



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 06 May - 19 May 2022

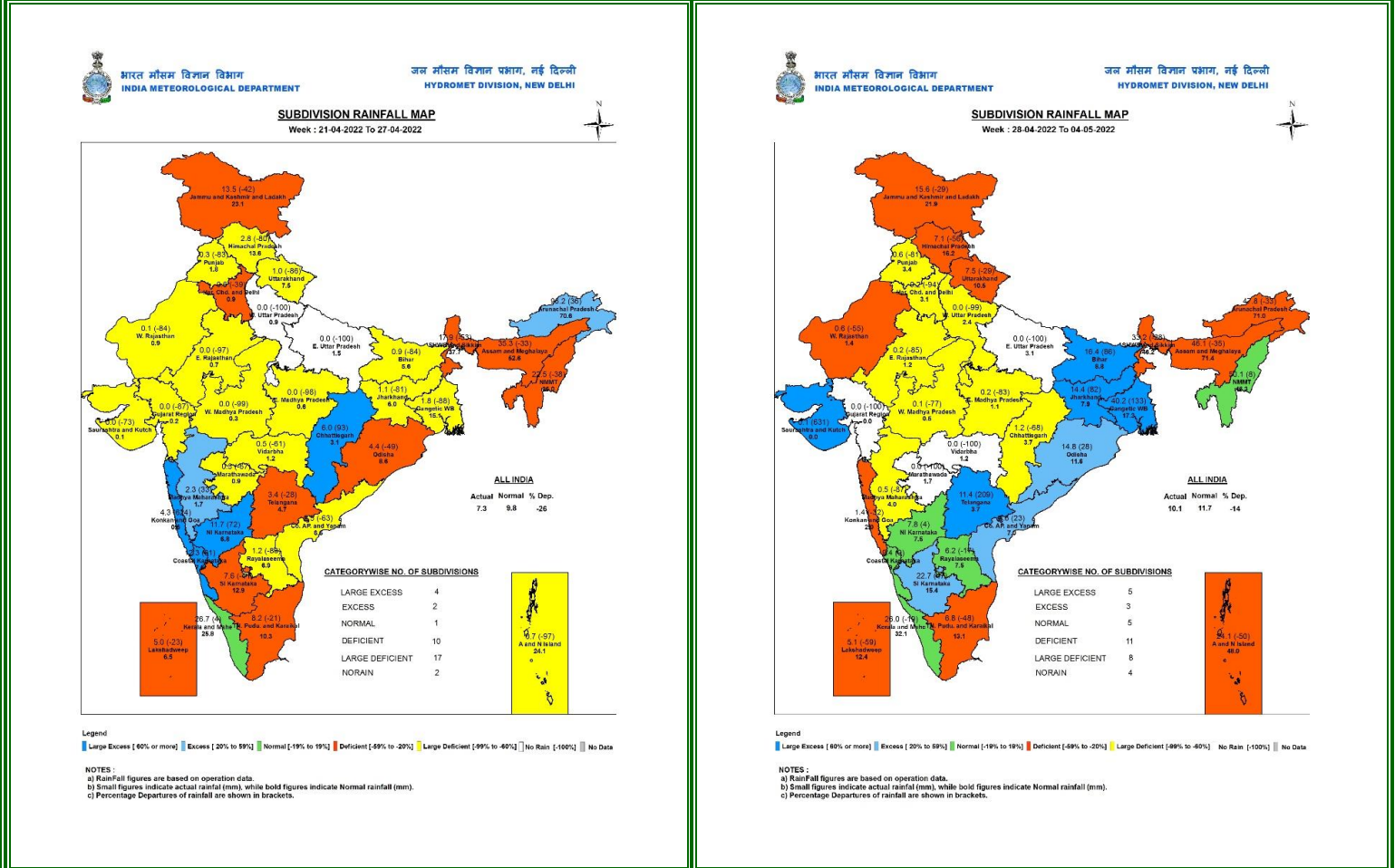
Date of issue: 06 May 2022

Issued by

**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 Temperature)

Realized Rainfall (21st April to 4th May, 2022)



