



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 08 October 2024**

आधारित/**based on**

विस्तारित अवधि मौसम पूर्वानुमान/**Extended Range Weather Forecast (ERFS)**

वैधता/**Validity: 04 October – 17 October 2024**

जारीकर्ता/**Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

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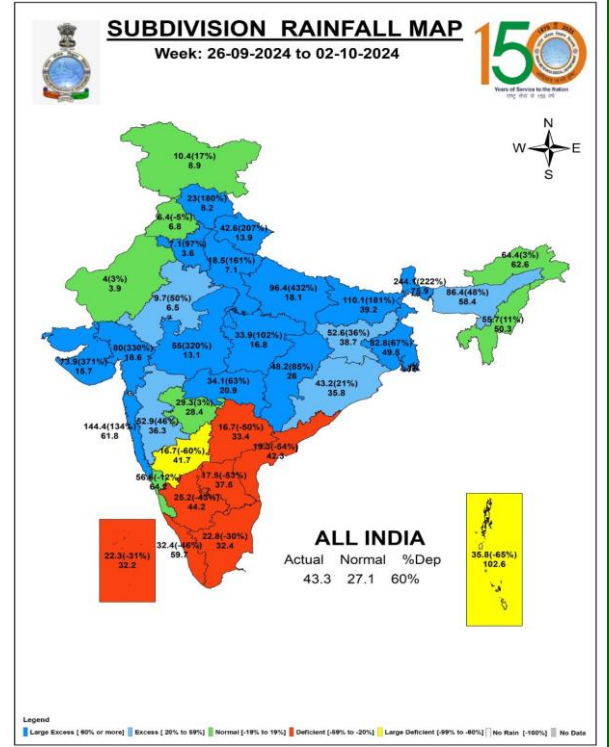
India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

वास्तविक वर्षा तथा विस्तारित अवधि पूर्वानुमान
Realized Rainfall and Extended Range Forecast
 (वर्षा और तापमान)
 (Rainfall and Temperature)

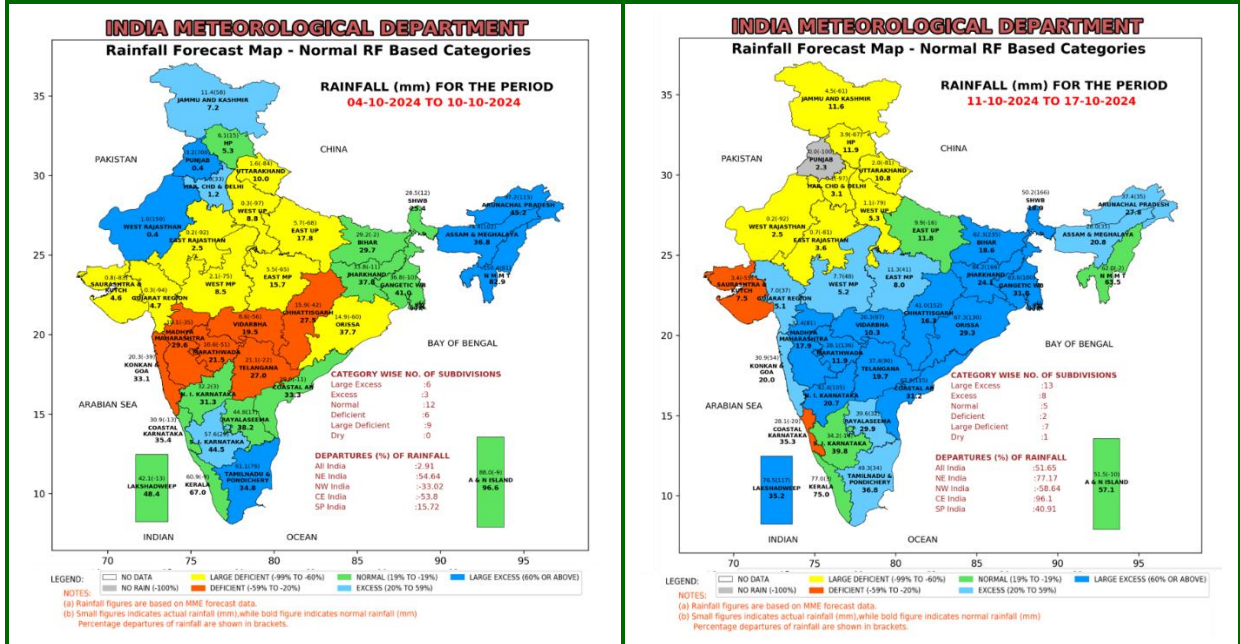
Realized Rainfall
 (19th September to 02nd October, 2024)



