



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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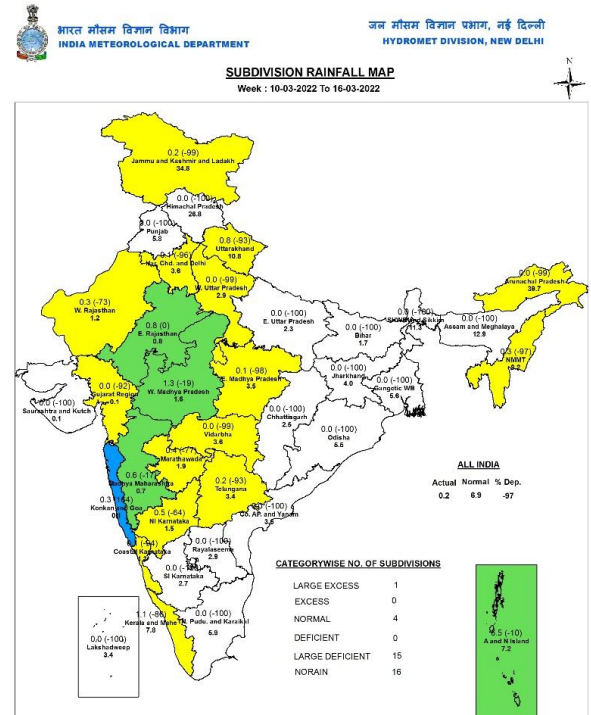
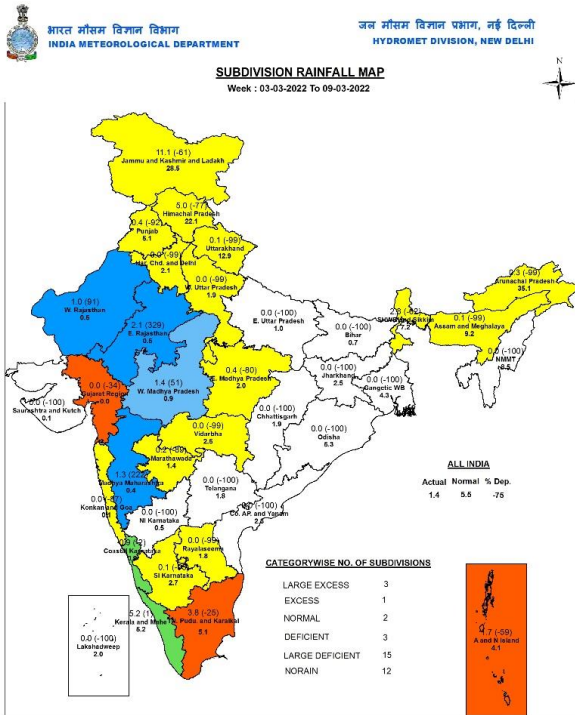
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

