



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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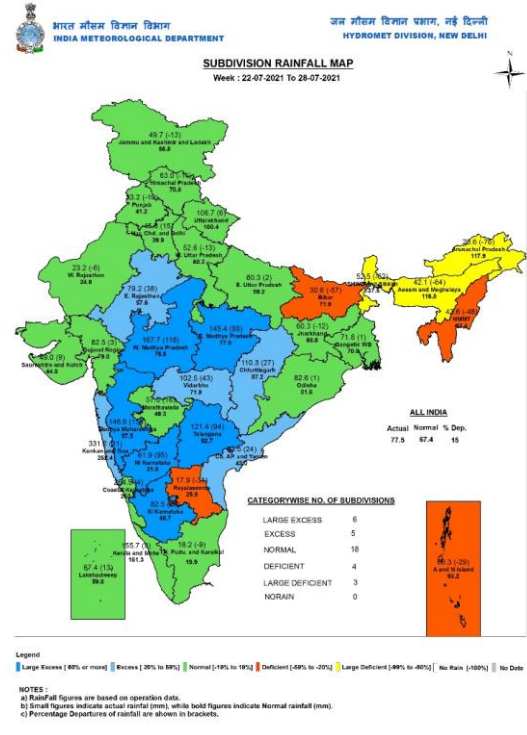
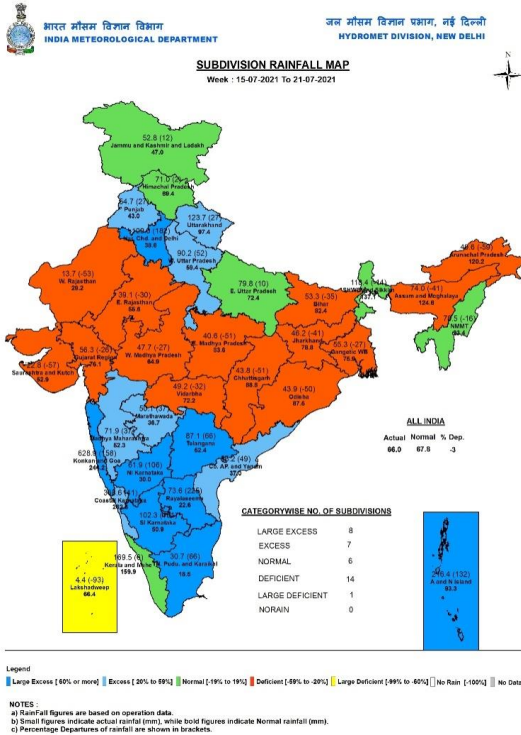
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (15th to 28th July, 2021)



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

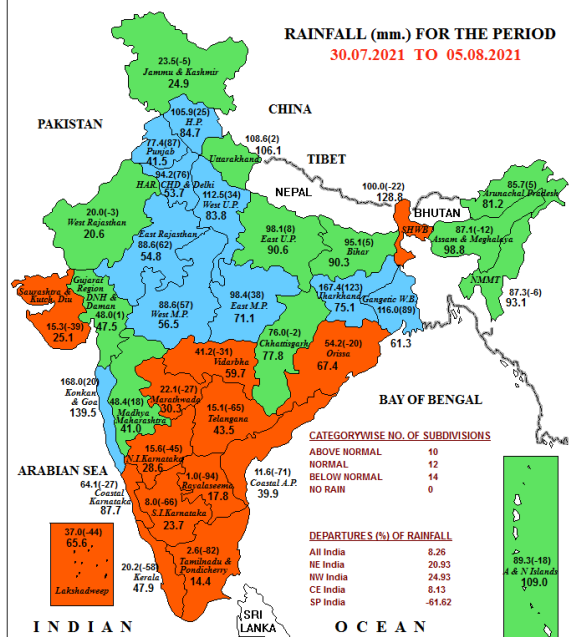
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -28 July)

(30th July to 12th August, 2021)

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Rainfall Forecast Map - Normal RF Based Categories

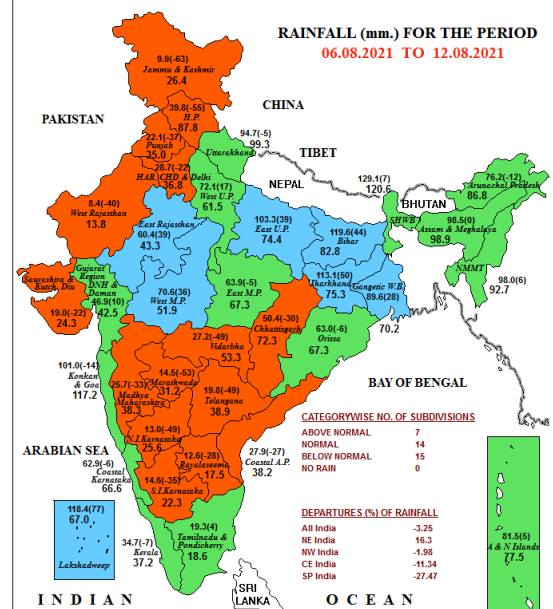


NOTES:

