



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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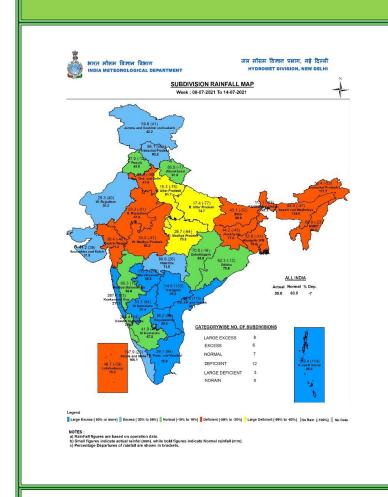
AICRP on Agro-Meteorology (AICRPAM), Central Research Institute for Dryland Agriculture (CRIDA), Indian Council of Agricultural Research (ICAR)

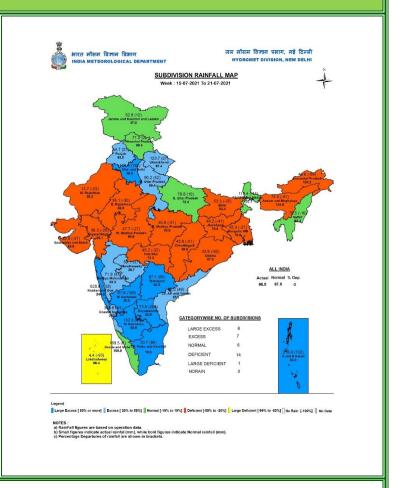
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India Meteorological Department (IMD), Earth System Science Organization

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (8th to 21st July,2021)



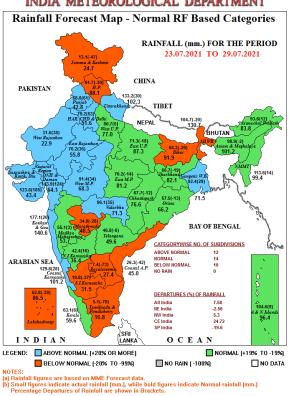


- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Uttarakhand, Himachal Pradesh, Punjab, Konkan & Goa, Madhya Maharashtra, Marathwada, Telangana, Andhra Pradesh & Yanam, Karnataka, Kerala & Mahe Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands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

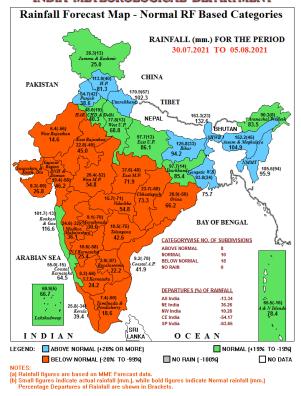
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC –21 July) (23rd July to 5thAugust, 2021)

भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

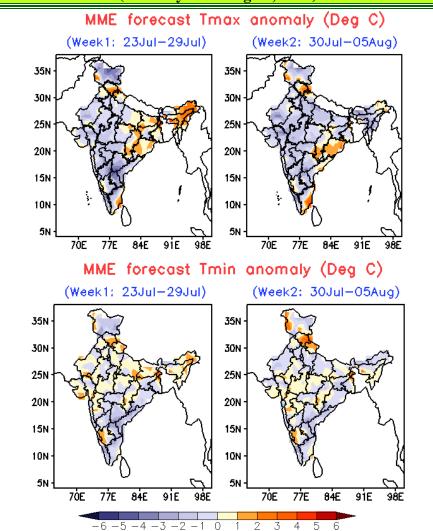


भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



- Week 1 (23.07.2021 to 29.07.2021): Positive anomaly over northern and western parts of India.
- Week 2 (30.07.2021 to 05.08.2021): Mainly above normal. Likely over Northeast Indian region, Jammu & Kashmir and Ladakh (UTs), however, below normal rainfall likely over central and Northwest India.





Maximum Temperature (Tmax)

• Week 1 (23.07.2021 to 29.07.2021) and Week 2 (30.07.2021 to 05.08.2021): Mainly normal to below normal Tmax likely in week 1 over most of India in week 1 and week 2 except parts of eastern and northeastern India.

