



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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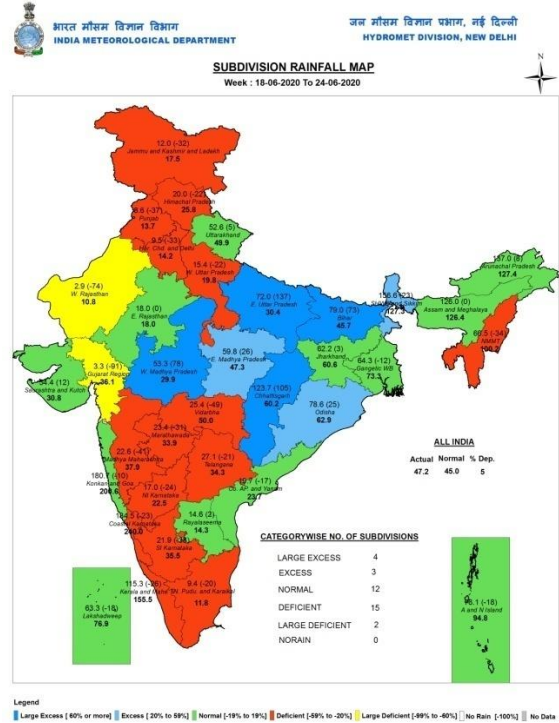
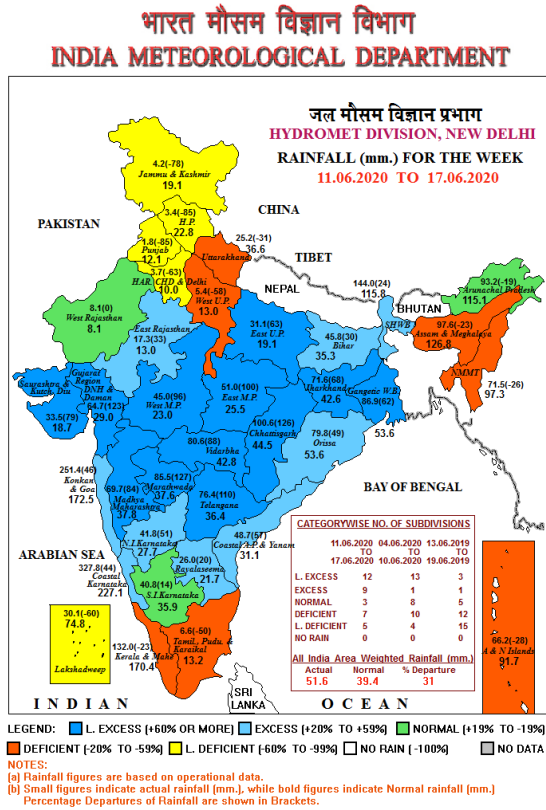
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall (11th to 24th June, 2020)

