



National Agromet Advisory Services Bulletin

Date of issue: 02 December 2022

based on

Extended Range Weather Forecast (ERFS)

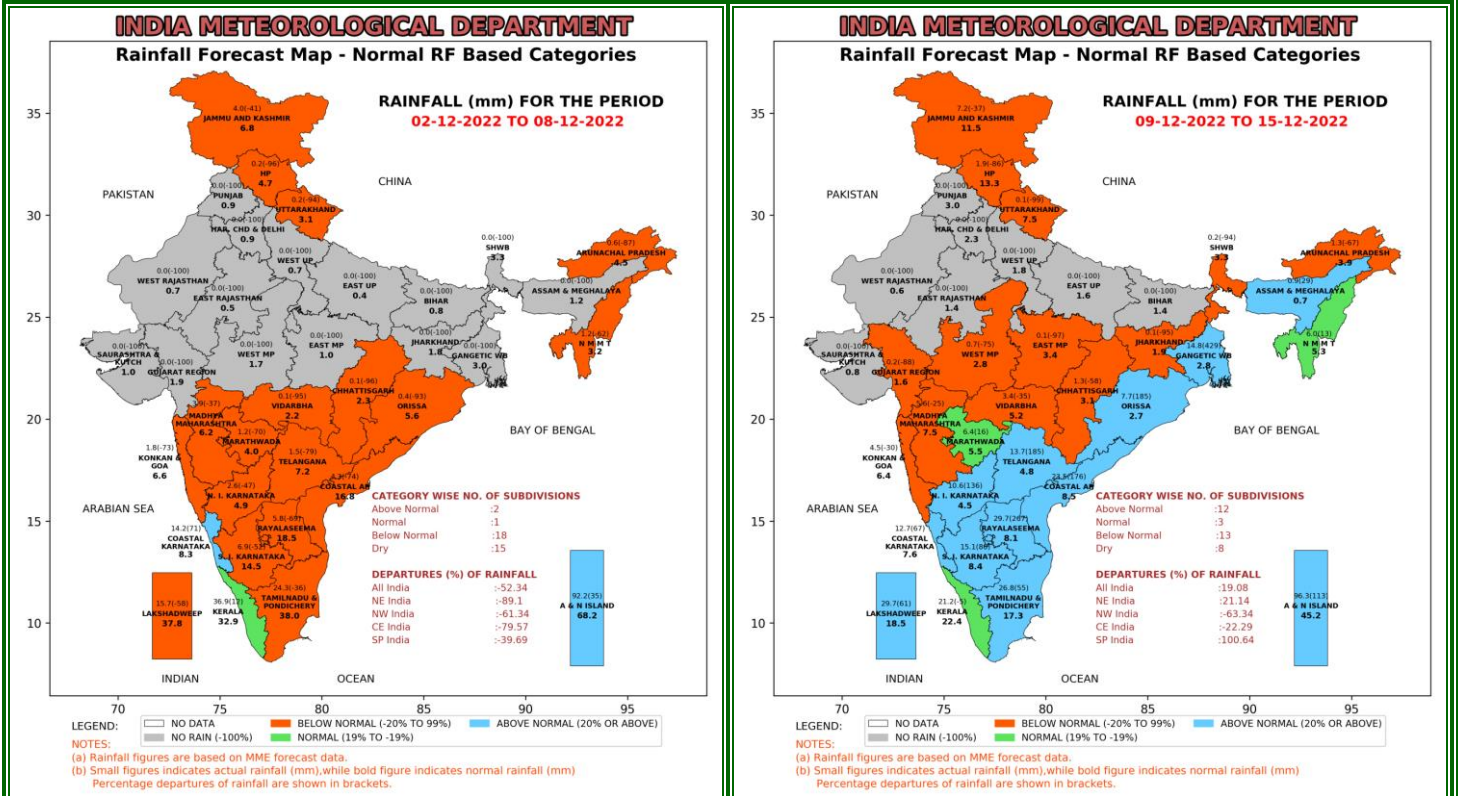
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Issued by

**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**

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 30th November) (02nd December to 15th December, 2022)



