



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 20 August – 02 September 2021

Date of issue: 21 August 2021

Issued by

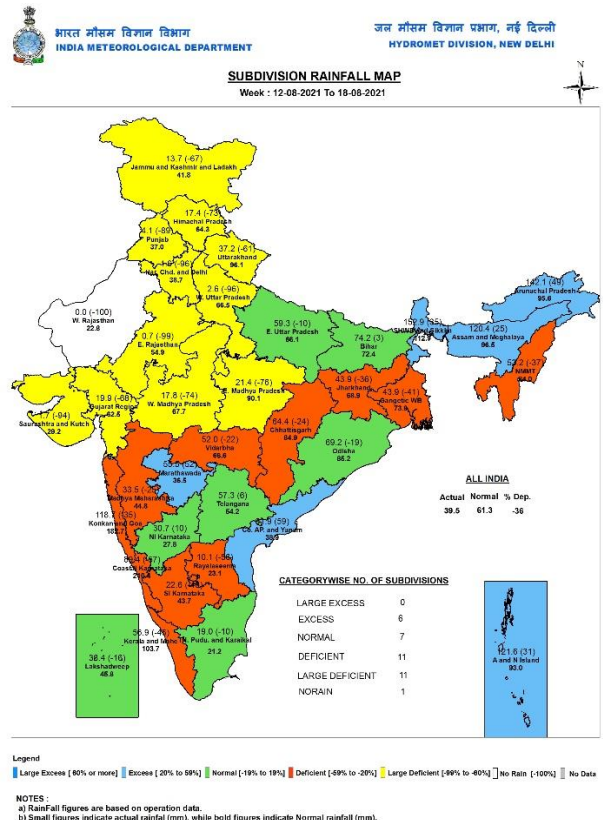
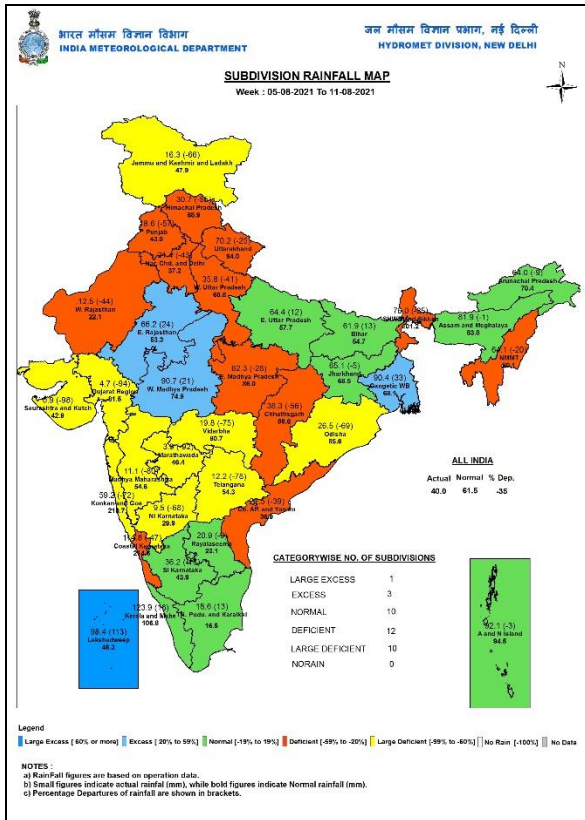
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (5th to 18th August, 2021)

