



## National Agromet Advisory Service Bulletin

based on

### Extended Range Weather Forecast (ERFS)

**Validity: 07 - 20 January 2022**

**Date of issue: 07 January 2022**

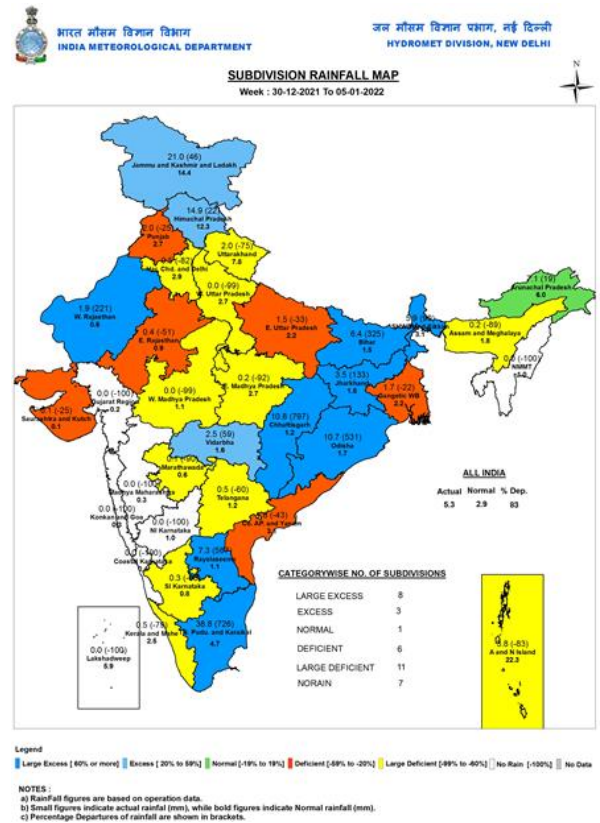
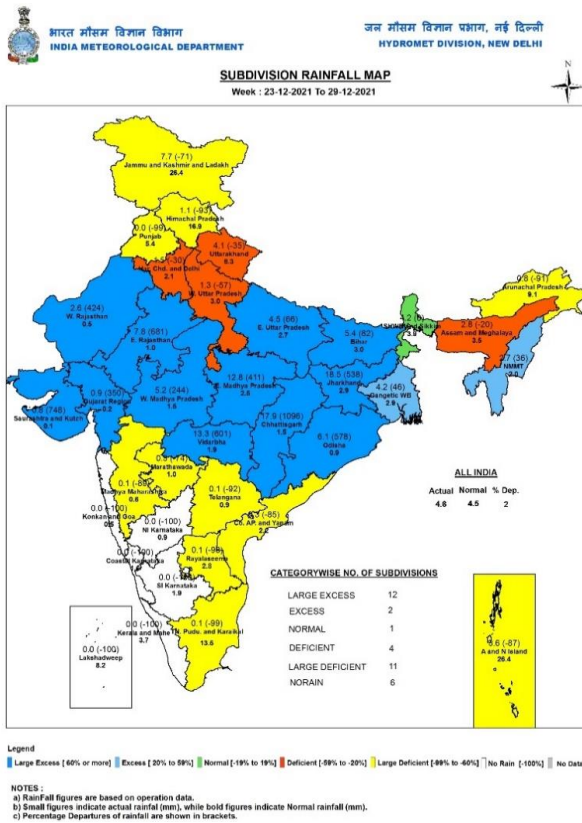
Issued by

