



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 08 April - 21 April 2022

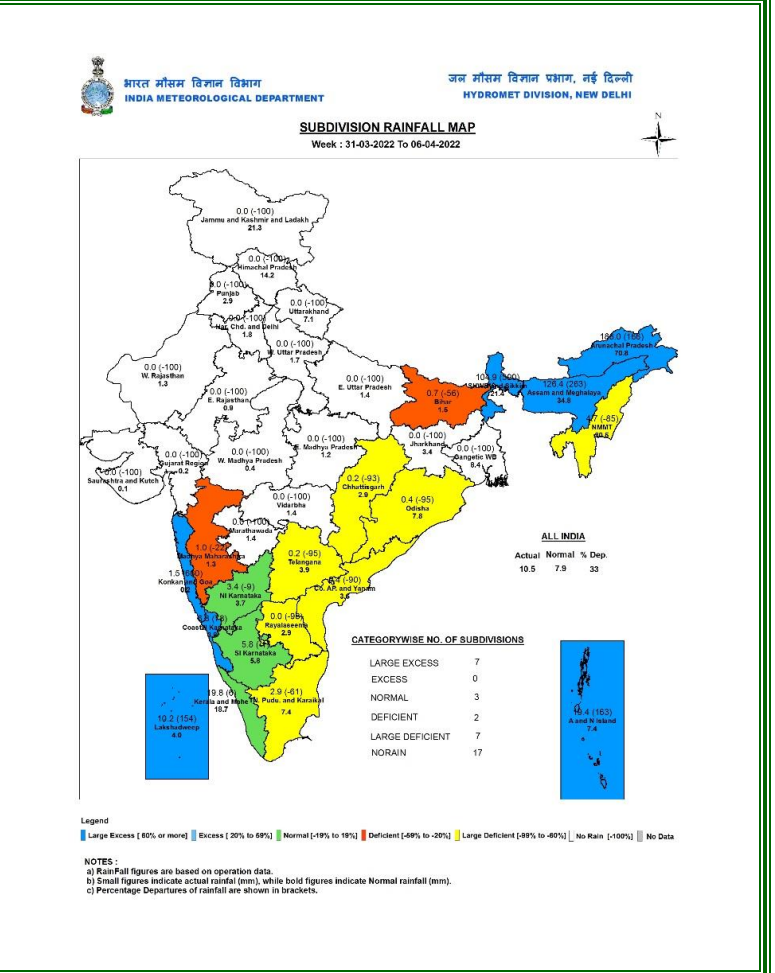
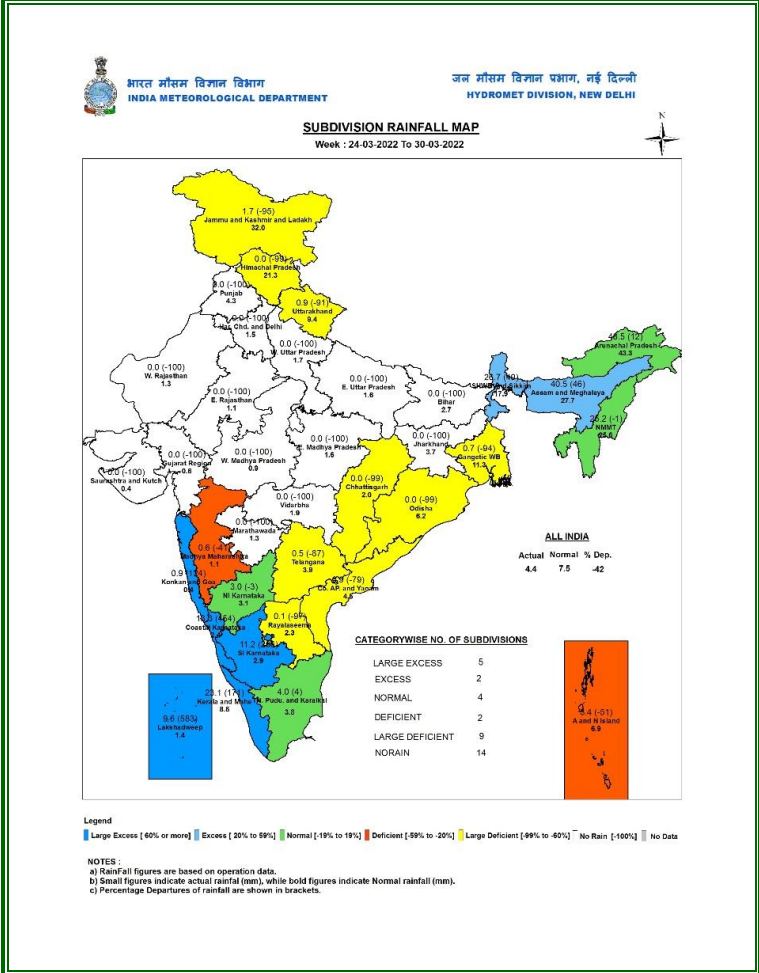
Date of issue: 08 April 2022

