



## National Agromet Advisory Service Bulletin

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 22 October - 04 November 2021**

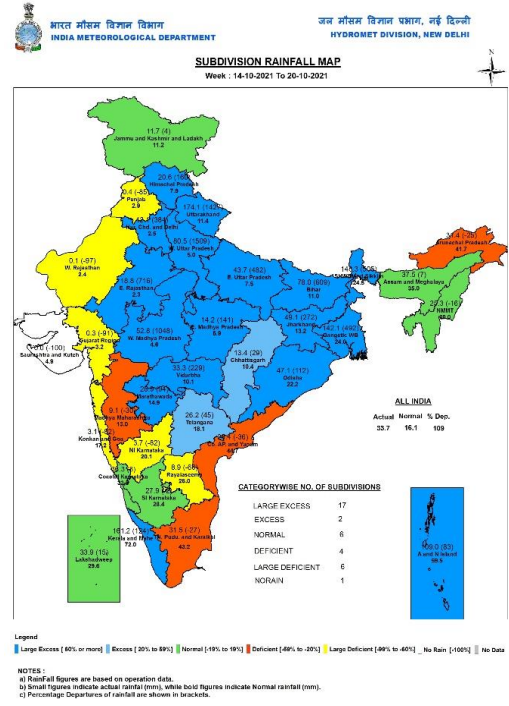
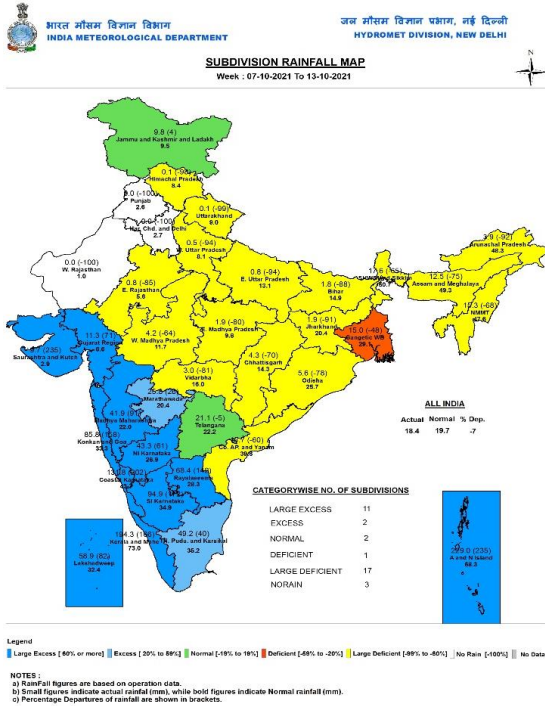
**Date of issue: 22 October 2021**

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 Temperatures)

## Realized Rainfall (7<sup>th</sup> to 20<sup>th</sup> October, 2021)



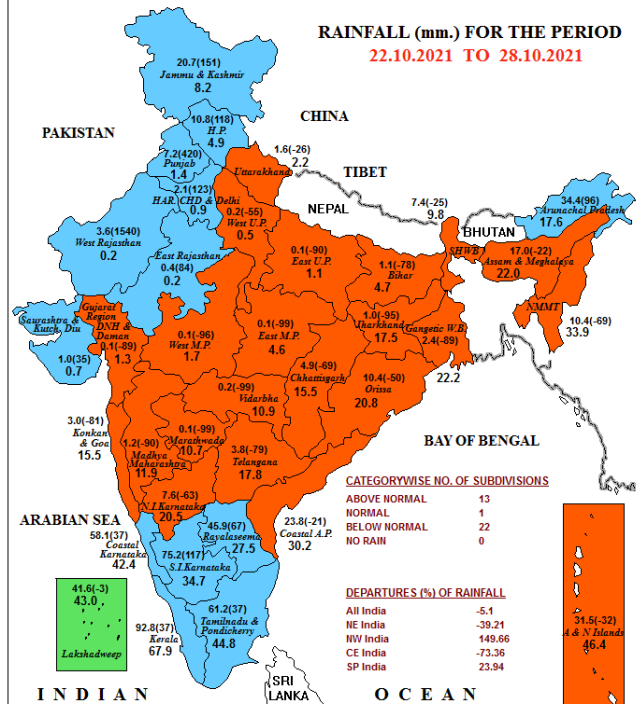
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Marathwada, Telangana, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe, Andaman & Nicobar Islands and Lakshadweep
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, Himachal Pradesh, Haryana, Chandigarh & Delhi, East Uttar Pradesh, West Uttar Pradesh, East Rajasthan, Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Assam & Meghalaya, Bihar, Jharkhand, Odisha, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Nagaland Manipur Mizoram & Tripura (NMMT), West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Rayalaseema, North Interior Karnataka and Tamil Nadu Puducherry & Karaikal.
- Below Normal rainfall /no rain occurred in both the weeks / either of the two weeks over Punjab, West Rajasthan, Arunachal Pradesh and Coastal Andhra Pradesh & Yanam.

# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 20 October) (22<sup>nd</sup> Oct. to 4<sup>th</sup> November, 2021)

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

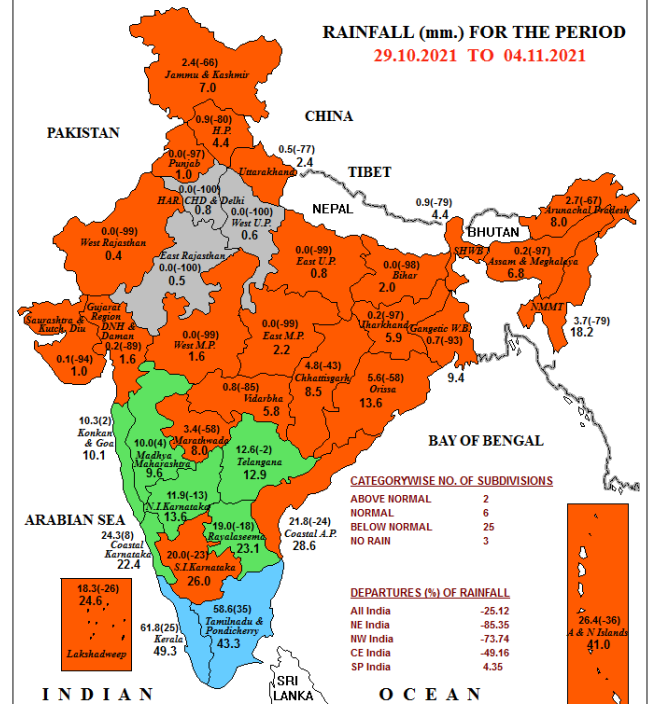


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%)  NO DATA

NOTES:  
 [a] Rainfall figures are based on MME Forecast data.  
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)  
 Percentage Departures of Rainfall are shown in Brackets.

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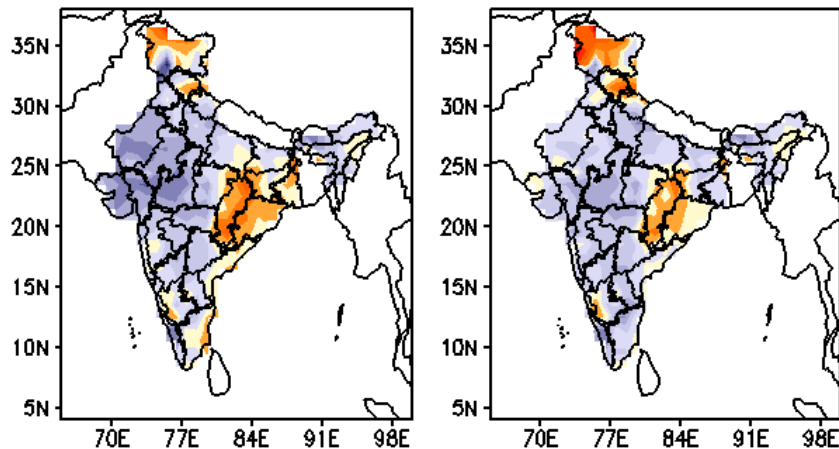
- **Week 1 (22.10.2021 to 28.10.2021):** Rainfall over northeastern, extreme north India and southern peninsula regions of India in week 1. The remaining part will be almost dry.
- **Week 2 (29.10.2021 to 04.11.2021):** Rainfall over the south peninsula will continue over some parts in week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 20 October)  
(22<sup>nd</sup> Oct. to 4<sup>th</sup> November, 2021)**

