



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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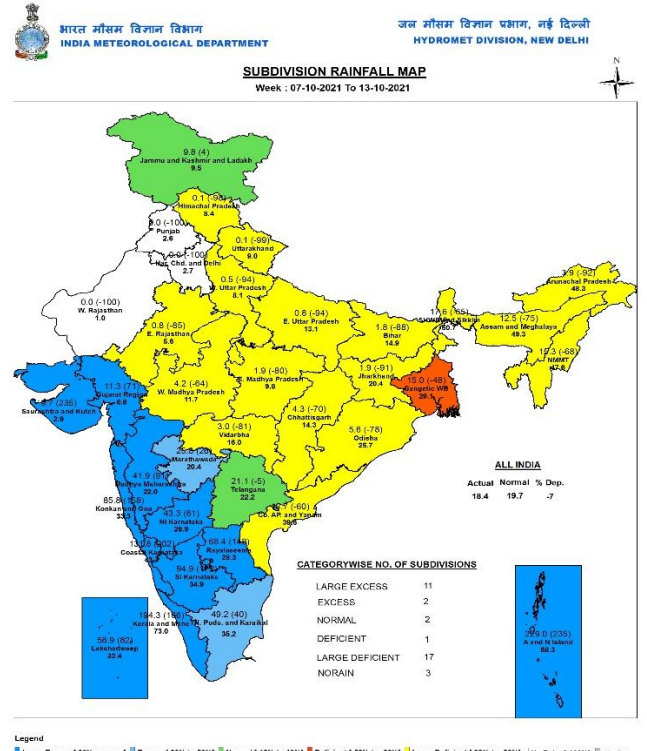
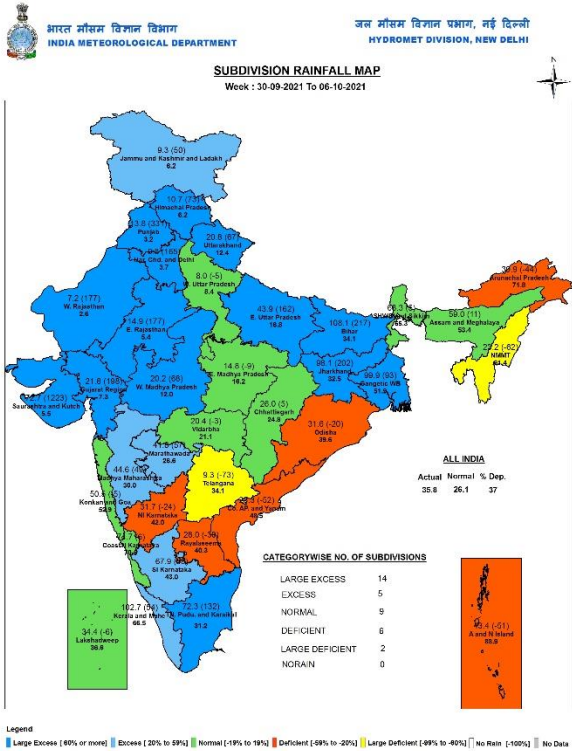
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**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall

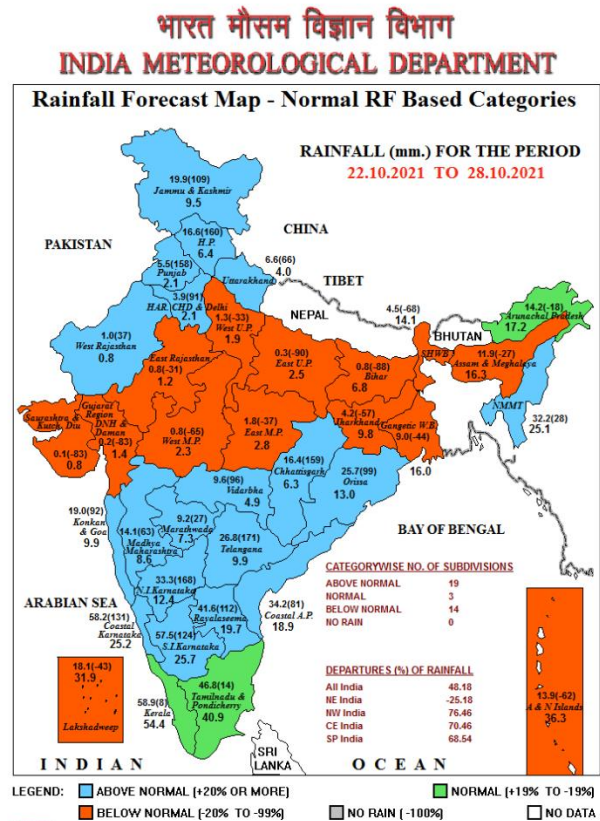
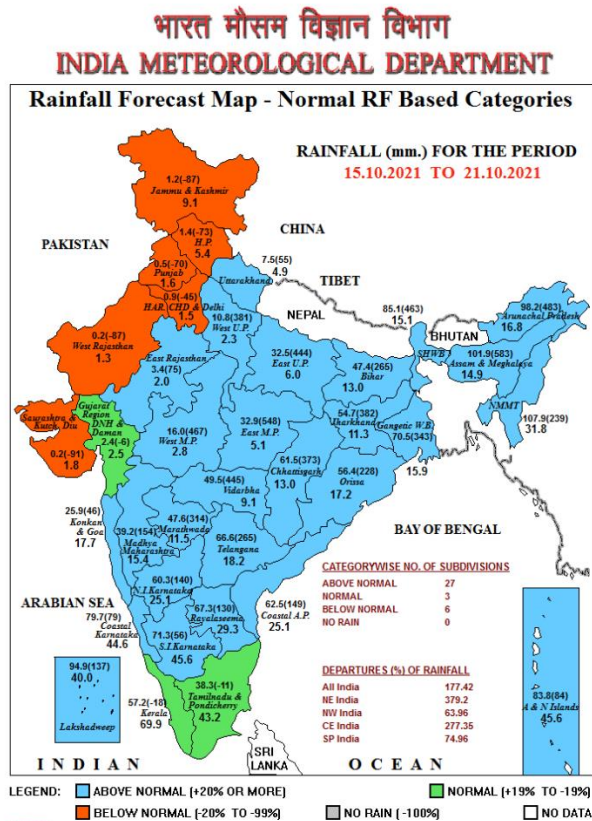
(30<sup>th</sup> September to 13<sup>th</sup> October, 2021)



- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Gujarat Region, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, Marathwada, Tamil Nadu Puducherry & Karaikal, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Lakshadweep
- Normal or above normal rainfall occurred in either of the two weeks in Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Jharkhand, Bihar, East Uttar Pradesh, West Uttar Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Punjab, Himachal Pradesh, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, Telangana, Rayalaseema, North Interior Karnataka
- Below Normal rainfall occurred in both the weeks/either of the two weeks over Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), Odisha, Coastal Andhra Pradesh & Yanam

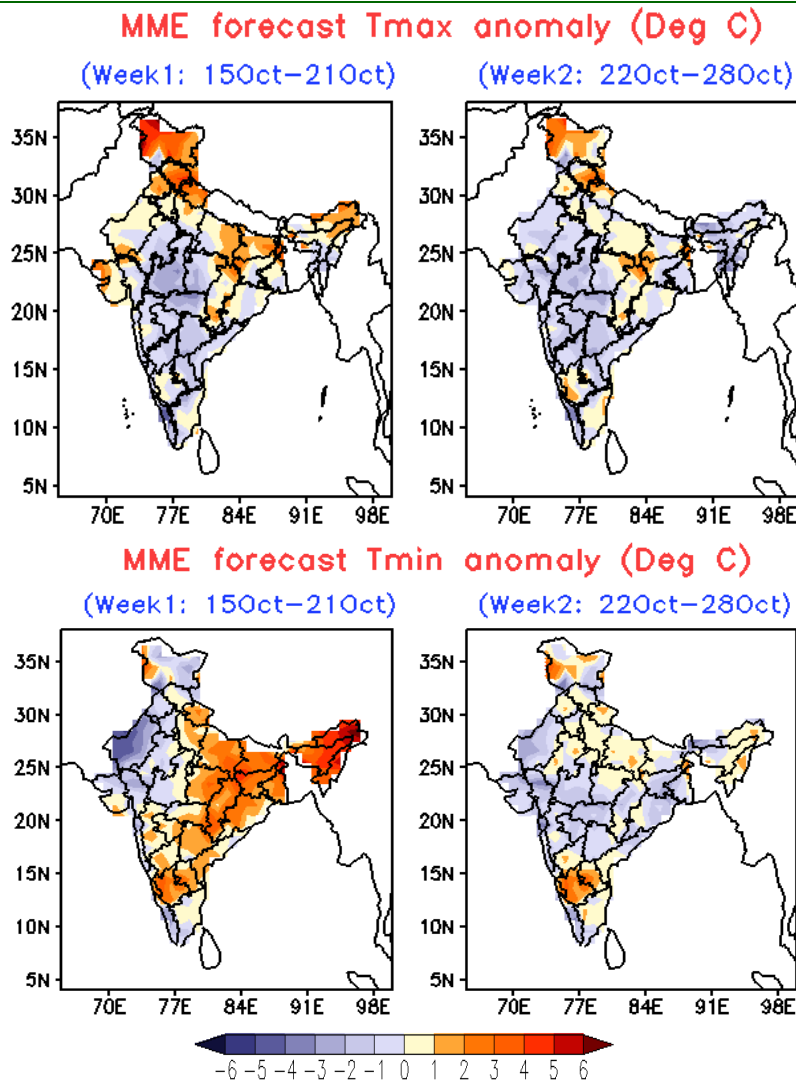
## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 13 October) (15<sup>th</sup> to 28<sup>th</sup> October, 2021)



