



National Agromet Advisory Service Bulletin

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)**

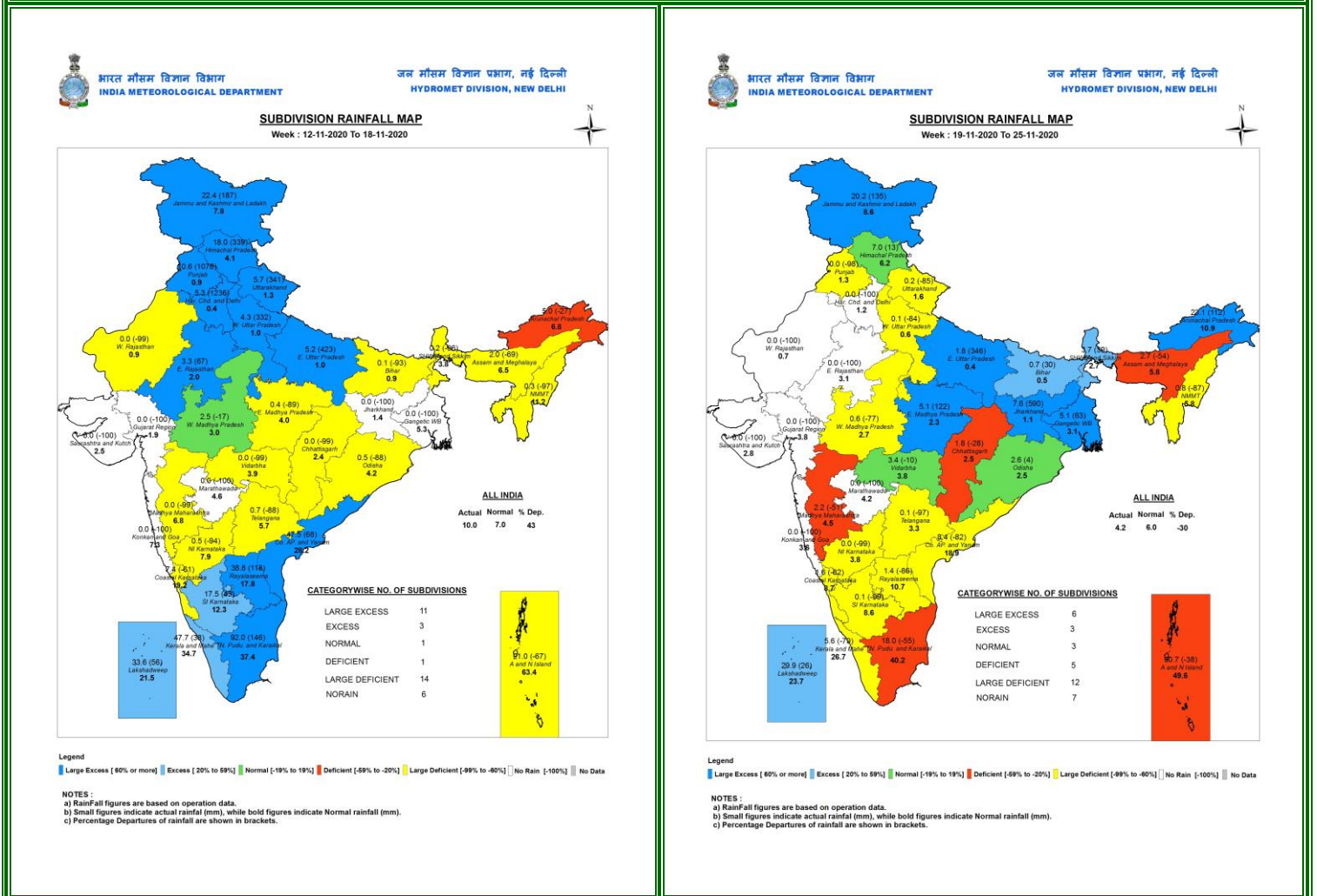
&

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

Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)

