



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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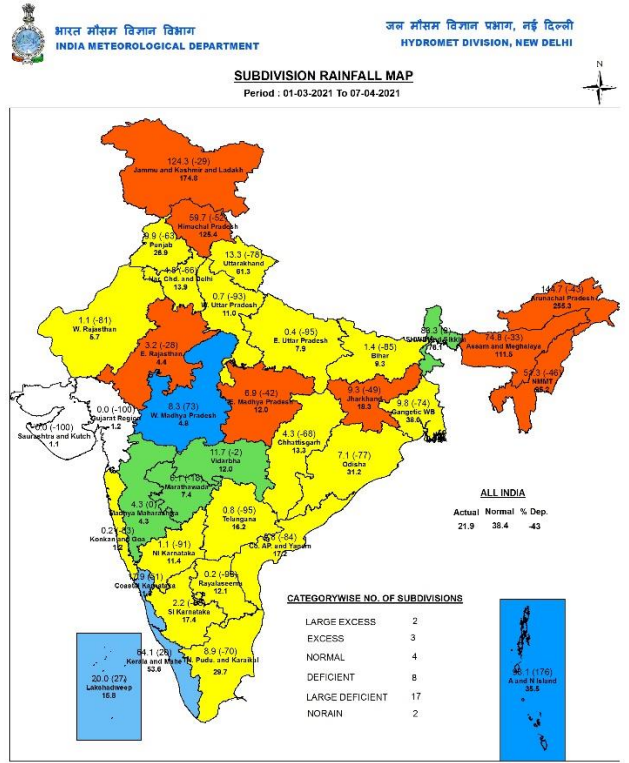
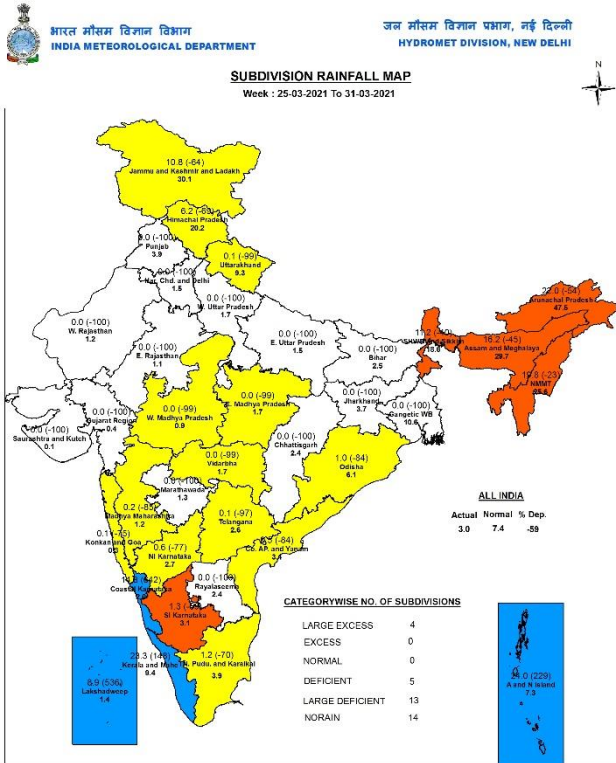
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

