



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 29 April - 12 May 2022

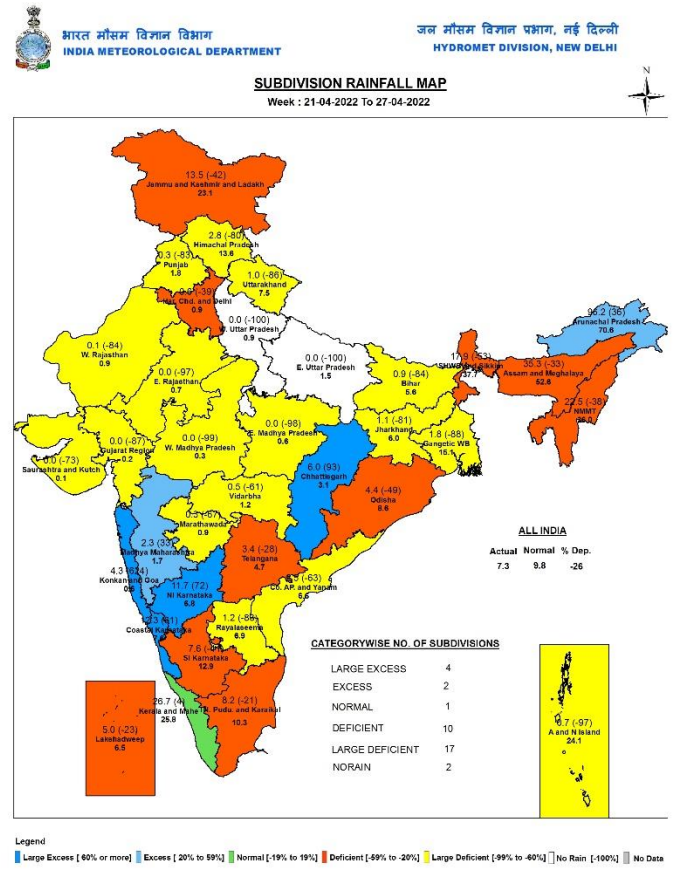
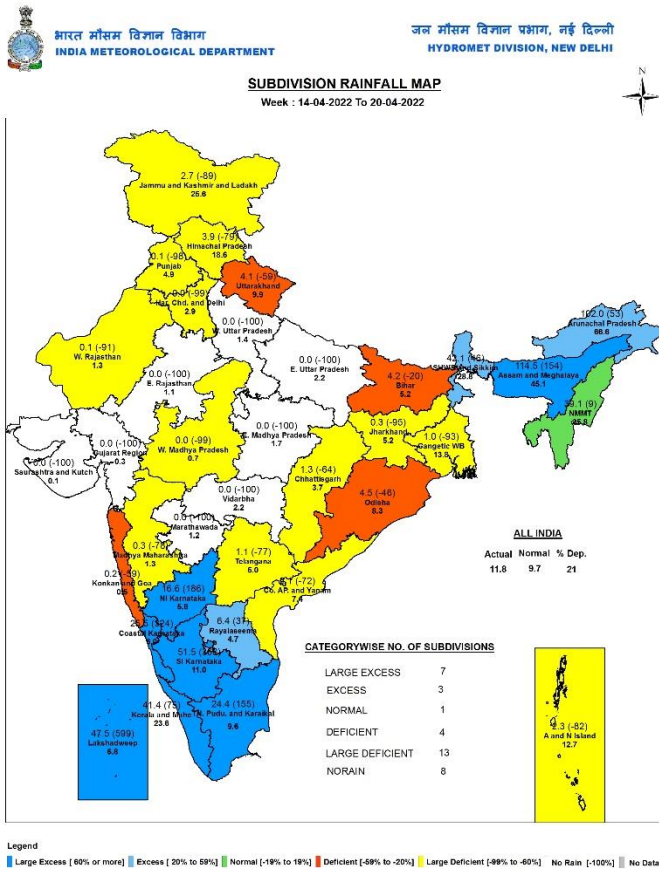
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**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA)
Indian Council of Agricultural Research (ICAR)
&
India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (14th to 27th April, 2022)



