



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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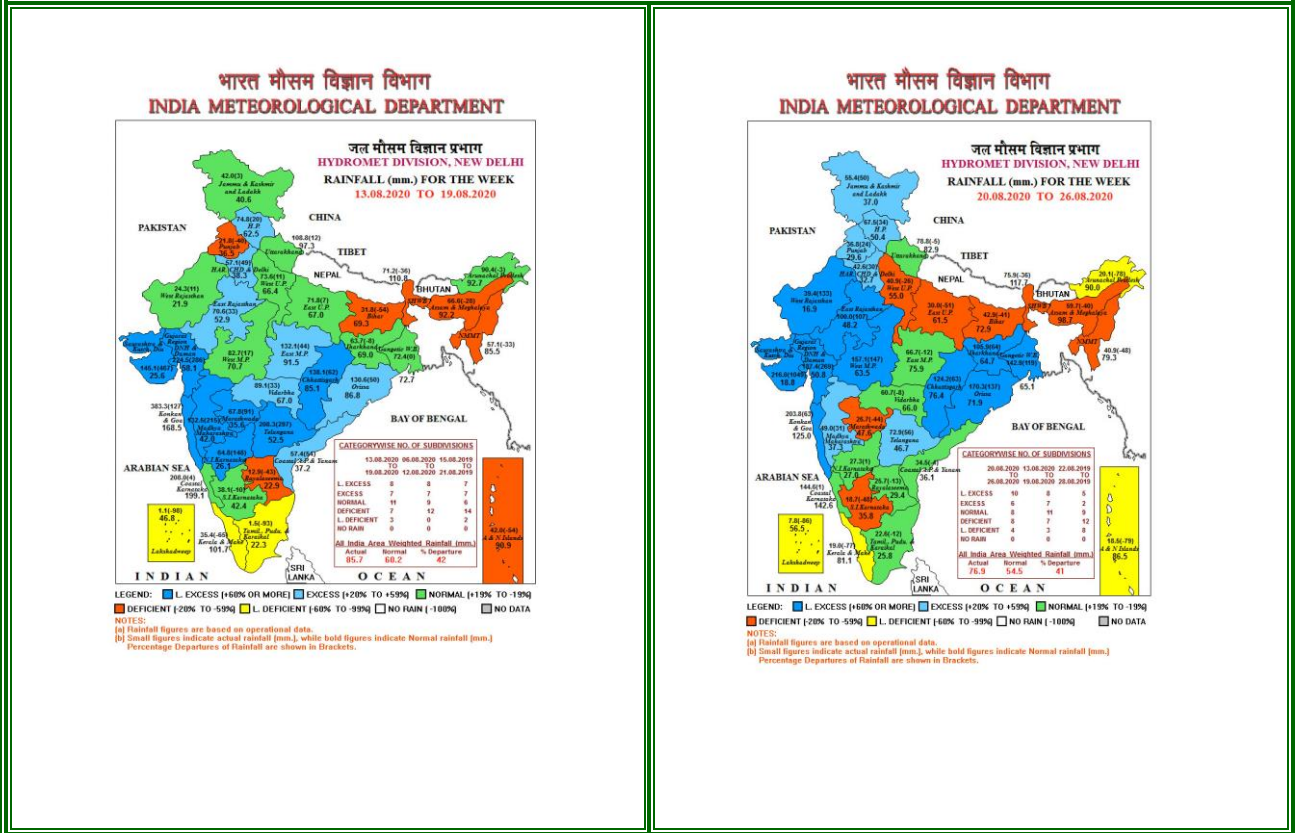
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

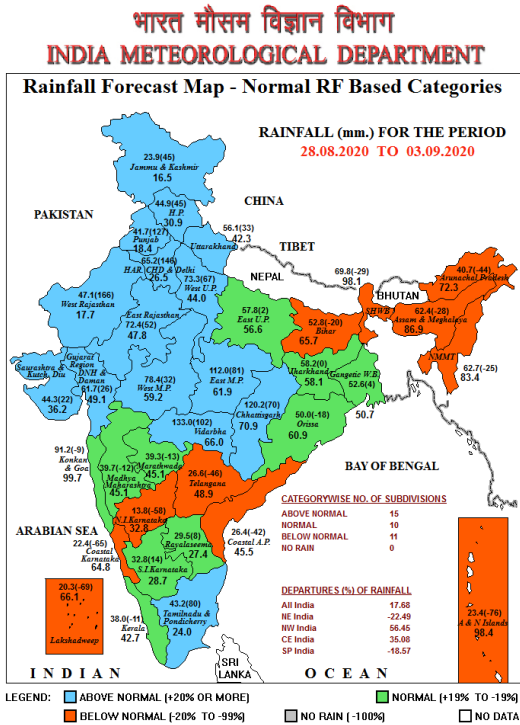
Realized Rainfall (13th to 26th August, 2020)



