



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 20 May - 02 June 2022

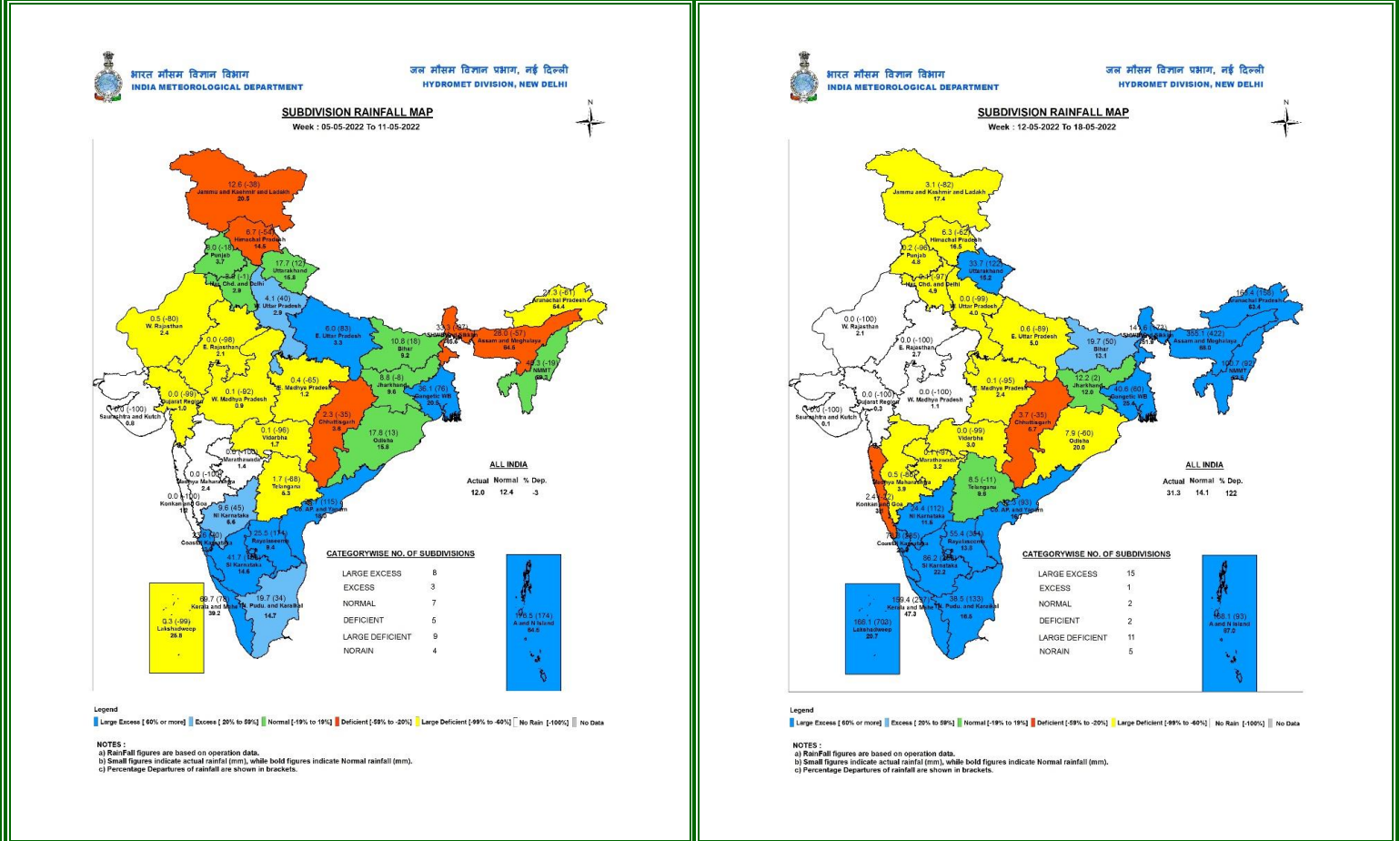
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Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