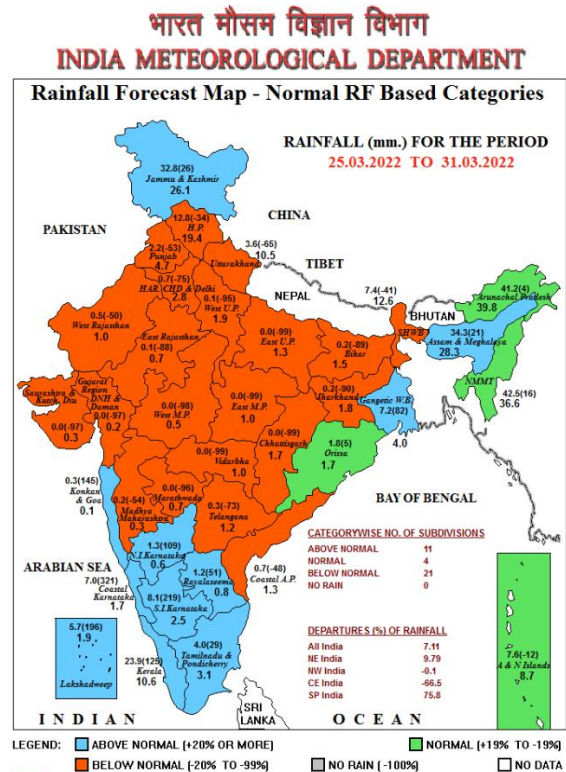
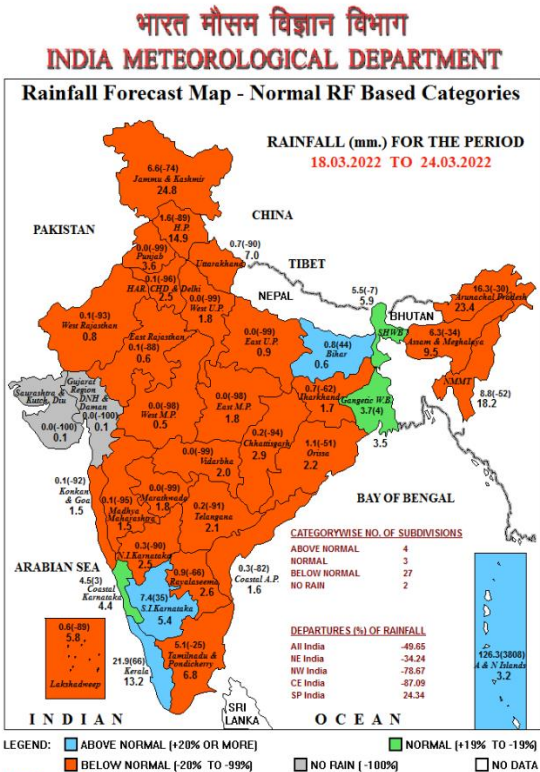
Realized Rainfall (3rd to 16th March, 2022)



- Normal or above normal rainfall occurred in both the weeks in East Rajasthan, West Madhya Pradesh and Madhya Maharashtra
- Normal or above normal rainfall occurred in either of the two weeks in West Rajasthan, Konkan & Goa, Coastal Karnataka, Kerala & Mahe and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

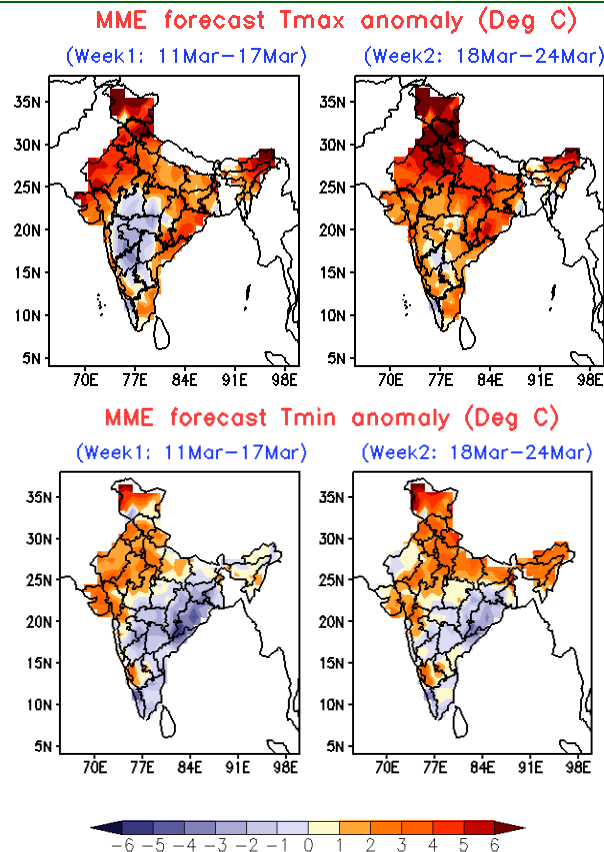
Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 16 March) (18th to 31st March, 2022)



