



# **National Agromet Advisory Services Bulletin**

**Date of issue: 03 February 2023**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 03 - 16 February 2023**

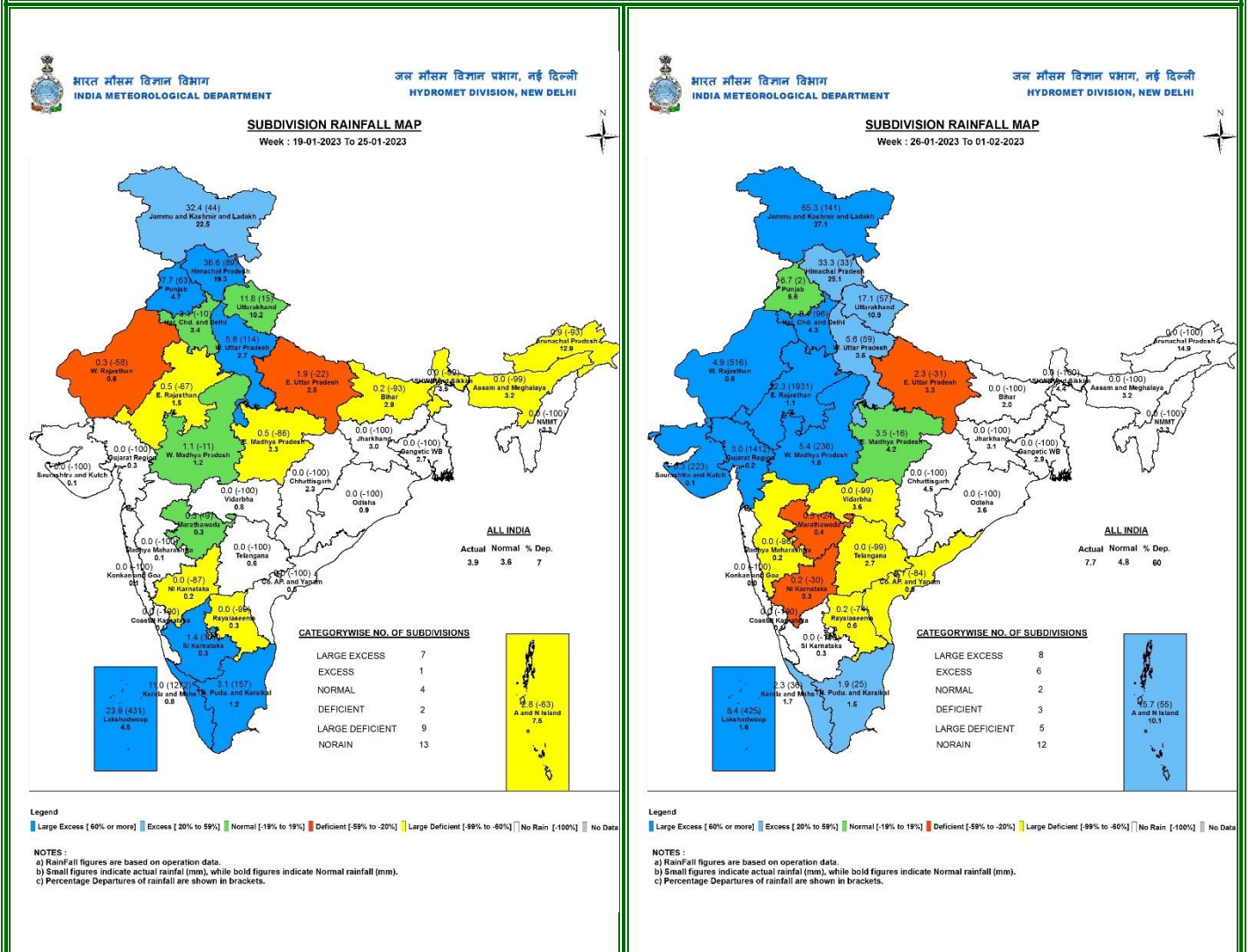
Issued by

**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

(19<sup>th</sup> January to 1<sup>st</sup> February 2023)

