



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity:** 04 - 17 September 2020

**Date of issue:** 04 September 2020

**Issued by**

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

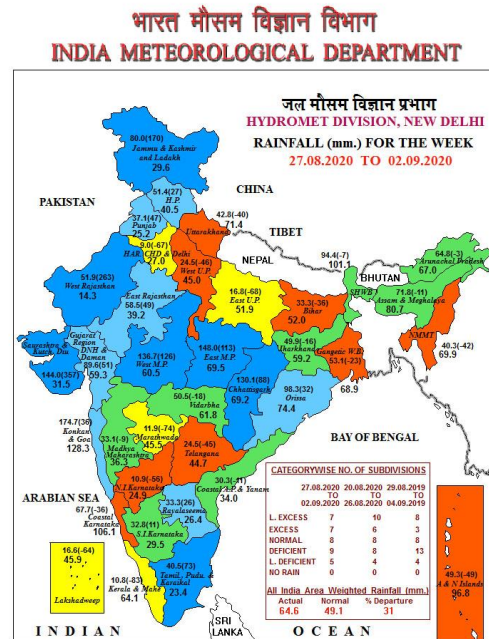
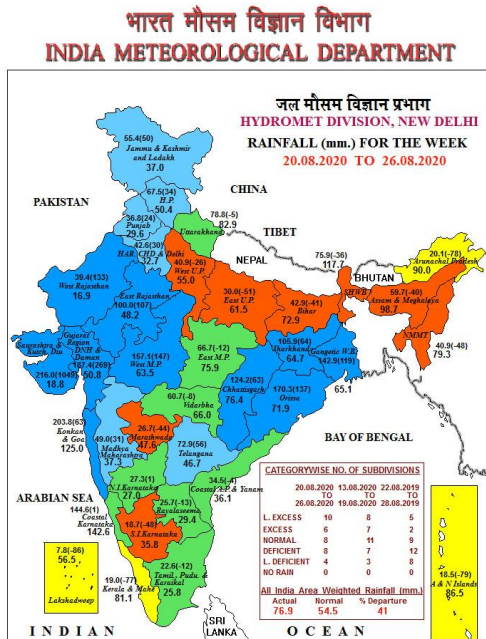
**&**

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

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

## Realized Rainfall

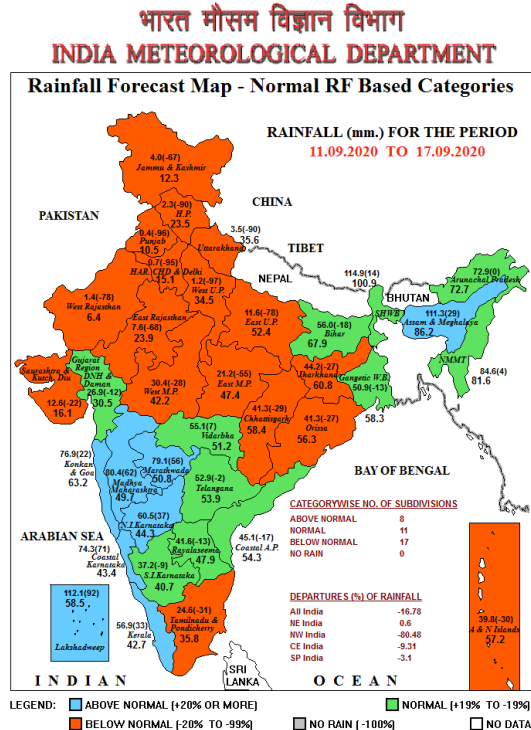
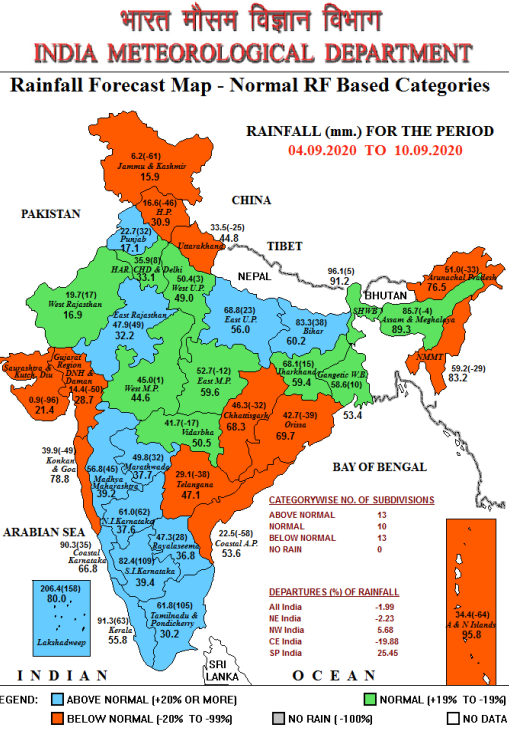
(20<sup>th</sup> August to 02<sup>nd</sup> September, 2020)



- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Punjab, Rajasthan, Madhya Pradesh, Chhattisgarh, Jharkhand, Odisha, Gujarat State, Konkan & Goa, Madhya Maharashtra and Vidarbha met subdivisions in Maharashtra, Andhra Pradesh & Yanam and, Tamil Nadu Puducherry & Karaikal.
- Normal or above normal rainfall occurred in either of the weeks in Uttarakhand, Haryana Chandigarh & Delhi, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Telangana and Karnataka.
- Below Normal rainfall occurred in both the weeks in Uttar Pradesh, Bihar, Nagaland Manipur Mizoram & Tripura (NMMT), Marathwada, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands.

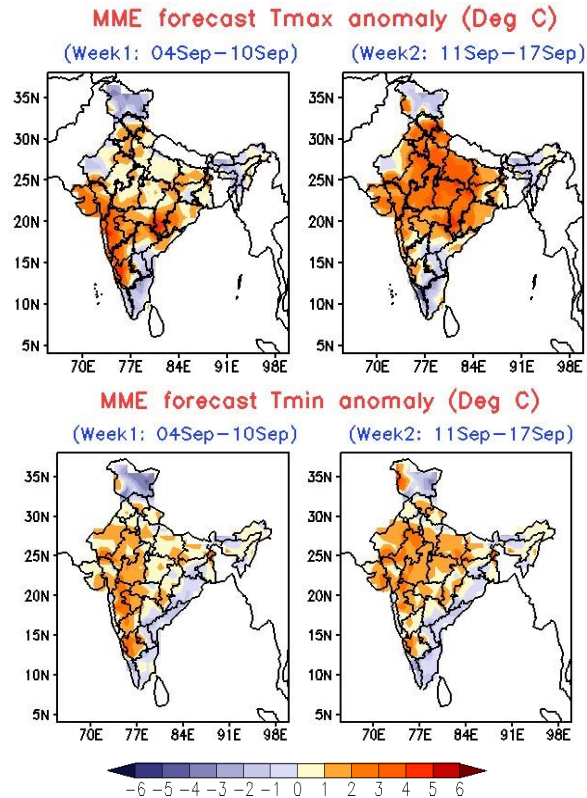
# Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -02 September)  
(04<sup>th</sup> to 17<sup>th</sup> September, 2020)



- **Week 1 (04.09.2020 to 10.09.2020):** North West India and parts of Indo-Gangetic regions (UP, Bihar and adjoining regions) will be normal to above normal rainfall. Similarly, the south peninsula will receive above normal rainfall. The eastern part of central India will have below normal rainfall.
- **Week 2 (11.09.2020 to 17.09.2020):** Mostly the rainfall will be below normal over the country except Northeast India and western and southern parts of India covering Kerala, coastal Karnataka and parts of Maharashtra.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ )  
forecast for next 2 weeks (IC -02 September)  
(04<sup>th</sup> to 17<sup>th</sup> September, 2020)**



**Maximum Temperature (Tmax)**

- **Week 1 (04.09.2020 to 10.09.2020) and Week 2 (11.09.2020 to 17.09.2020):** Mostly above normal Tmax over central Indian and northwest India during the period. The remaining regions are expected to be below normal.