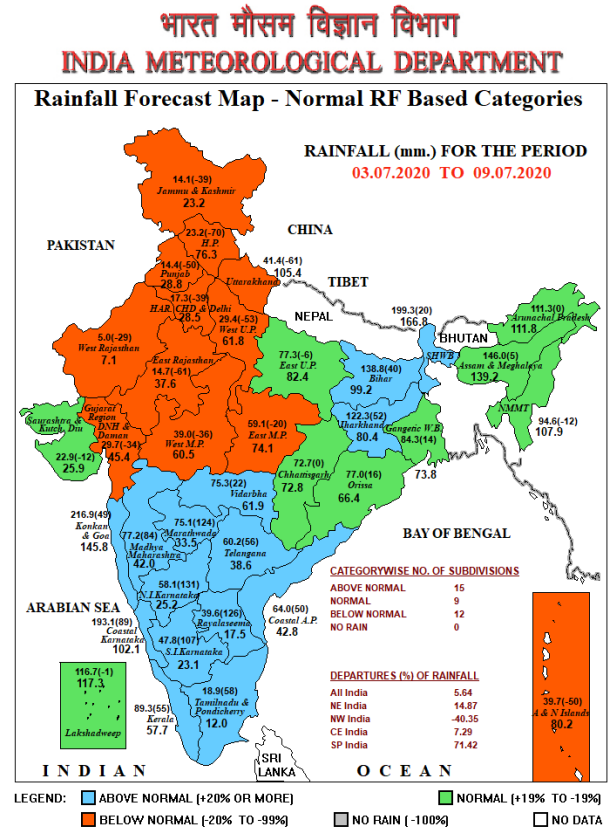
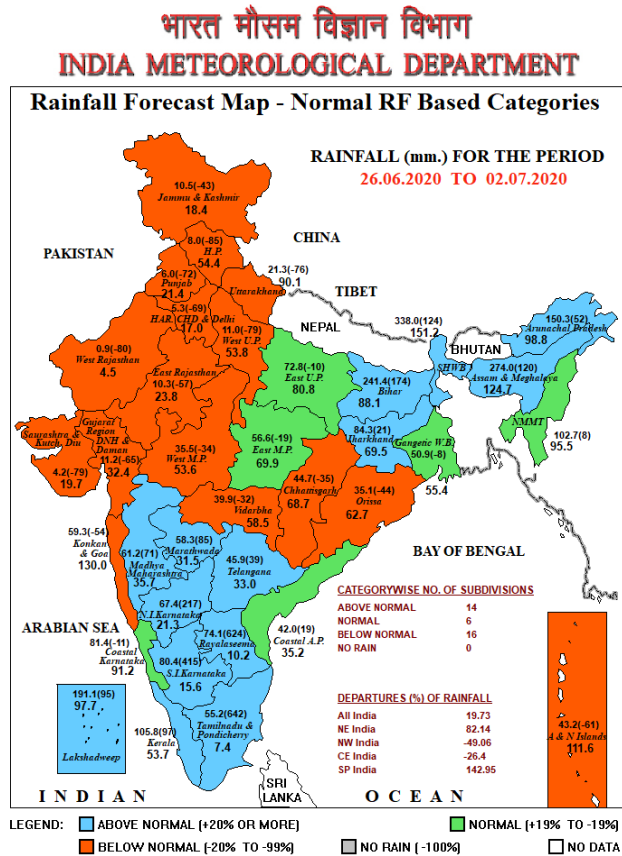


- Normal or above normal rainfall occurred in both the weeks in East Uttar Pradesh, East Rajasthan, Saurashtra & Kutch, Madhya Pradesh, Chhattisgarh, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Odisha, Arunachal Pradesh, Konkan & Goa, Rayalaseema and Coastal Andhra Pradesh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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 24 June)

(26th June to 9th July, 2020)



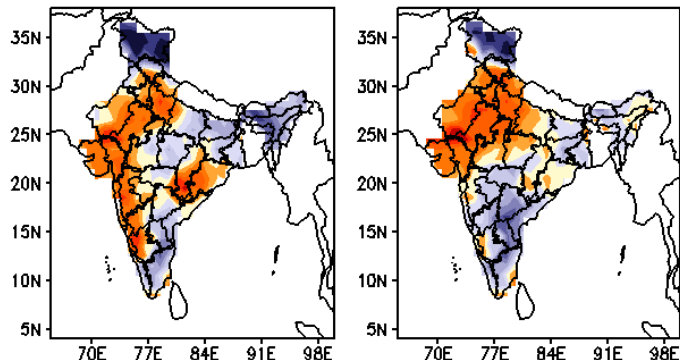
- **Week-1 (26.06.2020 to 02.07.2020):** Normal to above normal rainfall likely over most parts of northeast India and adjoining eastern parts of the country covering Bihar, East Uttar Pradesh, North-eastern States and Sub-Himalayan West Bengal. Above normal rainfall is likely over southern peninsula during the week except the western coastal parts of India.
- **Week-2 (03.07.2020 to 09.07.2020):** Rainfall is likely increase over southern Peninsula and adjoining central India associated with improvement in monsoon circulation.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for next 2 weeks (IC -24 June)
(26th June to 9th July, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 26Jun-02Jul)

