



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

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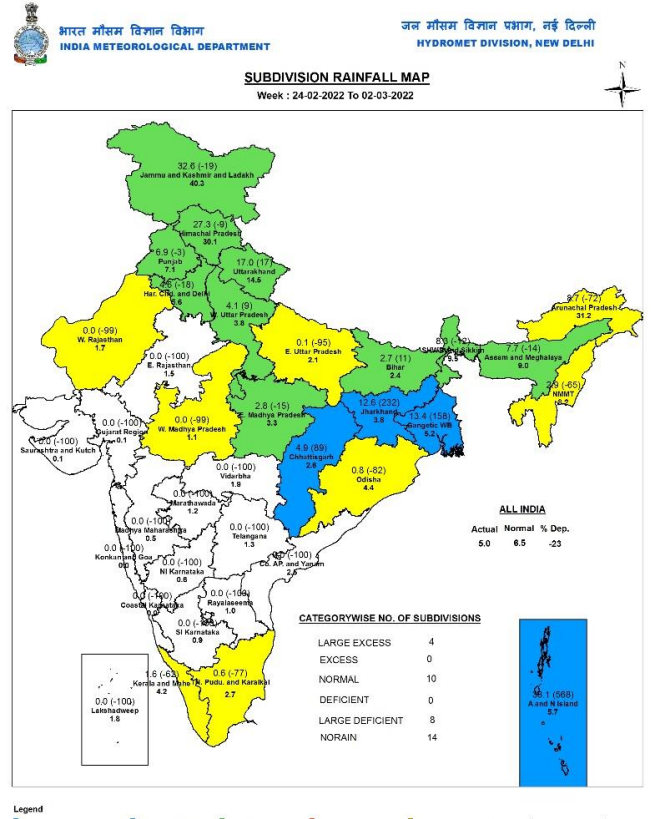
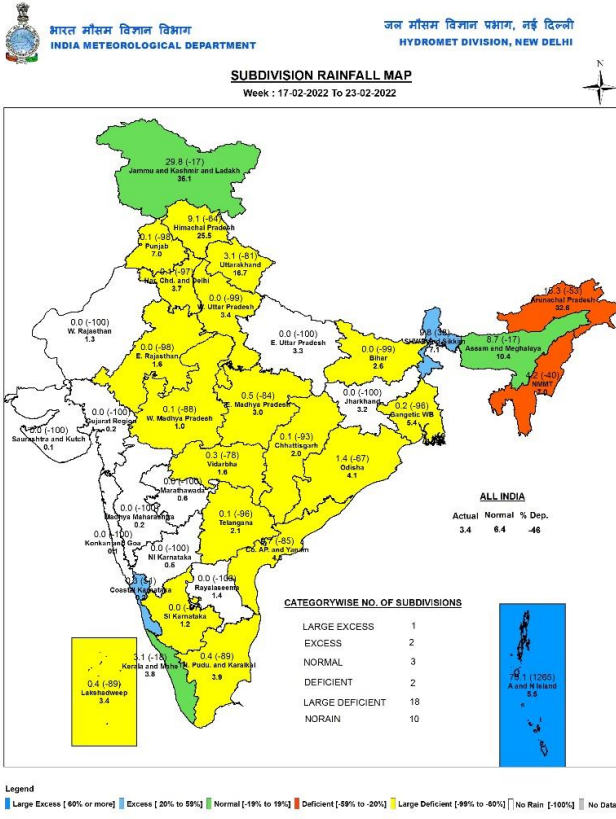
**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
Indian Council of Agricultural Research (ICAR)**

