



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity: 06 - 19 August 2021**

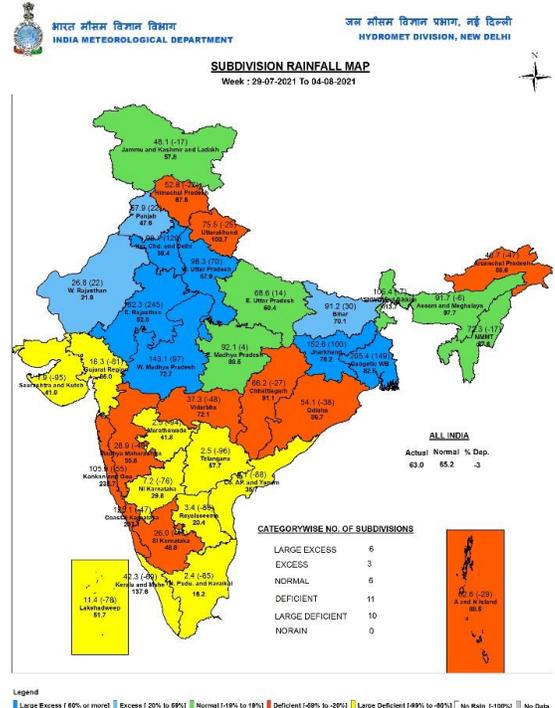
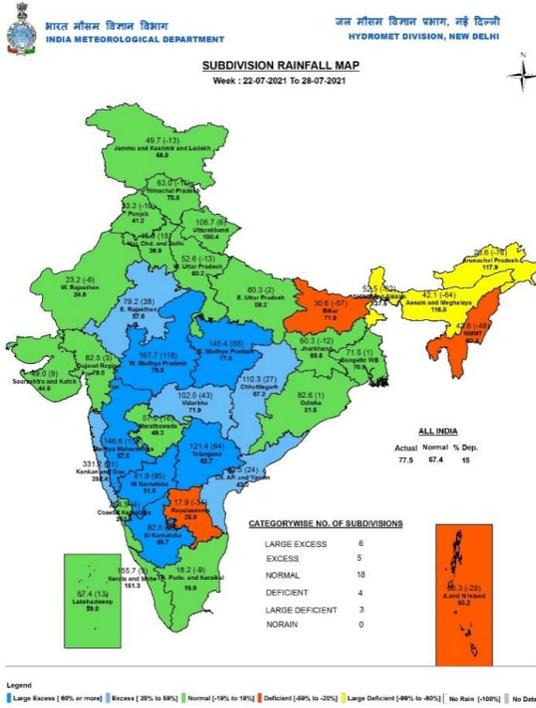
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# Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

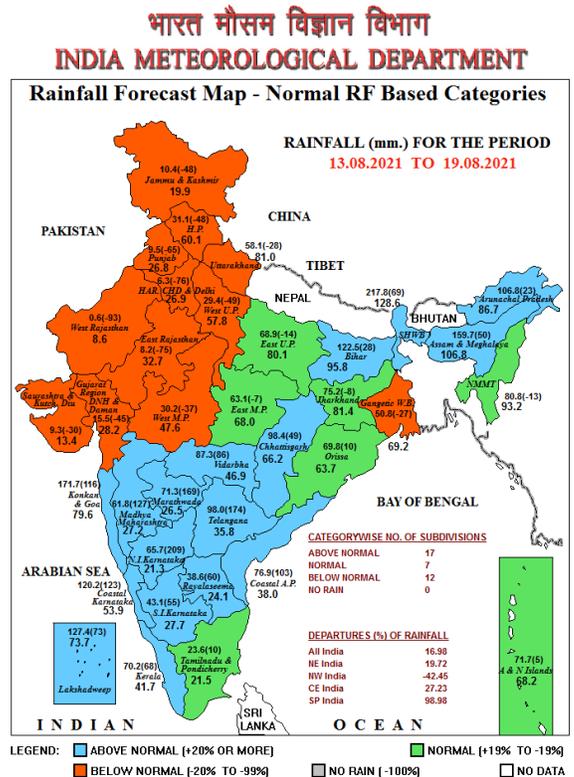
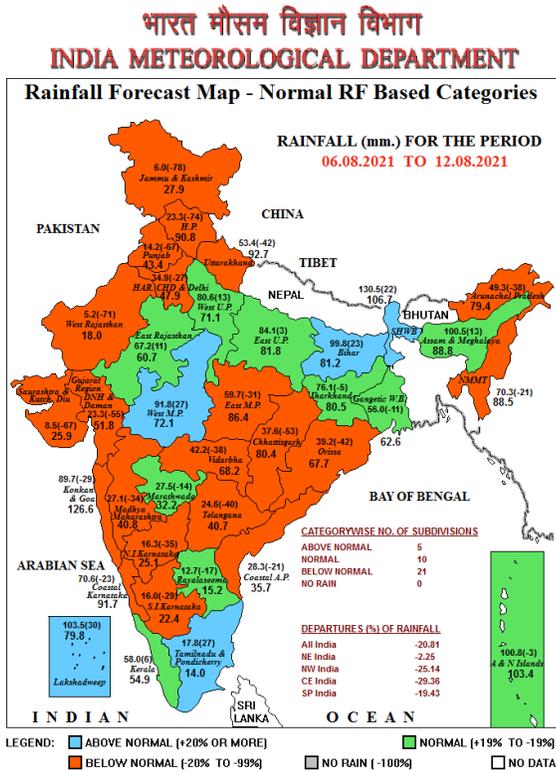
## Realized Rainfall (22<sup>nd</sup> July to 4<sup>th</sup> August, 2021)