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

## Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

### Realized Rainfall

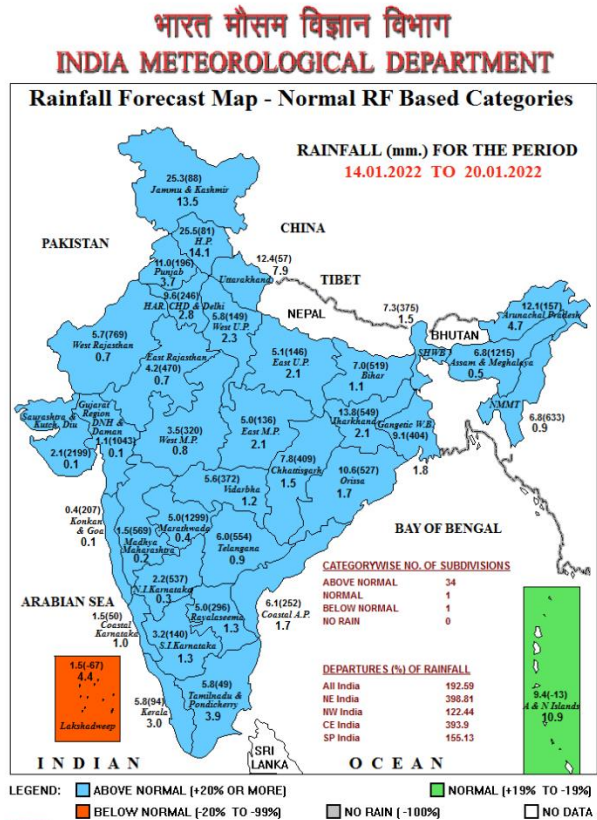
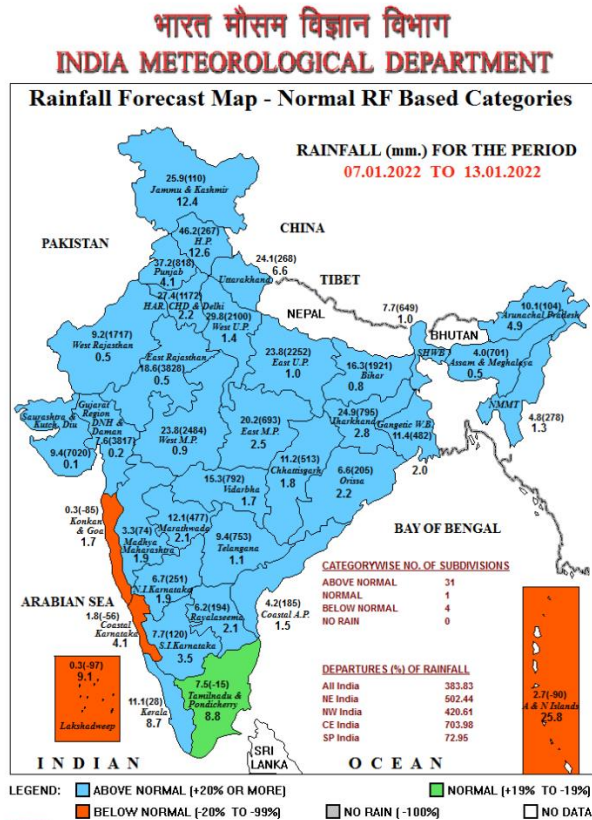
(23<sup>rd</sup> December, 2021 to 5<sup>th</sup> January, 2022)



- Normal or above normal rainfall occurred in both the weeks in Sub-Himalayan West Bengal & Sikkim, Odisha, Jharkhand, Bihar, West Rajasthan, Vidarbha and Chhattisgarh.
- Normal or above normal rainfall occurred in either of the two weeks in Nagaland Manipur Mizoram & Tripura (NMMT), Gangetic West Bengal, East Uttar Pradesh, East Rajasthan, Madhya Pradesh, Gujarat, Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir and Ladakh (UTs), Rayalaseema and Tamil Nadu Puducherry & Karaikal.
- 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 – 05<sup>th</sup> January) (07<sup>th</sup> to 20<sup>th</sup> January, 2022)



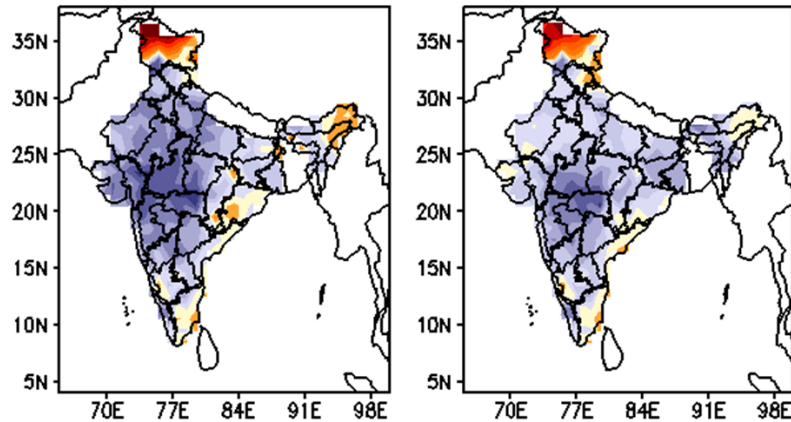
- **Week 1 (07.01.2022 to 13.01.2022):** Western Disturbances are likely to impact north India and adjoining central India. Cyclonic circulation likely over southwest Bay of Bengal and adjoining Sri Lanka and adjoining Tamil Nadu coast region.
- Western Disturbances associated rainfall is expected over extreme north India covering Jammu & Kashmir and Himachal Pradesh. Some parts of the southeast coastal region are also likely to get rainfall.
- **Week 2 (14.01.2022 to 20.01.2022):** Likely impact of Western Disturbances over some parts of north India.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC – 05<sup>th</sup> January, 2022)  
(07<sup>th</sup> to 20<sup>th</sup> January, 2022)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 07Jan–13Jan)

