



National Agromet Advisory Services Bulletin

Date of issue: 10 February 2023

based on

Extended Range Weather Forecast (ERFS)

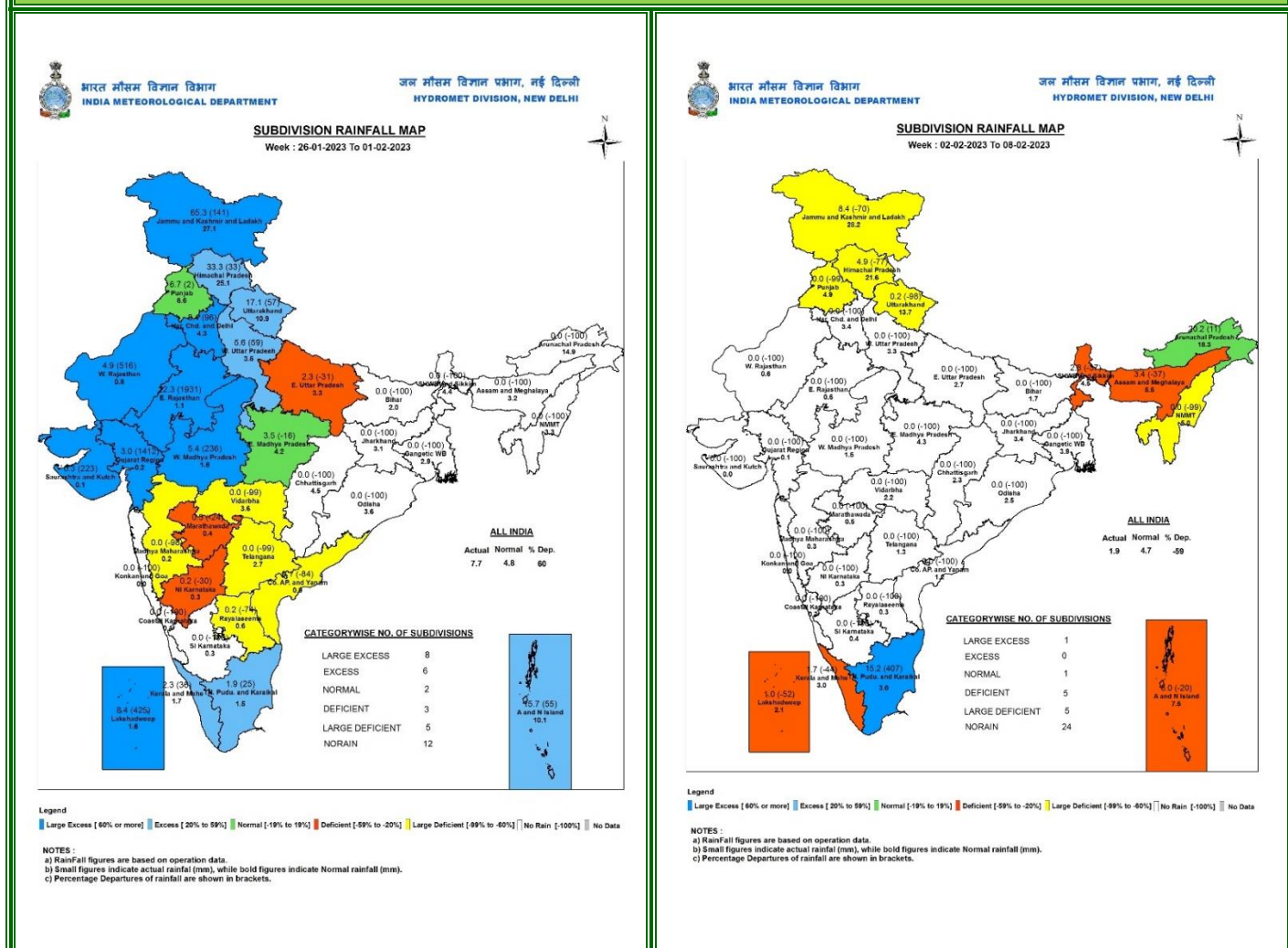
Validity: 10 - 23 February 2023

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 (26th January to 8th February 2023)



