



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 22 April - 05 May 2022

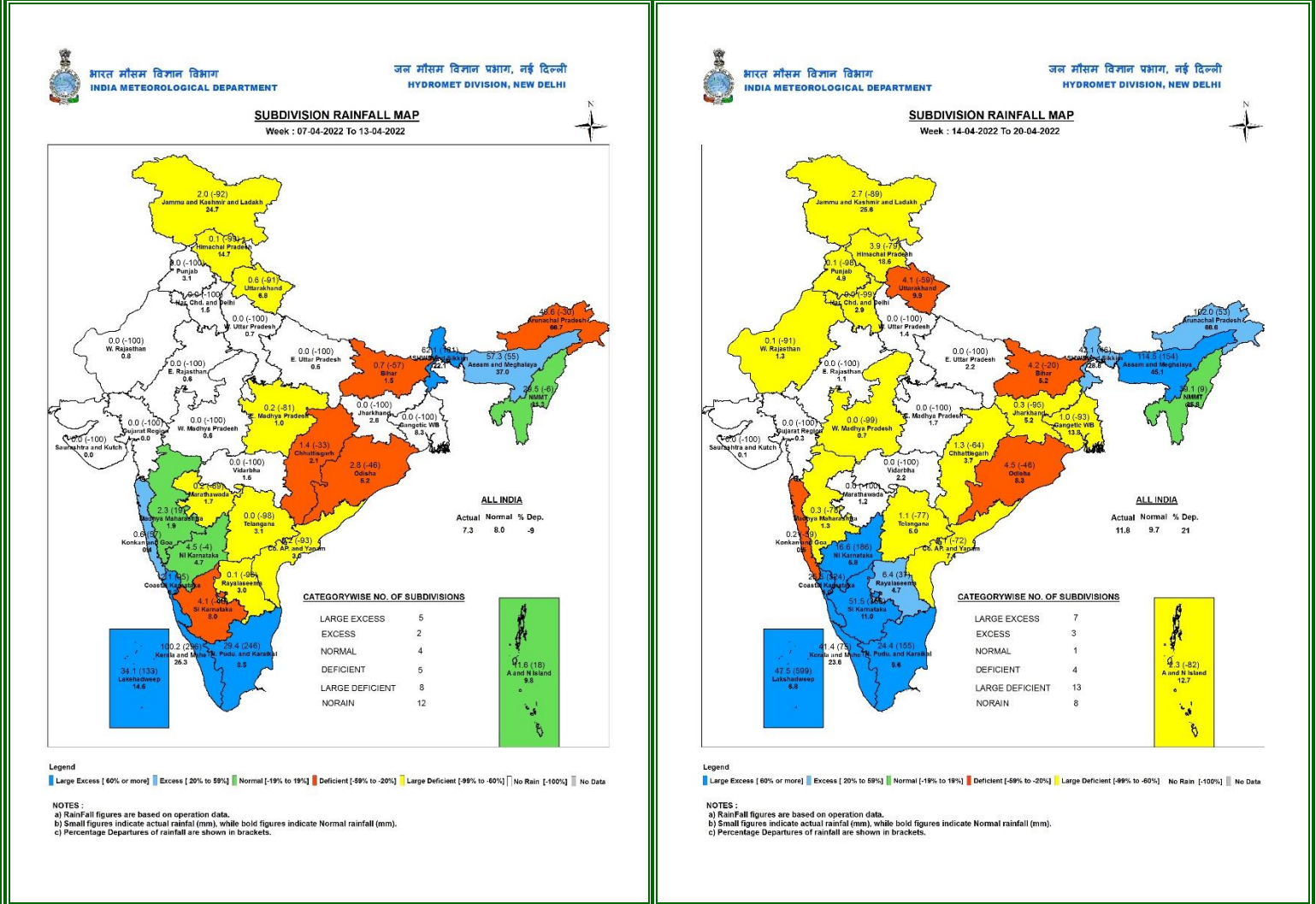
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**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA)
Indian Council of Agricultural Research (ICAR)
&
India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (7th to 20th April, 2022)



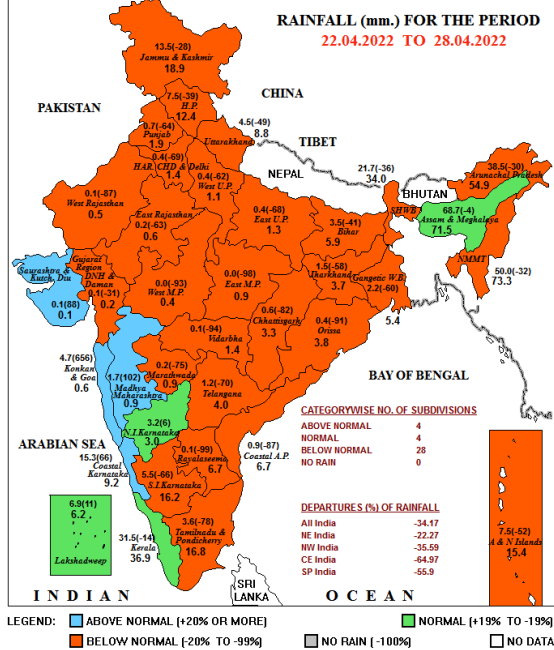
- Normal or above normal rainfall occurred in both the weeks in Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Sub-Himalayan West Bengal & Sikkim, Coastal Karnataka, North Interior Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Normal or above normal rainfall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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 20 April) (22nd April to 5th May, 2022)

