



# **National Agromet Advisory Services Bulletin**

**Date of issue: 10 March 2023**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 10 - 23 March 2023**

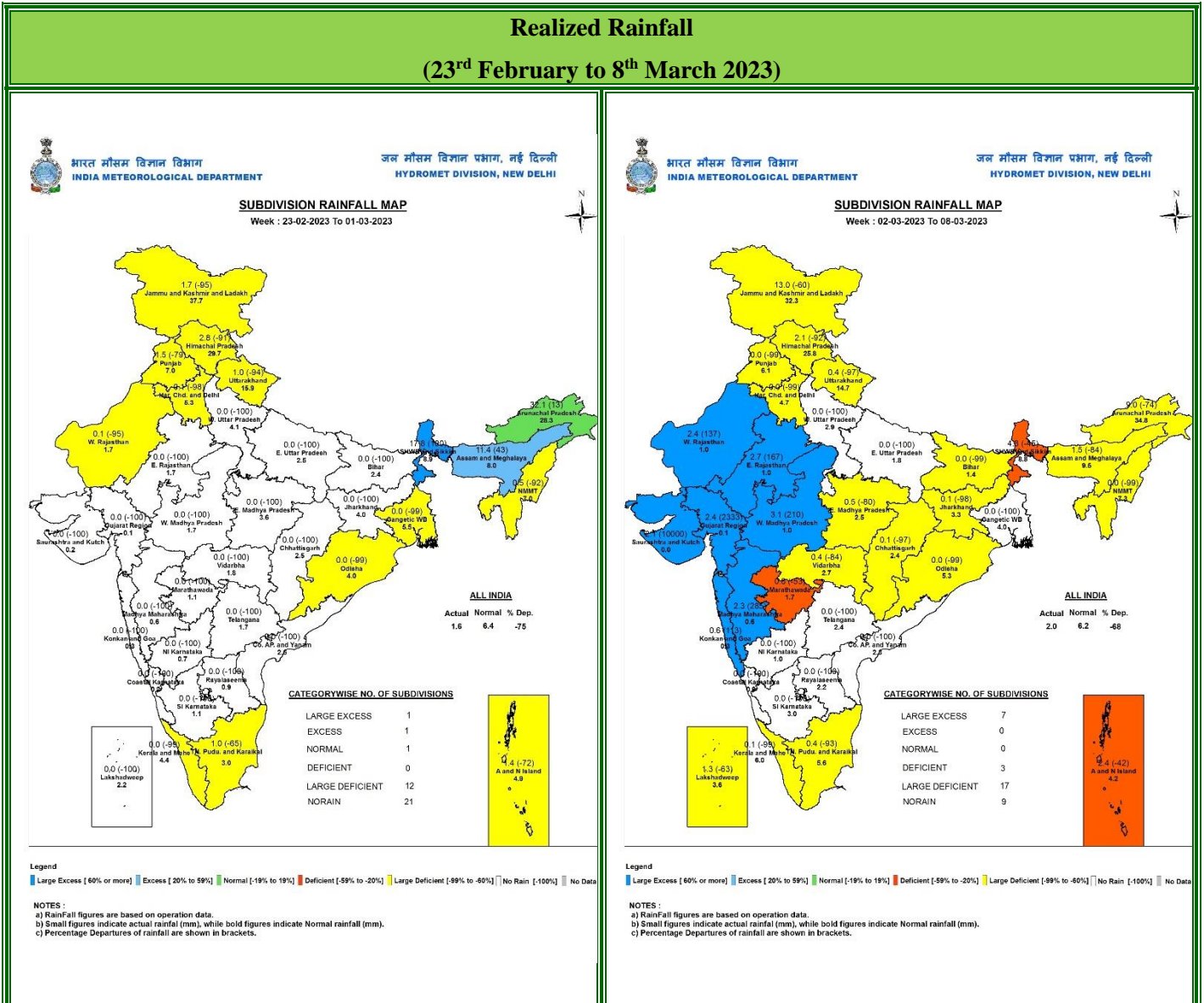
Issued by

**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

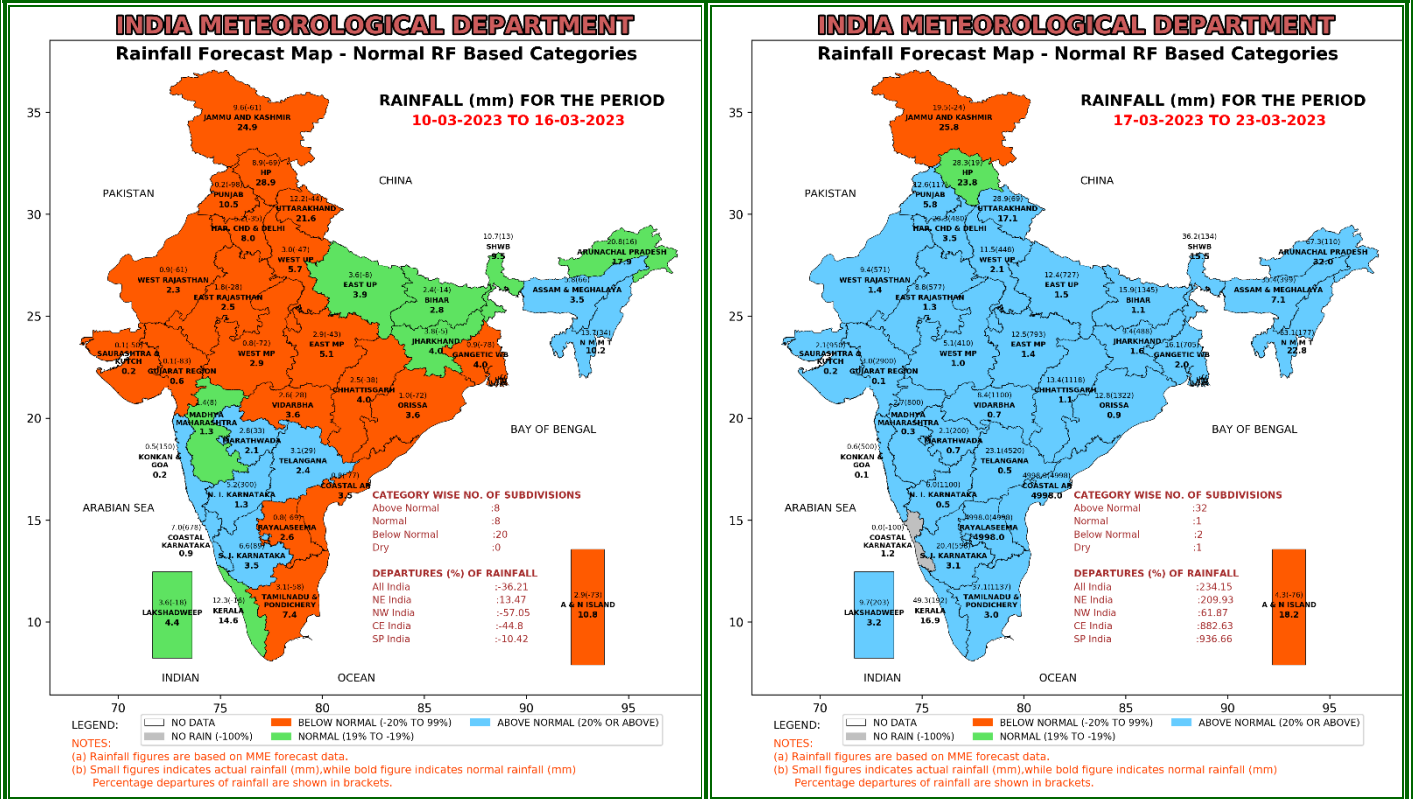
(23<sup>rd</sup> February to 8<sup>th</sup> March 2023)



- Normal or above normal rainfall occurred in either of the two weeks in Sub-Himalayan West Bengal, Assam & Meghalaya, Arunachal Pradesh, Rajasthan, Gujarat State, West Madhya Pradesh, Konkan & Goa and Madhya Maharashtra.
- 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- 8<sup>th</sup> March) (10<sup>th</sup> to 23<sup>rd</sup> March 2023)