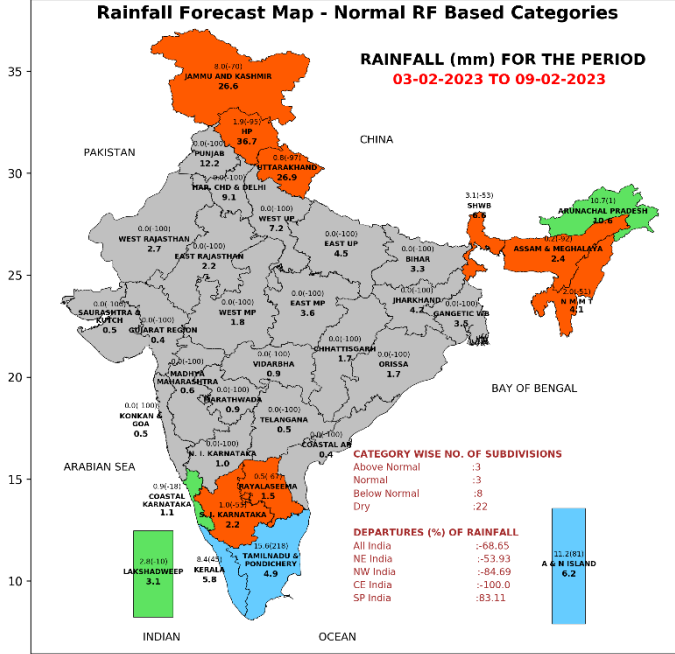


- Normal or above normal rainfall occurred in both the weeks in Jammu Kashmir & Ladakh (UTs), Himachal Pradesh, Punjab, Haryana Chandigarh & Delhi, Uttarakhand, West Uttar Pradesh, West Madhya Pradesh, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks in West Rajasthan, East Rajasthan, East Madhya Pradesh, Gujarat State, Marathwada, South Interior Karnataka and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

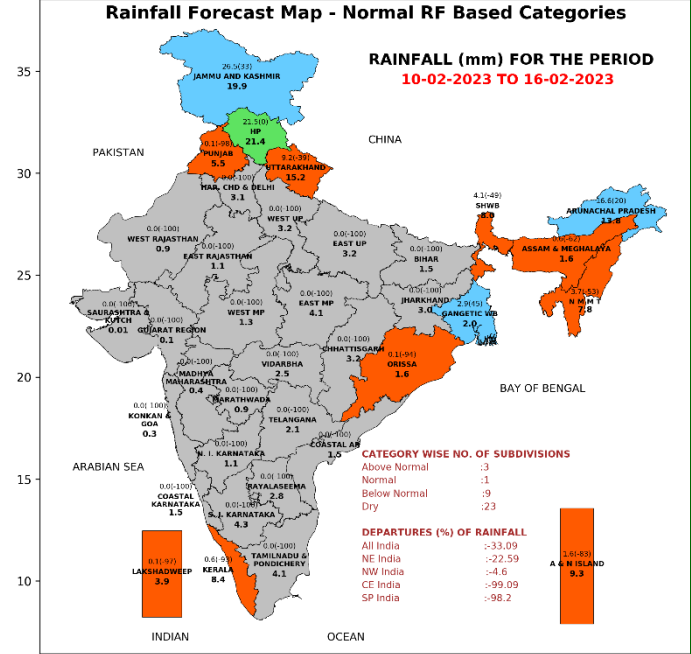
## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC- 1<sup>st</sup> February) (3<sup>rd</sup> February to 16<sup>th</sup> February 2023)

#### INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



#### INDIA METEOROLOGICAL DEPARTMENT Rainfall Forecast Map - Normal RF Based Categories



LEGEND:  NO DATA  BELOW NORMAL (-20% TO 99%)  ABOVE NORMAL (20% OR ABOVE)

NOTES:  
(a) Rainfall figures are based on MME forecast data.  
(b) Small figures indicate actual rainfall (mm), while bold figure indicates normal rainfall (mm).  
Percentage departures of rainfall are shown in brackets.