- **Week 1 (15.10.2021 to 21.10.2021):** Rainfall will occur over eastern, north eastern and southern peninsular parts of India associated with a circulation over west central Bay of Bengal and adjoining region. Northwest India will remain dry.
- **Week 2 (22.10.2021 to 28.10.2021):** Rainfall will continue over parts of the south peninsula.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 13 October)  
(15<sup>th</sup> to 28<sup>th</sup> October, 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (15.10.2021 to 21.10.2021) and Week 2 (22.10.2021 to 28.10.2021):** Mostly below normal Tmax over India except some parts of Indo-Gangetic region, extreme north India and parts of eastern India.

**Minimum Temperature (Tmin)**

- **Week 1 (15.10.2021 to 21.10.2021):** Positive Tmin anomaly over most parts of India except some parts of northwest India with higher Tmin anomaly over north-eastern and eastern belt of India.
- **Week 2 (22.10.2021 to 28.10.2021):** Mostly normal Tmin with slight negative anomaly over Central India and slightly positive anomaly over parts of Indo-Gangetic plains.

## **Strategic Agricultural Planning based on rainfall during next two weeks till 28 October 2021**

### **Agro-met Advisories**

#### **Kerala**

Amount of rainfall received over Kerala is 332 mm (102% large excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) is normal for week-1 and week-2.

- To prevent the spread of bacterial diseases in vegetable crops due to continuous rains, it is advised to keep the fields free from water logging, or drenching with bleaching powder @ 10 g per litre.
- 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 130 mm (65% large excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) is normal for week-1 and week-2.

- Prevailing weather condition is congenial for rhinoceros beetle infestation in coconut. To manage, it is advised to apply a mixture of either neem seed powder + sand (1:2) @ 150 g per palm or neem seed kernel powder + sand (1:2) @ 150 g per palm in the base of the 3 inner most leaves in the crown.
- Prevailing weather condition is favourable 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 83 mm (76% large excess); Marathwada is 67 mm (32% excess); Vidarbha is 26 mm (-33% deficit) and Konkan region is 114 mm (37% excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Konkan, Vidarbha, Madhya Maharashtra and Marathwada is above normal for week-1; and week-2.

#### *Marathwada*

- Due to the rainfall received during last few days, it is advised to take precaution to avoid water stagnation in field crops, pulses, vegetables and fruit orchard and also remove excess water from the crop fields.
- For management of leaf roller in pigeonpea, it is advised to spray 5% NSKE or Quinalphos 25% @ 16 ml per 10 litre of water.

#### *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.
- To control incidence of phytophthora blight in pigeon pea, it is advised to spray Fosetyl-Al 80% WP@ 20 g in 10 litres of water.

#### *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 9.4 mm (47% excess) during 01 - 16 October 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Hisar is below normal for week-1 and above normal for week-2.