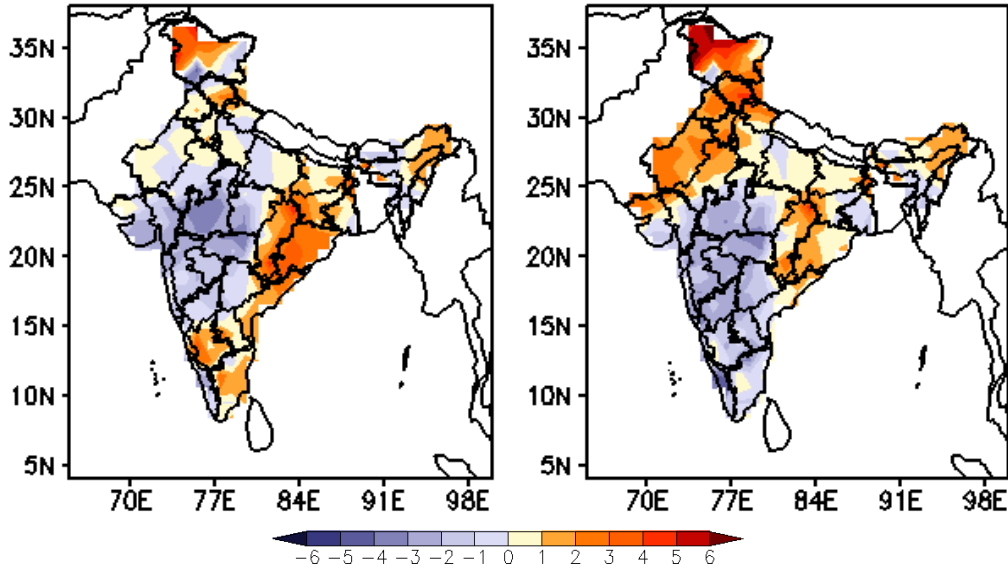
- **Week 1 (02.12.2022 to 08.12.2022):** Below normal rainfall is likely over most parts of the country.
- **Week 2 (09.12.2022 to 15.12.2022):** Normal to slightly above normal rainfall is likely over peninsular India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC- 30th November)
(02nd December to 15th December, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 02Dec-08Dec)

(Week2: 09Dec-15Dec)



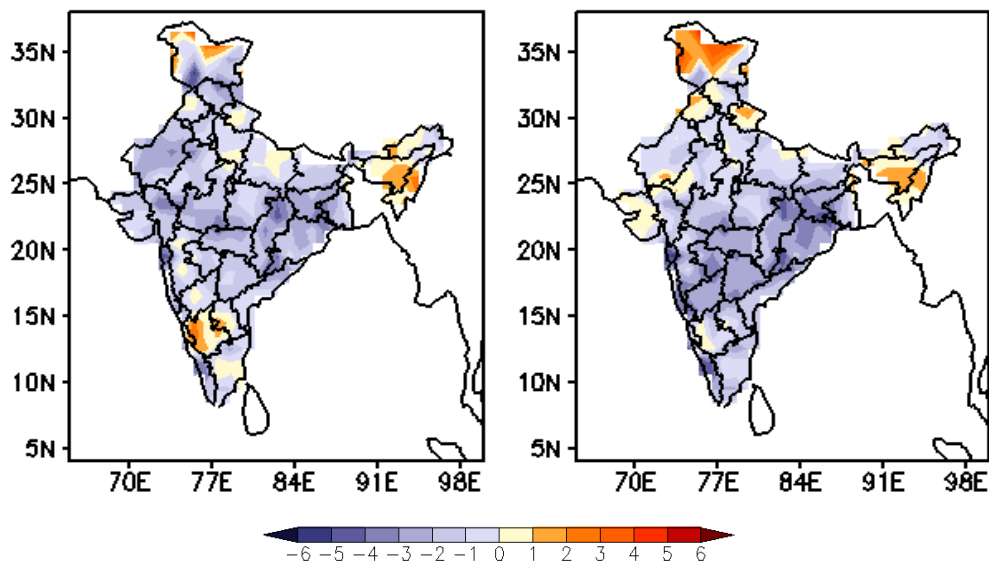
Maximum Temperature (Tmax)

- **Week 1 (02.12.2022 to 08.12.2022):** Tmax will be slightly above normal over parts of East, Northeast and peninsular India.
- **Week 2 (09.12.2022 to 15.12.2022):** Tmax will be slightly above normal over northwest India and parts of central, east & northeast India.

MME forecast Tmin anomaly (Deg C)

(Week1: 02Dec-08Dec)

(Week2: 09Dec-15Dec)



Minimum Temperature (Tmin)

- **Week 1 (02.12.2022 to 08.12.2022) and Week 2 (09.12.2022 to 15.12.2022):** Tmin is likely to be below normal over most parts of the country.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 149 mm (304% large excess) and over West Uttar Pradesh was 140 mm (479% large excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-1 and week-2.

Western Uttar Pradesh

- For managing leaf webber in pigeon pea, it is advised to spray Emamectin benzoate 5% SG @ 250g/ha or Cypermethrin 25% EC @ 500ml/ha with 500 litres of water solution during clear weather condition.
- Under prevailing weather conditions, it is advised to pick up mature fruits of standing vegetable crops like brinjal and chilies, etc. and transplants the new seedlings of winter vegetables.

Eastern Uttar Pradesh

- Under prevailing weather condition, transplanting of mature seedlings of cauliflower, cabbage, broccoli and tomato is advised to do on raised bed.