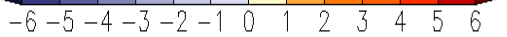
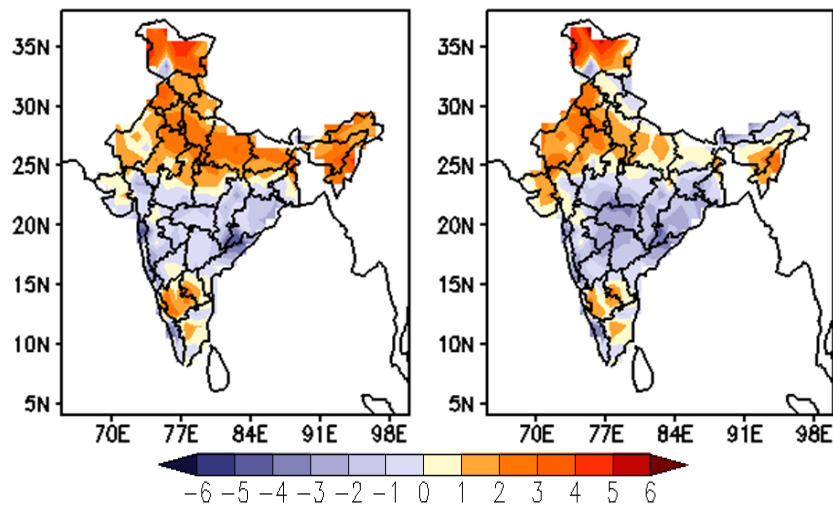
(Week2: 14Jan–20Jan)



**MME forecast Tmin anomaly (Deg C)**

(Week1: 07Jan–13Jan)

(Week2: 14Jan–20Jan)



**Maximum Temperature (Tmax)**

- **Week 1 (07.01.2022 to 13.01.2022) and Week 2 (14.01.2022 to 20.01.2022):** Mostly below normal Tmax over most parts of India in week 1 and 2 except some isolated regions of extreme north India, eastern coastal states and isolated regions over northeast India during week 1.

**Minimum Temperature (Tmin)**

- **Week 1 (07.01.2022 to 13.01.2022) and Week 2 (14.01.2022 to 20.01.2022):** Slightly above normal Tmin over north India and adjoining central India.

## Strategic Agricultural Planning based on rainfall during next two weeks till 20 January 2022

### Agro-met Advisories

#### Kerala

Amount of rainfall received over Kerala is 0.5 mm (-72% large deficit) during 01 - 06 January 2022. The extended range weather forecast (rainfall) for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) is above normal for week-1 and week-2.

- To protect the young vines of black pepper from hot sun, it is advised to cover the young plants with dry arecanut leaves, coconut leaves or twigs of trees until summer months over.
- Current weather conditions may be conducive to the rice bug infestation in paddy. To control, it is advised to spray fish jaggery extract @ 20 ml per litre of water or spray chitin-based *Pseudomonas fluorescens* @ 20 g in one litre of water. If the attack is severe then spray Azadirachtin @ 10 ml or Malathion @ 2 ml per litre of water.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 29 mm (726% large excess) during 01 - 06 January 2022. The extended range weather forecast (rainfall) for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) is normal for week-1 and above normal for week-2.