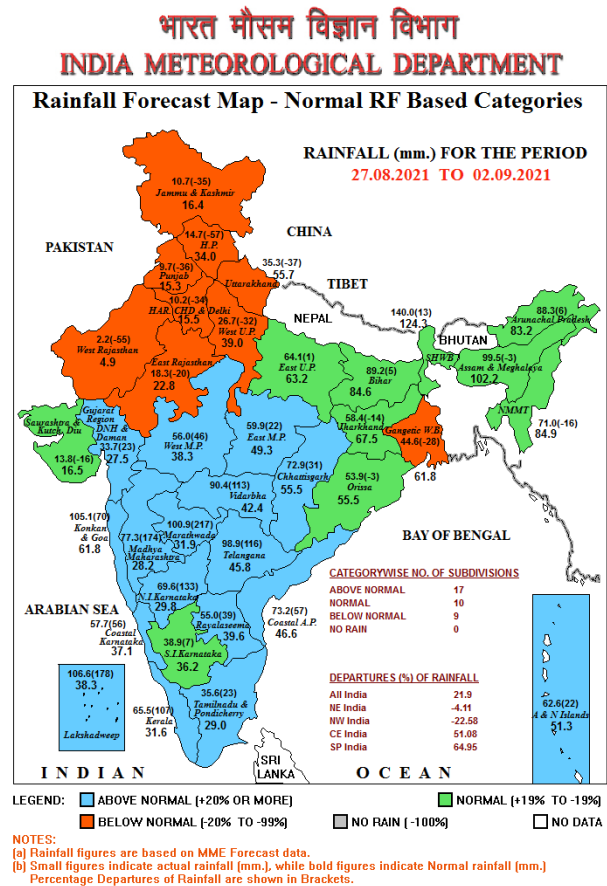
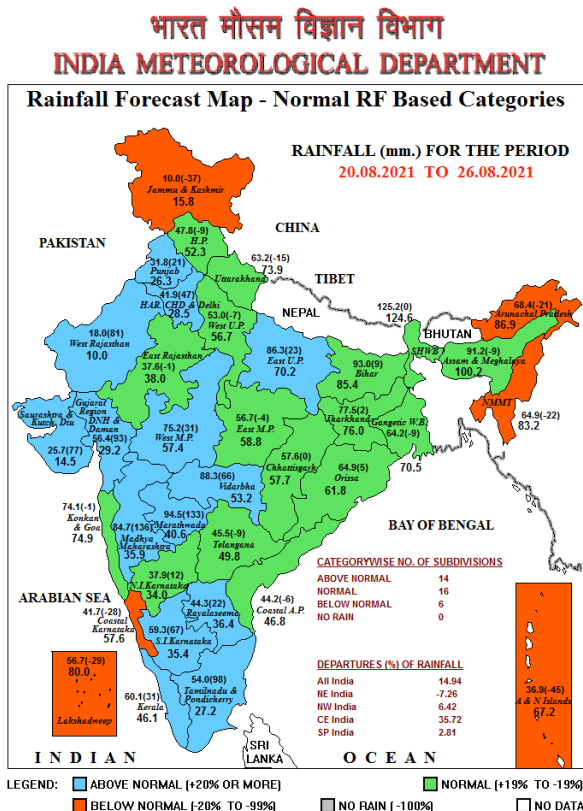


- Normal or above normal rainfall occurred in both the weeks in East Uttar Pradesh, Arunachal Pradesh, Assam & Meghalaya, Bihar, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in East Rajasthan, Sub-Himalayan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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 18 August)

(20th Aug. to 2nd Sep., 2021)



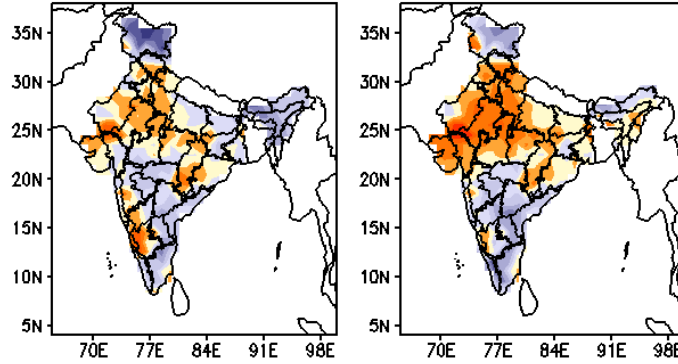
- **Week 1 (20.08.2021 to 26.08.2021):** Positive anomaly likely over some parts of central India and also over the Indo-Gangetic region in week 1. However, Northeast India and parts of Northwest India will have below normal rainfall.
- **Week 2 (27.08.2021 to 02.09.2021):** Likely increase of rainfall over central India in week 2. However, north and northwest parts of India will have below normal rainfall.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 18 August)
(20th Aug. to 2nd Sep., 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 20Aug–26Aug)

