



# **National Agromet Advisory Services Bulletin**

# Date of issue: 13 January 2023

based on

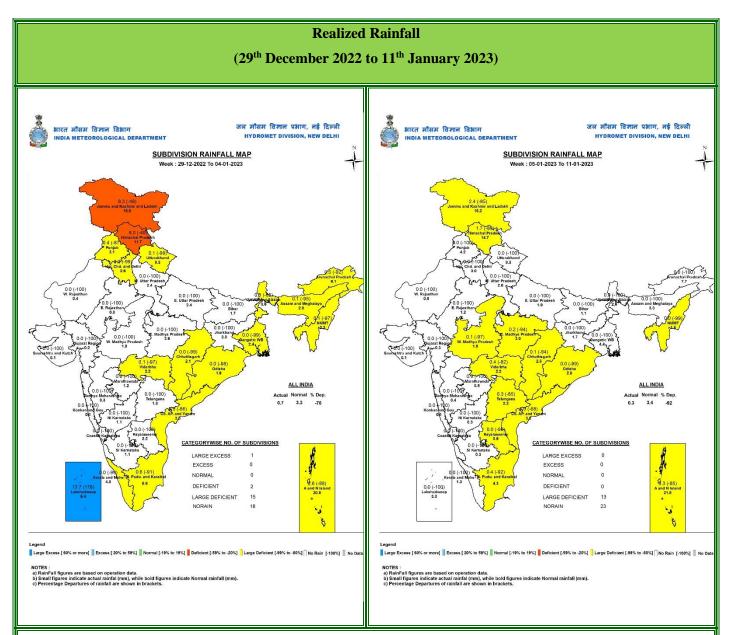
# **Extended Range Weather Forecast (ERFS)**

Validity: 13 - 26 January 2023

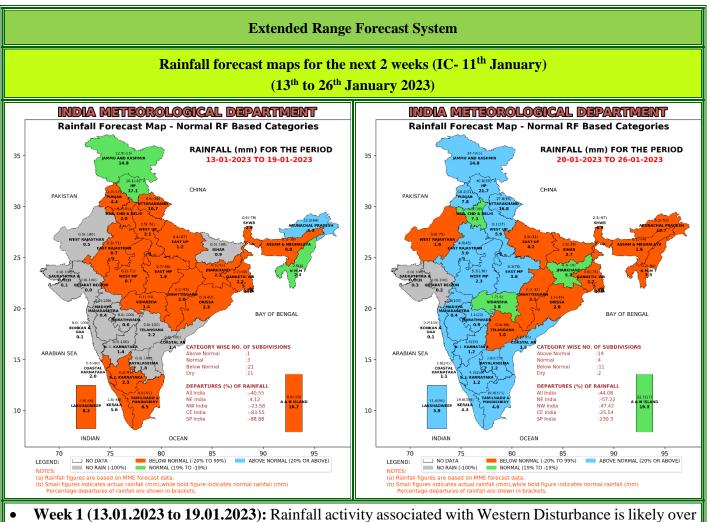
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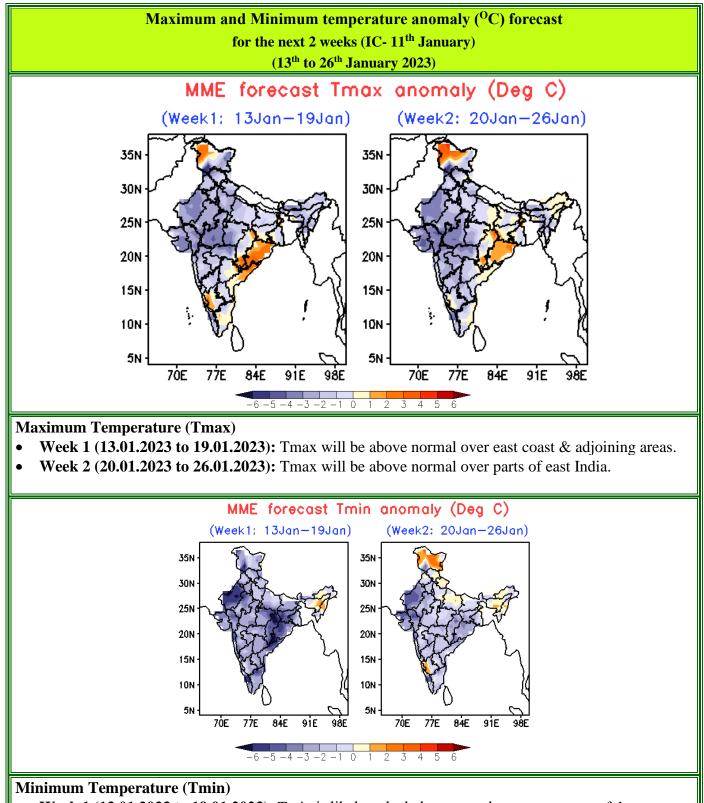
#### Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)



- Normal or above normal rainfall occurred in both the weeks in **none** of the States & UTs.
- Normal or above normal rainfall occurred in either of the two weeks in Lakshadweep.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.