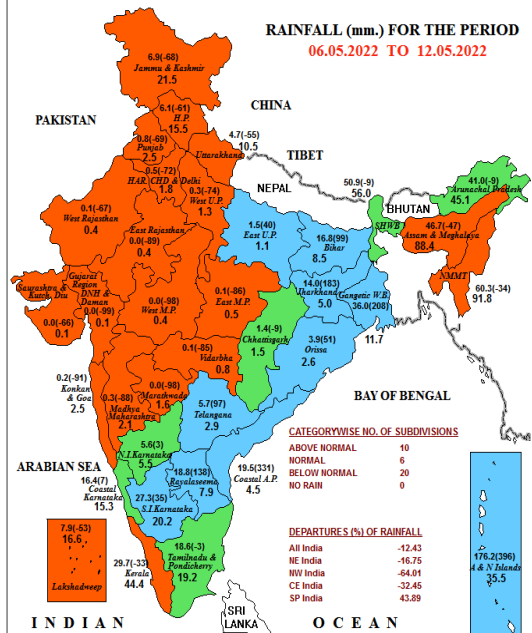
- Normal or above normal rainfall occurred in both the weeks in Coastal Karnataka, North Interior Karnataka and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), Gangetic West Bengal, Bihar, Jharkhand, Odisha, Chhattisgarh, Saurashtra & Kutch, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka, Telangana, Coastal Andhra Pradesh & Yanam and Rayalaseema.
- 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 – 04 May) (6th to 19th May, 2022)

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Rainfall Forecast Map - Normal RF Based Categories

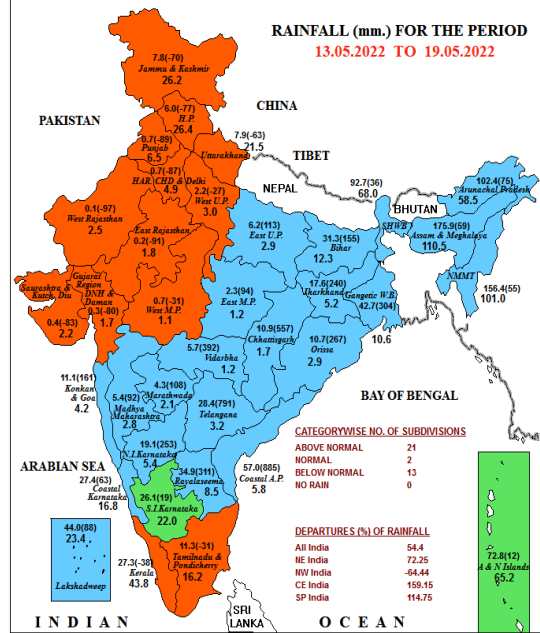


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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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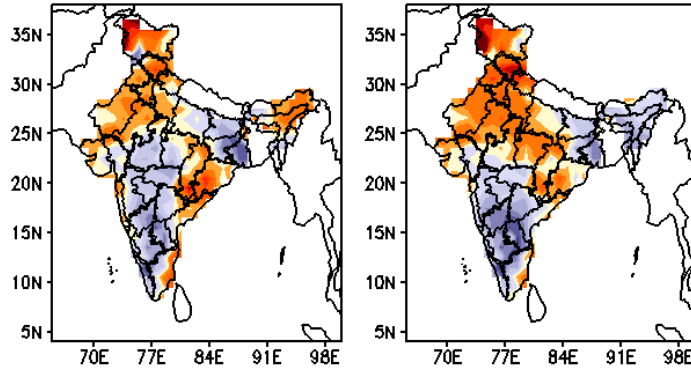
- **Week 1 (06.05.2022 to 12.05.2022) and Week 2 (13.05.2022 to 19.05.2022):** Bay of Bengal will remain active in week 1. Under the influence of trough and cyclonic circulation over northeast India, thunderstorms associated rainfall will continue over the region in week 2. Slight early onset over Kerala is likely.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 04 May)
(6th to 19th May, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 06May–12May)