- Normal or above normal rainfall occurred in both the weeks over West Uttar Pradesh, Odisha, Maharashtra and Coastal Karnataka.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, East Uttar Pradesh, Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), Rajasthan, Gujarat State, Madhya Pradesh, Chhattisgarh, Telangana, Andhra Pradesh & Yanam, North Interior Karnataka and Andaman & Nicobar Islands.
- Below Normal rainfall occurred in both the weeks over South Interior Karnataka, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 02nd October, 2024) (04th to 17th October, 2024)



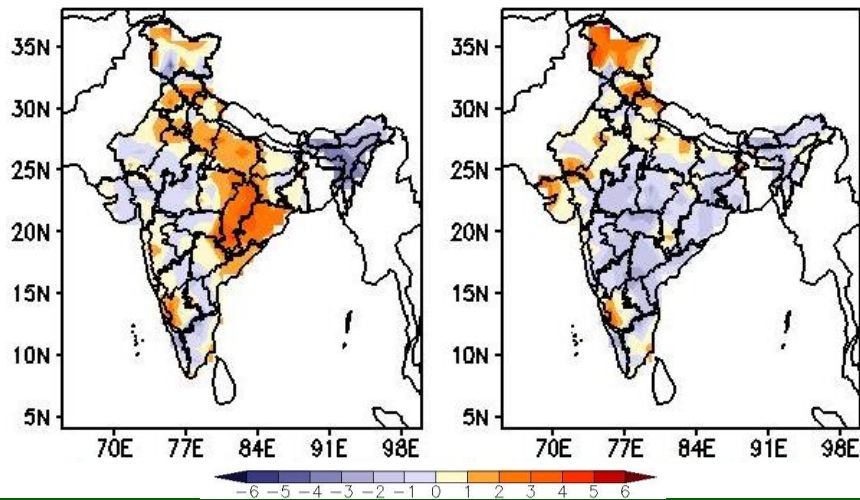
- **Week 1 (04.10.2024 to 10.10.2024):** Rainfall is likely to be above normal over Northeast India and South India.
- **Week 2 (11.10.2024 to 17.10.2024):** Rainfall is likely to be above normal over East India, Chhattisgarh, Coastal Andhra Pradesh, Telangana, Madhya Maharashtra, Marathwada and North Interior Karnataka.

**Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 02nd October, 2024)
(04th to 17th October, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 04Oct-10Oct)

(Week2: 11Oct-17Oct)



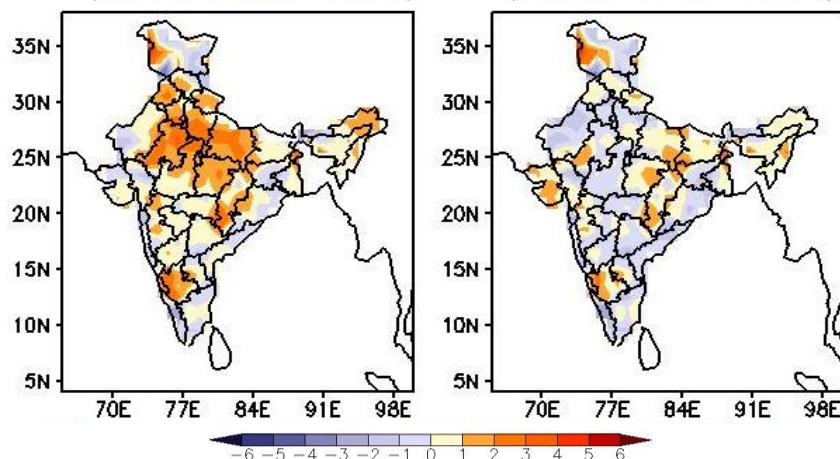
Maximum Temperature (Tmax)

- **Week 1 (04.10.2024 to 10.10.2024):** Maximum temperature is likely to be above normal over Odisha, Chhattisgarh, many parts of Northwest India, Karnataka and Coastal Andhra Pradesh.
- **Week 2 (11.10.2024 to 17.10.2024):** Maximum temperature is likely to be above normal over North India and parts of Rajasthan, Gujarat and Karnataka. It is likely to be below normal over Central and East India.

MME forecast Tmin anomaly (Deg C)

(Week1: 04Oct-10Oct)

(Week2: 11Oct-17Oct)



Minimum Temperature (Tmin)

- **Week 1 (04.10.2024 to 10.10.2024):** Tmin is likely to be above normal over most parts of the Country.
- **Week 2 (11.10.2024 to 17.10.2024):** Tmin is likely to be above normal over Northeast India, Bihar, East Uttar Pradesh, Karnataka and Saurashtra & Kutch.