- Prevailing high humidity and favorable temperature may increase the infestation of sucking insect-pest 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 - 16 October 2021 over South Interior Karnataka is 178 mm (109% large excess) and North Interior Karnataka is 75 mm (5% excess). The extended range weather forecast (rainfall) for next two weeks (15 - 21 October 2021 and 22 - 28 October 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 transplant ragi seedlings wherever there is patchy stand to maintain the uniform plant populations to get higher yield.

#### *North Interior Karnataka*

- Under prevailing weather condition, land preparation for *rabi* sowing is advised.

#### **Uttar Pradesh**

Rainfall received during 01 - 16 October 2021 over East Uttar Pradesh is 44 mm (44% excess) and

West Uttar Pradesh is 8 mm (-52% deficit). The extended range weather forecast (rainfall) for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and; below normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Under prevailing weather, sowing of early potato is advised with 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.

#### **Jammu**

Amount of rainfall received over Jammu is 19 mm (normal rainfall) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Jammu is below normal for week-1 and above normal for week-2.

- Present weather condition is favorable for sheath blight and glume discolouration in late transplanted basmati rice. If observed, it is advised to apply Carbendazim @ 0.1% and Mancozeb @ 0.25% respectively.
- Under prevailing weather condition, sowing of winter potato is advised with recommended varieties are *Kufri Badshah*, *Kufri Sindhuri*, *Kufri Chipsona* and *Kufri Sona*.

#### **Assam**

Amount of rainfall received over Assam is 75 mm (-32% deficit) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Assam is above normal for week-1 and below normal for 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.
- As temperature is rising day by day, poultry farmers are advised to provide electrolyte supplement with Vitamin C and probiotics and also provide cooling facilities to the poultry birds for reducing dehydration during this heat stress condition.

#### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 28 mm (-31% deficit) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Chhattisgarh is above 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 19 mm (40% excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Gujarat is normal for week-1 and below normal for week-2.

- Farmers are advised to prepare the land for wheat crop cultivation. Recommended varieties are *GJW-463, LOK-1, GW-366, GW-496, GW-173, GW-11 and LOK-11*.
- For the management of purple blotch and fusarium wilt disease in *kharif* onion it is advised to make 3 alternate spray of Mancozeb @ 40 g and Carbendazim @ 15 g in 15 litres water at 10 days of interval in clear weather condition.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 8 mm (-53% deficit) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Himachal Pradesh is below normal for week-1 and above normal for week-2.

- Maintain room temperature 18-22 °C and relative humidity around 85% for successful cultivation of mushrooms.
- Field preparation is advised for sowing of early mustard, pea, radish, spinach and coriander.

### **Bihar**

Amount of rainfall received over Bihar is 105 mm (116% large excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Bihar is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, nursery sowing of early varieties of cabbage is advised. *Pride of India, Golden Acre, Pusa mukta, Pusa agate, and early drum head* varieties of cabbage are recommended for sowing under North Bihar agro climatic condition.
- Monitoring of *khaira* disease is advised in late transplanted paddy. If symptoms are visible, spraying of zinc sulphate @ 5.0 kg mixed with lime @ 2.5 kg in 500 litres of water per ha is advised.

### **Punjab**

Amount of rainfall received over Punjab is 13 mm (127% large excess) during 01 - 16 October 2021. The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Punjab is below normal for week-1 and above 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.

- For the management of sugarcane pyrilla, it is advised to spray Chlorpyrifos 20 EC @ 600ml/acre in 400 litres of water.

### **West Bengal**

Rainfall received during 01 - 16 October 2021 over Gangetic West Bengal is 72 mm (-10% deficit) and Sub-Himalayan West Bengal is 85 mm (-26% deficit). The extended range weather forecast (rainfall) provided for next two weeks (15 - 21 October 2021 and 22 - 28 October 2021) over Gangetic West Bengal and Sub-Himalayan West Bengal is above normal for week1 and; Gangetic West Bengal and Sub-Himalayan West Bengal below normal for week-2.

- For the management of sucking pest in chilli, it is advised to spray Neem Oil 10000 ppm @ 20ml /10 litres of water or spray Buprofezin 10 ml/10 litres of water.

### ***Disclaimer:***

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