



# **National Agromet Advisory Service Bulletin**

based on

## **Extended Range Weather Forecast (ERFS)**

**Validity:** 29 October - 11 November 2021

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Issued by

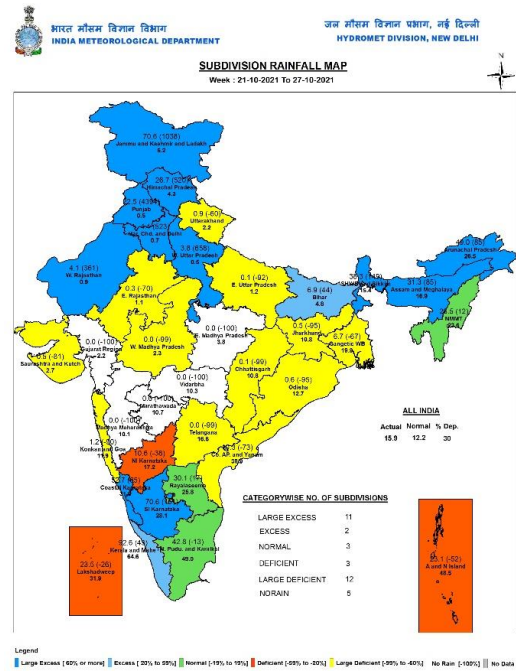
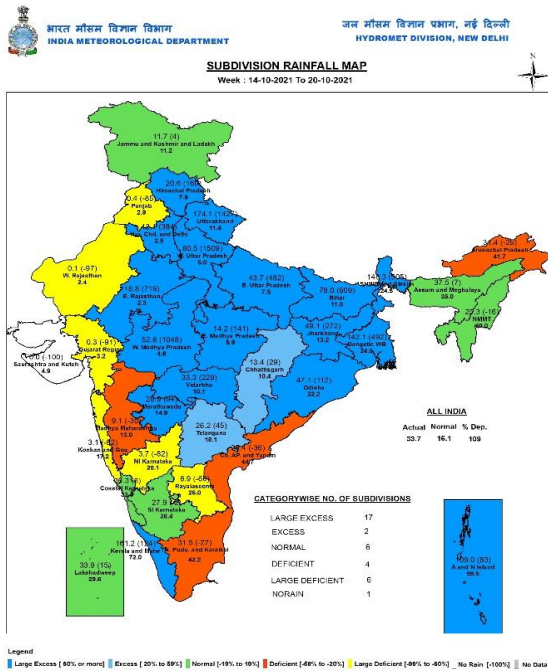
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

**India Meteorological Department (IMD),  
Earth System Science Organization**

## Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

### Realized Rainfall (14<sup>th</sup> to 27<sup>th</sup> October, 2021)



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

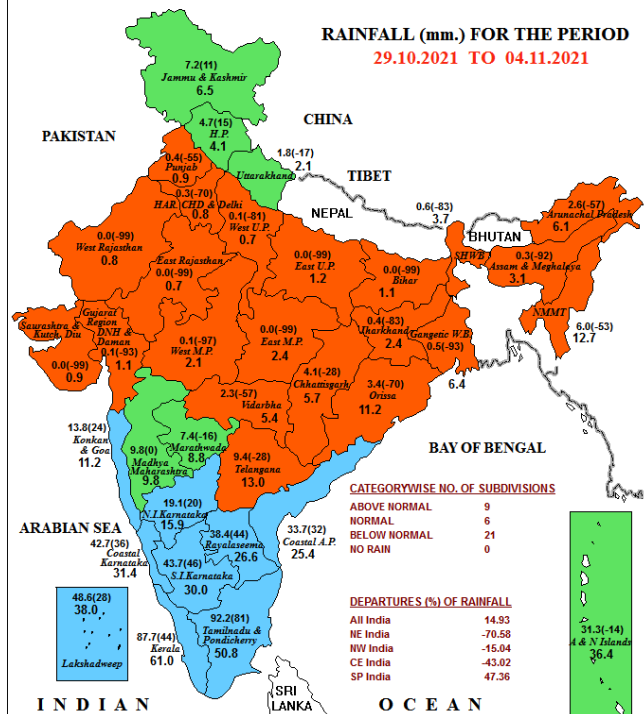
# Extended Range Forecast System

## Rainfall forecast maps for the next 2 weeks (IC – 27 October)

(29<sup>th</sup> Oct. to 11<sup>th</sup> November, 2021)