&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

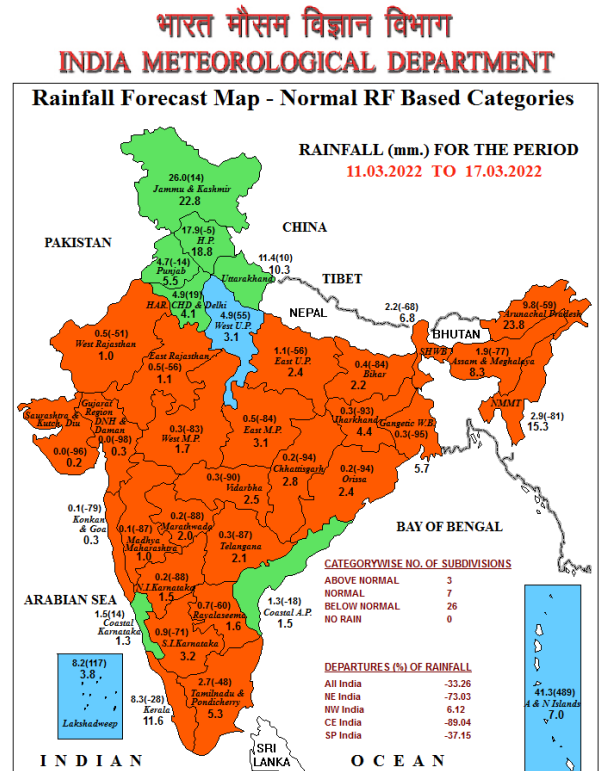
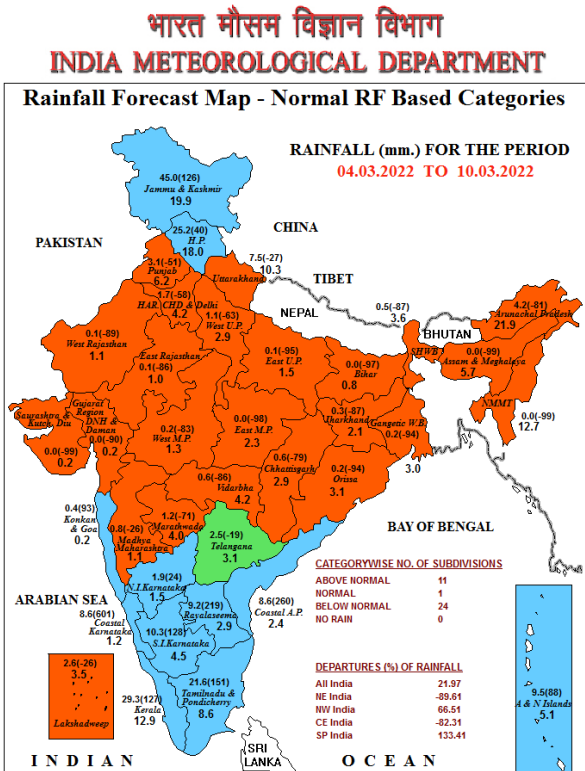
Realized Rainfall (17th February to 2nd March, 2022)



- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Uttarakhand, West Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, Gangetic West Bengal, Bihar, Jharkhand, East Madhya Pradesh, Chhattisgarh, Coastal Karnataka and Kerala & Mahe.
- 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 – 02 March) (4th to 17th March, 2022)



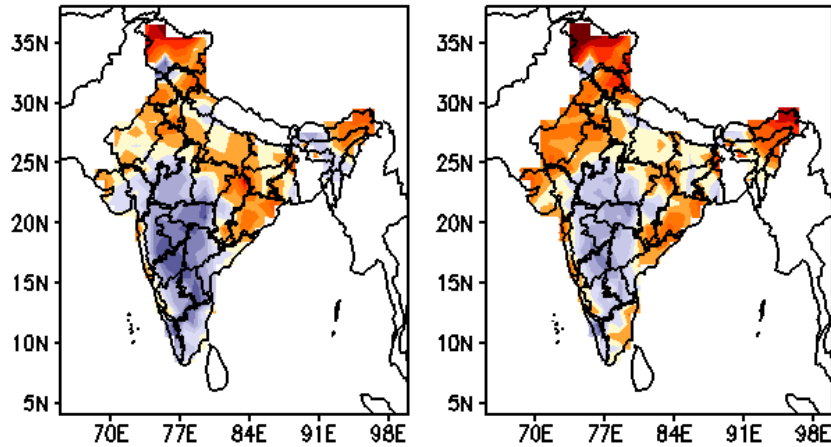
- **Week 1 (04.03.2022 to 10.03.2022) and Week 2 (11.03.2022 to 17.03.2022):** (i) Western Disturbance will have an impact over north India in week 1 and also in week 2. (ii) Presence of cyclonic system over the eastern coastal region of Tamil Nadu, Sri Lanka and Neighbourhood in week 1. The southern part of Bay of Bengal will remain active in week 2 also.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 02 March)
(4th to 17th March, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 04Mar–10Mar)

