



National Agromet Advisory Services Bulletin

Date of issue: 20 January 2023

based on

Extended Range Weather Forecast (ERFS)

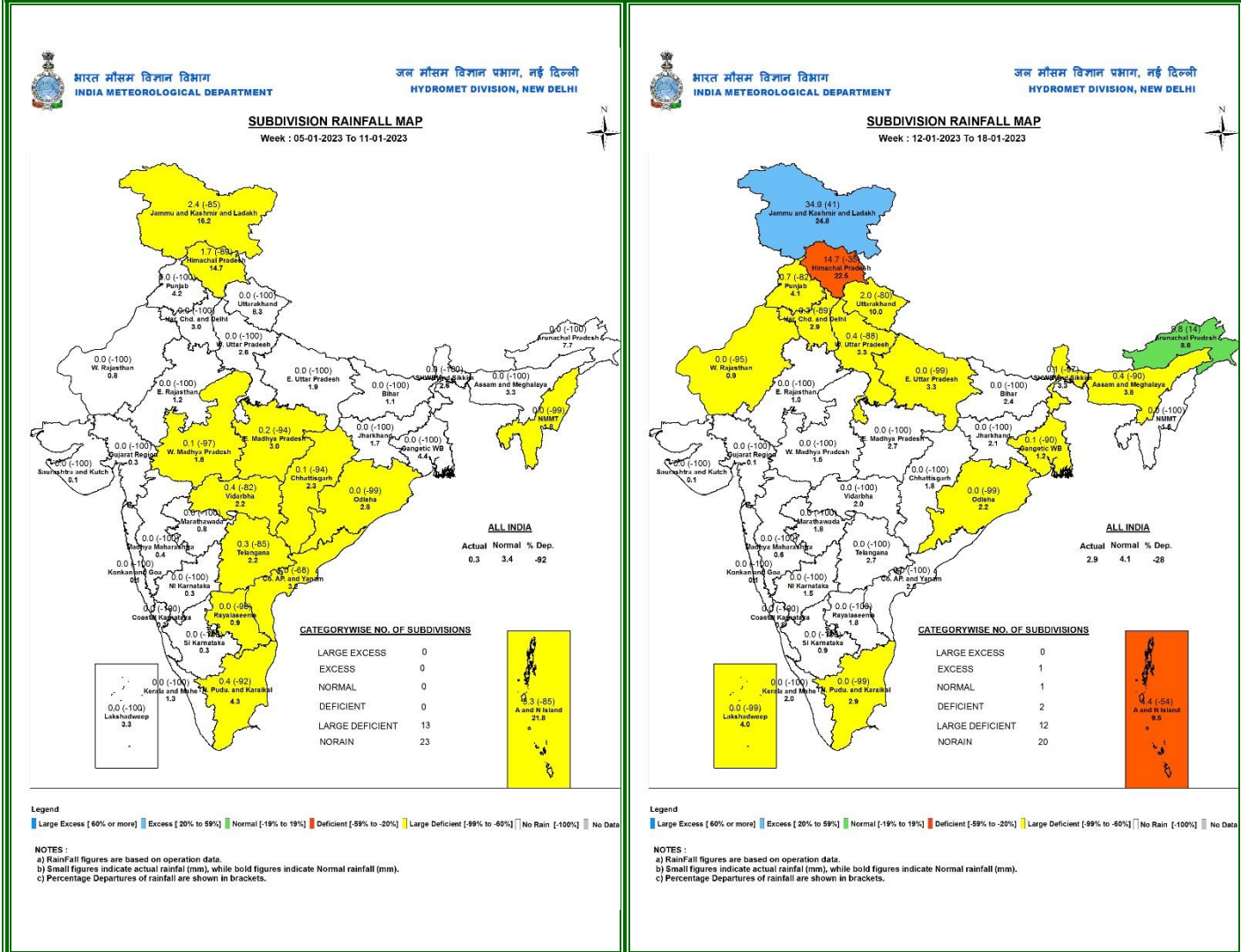
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**AICRP on Agro-Meteorology (AICRPAM)
Central Research Institute for Dryland Agriculture (CRIDA)
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&
India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