LEGEND:  NO DATA  BELOW NORMAL (-20% TO 99%)  ABOVE NORMAL (20% OR ABOVE)

NOTES:  
(a) Rainfall figures are based on MME forecast data.  
(b) Small figures indicate actual rainfall (mm), while bold figure indicates normal rainfall (mm).  
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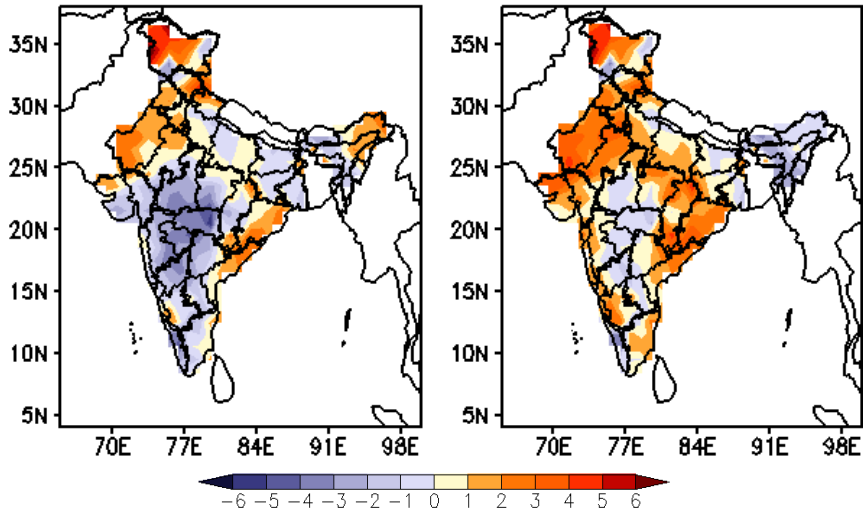
- **Week 1 (03.02.2023 to 09.02.2023):** Above normal rainfall likely over southern parts of peninsular India due to system over southwest Bay of Bengal.
- **Week 2 (10.02.2023 to 16.02.2023):** Above normal rainfall likely over extreme north India.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for the next 2 weeks (IC- 1<sup>st</sup> February)  
(3<sup>rd</sup> February to 16<sup>th</sup> February 2023)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 03Feb–09Feb)

(Week2: 10Feb–16Feb)



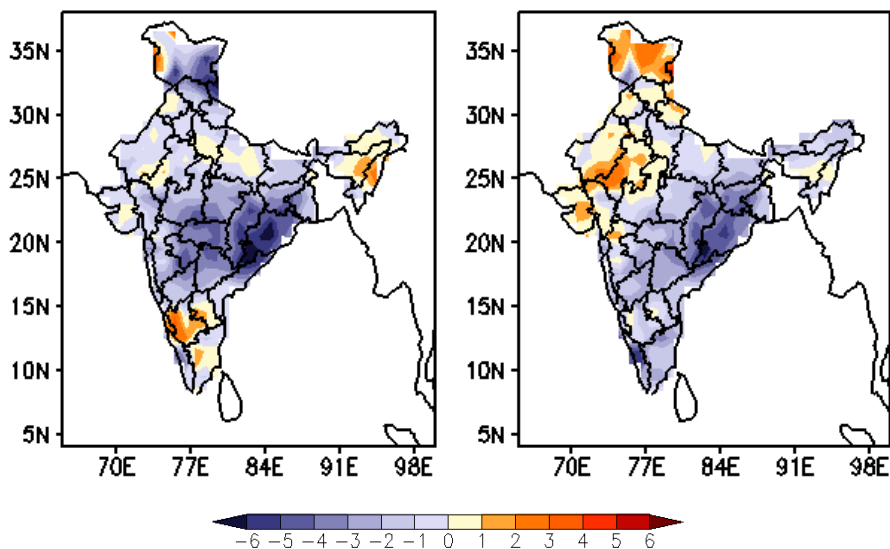
**Maximum Temperature (Tmax)**

- **Week 1 (03.02.2023 to 09.02.2023):** Tmax is likely to be above normal over northwest India and eastern coast and the adjoining areas.
- **Week 2 (10.02.2023 to 16.02.2023):** Tmax is likely to be above normal over most parts of the country except northeast India.