Bihar

The amount of rainfall received over Bihar was 82 mm (32% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is no rainfall for week-1 and week-2.

- In view of low soil moisture and dry weather condition, farmers are advised to provide light irrigation in garlic fields at a regular interval.
- Farmers are advised to start sowing of late variety of wheat crop viz., *DBW-187, HD-2733, HW-2045, HUW-234, WR-544, DBW-14, HW-2045, HD-2967, Rajendra Gehun-1* varieties are recommended for late sowing in North Bihar.
- Low temperature may adversely affect the milk production and performance of domestic animals. Farmers are advised to give protein enriched diet to the animals and do not keep animal in open at night.

Kerala

The amount of rainfall received over Kerala was 387 mm (-16% deficit) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is normal for week-1 and week-2.

- To control sheath blight disease in rice, it is advised to spray 4 g of Trifloxystrobin + Tebuconazole mixture in 10 litres of water.
- For the management of fruit borer in cowpea, it is advised to apply 5% Neem kernel suspension or spray Flubendiamide 2 ml per 10 litres of water or Chlorantraniliprole 3 ml per

ten litres of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 346 mm (-3% deficit) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is below normal for week-1 and above normal for week-2.

- Prevailing weather condition is favorable for Tristeza wilt in acid lime. To prevent, it is advised for prophylactic spray of 5% NSK solution at 15 days interval.
- Prevailing weather conditions are congenial for fall army worm and leaf blight incidence in maize. Farmers are advised to go for foliar spray of Cyantraniliprole (19.8% SC) + Thiamethoxam (19.8 % FS) 4 ml/10 ml of water and Emamectin benzoate @ 4.5 g / 10 litres of water.

Maharashtra

159 mm (60% large excess) rainfall over Madhya Maharashtra; 132 mm (43% excess) in Marathwada; 171 mm (24% excess) in Konkan region and 87 mm (23% excess) over Vidarbha was recorded during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is below normal over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-1 and; below normal over Madhya Maharashtra, Konkan and Vidarbha and normal over Marathwada for week-2, respectively.

Vidarbha

- Due to the continuous cold weather across the region, it is advised to apply need-based irrigation to protect the susceptible field crops (pigeon pea), orchards and vegetables from cold.
- Farmers are advised to apply organic mulches in fruit crop tree basins for thermal insulation to reduce cooling of soil surface during cold weather period and also create air blanket of smoke over the field by burning waste materials/weeds and crop residues in the evening/night.

Marathwada

- For the management of jassid in mango orchard, it is advised to spray of Dimethoate 30% @ 13 ml or Buprofezin 25% @ 20 ml or Thiamethoxam 25% 2 gm per 10 litres of water.
- For the management of flower drop in late sown pigeon pea crop, it is advised to spray NAA @ 3 ml per 10 litres of water.

Konkan

- Due to cloudy weather condition, there is possibility for anthracnose disease on mango flush

and inflorescence. To manage, it is advised to spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 litres of water along with insecticides given as per blossom protection schedule.

- Under prevailing weather condition, it is advised to provide irrigation to newly planted mango orchard @ 30 litres of water at 7 days interval (1-year-old), 15 days interval (2 years old) and one-month interval to 3 years old tree.

Madhya Maharashtra

- For control of pod borer in pigeon pea, it is advised to install the Pheromone traps @ 5/ha. If required, spraying of Neemark 5% or Monocrotophos 20 ml/10 litres of water should be done.
- Under prevailing weather condition, mulching is advised to reduce the evaporation from soil in orchard crops.

Odisha

The amount of rainfall received over Odisha was 125 mm (-7% deficit) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Odisha is below normal for week-1 and above normal for week-2.

- Due to prevailing low temperature, farmers are advised to use low cost polythene to cover above the vegetables nursery to avoid poor germination.
- To check flower-drop in chilli, it is advised to spray Alpha Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litres of water twice at flower initiation stage and 20-30 days later of first spray.
- To prevent damping off disease in nursery, it is advised to drench the nursery bed with Carbendazim @ 2 g/litre of water at 15 days interval.

Jammu

101 mm of rainfall (47% excess) was received over Jammu during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Jammu is below normal for week-1 and week-2.

- Earthing up is recommended in turnip/carrot to protect the crops from direct sunlight.
- Due to the presence of sufficient moisture in the soil, farmers are advised to go for sowing of late sown wheat varieties (20th Nov to 25th Dec) like *PBW-752*, *DBW-173*, *WH-1124*, *DBW-90* and *HD-3059*.

Assam

The amount of rainfall received over Assam during 01 October - 01 December 2022 was 221 mm (23% excess). The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Assam is no rainfall for week-1 and above normal for week-2.

- Due to prevailing dry weather condition, it is advised to provide irrigation to the arecanut

plants at an interval of 10 days, along with proper drainage facilities.