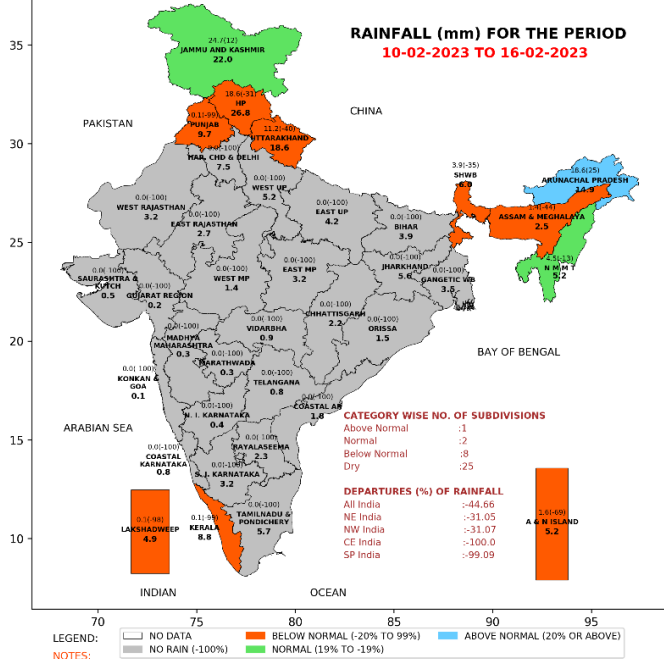
- Normal or above normal rainfall occurred in both the weeks in Tamil Nadu Puducherry & Karaikal
- Normal or above normal rainfall occurred in either of the two weeks in Jammu Kashmir & Ladakh (UTs), Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttarakhand, West Uttar Pradesh, Rajasthan, Madhya Pradesh, Gujarat State, Arunachal Pradesh, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands.
- 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- 8th February) (10th February to 23rd February 2023)

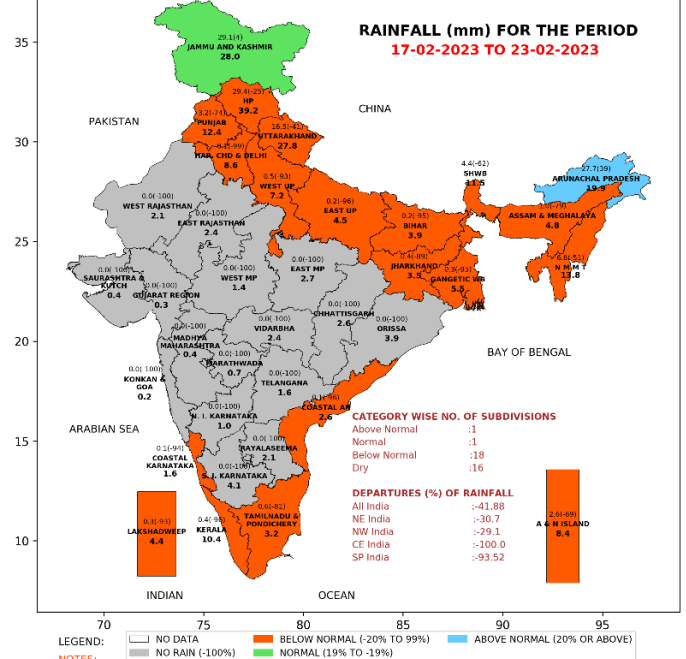
INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