- Current weather condition is favorable for shoot weevil infestation in cotton. To prevent, soil application of Carbofuran 3G @ 30 kg is advised 20 days after sowing and earthing up.
- Prevailing weather conditions are congenial for shoot fly incidence in sorghum. Farmers are advised to spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 0.0 mm (no rainfall); Marathwada is 0.0 mm (no rainfall); Vidarbha is 0.0 mm (no rainfall) and Konkan region is 0.0 mm (no rainfall) during 01 - 06 January 2022. The extended range weather forecast (rainfall) for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Konkan is below normal and above normal over Marathwada, Madhya Maharashtra and Vidarbha for week-1; During week-2, above normal rainfall is expected over Konkan, Madhya Maharashtra, Marathwada and Vidarbha regions.

#### Vidarbha

- In view of light to medium rainfall forecast, it is advised to take on remaining picking of burst cotton bolls immediately and store the harvested produce safely.
- For very late sowing of irrigated wheat crop up to January 7, it is advised to use varieties - AKAW 4627 and PDKV Sardar (AKAW 4210-6).

### *Madhya Maharashtra*

- For the management of leaf curl in chilli, spraying of Dimethoate @15 to 20 ml per litre of water is advised.
- To avoid fruit drop in mango, application of Imidacloprid @ 1 ml per litre of water is recommended.

### *Marathwada*

- Due to cloudy weather condition, stem borer infestation may be observed in wheat crop. For management, it is advised to spray Cypermethrin 10 EC @ 11 ml per 10 litres of water.
- For management of stem borer and fall armyworm in *rabi* sorghum crop, it is advised to spray Thiamethoxam 12.6 % + Lambda – cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 litres of water.

### *Konkan*

- For the control of powdery mildew disease, it is advised to spray Hexaconazole 5% @ 5 ml or wettable sulphur 80% @ 20 g per 10 litres in water along with insecticides given as per blossom protection schedule.
- To minimize the pre-mature fruit drop of mango, it is advised to apply 150 to 200 litres of water per tree after fruit setting @ 15 days interval for 3 to 4 times also use straw mulch to reduce evaporation losses.

### **Hisar**

Amount of rainfall received over Hisar is 9.6 mm (382% excess) during 01 - 06 January 2022. The extended range rainfall forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Hisar is above normal for week-1 and week-2.

- To protect the crops from frost and low temperature, it is advised to apply need-based irrigation in evening hours.
- Due to prevalence of variable weather, farmers are advised to keep the animal under sheds 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 - 06 January 2022 over South Interior Karnataka is 0.3 mm (-35% deficit) and North Interior Karnataka is 0.0 mm (no rainfall). The extended range weather forecast (rainfall) for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

### *North Interior Karnataka*

- Under clear weather condition, harvesting of pigeon pea is advised with all precautionary measures.
- Farmers are advised to vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and *Haemorrhagic Septicaemia*.

### **Uttar Pradesh**

Rainfall received during 01 - 06 January 2022 over East Uttar Pradesh is 1 mm (-30% deficit) and West Uttar Pradesh is 6 mm (230% large excess). The extended range weather forecast (rainfall) for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over East Uttar Pradesh and West Uttar Pradesh is above normal for week-1 and week-2.

### *Western Uttar Pradesh*

- Due to the chances of light to scattered rainfall, it is advised to monitor the aphid in mustard crop. If seen, spray Chlorpyrifos 20% EC @ 1.0 litre/ha or Monocrotophos 36% SL @ 500 ml/ha with 500-600 litres of water solution in clear weather condition.
- For the management of leaf worm in pigeon, it is advised to spray Emamectin benzoate 5% SG @ 250g/ha or Cypermethrin 25% EC @ 500ml/ha with 500 litres of water solution in clear weather condition.

### *Eastern Uttar Pradesh*

- Under prevailing weather condition constant monitoring of aphid is advised in mustard crop. If insect population is above ETL then spraying of Imidacloprid @ 0.25 ml per litre of water is recommended during clear weather condition.
- To protect the animals from the cold, it is advised to tie them in the animal house and keep the windows and doors of the stockyard closed at night. It is also advised to provide them balanced diet i.e., 50 grams of mineral powder and 20 grams of salt daily.

### **Jammu**

Amount of rainfall received over Jammu is 56 mm (358% large excess) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Jammu is above normal for week-1 and week-2.