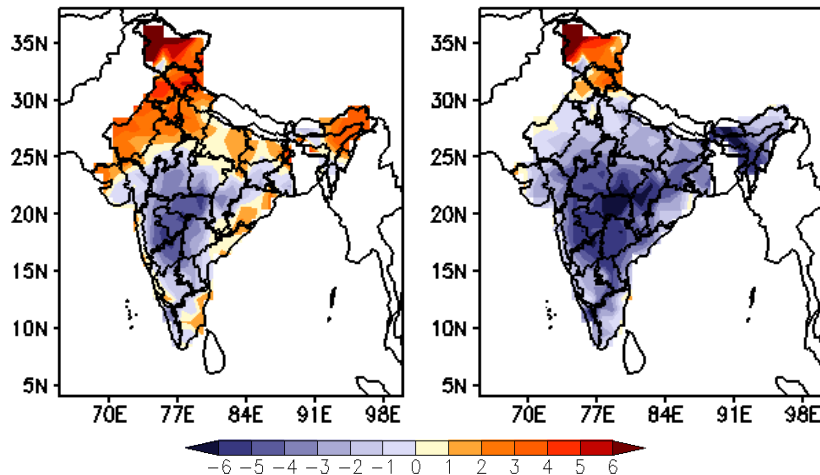
- **Week 1 (10.03.2023 to 16.03.2023):** Rainfall activity associated with Western Disturbance is likely over extreme north India.
- **Week 2 (17.03.2023 to 23.03.2023):** Rainfall activity associated with Western Disturbance is likely over extreme north India and parts of Northeast India whereas, rainfall associated with convective activity is likely over southern & eastern coastal states of India and the adjoining areas. (**Note:** Kindly ignore the rainfall amount shown in the map for Coastal Andhra Pradesh and Rayalaseema)

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

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

(Week1: 10Mar–16Mar)

(Week2: 17Mar–23Mar)



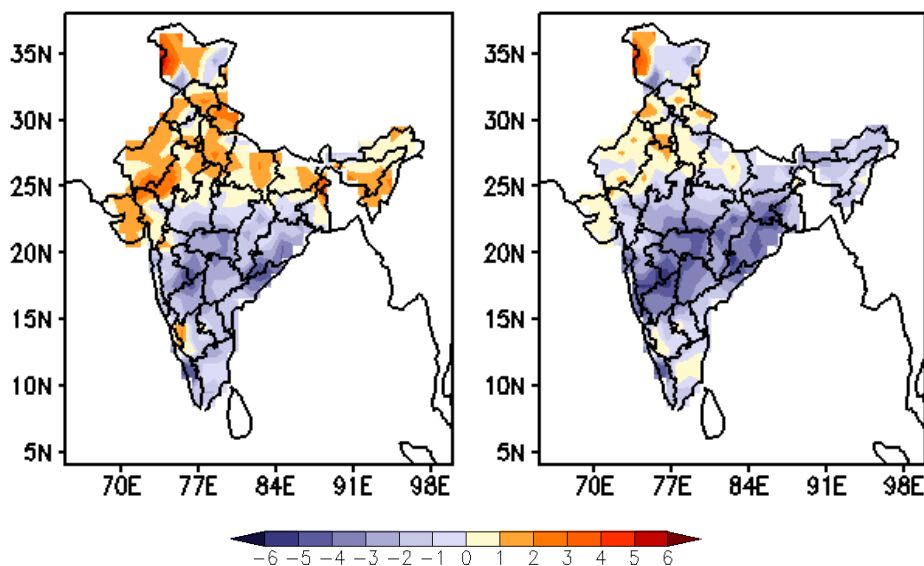
**Maximum Temperature (Tmax)**

- **Week 1 (10.03.2023 to 16.03.2023):** Tmax is likely to be above normal over most parts of northern and northwestern India and below normal over some parts of central and western India.
- **Week 2 (17.03.2023 to 23.03.2023):** Tmax is likely to be below normal over most parts of the country.

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

(Week1: 10Mar–16Mar)

(Week2: 17Mar–23Mar)



**Minimum Temperature (Tmin)**

- **Week 1 (10.03.2023 to 16.03.2023):** Tmin is likely to be above normal over northern & northwest India and slightly below normal over east central parts of India.
- **Week 2 (17.03.2023 to 23.03.2023):** Tmin is likely to be normal over northern & northwest India and below normal over east central parts of India.

## Strategic Agricultural Planning based on rainfall till 23 March 2023

### Agromet Advisories

#### Uttar Pradesh

No rainfall was received over East Uttar Pradesh and 0.1 mm (-97% deficit) rainfall was received over West Uttar Pradesh during 01 - 09 March 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is normal over East Uttar Pradesh and below normal over West Uttar Pradesh for week-1 and; above normal for week-2.

#### *Western Uttar Pradesh*

- Prevailing weather condition is favorable for infestation of pod borer and semi looper in chickpea crop. To protect, it is advised to spray Fenvalerate 0.4% DP 20-25 kg/ha or Quinalphos 20% EC 2.0 litre/ha or Malathion 50 % EC 2.0 litre/ha with 500 to 600 litres water.
- Moisture should be maintained in late sown wheat crop to minimize the effect of higher temperature.

