



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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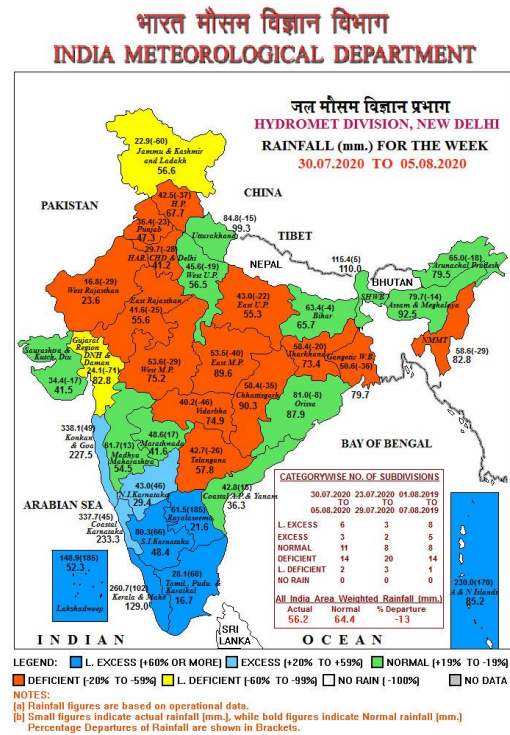
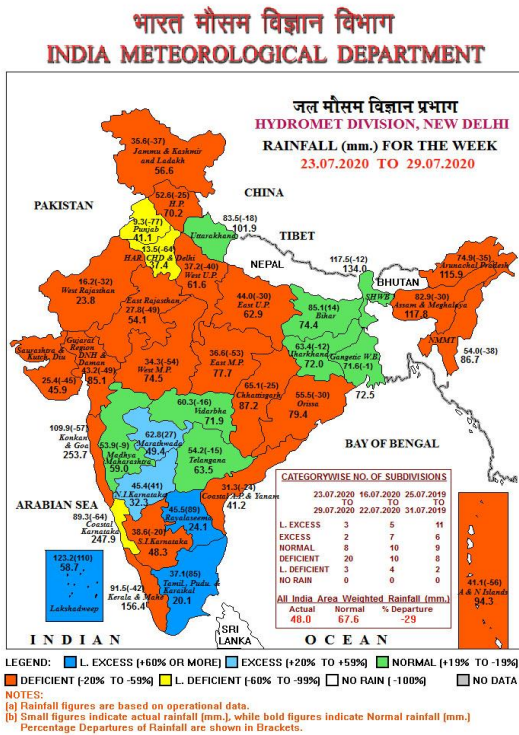
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (23rd July to 5th August, 2020)



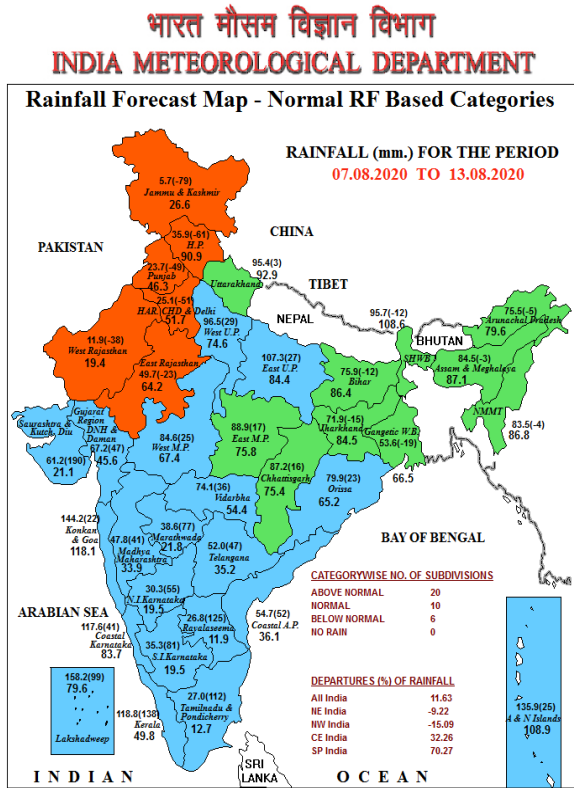
Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Bihar, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Rayalaseema, North Interior Karnataka, Tamil Nadu, Puducherry & Karaikal and Lakshadweep.

