and normal for week-2.

- Regular monitoring is advised against infestation of powdery mildew disease in pea crop. Farmers are also advised to spray Karathane @ 1 ml per litre of water or Sulfex @ 3g per litre of water, if infestation is found high.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 34 mm (402% large excess) during 01 - 14 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (14 - 20 January 2022 and 21 - 27 January 2022) over Madhya Pradesh is below normal for week-1 and week-2.

- Prevailing weather condition is congenial for the incidence of mealy bug, particularly in mango and guava trees. Proper monitoring is advised and spray chemicals as per the recommendations.

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.