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 (24th March to 6th April, 2022)



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

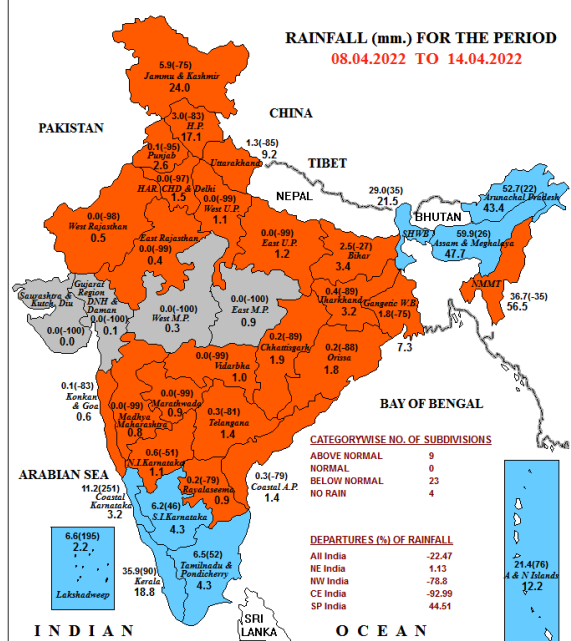
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 6 April)

(8th to 21st April, 2022)

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Rainfall Forecast Map - Normal RF Based Categories

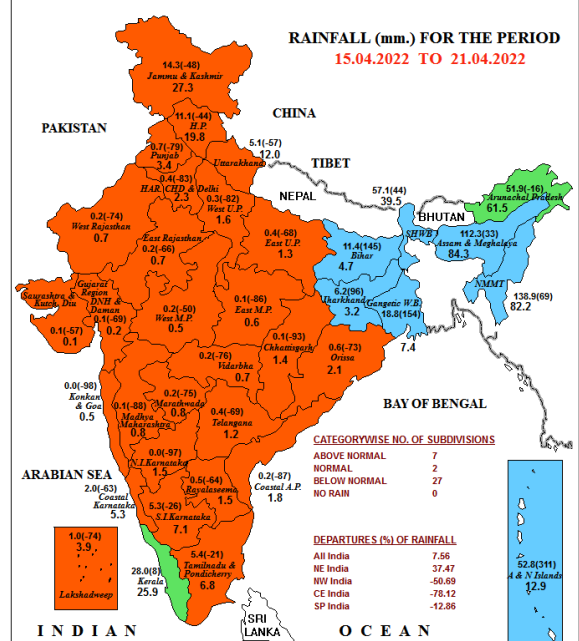


LEGEND: ■ ABOVE NORMAL (+20% OR MORE) ■ NORMAL (+19% TO -19%)
■ BELOW NORMAL (-20% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

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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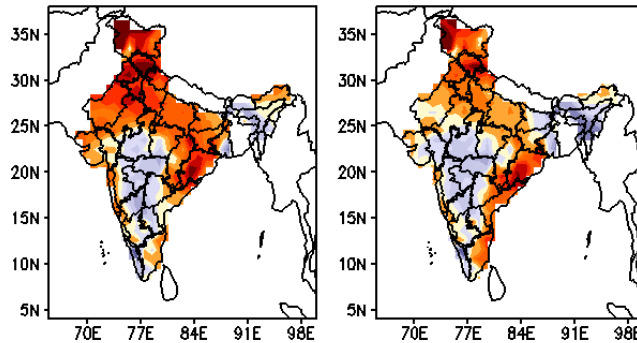
- **Week 1 (08.04.2022 to 14.04.2022):** Not much influence of Western Disturbance. Northeast India will be under the influence of rainfall associated with thunderstorms. Southwest Bay of Bengal and adjoining south peninsula and Sri Lanka will remain active, associated with the cyclonic system.
- **Week 2 (15.04.2022 to 21.04.2022):** Not much influence of Western Disturbance. Northeast India will get rainfall associated with thunderstorms. Southwest Bay of Bengal (mainly the eastern and central part) will remain active.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 6 April)
(8th to 21st April, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 08Apr-14Apr)