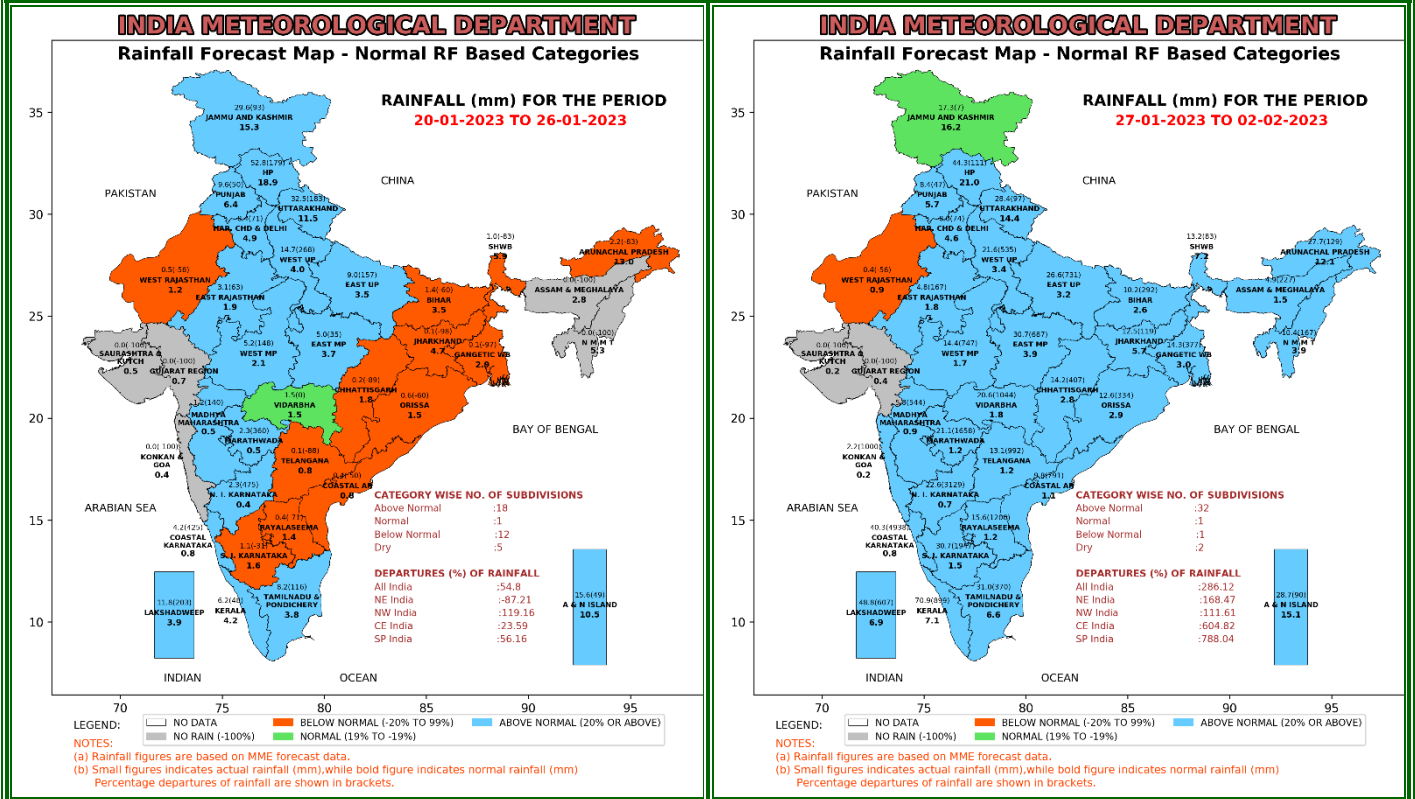
Realized Rainfall (5th to 18th January 2023)



- Normal or above normal rainfall occurred in either of the two weeks in Jammu Kashmir & Ladakh (UTs) and Arunachal Pradesh.
- 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- 18th January) (20th January 2023 to 2nd February 2023)



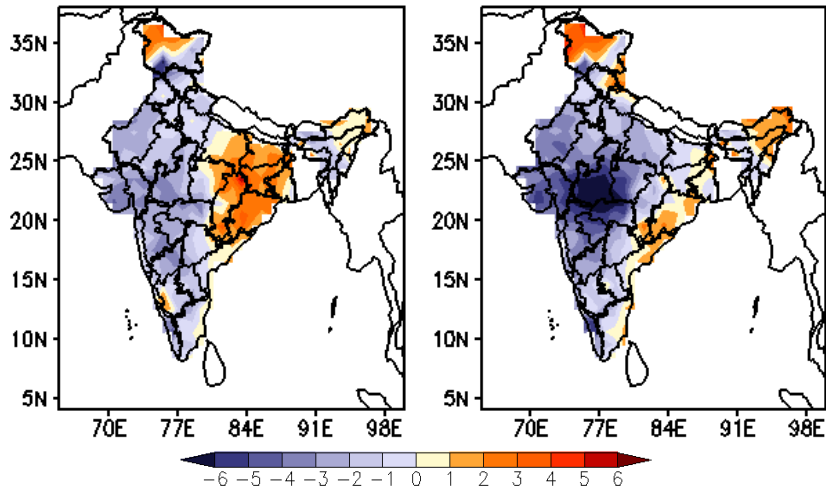
- **Week 1 (20.01.2023 to 26.01.2023):** Rainfall activity associated with Western Disturbance is likely over north India and adjoining central India.
- **Week 2 (27.01.2023 to 02.02.2023):** Rainfall activity associated with Western Disturbance is likely over north India and adjoining central India as well as parts of southern Peninsula.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 18th January)
(20th January 2023 to 2nd February 2023)**