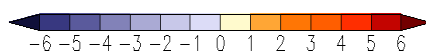
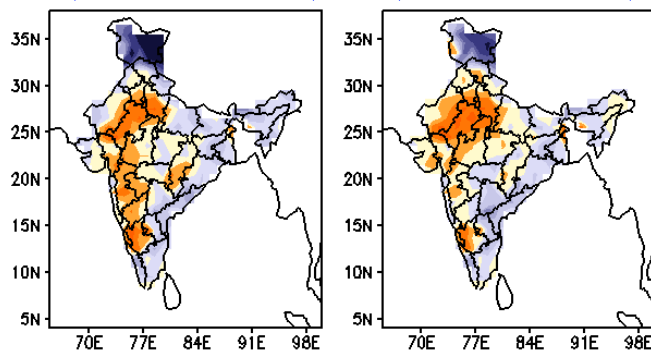
(Week2: 03Jul-09Jul)



MME forecast Tmin anomaly (Deg C)

(Week1: 26Jun-02Jul)

(Week2: 03Jul-09Jul)



Maximum Temperature (Tmax)

- **Week-1 (26.06.2020 to 02.07.2020):** Maximum temperature is likely to increase by 2 to 3⁰C over northwest and western parts of the country.
- **Week-2 (03.07.2020 to 09.07.2020):** Most parts of India are expected to have normal to below normal maximum temperature. However, over the northwest India Tmax will remain above normal during the week.

Minimum Temperature (Tmin)

- **Week-1 (26.06.2020 to 02.07.2020) and Week 2 (03.07.2020 to 09.07.2020):** The minimum temperature also shows almost similar pattern like that of Tmax pattern with above normal by 2 to 3 degree C likely over parts of northwest and northern Indian.

Strategic Agricultural Planning based on rainfall during next two weeks till 09 July 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 437.7 mm (-17% deficit) during the period of 01 June 2020 - 25 June 2020. The extended range weather forecast for next two weeks (26 June - 02 July and 03 - 09 July 2020) is above normal for week-1 and week-2.

- Due to rainy weather condition, there is a chance of anthracnose disease in cowpea. To control, application of 1% Bordeaux mixture or spray of Pseudomonas 20 g/ litre is advised.
- Due to increased rainfall, there is a chance of rhizome rot in banana. As a precaution, pour 3 litres of Pseudomonas solution (20g/litre) at the basin.
- Under prevailing weather, there is a chance of azhukal/ capsule rot disease in cardamom. To control, it is advised to spray Bordeaux mixture (1%) and drench the plant basins with Copper oxychloride (0.2%).

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 34.8 mm (-26% deficit) during the period of 01 June 2020 - 25 June 2020. The extended range weather forecast for next two weeks (26 June - 02 July and 03 - 09 July 2020) is above normal for week-1 and week-2.

- Prevailing weather condition is favorable for yellow mosaic virus incidence in green gram. To control, spray Notchi leaf extract 10% at 30 DAS or Neem formulation 3 ml/litre of water or Methyl Demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha or Thiamethoxam 75 WS 1g/ 3 litres of water.
- Due to anticipated weather condition, there is a chance of stem borer incidence in irrigated sorghum. To control, apply Phorate 10 G 8 kg/ha or Carbofuran 3 G 17 kg/ha mixed with sand to make up a total quantity of 50 kg/ha and apply on leaf whorls.

Maharashtra

Rainfall received over Madhya Maharashtra is 179.7 mm (49% excess), over Marathwada is 157.7 mm (45% excess), Vidharbha is 140.2 mm (12% excess) and Konkan region 645.0 mm (23% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast for next two weeks (26 June - 02 July and 03 - 09 July 2020) over Madhya Maharashtra and Marathwada is above normal and below normal over Vidharbha and Konkan for week-1 and above normal over Marathwada, Madhya Maharashtra, Vidharbha and Konkan for week-2.

Madhya Maharashtra

- Under rainy weather condition, sowing of *kharif* crops viz., pigeon pea, black gram, green gram, bajra, sunflower is recommended.
- For prevention against wilt and root rot disease in pigeon pea, green gram, black gram, cowpea,

soybean, sunflower crops, farmers are advised to treat the seeds with Trichoderma @ 5 g/kg seed before sowing.