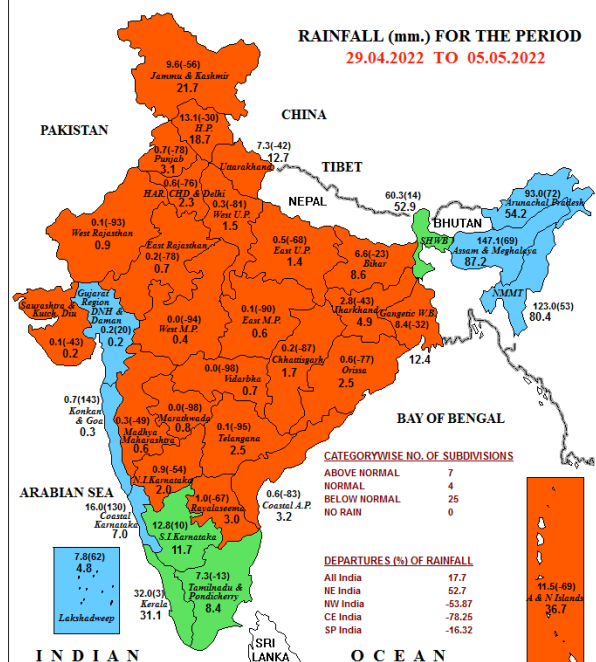
- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, North Interior Karnataka and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Chhattisgarh, Konkan & Goa, Madhya Maharashtra, South Interior Karnataka, Rayalaseema Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 27 April) (29th April to 12th May, 2022)

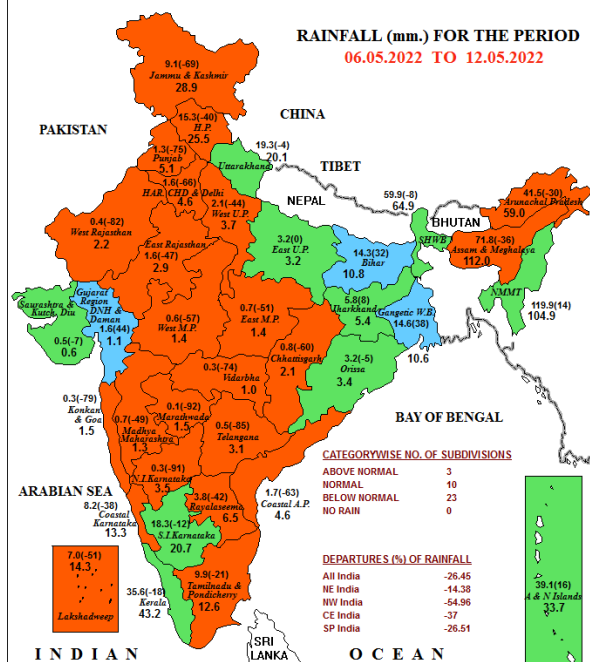
भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT

Rainfall Forecast Map - Normal RF Based Categories



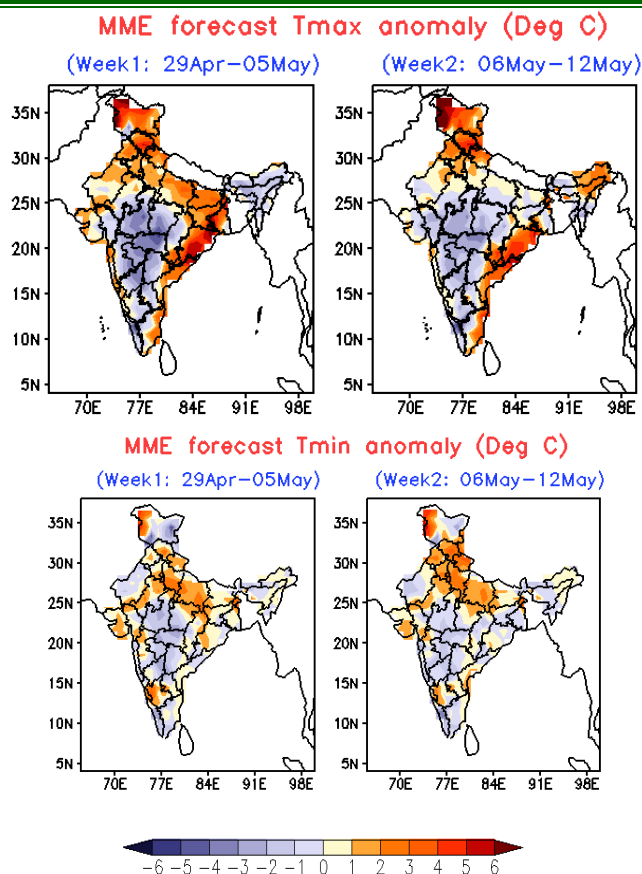
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Rainfall Forecast Map - Normal RF Based Categories