**MME forecast Tmin anomaly (Deg C)**

(Week1: 03Feb–09Feb)

(Week2: 10Feb–16Feb)



**Minimum Temperature (Tmin)**

- **Week 1 (03.02.2023 to 09.02.2023):** Tmin is likely to be below normal over the country except some parts of southern peninsula.
- **Week 2 (10.02.2023 to 16.02.2023):** Tmin is likely to be above normal over northwest India.

## **Agromet Advisories**

### **Uttar Pradesh**

04 mm (-67% large deficit) rainfall was received over East Uttar Pradesh and 12 mm of rainfall received over West Uttar Pradesh (-13% deficit) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-1 and; week-2.

#### *Western Uttar Pradesh*

- Because of increase in maximum and minimum temperature, farmers are advised to monitor aphids in mustard crop. If aphid observed, it is advised to spray Imidachloprid 17.8% S L @ 300 ml/ha with 500 to 600 litres water solution.
- Due to no rainfall forecast during next week, farmers are advised to provide irrigation in wheat crop which is at CRI and tillering stages and top dressed  $\frac{1}{4}$  Urea at optimum moisture during CRI stage.

#### *Eastern Uttar Pradesh*

- Due to prevailing dry and cool weather condition, there is possibility of late blight in potato, hence farmers are advised to spray Zinc carbonate @ 2 kg/ha dissolved in 800-1000 litres of water
- Farmers are advised to protect the animals from the cold wave by keeping them in shed with closed window and doors in night. 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.

### **Himachal Pradesh**

86 mm (-3% deficit) of rainfall was received over Himachal Pradesh during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- 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 attack of white rust. If infection 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 0.4 mm (-97% large deficit) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is below normal for week-1 and week-2.

- Since no rainfall was observed during the past week and large deficit in rainfall was observed since the onset of winter season, hence irrigation may be advocated for maintaining a standing water level of 5±2 cm depth in the boro rice crop fields.
- 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 135 mm (37% excess) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Jammu is below normal for week-1 and; above normal for week-2.

- Due to prevailing high relative humidity and low day temperature, there is a possibility for outbreak 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 3 mm (-69% large deficit) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is above normal for week-1 and no rainfall for week-2.

- Prevailing weather conditions are congenial for mealy bug incidence in guava and mango. For the management, it is advised to spray Triozophos 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 13 mm (62% large excess) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is above normal for week-1 and below normal for 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 *Pisilomyces lilacinus* at the base of each plant..

### **Maharashtra**

No rainfall over Madhya Maharashtra and Konkan region and rainfall of 0.5 mm (-95% large deficit) over Vidarbha and 0.6 mm (-86% large deficit ) over Marathwada was recorded during 01



January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is no rainfall over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week -1 and; week-2, respectively.

#### *Vidarbha*

- With the continuance of dry weather, it is advised to ensure sufficient soil moisture through irrigation at pod formation stage for better productivity particularly in late sown chickpea.
- Under prevailing weather condition, it is advised to harvest the late sown pigeonpea variety and ensure safe storage of harvested produce.

#### *Marathwada*

- For the management of leaf minor in tomato crop, it is advised to spray of Broflanilide @ 1.25 g or Cyantraniliprole @ 18 ml per 10 litres of water.
- Under prevailing weather condition, harvesting of timely sown and mature rabi sunflower crop is advised.

#### *Konkan*

- To mitigate the effect of high temperature and protect from fungal diseases, it is advised to apply Bordeaux mixture to the stem of mango, cashewnut, sapota trees.
- To minimize the pre-mature fruit drop of mango due to forecast for rise in temperature, 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.

#### *Madhya Maharashtra*

- Spraying of 1% KNO<sub>3</sub> is advised under moisture stress condition on the *rabi* crops.
- 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 - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 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.
- 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.
- Due to prevailing mild dry weather condition, farmers are advised to irrigate their crop field.