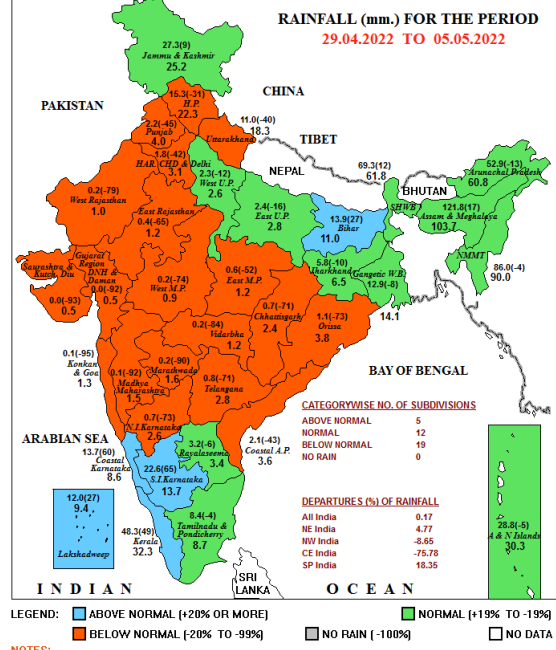
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Rainfall Forecast Map - Normal RF Based Categories



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Rainfall Forecast Map - Normal RF Based Categories



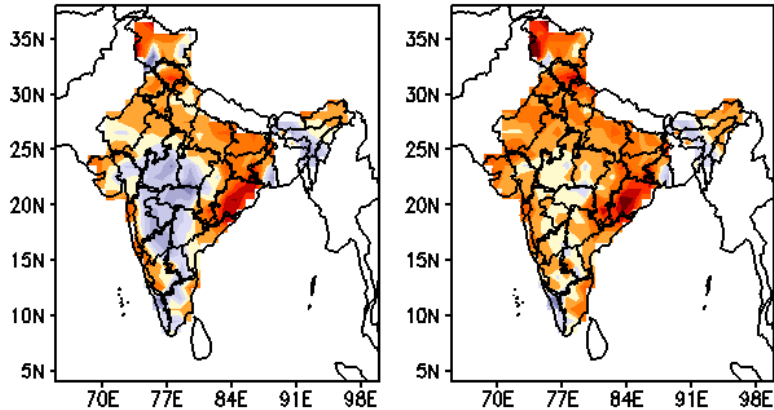
- **Week 1 (22.04.2022 to 28.04.2022) and Week 2 (29.04.2022 to 05.05.2022):** Extreme north India and the western Himalayan region will be under the influence of Western Disturbances. (ii) Under the influence of trough and cyclonic circulation over northeast India, thunderstorm associated rainfall will continue during the period. (iii) The southwest peninsula will remain active, associated with the cyclonic circulation in week 1 and week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 20 April)
(22nd April to 5th May, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 22Apr–28Apr)

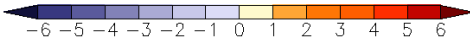
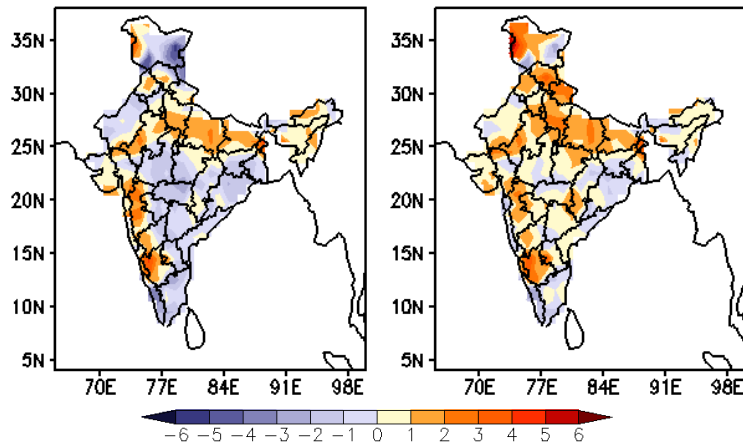
(Week2: 29Apr–05May)



MME forecast Tmin anomaly (Deg C)

(Week1: 22Apr–28Apr)

(Week2: 29Apr–05May)



Maximum Temperature (Tmax)

- **Week 1 (22.04.2022 to 28.04.2022) and Week 2 (29.04.2022 to 05.05.2022):** The eastern coastal states of India like (Odisha, Chhattisgarh and adjoining region) will be with higher positive Tmax anomalies in week 1 ($> 4^{\circ}\text{C}$), which will slightly increase in week 2. Week 2 will also have above normal Tmax over northern and northwest India.

