



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity:** 28 May – 10 June 2021

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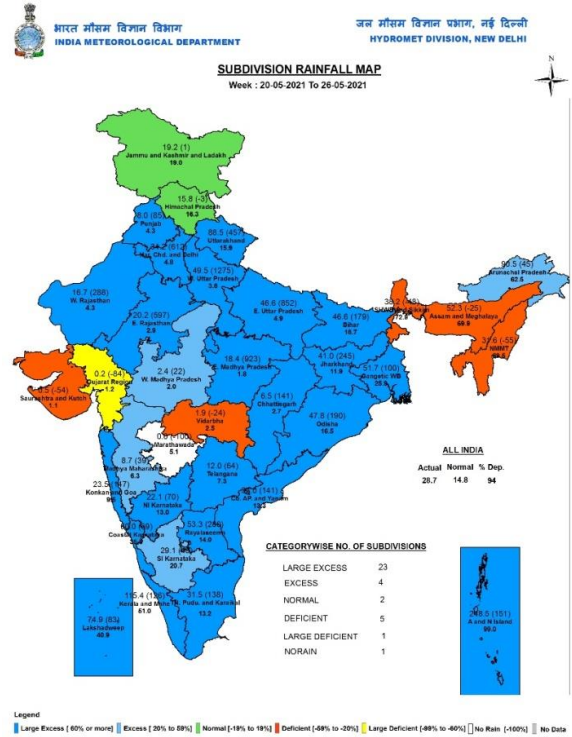
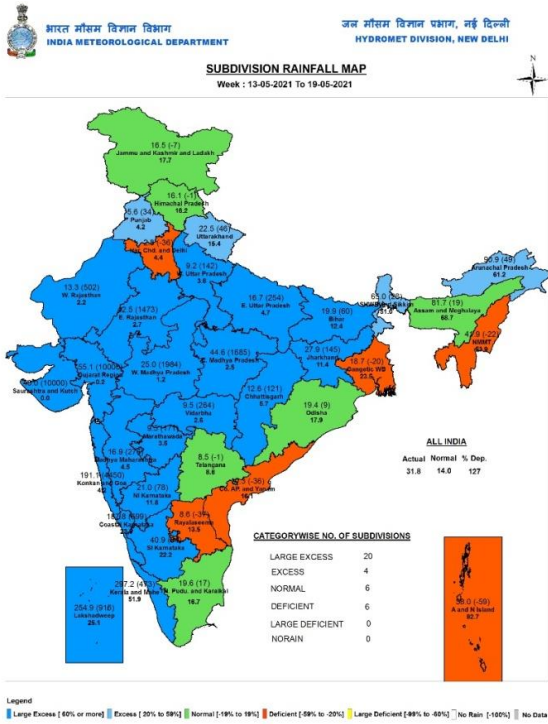
**AICRP on Agro-Meteorology (AICRPAM),  
Central Research Institute for Dryland Agriculture (CRIDA),  
Indian Council of Agricultural Research (ICAR)**