- Week 1 (29.04.2022 to 05.05.2022) and Week 2 (06.05.2022 to 12.05.2022):** Extreme north India and western Himalayan region will be under the influence of Western Disturbances mainly in week 2. Under the influence of trough and cyclonic circulation over northeast India, thunderstorms associated rainfall will continue during the period.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 27 April)
(29th April to 12th May, 2022)**



Maximum Temperature (Tmax)

- **Week 1 (29.04.2022 to 05.05.2022):** The northwest India, Gujarat, Delhi. Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal and adjoining eastern coastal states of India (Odisha, Chhattisgarh, Coastal Andhra Pradesh and adjoining region) will be with positive Tmax anomalies in week 1.
- **Week 2 (06.05.2022 to 12.05.2022):** Tmax positive anomaly is expected to continue over northwest and the east coast of India during week 2.

Minimum Temperature (Tmin)

- **Week 1 (29.04.2022 to 05.05.2022) and Week 2 (06.05.2022 to 12.05.2022):** 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 positive Tmin anomalies mainly during week 1 and week 2.

Strategic Agricultural Planning based on rainfall during the next two weeks till 12 May 2022

Agromet Advisories

Kerala

The amount of rainfall received over Kerala is 234 mm (82% large excess) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) is 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 attack 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 79 mm (32% excess) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) is normal for week-1 and below normal for week-2.

- Prevailing weather conditions are congenial for shoot fly incidence in sorghum. Farmers are advised to spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha under clear weather conditions.
- Prevailing weather conditions are congenial for stem weevil incidence in cotton. Farmers are advised to spray Carbaryl 50 WP 2.5 kg/ha or Carbofuran 3G 33.3 kg/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 9 mm (-8% deficit); Marathwada is 2 mm (-87% large deficit); Konkan region is 9 mm (205% large excess) and 0.6 mm (-96% large deficit) over Vidarbha was observed during 01 March - 28 April 2022. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Konkan is above normal and Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below 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.
- Under prevailing weather condition, to control fruit drop in mandarin orange/sweet orange/acid lime, it is advised to spray Gibberellic acid 1.5 g or NAA 1 g + 1 kg urea + Carbendazim 0.1% @ 100 g per 100 litres of water.

Madhya Maharashtra

- To reduce the rate of evapotranspiration in fruit crops like grape, pomegranate, mango and sapota and to maintain soil temperature in the orchard, mulching with sugarcane trash or farm waste @ 5 to 7 tons per ha is recommended.
- Under prevailing weather conditions, watering is advised to the seedling in the nursery as per requirement in the summer season.

Konkan

- Due to rise in temperature and decrease in humidity, it is advised to provide irrigation to arecanut and coconut orchard at 3-4 days interval.
- Under prevailing weather condition, it is advised to start the land preparation for *kharif* season and expose soil to sun which will help in controlling weeds effectively.

Parbhani

- Due to increase in maximum temperature, water stress may occur in fruit orchard and vegetable crops. To prevent, irrigation management is advised as per requirement of the crops.
- To reduce the fruit drop in Ambe Bahar citrus, it is advised to spray Gibberellic acid @ 2 g per 100 litres of water and also provide shade to newly planted and small plants to protect them from temperature, make use of mulching around the stem in citrus orchard.

Hisar

The amount of rainfall received over Hisar is 0.7 mm (-96% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) is below normal for week-1 and week-2.

- There 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.
- Under prevailing hot weather conditions, farmers are advised to maintain a good amount of water in ponds to save fish from variable weather.
- Farmers are advised to safeguard themselves under the heatwave conditions

Uttar Pradesh

No rainfall was received during 01 March - 28 April 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and over East Uttar Pradesh is normal and over West Uttar Pradesh below normal 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.

- Under prevailing dry weather conditions, farmers are advised to harvest pulse crops.