**India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

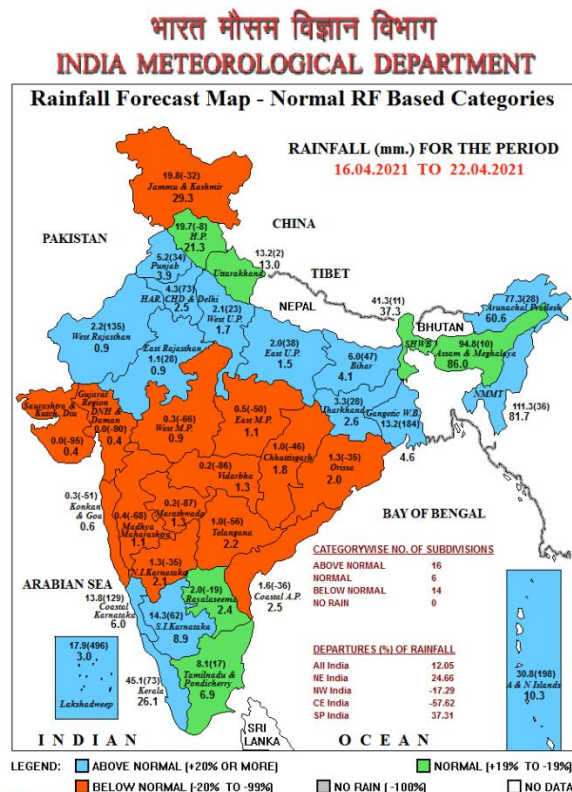
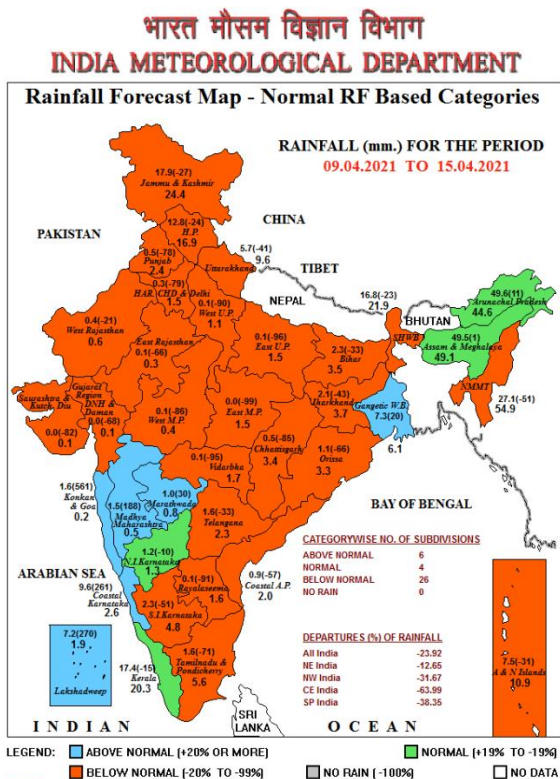
Realized Rainfall (25th March to 7th April, 2021)



- Normal or above normal rainfall occurred in both the weeks in Coastal Karnataka, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands
- Normal or above normal rainfall occurred in either of the two weeks in West Madhya Pradesh, Sub-Himalayan West Bengal & Sikkim, Madhya Maharashtra, Marathwada, Vidarbha.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecastmaps for the next 2 weeks (IC -07 April)
(9th to 22nd April, 2021)



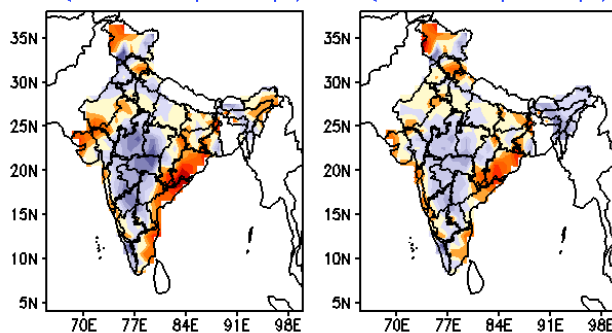
- **Week1 (09.04.2021 to 15.04.2021):** Some parts of the south peninsula (Coastal Kerala) and northeast region will likely get rainfall during the period. North eastern parts of India will get rainfall associated with thunderstorm activity
- **Week 2 (16.04.2021 to 22.04.2021):** North eastern parts of India will get rainfall associated with thunderstorm activity. Light rainfall will occur over NW India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 31 March)
(2nd to 15th April, 2021)**

MME forecast Tmax anomaly (Deg C)