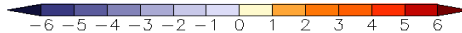
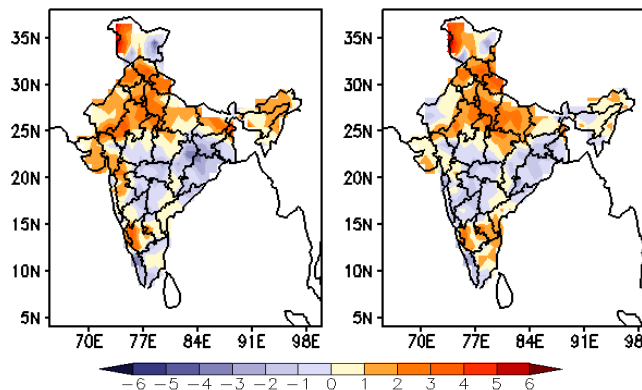
(Week2: 15Apr-21Apr)



MME forecast Tmin anomaly (Deg C)

(Week1: 08Apr-14Apr)

(Week2: 15Apr-21Apr)



Maximum Temperature (Tmax)

- **Week 1 (08.04.2022 to 14.04.2022) and Week 2 (15.04.2022 to 21.04.2022):** Slight below normal Tmax over parts of central India in week 1 and week 2, whereas above normal Tmax is likely over northwest India, western India, north India, north-eastern India and parts of eastern coastal states of India like (Odisha, Chhattisgarh and adjoining region).

Minimum Temperature (Tmin)

- **Week 1 (08.04.2022 to 14.04.2022) and Week 2 (15.04.2022 to 21.04.2022):** East central and south-eastern parts of India will have slight negative Tmin anomalies covering Odisha, Chhattisgarh during the period. However, northern and north-western, northeast India will have positive Tmin anomalies.

Strategic Agricultural Planning based on rainfall during the next two weeks till 21 April 2022

Agro-met Advisories

Kerala

The amount of rainfall received over Kerala is 79 mm (48% excess) during 01 - 07 April 2022. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) is above normal for week-1 and normal for week-2.

- As the hot weather conditions may increase the infestation of thrips, aphids, and whiteflies on the crops. To manage, it is advised to spray 2% neem oil garlic emulsion at the top and bottom of the leaves every two weeks.
- An increase in temperature results in the dropping of flowers in tomatoes. To reduce flower drops, mulching and watering of the tomato crop are advised.

Tamil Nadu

The amount of rainfall received over Tamil Nadu is 15 mm (-50% deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) is above normal for week-1 and below normal for week-2.

- Prevailing weather conditions are congenial for infestation of sucking insects viz., thrips, aphids and hoppers incidence in chilli. To control, it is advised for basal application of FYM @ 25 t/ha with 250 kg/ha of neem cake.
- Under prevailing weather conditions, it is advised to provide adequate clean water and balanced diet to the fowls to avoid heatstroke.

Maharashtra

Rainfall received over Madhya Maharashtra is 4 mm (normal rainfall); Marathwada is 1 mm (-87% large deficit); Konkan region is 4 mm (213% large excess) and no rainfall over Vidarbha was observed during 01 - 07 April 2022. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and week-2.

Vidarbha

- Under prevailing dry/hot weather conditions, need-based irrigation is advised in summer crops during the early morning or evening hours.
- Due to hot/dry weather conditions, spraying of antitranspirant (Kaolin 5%) is advised to reduce the leaf temperature and minimize water loss from the orchard trees.

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

- Under prevailing weather conditions, there is a possibility of incidence of aphids and hoppers on okra crop. If the 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 during clear weather.

Hisar

The amount of rainfall received over Hisar is 0.2 mm (-99% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers are advised to harvest the matured mustard crop.
- Under prevailing weather conditions, farmers were advised for sowing green gram with recommended varieties (var. *Muskan*, *Sattya*, *Basanti*, *MH 421*, *MH 318*) during this month.

Uttar Pradesh

No rainfall was received during 01 - 07 April 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over East Uttar Pradesh 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.
- Under prevailing dry weather conditions, farmers are advised to harvest pulse crops.

Eastern Uttar Pradesh

- Under prevailing dry weather and rising temperature, there is a chance of fruit borer attack in tomato crop. To manage, farmers are advised to spray Thiomexam 25 WG @ 0.25 g/litre of water.