**&**

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

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

## Realized Rainfall (13<sup>th</sup> to 26<sup>th</sup> May, 2021)



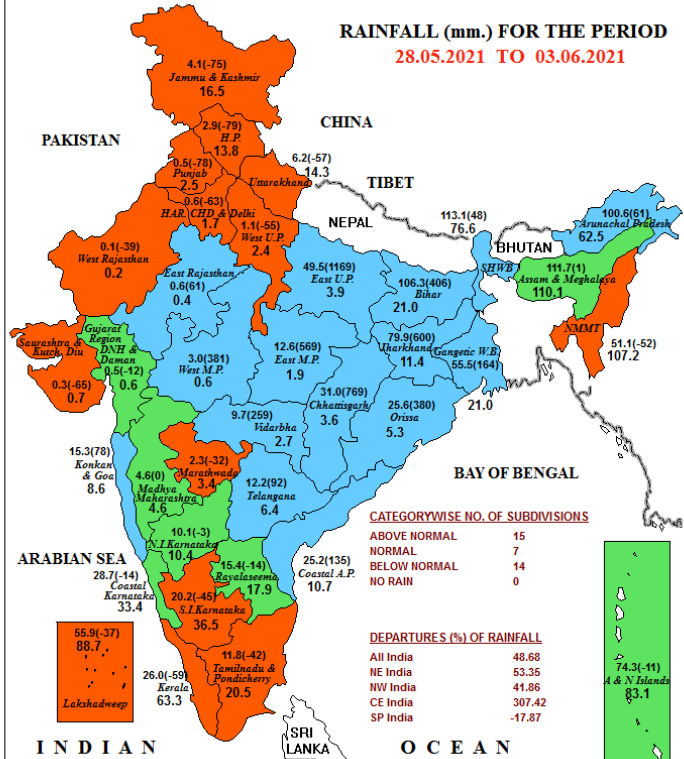
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Arunachal Pradesh, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Telangana, Karnataka, Kerala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

## Extended Range Forecast System

### Rainfall forecast maps for the next 2 weeks (IC -26 May) (28<sup>th</sup> May to 10<sup>th</sup> June, 2021)

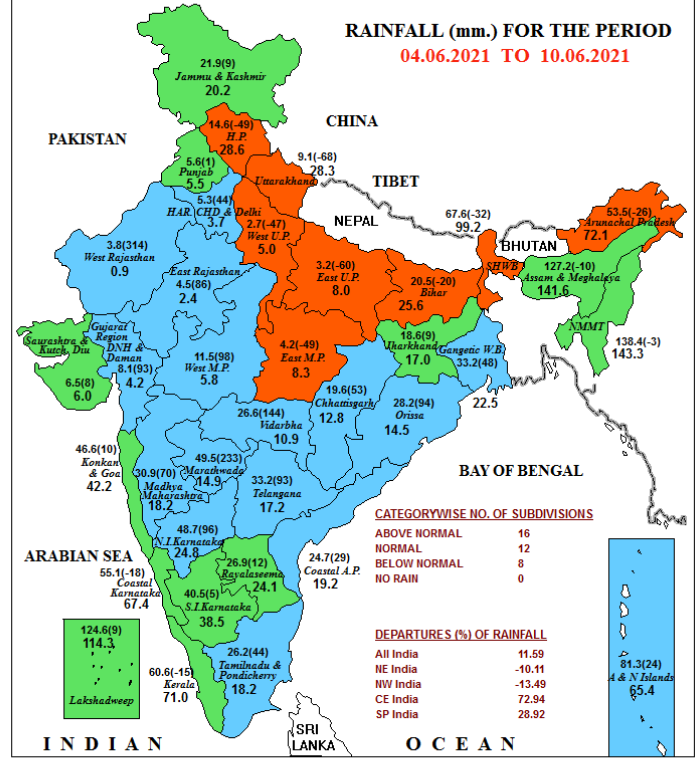
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

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



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



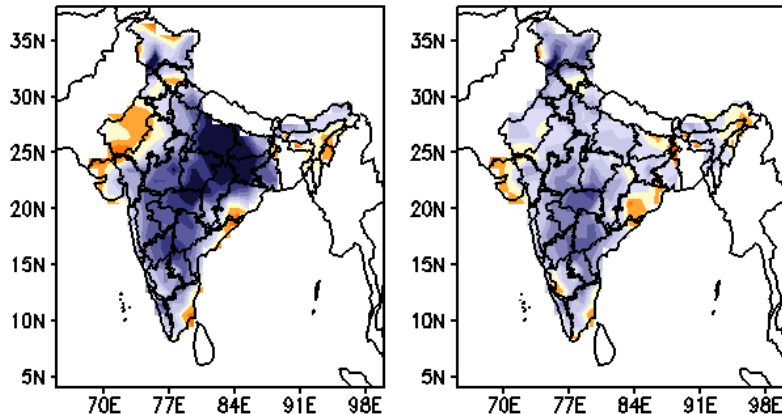
- **Week 1 (28.05.2021 to 03.06.2021)** Rainfall likely over Jharkhand, interior Odisha, West Bengal, Bihar and adjoining east Uttar Pradesh in week 1 associated with remnant of the system over the region in week 1. Kerala coast will get rainfall in week 1, however, it will be with negative anomaly.
- **Week 2 (04.06.2021 to 10.06.2021):** Normal to slightly above normal rainfall over parts of south peninsula and adjoining central parts of India likely in week 2.
-