(Week1: 02Apr–08Apr)

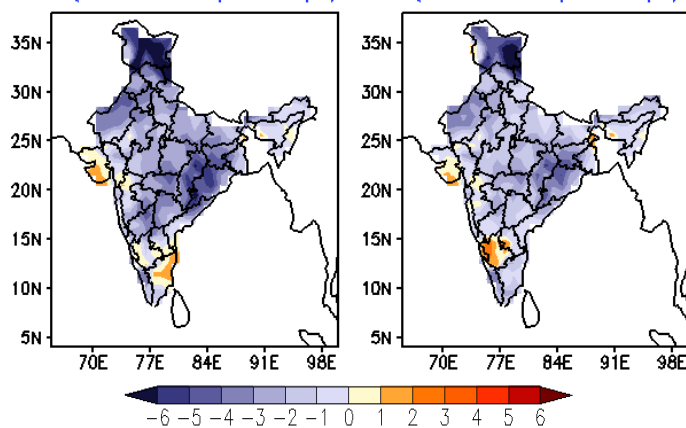
(Week2: 09Apr–15Apr)



MME forecast Tmin anomaly (Deg C)

(Week1: 02Apr–08Apr)

(Week2: 09Apr–15Apr)



-6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6

Maximum Temperature (Tmax)

- **Week 1 (02.04.2021 to 08.04.2021) and Week 2 (09.04.2021 to 15.04.2021):** Extreme north India, eastern coastal region, Bihar, east Uttar Pradesh and north eastern states Tmax will be above normal, whereas over the remaining parts it will be normal to slightly below normal.

Minimum Temperature (Tmin)

- **Week 1 (02.04.2021 to 08.04.2021) and Week 2 (09.04.2021 to 15.04.2021):** Warm anomalies over isolated regions of Northwest India and parts of the south peninsula in week 1 and week 2. However, over most of India Tmin will be lower than normal during week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 22 April 2021

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 69.7 mm (18% excess) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) is normal for week-1 and above normal for week-2.

- Due to increase in temperature, there is a chance of sucking pest incidence in vegetables. To control, it is advised to apply 2% Neem oil emulsion once in a week or spray *Lecanicillium lecanii* at 20 g per litre of water.
- Under prevailing weather conditions, there is a chance of Rhizome weevil attack in banana. As a precaution, it is advised to apply Neem cake @ 1 kg/plant at the time of planting.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 8.9 mm (-72% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) is below normal for week-1 and normal for week-2.

- Prevailing weather condition is favourable for thrip incidence in chilli. To control, it is advised to apply Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha.
- Prevailing weather is also favorable for blossom midge incidence in jasmine. It is advised to spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Flufenoxuron @ 1.5 g/litre.

Maharashtra

Rainfall received over Madhya Maharashtra is 4.3 mm (-10% deficit), Marathwada is 6.1 mm (-22% deficit), Vidarbha is 12.0 mm (-3% deficit) and Konkan region 0.2 mm (-83% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) over Konkan, Madhya Maharashtra and Marathawada is above normal and Vidharbha is below normal for week-1 and below normal over Konkan, Vidharbha, Madhya Maharashtra and Marathawada for week-2.

Marathwada

- Due to increase in temperature, there is a chance of water stress in summer groundnut crop. Farmers are advised for irrigation management as per requirement of crop during early morning or at evening.
- Due to high temperature and bright sunshine hours, the bunches of banana may turn black. To protect, it is advised to apply dried leaves on bunch as well as on fruits.

Vidharbha

- Under prevailing weather conditions, cultivation of summer vegetables like bitter gourd, tinda,

ridge gourd, smooth gourd, bottle gourd, cowpea, clusterbean, coriander is advised.

- For the management of tikka disease in groundnut, it is advised to spray Chlorothalonil 75% WP @ 20 g or Propiconazole 25% EC 10 ml or Tebuconazole 25.9% EC @ 10 ml per 10 litres of water.