Minimum Temperature (Tmin)

- **Week 1 (22.04.2022 to 28.04.2022) and Week 2 (29.04.2022 to 05.05.2022):** Central and east-central parts of India will have slight negative Tmin anomalies covering Odisha, Chhattisgarh during the period week 1. However, northern and northwestern, northeast India will have positive Tmin anomalies mainly during week 1 onwards during the period.

Strategic Agricultural Planning based on rainfall during the next two weeks till 05 May 2022

Agro-met Advisories

Kerala

The amount of rainfall received over Kerala is 207 mm (102% large excess) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) is above normal for week-1 and above normal for week-2.

- Due to heavy winds, lodging may occur in banana orchard. To prevent this, it is advised to provide staking for support to the banana plants.
- Flooding is reported in places due to heavy rainfall. It is advised to ensure proper drainage in the field.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 69 mm (43% excess) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) is below normal for week-1 and normal for week-2.

- Prevailing weather condition is favorable for Tristeza wilt in acid lime. To control, it is advised for the periodic spray of insecticide like Monocrotophos 0.05 % to reduce the secondary spread of the disease in the orchard.
- Under prevailing weather conditions, it is advised to provide adequate clean water and a balanced diet to the fowls to avoid heatstroke.

Maharashtra

Rainfall received over Madhya Maharashtra is 6 mm (-15% deficit); Marathwada is 1 mm (-89% large deficit); Konkan region is 4 mm (82% large excess) and no rainfall over Vidarbha was observed during 01 March - 21 April 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Konkan, Madhya Maharashtra is above normal and Marathwada and Vidarbha is below normal for week-1 and over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-2.

Vidarbha

- Under prevailing weather conditions, 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.
- Summer deep ploughing of harvested fields is advised to expose the hibernating insects, larvae/pupa to sun and predator birds.

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.

Hisar

The amount of rainfall received over Hisar is 0.2 mm (-99% large deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to harvest and thresh the matured mustard crop.
- Under prevailing hot weather conditions, farmers are advised to maintain a good amount of water in ponds to save fish from variable weather.

Uttar Pradesh

No rainfall was received during 01 March - 21 April 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and 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.

Eastern Uttar Pradesh

- Under prevailing weather conditions, to prevent premature fall of mango it is advised to spray Naphthalene acetic acid @ 20g/ litre of water.
- Due to increasing day temperature, farmers are advised to keep animals inside the shed and provide clean drinking water to avoid heatstroke.

Jammu

The amount of rainfall received over Jammu is 26 mm (-88% large deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Jammu is below normal for week-1 and normal for week-2.

- For the management of fruit fly in vegetable crops, it is advised to spray Malathion @ 1.5ml/litre of water during clear weather conditions.

Assam

The amount of rainfall received over Assam is 339 mm (74% large excess) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Assam is normal for week-1 and week-2.

- Prevailing weather condition is favorable for fruit rot or anthracnose disease in the chilli crop. To control, spraying of Glyodin is advised.
- For the management of blight disease in the green gram and black gram crops, it is advised to apply Carbendazim 0.05% @ 300-500 g in 600-700 litres of water at an interval of 12-15 days.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh is 6 mm (-77% large deficit) and over Rayalaseema 10 mm (-51% deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Coastal Andhra Pradesh and Rayalaseema is below normal for week-1 and; normal over Rayalaseema and above normal over Coastal Andhra Pradesh for 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.
- Present weather conditions are favorable for the incidence of hoppers and thrips in mango in Nellore, Guntur, Kurnool, Prakasam and Ananthapuramu districts. To control, farmers are advised to spray Imidacloprid @ 0.3 ml/litre of water.

Gujarat

No rainfall was received during 01 March - 21 April 2022 over Gujarat. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Gujarat is below normal for week-1 and week-2.

- For the management of sucking pest in green gram, spraying of Neem oil @ 50 ml or *Beauveria bassiana* @ 50 g in 15 litres of water is advised

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh is 9 mm (-94% large deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to complete harvesting/threshing of the mustard crop during clear sky conditions and also the harvesting of wheat can be done in the lower and mid hills of the state.

- Under prevailing weather conditions, farmers are advised for picking tea at 8-10 day intervals to maintain quality and product.

Madhya Pradesh

The amount of rainfall received over Madhya Pradesh is 0.9 mm (-94% large deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) over Madhya Pradesh is below normal for week-1 and; normal for week-2.

- As the day temperature is increasing, this may cause cracking in fruits. To avoid fruit cracking, farmers are advised to apply irrigation regularly at 4-5 days intervals.
- For the management of fruit borer/shoot borer in brinjal crop, it is advised to spray Quinalphos 25 EC at 1.5-2 ml/litre water or Spinosad 45% SC at 10 ml/ha.

Chhattisgarh

The amount of rainfall received over Chhattisgarh is 3.8 mm (-80% large deficit) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 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 2 mm (-97% large deficit) and Sub Himalayan West Bengal received 250 mm (93% large excess) during 01 March - 21 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (22 - 28 April 2022 and 29 April - 05 May 2022) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-1 and; normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- To prevent fruit drop 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.

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