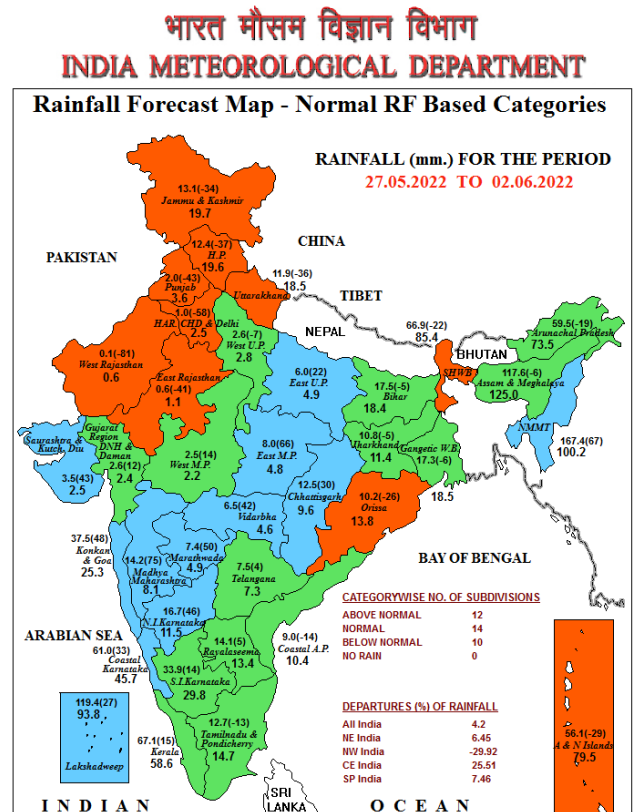
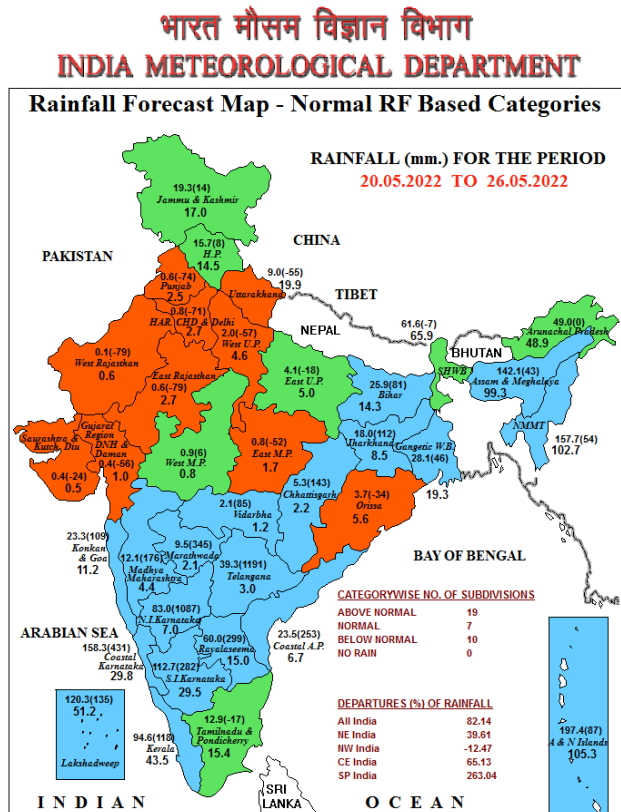
Realized Rainfall (5th May to 18th May, 2022)