Realized Rainfall

(12 - 25 November, 2020)



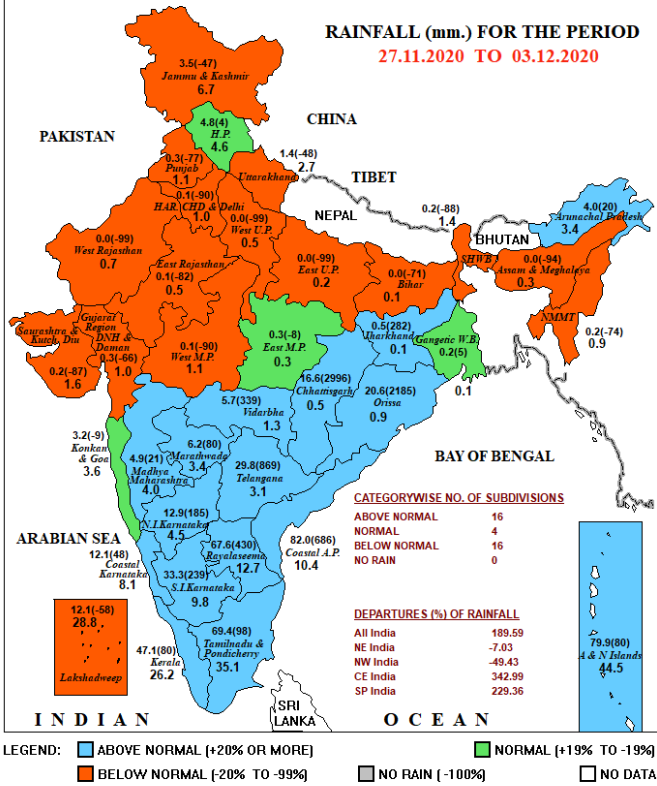
- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, East Uttar Pradesh and Andaman & Nicobar Islands
- Normal or above normal rainfall occurred in either of the two weeks in Uttarakhand, West Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Arunachal Pradesh, South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep
- Below Normal, rainfall/no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC – 25 November) (27 November - 10 December, 2020)

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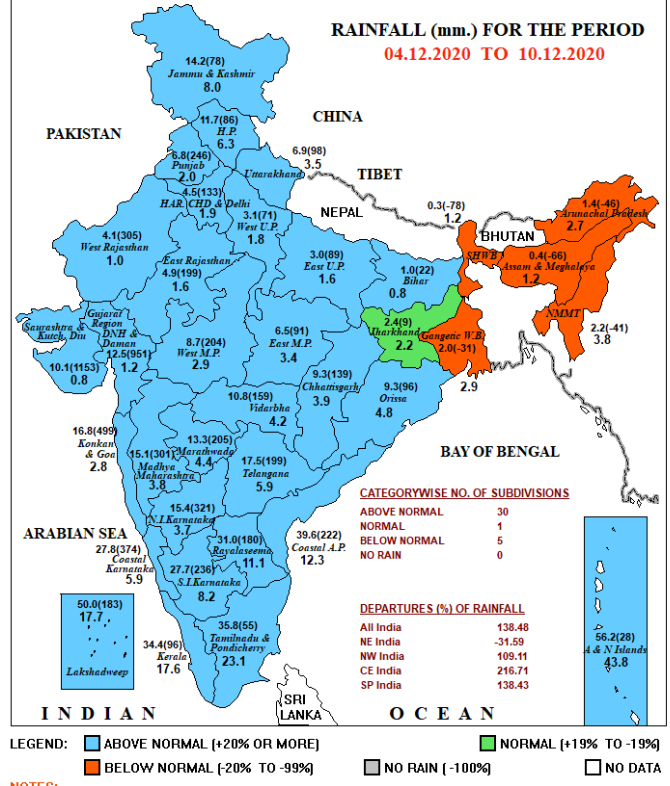
Rainfall Forecast Map - Normal RF Based Categories



NOTES:
 (a) Rainfall figures are based on MME Forecast data.
 (b) Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.).
 Percentage Departures of Rainfall are shown in Brackets.