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories

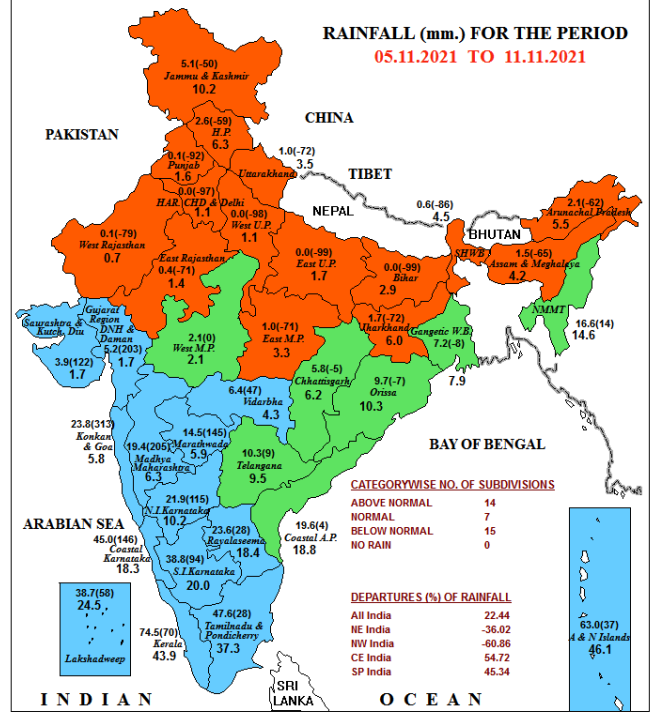


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)  
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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.

### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

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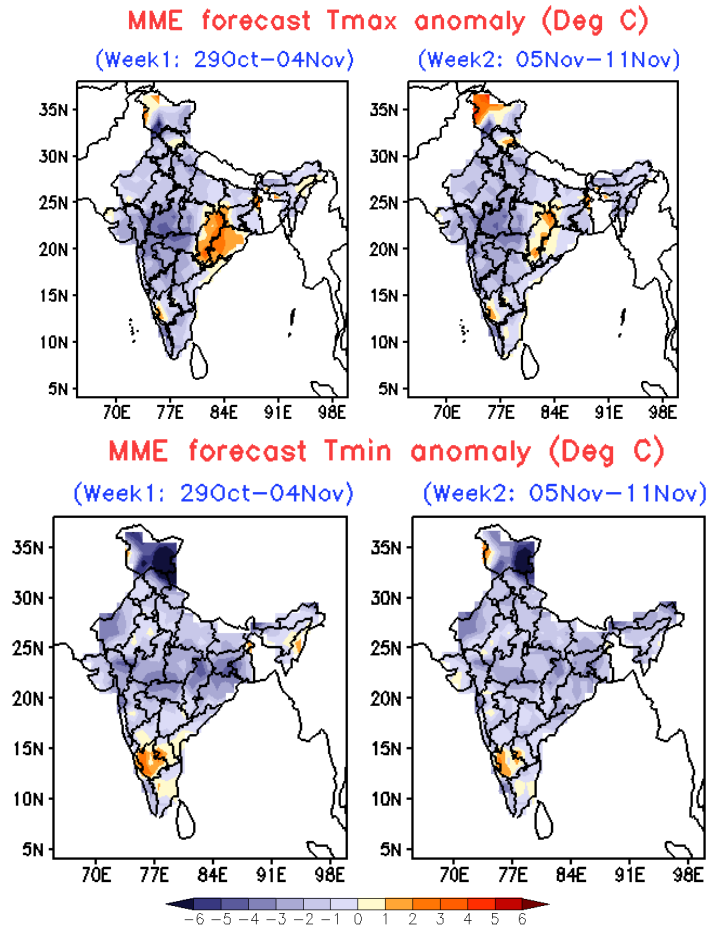