Normal or above normal rainfall occurred in either of the weeks in West Uttar Pradesh, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Saurashtra & Kutch, Konkan & Goa, Vidarbha, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Coastal Karnataka, South Interior Karnataka, Kerala & Mahe and Andaman & Nicobar Islands

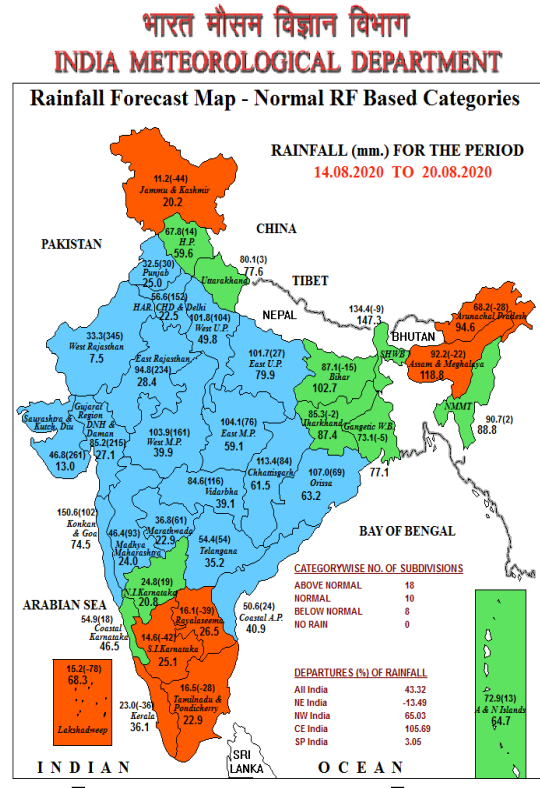
Below Normal rainfall occurred in both the weeks in Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat Region, Nagaland, Manipur, Mizoram & Tripura (NMMT).

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC -05 August)
(7th to 20th August, 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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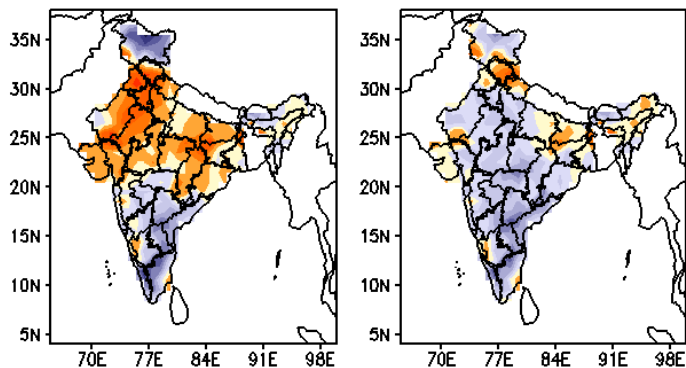
- **Week 1 (07.08.2020 to 13.08.2020):** Northeast is expected to get normal rainfall. Northwest India is expected to get below normal rainfall. Central India and south Peninsula is expected to get above normal rainfall.
- **Week 2 (14.08.2020 to 20.08.2020):** Rainfall over northwest India and central India is expected to increase.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 05 August)
(7th to 20th August, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 07Aug–13Aug)

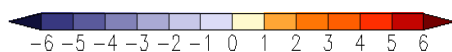
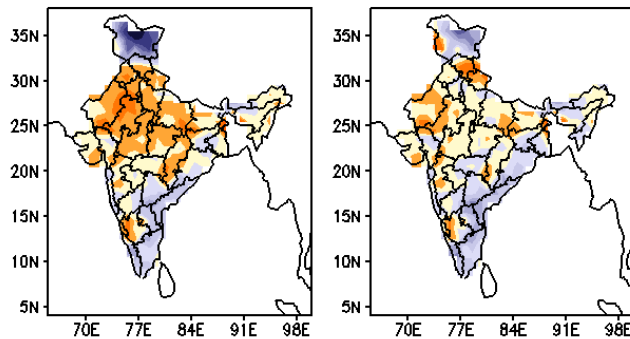
(Week2: 14Aug–20Aug)



