



National Agromet Advisory Service Bulletin

based on

Extended Range Weather Forecast (ERFS)

Validity: 18 February - 03 March 2022

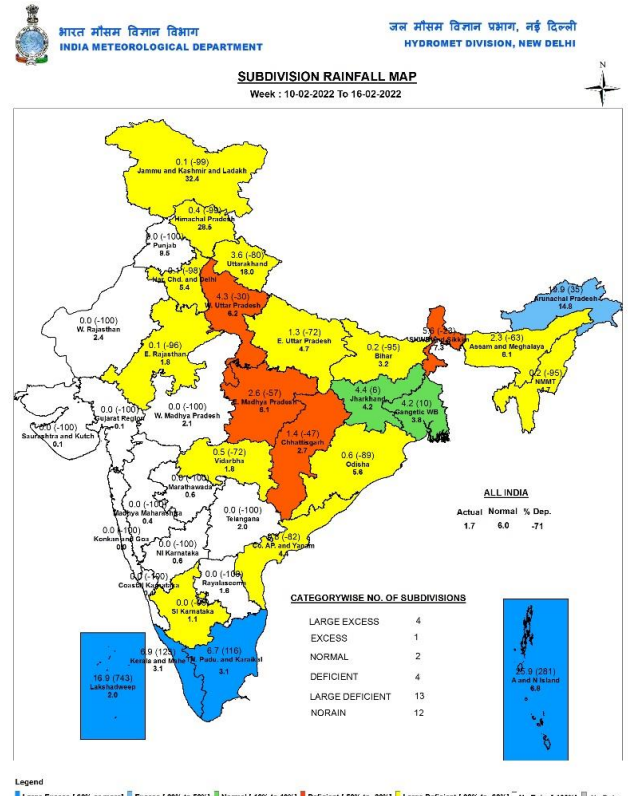
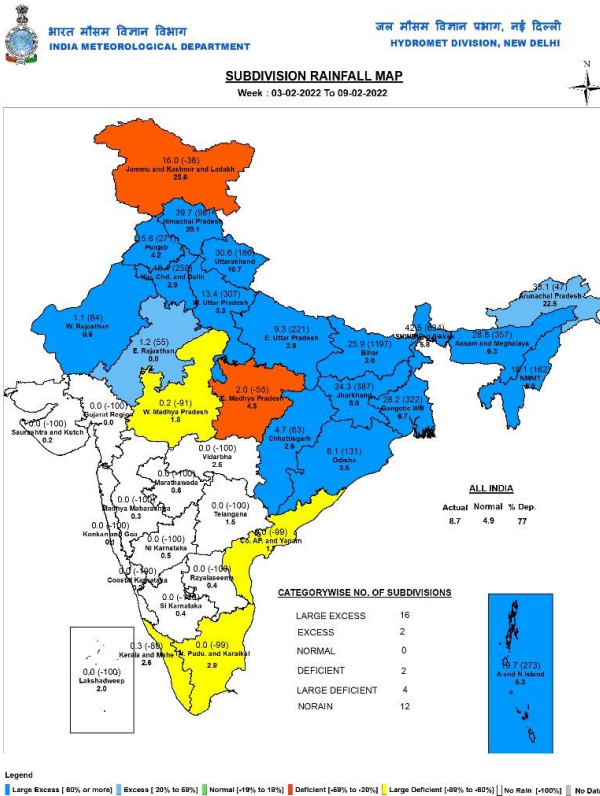
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**AICRP on Agro-Meteorology (AICRPAM),
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&
India Meteorological Department (IMD),
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall (3rd to 16th Feb., 2022)