Madhya Maharashtra

- To protect fruit crops from high temperature, it is advised to provide shades on fruit crops.
- Under prevailing high temperature, it is advised to protect milch animals by keeping them under the shed and provide green fodder and sufficient clean drinking water.

Konkan

- To protect the cashewnut tree from high temperature, it is advised to apply bordopaste to the base of stems.
- Under prevailing weather condition, it is advised to apply 100 litres / mango tree at weekly or 150 to 200 litres/tree at 15 days interval to minimize the pre-mature fruit drop of mango. It is also advised to use straw mulch.

Hisar

Amount of rainfall received over Hisar is 4.8 mm (-67% large deficit) during 01 March 2021 - 09 April 2021. The extended range rainfall forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) over Hisar is below normal for week-1 and above normal for week-2.

- Under prevailing weather, farmers are advised for sowing of green gram and black gram with certified seeds during the month of April.
- It is advised to keep the animals under shed and provide 50 g iodized salt and 50 - 100 g mineral mixture daily along with animal feed/fodder.

Karnataka

Rainfall received during 01 March 2021 - 09 April 2021 over South Interior Karnataka is 2.5 mm (-87% large deficit) and North Interior Karnataka is 1.2 mm (-90% large deficit). The extended range weather forecast (rainfall) for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) over South Interior Karnataka is below normal and North Interior Karnataka is normal for week-1 and above normal over South Interior Karnataka and below normal over North Interior Karnataka week-2.

South Interior Karnataka

- For the management of leaf hopper incidence in mango orchard, it is advised to spray Carbaryl, 50WP @ 4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water.
- Under prevailing weather condition, it is advised to provide proper ventilation for free

circulation of air in the animal sheds. Also arrange to provide clean drinking water for the animals.

Uttar Pradesh

Rainfall received during 01 March 2021 - 09 April 2021 over East Uttar Pradesh 0.5 mm (-94% large deficit) and West Uttar Pradesh is 0.7 mm (-93% large deficit). The extended range weather forecast (rainfall) for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal for week-2.

Western Uttar Pradesh

- Due to the chances of hot and dry weather condition, farmers are advised for harvesting and threshing of all pulse crops.
- Farmers are advised to prepare their fields for the sowing of *zaid* urd, mung bean, maize and sunflower.

Eastern Uttar Pradesh

- Intercultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

Jammu

Amount of rainfall received over Jammu is 124.3 mm (-32% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Jammu is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to go for sowing of okra with recommended varieties viz., Jammu okra 05, Arka anamika.
- Under prevailing weather condition, sowing of summer vegetables and transplanting of tomato, brinjal and chillies from nursery to field is advised.

West Bengal

Amount of rainfall received over West Bengal is 10.9 mm (-73% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over West Bengal is above normal for week-1 and week-2.

- For the management of Yellow Vein Mosaic Virus (YVMV) in Okra crop, it is advised to apply Neem oil (10000 ppm) @ 20 ml/10 litres at dawn or use yellow sticky trap.
- To control the fruit drop in mango, it is advised to spray Borax @ 2g per litre of water or Planofix @ 2ml per 5 litre of water.

Odisha

Amount of rainfall received over Odisha is 10.4 mm (-68% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Odisha is below normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of purple blotch and stemphylium blight disease in onion crop. To manage, it is advised to spray Mancozeb 75% WP @ 600 g/acre or Difenconazole 25% EC @ 200ml/acre by mixing in 200 litres of water at 15 days interval.
- For the management of sucking pest in Okra, it is advised to spray Neem Oil 1500 ppm @ 600 ml/acre by mixing it in 200 litres of water.

Assam

Amount of rainfall received over Assam is 80.7 mm (-34% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Assam is normal for week-1 and week-2.