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NOTES:  
 (a) Rainfall figures are based on MME Forecast data.  
 (b) Small figures indicate actual rainfall [mm.], while bold figures indicate Normal rainfall [mm.]  
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (29.10.2021 to 04.11.2021) and Week 2 (05.11.2021 to 11.11.2021):** Active northeast monsoon condition is likely over the southern peninsula regions of India in week 1. Normal to slightly above normal rainfall is also likely during week 2 mainly over Kerala and parts of Tamil Nadu.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 27 October)  
(29<sup>th</sup> Oct. to 11<sup>th</sup> November, 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (29.10.2021 to 04.11.2021) and Week 2 (05.11.2021 to 11.11.2021):** Mostly below normal Tmax likely over India except some parts of Odisha and Chhattisgarh and extreme north India regions in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (29.10.2021 to 04.11.2021) and Week 2 (05.11.2021 to 11.11.2021):** 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 11 November 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 567 mm (106% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of stem bleeding disease in coconut palms. For precaution, it is advised to apply the 5 kg neem cake in the basin along with Trichoderma mixed with organic manures in the basins.
- Due to increased rainfall, there is chance of rhizome rot disease incidence in ginger. To manage, it is advised to apply mixture of 15 g bleaching powder and 250 g lime in to the basin of three meter square bed to avoid the spreading.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 198 mm (23% excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) is above normal for week-1 and week-2.

- Prevailing weather condition is congenial for incidence of Tristeza wilt in Acid Lime. To manage, it is advised spray of insecticide Monocrotophos 0.05 % reduces the secondary spread of the disease in the orchard.
- Prevailing weather condition is congenial for Mealy bug incidence in guava and mango. It is advised for biological control release *Cryptolaemus montrouzieri* beetles @ 10/tree or else to spray @ Triozophos 2 ml + Neem oil 5 ml per liter or Phosalone 35 EC 1.5 ml + Neem oil 5 ml for litre.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 92.3 mm (30% excess); Marathwada is 96 mm (38% excess); Vidarbha is 57 mm (no rainfall) and Konkan region is 116 mm (8% excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Konkan is above normal, Madhya Maharashtra and Marathwada is normal and Vidarbha is below normal for week-1 and; over Konkan, Madhya Maharashtra, Vidarbha and Marathwada is above normal for week-2.

#### Konkan

- Due to the chances of rise in maximum temperature, it is advised to provide irrigation to vegetables, fruit crop nursery, coconut, arecanut, sapota, banana orchard as per requirement.
- Because of possibility of increase in temperature condition is congenial for hoppers incidence, to protect the vegetative flush from hoppers incidence, spray Deltamethrin 2.8% EC @ 9 ml per 10

liters.

#### *Vidarbha*

- Under prevailing weather condition, it is advised to complete the sowing of rainfed wheat (AKDW-2997-16 (Sharad), PDKV Washim (WSM-1472), MCS-1967, NI-5439, Netravati) can preferably be sown during second fortnight of October.
- Under prevailing dry weather it is advised to for control of incidence of Phytophthora blight (stem rot or stem blight) observed in pigeon pea undertake spray of Fosetyl AL 80% WP @ 20 g in 10 liters of water.

#### *Madhya Maharashtra*

- For reducing the evaporation from the soil, organic mulching is advised in fruit crops.
- Protective spray of 5% Neemark is advised against the protection from pod borer attack in pigeon pea.

#### *Marathwada*

- For management of pigeon pea leaf roller take a spray of 5% NSKE or Quinalphos 25% @ 16 ml per 10 litres.
- Under prevailing favourable conditions irrigated Safflower crop can be sown up to 05<sup>th</sup> November.