- [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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Rainfall Forecast Map - Normal RF Based Categories

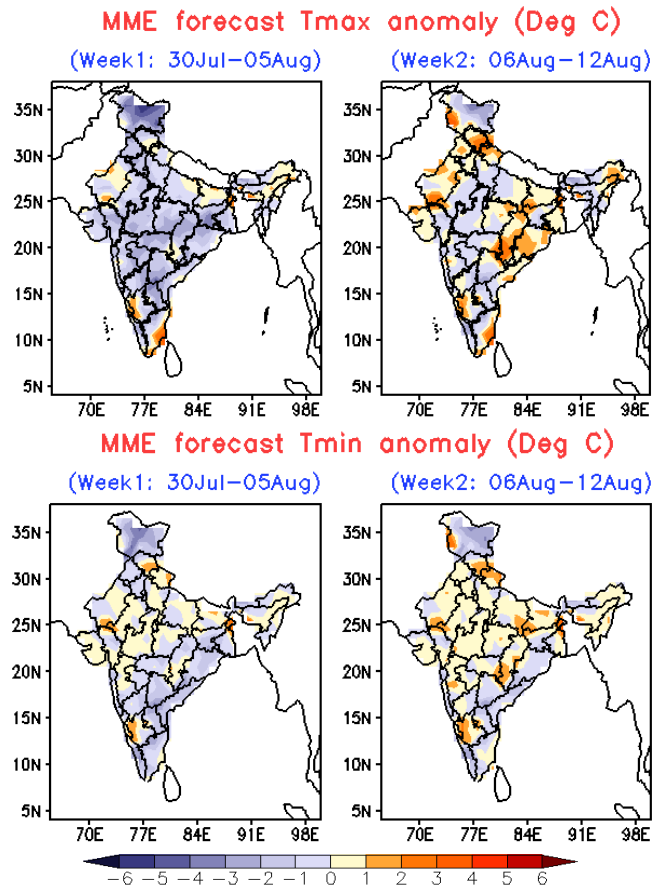


NOTES:

- [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.

- **Week1(30.07.2021 to 05.08.2021):** Positive rainfall anomaly over northern parts of India and also over the region of Gangetic West Bengal, North Odisha, Jharkhand, North Chhattisgarh and adjoining region. South eastern and central belt of India will have below normal rainfall.
- **Week 2 (06.08.2021 to 12.08.2021):** Mostly similar rainfall patterns like week 1. However, rainfall will slightly decrease in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 28 July)
(30th July to 12th August, 2021)**



Maximum Temperature (Tmax)

- **Week 1 (30.07.2021 to 05.08.2021) and Week 2 (06.08.2021 to 12.08.2021):** Mainly normal to slightly below normal Tmax in week 1 over most of India in week 1. But in week 2, slight increase in Tmax over eastern and western coastal regions along with northwest parts of India.

Minimum Temperature (Tmin)

- **Week 1 (30.07.2021 to 05.08.2021) and Week 2 (06.08.2021 to 12.08.2021):** Very weak Tmin anomaly during the period.

Strategic Agricultural Planning based on rainfall during next two weeks till 12 August 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 981.2 mm (-27% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) is below normal for week-1 and normal for week-2.

- During rainy season, it is advised to apply mixture of 15 g bleaching powder and 250 g lime in to the basin of three meter square bed to avoid the spreading of soft rot in ginger and turmeric.
- Because of high humidity in the atmosphere, there is a chance of Mahali disease in arecanut and coconut. For management, spraying of Copper oxychloride @ 3g per litre of water is advised.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 186.8 mm (52% large excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) is below 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 Casuarinas poles.

Maharashtra

Rainfall received over Madhya Maharashtra is 496.6 mm (27% excess), Marathwada is 423.5 mm (36% excess), Vidarbha is 486.8 mm (4% excess) and Konkan region 2389.3 mm (38% excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Konkan is above normal, Marathwada and Vidharbha is below normal and over Madhya Maharashtra is normal for week-1 and over Konkan is normal and below normal over Vidharbha, Madhya Maharashtra and Marathwada for week-2.

Marathwada

- Due to rainy and humid weather condition, there is a chance of early blight disease in tomato crop. For management, it is advised to spray Azoxystrobin 18.2% + Difenconazole 11.4% @ 10 ml + 5 ml sticker per 10 litres of water.
- Prevailing rainy weather condition is also congenial for 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.

Vidharbha

- Due to excess rainfall, it is advised to drain out excess water from orchards, standing crops and

vegetable fields.

- Under prevailing rainy weather condition, spraying of agrochemicals and application of fertilizers in standing crop and intercultural operations should be postponed.
- Prevailing weather condition is congenial for citrus canker in acid lime. To manage, it is advised to prune the affected leaves, branches and spray Copper oxychloride 180 g with Streptocycline @ 6 g in 60 litres of water.

Madhya Maharashtra

- For the management of leaf eating caterpillar in mango, it is advised to spray Chloropyriphos + Cypermithrin @ 2 ml per litre of water.