- Week I (13.01.2023 to 19.01.2023): Rainfall activity associated with Western Disturbance is likely over extreme north India.
- Week 2 (20.01.2023 to 26.01.2023): Higher rainfall activity is likely over north India and parts of southern Peninsula.



- Week 1 (13.01.2023 to 19.01.2023): Tmin is likely to be below normal over most parts of the country, especially northwest India and east central parts of India.
- Week 2 (20.01.2023 to 26.01.2023): Tmin is likely to be below normal over most parts of the country, especially northwest India.

#### Strategic Agricultural Planning based on rainfall till 19 January 2023

# **Agromet Advisories**

#### Uttar Pradesh

No rainfall received over East Uttar Pradesh and 0.4 mm of rainfall received over West Uttar Pradesh (-92% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; below normal over East Uttar Pradesh and above normal over West Uttar Pradesh for week-2.

#### Western Uttar Pradesh

- To prevent the flower-drop in pulses due to frost, it is advised to spray the crop with Thiourea @ 500 ppm (500 g in 1000 litre water) and repeat the spray after 15 days if low temperature conditions persist/recurs.
- To prevent the damage in onion nursery due to cold wave, farmers are advised to cover the nursery with plastic mulches that increase heat transfer into the soil improve heat storage and hence provide better freeze protection.

### Eastern Uttar Pradesh

• Farmers are advised to protect the animals from the cold wave by keeping them in shed with close window and doors in night and also provide the balance diet to animals with 50 grams of mineral powder and 20 grams of salt daily. Feed the animals by providing dry fodder and green fodder.

#### Punjab

0.4 mm (-93% large deficit) of rainfall received over Punjab during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023) and 20 - 26 January 2023) over Punjab is below normal for week-1 and above normal for week-2.

- Due to the cold wave, there is no significant damage observed in crops. If needed, farmers are advised to provide light and frequent irrigations to protect the crop from cold wave.
- To reduce the heat loss from the surface, mulching is advised in vegetable crops like cauliflower, radish, turnip, pea, tomato, brinjal, chilli and capsicum.

### Himachal Pradesh

8.2 mm (-68% large deficit) of rainfall received over Himachal Pradesh during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) over Himachal Pradesh is normal rainfall for week-1 and above normal for week-2.

• In some parts of the state, particularly in Una district, cold wave is prevailing and it caused damage to the wheat and other crops growing in the field. To protect these crops farmers are advised for frequent and light irrigations. Also the crops can be saved by producing smoke in the fields by burning vegetative material.

• Due to sharp decline in the temperature over the past few days which may result in the incidence of frost causing adverse effect on horticultural crops. Farmers are advised to cover the small horticulture plants with grass to avoid cold paralysis.

# Haryana

The amount of rainfall received over Hisar was 0.1 mm (-97% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and normal for week-2.

- Due to decrease in low night temperature, farmers are advised to apply the light irrigation to vegetable crop and newly planted fruit crops to avoid the impact of low temperature.
- Top protect the animals from cold temperature, keep the animal under shed and provide dry and clean bedding during night.

# Bihar

No rainfall received over Bihar during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is no rainfall for week-1 and below normal for week-2.

- Due to decrease in low night temperature, farmers are advised to apply the light irrigation to vegetable crop and newly planted fruit crops to avoid the impact of low temperature.
- Top protect the animals from cold temperature, keep the animal under shed and provide dry and clean bedding during night.

# Jharkhand

No rainfall received over Jharkhand during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and normal for week-2.

- Due to prevailing low temperature, it is advised to irrigate the standing crops to maintain the moisture level as moisture keeps the soil relatively warm and protects it from frost.
- To protect cold sensitive crops like mustard, potato, gram, lentils, late leafy vegetables, brinjal, capsicum, tomato from frost in pre-flowering stage, it is advised to spray Thiourea @ 5 g per 10 liters of water.
- To protect the young saplings of garden trees from cold injury, it is advised to cover them with polythene or paddy straw.

# Assam

The amount of rainfall received over Assam was 0.1 mm (-99% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and week-2.

- As the night temperature recorded below the 10 °C during last week, which is not favourable for germination of the maize seed. Therefore, farmers are requested to postpone the sowing until the night temperature becomes favourable for the germination of maize seed.
- Due to the prevailing low night temperature, it is advised to provide artificial heating in the poultry houses using electric bulb or heaters. In case of lacrimation and swelling of the head, treat the fowl with sulphur drugs after proper consultation with local veterinarian.
- To protect the banana bunches from low temperature stress, it is advised that to cover them with white polythene bags.

# Uttarakhand

The amount of rainfall received over Uttarakhand was 0.8 mm (-95% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and above normal for week-2.

• To protect the animals from low temperature, it is advised to provide them dry bedding and proper arrangement of the shed and also provide lukewarm water with the addition of common salt to the animal.

# Jammu

The amount of rainfall received over Jammu was 16 mm (-44% deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) over Jammu is normal for week-1 and; above normal for week-2.

- To protect the mustard crop from low temperature/ frost, it is advised to create smoggy condition around the mustard field to increase temperature of surroundings.
- It is advised to provide thatching to young horticultural and floricultural plants to protect them from low temperature.

