



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 25 February - 10 March 2022

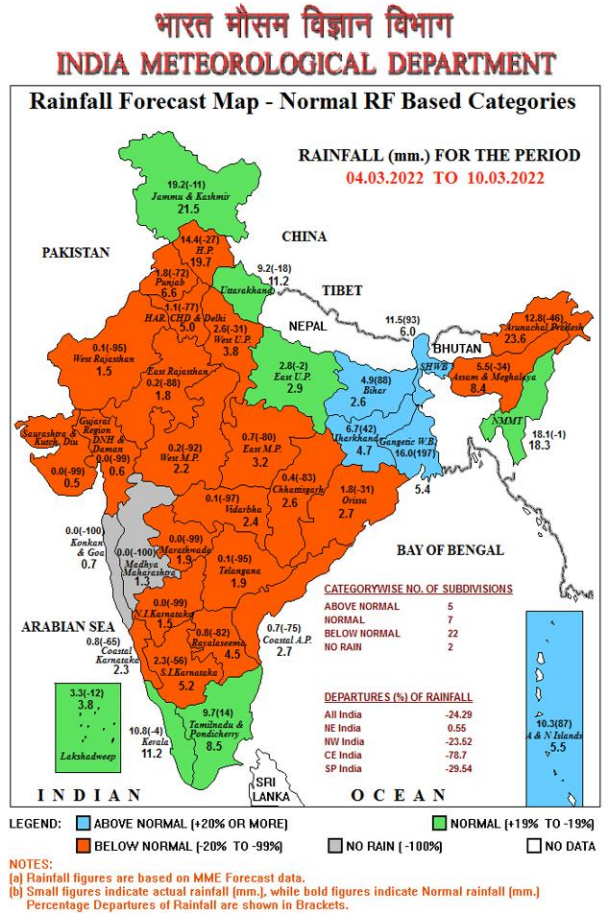
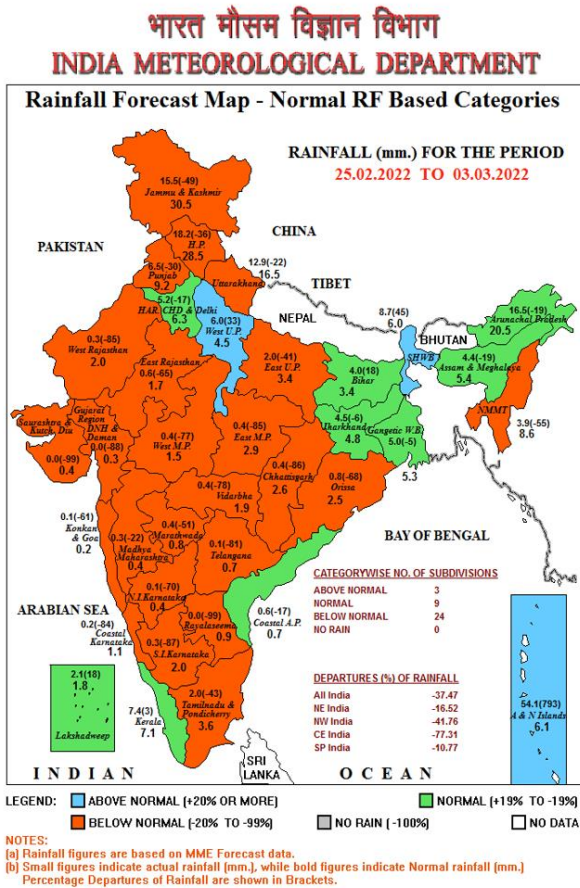
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**AICRP on Agro-Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA),
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&
India Meteorological Department (IMD),
Earth System Science Organization**

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 23 Feb.) (25th Feb. to 10th March, 2022)