Jammu

The amount of rainfall received over Jammu is 37 mm (-85% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Jammu is below normal for week-1 and week-2.

- 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 337 mm (50% excess) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Assam is above normal for week-1 and below 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.
- Present weather is congenial for occurrence of blight disease in the black gram crop. It is advised to apply Carbendazim 0.05% @ 300-500 g in 600-700 litres of water at an interval of 12-15 days as control measure.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh is 9 mm (-74% large deficit) and over Rayalaseema 11 mm (-59% deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Coastal Andhra Pradesh and Rayalaseema is below normal for week-1 and week-2.

- Present weather conditions are favourable for the incidence of fruit borer in brinjal grown in Vizianagaram, Visakhapatnam Nellore, Chittoor and Ananthapuramu districts. To control the fruit borer, spraying of Emamectin benzoate @ 0.4 g/litre of water is recommended.
- Weather conditions are favorable for the incidence of thrips in mango in Nellore, Guntur, Kurnool, Prakasam and Ananthapuramu districts., farmers are advised to spray Imidacloprid @ 0.3 ml/liter of water to control the thrips

Gujarat

No rainfall was received during 01 March - 28 April 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Gujarat is above normal for week-1 and week-2.

- To prevent damage of leaf minor, psylla and thrips in lemon orchard, it is advised to spray Imidacloprid 30.5 % @ 5 ml/10 litres of water.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh is 12 mm (-93% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised for picking tea at 8-10 day intervals to maintain quality of the product.
- 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 10 mm (-55% deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Chhattisgarh is below normal for week-1 and week-2.

- In summer paddy farmers are advised to control stem borer by spraying Rynaxypyr 20% SC @ 150 g/ha or Fipronil 5% SC @ 1 litre/ha.

West Bengal

The amount of rainfall received over Gangetic West Bengal is 4 mm (-95% large deficit) and Sub Himalayan West Bengal received 267 mm (59% excess) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) is below normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-1 and; above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal for week-2.

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

Karnataka

Rainfall received during 01 March - 28 April 2022 over South Interior Karnataka is 86 mm (71% large excess) and 42 mm (45% excess) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over South Interior Karnataka is normal and North Interior Karnataka is below normal for week-1 and week-2.

South Interior Karnataka

- Due to continuous dry spell in January to April month, termite attack is common in horticulture crops, forestry tree and shrubs. To control it is advised to apply Aldrin termiticide.
- Harvested crops (ragi, maize, redgram and other pulses) are winnowed, cleaned, sun dried and stored in dry gunny bags.

Uttarakhand

The amount of rainfall received over Uttarakhand is 8 mm (-91% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing dry weather condition, it is advised to apply need-based irrigation to standing field crops/vegetable crops and also postpone the application of pesticides and weedicides as strong winds are prevailing.
- Under prevailing weather condition, transplanting of seedlings of summer vegetables like brinjal, tomato, capsicum and cucurbit crops to the main field is advised, provide life saving irrigation to all the plants and also necessary arrangements should be done for moisture conservation.

Jharkhand

The amount of rainfall received over Jharkhand is 3 mm (-91% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 May 2022) over Jharkhand is below normal for week-1 and normal for week-2.

- Due to high day temperature may cause heat stroke in cattle. Hence, farmers are requested to provide plenty of drinking water for them and do not allow them to graze in sunlight during intense heat condition (especially during noon).
- Farmers who are interested to cultivate ginger, turmeric and oal (elephant foot yam) may arrange the improved seeds for timely sowing. The recommended variety of ginger is *Bardhwan*, *Suruchi*, *Nadiya*, *Suprabha*, and for turmeric is *Rajendra Sonia* and for oal is *Gajendra*, *Vidhan*, *Kusum*, *Sri Padma* etc.

Rajasthan

The amount of rainfall received over Rajasthan is 3.2 mm (-54% deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 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.
- Field preparation is advised for the sowing of cotton during this week. Farmers are advised to

procure good quality certified seeds from reliable sources.

Punjab

The amount of rainfall received over Punjab is 0.8 mm (-98% large deficit) during 01 March - 28 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (29 April - 05 May 2022 and 06 - 12 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. Continuously keep the soil moist in peach and plum orchards. In citrus, litchi and mango apply light and frequent irrigations.

Disclaimer:

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