



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 27 May - 09 June 2022

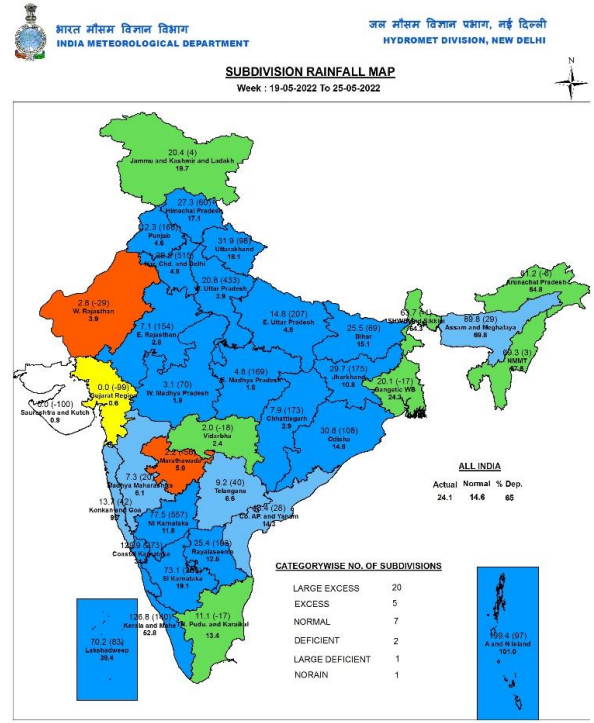
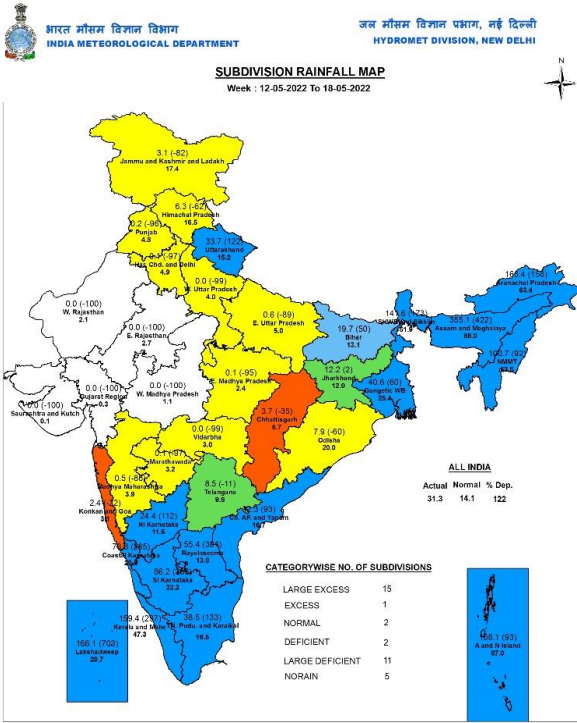
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**AICRP on Agro-Meteorology (AICRPAM)
Central Research Institute for Dryland Agriculture (CRIDA)
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&
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Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (12th May to 25th May, 2022)



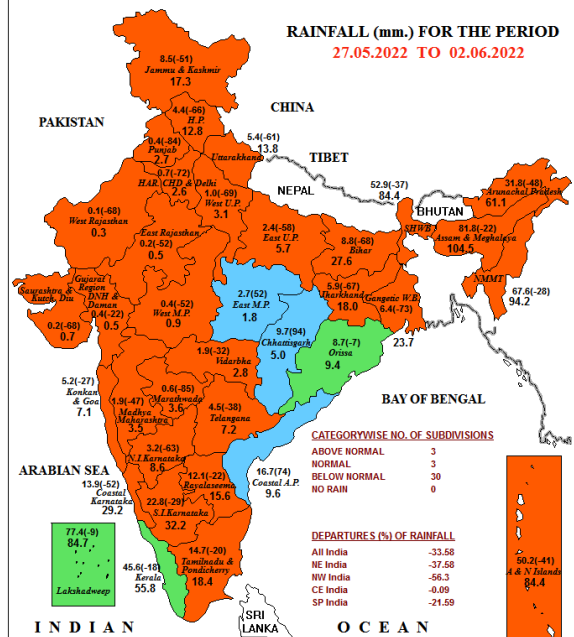
- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Bihar, Jharkhand, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema, Karnataka, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, East Rajasthan, Odisha, Konkan & Goa, Madhya Maharashtra, Vidarbha, Madhya Pradesh and Chhattisgarh.
- Below Normal rainfall/no rain occurred over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 25 May) (27th May to 9th June 2022)