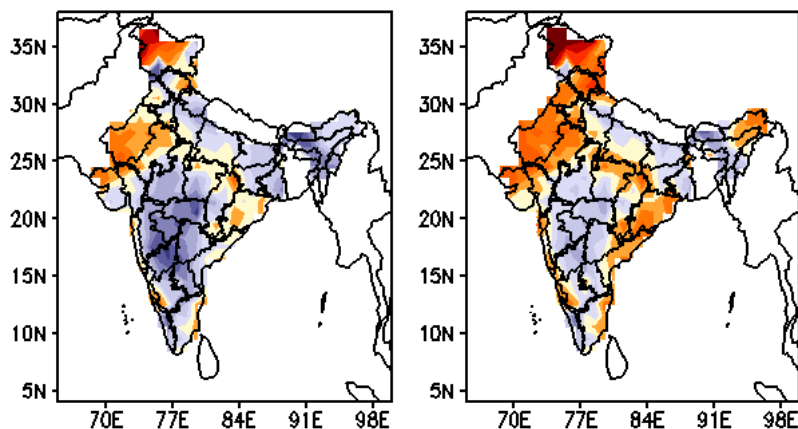
- **Week 1 (25.02.2022 to 03.03.2022) and Week 2 (04.03.2022 to 10.03.2022):** Western Disturbance will have an impact over north and northeast India in week 1 and also in week 2. Active conditions over south Bay of Bengal and adjoining Sri Lanka region in week 1 and over the Tamil Nadu coast and neighbourhood in week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 23 Feb.)
(25th Feb. to 10th March, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 25Feb–03Mar)

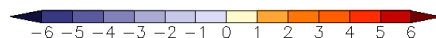
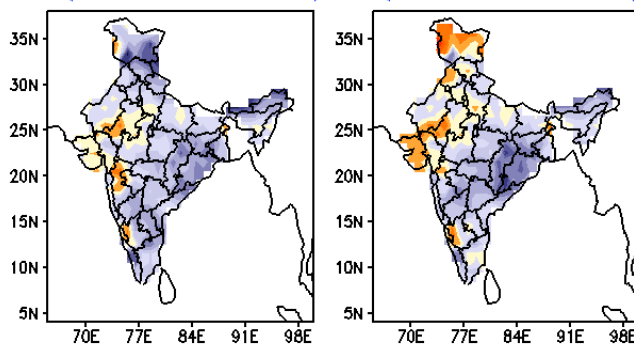
(Week2: 04Mar–10Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 25Feb–03Mar)

(Week2: 04Mar–10Mar)



Maximum Temperature (Tmax)

- **Week 1 (25.02.2022 to 03.03.2022):** Slight below normal Tmax likely over central and north-eastern parts of the country in week 1, whereas, above normal Tmax is likely over northwest India in week 1.
- **Week 2 (04.03.2022 to 10.03.2022):** Above normal Tmax likely over northwest India, eastern coastal states and parts of central India in week 2. Some parts of central India having slight negative anomalies. Tmax is expected to increase over Northwest India in week 2 with a positive anomaly.

Minimum Temperature (Tmin)

- **Week 1 (25.02.2022 to 03.03.2022) and Week 2 (04.03.2022 to 10.03.2022):** 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.

Strategic Agricultural Planning based on rainfall during next two weeks till 10 March 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 13 mm (-33% deficit) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) is normal for week-1 and week-2.

- To control the shoot borer attack of brinjal, it is advised to spray 5% neem seed kernel extract or any *Bacillus thuringiensis* formulations along with jaggery.
- Since dry weather condition is prevailing, there is a chance of mites infestation in arecanut. To manage, it is advised to spray wettable sulphur @ 2g per one litre of water under the surface of leaves.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 42 mm (59% excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) is above normal for week-1 and normal for week-2.

- Prevailing weather conditions are congenial for shoot fly infestation in sorghum. Farmers are advised to spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha under clear weather conditions.
- 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 0.7 mm (-72% large deficit); Marathwada is 0.3 mm (-95% large deficit); Vidarbha is 28 mm (66% large excess) and Konkan region is 3 mm (261% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is below normal for week-1 and; over Konkan and Madhya Maharashtra is no rainfall and; 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.
- In orange and sweet orange, application of Bordeaux paste on tree trunk is recommended to protect the crop from gummosis and dieback.

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 grains moisture % in grain is about 15%.

Konkan

- Due to forecast of gradual rise in temperature and decrease in humidity, there is a possibility for pre-mature fruit drop in mango, to minimize fruit drop, as per availability of water, it is advised to apply 100 litres/tree at weekly or 150 to 200 litres/ tree at 15 days interval from pea to arecanut fruit size.
- To avoid splitting of matured pods of cowpea, mung, chickpea pulse crop, it is advised to carryout harvesting of matured pulses during morning hours.

Hisar

Amount of rainfall received over Hisar is 81 mm (191% large excess) during 01 January - 24 February 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Hisar is normal for week-1 and below 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.

Karnataka

Rainfall received during 01 January - 24 February 2022 over South Interior Karnataka is 0.5 mm (-90 % large deficit) and North Interior Karnataka is 0.4 mm (-91% large deficit). The extended range weather forecast (rainfall) for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over South Interior Karnataka and North Interior Karnataka is below normal for week-1 and week-2.