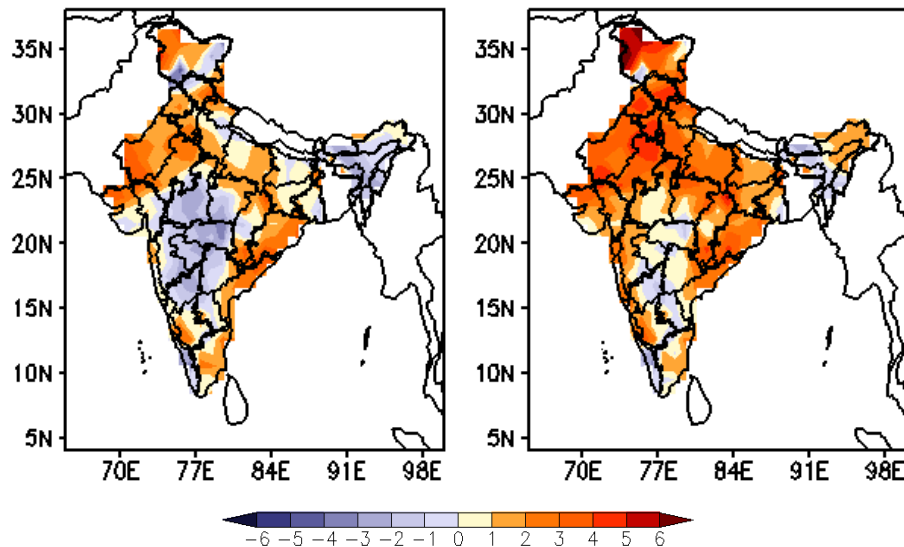
- **Week 1 (10.02.2023 to 16.02.2023) and Week 2 (17.02.2023 to 23.02.2023):** Rainfall activity associated with Western Disturbance is likely over extreme north India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 8th February)
(10th February to 23rd February 2023)**

MME forecast Tmax anomaly (Deg C)

(Week1: 10Feb–16Feb)

(Week2: 17Feb–23Feb)



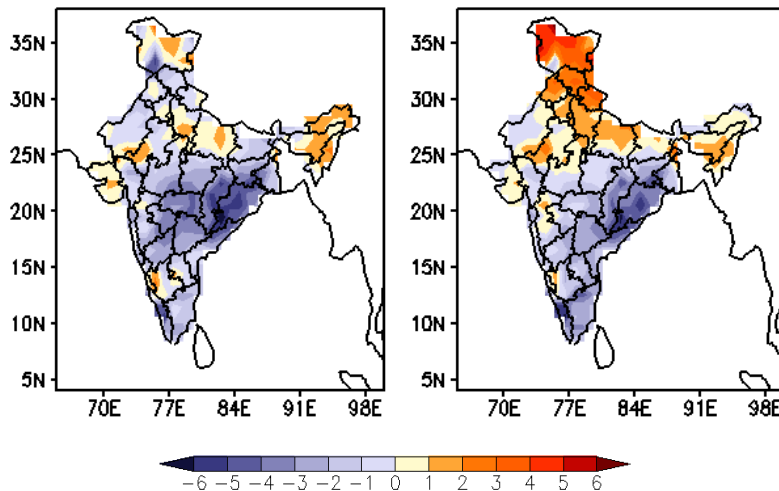
Maximum Temperature (Tmax)

- **Week 1 (10.02.2023 to 16.02.2023):** Tmax is likely to be above normal over northwest India and eastern coast & adjoining areas.
- **Week 2 (17.02.2023 to 23.02.2023):** Tmax is likely to be above normal over most parts of the country.

MME forecast Tmin anomaly (Deg C)

(Week1: 10Feb–16Feb)

(Week2: 17Feb–23Feb)



Minimum Temperature (Tmin)

- **Week 1 (10.02.2023 to 16.02.2023) and Week 2 (17.02.2023 to 23.02.2023):** Tmin is likely to be below normal over eastern parts of the country. However, it is likely to be above normal over extreme north India and northeast India during week 2.

Agromet Advisories

Uttar Pradesh

04 mm (-74% large deficit) rainfall was received over East Uttar Pradesh and 12 mm of rainfall received over West Uttar Pradesh (-33% deficit) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-1 and; below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to no rainfall forecast during next week, farmers are advised to provide irrigation in wheat crop which is at tillering, jointing and PI stages and top dressed $\frac{1}{4}$ urea at optimum moisture during CRI stage.
- Under optimum moisture condition, sowing of *zaid rabi* maize crop is advised.