MME forecast Tmin anomaly (Deg C)

(Week1: 07Aug–13Aug)

(Week2: 14Aug–20Aug)



Maximum Temperature (Tmax)

- **Week-1 (07.08.2020 to 13.08.2020):** Above normal Tmax over northwest India and also parts of northern India during week 1. South peninsula and adjoining central India will have below normal Tmax.
- **Week-2 (14.08.2020 to 20.08.2020):** Mostly normal to slightly below normal Tmax over the country with some isolated pockets having positive anomaly.

Minimum Temperature (Tmin)

- **Week-1 (07.08.2020 to 13.08.2020) and Week 2 (14.08.2020 to 20.08.2020):** Northwest India and adjoining central India will have above normal Tmin during the period.

Strategic Agricultural Planning based on rainfall during next two weeks till 20 August 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 1253.6 mm (-15% deficit) during the period of 01 June 2020 - 06 August 2020. The extended range weather forecast for next two weeks (07 - 13 August and 14 - 20 August 2020) is above normal for week-1 and below normal for week-2.

- Due to the increase in rainfall, there is a chance of rhizome rot in banana. As a precaution, drench the basin with three litre of pseudomonas solution @ 20 g per/litre of water.
- Due to rainy weather condition, there is a chance of anthracnose disease in cowpea. As a precaution, apply 1% Bordeaux mixture or spray pseudomonas 20 g/ litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 220.8 mm (53% excess) during the period 01 June 2020 - 06 August 2020. The extended range weather forecast for next two weeks (07 - 13 August and 14 - 20 August 2020) is above normal for week-1 and below normal for week-2.

- Present weather condition is congenial for Tristeza virus disease in citrus. It is advised to spray Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight intervals.
- Prevailing weather condition is also congenial for sucking pest incidence in chilly. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- There are higher chances of incidence of smallpox and PPR diseases in goat. Farmers are advised to go for vaccination.

Maharashtra

Rainfall received over Madhya Maharashtra is 515.4 mm (16% excess), Marathwada is 487.4 mm (38% excess), Vidharbha is 469.7 mm (-14% deficit) and Konkan region 2234.6 mm (15% excess) during 01 June 2020 - 06 August 2020. The extended range weather forecast for next two weeks (07 - 13 August and 14 - 20 August 2020) over Vidharbha, Konkan, Madhya Maharashtra and Marathwada is above normal for week-1 and week-2

Madhya Maharashtra

- For control of army worm attack in crops, it is advised to use pheromone trap @ 5 nos./ha or apply 50,000 eggs of *Trichogram pritiolum* or *Telenomus remus* parasite per acre three times in one week interval.

Konkan

- Due to cloudy conditions and rainy weather, there is a possibility for incidence of anthracnose disease on new flush of mango orchard. If incidence is noticed, spray of 0.1% Thiophanate methyl 70% WP @ 10 g/10 litres of water is advised.
- There is a possibility of incidence of tea mosquito bug on new flush of cashewnut. If incidence is noticed spray Monocrotophos 36% SL @ 15 ml or Lambda cyhalothrin 5% EC @ 6 ml/10 litres.

Marathwada

- Due to cloudy weather condition, shoot and fruit borers are seen in vegetable crops. To control, use of Pheromone trap or spray of 5 % NSKE during clear weather condition is advised.
- Due to excess rainfall, there is fruit drops in citrus orchard. For management, it is advised to remove excess amount of water from orchard and spray of Trifloxystrobin 25 % + Tebuconazole 50% @ 2.5 g/ litre of water.

Vidharbha

- Due to rainy weather condition, there is a chance of para wilt in cotton field. It is advised to spray Cobalt chloride @ 0.1 g in 10 litres of water in affected plant.

Hisar

Amount of rainfall received over Hisar is 223.5 mm (-8% deficit) during 01 June 2020 - 06 August 2020. The extended range rainfall forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) over Hisar is below normal for week-1 and above normal for week-2.

