



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

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**AICRP on Agro-Meteorology (AICRPAM),  
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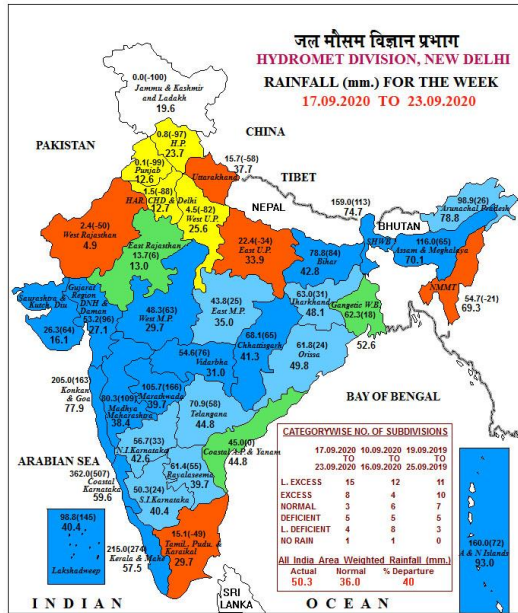
**India Meteorological Department (IMD),  
Earth System Science Organization**

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

## Realized Rainfall

(17<sup>th</sup> to 30<sup>th</sup> September, 2020)

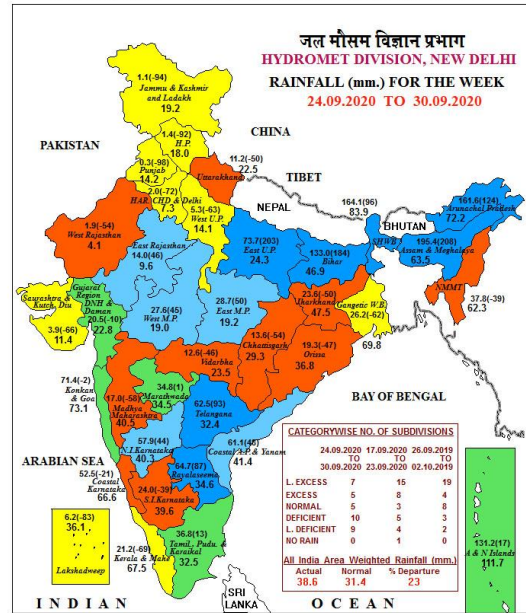
### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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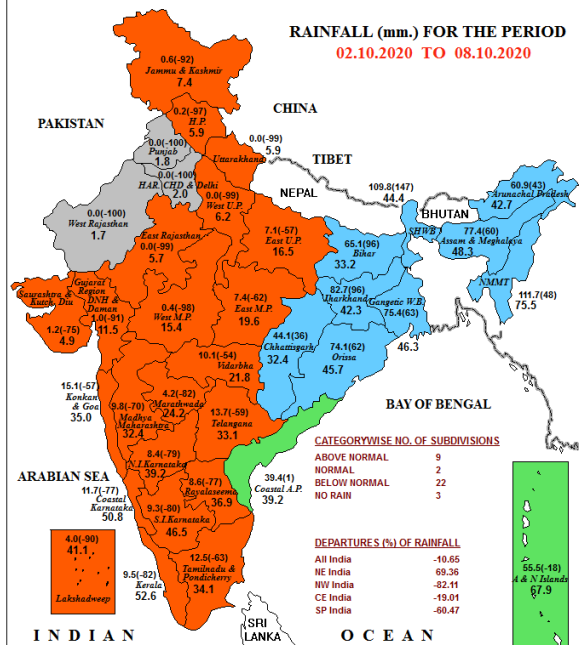
- Normal or above normal rainfall occurred in both the weeks in East Rajasthan, Arunachal Pradesh, Assam & Meghalaya, Bihar, Sub-Himalayan West Bengal & Sikkim, Gujarat Region, Madhya Pradesh, Konkan & Goa, Marathwada, Telangana, Coastal Andhra Pradesh & Yanam, Rayalaseema, North Interior Karnataka and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

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC –30 September) (2<sup>nd</sup> to 15<sup>th</sup> October, 2020)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