MME forecast Tmax anomaly (Deg C)

(Week1: 20Jan–26Jan)

(Week2: 27Jan–02Feb)



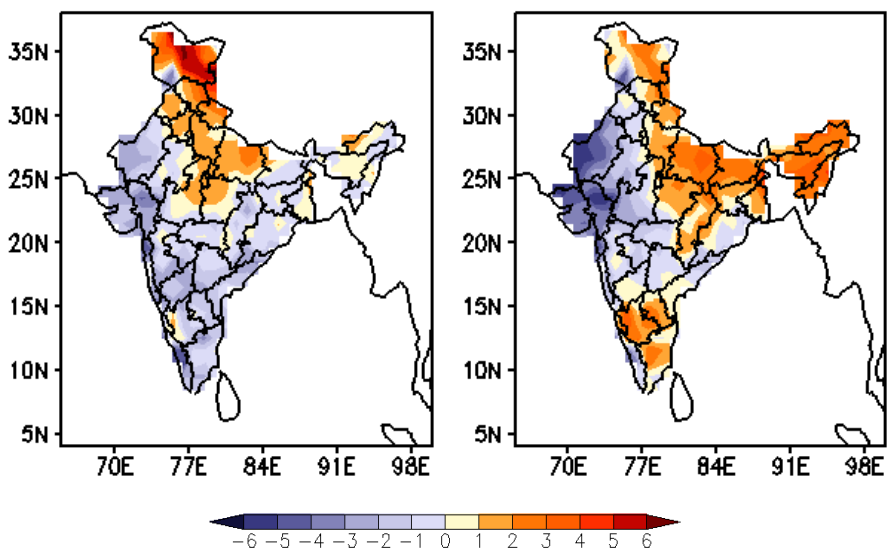
Maximum Temperature (Tmax)

- **Week 1 (20.01.2023 to 26.01.2023):** Tmax will be above normal over east India and the adjoining parts.
- **Week 2 (27.01.2023 to 02.02.2023):** Tmax will be above normal over east coast & adjoining areas and significantly below normal over central India.

MME forecast Tmin anomaly (Deg C)

(Week1: 20Jan–26Jan)

(Week2: 27Jan–02Feb)



Minimum Temperature (Tmin)

- **Week 1 (20.01.2023 to 26.01.2023):** Tmin is likely to be below normal over most parts of the country except north India and central India.
- **Week 2 (27.01.2023 to 02.02.2023):** Tmin is likely to be below normal over northwest India and west central parts of India.

Agromet Advisories

Uttar Pradesh

No rainfall received over East Uttar Pradesh and 0.4 mm of rainfall received over West Uttar Pradesh (-95% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is above normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; week-2.

Western Uttar Pradesh

- To protect the pigeon pea crop from frost, it is advised to provide light irrigation and spray 1% KCl.
- Farmers are advised to do the smoke 3-4 places around the potato field and light irrigation in potato crops to protect fog/frost.

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

0.7 mm (-92% large deficit) of rainfall received over Punjab during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Punjab is below normal for week-1 and above normal for week-2.

- Ensure protection of the evergreen fruit plants especially younger plants from severe cold. Thatches by using paddy straw, doob grass, date palm leave etc can be erected on these plants by keeping the sun side open.
- 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

17 mm (-62% large deficit) of rainfall received over Himachal Pradesh during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Himachal Pradesh is above normal rainfall for week-1 and week-2.

- Add mulch material in space between two rows of vegetables crops for conservation of soil moisture. The sharp decline in the temperature over the past few days 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 0.3 mm (-96% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is above normal for week-1 and week-2.

- Due to variable and cold weather condition farmers are advised to apply irrigation in the timely sown green gram crop.
- Top protect the animals from cold temperature, keep them under shed and provide dry and clean bedding during night.

Bihar

No rainfall received over Bihar during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is below normal for week-1 and above normal for week-2.

- Due to decrease in low night temperature, farmers are advised to apply the light irrigation to vegetable crops and newly planted fruit crops to avoid the impact of low temperature.
- To 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 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is below normal for week-1 and normal for week-2.

- The increase in humidity and slight increase in temperature may cause wilt disease in lentil crop. Hence, spraying of Carbendazim @ 1 g per litre of water twice at weekly interval is advised.
- To withstand cold stress, light irrigation is is advised in potato crop. Create smoke around the field and make fire in the direction of wind.