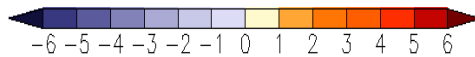
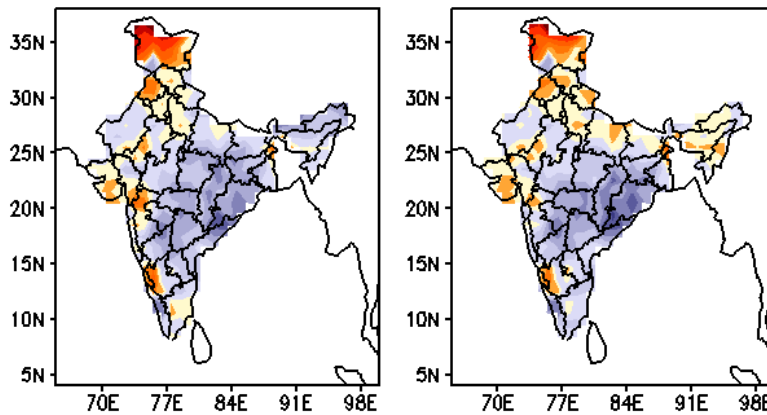
(Week2: 11Mar–17Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 04Mar–10Mar)

(Week2: 11Mar–17Mar)



Maximum Temperature (Tmax)

- **Week 1 (04.03.2022 to 10.03.2022) and Week 2 (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, north eastern India and parts of eastern coastal states of India (Odisha, Chhattisgarh and adjoining region).

Minimum Temperature (Tmin)

- **Week 1 (04.03.2022 to 10.03.2022) and Week 2 (11.03.2022 to 17.03.2022):** More 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 during the period. However, parts of northern India will have positive Tmin anomalies.

Strategic Agricultural Planning based on rainfall during next two weeks till 17 March 2022

Agro-met Advisories

Kerala

No rainfall was received over Kerala during 01 - 04 March 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) is above normal for week-1 and below normal for week-2.

- Since dry weather condition is prevailing due to increase in temperature, it is advised to irrigate to coconut and arecanut @ 40 to 50 litres water for a coconut palm and 25 litres water for an areca palm. It is also advised to bury fresh or dried coconut husk around the coconut palm to conserve soil moisture.
- For the management of blast disease in rice, it is advised to spray 4 g of Nativo (Trifloxystrobin + Tebuconazole) mixture in 10 litres of water.

Tamil Nadu

No rainfall was received over Tamil Nadu during 01 - 04 March 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) is above normal for week-1 and below 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

No rainfall was received over Madhya Maharashtra, Marathwada, Vidarbha and Konkan region during 01 - 04 March 2022. The extended range weather forecast (rainfall) for next two weeks (04 - 10 March 2022 and 11 - 17 March 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

- With assured irrigation facility, sowing of summer green gram (var. *Pusa Vaishakhi*, PKV-AKM-4 (Vaibhav)) can be continued till 15 March.

Madhya Maharashtra

- For the control of thrips and powdery mildew in mango, it is advised for spraying of Imidacloprid @ 1 ml + wettable sulphur @ 2 g per litre of water.
- Under prevailing weather condition, harvesting of sorghum is advised after proper drying of leaves and maintain moisture content in grain about 15%.

Konkan

- Due to forecast for gradual rise in temperature, it is advised to provide irrigation to water melon crops at 3-4 days interval regularly and on alternate day in drip irrigation.
- To avoid splitting of matured pods in cowpea, mung, chickpea crops, it is advised to carryout harvesting of matured pulses during morning hours.

Marathwada

- For management of fall armyworm in fodder maize crop, it is advised to remove infected plant parts and destroy them properly and take a spray of 5% NSKE.

Hisar

No rainfall was received over Hisar during 01 - 04 March 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Hisar is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers are advised to keep on vigilance for insect/pests in sugarcane crop and apply need-based irrigation to the crop.
- Due to fall in night temperature, high winds and cloudy conditions, it is advised to keep the animals under shed and provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.

Uttar Pradesh

No rainfall was received during 01 - 04 March 2022 over East Uttar Pradesh and West Uttar Pradesh. The extended range weather forecast (rainfall) for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and below normal over East Uttar Pradesh and above normal over West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the dry weather condition, farmers are advised to maintained 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*.

Eastern Uttar Pradesh

- Due to rise in temperature, farmers are advised to prepare the field for early sowing of lady finger with recommended varieties like *A-4*, *Parbani kranti*, *Arka Anamika*, *Narendra*

perennial-1, P-7 etc.

- For the management of semi looper in chickpea/pea/lentil, it is advised to spray *Bacillus thuringiensis*, or Azadirachtin 0.03 % EC 2.5 to 5 litres in 500 to 600 litres of water.

Jammu

Amount of rainfall received over Jammu is 7.7 mm (-55% deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Jammu is above normal for week-1 and normal for week-2.

- Prevailing temperature and relative humidity are favorable for white rust and *Alternaria blight* in mustard crop. To manage, it is advised to spray Mancozeb @ 0.25%.
- Under prevailing weather condition, farmers are advised for transplanting of cucurbits from nursery to main field.