Konkan

- Prevailing continuous heavy rain and high humidity, favour the development of fungal disease in cashew trees. To control, it is advised to spray 0.2% Mancozeb @ 20 ml per 10 litres of water on entire tree during clear weather.
- Due to very heavy rainfall, earthing up is advised in vegetable crops like tomato, brinjal, chilli, turmeric and other cucurbitaceous crops.

Hisar

Amount of rainfall received over Hisar is 296.6 mm (49% excess) during 01 June 2021 - 30 July 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Hisar is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, it is advised to prepare the fields for rice transplanting and apply need-based irrigation in direct seeded rice.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crop.

Karnataka

Rainfall received during 01 June 2021 - 30 July 2021 over South Interior Karnataka is 426.6 mm (22% excess) and North Interior Karnataka is 355.0 mm (56% excess). The extended range weather forecast (rainfall) for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and 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.

Uttar Pradesh

Rainfall received during 01 June 2021 - 30 July 2021 over East Uttar Pradesh 397.9 mm (4% excess) and West Uttar Pradesh is 285.3 mm (-9% deficit). The extended range weather forecast (rainfall) for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) 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 rainy weather condition, it is advised to stop sowing of pulse crops like pigeon pea, black gram and green gram and drain out excess rain water from the fields.

Eastern Uttar Pradesh

- Sowing of *kharif* vegetables and nursery of brinjal, chilli and cauliflower is also advised.
- The inlet and outlet of fish pond must be maintained so that loss of fish stock during flooding can be avoided.

Jammu

Amount of rainfall received over Jammu is 246.0 mm (-8% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Jammu is normal for week-1 and below normal for week-2.

- Due to rainy weather condition, it is advised to make arrangement to drain out excess water from the crop and vegetable fields. The plant protection measures as well as application of fertilizers should be postponed till weather gets clear.
- Under prevailing weather condition, earthing up in early sown maize is advised to provide proper support and prevent from lodging.

West Bengal

Amount of rainfall received over West Bengal is 772.7 mm (33% excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over West Bengal is above normal for week-1 and week-2.

- For the management of fruit and shoot borer in brinjal crop, it is advised to collect and destroy affected shoots and fruits and also spray Carbaryl 50 WP @ 2 g/litre of water.

Odisha

Amount of rainfall received over Odisha is 448.8 mm (-19% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 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 cultivar 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 780.3 mm (-25% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Assam is normal for week-1 and week-2.

- Prevailing high humidity and rainfall, is congenial for gummosis disease in citrus crop. To manage, proper drainage facilities is advised to drain out excess water from the orchard and also scrap out the affected portion and apply Bordeaux paste.
- 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 sugarcane.

Uttarakhand

Amount of rainfall received over Uttarakhand is 624.6 mm (10% excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Uttarakhand is normal for week-1 and week-2.

- Due to the chances of rainfall, farmers are advised to drain out excess water from crop fields and prepare bunds in the field properly.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 559.1 mm (normal rainfall) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Chhattisgarh is normal for week-1 and below 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 450.3 mm (-4% deficit) during 01 June 2021 -

30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Madhya Pradesh is above 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 325.4 mm (-30% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Gujarat is normal for week-1 and week-2.

- Brinjal and chilli seedlings are to be transplanted after receiving sufficient rainfall or if under assured irrigation.
- For the management of sugarcane borer, it is advised to apply Carbofuran 3G @ 33 kg/ha in soil.

Bihar

Amount of rainfall received over Bihar is 597.0 mm (18% excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Bihar is normal for week-1 and above normal for week-2.

- Prevailing weather condition is congenial for planting of mango saplings in the orchards. Recommended varieties for North Bihar are Mithua, Gulabkhaas, Bambai, Alfanso, Jardaalu, Langra, Hemsager, Krishnabhog and Aman Dasahri.
- Nursery sowing of chili is advised in raised seedbed. Improved varieties for north Bihar are Pant mirch-3, Krishna, Arka lohita, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol and hybrid varieties are Agni rekha, Kalyanpur chaman, Kalyanpur chatmatkar, BSS-267.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 296.5 mm (85% large excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Andhra Pradesh is below normal for week-1 and week-2.

- For utilizing the available soil moisture, farmers are advised to take up castor sowing. Recommended varieties for Ananthapuramu, Kurnool and Prakasam districts are Haritha, Jyothi, Kranthi, Jwala, GCH-4, DCH-177, DCH-519 and PCH-111.
- 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 362.9 mm (-1% deficit) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- It is optimum time to resume picking in tea at 8-9 days intervals to maintain the quality and productivity.
- In mid-hill regions, root slips of setaria and napier grass may be planted in grasslands.

Punjab

Amount of rainfall received over Punjab is 223.7 mm (2% excess) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Punjab is above normal for week-1 and below normal for week-2.

- Due to possibility of rainfall, it is advised to avoid the spraying pesticide in maize crop for the next few days.
- 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 513.8 mm (normal rainfall) during 01 June 2021 - 30 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (30 July - 05 August 2021 and 06 - 12 August 2021) over Jharkhand is above 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 the insecticide Emasetin @ 1 g per litre of water.

Disclaimer:

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