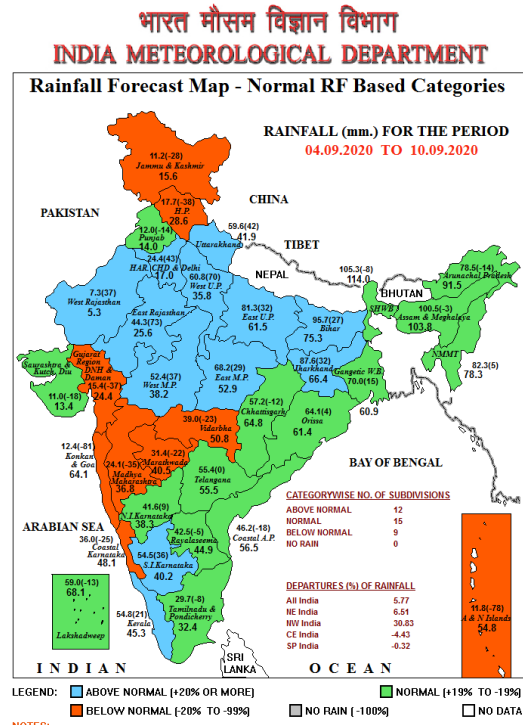
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh, Haryana Chandigarh & Delhi, Rajasthan, Jharkhand, Odisha, Gangetic West Bengal, Gujarat, Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Vidarbha, Telangana,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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –26 August) (28th August to 10th September, 2020)



NOTES:
 (a) Rainfall figures are based on MME Forecast 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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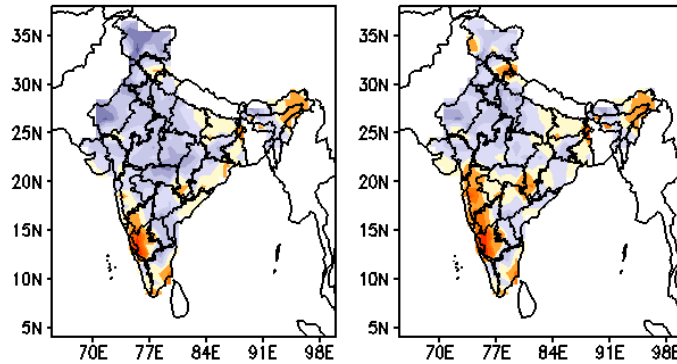
- **Week-1 (28.08.2020 to 03.09.2020):** Rainfall activity over Northwest India and central India will be normal to slightly above normal. However, over Northeast India and parts of central India rainfall will be below normal. Overall for the country as a whole, rainfall will be slightly above normal.
- **Week-2 (04.09.2020 to 10.09.2020):** Rainfall over Uttar Pradesh and Bihar and adjoining regions will be slightly above normal and over central India it will be normal to slightly below normal. For the country as a whole, the rainfall will be normal.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 26 August)
(28th August to 10th September, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 28Aug–03Sep)

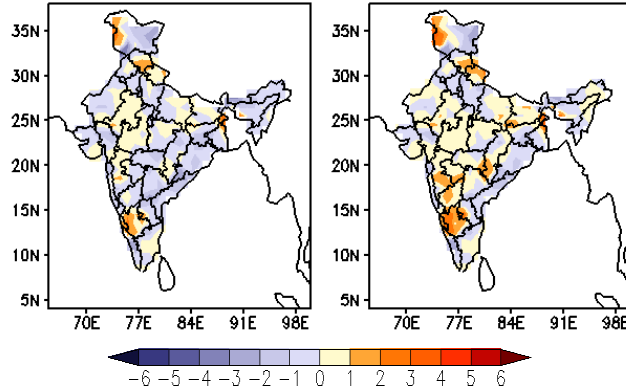
(Week2: 04Sep–10Sep)



MME forecast Tmin anomaly (Deg C)

(Week1: 28Aug–03Sep)

(Week2: 04Sep–10Sep)



Maximum Temperature (Tmax)

- **Week-1 (28.08.2020 to 03.09.2020) and Week-2 (04.09.2020 to 10.09.2020):** Tmax will be mostly below normal over north-west and central India with parts of west coast having slightly above normal Tmax.