Minimum Temperature (Tmin)

• Week 1 (23.07.2021 to 29.07.2021) and Week 2 (30.07.2021 to 05.08.2021): Very weak Tmin anomaly likely during the period.

Strategic Agricultural Planning based on rainfall during next two weeks till 05 August 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 856.6 mm (-27% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) is normal for week-1 and below 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 3 sq. meter bed to avoid the spreading of soft rot in ginger and turmeric.
- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. It is advised to spray 2.5g Mancozeb per litre of water under the leaves.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 174.0 mm (68% large excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) is above normal for week-1 and below 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 500 ml/ha.
- For protecting banana from heavy wind, 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 413.6 mm (25% excess), Marathwada is 412.8 mm (59% excess), Vidarbha is 440.5 mm (11% excess) and Konkan region 2237.9 mm (52% excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Konkan and Vidharbha is above normal, Madhya Maharashtra is normal and Marathwada is below normal for week-1 and over Konkan is normal and below normal over Vidharbha, Madhya Maharashtra and Marathwada for week-2.

Marathwada

- For the management of fall armyworm in early sown 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.
- Due to rainy weather condition, drain out excess water from fruit orchards and crop fields.

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, spray 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

• Due to chances of heavy rainfall, it is advised to make arrangement to drain out excess water from finger millet nursery, turmeric, groundnut, ginger, coconut, arecanut, banana, papaya and newly planted fruit crop orchard.

Hisar

Amount of rainfall received over Hisar is 200.8 mm (23% excess) during 01 June 2021 - 23 July 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Hisar is above normal for week-1 and normal for week-2.

- Under prevailing weather condition, it is advised to prepare the field 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 - 23 July 2021 over South Interior Karnataka is 381.2 mm (26% excess) and North Interior Karnataka is 334.3 mm (71% large excess). The extended range weather forecast (rainfall) for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over South Interior Karnataka is below normal and North Interior Karnataka is normal for week-1 and below normal over North Interior Karnataka and South Interior Karnataka for week-2.

North Interior Karnataka

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

South Interior Karnataka

• After receiving sufficient rainfall, under mono cropping, sowing of long duration crops like red gram is recommended with varieties BRG-1, 2, 4 & 5, TTB-7 and Castor crop with varieties DCH-9, 32 &177. For maize Ganga-11, Deccan-103, Vijaya composite, Composite NAC- 6004,

6002, Hybrid-Nityashree (NAH-2049) varieties are recommended.

Uttar Pradesh

Rainfall received during 01 June 2021 - 01 July 2021 over East Uttar Pradesh 332.9 mm (5% excess) and West Uttar Pradesh is 200.4 mm (-20% deficit). The extended range weather forecast (rainfall) for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over East Uttar Pradesh and West Uttar Pradesh is normal for week-1 and week-2.

Western Uttar Pradesh

- Due to rainy weather, farmers are advised to make proper drainage system in all cereals, pulses crops and vegetable crops.
- Under prevailing weather condition, sowing of late sown long duration pigeonpea varieties is advised. Recommended varieties are Bahar, Amar, Narendra Arhar-1, Azad, Pusha-9 and Narendra Arhar-2.
- This is the best time to go for sowing of green gram. Recommended varieties are Pant moong-1, 3, 4, Narendra moong-1, 4, PDM-11, Malveeya jyoti, Samrat, Malveeya janchetna, Malveeya janpriya, Malveeya jagrati, Asha, Meha, MH-2-15 and TM-9937.

Eastern Uttar Pradesh

- Sowing of *kharif* vegetables and nursery of brinjal, chilli and cauliflower is also advised.
- The fish pond in-let and out-let must be maintained so that loss of fish stock due to flooding can be avoided.

Jammu

Amount of rainfall received over Jammu is 176.2 mm (-16% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Jammu is below normal for week-1 and normal for week-2.

- Due to rainy weather condition, it is advised to make arrangement to drain out excess water from the crop and vegetables fields and also postpone plant protection measures as well as application of fertilizers till weather gets clear.
- Monitoring of thread worm attack in rice crop is advised. If observed, apply Carbofuran 3G @ 20 kg/ha during clear weather.