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

(Week1: 22Oct–28Oct)

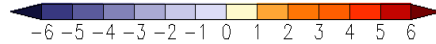
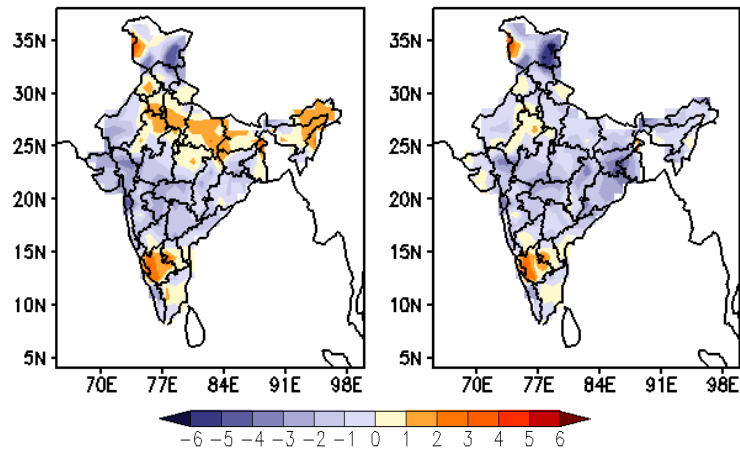
(Week2: 29Oct–04Nov)



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

(Week1: 22Oct–28Oct)

(Week2: 29Oct–04Nov)



**Maximum Temperature (Tmax)**

- **Week 1 (22.10.2021 to 28.10.2021) and Week 2 (29.10.2021 to 04.11.2021):** Mostly below normal Tmax likely over India except some parts of Odisha and Chhattisgarh region in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (22.10.2021 to 28.10.2021):** Positive Tmin anomaly likely over north India (Indo Gangetic region and adjoining northeast region) and some parts of south peninsula. Remaining part is below normal.
- **Week 2 (29.10.2021 to 04.11.2021):** Mostly normal Tmin with slight negative anomaly likely over India during the period with isolated regions have a chance of having slightly above normal Tmin.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 04 November 2021**

### **Agro-met Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 493 mm (121% large excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of rhizome rot disease in banana field. If noticed, it is advised to drench the solution of Copper oxy chloride @ 3g per litre of water.
- Due to increased relative humidity, there is chance of leaf rust disease incidence in coffee. To manage, it is advised to apply 0.5% Bordeaux mixture or Plantvax 20 EC @ 1-2 ml per litre.

#### **Tamil Nadu**

Amount of rainfall received over Tamil Nadu is 167 mm (39% large excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is congenial for mealy bug incidence in guava and mango. To manage, it is advised to apply Triazophos 2 ml + Neem oil 5 ml/litre or Phosalone 35 EC @ 1.5 ml + Neem oil 5 ml/litre.
- Prevailing weather condition is congenial for hairy caterpillar and collar rot in moringa. It is advised to collect and destroy diseased parts of the plant and spray Mancozeb @ 2g/litre of water under clear weather conditions.

#### **Maharashtra**

Rainfall received over Madhya Maharashtra is 92 mm (48% excess); Marathwada is 96 mm (57% excess); Vidarbha is 56 mm (19% excess) and Konkan region is 115 mm (17% excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Konkan, Vidarbha, Madhya Maharashtra and Marathwada is below normal for week-1 and; over Konkan and Madhya Maharashtra is normal and; Vidarbha and Marathwada is below normal for week-2.

#### *Konkan*

- Due to the chances of rise in maximum temperature, it is advised to provide irrigation to vegetable crops, turmeric, newly planted fruit crop viz., sapota, coconut, arecanut and banana orchard as per requirement.
- Because of possibility of increase in temperature, it is advised to provide clean, hygienic and plenty amount of drinking water to farm animals.

#### *Vidarbha*

- Under prevailing weather condition, it is advised to complete the sowing of rainfed chickpea

with recommended varieties viz., *Jaki 9218*, *PDKV Kanchan*, *Vijay* and wilt resistant varieties include *JAKI 9218*, *Vishal*, *ICCV-2*, *ICCV-10* etc.

- Because of dry weather in subsequent four days it is advised to clean picking of burst bolls in earlier sown cotton varieties and properly dry the produce before safe storage, variety wise.