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks(IC – 26<sup>th</sup>May)  
(28<sup>th</sup> May to 10<sup>th</sup> June, 2021)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 28May–03Jun)

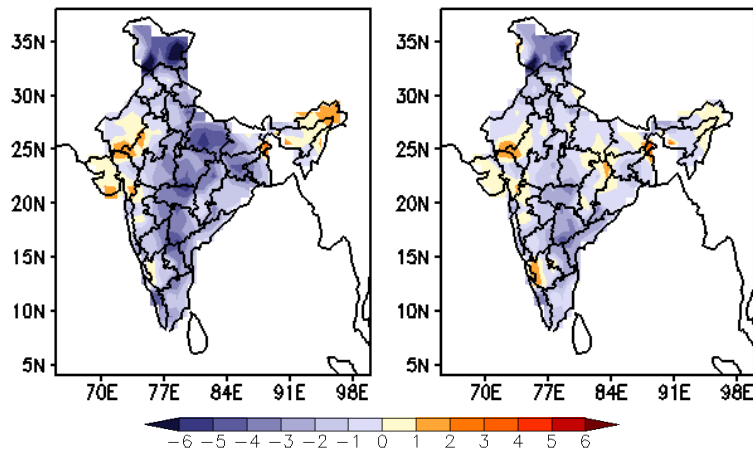
(Week2: 04Jun–10Jun)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 28May–03Jun)

(Week2: 04Jun–10Jun)



**Maximum Temperature (Tmax)**

- **Week 1 (28.05.2021 to 03.06.2021) and Week 2 (04.06.2021 to 10.06.2021):** Tmax patterns look slightly similar to that of Tmin pattern with some parts of northwest India and isolated region over northeast India will have positive anomalies in week 1 and week 2. The remaining regions will have below normal Tmax during the period (Week 1 & Week 2).

**Minimum Temperature (Tmin)**

- **Week 1 (28.05.2021 to 03.06.2021) and Week 2 (04.06.2021 to 10.06.2021):** Warm anomalies over North Eastern and parts of Northwest India likely in week 1 and week 2. Mostly Tmin likely to be normal to below normal over remaining parts.

## Strategic Agricultural Planning based on rainfall during next two weeks till 10 June 2021

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 730.7 mm (132% large excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) is below normal for week-1 and normal for week-2.

- Due to heavy rainfall condition, there is a chance of sigatoka disease in Banana. As a precaution, it is advised to spray *Pseudomonas* @ 20 g per one litre of water. In severe attack, spray 1 ml Hexaconazole or 1 ml Propiconazole per one litre of water by mixing it with a sticker and spray on both the surface of the leaf.
- Under prevailing weather condition, there is a chance of downy mildew attack in vegetables. To manage, it is advised to spray Mancozeb 75 WP @ 3 g per litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 117.3 mm (-1% deficit) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) is below normal for week-1 and above normal for week-2.

- Prevailing weather condition is favorable for sucking pest infestation in summer irrigated cotton. If infestation is observed, it is advised to spray Methyl demeton 25 EC 500ml/ha or NSKE 5% @ 2 kg/ha.
- Prevailing weather condition is favorable for mealy bug incidence in Guava and Mango. To manage, it is advised to apply Triozophos 2 ml + Neem oil 5 ml/l or Phosalone 35 EC 1.5 ml+ Neem oil 5 ml/l or release *Cryptolaemus montrouzieri* beetles @ 10/tree.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 60.2 mm (118% large excess), Marathwada is 27.5 mm (15% excess), and Vidarbha is 40.9 mm (59% large excess) and Konkan region 222.4 mm (915% large excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) over Konkan and Vidharbha is above normal, Madhya Maharashtra is normal and Marathwada is below normal over for week-1 and normal over Konkan above normal over Madhya Maharashtra, Vidarbha and Marathwada for week-2.