**Rainfall Forecast Map - Normal RF Based Categories**

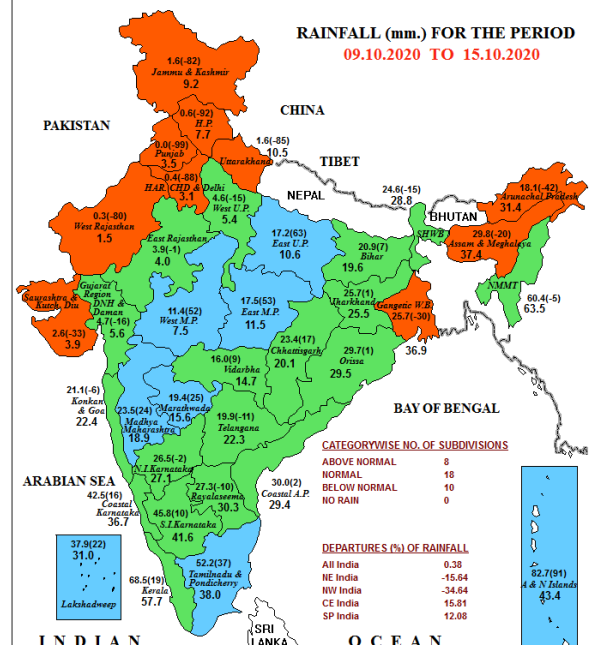


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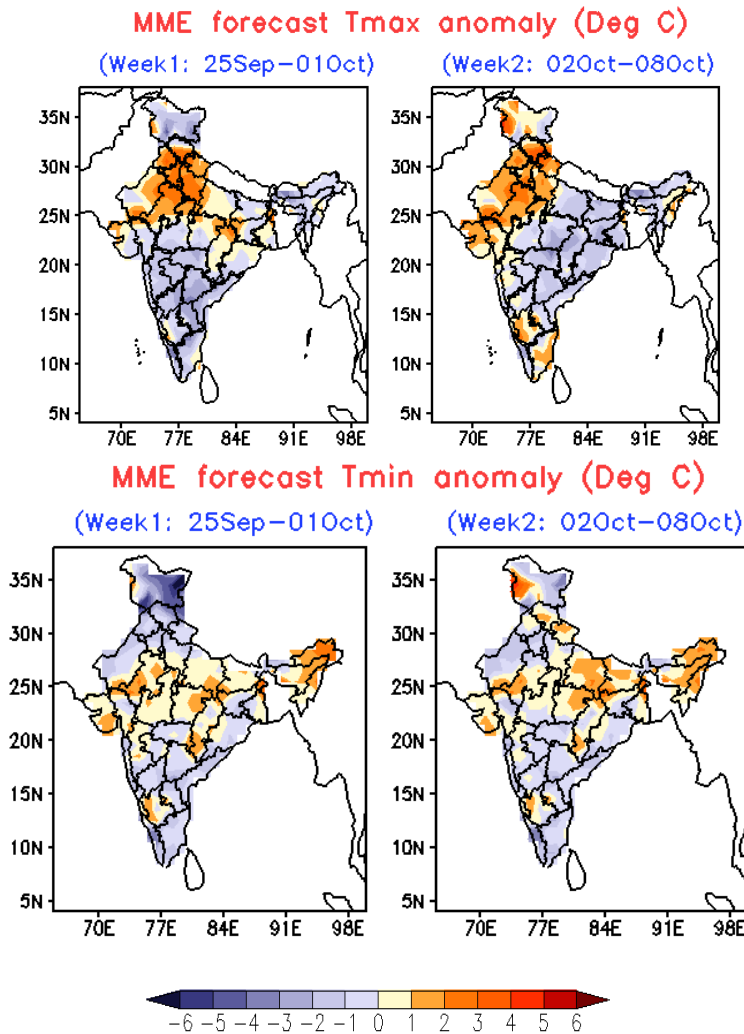


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 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.).  
 Percentage Departures of Rainfall are shown in Brackets.

- **Week 1 (02.10.2020 to 08.10.2020):** Rainfall over Northwest parts of India will remain below normal and dry weather. The eastern part of the country and adjoining Indo-Gangetic plain regions will be under the influence of cyclonic circulation during this period and will have above normal rainfall.
- **Week 2 (09.10.2020 to 15.10.2020):** Above normal rainfall likely over eastern belt of India, south Peninsula and adjoining central parts of India.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC -23 September)  
(25<sup>th</sup> Sept. to 8<sup>th</sup> October, 2020)**



**Maximum Temperature (Tmax)**

- **Week 1 (25.09.2020 to 01.10.2020) and Week 2 (02.10.2020 to 08.10.2020):** Northwest India will have above normal Tmax in week 1 and week 2.

**Minimum Temperature (Tmin)**

- **Week 1 (25.09.2020 to 01.10.2020) and Week 2 (02.10.2020 to 08.10.2020):** Except some parts of south-eastern coastal region, Northwest India and the extreme north India the Tmin will be slightly above normal over the country.

## Strategic Agricultural Planning based on rainfall during next two weeks till 15 October 2020

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 2232.9 mm (9% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast for next two weeks (02 - 08 October and 09 - 15 October 2020) is below normal for week-1 and normal for week-2.