Assam

The amount of rainfall received over Assam was 0.4 mm (-95% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is no rainfall for week-1 and above normal for week-2.

- Low night temperature coupled with dense fog is favorable for aphid infestation in rapeseed. To control aphid infestation, it is advised to spray Thiamethoxam 25 WG @ 3 g per 10 liters of water.
- To protect the banana bunches from low temperature stress, it is advised to cover them with white polythene bags.

Jammu

The amount of rainfall received over Jammu was 38 mm (-25% deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Jammu is above normal for week-1 and; normal for week-2.

- The weather is congenial for wilt and blight attack, if observed it is advised to apply Bavistin/Carbendazim @ 3g/litre of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 0.4 mm (-96% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is above normal for week-1 and 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 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is above normal for week-1 and week-2.

- To control the infestation of leaf webbers in cabbage, it is advised to destroy the affected part along with the webbers, then spray a solution of 5% neem seed kernel extract and also apply neem cake as the basal application..
- 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 (-92% large deficit) over Vidarbha was recorded during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is no rainfall over Konkan and above normal over Madhya Maharashtra and Marathwada and normal over Vidarbha for week-1 and; above normal over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-2, respectively.

Vidarbha

- Under prevailing weather condition, it is advised to harvest the matured early sown/early maturing pigeonpea variety and ensure safe storage of harvested produce.

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

- To minimize the pre-mature fruit drop of mango, it is advised to apply 150 to 200 litres of water per tree after fruit setting at 15 days interval for 3 to 4 times.
- Due to cool and dry weather, there is possibility for incidence of powdery mildew disease in chilli. if incidence is noticed, spray Hexaconazole 5% @ 5 ml per 10 litres in water.

Odisha

The amount of rainfall received over Odisha was 0.1 mm (-99% deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Odisha is below normal for week-1 and; above normal for week-2.

- Prevailing weather is optimum for sowing of summer maize. Grow composite varieties like *Navjot*, *Dhabal* and *Vijay* and hybrids like *Ganga*, *Deccan -105*, *Deccan* and *Kargil 633*.
- To control sigatoka leaf spot in banana orchard, it is advised to spray 2 g Carbendazim 12% + Mancozeb 63% WP or Chlorothalonil 75% WP per litre of water.

Karnataka

No rainfall received during 01 - 19 January 2023 over South Interior Karnataka, North Interior Karnataka and Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is above normal over Coastal Karnataka and North Interior Karnataka and below normal over South 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.

North Interior Karnataka

- For the management of sucking pests in safflower, spraying of 0.2 g Thiamethoxam 25 WC or 1 g Acephate 75 SP dissolved in one liter of water is advised.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 0.1 mm (-98% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Chhattisgarh is below normal for week-1 and; above normal for week-2.

- Considering the present weather conditions, there is chance of aphid infestation in vegetable crops. Therefore, farmers are advised for continuous monitoring and spraying of neem based pesticides when initial outbreak is observed.

Madhya Pradesh

The amount of rainfall received over East Madhya Pradesh was 0.2 mm (-98% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over East Madhya Pradesh is above normal for week-1 and; week-2.

- To protect the standing crops from cold injury, it is advised to apply light and frequent irrigation / sprinkler irrigation in vegetables and pulses during evening hours in northern gird zone, Bundelkhand, and eastern parts of the state.
- Due to high dew formation, spread of early and late blight disease may occur in potato crop. To control, spraying of Dithane (Mancozeb) @ 2.5 g /litre water is advised.

Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 1.5 mm (-82% large deficit) and no rainfall received over Rayalaseema during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is below 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 Chlorpyrifos @2.5ml/litre of water is recommended.

Gujarat

No rainfall received over Gujarat during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over Gujarat is no rainfall for week-1 and; week-2.

- Present weather condition is congenial for incidence of powdery mildew in chilli. To manage, it is advised to spray wettable sulphur 80% WP 35 g or Hexaconazole 5 EC 15 ml in 10 litres of water.

West Bengal

0.1 mm (-98% large deficit) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 0.2 mm (-98% large deficit) during 01 - 19 January 2023. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; above normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-2.

- Irrigation is advised to upland vegetables (carrot, radish, onion, brinjal etc.) and chick pea crop.

Rajasthan

No rainfall received over Rajasthan during 01 - 19 January 2023. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 January 2023 and 27 January - 02 February 2023) over East Rajasthan is above normal for week-1 and; week-2.

- Under present weather condition constant monitoring of aphids is advised in mustard crop. If insect population above ETL than spraying of Rogar or Quinalphos @ 2.0 ml/ litre water is recommended.

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