#### Marathwada

- Due to the chances of thunderstorm and rainfall, it is advised to harvest the matured vegetable crops like watermelon and muskmelon and store the harvested crops at safe place.

#### Vidharbha

- Under prevailing weather condition, farmers are advised for deep summer ploughing of harvested fields to expose the hibernating insects, larvae/pupa to sun and predator birds.

- Under prevailing weather condition, it is advised to harvest matured summer groundnut, sesame and sunflower crop and store the produce at safe place.

#### *Madhya Maharashtra*

- Due to the chances of rainfall, it is advised to harvest the summer sown matured crops and store them at safe places.

#### *Konkan*

- Under prevailing rainy and high humidity weather condition, there is possibility for incidence of Koleroga disease in Arecanut orchard. To prevent, it is advised to spray 1% Bordo-mixture during clear weather and repeat the spray 3-4 times at one-month interval.
- Due to chances of rainfall, it is advised to harvest the matured mango fruits at 80 to 85% maturity in the morning or evening hours during clear weather and keep the harvested fruits in shade to prevent spongy tissue.

#### **Hisar**

Amount of rainfall received over Hisar is 51.8 mm (45% excess) during 01 March 2021 - 27 May 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) over Hisar is below normal for week-1 and above normal for week-2.

- Due to hot and dry weather condition, farmers are advised to apply light irrigation in planted vegetable crops and fruit plants as per requirement.
- Under prevailing weather condition, farmers are advised to go for sowing of sorghum, maize and lobia as a fodder crop.
- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

#### **Karnataka**

Rainfall received during 01 March 2021 - 27 May 2021 over South Interior Karnataka is 174.4 mm (38% excess) and North Interior Karnataka is 108.7 mm (53% excess). The extended range weather forecast (rainfall) for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) over South Interior Karnataka is below normal and normal over North Interior Karnataka for week-1 and normal over South Interior Karnataka and above normal North Interior Karnataka over week-2.

#### *South Interior Karnataka*

- After receiving sufficient rainfall, sowing of long duration crops like redgram crop with recommended varieties BRG-1, 2, 4 &5, TTB-7 and Castor crop with varieties DCH-9, 32 & 177.

- For the management of fruit fly damage in mango, spraying of Carbaryl @ 4 g/litre of water is advised.

#### *North Interior Karnataka*

- Under prevailing weather condition, farmers are advised to take up land preparation and keep the land ready for *kharif* sowing.
- Vaccination of livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic Septicaemia* is advised.

#### **Uttar Pradesh**

Rainfall received during 01 March 2021 - 27 May 2021 over East Uttar Pradesh 76.5 mm (159% large excess) and West Uttar Pradesh is 65.4 mm (137% large excess). The extended range weather forecast (rainfall) for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) over East Uttar Pradesh is above normal and below normal over West Uttar Pradesh for week-1 and below normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

#### *Eastern Uttar Pradesh*

- Under prevailing weather, farmers are advised for irrigation in standing crop as per requirement.
- Under prevailing weather condition, sowing of Dhaincha as green manure crop is advised.
- Inter-cultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

#### **Jammu**

Amount of rainfall received over Jammu is 245.6 mm (-25% deficit) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Jammu is below normal for week-1 and normal for week-2.

- Due to rise in temperature, it is advised to protect the young fruit plants from heat by providing thatches /cover and also ensure free circulation of air.
- Due to high evaporation, intercultural operations are advised in summer pulse crops to conserve soil moisture and also irrigate the crops as per requirement.

#### **West Bengal**

Amount of rainfall received over West Bengal is 237.2 mm (39% excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over West Bengal is above normal for week-1 and week-2.