- Under prevailing weather conditions, farmers are advised to withhold irrigation in vegetables and fruits crops.
- Farmers are also advised to go for sowing of sorghum, maize and lobia as fodder crops.
- Provide 50 g iodized salt and 50 - 100 g mineral mixture daily with animal feed/fodder to keep animals healthy.

Karnataka

Rainfall received during 01 June 2020 - 06 August 2020 over South Interior Karnataka is 448.3 mm (12% excess) and North Interior Karnataka is 390.8 mm (52% excess). The extended range weather forecast for next two weeks (07 - 13 August and 14 - 20 August 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and below normal over South Interior Karnataka and normal over North Interior Karnataka for week-2.

South Interior Karnataka

- Farmers are advised for pruning of dried twigs and branches in mango to facilitate the sunlight to bear more fruits in next season.
- Farmers may go for sowing of ragi as medium to short duration double crop with varieties ML-365, GPU-28 & 66, KMR-301 & 204, maize with varieties Ganga-11, Deccan-103, Vijaya composite, Composite NAC-6004, 6002, hybrid-Nityashree (NAH-2049) and foxtail millet with varieties RS-118, K-221-1, PS-4, SIA-326.

North Interior Karnataka

- Under prevailing rainy weather condition, sowing of *kharif* crops like bajra, redgram, groundnut (spreading type), navane, and horsegram is recommended.
- Farmers are also advised to sow the crops in rows across the slope to facilitate better soil

moisture conservation.

- Farmers are advised to vaccinate livestock against foot and mouth disease (FMD vaccination), black quarter disease (BC vaccination) and *haemorrhagic septicaemia*.

Assam

Amount of rainfall received over Assam is 1353.7 mm (20% excess) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Assam is normal for week-1 and below normal for week-2.

- It is the optimum time for sowing of rainy season okra crop. Recommended varieties viz., Pusa Sawani, Arka Anamika and Parbhani Kranti.
- Due to heavy rainfall and strong wind conditions, farmers are advised to go for stripping and propping in sugarcane crop to avoid mechanical damage and lodging.

Uttar Pradesh

Rainfall received during 01 June 2020 - 06 August 2020 over East Uttar Pradesh is 498.1 mm (14% excess) and West Uttar Pradesh is 261.9 mm (-29% deficit). The extended range weather forecast for next two weeks (07 - 13 August and 14 - 20 August 2020) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

Western Uttar Pradesh

- Farmers are advised for sowing of late sown pigeon pea with varieties Bahar, Amar, Azad, Pusa-9, Malviya Vikash, Malviya chamtkar, Narendra arhar-1, Narendra arhar-2 and IPA-203.
- There is a possibility of outbreak of stem borer and shoot fly in maize crop. To prevent, it is advised to spray Imamactin benzoate 5% @ 4 g/ ha or Dimethoate 30% EC @ 1.0 litre/ 600-700 liter of water per ha during clear weather.

Odisha

Amount of rainfall received over Odisha is 570.5 mm (-11% deficit) during 01 June 2020 - 06 August 2020. The extended range rainfall forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) over Odisha is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of downy mildew disease in cucurbit vegetables. To manage, spray of Copper hydroxide 77 % WP @ 3 g/litre or Fosetyl-AL 80 % WP @ 3 g/ litre is advised.
- It is the optimum time for mango planting. Recommended varieties are Baiganpalli, Totapuri, Bombay green, Suvarnarekha, Neelam, Himsagar, Langra, Dusheri, Amrapalli, Mallika, Ratna, Ramkella, Rummani, Sindhu, Alphanso and Keshar.

West Bengal

Amount of rainfall received over West Bengal is 623.1 mm (-6% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over West Bengal is below normal for week-1 and week-2.

- Due to expected heavy rainfall, it is advised to continue the transplanting of *kharif* rice.
- Prevailing weather condition is favorable for thrips and mite in chillies. To control, spray of Diphentiuran @ 1.2 g/litre of water is recommended.
- For the management of brinjal fruit borer and stem borer, farmers are advised to apply Triazophos 40 EC @ 1.5 ml or Spinosad 45 EC @ 0.2 ml or Cartap Hydrochloride @ 0.75 g/litre of water.