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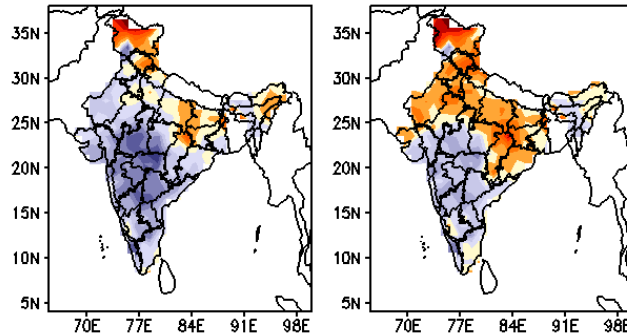
- **Week-1 (27.11.2020 to 03.12.2020) and Week-2 (04.12.2020 to 10.12.2020):** Rainfall over Tamilnadu, east coast (Coastal Andhra Pradesh), south Chhattisgarh, south Odisha will be active in week 1. In Week 2, the south peninsula will remain active.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC – 25 November)
(27 November - 10 December, 2020)**

MME forecast Tmax anomaly (Deg C)

(Week1: 27Nov–03Dec)

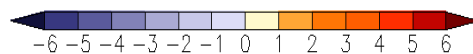
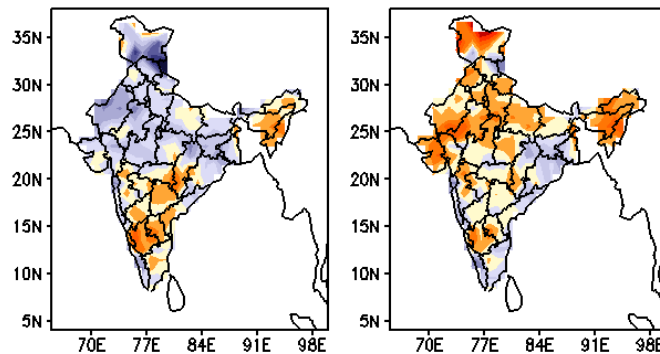
(Week2: 04Dec–10Dec)



MME forecast Tmin anomaly (Deg C)

(Week1: 27Nov–03Dec)

(Week2: 04Dec–10Dec)



Maximum Temperature (Tmax)

- **Week-1 (27.11.2020 to 03.12.2020) and Week-2 (04.12.2020 to 10.12.2020):** Tmax will be mostly below normal in week-1 except some parts of Indo-Gangetic belt. In week-2, Tmax will be above normal over northwest India, northern India and also eastern parts of India.

Minimum Temperature (Tmin)

- **Week-1 (27.11.2020 to 03.12.2020) and Week-2 (04.12.2020 to 10.12.2020):** Minimum temperature will be below normal over North West India in week 1. In week-2, it is expected to be above normal over northern India and northwest India.

Strategic Agricultural Planning based on rainfall during next two weeks till 10 December 2020

Agro-met Advisories

Kerala

Amount of rainfall received over Kerala is 2539.4 mm (2% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast for next two weeks (27 November - 03 December and 04 - 10 December 2020) is above normal for week-1 and week-2.

- Due to increase in temperature, there is a chance of crack development in tomato fruits. It is advised to provide proper shade to protect the crop from the direct sunlight.
- For the management of leaf spot disease in bhindi, it is advised to spray Trichoderma at 20g per litre or Mancozeb at 3g per litre or Tebuconazol at 1ml per litre of water.

Tamil Nadu

Amount of rainfall received over Tamil Nadu is 719.5 mm (5% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast for next two weeks (27 November - 03 December and 04 - 10 December 2020) is above normal for week-1 and week-2.