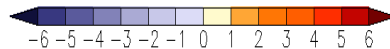
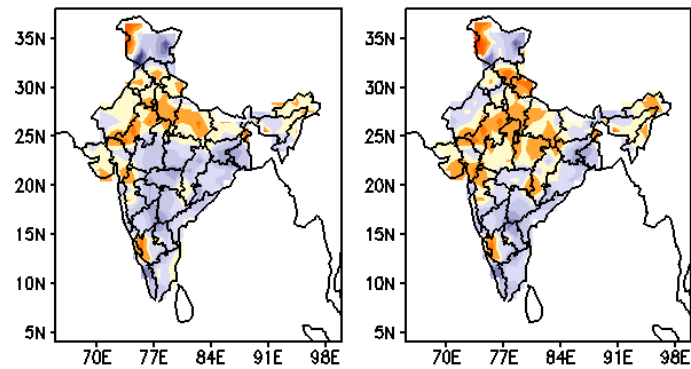
(Week2: 13May–19May)



MME forecast Tmin anomaly (Deg C)

(Week1: 06May–12May)

(Week2: 13May–19May)



Maximum Temperature (Tmax)

- **Week 1 (06.05.2022 to 12.05.2022):** High temperature is likely to continue in week 1 onwards. Some parts of Northwest India and eastern coastal region will have slightly above normal Tmax in week 1.
- **Week 2 (13.05.2022 to 19.05.2022):** Tmax condition over northwest India is likely to increase in week 2.

Minimum Temperature (Tmin)

- **Week 1 (06.05.2022 to 12.05.2022) and Week 2 (13.05.2022 to 19.05.2022):** Central and east central parts of India will have normal to slight negative Tmin anomalies during the period. However, northern India and adjoining Uttar Pradesh and Bihar will have positive Tmin anomalies during the period.

Strategic Agricultural Planning based on rainfall during the next two weeks till 19 May 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 267 mm (66% large excess) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) is below normal for week-1 and week-2.

- To avoid the damage in vegetable gardens due to summer rains and heavy wind, it is advised to provide proper staking, ensure drainage facilities in the field, strengthen the pandals and harvest the matured vegetables.
- For the management of pod bug infestation in cowpea, it is advised to spray a solution of fish amino acid at 3-5 ml per litre of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 90 mm (26% excess) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) is normal for week-1 and below normal for week-2.

- Prevailing weather condition is favorable for mealy bug incidence 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

Rainfall received over Madhya Maharashtra is 9 mm (-31% deficit); Marathwada is 2 mm (-89% large deficit); Konkan region is 10 mm (102% large excess) and 0.6 mm (-96% large deficit) over Vidarbha was observed during 01 March - 05 May 2022. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and above normal for week-2.

Vidarbha

- To reduce the impact of heat wave, farmers are advised to maintain adequate moisture in the soil profile in growing summer crops, vegetables and orchards by applying irrigation during early morning or evening hours.
- Take the necessary precautions to help reduce the incidence of fires on farmland during hot summer months. Farmers are advised to remove dry grass in orchards at ground level and also remove dry grass in the nearby vicinity to avoid accidental fire incidence during hot summer months.

Konkan

- Due to rise in temperature and decrease in humidity, it is advised to provide irrigation to arecanut and coconut orchards at 3-4 days interval.
- Due to rise in temperature, there is a possibility of increase in body temperature of farm animals. Hence, it is advised to provide clean, hygienic and sufficient amount of drinking water to the farm animals. To reduce the stress due to heat on farm animals, provide roughages by mixing with solution of 1% jaggery and 0.5% salt separately.

Hisar

The amount of rainfall received over Hisar is 4 mm (-84% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) is below normal for week-1 and week-2.