**Minimum Temperature (Tmin)**

- **Week 1 (04.09.2020 to 10.09.2020) and Week 2 (11.09.2020 to 17.09.2020):** Except some parts of south-eastern coastal region the Tmin will be mostly above normal over the country.

## Strategic Agricultural Planning based on rainfall during next two weeks till 17 September 2020

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 1656.3 mm (-9% deficit) during the period of 01 June 2020 - 03 September 2020. The extended range weather forecast for next two weeks (04 - 10 September and 11 - 17 September 2020) is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of rice bug in paddy. To control, spray of Malathion @ 2 ml per litre of water is advised.
- For the management of bacterial wilt in ginger, it is advised to spray a mixture of cow dung slurry @ 20 g cow dung/litre of water and Pseudomonas solution @ 20 g/litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 331.2 mm (42% excess) during the period of 01 June 2020 - 03 September 2020. The extended range weather forecast for next two weeks (04 - 10 September and 11 - 17 September 2020) is above normal for week-1 and below normal for week-2.

- Present weather condition is favorable for tea mosquito bug and spiraling white fly incidence in guava. It is advised to spray Imidacloprid 200 SL @ 0.01% or Triazophos 40 EC @ 0.06% or Spray Neem oil 3% or NSKE 5%.
- 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.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 782.8 mm (28% excess), Marathwada is 617.1 mm (17% excess), Vidharbha is 731.8 mm (-10% deficit) and Konkan region 3225.6 mm (25% excess) during the period of 01 June 2020 - 03 September 2020. The extended range weather forecast for next two weeks (04 - 10 September and 11 - 17 September 2020) over Vidharbha is normal, Madhya Maharashtra and Marathwada is above normal and Konkan is below normal for week-1 and above normal over Konkan, Madhya Maharashtra and Marathwada and normal over Vidharbha for week-2

##### *Madhya Maharashtra*

- 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 pritiolum* or *Telenomus remus* parasite per acre three times in one-week interval.
- For the management of yellowing on soybean crop, spray of 100 g Urea + 50 g Ferrous Sulphate in 10 litres of water is advised.

##### *Marathwada*

- Incidence of pod blight disease is observed in soybean crop due to continuous rainfall. It is advised to spray Tebuconazole 10% + Sulphur 65 % @ 500 g or Tebuconazole 25.9% @ 250 ml per acre during clear weather condition.

- For the management of infestation of sucking pest in cotton crop, it is advised to spray 5% NSKE or Thiamethoxam 25 % @ 40 g/acre during clear weather.

#### *Vidharbha*

- Due to continuous rain, anhracnose, rhizoctonia root rot and rhizoctonia aerial blight are observed in soybean crop. It is advised to spray Pyroclostrobin 20% WG @ 10g or Tebuconazole 25.9% EC @ 12.5 ml or Tebuconazole 10% + Sulphur 65% WG @ 25 g or Hexaconazole 5% EC @ 16ml per 10 litres of water.
- Under the prevailing weather condition, nursery seed sowing of tomato, brinjal, cabbage, cauliflower is advised.

#### *Konkan*

- As there is a high chance of intermittent rainfall and increase in temperature, there is a possibility of incidence of blue beetle in low land rice. If incidence is noticed, spray of Quinalphos 25% EC @ 40 ml or Triazophos 40% EC @ 12.5 ml or Lambda cyhalothrin 5% EC @ 5 ml per 10 litres of water during clear weather is advised.
- For the management of shoot borer in newly planted mango orchard, spray Monocrotophos 36% SL @ 11 ml per 10 litres of water during clear weather.