- Under the prevailing weather conditions, farmers are advised to monitor fall army worm incidence in maize. If incidence is noticed, spray Azadirachtin 1 EC @ 2 ml/litre or Thiodicarb 75 WP @ 2 g/litre or Emamectin benzoate 5 SG @ 0.4 g/litre or Spinetoram 12 SP @ 0.5 ml /litre of water.
- Present weather condition is favorable for thrips incidence in cotton. It is advised to spray Imidacloprid 200 SL @ 100 ml or Methyl demeton 25 EC 500ml/ha or Dimethoate 30 EC 500ml/ha or NSKE 5% @ 2 kg/ha.

Maharashtra

Rainfall received over Madhya Maharashtra is 1124.2 mm (33% excess), Marathwada is 972.6 mm (28% excess), Vidharbha is 903.1 mm (-11% deficit) and Konkan region 3904.5 mm (30% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast for next two weeks (27 November - 03 December and 04 - 10 December 2020) over Madhya Maharashtra, Vidharbha and Marathawada is above normal and normal over Konkan for week-1 and above normal over Madhya Maharashtra, Konkan, Vidharbha and Marathwada for week-2.

Madhya Maharashtra

- Under prevailing weather conditions, there is a chance of army worm in sorghum and other *rabi* crops. It is advised to spray Quinolphos 25 E.C. @ 15-20 ml in 10 litres of water.

Konkan

- Due to chance of increase in wind speed, it is advised for earthing up and provision of

mechanical support to newly planted fruit orchards and vegetable crop.

- Present weather condition is congenial for tea mosquito bug and thrips incidence in cashewnut. It is advised to spray Profenophos 50% EC @10 ml per 10 litres of water.

Marathwada

- For management of leaf spot diseases in turmeric crop, it is advised to spray Azoxystrobin 18.2 % + Difenconazole 11.4 % SC @ 10 ml per 10 litres of water.

Vidharbha

- Due to cloudy weather and decrease in night time temperature, there is a chance of pod borer incidence in pigeonpea. To manage, it is advised to spray 5% NKSE or Azadirachtin 300 ppm @ 50 ml per 10 litres of water or Azadirachtin 1500 ppm @ 25 ml or Quinolphos 25% EC @ 20 ml or Thiodicarb 75% WP @ 20 g per 10 litres of water.

Hisar

Amount of rainfall received over Hisar is 386.2 mm (-16% deficit) during 01 June 2020 - 26 November 2020. The extended range rainfall forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) over Hisar is below normal for week-1 and above normal for week-2.

- Due to anticipated weather condition, farmers were advised to withhold sowing of wheat.
- There is a higher chance of decrease in night temperature. Therefore, it is advised to keep the animals under shed and clean around to control fly and mosquitos in cattle shade.

Karnataka

Rainfall received during 01 June 2020 - 26 November 2020 over South Interior Karnataka is 999.0 mm (15% excess) and North Interior Karnataka is 916.4 mm (46% excess). The extended range weather forecast for next two weeks (27 November - 03 December and 04 - 10 December 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and week-2.

North Interior Karnataka

- Due to chances of light rainfall, farmers are advised for sowing of chickpea and wheat crops.
- Farmers are advised to vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septicaemia.

South Interior Karnataka

- Due to chance of cloudy and rainy weather conditions, farmers are advised to postpone the harvesting, sun drying and winnowing of *kharif* crops like ragi, maize and groundnut.
- Under prevailing weather conditions, it is advised to postpone the insecticide spraying operation in horticulture crops /orchard crops and agricultural crops.

Uttar Pradesh

Rainfall received during 01 June 2020 - 26 November 2020 over East Uttar Pradesh 792.9 mm (-10% deficit) and West Uttar Pradesh is 459.7 mm (-38% deficit). The extended range weather forecast for next two weeks (27 November - 03 December and 04 - 10 December 2020) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and above normal for week-2.

Western Uttar Pradesh

- Present weather condition is optimum for sowing of potato. Recommended varieties are Kufri chandramukhi, Kufri bahar, Kufri badshah, Kufri anand, Kufri lalima, Kufri surya, Kufri chipsona-1, Kufri chipsona-3 and Kufri satluj.
- Due to the chance of no rainfall, farmers are advised to harvest the mature paddy crop.