- As here is a possibility of variable or dry weather and increase in day temperature farmers are advised to apply light irrigation in planted vegetable crops and fruits plants as per requirement.
- Farmers are advised to safeguard themselves under the heatwave conditions

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh is 4 mm (-74% large deficit) and over West Uttar Pradesh is 4 mm (-77% deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over East Uttar Pradesh is above normal and West Uttar Pradesh is below normal for week-1 and 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

The amount of rainfall received over Jammu is 59 mm (-78% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of summer fodder (maize + cowpea + charri) and bajra is advised.
- 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 is 420 mm (30% excess) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Assam is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to go for planting of banana dwarf variety (var. *Jahaji*), medium tall variety (var. *Chenichampa*, *Malbhog*, *Barjahaji*) from this month.
- Under prevailing weather condition, farmers are advised for sowing of maize with recommended hybrid varieties like *Ganga 5*, *Vivek Maize Hybrid 47*, *Vivek Maize Hybrid 53* and *Bio 9544* etc. and composite varieties like *Dhawal*, *Navjot* etc.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh is 20 mm (-52% large deficit) and over Rayalaseema 20 mm (-42% deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and 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 Visakhapatnam, Kadapa, Nellore, Vizianagaram, Krishna, West Godavari, Prakasam Anantapur and Kurnool districts, the present weather conditions are favorable for incidence of leaf folder and stem borer in rice. For effective control, spraying of Acephate @ 1.5g or Chlorantraniliprole @ 0.4 ml/litre of water is advised.

Gujarat

No rainfall was received during 01 March - 05 May 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Gujarat is below normal for week-1 and week-2.

- To protect papaya fruits against high temperature condition, it is advised to cover papaya fruits using gunny bags.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh is 22 mm (-88% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Due to the continuous dry weather and high temperatures, the productivity of tea may decline.

Farmers are advised irrigate the tea orchards.

- Dairy farmers are advised to get their milch animals vaccinated for Foot and Mouth Disease (FMD) during this period.

Chhattisgarh

The amount of rainfall received over Chhattisgarh is 12 mm (-53% deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Chhattisgarh is normal for week-1 and above normal for week-2.

- Due to high temperature and increase in evaporation rates during past week, the water requirement of summer crops viz. bitter gourd, bottle gourd, okra, cowpea etc. are increased. Therefore, it is advised to reduce the interval between two irrigations to maintain proper soil-moisture and micro-climate within the crop canopy to minimize the adverse effects of high temperature or thermal stress.

West Bengal

The amount of rainfall received over Gangetic West Bengal is 44 mm (-54% deficit) and Sub Himalayan West Bengal received 302 mm (40% excess) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) is above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-1 and; above normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- For the management of mango hopper, it is advised to spray Dimethoate 30 EC @ 10ml/10 litres.
- In present weather condition, 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 - 05 May 2022 over South Interior Karnataka is 119 mm (80% large excess) and 54 mm (47% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over South Interior Karnataka is above normal and North Interior Karnataka is normal for week-1 and normal over South Interior Karnataka and above normal over North Interior Karnataka week-2.

South Interior Karnataka

- Fruit drop in mango can be controlled by spraying Naphthalene acetic acid (NAA) @ 20 ppm twice at an interval of 15 days during the early stage (peanut stage/marble stage) of fruit development stage.
- After receiving rainfall, farmers are advised for ploughing of fields, to improve infiltration and conservation of rain water.

Uttarakhand

The amount of rainfall received over Uttarakhand is 18 mm (-82% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Uttarakhand is below normal for week-1 and week-2.

- Staking/support to the fruit plants and vegetables crops (tomato, capsicum) is advised against protection from strong winds.
- Under prevailing weather condition, transplanting of seedlings of summer vegetables like brinjal, tomato, capsicum and cucurbit crops to the main field is advised.

Rajasthan

The amount of rainfall received over Rajasthan is 3 mm (-59% deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 2022) over Rajasthan is below normal for week-1 and week-2.

- For the management of red beetle in cucurbit crops, dusting of Carbaryl 5% @ 25 kg/ha during morning or evening time is advised.
- Because of increasing temperature, farmers are advised to irrigate the summer green gram at frequent interval.

Punjab

The amount of rainfall received over Punjab is 4 mm (-89% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 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 moist 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 is 2 mm (-91% large deficit) during 01 March - 05 May 2022. The extended range weather forecast (rainfall) provided for the next two weeks (06 - 12 May 2022 and 13 - 19 May 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 at weekly intervals during early morning or in late evening hours.

Disclaimer:

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