#### **Hisar**

Amount of rainfall received over Hisar is 354.8 mm (-6% deficit) during of 01 June 2020 - 03 September 2020. The extended range rainfall forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) over Hisar is normal for week-1 and below normal for week-2.

- Due to humid weather condition, there may be a chance of infestation of white fly in cotton. If infestation is above ETL, then spray of Nimicidine @ 1 litre with 250 litres of water per acre is advised.
- 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 June 2020 - 03 September 2020 over South Interior Karnataka is 635.4 mm (16% excess) and North Interior Karnataka is 527.5 mm (45% excess). The extended range weather forecast for next two weeks (04 - 10 September and 11 - 17 September 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka for week-2.

#### *South Interior Karnataka*

- Due to continuous rainfall, farmers are advised for transplanting of ragi seedlings for gap filling and maintain uniform plant population.
- Farmers are advised for earthing up in long duration crops like redgram, maize and castor for

better soil moisture conservation.

- Under prevailing weather condition, there is a chance of wilt disease in redgram. It is advised for drenching with Carbendazim 50 WP @ 2 g/litre of water. Remove and burn the infected plants in the field itself.

#### *North Interior Karnataka*

- Under prevailing rainy weather condition, sowing of sunflower, sorghum, cotton and fodder crops is recommended.
- 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 1632.6 mm (10% excess) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Assam is normal for week-1 and above normal for week-2.

- Due to favorable weather condition, there is a chance of infestation of stem borer in Sali rice. To control, it is advised to spray Quinalphos 25EC @ 1ml/litre of water during rain-free weather.
- Monitoring for the infestation of trunk borer in citrus is advised. If infestation observed, farmers are advised to go for proper pruning and training to minimize the pest infestation.

#### **Uttar Pradesh**

Rainfall received during of 01 June 2020 - 03 September 2020 over East Uttar Pradesh 665.3 mm (-2% deficit) and West Uttar Pradesh is 436.7 mm (-27% deficit). The extended range weather forecast for next two weeks (04 - 10 September and 11 - 17 September 2020) over East Uttar Pradesh is above normal and West Uttar Pradesh is normal for week-1 and below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Due to higher chances of rainfall, farmers are advised to postpone irrigation and make the proper arrangement for drainage in all pulse, maize fields and vegetable nurseries.
- 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 @ 250g/ha or Cypermethrin 25% EC @ 500 ml/ha with 500 litre water solution.

## Odisha

Amount of rainfall received over Odisha is 1011.5 mm (6% excess) during of 01 June 2020 - 03 September 2020. The extended range rainfall forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) over Odisha is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of tikka disease incidence in groundnut crop. To manage, it is advised to spray Chlorothalonil 75% WP @ 400 g/acre or Mancozeb 75% WP @ 600 g/acre or Hexaconazole 5% EC @ 300 ml/acre.
- Prevailing weather condition is congenial for sucking pest in okra. To control, spray of Azadirachtin 1500 ppm @ 600 ml/acre by mixing it in 200 litres of water is advised.

## West Bengal

Amount of rainfall received over West Bengal is 925.7 mm (-1% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over West Bengal is normal for week-1 and week-2.

- For the management of fruit borer and shoot borer in brinjal, farmers are advised to apply Triazophos 40 EC @ 1.5 ml or Spinosad 45 EC @ 0.2 ml or Cartap Hydrochloride @ 0.75 g per litre of water.

## Jammu

Amount of rainfall received over Jammu is 351.1 mm (-26% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for hairy caterpillar in *kharif* pulse crops. Farmers are advised to spray Quinalphos @ 0.03% or Dichlorvos @ 0.05%.
- Under prevailing weather condition, farmers are advised to sow direct sown vegetables like methi, spinach beet, coriander, radish, carrot, beet root and spinach within first fortnight of September for better germination.