#### *Eastern Uttar Pradesh*

- Keeping the increase in temperature in view, farmers are advised for light irrigation in standing wheat crop and vegetables as per requirement.
- In view of dry weather and increasing temperature, farmers are advised to harvest fully ripe rapeseed and mustard crops as soon as possible.
- In view of rising temperature, farmers are advised to procure quality seeds for green gram and black gram seeds from certified source for sowing during first week of March. Recommended varieties for green gram are Pusa Visal, Pusa Vaisakhi, PDM-11, SML-32 and black gram are Pant Urd 19, Pant Urd 30, Pant Urd 35, PDU-1, K-851, GM-05.

#### Punjab

1.6 mm (-78% large deficit) rainfall received over Punjab during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Punjab is below normal for week-1 and; above normal for week-2.

- Prevailing weather is optimum for direct sowing of okra and cowpea and cucurbits like muskmelon, cucumber, bitter gourd bottle gourd, pumpkin, sponge gourd, squashes etc.
- For the management of mango hopper, it is advised to spray 200 ml Confidor 17.8 SL (Imidacloprid) in 500 litres of water per acre basis on spring flush before opening of the flowers.

#### Rajasthan

3.9 mm (162% large excess) rainfall received over East Rajasthan during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over East Rajasthan is below normal for week-1 and; above normal for week-2.

- For the management of termite in barley crop, it is advised to apply Chlorpyrifos 20 EC @ 4 litre/ha.

- Under present weather conditions, transplanting of young seedlings of tomato, chilli and cole crop is advised to complete in this week.
- Complete the sowing of black gram till 15 March with improved varieties like *T-9*, *P.U.-19*, *Nerendra urd-1* and *Nerendra urd-2*. Seed rate- 30-35 kg/ha.

### **Haryana**

0.3 mm (-95% large deficit) rainfall received over Haryana during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Haryana is below normal for week-1 and; above normal for week-2.

- Due to possibility of dry and clear weather, farmers are advised to apply need based irrigation and agrochemicals in *rabi* crops.

### **Uttarakhand**

2.6 mm (-98% large deficit) rainfall received over Uttarakhand during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Uttarakhand is below normal for week-1 and; above normal for week-2.

- Mulching is advised between two rows of vegetable crops in the field to maintain soil moisture and suppress the weed growth in crops.

### **Jharkhand**

0.4 mm (-92% large deficit) rainfall received over Jharkhand during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Jharkhand is normal for week-1 and; above normal for week-2.

- In coming days, temperature is likely to increase which favors the occurrence of blast disease (transplanted rice at establishment stage). Hence, to control, it is advised to spray Carbendazim 50 WP @ 2 g per litre of water or Tricyclazole (Beam) @ 6 g per 10 litres of water during clear daytime.
- For the control of purple blotch and blight disease in onion crop, it is advised to spray Mancozeb 75% WP @ 2 g or Difenconazole 25% EC @ 1ml per litre of water.

### **Assam**

1.5 mm (-87% large deficit) rainfall received over Assam was during 01 - 09 March 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is above normal for week-1 and; week-2.

- Land preparation is advised to continue for cultivation of summer green gram crop. To obtain higher yield, select recommended varieties like *K 851*, *Pratap (SG-1)* etc. for green gram and *Pant U 19*, *SBC 40* etc. for black gram cultivation.
- Vaccinate poultry to protect against Ranikhet disease. Provide 1<sup>st</sup> dose of vaccine to 5-7 days old and 2<sup>nd</sup> to 21-25 days old poultry birds.



### **Chhattisgarh**

0.1 mm (-98% large deficit) rainfall received over Chhattisgarh during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Chhattisgarh is below normal for week-1 and; above normal for week-2.

- Farmers are advised to provide irrigation in summer rice, summer vegetables, fruit orchard etc as per need.

### **Odisha**

No rainfall received over Odisha during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Odisha is below normal for week-1 and; above normal for week-2.

- Farmers are advised to increase the frequency of irrigation in vegetable crops to prevent damage from moisture and high temperature stress.
- Prevailing weather conditions are congenial for mealy bug incidence in mango. To control mealy bug, it is advised to spray Dimethoate 30 EC @ 2 ml/litre of water.

### **Jammu**

The amount of rainfall received over Jammu was 14 mm (-65% large deficit) during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Jammu is below normal for week-1 and; week-2.