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

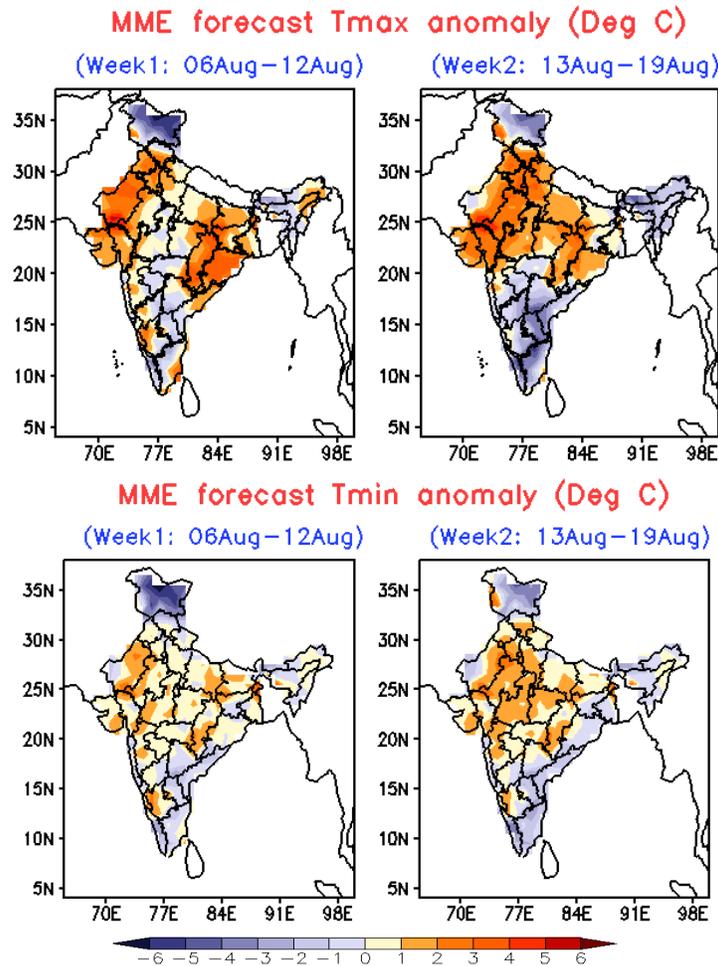
## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC – 04 August) (6<sup>th</sup> to 19<sup>th</sup> August, 2021)



- **Week 1 (06.08.2021 to 12.08.2021):** Positive rainfall anomaly over some parts of north Madhya Pradesh and adjoining Uttar Pradesh, Bihar, parts of northern Jharkhand, Sub-Himalayan West Bengal and adjoining northeast India in week 1. Most of the remaining parts of India will have below normal rainfall during the week.
- **Week 2 (13.08.2021 to 19.08.2021):** Weak rainfall over northwest India and adjoining parts of central India will continue in week 2. Monsoon is likely to revive from the southern peninsula in week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 04 August)  
(6<sup>th</sup> to 19<sup>th</sup> August, 2021)**



**Maximum Temperature (Tmax)**

- **Week 1 (06.08.2021 to 12.08.2021) and Week 2 (13.08.2021 to 19.08.2021):** Mainly above normal Tmax likely in week 1 over Northwest India and eastern parts of India in week 1. In week 2 more parts of central India will also having above normal Tmax with southern parts having slightly below normal Tmax.