- Because of heavy rain, thunderstorm, strong wind and high waves due to 'Yaas' cyclonic storm,



it is advised to harvest the *Boro* rice, all the matured pulses and groundnut crops and store them at safe places after sun drying.

- Under prevailing weather condition, there is severe damage occurred in fruit trees like Mango, Banana, Litchi, Papaya. Therefore, it is advised to complete fruit collection at the earliest, prune the broken plant parts and raise support to plants.
- Due to prevailing heavy rainfall condition, it is advised to prepare drainage channel and drain out excess water from the field.

### **Odisha**

Amount of rainfall received over Odisha is 182.0 mm (52% excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Odisha is above normal for week-1 and week-2.

- Because of heavy rain/thundershower due to the cyclone 'Yaas', it is advised to prepare arrangement for drainage of rainwater from different crop fields like paddy, jute, sugarcane, sesamum, vegetables and flowers to avoid submergence.
- Under prevailing cyclonic storm, it is advised to harvest mature fruits like mango, papaya and banana and make strong wooden support for papaya and banana plants to avoid lodging due to high wind speed.
- Prevailing weather condition is congenial for both fungal and bacterial disease like leaf blight, wilt, and rot in different standing vegetable crops. To manage, it is advised to spray Metalaxyl+ Mancozeb @ 2g/litre of water or Carbendazim+ Mancozeb @ 2 g/litre of water along with Plantomycin @ 1g/ litre of water.

### **Assam**

Amount of rainfall received over Assam is 363.1 mm (-32% deficit) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Assam is normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to prepare nursery bed for sowing of Sali rice. Recommended varieties are Ranjit, Ranjit Sub 1, Bahadur, Satyaranjan, Basundhara, Mahsuri, Ketekijoha etc.
- Under prevailing rainy weather condition, it is advised to prepare small drains at required interval in the vegetable field to drain out excess water and provide mechanical support to banana, citrus, papaya etc. to protect them from lodging.
- To protect the goats and sheeps from Contagious Ecthyma disease, immunize them at 6-8 weeks of age with vaccines after proper consultation with veterinary doctor.



## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 214.1 mm (-10% deficit) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Due to the chances of high temperature, farmers are advised to harvest the mature vegetables at morning and evening hours only.
- Under the prevailing weather condition, deep ploughing of the fallow fields so that eggs of insect pests and weeds get exposed under direct sun light.
- Under prevailing increase in temperature, it is advised to make proper ventilation in poultry houses.
- It is optimum time to resume picking in tea at 8-9 days intervals to maintain the quality and productivity.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 229.6 mm (57% excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, intercultural operations are advised in early sown *kharif* crops like Barnyard millet, cheti dhan etc.

## **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 95.5 mm (147% large excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Due to the possibility of light to moderate cloudiness and light showers, farmers are advised for harvesting of summer paddy, pulses, summer sesamum and groundnut crop .
- Due to hot and dry winds, it is advised to cover the banana and papaya fruits by using leaves or jute bags to protect the fruits from sun scorching.

## **Andhra Pradesh**

Amount of rainfall received over Andhra Pradesh is 112.4 mm (50% excess) during 01 March 2021 - 27 May 2021. The extended range weather forecast (rainfall) provided for next two weeks (28 May 2021 - 03 June 2021 and 04 - 10 June 2021) on rainfall over Andhra Pradesh is normal for week-1 and week-2.

- Present weather condition is favourable for sucking pests in papaya grown in Srikakulam,

Vizianagaram, and West Godavari districts. To control, spraying of Imidachloprid @ 0.3g/litre of water is advised.

- Sowing of *kharif* groundnut is advised in Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Chittoor, Ananthapuramu and Kurnool districts. Recommended high yielding and drought tolerant varieties are Kadiri-9, Kadiri Harithandhra, Anantha, Greeshma, Narayani, Abhaya, Dharani, Kadiri, Amaravathi and Kadiri Chitravathi.

***Disclaimer:***

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