#### *Madhya Maharashtra*

- For sowing of *rabi* sorghum, selection of improved varieties according to type of soil is advised. Recommended varieties are *Phule Anuradha*, *Phule Mauli for shallow soil*; *Phule Mauli*, *Phule Suchitra*, *Phule Chitra*, *Parbhani Moti* and *Maldandi M-35-1 for medium deep soil*; *Phule Vasudha*, *Phule Yashoda* and *CSV-22* for deep soil and *Phule Vasudha*, *Phule Revati* under irrigated condition.
- Protective spray of 5% Neemark is advised against the protection from pod borer attack in pigeon pea.

#### **Hisar**

Amount of rainfall received over Hisar is 22 mm (144% large excess) during 01 - 22 October 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Hisar is above normal for week-1 and no rainfall for week-2.

- Prevailing high humidity and favorable temperature may increase the infestation of sucking insect-pests in vegetables and fruit plants. Farmers are advised to monitor the field regularly and spray insecticides and pesticides as per recommendation during clear weather condition.
- Due to humid weather conditions, farmers are advised to keep animals under well ventilated place and provide plenty of clean drinking water and green forage as per requirement.

#### **Karnataka**

Rainfall received during 01 - 22 October 2021 over South Interior Karnataka is 217 mm (100% large excess) and North Interior Karnataka is 78 mm (-10% deficit). The extended range weather forecast (rainfall) for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over South Interior Karnataka is above normal and North Interior Karnataka is below normal for week-1 and; over South Interior Karnataka below normal and North Interior Karnataka is normal for week-2.

#### *South Interior Karnataka*

- Because of continuous rainfall, it is advised to transplant ragi seedlings wherever there is patchy stand to maintain the uniform plant populations to get higher yield.

#### *North Interior Karnataka*

- Light to moderate rainfall received in most the districts during the past 3-4 weeks, so taking advantage of the situation, sowing of *rabi* crops may be taken up immediately.

## Uttar Pradesh

Rainfall received during 01 - 22 October 2021 over East Uttar Pradesh is 88 mm (140% large excess) and West Uttar Pradesh is 89 mm (318% large excess). The extended range weather forecast (rainfall) for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and; no rainfall over West Uttar Pradesh and below normal over East Uttar Pradesh for week-2.

### Western Uttar Pradesh

- Under prevailing weather, sowing of early maturing potato is advised. The recommended varieties are *Kufri chandramukhi* and *Kufri ashoka*.
- For the management of leaf webber in pigeon pea, it is advised to spray Emamectin benzoate 5% SG @ 250 g/ha or Cypermethrin 25% EC @ 500ml/ha with 500 litres of water solution.

### Eastern Uttar Pradesh

- Intercultural operations are advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

## Jammu

Amount of rainfall received over Jammu is 30 mm (6% excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Jammu is above normal for week-1 and below normal for week-2.

- As above normal rainfall is forecasted in the coming week, it is advised to immediately thresh the harvested paddy crop and shift it to safer place.
- After receiving rainfall, farmers are advised to go for sowing of mustard crop with recommended varieties *Pusa Bold*, *RSPR-01*, *RSPR-03* and *Kranti*.

## Assam

Amount of rainfall received over Assam is 136 mm (-30% deficit) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Assam is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to continue the land preparation for rapeseed and mustard cultivation. Recommended varieties are *TS-38*, *M-27*, *TS-36*, *Jeuti*, *TS-46*, *TS-67*, *TM-2*, *PM-26*, *PM-27* etc.
- Due to occurrence of moderate level of rainfall during past week, there may be appearance of weeds in the maize field. To manage, light hoeing may be given for better control of weeds.

## **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 39 mm (-20% deficit) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Chhattisgarh is below normal for week-1 and week-2.

- Nursery sowing of winter vegetables like cauliflower, cabbage and knol khol early maturing varieties is advised.
- For the management of panicle mite in rice, spray of Abamectin @ 0.5 ml per liter of water under clear weather conditions.

## **Gujarat**

Amount of rainfall received over Gujarat is 20 mm (23% excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Gujarat is below normal for week-1 and week-2.