**Minimum Temperature (Tmin)**

- **Week 1 (06.08.2021 to 12.08.2021) and Week 2 (13.08.2021 to 19.08.2021):** Positive Tmin anomaly over northwest and adjoining parts of India in week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 19 August 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 1050.0 mm (-28% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) is normal for week-1 and above normal for week-2.

- During rainy season, there is a chance of leaf blotch in turmeric. To control, it is advised to spray Contaf (Hexaconazole) @ 2 ml in one litre of water.
- After having rains, there may be increase in caterpillars of various pests in vegetable fields. To manage, it is advised to spray *Beauveria bassiana* @ 20 g per litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 190.4 mm (37% excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) is above normal for week-1 and normal for week-2.

- Prevailing weather condition is favourable for aphids and thrips incidence in chilli. To manage, it is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarina poles.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 190.4 mm (17% excess), Marathwada is 426.3 mm (21% excess), Vidarbha is 515.4 mm (-5% deficit) and Konkan region 2494.7 mm (28% excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Marathwada is normal, over Konkan, Vidharbha and Madhya Maharashtra is below normal for week-1 and over above normal over Konkan, Vidharbha, Madhya Maharashtra and Marathwada for week-2.

#### Marathwada

- Due to rainy and humid weather condition, there is a chance of aphids in black gram/green gram. For management, it is advised to spray 5% NSKE or Dimethoate 30% @ 240 ml per acre during clear weather condition.
- Due to chances of high wind speed, it is advised to provide support with the help of stick to newly planted pomegranate plants and harvest the mature pomegranate fruits.

#### Vidharbha

- For the management of girdle beetle in soybean crop, it is advised to spray Chlorantraniliprole 18.5% SC @ 3.0 ml or Thiomethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC or Ethion 50%

EC 30 ml per 10 litres of water during clear weather condition.

#### *Madhya Maharashtra*

- For the biological management of mealy bugs in custard apple, it is advised to spray *Verticilliumlicani* @ 50 g per litre of water and destroy the infested fruits and leaves by burning.

#### *Konkan*

- Under prevailing condition of continuous heavy rain, there is a possibility of bud rot fungal disease in young coconut palms. If incidence is noticed, it is advised to spray 1% bordomixture mixing with sticker on to crown region during clear weather.
- For the management of red pumpkin beetle in cucurbitaceous crops, it is advised to spray Dimethoate 30% EC @ 15 ml per 10 litres of water during clear weather.

#### **Hisar**

Amount of rainfall received over Hisar is 333.3 mm (37% excess) during 01 June 2021 - 06 August 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Hisar is below normal for week-1 and week-2.

- Due to chances of anticipated weather and rainfall, farmers are advised to withhold sowing of *kharif* crops and irrigation in existing crops.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

#### **Karnataka**

Rainfall received during 01 June 2021 - 06 August 2021 over South Interior Karnataka is 459.8 mm (15% excess) and North Interior Karnataka is 363.3 mm (41% excess). The extended range weather forecast (rainfall) for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and above normal for week-2.

#### *North Interior Karnataka*

- Under prevailing weather condition, complete the sowing of bajra, pigeonpea, groundnut (bunch type), green gram, maize, Bt. cotton, chilli, onion, sesamum, and navane at the earliest possible.
- Vaccinate the livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic septicaemia*.

#### *South Interior Karnataka*

- Due to high wind speed, it is advised to postpone the spraying operation in crop fields and horticultural crops and also provide staking support to banana and vegetable crops to protect from uprooting.
- Earthing up is advised in long duration crops like redgram and castor crops, for better

availability of soil moisture.

### **Uttar Pradesh**

Rainfall received during 01 June 2021 - 06 August 2021 over East Uttar Pradesh 443.5 mm (2% excess) and West Uttar Pradesh is 340.5 mm (-8% deficit). The extended range weather forecast (rainfall) for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over East Uttar Pradesh and West Uttar Pradesh is normal for week-1 and normal over East Uttar Pradesh and below normal over West Uttar Pradesh for week-2.

#### *Western Uttar Pradesh*

- Due to the chances of rainfall, farmers are advised to do proper arrangement for drainage in all vegetables, pulse, maize and nurseries of the crops.

### **Jammu**

Amount of rainfall received over Jammu is 279.0 mm (-13% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Jammu is below normal for week-1 and week-2.