- Due to increase in day and night temperature, it is recommended to apply light irrigation to wheat crop or if possible give sprinkler irrigation to meet the water requirement as well as to reduce the effect of increasing heat. Application of 0.2% KCl or 400gm of Muriate of Potash in 200 litres of water per acre to avoid terminal heat stress in wheat crop is also recommended.

### **Tamil Nadu**

The amount of rainfall received over Tamil Nadu was 1.3 mm (-80% large deficit) during 01 - 09 March 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is below normal for week-1 and; above normal for week-2.

- Prevailing weather conditions are congenial for rice blast incidence in rice crop. For the management, it is advised to spray Carbendazim or Tricyclazole at 2 g/litre of water for 1 kg of seed.

### **Kerala**

0.1 mm (-99 large deficit) received over Kerala during 01 - 09 March 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is normal for week-1 and; above normal for week-2.

- During high temperature, there is a chance of thrips in paddy. To protect, it is advised to apply Thiamethoxam @ 2 g per 10 litres of water.

- Pets, domestic animals and birds should be provided with adequate drinking water and protection from the sun and heat. Adequate ventilation should be arranged in their living space. Do not let the cattle graze during hot weather.

### **Maharashtra**

2.4 mm (136% large excess) rainfall over Madhya Maharashtra; 0.8 mm (-68% large deficit) in Marathwada; 0.6 mm (-9% deficit) in Konkan region and 0.4 mm (-89% large deficit) over Vidarbha was recorded during 01 - 09 March 2023. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is above normal over Konkan and Marathwada and normal over Madhya Maharashtra and below normal over Vidarbha for week -1 and; above normal over Konkan, Vidarbha, Marathwada and Madhya Maharashtra for week -2, respectively.

#### *Vidarbha*

- The unseasonal rainfall with thunderstorm and lightning occurred at isolated places over Vidarbha has caused the damage to chickpea and lodging of wheat crop. Farmers are advised to harvest earlier sown mature wheat crop immediately and keep harvested produce safely under clear weather.
- Farmers are advised to complete the sowing of summer green gram (var. *Pusa Vaishakhi*, *PKV-AKM-4* (Vaibhav)). Under assured irrigation facility during peak summer months, sowing can be extended till 15 March.

#### *Marathwada*

- Due to forecast of light to moderate rain along with thundershower at isolated places, farmers are advised to harvest mature crops and fruits like chickpea, *rabi* sorghum, safflower, wheat, summer sesamum, turmeric, citrus, grapes etc.

#### *Madhya Maharashtra*

- Due to unseasonal rain and hailstorm in some parts of northern part of western Maharashtra, the *rabi* season crops and fruit crops were damaged due to hailstorms and animals were killed due to lightening in the rainfall and hailstorm. Farmers are advised for crop insurance.

### **Karnataka**

No rainfall was received during 01 - 09 March 2023 over Coastal Karnataka, South Interior Karnataka and North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is above normal over Coastal Karnataka, South Interior Karnataka and North Interior Karnataka for week-1 and; above normal over North Interior Karnataka, South Interior Karnataka and no rainfall over Coastal Karnataka for week-2.

#### *South Interior Karnataka*

- Due to continuous dry spell in January, the termite infestation is common in horticulture, forest tree and shrubs. Hence, to control, it is advised to apply Aldrin termiticides.



- Under prevailing weather condition, it is advised to provide irrigation in mango orchard (marble stage), for the better development of fruits.

### **Anantapur**

No rainfall received over Coastal Andhra Pradesh and Rayalaseema during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) is below normal over Rayalaseema and Coastal Andhra Pradesh for week-1 and; above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- Prevailing weather conditions are favourable for the incidence of leaf miner in groundnut grown in Ananthapuramu, Kurnool, Kadapa, Chittoor, Tirupati, Nandyal and Prakasam districts. Farmers are advised to spray Quinalphos @ 2.0 ml or Monocrotophos @ 1.0 g or Imidachloprid @ 0.3 ml or Acephate @ 1.5 g /litre of water.

### **Gujarat**

2.7 mm (2604% large excess) rainfall received over Gujarat during 01 - 09 March 2023. The extended range weather forecast (rainfall) provided for the next two weeks (10 - 16 March 2023 and 17 - 23 March 2023) over Gujarat is below normal for week-1 and; above normal for week-2.

- Due to forecast of unseasonal rainfall events in some districts, farmers are advised to keep harvested wheat product at safe places or covered with tarpaulin.

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