Eastern Uttar Pradesh

- Intercultural operation is advised to check evaporation losses.
- Under the prevailing weather conditions, sowing of chickpea, mustard, potato, pea and other *rabi* vegetables is advised.

Jammu

Amount of rainfall received over Jammu is 426.0 mm (-32% deficit) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Jammu is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to continue the sowing of wheat with varieties PBW-644, WH-1080 and PBW-396 for rainfed areas and PBW-550, DBW-16, Raj-3077, RSP-303, WH-1105, HD-2987 under irrigated area.
- For the management of saw fly in turnip/carrot crop, it is advised to spray Malathion/Cypermethrin @ 1ml/litre water during clear weather.

Chhattisgarh

Amount of rainfall received over Chhattisgarh is 1323.6 mm (9% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Chhattisgarh is above normal for week-1 and week-2.

- Under prevailing weather condition, transplanting of tomato, brinjal, chilli and cauliflower is advised.
- Under prevailing weather conditions, sowing of mustard is advised with recommended varieties Pusa Jai Kisan, Pusa Bold, Boon, Varuna, Kranti, Chhattisgarh Mustard.

West Bengal

Amount of rainfall received over West Bengal is 1141.5 mm (-14% deficit) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over West Bengal is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of attack of black-rot of crucifers in the cabbage and cauliflower. To control, it is advised to spray 1g Streptocycline in 10 litres of water.

Odisha

Amount of rainfall received over Odisha is 1307.0 mm (2% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Odisha is above normal for week-1 and week-2.

- Under prevailing weather condition, there is a chance of aphid infestation in early sown mustard crop. To manage, it is advised to keep yellow sticky traps @ 8 traps per acre or spray Thiamethoxam 25% WG @ 40 g/acre or Acetamiprid 20% SP @ 50 g/acre in 200 litres of water.
- For the management of leaf webber and pod borer in red gram crop, it is advised to spray Chlorpyrifos 50% + Cypermethrin 5% EC @ 400 ml/acre or Profenophos 50% EC @ 400 ml/acre.

Assam

Amount of rainfall received over Assam is 2361.5 mm (21% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Assam is below normal for week-1 and week-2.

- Due to favorable weather, there is a chance of pod borer in green gram and black gram crop. Farmers are advised to spray Emamectin Benzoate 5% SG @ 5 g/10 litres water to control the pest infestation.
- Prevailing weather condition is also congenial for cut worm infestation in *rabi* maize. To control, it is advised to apply Malathion @ 3.3 kg/bigha as a foliar treatment on seedlings.

Bihar

Amount of rainfall received over Bihar is 1302.3 mm (20% excess) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Bihar is below normal for week-1 and above normal week-2.

- Prevailing weather condition is congenial for sowing of wheat with varieties PBW-343, PBW-

443, K-9107, HD-2733, HD-2824, HUW-206, HUW-468, K-307, CBW-38, DBW-39.

- Prevailing weather condition is also congenial for planting of Potato. Recommended varieties for north Bihar region are Kufri jyoti, Kufri ashoka, Kufri chandramukhi, Kufri badhsha, Kufri lalima, Kufri sinduri, Kufri arun, Kufri anand, Kufri pusker, Rajendra alu 1, Rajendra alu 2 and Rajendra alu 3.

Madhya Pradesh

Amount of rainfall received over Madhya Pradesh is 1063.1 mm (-3% deficit) during 01 June 2020 - 26 November 2020. The extended range weather forecast provided for next two weeks (27 November - 03 December and 04 - 10 December 2020) on rainfall over Madhya Pradesh is normal for week-1 and above normal for week-2.

- Farmers are advised to prepare the fields for sowing of wheat crop under irrigated conditions.
- Due to anticipated light rainfall situation and lowering of air temperature, it is advised to keep rice surface litter on the floor of poultry shed to protect the birds from low temperature and absorption of extra moisture.

Disclaimer:

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