#### **Hisar**

Amount of rainfall received over Hisar is 26 mm (178% large excess) during 01 - 28 October 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Hisar is below normal for week-1 and week-2.

- Prevailing high humidity and favorable temperature in the atmosphere may increase the infestation of sucking insect-pest. 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 were advised to keep animals under well ventilated place and provide plenty of clean drinking water and green forage as per requirement. Provide 50 g iodized salt and 50-100 g mineral mixture daily with feed to keep them healthy.

#### **Karnataka**

Rainfall received during 01 - 28 October 2021 over South Interior Karnataka is 260 mm (97% large excess) and North Interior Karnataka is 88 mm (-13% deficit). The extended range weather forecast (rainfall) for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

#### *South Interior Karnataka*

- Because of continuous rainfall, it is advised to go for mechanical or chemical weed control

measures as chances of weed problem will be more.

#### *North Interior Karnataka*

- Sowing of chickpea and wheat (irrigated and Dicocum) may be taken up as the prevailing soil moisture conditions are congenial.

#### **Uttar Pradesh**

Rainfall received during 01 - 28 October 2021 over East Uttar Pradesh is 88 mm (137% large excess) and West Uttar Pradesh is 92 mm (328% large excess). The extended range weather forecast (rainfall) for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

#### *Western Uttar Pradesh*

- Under prevailing weather conditions, farmers are advised to harvest the matured paddy crop. Conditions are favourable for incidence of army worm and to manage spray Chlorpyrifos 20 EC @ 2.5 litres per hectare.
- For the management of leaf webber in pigeon pea, it is advised to spray Emamectin benzoate 5% SG @ 250 g per ha or Cypermethrin 25% EC @ 500 ml per ha with 500 litres of water solution.

#### *Eastern Uttar Pradesh*

- As there is no rainfall forecast, farmers are advised to irrigate the long duration varieties of rice.

#### **Jammu**

Amount of rainfall received over Jammu is 101 mm (198% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Jammu is normal for week-1 and below normal for week-2.

- As above normal rainfall is forecasted for the coming week, it is advised to immediately drain out rain water in the event of heavy rainfall. It is advised to spray Dichlorvos 76EC @ 2ml per litre water to control hairy cater pillar in vegetable crops.
- Farmers may go for sowing of wheat (var. PBW-175, PBW-396, RSP-81(Jitto), WH-1080 and PBW-644) at optimum soil moisture condition.

#### **Assam**

Amount of rainfall received over Assam is 138 mm (-8% deficit) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Assam is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to look for the infestation of pod borer, aphids and jassids in pigeon pea. It is advised to go for spraying of Fenitrothion solution by mixing 130-200 ml in 65-95 liters of water.

- 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 40 mm (-32% deficit) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Chhattisgarh is below normal for week-1 and normal for week-2.

- As there is no rainfall forecast in coming week, farmers are advised to paint stem of tree by using Bordeaux mixer/ paste, maintain cleanliness in the orchard, prepare basin around the tree and apply recommended dose of manure and fertilizer.
- As there is no rainfall forecast in coming week, farmers are advised to irrigate the rice fields which is in milking stage as per requirement.

### **Gujarat**

Amount of rainfall received over Gujarat is 20 mm (13% excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Gujarat is below normal for week-1 and above normal for week-2.

- Under prevailing dry weather condition, if there is an incidence of tobacco mosaic virus in tobacco field it is advised to spray Methyl O Demeton 25 EC or Dimethoate 30 EC 15 ml in 10 litres water.
- Under prevailing dry weather condition, for the management of grubs of stem borer of mango, it is advised collect and kill them and fill the holes with Chlorpyrifos 20 EC @ 25 ml per 10 litres water and plug them with mud.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 57 mm (115% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Himachal Pradesh is 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 (211% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November



2021 and 05 - 11 November 2021) over Bihar is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of garlic is advised. *Shaktiman-1 white, Shaktiman-2 white, Shaktiman-3 yellow, Shaktiman-4 yellow, Shaktiman-5 yellow, Ganga-11 orange yellow, Rajendra sanker makka-1 Rajendra sanker makka-2, and Rajendra sanker makka deepjwala* varieties of hybrid maize and *Dewki white, Lakshmi white and Suwan yellow* varieties of composite maize are recommended for north Bihar.
- Farmers are advised to harvest and thresh the rice crop which is in maturity stage as soon as possible.