Assam

Amount of rainfall received over Assam is 0.6 mm (-89% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Assam is below normal for week-1 and week-2.

- Present weather condition is congenial for sowing the seeds of transplanted ahu rice in nursery bed. Recommended varieties for transplanted upland rice (ahu) like *Luit, Kapilee, Govind, Jaya, IR-50*, etc.
- Prevailing weather condition is ideal time (mid-February to March) for sowing of summer green gram & black gram. Recommended varieties of green gram are *Pratap, AAU-34, AAU-39, Kopergaon, SGC 16, SGC 20* and *IPM-02* and black gram varieties are *Pant-U-19, T-9, PU-31, KU 301, SBC 40* and *SBC 47*.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 0.5 mm (-71% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Chhattisgarh is below normal for week-1 and week-2.

- Due to increase in temperature and in evaporation rate, it is advised to irrigate summer vegetable crops.
- Looking into the present weather conditions, there is a chance of aphid infestation in vegetable crops. Therefore, farmers are advised for continuous monitoring and spray neem-based pesticides when initial outbreak is seen.

Madhya Pradesh

Amount of rainfall received over East Madhya Pradesh is 0.5 mm (-67% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10

March 2022 and 11 - 17 March 2022) over East Madhya Pradesh is below normal for week-1 and week-2.

- For the management of pod borer in chickpea crop, it is advised to spray of Profenofos @ 1.5 ml/litre of water.

Gujarat

No rainfall was received over Gujarat during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Gujarat is below normal for week-1 and week-2.

- For control of thrips and jassid in summer groundnut, it is advised to spray neem seed extract @ 5% and Profenofos 20 ml and Acephate 15 g in 10 litres of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 4.6 mm (-64% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- With the increase in temperature, the farmers of lower hill areas are advised to go for the sowing of lady finger and French bean. The recommended varieties of lady finger are *Palam Komal*, *P-8*, *Arka Anamika* and *Varsha Uphar* and of French bean are *Contender*, *Premier*, *Palam Mridula*, *Phalguni* and *Arka Komal*.
- Prevailing weather is congenial for the development of yellow rust in wheat. To manage, it is advised to spray Tilt (Propiconazole 25 EC) @ 1 ml/litre of water or Bayleton (Triadimefon) @ 1 ml/litre and repeat the spray at 15 days interval.

West Bengal

No rainfall was received during 01 - 04 March 2022 over Gangetic West Bengal and Sub-Himalayan West Bengal received 4.2 mm (8% excess). The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Gangetic West Bengal and Sub-Himalayan West Bengal is below normal for week-1 and; week-2.

- For preventing late blight in potato, spraying of Mancozeb or Chlorothalonil or Copper Oxychloride is recommended.

Punjab

Amount of rainfall received over Punjab is 0.4 mm (-87% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Punjab is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, it is advised to transplant the brinjal hybrid varieties (viz., *BH-2*, *PBH-3* and *PBH-4*, *PBH-5*, *PBH41*, *PBH-42* and *Punjab Raunak*) from nursery to the

main field.

- Under prevailing weather condition, sowing of cucurbits like muskmelon, cucumber, bottle gourd, pumpkin, sponge gourd, squashes etc. can be done in field.

Uttarakhand

Amount of rainfall received over Uttarakhand is 0.5 mm (-92% large deficit) during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, farmers are advised to complete the pruning operation of the apple plants in high hills during clear weather condition and apply Bordeaux paste on the cut ends of broken or pruned branches to avoid fungal infection.

Andhra Pradesh

No rainfall was received over Coastal Andhra Pradesh and Rayalaseema during 01 - 04 March 2022. The extended range weather forecast (rainfall) provided for next two weeks (04 - 10 March 2022 and 11 - 17 March 2022) over Coastal Andhra Pradesh and Rayalaseema is above normal for week-1 and normal over Coastal Andhra Pradesh and below normal over Rayalaseema for week-2.

- Present weather conditions are favourable for incidence of blast and leaf folder in rice grown in Srikakulam, Chittoor, Kadapa, Nellore, Vizianagaram, Krishna, West Godavari, Prakasam Ananthapuramu and Kurnool districts. For effective control, farmers are advised to spray Tricyclazole @ 0.6 g/litre of water and to control leaf folder, spray Acephate @ 1.5g/ litre or Chlorantraniliprole 0.4 ml/litre of water.
- The current weather conditions are favorable for incidence of sucking pests in chilli grown in Srikakulam, Chittoor, Nellore and Ananthapuramu districts. To control, spraying of Profenofos @ 2ml or Thiodicarb 1.5g/ litre of water is recommended.

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