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

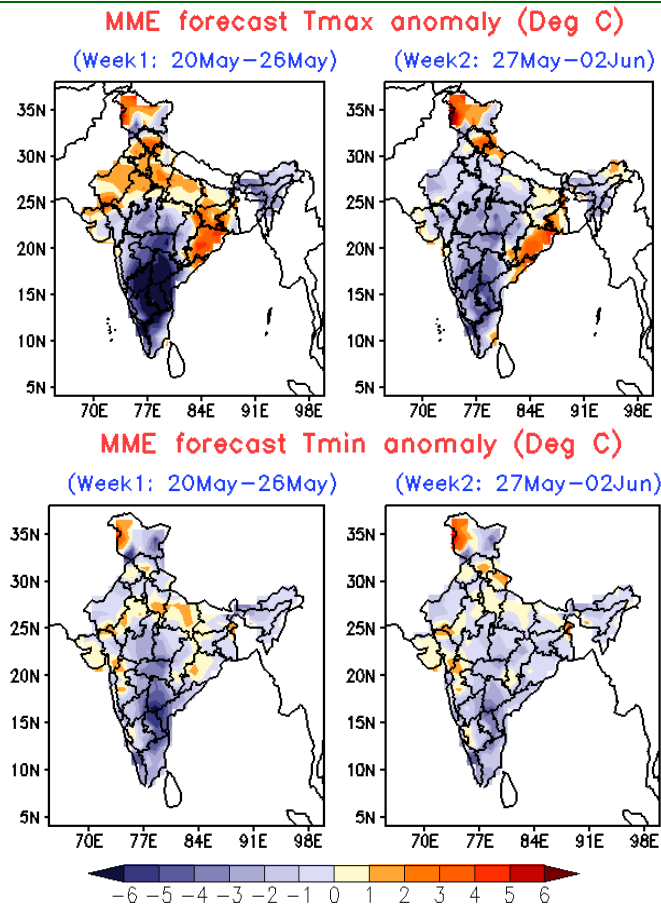
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 18 May) (20th May to 2nd June 2022)



- Week 1 (20.05.2022 to 26.05.2022) and Week 2 (27.05.2022 to 02.06.2022):** The South peninsula will remain active in week 1 over Kerala and Karnataka with onset of monsoon over Kerala. The rainfall over the south peninsula and adjoining Southeast Arabian Sea will continue in week 2 also with progress of monsoon to the north along the west-coast in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 18 May)
(20th May to 2nd June 2022)**



Maximum Temperature (Tmax)

- **Week 1 (20.05.2022 to 26.05.2022) and Week 2 (27.05.2022 to 02.06.2022):** Some parts of Northwest India and adjoining region of Uttar Pradesh, Bihar and also the eastern coastal region of Odisha, and adjoining Jharkhand, Chhattisgarh will have above normal Tmax in week 1 mainly with slight positive anomaly over the east coast of India in week 2. Mainly below normal Tmax likely over rest of the region.

Minimum Temperature (Tmin)

- **Week 1 (20.05.2022 to 26.05.2022) and Week 2 (27.05.2022 to 02.06.2022):** Central and east central parts of India will have normal to slight negative Tmin anomalies during the period week 1 and week 2. However, northern India and adjoining Uttar Pradesh and Bihar will have slight positive Tmin anomalies mainly during week 1 and week 2.

Strategic Agricultural Planning based on rainfall during the next two weeks till 02 June 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 547 mm (111% large excess) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) is above normal for week-1 and week-2.

- Because of continuous rainfall, there is a chance of water stagnation in the paddy fields. Hence, opening of drainage channels in the field is recommended.
- Under prevailing rainy weather condition, it is advised to avoid water logging near the cattle sheds and ensure proper ventilation.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 147 mm (40% excess) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) is above normal for week-1 and week-2.

- Prevailing weather condition is congenial for rust in sorghum. Farmers are advised to spray Mancozeb @ 1kg/ha and repeat fungicidal application after 10 days.
- Under prevailing hot weather condition, farmers are advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

16 mm (-25% deficit) rainfall over Madhya Maharashtra; 2 mm (-90% large deficit) in Marathwada; 21 mm (79% large excess) in Konkan region and 2 mm (-92% large deficit) over Vidarbha was observed during 01 March - 20 May 2022. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is above normal for week-1 and week-2.

Vidarbha

- In view of isolated rainfall forecast over the region, it is advised to harvest mature summer crops and keep the harvested produce protected in safer place.
- 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 weather condition, there is possibility of incidence of aphids, hoppers on okra

crop. If incidence is noticed, it is advised to spray Dimethoate 30% EC @ 15 ml per 10 litres or Lambda cyhalothrin 5% EC @ 6 ml per 10 litres of water.

Hisar

The amount of rainfall received over Hisar was 4 mm (-87% large deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 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.

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 7 mm (-72% large deficit) and over West Uttar Pradesh was 4 mm (-83% deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over East Uttar Pradesh is normal and West Uttar Pradesh is below normal for week-1 and above normal over East Uttar Pradesh and normal over West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the dry weather condition, farmers are advised to maintain the soil moisture in *zaid* maize, green gram, black gram and vegetable crops.
- Farmers are advised to follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

Jammu

69 mm of rainfall (-78% large deficit) was received over Jammu during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Jammu is normal for week-1 and below normal for week-2.