Minimum Temperature (Tmin)

- **Week-1 (28.08.2020 to 03.09.2020):** Tmin will be mostly normal with very weak anomaly.
- **Week-2 (04.09.2020 to 10.09.2020):** Tmin over Central India and North-west India will be slightly above normal.

Strategic Agricultural Planning based on rainfall during next two weeks till 10 September 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1624.2 mm (-7% deficit) during the period of 01 June 2020 - 27 August 2020. The extended range weather forecast for next two weeks (28 August - 03 September and 04 - 10 September 2020) is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, there is a chance of rice bug in paddy. To control, spray 2 ml Malathion per one litre of water is advised.
- Due to increase in humidity, there is a chance of anthracnose disease in cowpea. As a prophylactic measure, apply 1% Bordeaux mixture or spray Copper oxychloride 3 g per one litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 285.9 mm (36% excess) during the period of 01 June 2020 - 27 August 2020. The extended range weather forecast for next two weeks (28 August - 03 September and 04 - 10 September 2020) is above normal for week-1 and normal for week-2.

- Present weather condition is favorable for fruit borer incidence in cotton. It is advised to spray of Carbaryl 50 WP 2.5 kg/ha or Azadirachtin 0.03% EC 500 ml/ha.
- 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 748.8 mm (30% excess), Marathwada is 610.5 mm (27% excess), Vidharbha is 682.7 mm (-9% deficit) and Konkan region 3049.2 mm (25% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast for next two weeks (28 August - 03 September and 04 - 10 September 2020) over Vidharbha is above normal and Konkan, Madhya Maharashtra and Marathwada is normal for week-1 and below normal over Vidharbha, Konkan, Madhya Maharashtra and Marathwada 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 litre of water is advised.

Marathwada

- Due to humid and rainy weather condition, sigatoka disease is observed in banana orchards. For management, spray of Carbandazim 50 WP @ 10 g or Propiconazole 10 % EC @ 10 ml per 10 litre of water along with sticker during clear weather condition is advised.

- Due to cloudy and humid weather condition, there is a chance of infestation of sucking pest in cotton crop. For management, it is advised to spray 5 % NSKE or Thiamethoxam 25 % @ 40 g/acre during clear weather condition.

Vidharbha

- Due to continuous rain, phytophthora blight observed in pigeon pea crop. It is advised to spray Fosetyl AL 80% WP @ 2.5 g per litre of water.
- For the control of dieback and fruit rot disease in chilli, it is advised to spray Diafenconozol 25 EC @ 5 ml or Azoxostrobin 23% SC @ 10 ml in 10 litre of water.

Hisar

Amount of rainfall received over Hisar is 346.0 mm (-1% deficit) during of 01 June 2020 - 27 August 2020. The extended range rainfall forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) over Hisar is above normal for week-1 and 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 @ 1litre with 250 litre 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.

Assam

Amount of rainfall received over Assam is 1561.2 mm (11% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Assam is below normal for week-1 and 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.
- To control mosaic and leaf curl disease in papaya crop, it is advised to rogue out the affected plants and spray Malathion 0.1% solution.

Uttar Pradesh

Rainfall received during of 01 June 2020 - 27 August 2020 over East Uttar Pradesh is 649.8 mm (4% excess) and West Uttar Pradesh is 417.6 mm (-24% deficit). The extended range weather forecast for next two weeks (28 August - 03 September and 04 - 10 September 2020) over East Uttar Pradesh is normal and West Uttar Pradesh is above normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the chance of heavy rainfall, farmers are advised to prepare broad and elevated bunds to

conserve rain water in the paddy fields.

- Under prevailing weather condition, there is a chance of khaira disease in late sown paddy. To manage, it is advised to spray Zinc sulphate @ 5.0kg/ha with 2.0% Urea solution.
- Farmers are advised for sowing of green gram with varieties Pant Moong-3, 4, Samrat, Asha, HUM-16, MH-2-3, KM-2241, IPM-2-3, KM-2195 and IPM-205-7.

Eastern Uttar Pradesh

- Due to rainy weather condition, farmers are advised to prepare drainage channel in the water lodged areas and drain out excess water.
- Due to excess rainfall, there may be a chance of crop failure due to water logging. Farmers are advised for re-sowing of early maturing varieties of crops.