Eastern Uttar Pradesh

- Because of no rainfall forecast in the coming week, farmers are advised to provide light irrigation in wheat and other standing crops.
- Under present weather condition, wrapping plastic sheets around mango trunks is advised to prevent the climbing of young (nymphs) mealy bugs.

Himachal Pradesh

91 mm (-18% deficit) of rainfall was received over Himachal Pradesh during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Himachal Pradesh is below normal for week-1 and week-2.

- Nursery preparation is advised for chilies, tomato and brinjal crops in poly house.
- Add mulch material in the space between two rows of vegetables crops for conservation of soil moisture.
- Keeping in view of prevailing humidity in the atmosphere, farmers are advised to monitor mustard crop against white rust incidence. If incidence is high, then it is advised to spray Dithane M-45 @ 2 g/litre of water.

Assam

The amount of rainfall received over Assam was 4.5 mm (-79% large deficit) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is below normal for week-1 and 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 144 mm (12% excess) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Jammu is normal for week-1 and; week-2.

- Due to prevailing high relative humidity and low day temperature, there is a possibility for outbreak of the alternaria blight in mustard and gobi sarson crop. To manage, it is advised to spray the crop with Mancozeb @ 0.25%.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 20 mm (29% excess) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall for week-1 and below normal for week-2.

- Prevailing weather conditions are congenial for mealy bug infestation in guava and mango. For the management, it is advised to spray Triazophos 2 ml+ Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/litre.

Kerala

The amount of rainfall received over Kerala was 15 mm (33% large excess) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of anthracnose disease in cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray *pseudomonas* @ 20 g per litre.
- For the management of slow wilt disease in pepper, it is advised to apply neem cake at the base of pepper plants and also advised to apply 25 g of the bio control agent *Paecilomyces lilacinus* at the base of each plant.

Maharashtra

No rainfall over Madhya Maharashtra and Konkan region and rainfall of 0.5 mm (-96% large deficit) over Vidarbha and 0.6 mm (-88% large deficit) rainfall was recorded over Marathwada during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week -1 and; week-2, respectively.

Vidarbha

- Under prevailing weather condition, normal sowing of summer sesame is advised during first fortnight of February with recommended varieties AKT 101 and PKV-NT-11.

- Under prevailing weather condition, it is advised to harvest the earlier sown chickpea variety and ensure safe storage of harvested produce.

Marathwada

- Due to fall in minimum temperature during last five days, sugary disease may observed in late sown rabi sorghum. For management, it is advised to spray Carbendazim @10 g per 10 litres of water.
- Earthing up and irrigation management is advised in Mrig bag (June sown) banana orchard and also provide mechanical support to banana orchard.

Konkan

- Due to forecast of rise in temperature, it is advised to provide irrigation to nursery, new fruit crop plantation and vegetable crops as per requirement.
- To mitigate the effect high temperature and protect from fungal diseases, it is advised to apply Bordeaux mixture to the stem of mango, cashewnut, sapota trees.

Madhya Maharashtra

- Mulching is advised to reduce the evaporation from soil in orchard crops.

Odisha

The amount of rainfall received over Odisha was 0.1 mm (-99% large deficit) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Odisha is no rainfall for week-1 and; below normal for week-2.

- Due to cloudy weather condition, there is a chance of infestation of sucking pest like mango hoppers in mango plant. To control, it is advised to spray Imidacloprid 17.8% SL @ 5ml/15 litres of water or Thiamethoxam 25% WG @ 3 ml/15 litres of water.
- Due to prevailing mild dry weather condition, farmers are advised to irrigate their crop field.

Karnataka

No rainfall received during 01 January - 10 February 2023 over Coastal Karnataka and the amount of rainfall received over South Interior Karnataka is 1.3 mm (-54% deficit) and 0.2 mm rainfall (-92% large deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall over Coastal Karnataka, South Interior Karnataka and North Interior Karnataka for week-1 and; no rainfall over North Interior Karnataka and South Interior Karnataka and below normal over Coastal Karnataka for week-2.

South Interior Karnataka

- To protect the pulse grains from storage pests, apply oils of castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.