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Rainfall Forecast Map - Normal RF Based Categories

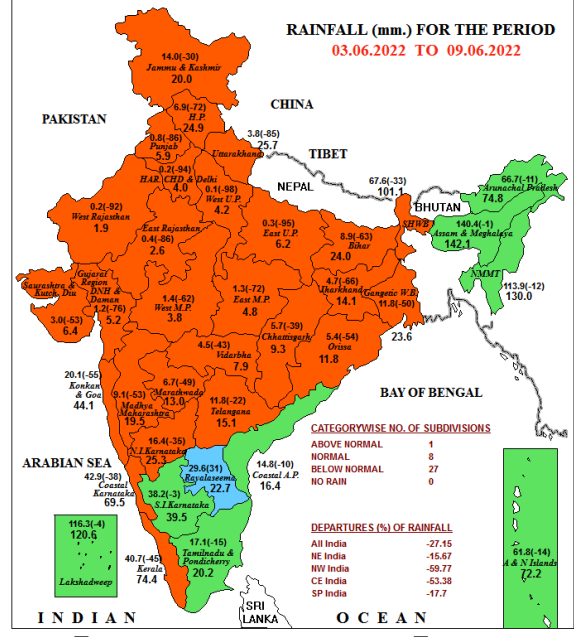


NOTES:

- [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

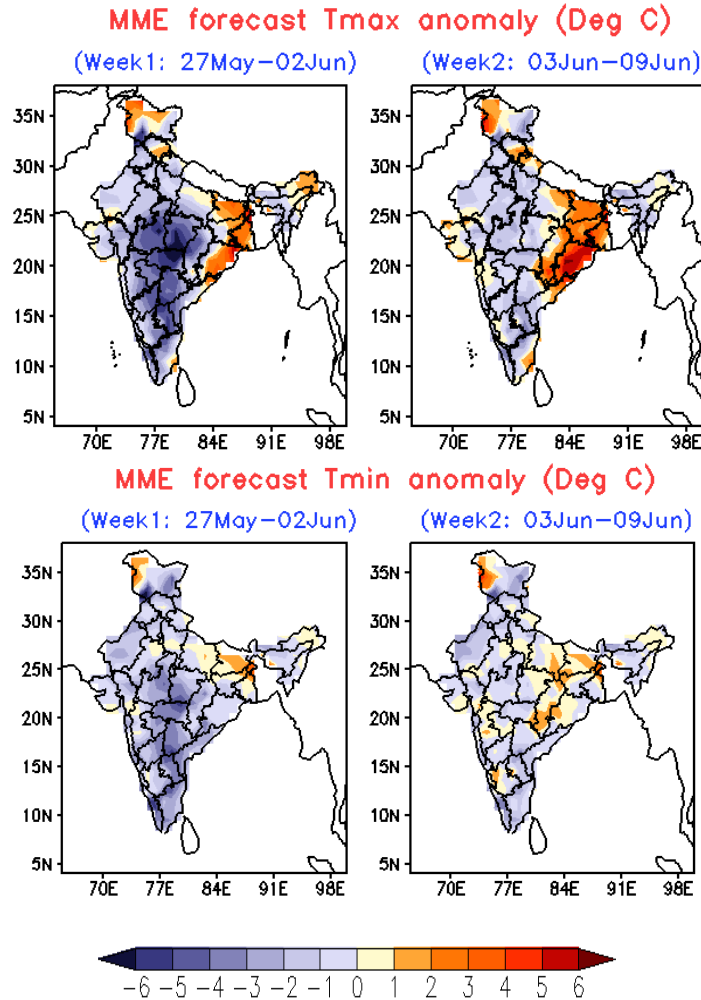


NOTES:

- [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.