- Due to favourable weather condition, fruit rot or Anthracnose disease may be observed in the chilli crop. To manage, spraying of Glyodin or Maneb pesticide solutions in the recommended dose is advised.
- Under prevailing weather condition, farmers may continue transplanting of ahu rice seedlings in main field under assured irrigation.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 60.4 mm (-54% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Under the prevailing weather condition, there is a chance of thrips attack in onion. To control, spraying of Imidacloprid @ 0.5 ml per litre of water with sticky material (Tipol 1.0 g/litre) under clear sky conditions is advised.
- Maintain room temperature of 25-28 °C and relative humidity of 80-85 % for successful growing of mushrooms.
- For the management of downy mildew in garlic, it is advised to spray Diathane M 45 @ 2.5 g or Bavistine 1 g per litre.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 7.0 mm (-43% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Madhya Pradesh is below normal for week-1 and

week-2.

- Due to hot and dry weather conditions, soil and residual mulching is advised to avoid evaporation losses in the fields.
- Under prevailing hot weather condition, it is advised to spray water on the sheds of poultry and dairy houses to reduce temperature of that area.

Gujarat

Amount of rainfall received over Gujarat is 0.0 mm (-100% no rainfall) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Gujarat is below normal for week-1 and week-2.

- For the management of sucking pest in summer greengram, it is advised to spray 10 ml Dimethoate or Methyl-O-Demeton in 10 litres water.
- For the control of shoot and fruit borer in brinjal and tomato crops, it is advised to spray Chlorantraniliprole 18.5% SC 3.0 ml or DDVP @ 7 ml/10 litres of water.

Jharkhand

Amount of rainfall received over Jharkhand is 10.8 mm (-44% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Jharkhand is below normal for week-1 and above normal for week-2.

- Due to high day temperature there is chances of heat stroke attack in cattle. Therefore, farmers are advised to provide plenty of drinking water to animals and do not allow them to remain in sunlight during intense heat especially during noon.
- Under prevailing weather condition, there may be dropping of tiny litchi fruits. To protect, it is advised to spray Planofix @ 5 ml per 10 litres of water.

Punjab

Amount of rainfall received over Punjab is 9.9 mm (-64% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Punjab is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised for harvesting of early sown wheat crop and go for threshing of mustard crop.
- Because of rising temperature, it is advised to apply light and frequent irrigations to fruit bearing as well as newly planted fruit plants.

Uttarakhand

Amount of rainfall received over Uttarakhand is 14.3 mm (-78% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing weather conditions, transplanting of chili, tomato, capsicum and brinjal seedlings in the main field is advised.

Rajasthan

Amount of rainfall received over Rajasthan is 3.2 mm (-32% deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Rajasthan is below normal for week-1 and above normal for week-2.

- Due to increase in temperature, farmers are advised to irrigate standing vegetables crops.
- To control shoot and fruit borer in brinjal crop, spray Spinosad 48 EC @ 1 ml /4 litres of water.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 4.8 mm (-66% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Chhattisgarh is below normal for week-1 and week-2.

- For the management of stem borer in summer paddy, farmers are advised to install pheromone traps and light trap nearby the field for the control of stem borer.
- Due to rise in maximum temperature, farmers are advised to cover animal and poultry sheds with gunny bags and maintain proper ventilation so that shed temperature is maintained as normal.

Bihar

Amount of rainfall received over Bihar is 1.7 mm (-82% large deficit) during 01 March 2021 - 09 April 2021. The extended range weather forecast (rainfall) provided for next two weeks (09 - 15 April 2021 and 16 - 22 April 2021) on rainfall over Bihar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, sowing of greengram and blackgram is advised. Recommended varieties (north Bihar) for mung bean are Pusa Vishal, Samrat, SML-668, HUM-

16. Varieties for black gram are Sona and Pant Urd-19 and Pant Urd-31, Uttra and Navin.

- Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables. To control, dusting of Chlorpyrifos 2% dust @ 20 kg/ha near root of the plant is advised.

Disclaimer:

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