- **Week 1 (18.03.2022 to 24.03.2022):** Presence of cyclonic system over the central and eastern parts of Bay of Bengal associated with the system. Also, the isolated region over the south peninsula will get rainfall in week 1.
- **Week 2 (25.03.2022 to 31.03.2022):** Western Disturbance will have an impact over north India in week 2. Northeast India and parts of the south peninsula will get rainfall during week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 09 March)
(11th to 24th March, 2022)**



Maximum Temperature (Tmax)

- **Week 1 (11.03.2022 to 17.03.2022):** Slight below normal Tmax likely over parts of central India in week 1, whereas, above normal Tmax is likely over northwest India, northeastern India and parts of eastern coastal states of India (Odisha, Chhattisgarh and adjoining region).
- **Week 2 (18.03.2022 to 24.03.2022):** Tmax is expected to increase in week 2 onwards with higher positive anomaly over northwest India, northeastern India and parts of eastern coastal states of India like (Odisha, Chhattisgarh and adjoining region). Most of the remaining parts of India also likely to be with positive Tmax anomalies.

Minimum Temperature (Tmin)

- **Week 1 (11.03.2022 to 17.03.2022) and Week 2 (18.03.2022 to 24.03.2022):** East central and south eastern parts of India will have negative Tmin anomalies with a slightly larger negative anomaly expected over east central parts of India covering Odisha, Chhattisgarh adjoining region in week-1 and week-2. However, northern and north western, northeast India will have positive Tmin anomalies during week 1 and week 2.

Strategic Agricultural Planning based on rainfall during next two weeks till 31 March 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 11 mm (-31% deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) is above normal for week-1 and week-2.

- Due to increase in atmospheric temperature, the attack of sucking pest increased 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.
- An increase in temperature results in the dropping of flowers in tomatoes. To reduce flower drop, mulching and watering of the tomato crop is advised.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 4 mm (-69% deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) is below normal for week-1 and above normal for week-2.

- Prevailing weather conditions are congenial for 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 condition, it is advised to provide adequate clean water and light to the fowls to avoid heat stroke.

Maharashtra

Rainfall received over Madhya Maharashtra is 2 mm (59% large excess); Marathwada is 1 mm (-77% large deficit); Konkan region is 0.3 mm (-8 deficit) and no rainfall over Vidarbha was observed during 01 - 18 March 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; over Konkan is above normal and Madhya Maharashtra, Vidarbha and Marathwada is below normal rainfall for week-2.

Vidarbha

- Due to rise in temperature and decrease in humidity, it is advised to provide shade/thatches to individual young/new fruit plantation.
- Due to dry weather condition, need based irrigation in summer groundnut, sunflower, sesame green gram and vegetables is advised during early morning or evening hours.

Madhya Maharashtra

- For the control of thrips and powdery mildew in mango, it is advised to spray Imidacloprid @ 1 ml + wettable sulphur @ 2 g per litre of water.

- For the management of leaf curl in chilli, spraying of Dimethoate @15 to 20 ml per litre of water is advised.

Konkan

- Due to rise in maximum temperature, there is possibility of pod splitting in matured pulses. To avoid splitting, harvesting of matured pulses during morning hours is advised.
- Because of prevailing of heat wave, it is advised to provide irrigation to coconut orchard, use straw mulches to reduce evaporation losses and also provide shed to newly planted coconut orchard.

Hisar

Amount of rainfall received over Hisar is 0.2 mm (-98% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to keep vigilance on insect/pests in sugarcane and apply need-based irrigation to the crop.
- Under prevailing weather condition, farmers also advised to harvest mature mustard crop as soon as possible.

Uttar Pradesh

No rainfall was received during 01 - 18 March 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for next two weeks (18 - 24 March 2022 and 25 - 31 March 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 moisture in their standing crops and pick up mature fruits in standing crops.
- Under prevailing weather condition, sowing of *Zaid* maize is advised. Recommended composite varieties are *Novjoti*, *Pusa-2*, *Sweta* and *Azad uttam* and hybrid varieties viz., *Hybrid Dakan-107*, *Malviya hybrid-2*, *JH-3459*, *Prakash*, *PSM-5*, *Pro-303*, *KH-510*, *MMH-113*, *Azad hybrid-1*, *Azad hybrid-2*, *DKC-9108*, *DKC-7074*.