## Rajasthan

Amount of rainfall received over East Rajasthan is 517.1 mm (-2% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over East Rajasthan is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of fall army worm in maize. To control, farmers are advised for foliar spray of Emamectin benzoate 5 SG @ 0.4 g/litre of water.
- For the control of yellow mosaic virus in soybean and in pulse crop, spray of Dimethoate 30 E.C. or Methyaldemeton 25 E.C. @ 500-600 ml/ha is advised.



## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 540.5 mm (-17% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to resume picking in tea at 8-10 days interval to maintain the quality and productivity.
- It is advised to use mulches for soil moisture conservation especially in rainfed areas.
- In mid-hill region, root slips of setaria and hathi grass is advised to plant in grasslands.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 891.3 mm (-12% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- For the management of hopper in paddy crop, spray Buprofezin 25S C @ 800 ml/ha or Imidacloprid 17.8SL @125ml/ha during no rain days.
- Under the prevailing weather condition, there is a chance of stem borer in finger millet. To control, it is advised to spray Chloropyrifos 20 EC @ 2.5 litres per ha or Imidacloprid @ 3 ml per 10 litres of water.

## **Punjab**

Amount of rainfall received over Punjab is 370.2 mm (-10% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Punjab is above normal for week-1 and below normal for week-2.

- Farmers are advised to regularly monitor the fungal foliar leaf spots in cotton crop. If disease is noticed, spray Amistar Top @ 200 ml in 200 litres of water per acre.
- Prevailing weather condition is highly suitable for planting fruit plants such as citrus, mango, litchi, guava, papaya, jamun, sapota, amla.

## **Madhya Pradesh**

Amount of rainfall received over Madhya Pradesh is 911.4 mm (4% excess) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised for proper drainage facilities in pulses, oilseeds and vegetable fields.

- To control white fly in soybean/mung/urd bean crops, it is advised to install yellow sticky traps in fields and rouge out mosaic infected plants from the fields.

## **Gujarat**

Amount of rainfall received over Gujarat is 926.4 mm (17% excess) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Gujarat is below normal for week-1 and normal for week-2.

- For the management of psylla and thrips in lemon orchard, spray Imidacloprid 30.5 % @ 5 ml per 10 liters of water.
- Under prevailing weather condition, there is a chance of purple blotch blight and fusarium wilt disease in *kharif* onion. To control, it is advised to spray Mencozeb 25 g and Carbendazim 10 g per 10 litres of water at ten days interval.

## **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 1090.8 mm (13% excess) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- Due to continuous rainfall and cloudy weather, there is a possibility of yellow stem borer infestation in paddy crop. To control, it is advised to spray Fipronil 5 % S.C @ 1 litre per ha.
- For the management of leaf caterpillar and girdle beetle in soybean crop, it is advised to apply Trizophos 40% EC in 1 litre/ha or Flubendiamide 39.35% SC 150 ml/500 litres per ha.

## **Bihar**

Amount of rainfall received over Bihar is 970.9 mm (22% excess) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Bihar is above normal for week-1 and normal for week-2.

- Monitoring is advised for the infestation of stem borer in paddy crop. If infestation is observed, application of Cartap hydrochloride 4G (Caldan) @ 10kg/acre is advised.
- Under prevailing weather condition, there may be a chance of yellow vein mosaic virus disease in green gram and black gram. To control, spray Imidacloprid @ 0.3ml/litre of water in clear days.

## **Jharkhand**

Amount of rainfall received over Jharkhand is 774.4 mm (-9% deficit) during of 01 June 2020 - 03 September 2020. The extended range weather forecast provided for next two weeks (04 - 10 September and 11 - 17 September 2020) on rainfall over Jharkhand is normal for week-1 and below normal for week-2.

- Prevailing weather condition is favorable for cultivation of early potato with recommended early varieties Kufri Ashoka and Kufri Pukhraj.
- Prevailing weather condition is congenial for the attack of gundhi bug insect in rice. To control, dusting of Chlorpyrifos or Quinolphos or Methyl Parathion dust @ 10 kg per acre is advised.

***Disclaimer:***

*The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information presented in this bulletin.*