# Tamil Nadu

The amount of rainfall received over Tamil Nadu was 0.4 mm (-95% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and above normal for week-2.

• Prevailing weather conditions are congenial for fusarium wilt disease incidence in cotton. For the management, it is advised to apply heavy doses of farm yard manure or other organic manures @ 100t/ha.

#### Kerala

No rainfall received over Kerala during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition there is a chance of thrips infestation in chilli. For management, it is advised to apply 2% Neem oil garlic emulsion or spray 2 g Thiamethoxam per ten litres of water.
- For the management of coffee berry borer, farmers are advised to spray Quinalphos (0.05%) 400 ml in 200 liters of water.

# Maharashtra

No rainfall over Madhya Maharashtra, Marathwada and Konkan region and 0.5 mm (-90% large deficit) over Vidarbha was recorded during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is no rainfall over Madhya Maharashtra, Marathwada and Konkan and below normal over Vidarbha for week-1 and; above normal over Konkan, Madhya Maharashtra, Marathwada and normal over Vidarbha for week-2, respectively.

### Vidarbha

- To protect the crops from cold weather, it is advised for application of organic mulches in tree basins/soil surface, covering of nursery and young fruit plants with thatches of straw, creating air blanket of smoke in orchards by burning dried weeds/wood etc., and light irrigation during evening hours.
- During cold weather, keep farm animals in closed shelter and take special care of young cattle to protect from cold. Shelter floor should be covered with straw litter which provides thermal mulch.

# Marathwada

- To reduce the impact of fall in minimum temperature on different standing crops, it is advised to provide light irrigation during night time.
- Due to cloudy weather and fog during last week, infestation of aphids may be observed in safflower crop. For management, it is advised to spray of Dimethoate 30% @ 13 ml or Acephate 75 % @ 10 g per 10 litres of water.

# Konkan

- Due to forecast of drop in minimum temperature, to encourage the flowering in mango which is in bud bursting stage, it is advised to spray 1 % Potassium nitrate @10 g per litres of water.
- Due to fall in minimum temperature, provide irrigation to nursery, new fruit crop plantation and vegetable crops during evening hours.

• Protect the poultry birds from low temperature by providing curtains and electric bulbs during night time.

### Madhya Maharashtra

- Prevailing cold weather and dew may favour for the chikta/sugary disease in jowar. To protect, spraying of Rogar @ 20 ml per 10 litres of water is advised.
- Spraying of 1% KNO<sub>3</sub> is advised under moisture stress condition in *rabi* crops.

# Odisha

The amount of rainfall received over Odisha was 0.1 mm (-99% deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) over Odisha is below normal for week-1 and; week-2.

- Prevailing fog condition may increase the infestation aphid in tomato. To control aphids, need based spraying of neem oil formulation @ 600ml per acre or Flonicamid @ 60 g per acre is recommended.
- Cover the recently planted cole crops with paper pockets during night time to avoid low

# Karnataka

No rainfall received during 01 - 13 January 2023 over South Interior Karnataka, North Interior Karnataka and Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal over Coastal Karnataka and South Interior Karnataka and no rainfall over North Interior Karnataka for week-1 and; above normal over North Interior Karnataka, Coastal Karnataka and South Interior Karnataka for week-2.

# South Interior Karnataka

- As the sudden drop in minimum temperature may affect the floral induction in mango, spray Paclobutrazol as plant growth retardant which restrict the vegetative growth.
- To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night. The bedding/hay in the animal sheds must be kept dry and changed/aired every day.

# Chhattisgarh

The amount of rainfall received over Chhattisgarh was 0.1 mm (-97% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) over Chhattisgarh is below normal for week-1 and; week-2.

• To avoid fruit shed in sapota, it is advised to spray Planofix as foliar spray @1 ml per liter.

# Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 1.5 mm (-76% large deficit) and no rainfall received over Rayalaseema during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023)

is no rainfall over Coastal Andhra Pradesh and Rayalaseema for week-1 and; above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

 In Chittoor, Vizianagaram, West Godavari, Krishna, Ananthapuramu and Kadapa districts, present weather conditions are favourable for incidence of hoppers in mango. To control the hoppers incidence, spraying of Dimethoate@ 2ml/litre or Chlorpyriphos @2.5ml/litre of water is recommended.

### Gujarat

No rainfall received over Gujarat during 01 - 13 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) over Gujarat is no rainfall for week-1 and; week-2.

• Under cloudy weather condition, there is chance of early blight of potato. To control, it is advised to spray of Chlorothalonil 75 WP 0.25 % (25 g) in 10 liters of water at 35 to 40 days after planting is recommended.

# West Bengal

No rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 0.1 mm (-99% large deficit) during 01 - 13 January 2023. The extended range weather forecast (rainfall) for the next two weeks (13 - 19 January 2023 and 20 - 26 January 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; week-2.

- Irrigation is advised to upland vegetables (carrot, radish, onion, brinjal etc.) and chick pea crop.
- Deficient rainfall pattern is observed in the southern districts of West Bengal. Farmers are advised not to go for the sowing of Boro rice.

### Disclaimer:

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