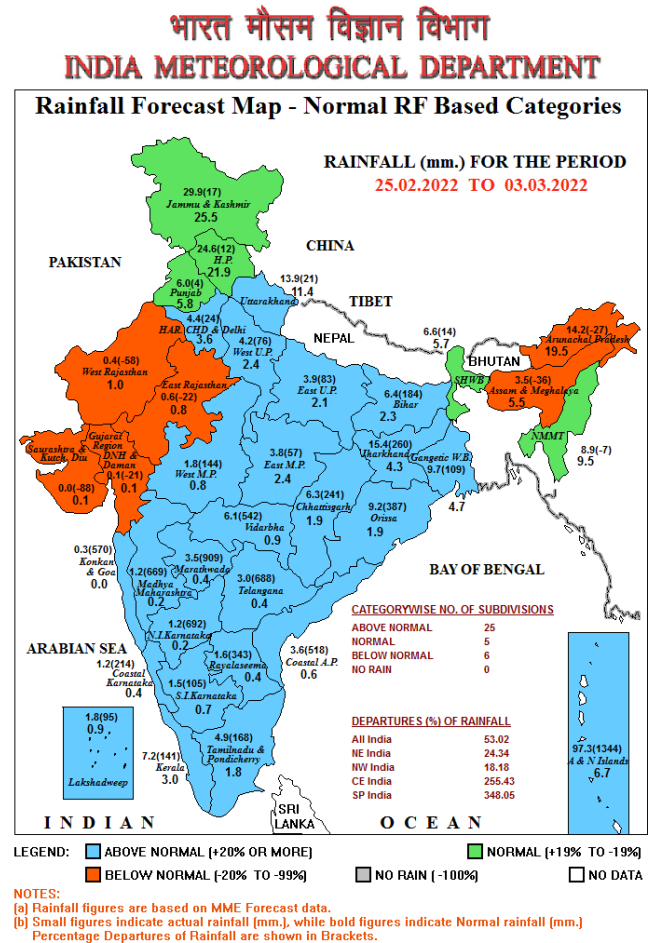
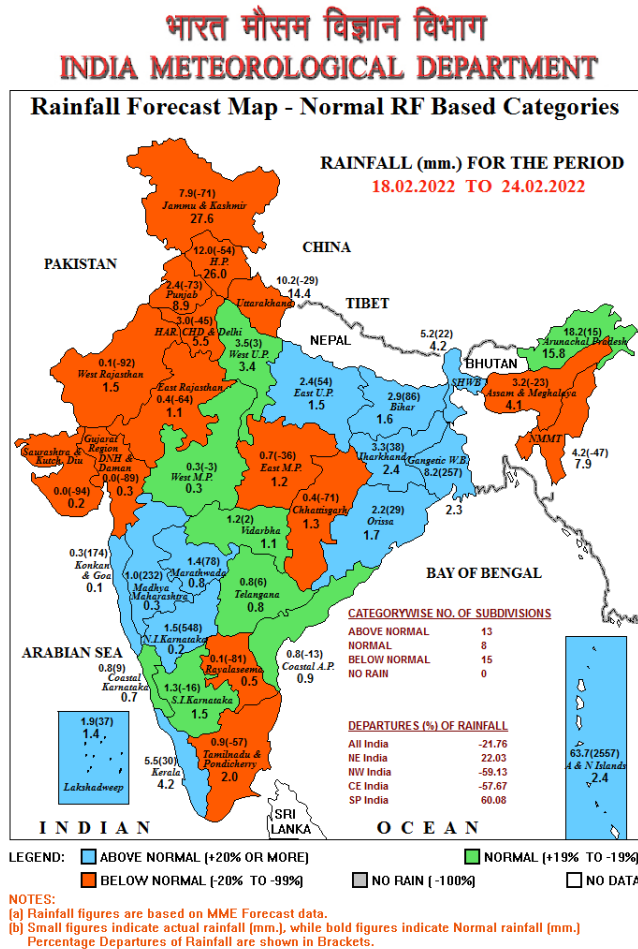


- Normal or above normal rainfall occurred in both the weeks in Arunachal Pradesh, Jharkhand, Gangetic West Bengal and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Uttarakhand, Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Odisha, Chhattisgarh, Assam & Meghalaya, Nagaland Manipur Mizoram & Tripura (NMMT), Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- 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 Feb.)

(18th Feb. to 3rd March, 2022)



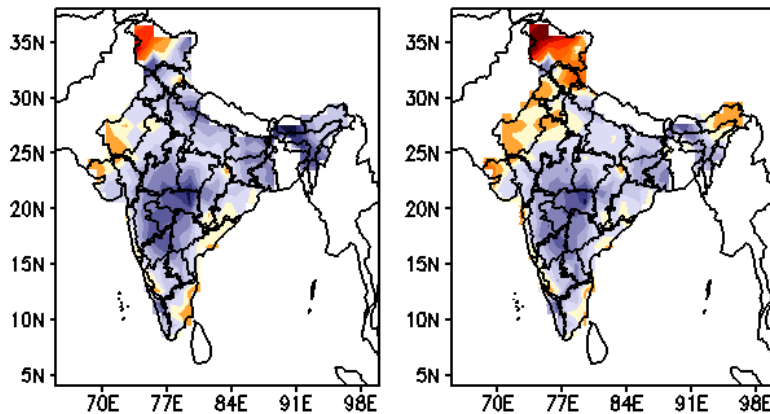
- Week 1 (18.02.2022 to 24.02.2022) and Week 2 (25.02.2022 to 03.03.2022):** Western Disturbance will have an impact over east and northeast India in week 1 and over north India in week 2. Andaman Sea and south Bay will remain active in week 1 and week 2.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 16 Feb.)
(18th Feb. to 3rd March, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 18Feb–24Feb)