Jammu

Amount of rainfall received over Jammu is 157.4 mm (-48% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to congenial weather, attack of root weevil and thread worm in paddy is observed. To control, it is advised to apply 1 kg/kanal of Carbofuran 3G in fresh water.
- Farmers are also advised to monitor the incidence of cutworm in maize. If observed, apply Carbofuran 3G @ 1 kg/kanal during clear weather.

Rajasthan

Amount of rainfall received over East Rajasthan is 229.8 mm (-31% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over East Rajasthan is below normal for week-1 and above normal for week-2.

- Due to dry spell and deficit rainfall condition, farmers are advised for mulching in *kharif* crops to minimize evaporation from crop fields.
- For the control of fall army worm in maize, spray Thiamethoxam 12.6 ml or Spinetoram 11.7 SC 250ml/ ha.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 291.7 mm (-32% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, nursery raising of medicinal plants viz. aswagandha, tulsi, digitalis, jangli bhindi and agarkara is advised.
- It is advised to maintain room temperature of 18-22°C and relative humidity around 85% for successful cultivation of mushrooms.
- The chance of ecto-parasite attack in dairy animal is very high. Spray, Butox @ 2ml/litre of water in cowshed.

Uttarakhand

Amount of rainfall received over Uttarakhand is 561.0 mm (-16% deficit) during 01 June 2020 - 06

August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Uttarakhand is normal for week-1 and week-2.

- For the control of insect infestation in crop fields, it is advised to use pheromone/light traps or yellow strips.
- Under rainy weather condition, farmers must arrange to drain out excess rain water from vegetable fields.

Jharkhand

Amount of rainfall received over Jharkhand is 520.8 mm (-11% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Jharkhand is normal for week-1 and week-2.

- Prevailing weather is favorable for the attack of blast disease in rice. It is advised to spray fungicide Beam @ 3 g/ 5 litres of water during clear weather.
- Farmers are advised for cultivation of green fodder crops like maize (African tall or J-100), lobia (PC 4200) or moth (Vidhaan-1).

Punjab

Amount of rainfall received over Punjab is 250.0 mm (-7% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Punjab is below normal for week-1 and above normal for week-2.

- Farmers are advised to monitor foliar leaf spots in cotton crop. If symptom is observed, spray Amistar Top @ 200 ml in 200 litre of water per acre.
- To manage fall armyworm in maize crop, it is advised to spray Coragen 18.5 SC @ 0.4ml/ litre of water or Delegate 11.7 SC (Spinetoram) @ 0.5ml/ litre of water or Missile 5SG (Emamectin benzoate).
- Prevailing weather condition is favorable for fruit rot and die back disease in chilli crop. Farmers are advised to spray 250 ml Folicur/ 750 g Indofil M-45 /Blitox in 250 litre of water per acre at 10 days interval.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 480.1 mm (-15% deficit) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Madhya Pradesh is normal for week-1 and above normal for week-2.

- Due to rainy weather condition, farmers are advised for proper drainage facilities in the pulses, oilseeds and vegetables fields.

Bihar

Amount of rainfall received over Bihar is 801.1 mm (41% excess) during 01 June 2020 - 06 August 2020. The extended range weather forecast provided for next two weeks (07 - 13 August and 14 - 20 August 2020) on rainfall over Bihar is normal for week-1 and week-2.

- Present weather condition is congenial for planting of mango saplings in the orchards with

varieties Mithua, Gulabkhaas, Bamba, Alfanso, Jardaalu, Langra (Maldah), Hemsager, Krishnabhog, Aman Dasahri. Few hybrid varieties viz., Mahmood Bahar, Prabhasker, Amrpaali, Mallika, Manjira, Menika Jawaher, Alfajli, Pusa arunima and Sunder langra are also recommended.

- Farmers of North Bihar are advised for sowing of chilli in nursery raised bed with varieties Pant mirch-3, Krishna, Arka lohit, Pusa jwala, Pusa sadabahar, Punjab lal, Kashi anmol and hybrid varieties Agni rekha, Kalyanpur chaman, Kalyanpur chatkar, BSS-267.

Disclaimer:

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