Odisha

Amount of rainfall received over Odisha is 967.9 mm (10% excess) during of 01 June 2020 - 27 August 2020. The extended range rainfall forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) over Odisha is normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of top shoot borer infestation in sugarcane crop. To manage, it is advised to spray Fipronil 5 % SC @ 600ml/acre or Profenophos 50% EC @ 400ml/acre or Chlorantraniliprole 18.5% SC @ 80 ml/acre by mixing it in 200 litre of water.
- Prevailing weather condition is congenial for sucking pest in okra. To manage, spray Azadirachtin 1500 ppm @ 600 ml/acre by mixing it in 200 litre of water.

West Bengal

Amount of rainfall received over West Bengal is 892.5 mm (3% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

- Due to high humidity and cloudy weather condition, there may be a chance of combine attack of downy mildew and mosaic virus in bitter gourd and pointed gourd. To control, it is advised to apply Ridomil Gold MZ (@ 2 g per litre of water.
- For the management of fruit fly and hopper in brinjal, farmers are advised to apply Monocrotophos or Fosalone @ 1.5 ml/litre of water.

Jammu

Amount of rainfall received over Jammu is 302.0 mm (-32% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Jammu is above normal for week-1 and below normal for week-2.

- Prevailing weather condition is favourable for leaf blight attack in maize crop. Farmers are advised to spray Mancozeb 75 WP @ 0.25% or Zineb @ 0.02% during clear weather condition.
- Under prevailing weather condition, farmers are advised for plantation of new horticultural crops viz., guava, ber, papaya, mango & citrus crop and make proper arrangement to drain out excess water from the fields.

Rajasthan

Amount of rainfall received over East Rajasthan is 456.1 mm (-6% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over East Rajasthan is above normal for week-1 and 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 507.2 mm (-17% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for 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 conservation of moisture in the soil especially in rainfed areas.
- In mid-hill region, nursery sowing of cabbage and direct sowing of raddish, carrot and broccoli is advised.

Uttarakhand

Amount of rainfall received over Uttarakhand is 861.3 mm (-9% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Uttarakhand is above normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to sow short duration vegetable pea with varieties Arkil and Super Arkil.
- For the control of insect infestation in crop fields, it is advised to use Pheromone/light traps or yellow strips.

Punjab

Amount of rainfall received over Punjab is 337.9 mm (-10% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Punjab is above normal for week-1 and normal for week-2.

- Prevailing weather condition is highly suitable for planting fruit plants such as citrus, mango, litchi, guava, papaya, jamun, sapota, amla.
- To manage fall army worm in maize crop, it is advised to spray Coragen 18.5 SC @ 0.4 ml/litre of water or Delegate 11.7 SC (Spinetoram) @ 0.5ml/ litre of water or Missile 5SG (Emamectin benzoate).

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 779.4 mm (-3% deficit) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Madhya Pradesh is above normal for week-1 and week-2.

- Due to rainy weather condition, farmers are advised to prepare proper drainage facilities in the pulses, oilseeds and vegetables fields.
- To control white flies 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 839.0 mm (14% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Gujarat is above normal for week-1 and below normal for week-2.

- Monitoring is advised for the infestation of white fly in sugarcane crop. If infestation occurs, it is advised to apply Azadirachtin 1500 ppm @ 3 ml per 10 litres water.
- Under prevailing weather condition, there is a chance of sucking pest in okra. To control, it is advised to apply Acetamiprid @ 5 g or Imidacloprid @ 3 ml per 10 litres of water.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 988.2 mm (11% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Chhattisgarh is above normal for week-1 and normal for week-2.

- In deficit rainfall regions, farmers are advised to prepare the fields and go for sowing of low water requirement post *kharif* crops like niger and horsegram.

- Under prevailing weather condition, farmers are advised for nursery preparation of cauliflower, cabbage and capsicum and start transplantation of *kharif* onion in the main field.

Bihar

Amount of rainfall received over Bihar is 945.3 mm (22% excess) during of 01 June 2020 - 27 August 2020. The extended range weather forecast provided for next two weeks (28 August - 03 September and 04 - 10 September 2020) on rainfall over Bihar is below normal for week-1 and above normal for week-2.

- Monitoring is advised for infestation of stem borer in paddy crop. If infestation is observed, application of Cartap hydrochloride 4G (Caldan) @10kg/acre is advised.

Disclaimer:

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