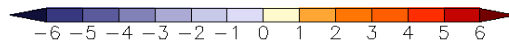
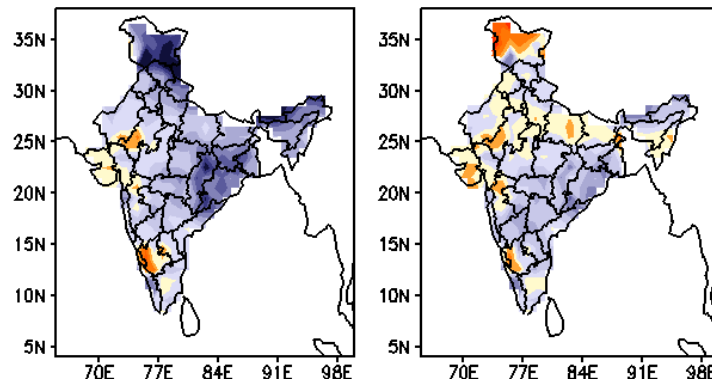
(Week2: 25Feb–03Mar)



MME forecast Tmin anomaly (Deg C)

(Week1: 18Feb–24Feb)

(Week2: 25Feb–03Mar)



Maximum Temperature (Tmax)

- **Week 1 (18.02.2022 to 24.02.2022) and Week 2 (25.02.2022 to 03.03.2022):** Slight below normal Tmax likely over India except some parts of extreme north India and southeast coastal regions of India and northwest India. Tmax is expected to increase over Northwest India in week 2 with a positive anomaly.

Minimum Temperature (Tmin)

- **Week 1 (18.02.2022 to 24.02.2022):** More parts of India will have negative Tmin anomalies with a large negative anomaly (-4 to -5 deg C) expected over east central parts of India covering Odisha, Chhattisgarh adjoining region in week 1.
- **Week 2 (25.02.2022 to 03.03.2022):** Similar Tmin anomalies like week 1 expected, however with weaker anomalies compared to week 1.

Strategic Agricultural Planning based on rainfall during next two weeks till 03 March 2022

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 13 mm (-19% deficit) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) is above normal for week-1 and week-2.

- Due to increase in atmospheric temperature, there is a chance of sucking pest infestation in vegetables. To control, it is advised to spray neem oil emulsion 2%, once in a week or spray *Lecanicillium lecanii* @ 20 g per litre of water under clear weather conditions.
- 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 (84% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) is below normal for week-1 and above 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.
- Prevailing weather conditions are congenial for shoot weevil infestation in cotton. Farmers are advised for basal application of FYM @ 25 t/ha or 250 kg/ha of neem cake.

Maharashtra

Rainfall received over Madhya Maharashtra is 0.7 mm (-69% large deficit); Marathwada is 0.3 mm (-94% large deficit); Vidarbha is 28 mm (84% large excess) and Konkan region is 3 mm (321% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Konkan, Madhya Maharashtra, Marathwada is above normal and Vidarbha is normal for week-1 and; over Konkan, Madhya Maharashtra, Marathwada and Vidarbha is above normal for week-2.

Vidarbha

- Under prevailing weather condition, it is advised to go for timely harvest of early sown chickpea crop, when the majority of the plants turn yellow and most pods mature.
- 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 for gradual rise in temperature and decrease in humidity, it is advised to provide irrigation to newly planted cashewnut orchard @ 15 litres of water at 15 days intervals.
- Under prevailing weather condition, there is a possibility of pod borer infestation on lablab bean. If noticed, it is advised to collect and destroy all infected pods and spray 5% neem seed kernel extract or Dimethoate 30% EC@12 ml per 10 litres of water.