- **Week 1 (27.05.2022 to 02.06.2022):** The South peninsula will get rainfall in week 1 (including that over Kerala). Rainfall likely over North East India in week 1.
- **Week 2 (03.06.2022 to 09.06.2022):** Weak monsoon with below normal rainfall likely over India in week 2. Rainfall over North East India will also continue in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 25 May)
(27th May to 9th June 2022)**



Maximum Temperature (Tmax)

- **Week 1 (27.05.2022 to 02.06.2022) and Week 2 (03.06.2022 to 09.06.2022):** Some parts of eastern coastal region of Odisha and adjoining Jharkhand, Chhattisgarh, Bihar will have above normal Tmax in week 1 and week 2. Over rest of the region it will be mainly below normal.

Minimum Temperature (Tmin)

- **Week 1 (27.05.2022 to 02.06.2022) and Week 2 (03.06.2022 to 09.06.2022):** No significant anomaly.

Strategic Agricultural Planning based on rainfall during the next two weeks till 09 June 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 641 mm (103% large excess) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) is normal for week-1 and below normal for week-2.

- During rainy season, there is a chance of sigatoka disease in banana. As a prophylactic measure, it is advised to spray 20g *Pseudomonas* per one litre of water.
- Since there is a chance of lodging and fruit fall due to wind, it is advised to provide proper staking, ensure drainage facilities in the field, strengthen the pandals and harvest the matured vegetables.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 158 mm (34% excess) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) is below normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for mealybug infestation in guava and mango. Farmers are advised to spray Triazophos 2 ml+ Neem oil 5 ml/litre or Phosalone 35 EC 1.5 ml + Neem oil 5 ml/litre.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

17 mm (-38% deficit) rainfall over Madhya Maharashtra; 4 mm (-83% large deficit) in Marathwada; 27 mm (22% excess) in Konkan region and 4 mm (-84% large deficit) over Vidarbha was observed during 01 March - 27 May 2022. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and week-2.

Vidarbha

- In mandarin orange/sweet orange/acid lime, to control fruit drop due to summer heat and windy condition, it is advised to spray of Gibberellic acid 1.5 g + urea 1kg + 100 litres of water.
- To prevent the cotton crop from pink boll worm attack, it is advised to avoid pre-monsoon cotton planting.

Madhya Maharashtra

- To reduce rate of evapotranspiration in fruit crops like grape, pomegranate, mango and sapota and to maintain soil temperature in fruit orchards, mulching with sugarcane trash or farm waste

@ 5 to 7 tons per ha is recommended.

- Under prevailing hot weather, it is advised to protect newly planted orchard from heat by temporary shed over the plants.

Konkan

- To prevent the incidence of bud rot disease on young coconut plant during monsoon season, it is advised to spray 1% Bordeaux mixture onto the crown region of palm.

Hisar

The amount of rainfall received over Hisar was 33 mm (-6% deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) is below normal for week-1 and week-2.

- As there is a possibility of variable or dry weather and increase in day temperature, farmers are advised to apply light irrigation for vegetable crops and fruits plants as per requirement.
- Under prevailing weather condition, farmers are advised for sowing of sorghum, maize and lobia as a fodder crop.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 21 mm (-28% deficit) and over West Uttar Pradesh was 26 mm (-7% deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and week-2.

Western Uttar Pradesh

- Under prevailing weather condition, sowing of short duration varieties of pigeon pea like *Paras*, *UPAS-120*, *Type-21* and *Pusa-992* after 30 May is advised.
- Farmers are advised to follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

Jammu

89 mm of rainfall (-73% large deficit) was received over Jammu during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Jammu is below normal for week-1 and week-2.