Karnataka

Rainfall received during 01 - 07 April 2022 over South Interior Karnataka is 24 mm (36% excess) and 11 mm (-7% deficit) received over North Interior Karnataka. The extended range weather forecast (rainfall) for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over South Interior Karnataka is above normal and North Interior Karnataka is below normal for week-1 and below normal over South Interior Karnataka and North Interior Karnataka for week-2.

South Interior Karnataka

- To protect the pulse grains from storage pests, it is advised to apply oils of castor/linseed/honge/ neem oil @ 3-5 ml per kg of grains.
- Due to continuous dryspell in previous month months, termite attack is common in horticulture crops, forestry tree and shrubs. To control it is advised to apply Aldrin termiticide.

Jammu

The amount of rainfall received over Jammu is 18 mm (-90% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Jammu is below normal for week-1 and week-2.

- Due to prevailing dry weather conditions, irrigation is advised to the young fruit plants as per requirement.

Assam

The amount of rainfall received over Assam is 176 mm (58% excess) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Assam is above 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.
- Under prevailing weather conditions, summer vegetables may be attacked by fruit fly, aphid and black and red pumpkin beetle. For effective control, it is advised to apply Malathion 50 EC @ 2 ml per litre of water during clear weather conditions.

Gujarat

No rainfall was received over Gujarat during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the management of jassids and white fly in groundnut, it is advised to spray neem seed extract 5% and Diafenthiuron @ 15 g in 10 litres of water.

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh is 4 mm (-77% large deficit) and over Rayalaseema 3 mm (-72%% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 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.

- In Srikakulam, Vizianagaram, Kurnool, Nellore, East Godavari and Ananthapuramu districts, present weather conditions are favorable for the incidence of fall armyworm in maize. Based on the intensity of the pest incidence, spraying of Thiodicarb @ 2g or Emamectin benzoate @ 0.4 g/litre of water is recommended.

Chhattisgarh

The amount of rainfall received over Chhattisgarh is 1 mm (-91% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Chhattisgarh is below normal for week-1 and week-2.

- Under prevailing weather conditions, farmers can start the sowing of okra, ridge gourd, sponge guard, watermelon etc.
- Due to increased temperature, farmers are advised to provide irrigation in sugarcane crop as per need.

Punjab

The amount of rainfall received over Punjab is 0.4 mm (-99% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Punjab is below normal for week-1 and; week-2.

- As the weather will be dry during the coming days, farmers are advised to harvest the early sown wheat crop.
- Due to rise in temperature fruit drop is increasing fruit orchard. To reduce this, farmers are advised to continuously keep the soil moist by applying light and frequent irrigations.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh is 5 mm (-96% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 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 and productivity.
- Farmers are advised to prepare the nursery for summer vegetables like tomato (varieties like *Anshul*, *Abhimanyu*, *US-920*, *Palam Tomato Hybrid-1*), Brinjal, Capsicum (*Paladin*) and early crop of cucumber (*Cucumber varieties like 6125, Log Green*).

Madhya Pradesh

The amount of rainfall received over East Madhya Pradesh is 0.7 mm (-94% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Madhya Pradesh is no rain for week-1 and below normal for week-2.

- For the management of fruit borer in brinjal crop, it is advised to spray Quinalphos 25 EC at 1.5-2 ml/litre water.

Uttarakhand

The amount of rainfall received over Uttarakhand 2 mm (-96% large deficit) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) over Uttarakhand is below normal for week-1 and week-2.

- As dry weather conditions is prevailing, farmers are advised to apply light and frequent irrigation to the standing summer/spring crops during the evening or early morning hours.
- Under prevailing weather condition, it is advised for sowing of french bean, coriander, okra and transplanting of tomato, capsicum brinjal, cucumber, bitter gourd, round gourd, ridge gourd, summer squash etc.

West Bengal

The amount of rainfall received over Gangetic West Bengal is 0.7 mm (-98% large deficit) and Sub-Himalayan West Bengal received 160 mm (111% large excess) during 01 - 07 April 2022. The extended range weather forecast (rainfall) provided for the next two weeks (08 - 14 April 2022 and 15 - 21 April 2022) is below normal over Gangetic West Bengal and above normal over Sub-Himalayan West Bengal for week-1 and; above normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- To protect the crop against sucking pests in chilli, it is advised to spray Imidacloprid @10 ml/10 litres of water at 15 days interval.

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