Hisar

Amount of rainfall received over Hisar is 81 mm (235% large excess) during 01 January - 17 February 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Hisar is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to apply need-based irrigation during week-1 and chemical spray and also keep vigil for yellow rust in wheat.
- 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 - 17 February 2022 over South Interior Karnataka is 0.5 mm (-87% large deficit) and North Interior Karnataka is 0.4 mm (-90% large deficit). The extended range weather forecast (rainfall) for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over South Interior Karnataka is normal and above normal over North Interior Karnataka for week-1 and above normal over South Interior Karnataka and North Interior Karnataka for 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 - 17 February 2022 over East Uttar Pradesh is 38 mm (81% large excess) and West Uttar Pradesh is 77 mm (232% large excess). The extended range weather forecast (rainfall) for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over East Uttar

Pradesh is above normal and West Uttar Pradesh is normal for week-1 and above normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- 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*.
- For the management of aphids in mustard crop, it is advised to spray Imidacloprid 17.8% SL @ 300 ml/ha with 500 to 600 litres.

Eastern Uttar Pradesh

- In present weather condition, constant monitoring of the mustard crop against aphid attack is advised. If insect population is above ETL, then spraying of Imidacloprid @ 0.25 ml per litre of water is recommended during clear weather sky.
- 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 185 mm (16% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Jammu is below normal for week-1 and normal for week-2.

- Under sufficient moisture in soil, farmers are advised to prepare nursery bed for tomato /brinjal/ chilli crops.
- For the management of aphid in mustard crop, it is advised to install yellow sticky trap @ 5/kanal. If attack is severe, then spray Imidacloprid @ 0.3ml/litre of water.

Assam

Amount of rainfall received over Assam is 61 mm (89% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Assam is below normal for week-1 and week-2.

- Under prevailing weather condition, it is advised to continue land preparation for cultivation of green gram and black gram. Recommended high yielding varieties for green gram are K-851, Pratap (SG-1) etc. and for black gram varieties are Pant U 19, SBC 40 etc.
- 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 (173% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Chhattisgarh is below normal for week-1 and above normal for week-2.

- Prevailing temperature is suitable for growing of summer vegetables like pumpkin, bitter gourd, bottle gourd, okra etc. Hence, the sowing of these vegetables should be completed at the earliest.
- 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 (-19% deficit) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Gujarat is below normal for week-1 and week-2.

- For the management of late blight of potato, it is advised to spray Cymoxanil 8% + Mancozeb 64% WP fungicide 25 g in 10 liters of water.

Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 213 mm (45% excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Himachal Pradesh is below normal for week-1 and normal for week-2.

- With the increase in temperature the farmers of lower hill areas are advised for 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*.
- Maintain room temperature 18-22 °C and relative humidity around 80 - 85% for successful cultivation of mushrooms. Sprinkle water to maintain humidity but ensure air circulation by fans to prevent water retention on mushroom.

West Bengal

Rainfall received during 01 January - 17 February 2022 over Gangetic West Bengal is 57 mm (131% large excess) and Sub-Himalayan West Bengal is 74 mm (130% large excess). The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03

March 2022) over Gangetic West Bengal and Sub-Himalayan West Bengal is above normal for week-1 and; normal over Sub-Himalayan West Bengal and above normal over 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 (225% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Punjab is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, farmers are advised to prepare fields for the sowing/transplanting of spring/summer season crops like cucurbits, okra, tomato, chilli and brinjal etc.
- For the management of army worm, it is advised to spray Coragen 18.5 SC @ 40 ml/acre in 80-100 litres of water per acre in the evening.

Uttarakhand

Amount of rainfall received over Uttarakhand is 142 mm (86% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Uttarakhand is below normal for week-1 and above normal for week-2.

- Due to dry and increasing temperature conditions, farmers are advised to monitor mustard crops against attack of aphid. To control, spraying of Imidacloprid @ 0.5 ml per litre of water is advised.
- In view of increasing temperature in view, farmers are advised for start field ploughing and sowing of early summer crops like potato and barnyard millet.

Andhra Pradesh

Amount of rainfall received over Coastal Andhra Pradesh is 31 mm (89% large excess) over Rayalaseema is 10 mm (75% large excess) during 01 January - 17 February 2022. The extended range weather forecast (rainfall) provided for next two weeks (18 - 24 February 2022 and 25 February - 03 March 2022) over Coastal Andhra Pradesh is normal and Rayalaseema is below normal for week-1 and above normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- The present weather conditions are favourable for incidence of sucking pest in chilli grown in Srikakulam, Chittoor, Nellore and Anantapur districts. To control, spraying of Pronephros @ 2ml/litre or Thiodicarb 1.5g/ 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.

Disclaimer:

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