West Bengal

Amount of rainfall received over West Bengal is 548.6 mm (8% excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over West Bengal is above normal for week-1 and week-2.

• For the management of fungal leaf disease in rice, it is advised to spray Carbendazim 8% +

Mancozeb 64% @ 2 g/litre of water and after 3-4 days spray chilated Zinc @ 0.5 g/litre of water.

Odisha

Amount of rainfall received over Odisha is 372.3 mm (-20% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Odisha is normal for week-1 and below 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 726.5 mm (-22% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Assam is normal for week-1 and above normal for week-2.

- Prevailing high humidity and rainfall situation, 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.
- To prevent lodging in sugarcane crops, it is advised to provide mechanical support to the canes by using bamboo sticks or by tying up the leaves of 4-5 canes together.

Uttarakhand

Amount of rainfall received over Uttarakhand is 525.7 mm (13% excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Uttarakhand is above normal for week-1 and week-2.

- For the management of bacterial disease in bottle gourd, cucumber and pumpkin, it is advised to spray Blitox @ 3g/litre of water during clear weather condition.
- During rainy weather condition, it is advised to provide adequate drainage in standing crop fields to avoid water logging.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 447.8 mm (5% excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Chhattisgarh is normal for week-1 and below normal for week-2.

• Due to chances of rainfall, farmers are advised to go for sowing of rice in nursery beds. Soybean, pigeon pea and maize fields should be provided with proper drainage channel

facilities.

• Prevailing weather is suitable for planting of agroforestry plants and fruit plants like papaya, mango, guava and banana etc.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 328.5 mm (-16% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Madhya Pradesh is normal for week-1 and below normal for week-2.

- Due to deficit rainfall, farmers are advised to follow cultural practices like weeding, soil mulching, etc. for conservation of soil moisture.
- Due to deficit in rainfall, sowing of short duration varieties of major crops is recommended and also recommended to increase seed rate by 15-20 % and reduce spacing distance between rows and plants.

Gujarat

Amount of rainfall received over Gujarat is 239.2 mm (-37% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Gujarat is above normal for week-1 and below normal for week-2.

- In case of late rain or unavailability of water, farmers are advised to transplant more seedlings (5-6) per hill or use sprouted method or direct sowing of rice seeds.
- For the management of sucking pest in cotton, it is advised to spray Neem oil 1500 ppm @ 40 ml/10 litres of water or Acetamaprid 20 SP @ 2 g/10 litres water.

Bihar

Amount of rainfall received over Bihar is 542.5 mm (26% excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Bihar is below 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, Aman Dasahri.
- Nursery sowing of chili in raised seedbed is advised. Improved varieties like Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol and hybrid varieties such as Agni rekha, Kalyanpur chaman, Kalyanpur chamatkar, BSS-267 of chili are recommended for sowing in North Bihar.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 292.3 mm (113% large excess) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Andhra Pradesh is below normal for week-1 and week-2.

- Utilizing the available soil moisture, farmers are advised to take up castor sowing and select the varieties like Haritha, Jyothi, Kranthi, Jwala, GCH-4, DCH-177, DCH-519and PCH-111 in Ananthapuramu, Kurnool and Prakasam districts.
- Under prevailing weather condition, farmers growing groundnut in Srikakulam, Vizianagaram, Visakhapatnam, Nellore, Chittoor, Ananthapuramu and Kurnool districts are advised to select high yielding and drought tolerant varieties viz., Kadiri-6, Kadiri-9, Kadiri Harithandhra, Anantha, Greeshma, Narayani, Abhaya and Dharani.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 282.7 mm (-4% deficit) during 01 June 2021 - 23 July 2021. The extended range weather forecast (rainfall) provided for next two weeks (23 - 29 July 2021 and 30 July - 05 August 2021) over Himachal Pradesh is below normal for week-1 and above 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 region, root slips of setaria and napier grass may be planted in grasslands.

Disclaimer:

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