- For the management of stem borer in maize, it is advised to apply Cartap hydrochloride/Carbofuran granules @ 5 g/plant during clear weather.

### **West Bengal**

Amount of rainfall received over West Bengal is 859.9 mm (30% excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over West Bengal is normal for week-1 and below normal for week-2.

- Due to extreme heavy rainfall, it is advised to drain out excess water immediately from the nursery and main fields of Aman rice, and rearrange the bunds of the fields.
- For the management of fruit and shoot borer in brinjal crop, it is advised to collect and destroy affected shoots / fruits. It also advised to spray Carbaryl 50 WP @ 2 g/litre of water.

### **Odisha**

Amount of rainfall received over Odisha is 473.2 mm (-26% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Odisha is below normal for week-1 and normal for week-2.

- For the management of panama wilt disease in banana, it is advised to select disease free planting material and resistant cultivars like Bantal, Robusta, Champa, Kabuli etc.
- Prevailing weather is optimum for sowing of sesame crop. Recommended high yielding varieties are Prachi, Kalika, Kanak, and Vinayak.

## **Assam**

Amount of rainfall received over Assam is 850.5 mm (-25% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Assam is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, sowing of seeds of early cauliflower is advised. Recommended early varieties are Early Kunwari, Pusa Katki and Pusa Deepali.
- Continuous rainfall and water stagnation may cause red rot disease in sugarcane orchard. To avoid, it is advised to drain out excess water and remove the affected parts of sugarcane.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 694.0 mm (4% excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Uttarakhand is below normal for week-1 and week-2.

- Due to warm and humid weather condition, regular monitoring of the insect pest in the field crops is advised. Apply bioagents like *Beauveria bassiana*, *Bacillus thuringiensis*, *Trichogramma* for managing insect pests.

## **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 602.1 mm (-7% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Chhattisgarh is below normal for week-1 and above normal for week-2.

- Due to the possibility of heavy rainfall, farmers are advised not to spray herbicides and drain out excess rain water from the fields in case of heavy rain.
- Prevailing weather is suitable for planting of agroforestry trees and fruit plants like papaya, mango, guava and banana etc.

## **Madhya Pradesh**

Amount of rainfall received over East Madhya Pradesh is 536.4 mm (-5% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Madhya Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to prepare drainage channels to remove excess water from the pigeonpea fields.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

## **Gujarat**

Amount of rainfall received over Gujarat is 335.0 mm (-39% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Gujarat is below normal for week-1 and week-2.

- For the management of sucking pest in cotton, it is advised to spray Neem oil 1500 ppm @ 40 ml/10 litres water or spray Trizophos 40 EC @ 15 ml/10 litres water or Acephate 75 SP @ 15g/10 litres water.

### **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 301.8 mm (65% large excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Andhra Pradesh is normal for week-1 and above normal for week-2.

- Prevailing weather condition is favourable for Cercospora leaf spot disease in black gram crop. To manage, it is advised to spray Mancozeb @ 2g or Copper oxychloride @ 3 g per litre of water.
- Current weather condition is congenial for collar rot disease in groundnut. For effective control, it is advised to drench the soil with Carbendazim @ 1g or Mancozeb @ 3 g/litre of water.

### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 395.8 mm (-8% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Himachal Pradesh is below normal for week-1 and week-2.

- Farmers willing to establish new orchards during this rainy season are advised to transplant fruit saplings of mango, litchi, guava, papaya, pecanut and kagzi lime.
- In mid-hill regions, root slips of setaria and napier grass may be planted in grasslands.

### **Punjab**

Amount of rainfall received over Punjab is 251.4 mm (-6% deficit) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Punjab is below normal for week-1 and week-2.

- Prevailing weather condition is favourable for fruit rot and die back disease in chilli. To protect, it is advised to spray Folicur @ 250 ml or Indofil M 45 @ 750 g or Blitox in 250 litres of water per acre during clear weather.
- Under heavy rains, it is advised to drain out the excess water from fruit orchards and apply white wash mixture containing copper sulphate on the main trunks of fruit trees to protect them from diseases.

## **Jharkhand**

Amount of rainfall received over Jharkhand is 623.0 mm (6% excess) during 01 June 2021 - 06 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (06 - 12 August 2021 and 13 - 19 August 2021) over Jharkhand is normal for week-1 and week-2.

- Prevailing weather condition is congenial for the attack of stem borer or army worm in maize crop. To control, it is advised to spray insecticide Emasetin @ 1 g per litre of water.

### ***Disclaimer:***

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