- Farmers may continue to harvest the matured *sali* rice crop as dry weather is expected during next week.

Karnataka

Rainfall received during 01 October - 01 December 2022 over South Interior Karnataka was 257 mm (36% excess), 161 mm (28% excess) over North Interior Karnataka and 180 mm (-29% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is above normal over Coastal Karnataka and below normal over North Interior Karnataka and South Interior Karnataka for week-1 and; above normal over Coastal Karnataka, South Interior Karnataka and North Interior Karnataka for week-2.

South Interior Karnataka

- Under prevailing weather following crops with recommended varieties are advised:
Horse gram (var. *PHG-9, KBH-1, Niger*), Field bean (var. *HA-3 and 4*), sunflower (*KBSH-1,41,42, 44 and 53*) and Cow pea (*KBC-1, TVX-944 and PKB-4* for vegetable purpose).
- Due to cloudy and drizzling rainfall, it is advised to postpone the harvesting of *kharif* crops in next couple of days.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 72 mm (3% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Chhattisgarh is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of improved varieties of sunflower like *Modern, TNAU, SUF-7, BSH-1, KBSH-1, DRSH-1, Jwalamukhi, Surya* etc is advised.
- Due to decrease in temperature, dairy farmers are advised to keep the animals in the cattle shed with concrete / brick roof.

Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 264 mm (-11% deficit) and over Rayalaseema was 200 mm (-5% deficit) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is below normal over Coastal Andhra Pradesh and Rayalaseema for week-1 and above normal for week-2.

- The present weather conditions are favorable for incidence of pink boll worm in cotton grown in Srikakulam, Prakasam, Guntur, Krishna, Ananthapuram, YSR Kadapa, and Kurnool districts. To control the pink boll worm, spraying of Profenofos @ 2ml or Thiodicarb 1.5g/ litre of water is recommended.

Gujarat

The amount of rainfall received over Gujarat was 37 mm (18% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- For the control of sucking pest in pigeon pea, it is advised to spray *Beauveria bassiana* 40 g or Thiamethoxam 25 WG 0.01% 4 g or Flonicamid 50 WG 4 g mix in 10 litres of water.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 119 mm (-24% deficit) and Sub Himalayan West Bengal was 210 mm (33% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) is no rainfall over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and above normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal for week-2.

- It is the optimum time to harvest and processes late transplanted *kharif* rice.

Uttarakhand

The amount of rainfall received over Uttarakhand was 120 mm (217% large excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, farmers are advised to transplant the cabbage seedlings from nursery to main field and after transplanting, immediately apply light irrigation.

Jharkhand

The amount of rainfall received over Jharkhand was 93 mm (12% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Jharkhand is no rainfall for week-1 and; below normal for week-2.

- Low temperature favors the attack of aphids in vegetables and field crops. At initial stage, the aphids may be controlled by spraying of neem based insecticide. If the insect population is above ETL, spray insecticide like Pronephros @ 1 ml per litre of water.
- Farmers wish to cultivate onion may start raising of seedling with recommended varieties like *Pusa Red*, *Pusa Ratnar*, *N-53*, *Arka Niketan*, *Arka Kalyan* and *Agrifound Dark Red* etc.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 58 mm (27% excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Himachal Pradesh is below normal for week-1 and week-2.

- Under adequate soil moisture, farmers are advised to go for the sowing of late sown wheat crop. If the moisture content in the soil is inadequate for ensuring proper germination, farmers are advised to wait for the rains and then go for sowing of wheat.
- Under prevailing weather condition, farmers are advised to add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.

Punjab

The amount of rainfall received over Punjab was 11 mm (-20% deficit) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Punjab is no rainfall for week-1 and week-2.

- For management of canker in citrus orchard, it is advised to spray Streptocycline 50 g + 25 g Copper sulphate in 500 litres of water per acre or Bordeaux mixture (2:2:250) during this month.
- It is the optimum time for transplanting of tomato, brinjal, chilli and capsicum for early and higher yield.

Rajasthan

The amount of rainfall received over East Rajasthan was 69 mm (204% large excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over East Rajasthan is no rainfall for week-1 and week-2.

- Under prevailing weather condition, it is advised to complete the sowing of barley in this week with improved varieties viz., *RD-2035*, *RD-2786*, *RD-2715*, *RD-2849* and *BH- 902*.

Hisar

The amount of rainfall received over Hisar was 37 mm (177% large excess) during 01 October - 01 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (02 - 08 December 2022 and 09 - 15 December 2022) over Hisar is no rainfall for week-1 and week-2.

- Due to dry and clear weather and slightly fall in temperature, farmers are advised to complete the sowing of *rabi* season crop and apply the requirement-based irrigation in existing vegetable crops and monitor for insect-pests.

Disclaimer:

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