Konkan

- Due to rainy weather condition, farmers are advised to transplant rice seedlings (5 to 6 leave) in the main field.

Vidharbha

- Under prevailing weather condition nursery seed sowing for *kharif* vegetables like chilli, tomato, brinjal etc. is advised.
- Sowing of *kharif* cotton is recommended with deshi varieties viz., AKA-5, AKA-7, AKA-8 and American improved varieties viz., AKH-081, AKH-09-5, PKV Rajat and AKH 8828.

Marathwada

- Under to rainy weather condition, sowing of cotton, soybean, pigeon pea, black gram/ green gram, maize, sorghum and pearl millet is advised.

Hisar

Amount of rainfall received over Hisar is 38.8 mm (11% excess) during 01 June 2020 - 25 June 2020. The extended range rainfall forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) over Hisar is below normal for week-1 and week-2.

- If dry weather persists, farmers may apply irrigation in vegetable 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 to 100 g mineral mixture daily with animal feed/fodder to keep animals healthy.

Karnataka

Rainfall received during 01 June 2020 - 25 June 2020 over South Interior Karnataka is 109.3 mm (-7% deficit) and North Interior Karnataka is 98.9 mm (13% excess). The extended range weather forecast for next two weeks (26 June - 02 July and 03 - 09 July 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and 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 red gram as long duration mono crop with varieties viz., TTB-7, BRG1, 2, 4 & 5, castor with varieties DCS-9 (Jyothi), DCH-177&32, maize with varieties Ganga-

11, Deccan -103, Vijaya composite, Composite NAC-6004, 6002, hybrid-Nityashree (NAH-2049).

- Farmers are advised to vaccinate cows against the Black quarter disease.

North Interior Karnataka

- Under prevailing rainy weather condition, sowing of *kharif* crops like greengram, redgram, bajra, navane and groundnut (bunch type), castor, onion, chilli are recommended.
- Farmers are also advised to prepare soil and water conservation structures in the fields to conserve rain water.
- 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 447.5 mm (8% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Assam is above normal for week-1 and normal for week-2.

- Due to rainy weather, it is advised to maintain proper drainage facility to avoid water stagnation in the rice nursery bed.
- Under prevailing heavy rainfall condition, farmers are advised to complete the planting of fodder crops like hybrid napier (NB 21, IGFRI-6, CO-2), Dinanath (JP-12, Pusa 3, Pusa 19) and Setaria (Kazungula, Nandi and PSS-1).

Jharkhand

Amount of rainfall received over Jharkhand is 162.3 mm (11% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Jharkhand is above normal for week-1 and week-2.

- It is the optimum time for sowing of medium duration varieties of maize with recommended varieties P.M.H.-3, Malviya sankar makka, BAUMH-3, Suwan composite- 1, HQPM-1, Vinay.
- Sowing of soybean is also advised with varieties Birsa Safed Soybean-2, Birsa Soybean-1, RAUS-5, RKS-18.

Uttar Pradesh

Rainfall received during 01 June 2020 - 25 June 2020 over East Uttar Pradesh is 139.0 mm (92% large excess) and West Uttar Pradesh is 35.9 mm (-28% deficit). The extended range weather forecast for next two weeks (26 June - 02 July and 03 - 09 July 2020) over East Uttar Pradesh is normal and West Uttar Pradesh is below normal for week-1 and normal over East Uttar Pradesh and below normal over West Uttar Pradesh for week-2.

- Farmers are advised for sowing of short duration rice varieties viz., N-118, N-80, N-1, N-2, N-97, Pant dhan-12, Barani deep, IR-50, Ratna, HUR-3022 and scented rice such as T-3, Pusa basmati-1,

Pusa sungandh-4&5, and Malviya sugandh-4-3 and Malviya basmati 10-9.

- Under prevailing weather condition, there is a chance of downy mildew in vegetables. Farmers are advised to spray Mancozeb @ 2g/ litre of water.

Odisha

Amount of rainfall received over Odisha is 208.3 mm (26% excess) during 01 June 2020 - 25 June 2020. The extended range rainfall forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) over Odisha is below normal for week-1 and normal for week-2.