- Under prevailing weather, plough the land for soil solarization against insect pests and weed infestation.
- Nursery sowing of early transplanted rice is advised with recommended varieties *IET-1410*, *K-39*, *Ratna*, *PC-19*, and *Jaya*.

Assam

The amount of rainfall received over Assam during 01 March - 27 May 2022 was 900 mm (68% large excess). The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Assam is below normal for week-1 and normal for week-2.

- Due to continuous rainfall with high humidity for last few weeks, symptoms of fruit rot disease may be observed in chilli fruit. Therefore, for effective control it is advised to spray Captan 50 WP @ 2g/litres of water.
- May to August month is the suitable time for planting of cuttings of citrus in main field. Farmers are advised to make provisions for transplanting of citrus cuttings (stem/leaf-bud/air layering) in the main field before onset of monsoon.

Gujarat

No rainfall was received during 01 March - 27 May 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Gujarat is below normal for week-1 and week-2.

- For the control of aphids in cowpea, it is advised to spray Imidacloprid 17.8 SL 3 ml or Thiamethoxam 25 WG @ 3g in 10 litres of water and also apply irrigation as per soil moisture condition.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 59 mm (-75% large deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- The farmers are advised to visit their polyhouses regularly and monitor the crops raised in them. For maintaining the optimum temperature in the polyhouses farmers are advised to open the side vents during day time.
- Higher temperature prevalent during these days may impact poultry production. For reducing this impact of high temperature, farmers should increase feed by 10% with more protein diet.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 32 mm (-18% deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Chhattisgarh is above normal for week-1 and below normal for week-2.

- Deep ploughing of the field should be done and covered with polythene. This will prevent crops from soil-borne diseases, weeds and insect eggs will be destroyed in the soil.

- Need based irrigation and intercultural operation is advised in tomato, brinjal, chilli, okra and other vegetable crops and also increase the frequency of irrigation as per environment temperature.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 145 mm (-15% deficit) and Sub Himalayan West Bengal received 561 mm (41% excess) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) is above normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-1 and week-2.

- To prevent fruit drop and increase fruit size of mango, it is advised to spray Planofix @ 3ml/15litres of water along with compound micronutrient @ 45g/15 litres of water.
- In present weather conditions, caterpillars can infest the leaves of jute crop. To protect, it is advised to spray Fenvalerate @ 2 ml/ litre of water.

Karnataka

Rainfall received during 01 March - 27 May 2022 over South Interior Karnataka was 315 mm (149% large excess) and 161 mm (127% large excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and; normal over South Interior Karnataka and below normal over North Interior Karnataka week-2.

South Interior Karnataka

- Due to sufficient rainfall received in May, sowing of long duration crops like red gram (*BRG-1, 2, 4 & 5, TTB-7*) and Castor (*DCH-9, 32 & 177*) is recommended.
- Under prevailing weather condition, summer ploughing in field is advised to expose the soil to kill the different stages of insect and weeds.

Rajasthan

The amount of rainfall received over Rajasthan was 11 mm (-36% deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Rajasthan is below normal for week-1 and week-2.

- Present weather condition is suitable for the increasing outbreak of downy mildew disease in cucurbitaceous crops. If symptoms appears, farmers are advised to spray of Mancozeb @ 2g/litre of water.
- Because of increasing temperature, farmers are advised to irrigate the summer green gram at frequent intervals.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh was 8 mm (-62% large deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Madhya Pradesh is above normal for week-1 and below normal for week-2.

- Due to extreme rise in day temperature, it is advised to irrigate the summer crops, vegetables, nurseries, fodder crops and orchards during early morning or late evening hours of week-2.

Uttarakhand

The amount of rainfall received over Uttarakhand was 99 mm (-32% deficit) during 01 March - 27 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (27 May - 02 June 2022 and 03 - 09 June 2022) over Uttarakhand is below normal for week-1 and week-2.

- Due to the good rainfall received in the region, farmers can start the preparation of field for sowing of maize crop as sufficient moisture is present in the fields.

Disclaimer:

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