### **Punjab**

Amount of rainfall received over Punjab is 36 mm (332% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Punjab is below normal for week-1 and week-2.

- It is the optimum time for sowing of Gobhi Sarson varieties PSGH 1707, GSC 7, GSC 6, Hyola PAC 401, GSL 2 and GSL 1.
- The climatic conditions are ideal for sowing of single cut oats varieties (OL 11, OL 12, OL 13 and OL 15) and multi-cut varieties (OL 10 and OL 14).

### **West Bengal**

Rainfall received during 01 - 28 October 2021 over Gangetic West Bengal is 189 mm (59% large excess) and Sub-Himalayan West Bengal is 273 mm (84% large excess). The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Gangetic West Bengal and Sub-Himalayan West Bengal is below normal for week1 and; normal over Gangetic West Bengal and Sub-Himalayan West Bengal is below normal for week-2.

- Present weather conditions are suitable for sowing of pea. Seed should be treated with fungicides, Captan or Thiram @ 2 g per kg seed and after that with crop-specific *rhizobium* culture.

### **Jharkhand**

Amount of rainfall received over Jharkhand is 112 mm (54% excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Jharkhand is below normal for week-1 and week-2.

- Farmers wishing to cultivate linseed may collect improved seed. Recommended varieties are *Divya, Priyam, and Surbhi* etc.
- Farmers wishing to cultivate lentil crop may collect improved seed. Recommended varieties are

*H.U. L. - 57, W.B.L.-77, K.L.S.-218 etc.*

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 203 mm (505% large excess) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Uttarakhand is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, farmers are advised to start spawning and bagging of button mushrooms in low and mid hill regions. Room should be sterilized before installing the mushroom bags.
- During current weather condition, for the day-old chicks, the shed should be preheated earlier one or two days before the arrival of chicks and floor should be covered by dry grass.

### **Anantapur**

Rainfall received during 01 - 28 October 2021 over Rayalaseema is 128 mm (8% excess) and Coastal Andhra Pradesh and Yanam is 75 mm (-56% deficit). The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Rayalaseema and Coastal Andhra Pradesh is above normal for week-1 and; above normal over Rayalaseema and normal over Coastal Andhra Pradesh for week-2.

- Present weather condition is favorable for the incidence and spread of Sigatoka leaf spot disease in banana grown in Ananthapuramu, Vizianagaram, Nellore and West Godavari districts. For effective control, spraying of Propiconazole @ 0.1% (or) Tebuconazole + Trifoxystrobin @ 1ml per liter is advised.
- Present weather conditions are congenial for fall army worm in maize of Vizianagaram, Visakhapatnam, Chittoor, West Godavari, Kurnool and Ananthapuramu districts. To control fall army worm, spraying of Thiodicarb @ 2g per litre or Emamectin benzoate @ 0.4 g per litre of water is recommended.

### **Odisha**

Amount of rainfall received over Odisha is 77 mm (-20% deficit) during 01 - 28 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (29 October - 04 November 2021 and 05 - 11 November 2021) over Odisha is below normal for week-1 and normal for week-2.

- After the heavy rainfall, there may be chances of incidence of stem rot disease in groundnut. So, it is advised to spray Validamycin 3% litre @ 400 ml per acre or Captan 70% + Hexaconazole 5% @ 300 g per acre.
- After harvesting of Black gram and Green gram, it is advised to dry the seeds until the optimum moisture content is attained and after that store it in safer place.

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