- Under prevailing rainy weather condition, sowing of ragi in nursery is advised with varieties Divyasingh, AKP-2, AKP-3, AKP-7, Godavari, Neelachal, Bhairavi, Shubhra, and Chilika.
- Present weather condition is optimum for nursery sowing of rice under irrigated condition.

West Bengal

Amount of rainfall received over West Bengal is 217.0 mm (8% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over West Bengal is normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of attack of fruit borer in mango. To control, spray Dichlorovos @ 1.5 - 2.0 ml/ litre of water.
- Under prevalent weather situation, there is chance of the attack of weevil in jute. To control, it is advised to apply Endosulphan @ 2 ml/ litre of water.

Bihar

Amount of rainfall received over Bihar is 196.2 mm (63% large excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Land preparation is advised for sowing of pigeon pea in upland areas. Recommended varieties for North Bihar are Bahar, Pusa-9, Narendra Arher-1, Rajendra Arher-1 and Maalvia-13.
- To protect the summer vegetables from leaf feeder/fruit borer pest, spray of Dimethoate 30 EC @ 1-1.5ml/litre of water is advised in clear days.
- Sowing of *kharif* onion on raised bed is also advised. Recommended varieties are Agrifound Dark Red (ADR), N-53, Bhima super, Arkakalyan for sowing in North Bihar.
- During thunderstorm, farmers should not go to fields to avoid lightning related casualties.

Gujarat

Amount of rainfall received over Gujarat is 97.7 mm (5% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Gujarat is below normal for week-1 and week-2.

- If rainfall is low in any region, farmers may provide irrigation in elephant foot and yam.
- Sowing of pulse crops like pigeon pea (BDN-2, GT-100, GJP-1, Vaishali), green gram (GM-4, K-851, GAM-5) and black gram (Gujarat Adud-1, T-9) may be taken up.

Jammu

Amount of rainfall received over Jammu is 39.2 mm (-32% deficit) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Jammu is below normal for week-1 and week-2.

- Due to rainy weather condition, transplanting of seasonal annuals like gaillardia, balsam, cosmos, portulaca, kochia, sunflower, morning glory, gomphrena, celosia is advised.
- Sowing of maize may be taken up with recommended varieties viz., Vivek-25, Vivek QPM-9, HM-5 and HQPM-1.

Rajasthan

Amount of rainfall received over Rajasthan is 60.4 mm (38% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Rajasthan is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers of southern parts are advised to sow maize and soybean. Recommended varieties of maize are Pratap QPM-1, HQPM-1, HQPM-5, PEHM-2 and Pratap hybrid maize-1, Pratap Makka-9, Pratap hybrid Makka-3 and varieties of soybean are Pratap soya-1, Pratap Raj soya- 24, NRC-37, RKS-45, RKS-18.
- Farmers of Western parts are advised to sow bajra and moth. Improved varieties of bajra are HHB-67, Raj-171, ICMH-356, RHB-121, RHB-173, RHB-154 &177 and moth are RMO-257, RMO-225, RMO-425, RMO-423, RMO-40.

Andhra Pradesh

Amount of rainfall received over Andhra Pradesh is 66.9 mm (7% excess) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Andhra Pradesh is above normal for week-1 and week-2.

- Present prevailing weather condition is favourable for incidence of early shoot borer in sugarcane crop. Farmers of North Coastal, Godavari and Krishna districts are advised to spray Chlorantriliprole @ 0.3g/litre of water.
- Farmers are advised to continue sowing of rice in nursery in North Coastal AP, Godavari zones, Krishna zone, Kurnool, Nellore districts.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 60.3 mm (-17% deficit) during 01 June 2020 - 25 June 2020. The extended range weather forecast provided for next two weeks (26 June - 02 July and 03 - 09 July 2020) on rainfall over Himachal Pradesh is below normal for week-1 and week-2.

- Sowing of seeds of babul, subabul, khair, amla and prosop in polythene bags for raising nursery is advised.
- Due to increase in temperature, farmers are advised to harvest matured vegetables during morning and evening hours.

Disclaimer:

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