- Farmers are advised to prepare the land for garlic sowing. Recommended high yielding varieties are *Gujarat Garlic-3*, *Gujarat Garlic-4* and *Gujarat Junagadh Garlic-5*.
- For the management of red mites in red gram it is advised to spray 'Propargite 57% EC @ 30-40 ml/pump in clear weather condition.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 28 mm (24% excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- To utilize the residual soil moisture, sowing of early sown wheat varieties is advised. Recommended early sown varieties are *HS-542*, *HPW-360 (Him Palam Gehun 1)* and *VL-829*.
- Field preparation is advised for sowing of early mustard, pea, radish, spinach and coriander.

## **Bihar**

Amount of rainfall received over Bihar is 189 mm (229% large excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Bihar is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of garlic is advised. *Godawari (Selection-1)*, *Shweta (Selection-10)*, *Agrifound dark red (G-11)*, *Agrifound white (G-41)*, *Jamuna Safed-2 (G-50)*, *Jamuna Safed-3 (G-282)*, *Jamuna Safed-4 (G-323)*, *G-1* and *RAU (G-5)* varieties of garlic are recommended for sowing under North Bihar agro climatic condition.

## **Punjab**

Amount of rainfall received over Punjab is 14 mm (73% large excess) during 01 - 22 October 2021. The



extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Punjab is above normal for week-1 and below normal for week-2.

- It is the optimum time for sowing of late season varieties and transplanting of mid-season varieties of cauliflower and best time for sowing of spinach, fenugreek, coriander, radish, turnip, garlic and early varieties of pea.
- The climatic conditions are ideal for sowing early varieties of potato. Recommended varieties are *Kufri Surya*, *Kufri Pukhraj*, *Kufri Ashoka* and *Kufri Chandramukhi*.

### **West Bengal**

Rainfall received during 01 - 22 October 2021 over Gangetic West Bengal is 186 mm (78% large excess) and Sub-Himalayan West Bengal is 267 mm (95% large excess). The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Gangetic West Bengal and Sub-Himalayan West Bengal is below normal for week1 and; week-2.

- Present weather condition is congenial for brown plant hopper in paddy. If infestation crosses ETL, it is advised to apply Imidacloprid 17.8 SL @ 1ml per litre of water.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 111 mm (70% large excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Jharkhand is below normal for week-1 and week-2.

- Farmers wishing to cultivate rainfed wheat may collect improved seed. Recommended varieties are *K-1317*, *HD-3171*, *HI- 1612* and *Birsa gehun-3* etc.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 202 mm (544% large excess) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to prepare fields for cultivation of garlic. It is also advised that cover the cloves with soil and provide light irrigation after sowing.
- To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night.

### **Anantapur**

Rainfall received during 01 - 22 October 2021 over Rayalaseema is 110 mm (14% excess) and Coastal Andhra Pradesh and Yanam is 67 mm (-52% deficit). The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over

Rayalaseema above normal and Coastal Andhra Pradesh is below normal for week-1 and; normal over Rayalaseema and below normal over Coastal Andhra Pradesh for week-2.

- Present weather condition is favorable for leaf folder and stem borer incidence in rice in Nellore, Chittoor, Srikakulam, East Godavari, West Godavari, Prakasam, Visakhapatnam and Vizianagaram districts. For effective control, spraying of Acephate @ 1.5g or Chlorantraniliprole @ 0.4 ml/litre of water is advised.
- Present weather conditions are congenial for leaf folder and stem borer in rice in Nellore, Chittoor, Srikakulam, East Godavari, West Godavari, Prakasam, Visakhapatnam and Vizianagaram districts. For effective control of leaf folder and stem borer, spraying of Acephate @ 1.5g/litre or Chlorantraniliprole @ 0.4 ml/litre of water is advised.

### **Odisha**

Amount of rainfall received over Odisha is 77 mm (-11 deficit) during 01 - 22 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (22 - 28 October 2021 and 29 October - 04 November 2021) over Odisha is below normal for week-1 and week-2.

- To manage bacterial leaf blight in cotton, it is advised to spray Copper oxychloride 50% WP @ 600-g/acre along with Streptocycline @ 20 g/acre.
- After harvesting of blackgram and greengram, it is advised to dry the seeds until the optimum moisture content is attained and after that store it safer place.

### ***Disclaimer:***

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