- To protect the mango orchard from powdery mildew diseases, it is advised to spray Lambda Cyhalothrin 5 EC @ 0.5 ml/litre of water or sulphur dust (SULTAF) 80 W @ 3g/litre of water.

Madhya Pradesh

The amount of rainfall received over East Madhya Pradesh was 04 mm (-80% large deficit) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over East Madhya Pradesh is no rainfall for week-1 and; week-2.

- Due to the cloudy weather condition, there may be the chance of pod borer in chickpea and lentil. If larval population is more than 2 larval per plant, it is advised to spray Eamectin Benzoate 5% SG at 90-100 g/acre.

Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 1 mm (-87% large deficit) and 0.2 mm (-95% large deficit) rainfall received over Rayalaseema during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall over Coastal Andhra Pradesh and Rayalaseema for week-1 and; below normal over Coastal Andhra Pradesh and no rainfall over Rayalaseema for week-2.

- In Srikakulam, Nellore and Kadapa districts, present weather conditions are favourable for shoot and fruit borer incidence in brinjal. To control the shoot and fruit borer, spraying of Eamectin benzoate @ 0.3 g (or) Spinosad @ 0.3ml/litre of water is advocated.

Gujarat

3.0 mm (175% large excess) rainfall received over Gujarat during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Gujarat is no rainfall for week-1 and; week-2.

- To control powdery mildew disease in coriander, it is advised to spray wettable sulphur 25 g in 10 liters of water.

West Bengal

0.1 mm (-99% large deficit) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 5 mm (-77% large deficit) during 01 January - 10 February 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) is no rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and; below 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

29 mm (281% large excess) rainfall received over East Rajasthan during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over East Rajasthan is no rainfall for week-1 and; week-2.

- Keeping in view of increasing temperature, farmers are advised to start field preparation for sowing of early crop of okra with improved varieties are A-4, Parbani Kranti and Arka anamika cultivars.

Haryana

12 mm (-37% deficit) rainfall received over Haryana during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Haryana is no rainfall for week-1 and; below normal for week-2.

- Due to possibility of dry and clear weather farmers are advised to apply the irrigation and fertilizer in wheat and barley crop as per need.

Uttarakhand

31 mm (-47% deficit) rainfall received over Uttarakhand during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Uttarakhand is below normal for week-1 and; week-2.

- Under prevailing weather condition, it is advised to prepare fields for sowing of barnyard millet, cheti dhan, potatoes in rainfed areas.

Punjab

15 mm (-42% deficit) rainfall received over Punjab during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Punjab is below normal for week-1 and; week-2.

- Due to prevailing dry weather condition, farmers are advised to apply need based irrigation to the crops

Chhattisgarh

0.1 mm (-99% large deficit) rainfall received over Chhattisgarh during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Chhattisgarh is no rainfall for week-1 and; week-2.

- Looking into the present weather conditions, there are chances of aphid infestation in vegetable crops. Therefore, farmers are advised to do continuous monitoring and spray neem based pesticides when initial outbreak is seen.
- Prevailing average temperature is suitable for proper germination of summer vegetables like pumpkin, bitter gourd, bottle gourd, okra etc. Hence, it is advised to complete the sowing of these vegetables at the earliest.

Bihar

0.2 mm (-98% large deficit) rainfall received over Bihar during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Bihar is no rainfall for week-1 and; below normal for week-2.

- In view of the weather forecast, farmers are advised to start field preparation for sowing of early crop of lady finger with recommended varieties viz., A-4, Parbani Kranti, Arka Anamika, etc. for early sowing of okra.
- Intercultural operations are advised in vegetable crops like in pea, tomato, brinjal, chilli, cabbage etc. and provide light irrigation as per availability of soil moisture.

Jharkhand

No rainfall received over Jharkhand during 01 January - 10 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 February 2023 and 17 - 23 February 2023) over Jharkhand is no rainfall for week-1 and; below normal for week-2.

- Due to favorable temperature, it is advised for nursery preparation of cucurbits, tomato, brinjal and chili crops and also, transplant ready seedlings during this week.

Disclaimer:

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