## **Karnataka**

No rainfall received during 01 January - 02 February 2023 over Coastal Karnataka and the amount of rainfall received over South Interior Karnataka is 1.4 mm (-41% deficit) and 0.2 mm rainfall (-91% large deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is normal over Coastal Karnataka and below normal over South Interior Karnataka and no rainfall over North Interior Karnataka for week-1 and; no rainfall over North Interior Karnataka, Coastal Karnataka and South Interior 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 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.

## **Madhya Pradesh**

The amount of rainfall received over East Madhya Pradesh was 04 mm (-75% large deficit) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over East Madhya Pradesh is no rainfall for week-1 and; week-2.

- 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 1.7 mm (-83% large deficit) and 0.2 mm (-96% large deficit) rainfall received over Rayalaseema during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is no rainfall over Coastal Andhra Pradesh and below normal over Rayalaseema for week-1 and; no rainfall over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Prevailing weather conditions are favourable for spodoptera in groundnut grown in Ananthapuram, Kurnool, Kadapa and Prakasam districts. For effective control of spodoptera, farmers are advised to spray Quinalphos @ 2.0 ml or Thiodicarb @ 1.0 g or Novaluron @ 1.0 ml or Flubendamide 0.2 ml/litre of water.

## **Gujarat**

3.0 mm (202% large excess) rainfall received over Gujarat during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Gujarat is no rainfall for week-1 and; week-2.

- For summer groundnut, sowing of early maturing vertical varieties (viz., GG-2, GG-5, GG-6, TAG-24, TG-26 and TG-37A) of groundnut is advised.



**West Bengal**

0.1 mm (-99% large deficit) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 0.2 mm (-99% large deficit) during 01 January - 02 February 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) is no rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and; above normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-2.

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

**Rajasthan**

23 mm (348% large excess) rainfall received over East Rajasthan during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over East Rajasthan is no rainfall for week-1 and; week-2.

- The present weather condition is favorable for incidence of powdery mildew disease in opium. To manage, it is advised to spray Carbendazim 12% + Mancozeb 62% @ 2 g /litre of water.

**Haryana**

12 mm (-21% deficit) rainfall received over Haryana during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Haryana is no rainfall for week-1 and; week-2.

- Due to the forecast of no rainfall in next two weeks, farmers are advised to apply irrigation in the vegetable crops and young fruit plants.

**Uttarakhand**

31 mm (-30% deficit) rainfall received over Uttarakhand during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Uttarakhand is below normal for week-1 and; week-2.

- Regular monitoring of mustard crops against aphid infestation is advised. If aphid observed in mustard crops, apply neem oil or any other insecticides to control aphid infestation.

**Punjab**

15 mm (-28% deficit) rainfall received over Punjab during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Punjab is no rainfall for week-1 and; below normal for week-2.

- Mulching is advised in vegetable crops like cauliflower, spinach, radish, turnip, pea, tomato, brinjal, chilli and capsicum to reduces heat loss from the surface.

**Chhattisgarh**

0.1 mm (-99% large deficit) rainfall received over Chhattisgarh during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09

February 2023 and 10 - 16 February 2023) over Chhattisgarh is no rainfall for week-1 and; week-2.

- To control leaf caterpillar in vegetable crops, farmers are advised to spray Spinosad @ 150 ml/ha.

### **Bihar**

0.2 mm (-98% large deficit) rainfall received over Bihar during 01 January - 02 February 2023. The extended range weather forecast (rainfall) provided for the next two weeks (03 - 09 February 2023 and 10 - 16 February 2023) over Bihar is no rainfall for week-1 and; week-2.

- Due to prevailing dry weather condition farmers are advised to provide irrigation in rabi crops mainly in wheat, maize, potato, vegetables and pea.
- To protect the mango and litchi from the incidence of powdery mildew disease, spraying of sulphur based fungicide @ 1.0ml/litre of water on the foliage of the trees is advised.

### ***Disclaimer:***

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