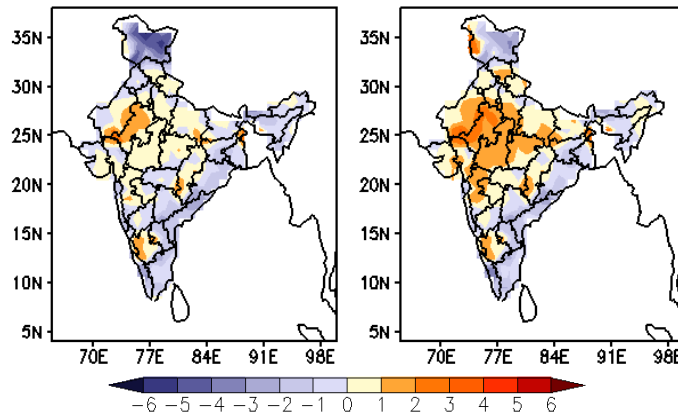
(Week2: 27Aug–02Sep)



MME forecast Tmin anomaly (Deg C)

(Week1: 20Aug–26Aug)

(Week2: 27Aug–02Sep)



Maximum Temperature (Tmax)

- **Week 1 (20.08.2021 to 26.08.2021) and Week 2 (27.08.2021 to 02.09.2021):** Mainly above normal Tmax in week 1 and week 2 over Northwest India. Above normal Tmax is also likely over the eastern parts of India (Odisha, Chhattisgarh, Bihar, Jharkhand and adjoining region) in week 1. Below normal Tmax likely over southern peninsula and some parts of Northeast India in week 1 and week 2.

Minimum Temperature (Tmin)

- **Week 1 (20.08.2021 to 26.08.2021) and Week 2 (27.08.2021 to 02.09.2021):** Slight positive Tmin anomaly likely over northwest and adjoining parts, north and central India in week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 02 September 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1220.1 mm (-27% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) is above normal for week-1 and week-2.

- Under prevailing weather condition, leaf spot disease is observed in bhindi. To manage, it is advised to spray Carbendazim @ 1ml per litre or Propiconazole @ 1ml per litre immediately after appearance of the disease.
- There is a chance of appearance of rice bug in paddy. To control, it is advised to spray Malathion @ 2 ml per one litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 230.3 mm (29% excess) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) is above normal for both week-1 and week-2.

- 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.
- 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 584.2 mm (9% excess), Marathwada is 513.6 mm (19% excess), Vidarbha is 622.4 mm (-9% deficit) and Konkan region 2691.5 mm (16% excess) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Konkan is normal; over Marathwada, Vidharbha and Madhya Maharashtra is above normal for week-1 and above normal over Konkan, Vidharbha, Madhya Maharashtra and Marathwada for week-2.

Marathwada

- Due to cloudy weather condition aphids and thrips may be observed in groundnut crop. For management, it is advised to spray of Imidacloprid 17.8 SL @ 2 ml or Quinalphos 25 EC 20 ml or Oxydemeton-methyl 25 EC 20 ml 10 litres of water during clear weather condition.
- For the management of fall armyworm in maize crop, it is advised to spray Thiamethoxam 12.6 % + Lambda-Cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 litres of water during clear weather condition.

Vidharbha

- Due to the chances of heavy rainfall, farmers are advised to drain out excess water in the event of waterlogging in standing crop/vegetable fields and orchards.
- To manage girdle beetle in soybean, 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 management of aphids in greengram, blackgram and cowpea, spraying of Dimethoate @ 15 ml per 10 litres of water is recommended.

Hisar

Amount of rainfall received over Hisar is 352.6 mm (11% excess) during 01 June 2021 - 20 August 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Hisar is above normal for week-1 and below normal for week-2.

- Due to prevailing hot and humid weather, farmers are advised to monitor white fly, jassids and other sucking insect pests in cotton crop and also apply the irrigation as per the crop need.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop during second week.

Karnataka

Rainfall received during 01 June 2021 - 20 August 2021 over South Interior Karnataka is 514.9 mm (7% excess) and North Interior Karnataka is 407.5 mm (30% excess). The extended range weather forecast (rainfall) for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over South Interior Karnataka is above normal and North Interior Karnataka is normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka 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 and horticultural crops. It is also advised to provide staking support for banana and vegetable crops to prevent 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 - 20 August 2021 over East Uttar Pradesh is 585.2 mm (3% excess) and West Uttar Pradesh is 384.0 mm (-23% deficit). The extended range weather forecast (rainfall) for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over East Uttar Pradesh is above normal 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

- Under prevailing weather condition, sowing of late sown pigeon pea varieties viz., Bahar, Amar, Azad, Pusa-9 is advised.
- For the management of khaira disease in late planted paddy, it is advised to spray 5.0 kg Zinc sulphate/ha with 2.0% Urea solution.