South Interior Karnataka

- To control the fruit drop in mango (peanut stage/marble stage), it is advised to spray Naphthalene acetic acid (NAA) @ 20 ppm twice at an interval of 15 days during the early stage.
- 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.

Uttar Pradesh

Rainfall received during 01 January - 24 February 2022 over East Uttar Pradesh is 38 mm (58% excess) and West Uttar Pradesh is 77 mm (192% large excess). The extended range weather forecast (rainfall) for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over East Uttar Pradesh is below normal and West Uttar Pradesh is above normal for week-1 and below normal over West Uttar Pradesh and normal over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to cloudy weather and higher temperature during this week, farmers are advised to protect pea/chickpea from infestation of pod borer and castor semi looper by spraying Fenvalerate 0.4% DP 20-25 kg/ha or Quinalphos 20% EC 2.0 litre/ha or Malathion 50 % EC 2.0 litre/ha with 500 to 600 litres of water.
- 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

- In present weather condition sowing of French bean, cluster bean, summer radish is advised as prevailing temperature is suitable for germination of seeds.
- 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 226 mm (15% excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Jammu is below 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 69 mm (67% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Assam is normal for week-1 and below normal for week-2.

- Prevailing weather is suitable for harvesting of rapeseed and mustard crops. The crop is ready to harvest when 75 - 80% siliquae turns yellow.
- Under prevailing weather condition, vegetable crops like cabbage, cauliflower and broccoli crop may be attacked by caterpillars and leaf eaters. If moderate infestation is observed then, spraying of Chlorantraniliprole 18.5 SC @ 1ml per 3 litres of water during clear weather condition is advised.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 49 mm (147% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Chhattisgarh is below normal for week-1 and week-2.

- Looking into the present weather conditions, there is a chance of aphid attack in vegetable crops. Therefore, farmers are advised for continuous monitoring and spray neem-based pesticides when initial outbreak is seen.
- Poultry farmers are advised to vaccinate the chicks at the age of 5-7 days against Ranikhet disease.

Gujarat

Amount of rainfall received over Gujarat is 1 mm (-30% deficit) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Gujarat is below normal for week-1 and week-2.

- For the control of thrips in garlic, it is advised to spray Phosphamidon 5 ml or Dimethoate 15 ml or Methyl-o-Demeton 15 ml in 15 litres of water at 15 days interval.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 226 mm (31% excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 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 frenchbean are *Contender*, *Premier*, *Palam Mridula*, *Phalguni* and *Arka Komal*.
- Prevailing weather is suitable 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

Rainfall received during 01 January - 24 February 2022 over Gangetic West Bengal is 58 mm (89% large excess) and Sub-Himalayan West Bengal is 80 mm (102% large excess). The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Gangetic West Bengal is normal and Sub-Himalayan West Bengal is above normal for week-1 and; above normal over Sub-Himalayan West Bengal and Gangetic West Bengal for week-2.

- For preventive measure of late blight in potato, spraying of Mancozeb or Chlorothalonil or Copper Oxychloride is useful.

Punjab

Amount of rainfall received over Punjab is 120 mm (172% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Punjab is below normal for week-1 and; 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 148 mm (61% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Uttarakhand is below normal for week-1 and normal for week-2.

- Under prevailing weather condition farmers are advised to start the field preparation for the sowing of potato, barnyard millet etc. and collect the seed from the reliable source.

Andhra Pradesh

Amount of rainfall received over Coastal Andhra Pradesh is 32 mm (51% excess) over Rayalaseema is 10 mm (43% large excess) during 01 January - 24 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Coastal Andhra Pradesh is normal and Rayalaseema is below normal for week-1 and below normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- In Ananthapuramu, Kurnool and Kadapa districts, present weather conditions are favorable for spodoptera incidence in groundnut. To control spodoptera, spraying of Thiodicarb @ 1 g or Novaluron @ 1 ml or Flubendiamide @ 0.2 ml/litre of water is recommended.
- Present weather conditions are favourable 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.

Jharkhand

Amount of rainfall received over Jharkhand is 54 mm (102% large excess) during 01 January - 24

February 2022. The extended range weather forecast (rainfall) provided for next two weeks (25 February - 03 March 2022 and 04 - 10 March 2022) over Jharkhand is normal for week-1 and above normal for week-2.

- Farmers who wish to cultivate green gram may prepare their field and select recommended variety SML-688.

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