- Due to the rain in past week and chances of rain in coming week, it is advised to make arrangements to drain out excess rainwater from the mustard, wheat and all *rabi* crop fields and postpone the application of fertilizers and chemical plant protection measures.
- Due to heavy rainfall condition, it is advised to avoid sowing very late sown wheat and keep the field in *vattar* (optimum soil moisture) condition.

## **Assam**

Amount of rainfall received over Assam is 0.0 mm (-99% large deficit) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Assam is above normal for week-1 and week-2.

- As no rainfall was received during the last week in most of the region of Assam, if required, farmers may apply 6 cm of water in mustard crop either at 50% flowering stage or silique formation stage to increase the seed yield of mustard and rape seed.
- Under prevailing weather condition, complete the sowing of summer harvest pumpkin is advised with recommended varieties viz. *Arka Suryamukhi*, *Arka Chandan* etc.

## **Chhattisgarh**

Amount of rainfall received over Chhattisgarh is 0.0 mm (no rainfall) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Chhattisgarh is above normal for week-1 and week-2.

- Due to continuous rain, there is chance of aphid attack in oilseed crops. Therefore, monitoring and during initial outbreak, spraying of Imidacloprid 17.8 SL @ 0.5 ml of solution by mixing in one litre of water in the morning or evening at an interval of 10-15 days is advised.
- To avoid fruit shed in sapota, spraying of Planofix @ 1 ml per litre as a foliar spray is advised.

## **Gujarat**

Amount of rainfall received over Gujarat is 0.1 mm (-54% deficit) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Gujarat is above normal for week-1 and week-2.

- As per forecast, there is possibility of above normal rainfall in some parts of Gujarat state. Farmers are advised to protect their harvested farm product from rain and keep them at safe place.

## **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 45 mm (309% large excess) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Himachal Pradesh is above normal for week-1 and week-2.

- For the successful cultivation of mushrooms, it is advised to maintain room temperature 25 - 28°C and relative humidity around 80 - 85%.
- Under prevailing weather condition, it is advised to prepare the pits for planting the winter plants like pecan nut, walnut, almond, plum and peach.



## **West Bengal**

Rainfall received during 01 - 06 January 2022 over Gangetic West Bengal is 0.0 mm (-99% large deficit) and Sub-Himalayan West Bengal is 0.2 mm (-94% large deficit). The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Gangetic West Bengal and Sub-Himalayan West Bengal is above normal for week-1 and week-2.

- For the management of alternaria blight in mustard crop, it is advised to spray Metalaxyl (8% WP) and Mancozeb (64% WP) @ 2.5 g per litre followed by spraying of Copper oxychloride (50% WP) @ 4 g per litre of water.

## **Odisha**

Amount of rainfall received over Odisha is 0.0 mm (no rainfall) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Odisha above normal for week-1 and week-2.

- To protect the paddy nursery from cold injury, it is advised to apply a thin layer of well decomposed FYM after sowing of seeds in wet bed to keep the bed relatively warm.
- To manage mites in chilli crop, it is advised to spray Ethion 50% EC @ 600 ml/acre or Spiromesifen 22.9% SC @ 200 ml/acre or Propargite 57 % EC @ 600 ml/acre.

## **Uttarakhand**

Amount of rainfall received over Uttarakhand is 21 mm (304% large excess) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Uttarakhand is above normal for week-1 and week-2.

- Due to rainfall received in past days and there is forecast of rainfall in coming days, farmers are advised to maintain proper drainage in all crops.
- To conserve soil moisture and maintain soil temperature, farmers are advised to apply mulch in space between two rows of vegetables crops specially in potatoes.

## **Punjab**

Amount of rainfall received over Punjab is 24 mm (753% large excess) during 01 - 06 January 2022. The extended range weather forecast (rainfall) provided for next two weeks (07 - 13 January 2022 and 14 - 20 January 2022) over Punjab is above normal for week-1 and week-2.

- To protect potato crop from late blight, it is advised to spray Indofil M-45/Antracol/ Kavach @ 500- 700 g or Copper oxychloride 50 WP/Mark copper @ 750- 1000 g/acre in 250- 350 litres of water at 7 days interval.
- Mulching is advised in vegetable crops i.e. cauliflower, spinach, fenugreek, coriander, radish, turnip, pea, tomato, brinjal, chilli and capsicum to reduce heat loss from the surface.

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