Eastern Uttar Pradesh

- If crops fail due to water logging because of excess rainfall, then re-sowing of early maturing varieties of crops is advised.

Jammu

Amount of rainfall received over Jammu is 299.3 mm (-26% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 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 970.4 mm (21% excess) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over West Bengal is normal for week-1 and below normal for week-2.

- Due to heavy rain and water logging condition, seedbeds of *kharif* rice may be damaged. Farmers are advised to prepare new rice seedbed and select early duration varieties like MTU-1010, IET-4786, Gotra Bidhan-1, DRR-42, IR-64, BINA-11, Puspa, Falguni, DRR-45.
- For the management of downy mildew disease in cucurbitaceous vegetables, it is advised to apply Cymoxanil + Mancozeb @ 2.5 g/litre of water or Azoxystrobin + Tebuconazole @ 1.5 ml/litre of water.

Odisha

Amount of rainfall received over Odisha is 574.3 mm (-29% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Odisha is normal for week-1 and 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 planting of mango with recommended varieties like Banganapalli, Totapuri, Bombay green, Suvarnarekha, Neelam, Himsagar, Langra, Dusheri, Amrapalli, Mallika, Ratna, Ramkella, Rummani, Sindhu, Alphanso and Keshar, *etc.*

Assam

Amount of rainfall received over Assam is 1069.1 mm (-19% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Assam is normal for week-1 and week-2.

- Due to favourable weather condition, attack of stem borer and case worm may be observed in rice. For effective control, it is advised to spray Fipronil 5 SC @ 2.5ml/litre water under clear weather conditions.
- 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.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 728.7 mm (-11% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Chhattisgarh is normal for week-1 and above normal for week-2.

- For management of defoliators and white fly in soybean, it is advised to spray per-mixed insecticides like Betacyfluthrin + Imidacloprid @ 350 ml/ha or Thimethoxam + Lembdacyhelothrin @ 125 ml/ha.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 639.3 mm (-13% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Madhya Pradesh is normal for week-1 and above normal for week-2.

- Prevailing weather condition is congenial for planting of papaya, mango and guava.
- Sugarcane plants should be tied to prevent from lodging due to strong winds.

Gujarat

Amount of rainfall received over Gujarat is 381.8 mm (-44% deficit) during 01 June 2021 - 20 August

2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Gujarat is above normal for week-1 and week-2.

- For the management of leaf miner in tomato crop, it is advised to spray Spinosad @ 3 ml per 10 liters of water.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 334.1 mm (46% excess) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Andhra Pradesh is above normal for week-1 and week-2.

- The prevailing weather condition is congenial for leaf folder incidence in rice grown in Nellore, Chittoor, Srikakulam and Vizianagaram districts. To control, spraying of Monocrotophos @ 1.6 ml/litre of water is advised.
- Current weather condition is congenial for leaf miner disease in groundnut. For effective control, it is advised to spray Chlorpyrifos @ 2.5 ml/litre or Quinalphos @ 2 ml/litre of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 449.3 mm (-16% deficit) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Himachal Pradesh is normal for week-1 and below normal for week-2.

- Constant monitoring of maize crop against attack of fall armyworm is advised. To control, spraying of Chlorantraniliprole 18.5SC @ 0.4 ml/litre or Emamectin benzoate 5SG @0.4 ml/litre is recommended.
- Farmers are advised to make bunds for conserving rain water in the lowland rice fields.

Bihar

Amount of rainfall received over Bihar is 813.1 mm (16% excess) during 01 June 2021 - 20 August 2021. The extended range weather forecast (rainfall) provided for next two weeks (20 - 26 August 2021 and 27 August - 02 September 2021) over Bihar is normal for week-1 and week-2.

- Monitoring is advised for the infestation of fruit and shoot borers in brinjal crop. To manage, it is advised to collect and destroy the infected plants and spray the crop with Spinosad 48 EC @1ml/4 litres of water.
- Under prevailing weather condition, it is advised to complete the transplanting of early varieties of cauliflower like Kuwari, Patna early, Pusa katki, Pusa deepali and Hajipur agaat.

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.