- Under prevailing rainy weather condition, there is a chance of mosaic disease in tapioca. To control, it is advised to spray Dimethoate @ 1.5 ml per litre of water to the plant.
- For the management of white fly attack in chilli, it is advised to install yellow sticky trap in the field or apply 2% Neem oil garlic emulsion or spray *Lecanicillium lecanii* @ 20 g per one litre of water once in a week.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 441.6 mm (27% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast for next two weeks (02 - 08 October and 09 - 15 October 2020) is below normal for week-1 and above normal for week-2.

- Present weather condition is favorable for mealy bug incidence in cotton. It is advised to spray Neem oil 2% or NSKE 5% or fish oil resin soap 25g/litre of water.
- Prevailing weather condition is also congenial for mosaic incidence in gourds. It is advised to spray Monocrotophos @ 1.5 ml/litre or Chlorpyrifos 2.5 ml + Neem oil 2 ml/litre of water.
- Prevailing weather condition is favorable for smallpox and PPR diseases in goat. Farmers are advised to do proper vaccination for avoiding animal losses.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 971.0 mm (29% excess), Marathawada is 869.5 mm (29% excess), Vidharbha is 852.8 mm (-10% deficit) and Konkan region 3665.8 mm (27% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast for next two weeks (02 - 08 October and 09 - 15 October 2020) over Madhya Maharashtra, Vidharbha, Marathawada and Konkan is below normal for week-1 and over Marathawada, Madhya Maharashtra is above normal and over Konkan and Vidharbha is normal for week-2.

#### Madhya Maharashtra

- Under prevailing weather condition, sowing of safflower and sunflower is advised. Recommended varieties of safflower viz., SSF-708 and PBNS-12 and sunflower viz., Phule Bhaskar.
- For control of American army worm attack in crops, it is advised to use pheromone trap @ 5 per ha or apply 50,000 eggs of *Trichogram pritosum* or *Telenomus remus* parasite per acre three times in one-week interval.

#### Marathawada

- Due to rainy weather condition, there is a chance of *helicoverpa armigera* in *kharif* sorghum crop. To control, spray of 5% NSKE or dusting of Malathion powder 5% @ 20 kg per ha or

Malathion 50% @ 10 ml per 10 litres of water during clear weather condition is advised.

- Prevailing weather condition is also congenial for sigatoka disease in banana. For management, it is advised to spray Pyraclostrobin 20% WG @ 10 g per 10 liters of water during clear weather condition.

#### *Vidharbha*

- To avoid natural shedding of squares and flowers in cotton, spray of alpha NAA 4.5% SL @ 4 ml/10 litres of water is advised.
- Prevailing weather condition is favourable for nursery sowing of tomato, brinjal, cabbage, cauliflower, spinach, fenugreek, radish, carrot, dolichos bean and ivy gourd.

#### **Hisar**

Amount of rainfall received over Hisar is 379.8 mm (-15% deficit) during 01 June 2020 - 01 October 2020. The extended range rainfall forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) over Hisar is no rainfall for week-1 and below normal for week-2.

- Due to high humidity and favorable temperature, farmers are advised to monitor the insect-pest/diseases in rice crop.
- Due to humid weather condition, 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 June 2020 - 01 October 2020 over South Interior Karnataka is 823.9 mm (20% excess) and North Interior Karnataka is 750.0 mm (49% excess). The extended range weather forecast for next two weeks 02 - 08 October and 09 - 15 October 2020) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and normal for week-2.

#### *North Interior Karnataka*

- Farmers are also advised to sow the crops in rows across the slope to facilitate better soil moisture conservation.
- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and *haemorrhagic septicaemia*.

#### **Assam**

Amount of rainfall received over Assam is 2149.0 mm (21% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Assam is above normal for week-1 and below normal for week-2.

- Due to rainfall, high humidity and high temperature, there is a possibility of occurrence of blast and brown spot disease in Sali rice. To control, application of Carbendazim @ 1.0 g/litre of water is advised.
- Prevailing weather condition is favourable for sowing of mid season crop like cauliflower, broccoli, cabbage and knol khol seeds in nursery seed bed.

## **Uttar Pradesh**

Rainfall received during 01 June 2020 - 01 October 2020 over East Uttar Pradesh 784.8 mm (-7% deficit) and West Uttar Pradesh is 455.3 mm (-37% deficit). The extended range weather forecast for next two weeks 02 - 08 October and 09 - 15 October 2020) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and normal over West Uttar Pradesh and above normal over East Uttar Pradesh for week-2.

### *Western Uttar Pradesh*

- Under prevailing weather condition, there is a chance of leaf webber attack in pigeon pea fields. It is advised to spray Emamectin benzoate 5% SG @ 250 g/ha or Cypermethrin 25% EC @ 500 ml/ha with 500 litres water solution.
- Under prevailing weather condition, there is a possibility of pod borer attack in black gram/green gram crop. To prevent, spraying of 5% of Nibouli or Qinalfas 25 EC @ 1.2 liters/ha in 500 to 600 liters of water is advised.