- To prevent fruit drop in citrus orchard, it is advised to spray 2,4-D @ 10 ppm during clear weather condition.
- Monitoring in tomato crop for leaf curl disease is advised. For management, it is advised to remove virus infected plants and spray Imidacloprid @ 0.5ml/litre of water to check further spread of disease by whitefly.

Assam

The amount of rainfall received over Assam during 01 March - 20 May 2022 was 858 mm (85% excess). The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Assam is above normal for week-1 and normal for week-2.

- Taking advantage of pre-monsoon rainfall received during the past week and also the anticipated

rainfall in the coming week, farmers can start nursery bed preparation for sowing of sali rice seeds.

- 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.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 91 mm (12% excess) and over Rayalaseema 123 mm (104% excess) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and normal for week-2.

- Present weather conditions are favorable for sucking pests in papaya grown in Srikakulam, Vizianagaram and West Godavari districts. For effective control of sucking pests, spraying of Imidacloprid @ 0.3g/litre of water is recommended.
- In Chittoor, Visakhapatnam, West Godavari, Nellore and Kadapa districts, the present weather conditions are favorable for incidence of fruit fly in mango. The fruit fly incidence can be effectively controlled by mixing Malathion @ 2 ml and Methyl eugenol @ 2 ml /litre of water to make a bait solution and pour 250 ml in plastic dish and place at four different places per acre.

Gujarat

No rainfall was received during 01 March - 20 May 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Gujarat is below normal for week-1 and normal for week-2.

- To control aphids in summer mungbean, it is advised to spray Imidacloprid 17.8 SL 3 ml or Thiamethoxam 25 WG @ 3 ml.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 33 mm (-85% large deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Himachal Pradesh is normal for week-1 and below normal for week-2.

- The current spell of expected rains might interfere with the harvesting/threshing of wheat/oat crops in upper areas of the state. The farmers must take above weather forecast into account while resuming the harvesting/threshing of matured crops.
- 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.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 22 mm (-39% deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Chhattisgarh is above normal for week-1 and 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.
- Due to the forecast of light and moderate cloudiness and light rain, farmers are advised for harvesting of matured summer paddy.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 123 mm (-14% deficit) and Sub Himalayan West Bengal received 504 mm (56% excess) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) is above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-1 and normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal for 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 - 20 May 2022 over South Interior Karnataka was 302 mm (185% large excess) and 150 mm (164% large excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and; normal over South Interior Karnataka and above normal over North Interior Karnataka week-2.

South Interior Karnataka

- Due to heavy downpour of rain and thunderstorm, fruit drop was observed in mango. For suitable control measures, it is advised to spray Carbaryl 4 g/litre of water.
- After receiving rainfall, farmers are advised for ploughing of fields, to improve infiltration and conservation of rainwater.

Rajasthan

The amount of rainfall received over Rajasthan was 3 mm (-75% large deficit) during 01 March - 20

May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Rajasthan is below normal for week-1 and week-2.

- Considering the possibility of strong wind, farmers are advised to pick up okra fruits and other vegetables to avoid possible losses.
- Because of increasing temperature, farmers are advised to irrigate the summer green gram at frequent intervals.

Punjab

The amount of rainfall received over Punjab was 5 mm (-90% large deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Punjab is below normal for week-1 and week-2.

- Farmers are advised to frequently irrigate the crops/orchards/ vegetables so as to save the crops from prevailing high temperatures.
- Fruit drop is increasing with rise in temperature. Keep the soil moisture at optimum level in peach and plum orchards. In citrus, litchi and mango, apply light and frequent irrigations.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh was 2 mm (-92% large deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Madhya Pradesh is below normal for week-1 and above 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-1.

Uttarakhand

The amount of rainfall received over Uttarakhand was 69 mm (-48% deficit) during 01 March - 20 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (20 - 26 May 2022 and 27 May - 02 June 2022) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition it is advised to continue field preparation for kharif crops.

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