Jammu

Amount of rainfall received over Jammu is 13 mm (-84% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Jammu is below normal for week-1 and above normal for week-2.

- To control red pumpkin beetle in cucurbits, it is advised to incorporate Phorate granules @ 10G in the pits during transplanting and under direct sowing, incorporate granules in soil.

Assam

Amount of rainfall received over Assam is 0.7 mm (-98% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Assam is below normal for week-1 and above normal for week-2.

- For the management of fruit rot or anthracnose disease in chilli, it is advised to spray Chlorothalonil @ 2g or Azoxystrobin @ 1 ml per litre of water.
- Under prevailing weather condition, farmers are advised to start the land preparation for banana cultivation from this week. Recommended dwarf banana varieties like Jahaji, medium tall varieties like Chenichampa, Malbhog, Barjahaji and tall varieties like Purakol, Monohar, Bhimkol.

Odisha

Amount of rainfall received over Odisha is 0.6 mm (-95% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Odisha is below rainfall for week-1 and normal for week-2.

- Due to rise in atmospheric temperature, there are chances of infestation of thrips and aphids in groundnut crop. To manage, it is advised to spray Neem based pesticide (Azadirachtin) 300 ppm @ 1 litre /acre during primary stage of infestation.
- To overcome the heat wave condition, farmers are advised to increase the frequency of irrigation in vegetables.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 5 mm (-92% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to go for picking in tea at 8-10 days interval to maintain the quality and productivity.
- Under prevailing weather condition, transplanting of cucumber and capsicum can be done in the polyhouses of the lower areas of the state.

West Bengal

No rainfall was received during 01 - 18 March 2022 over Gangetic West Bengal and Sub-Himalayan West Bengal received 4 mm (-84% large deficit). The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) is normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-1 and; above normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal for week-2.

- For the management of white fly in tomato, it is advised to spray Imidacloprid 17.8 SL @ 0.8

ml/litre of water or Acetamiprid 1 ml/litre of water.

Punjab

Amount of rainfall received over Punjab is 0.4 mm (-97% large deficit) during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Punjab is below normal for week-1 and week-2.

- To reduce the harmful effects of prevailing high temperatures, farmers are advised to apply light irrigation to the wheat crop or spray salicylic acid @ 15 g in 450 ml of ethyl alcohol using 200 litres of water per acre at early milking stage.
- Under prevailing weather condition, sowing of cucurbits like muskmelon, cucumber, bottle gourd, pumpkin, sponge gourd, squashes etc. can be done in field.

Gujarat

No rainfall was received over Gujarat is during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- Because of possibility of heat wave condition, farmers are advised for light irrigation in standing crops and vegetables.
- For control of thrips and jassid in groundnut, it is advised to spray Neem seed extract 5% and Profenofos 20 ml and Acephate 15 g in 10 litres of water.

Andhra Pradesh

No rainfall was received over Coastal Andhra Pradesh and Rayalaseema during 01 - 18 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 March 2022 and 25 - 31 March 2022) over Coastal Andhra Pradesh and Rayalaseema is below normal for week-1 and; below normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week-2.

- In Srikakulam, Vizianagaram, Chittoor, Kadapa and Guntur districts, present weather conditions are favorable for powdery mildew disease incidence in black gram. To control the disease, spraying of Hexaconazole @ 2 ml or Propiconazole @ 1 ml/litre of water is recommended.
- Present weather conditions are favorable for incidence of hoppers in mango in Nellore, Guntur, Kurnool, Prakasam and Ananthapuramu districts. To control the hoppers incidence, spraying of Dimethoate @ 2 ml or Chlorpyrifos @ 2.5 ml/litre of water is recommended.

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