### *Eastern Uttar Pradesh*

- Under prevailing dry weather condition, pulverization followed by planking for conservation of soil moisture in the field is advised for the sowing of Toria and Ageti Rai.

## **Odisha**

Amount of rainfall received over Odisha is 1170.3 mm (1% excess) during 01 June 2020 - 01 October 2020. The extended range rainfall forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) over Odisha is above normal for week-1 and normal for week-2.

- Due to rainfall, there is a chance of stem rot disease in groundnut crop. To manage, it is advised to spray Validamycin 3% L @ 400 ml/acre or Captan 70% + Hexaconazole 5% @ 300 g/acre.
- Prevailing weather condition is congenial for sucking pest in okra. To control, spray of Azadirachtin 1500 ppm @ 600 ml/acre or Thiamethoxam 25% WG @ 40 g/acre or Acetamiprid 20% SP @ 50g/acre by mixing it in 200 litres of water is advised.

## **Jammu**

Amount of rainfall received over Jammu is 376.2 mm (-34% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- For the management of plant hopper in basmati rice, it is advised to install pheromone traps @ 1/kanal or spray Imidacloprid 200 SL @ 0.25 ml/litre of water during clear weather.
- Under prevailing weather condition, sowing of winter vegetables like potato, radish, carrot, turnip, methi and spinach is advised.

## **Rajasthan**

Amount of rainfall received over East Rajasthan is 592.2 mm (-2% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and

09 - 15 October 2020) on rainfall over East Rajasthan is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, sowing of early mustard is advised with recommended varieties viz., RGN-73, Bio-902 (Pusa Jai kisan), Aashirwad, RH-9304 (Vasundhara), RH-9802 (Swarn Jyoti), RH-8812 (Laxmi), DRMRIJ-31 (Giriraj).
- Farmers are also advised for sowing of late duration cauliflower with improved varieties viz., Pusa Snowball, K-1, Hisar-1 and Selection-7.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 565.5 mm (-26% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- In mid-hill region, nursery sowing of chinese cabbage, direct sowing of radish, carrot, broccoli and lettuce is advised.
- Present weather is congenial for the attack of pink eye disease in newly born calves. It is advised to prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours.

### **Gujarat**

Amount of rainfall received over Gujarat is 1035.3 mm (12% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Gujarat is below normal for week-1 and normal for week-2.

- For the management of thrips in chilli, farmers are advised to apply 5% extract of Neem leaves or Neem based insecticide @ 20 to 40 ml/10 liters of water.
- Under prevailing weather condition, there is a chance of fruit fly in vine vegetables crop. To control, it is advised to spray solution of jaggery @ 50 g and 30 ml Malathion in 10 liters of water with large droplets.

### **Bihar**

Amount of rainfall received over Bihar is 1272.6 mm (25% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Bihar is above normal for week-1 and normal for week-2.

- Monitoring is advised for brown plant hopper (BPH) in paddy crop. If infestation is observed, spray Imidacloprid 17.8 % SC @ 1.0 ml/ 3 litres of water.
- Under present weather condition, nursery sowing of late varieties of cauliflower is advised. Recommended varieties are Maghi, Snoking, Pusa snoking-1, Pusa-2, Pusa snowball-16 and Pusa snowball K-1.

### **Punjab**

Amount of rainfall received over Punjab is 391.7 mm (-16% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15



October 2020) on rainfall over Punjab is no rainfall for week-1 and below normal for week-2.

- Under dry weather condition, farmers are advised for picking of cotton.
- For the management of fall armyworm in maize crop, it is advised to spray Coragen 18.5 SC @ 0.4 ml per litre of water or Delegate 11.7 SC @ 0.5 ml per litre or Missile 5 SG @ 0.4 g/120 litres of water per acre.

### **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 1234.6 mm (8% excess) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Chhattisgarh is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, sowing of winter vegetables like early varieties of cauliflower, cabbage and knol khol in nursery is advised.
- For the management of Indarbela quadrinotata in aonla, it is advised to keep jaggery slurry solution and some insecticide @ 1 g in small pitcher and hangs on the branches of tree.

### **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 1031.6 mm (-2% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Madhya Pradesh is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, field preparation for sowing of mustard, toria and ageti garden pea is advised.

### **Uttarakhand**

Amount of rainfall received over Uttarakhand is 943.2 mm (-20% deficit) during 01 June 2020 - 01 October 2020. The extended range weather forecast provided for next two weeks 02 - 08 October and 09 - 15 October 2020) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised for field preparation for early sowing of wheat and mustard in high altitude.
- For the management of stem borer in temperate fruits, it is advised to clean the borer's hole with a soft wire and put a piece of cotton dipped in petrol or Methyl parathion in the hole and close the hole by putting clay soil.

### **Disclaimer:**

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