Strategic Agricultural Planning based on rainfall till 17 October 2024

Agromet Advisories

Kerala

27 mm (-53% deficit) rainfall was received over Kerala from 01 October to 06 October 2024. The extended range weather forecast (rainfall) for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) is normal rainfall for week 1 and week 2.

- *Virippu* paddy crop is in harvesting stage. The crop, which attained maturity stage is advised to harvest as early as possible.
- Under prevailing weather conditions, there is a chance of dieback appearing in mango trees. To control this, prune the diseased twigs 3 inches below the affected area. Apply Bordeaux paste (10%) or copper oxychloride @ 10 g per litre of water to the pruned sections.
- Propping of the banana plants is recommended, and strengthening of vegetable pandals is advised. Pesticides should not be applied during rainy periods.

Tamil Nadu

38 mm (50% excess) rainfall was received over Tamil Nadu from 01 October to 06 October 2024. The extended range weather forecast (rainfall) for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) is a large excess rainfall for week 1 and excess for week 2.

- Due to prevailing weather conditions there is a possibility of leaf miner infestation in groundnut crop which is at the vegetative stage. To control, set light trap @ 1/ha between 8 and 11 pm at ground level and spray quinalphos 25 EC @560 ml/acre.
- Since large excess rainfall is forecasted during this week, farmers are advised to postpone the irrigation of paddy crops.
- Prevailing wind speed may damage the crop. Hence, farmers are advised to do propping. Earthing up should be practiced to avoid lodging.

Karnataka

45 mm (22% excess) rainfall over South Interior Karnataka; 27 mm (56% deficit) rainfall over Coastal Karnataka and 24 mm (-32% deficit) rainfall over North Interior Karnataka was received from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) is normal rainfall over Coastal Karnataka, North Interior Karnataka and excess rainfall over South Interior Karnataka for week 1 and; deficit rainfall over Coastal Karnataka, large excess rainfall over North Interior Karnataka and normal rainfall over South Interior Karnataka during week 2.

South Interior Karnataka

- Mulching is recommended to conserve soil moisture in standing crops.
- Continue sowing operation due to sufficient soil moisture available in crop fields.
- Intercultural operation in Finger millet is recommended.
- For Biological control of pod borer insect in Redgram 200 LE/acre HANPV 400 litre with teepol (1ml/litre). Pheromone traps for *Helicoverpa armigera* 12/ha

- If wilt disease is noticed in redgram field then drenching of Carbendazim 50 WP 2 g/litre of water is advised and simultaneously remove and burn the infected wilt plants from the field.
- Wind speed is high; therefore, it is advised to postpone the spraying operation in agricultural and horticultural crops and provide.
- Staking is advised to support banana and vegetable crops.

North Interior Karnataka

- Since good rainfall was received during the previous week and there is a chance of moderate rainfall this week, it is advised that proper drainage for excess water is provided.
- Take up sowing of late *rabi* crops as soon as the condition permits depending on the soil type.
- Due to high cloudy conditions and rainfall, there is a chance of the occurrence of Anthracnose disease in chilli crop. Spraying of thiophanate methyl @ 1 gram/liter of water is advised.

Andhra Pradesh

39.3 mm (16% excess) rainfall was received over Rayalaseema and 10.4 mm (-76% deficit) was received over Coastal Andhra from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 Oct - 10 Oct 2024 and 11 Oct - 17 Oct 2024) is normal rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and; excess over Rayalaseema and large excess over Coastal Andhra Pradesh for week 2.

- In Rayalaseema region of Andhra Pradesh, present dry weather conditions prevailed and farmers are advised to go for spraying of Potassium Nitrate or 19:19:19 @ 5-10 gm per litre of water in groundnut (pod formation stage).
- Current weather conditions are congenial for semi-looper and botrytis incidence in castor. Farmers are advised to spray Emamectin benzoate @0.4 g and carbendazim @1 g/liter of water.
- Present weather conditions may lead to Zinc deficiency in rice crops, spraying of Zinc sulphate @ 0.2% (2 g/litre of water).

Odisha

7.6 mm (-77% large deficit) rainfall was received over Odisha from 01 Oct - 06 Oct 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 Oct - 10 Oct 2024 and 11 Oct - 17 Oct 2024) is large deficit rainfall over Odisha for week 1 and large excess rainfall for week 2.

- Based on a day's weather forecast, farmers are advised to conduct agricultural operations like (irrigation, spraying, intercultural operation, etc.) with proper care. Sowing of green fodder should be advised in moist soil to avail proper diet to animals.

- Maintain about 5-10 cm of standing water during the panicle initiation stage in paddy.
- Keep your crop field free from weeds to minimize the incidence of diseases and pests.
- In uplands prepare seedlings for tomato and early variety cauliflower.
- Farmers should avoid excess use of nitrogenous fertilizer on crops because it may extend vegetative growth and attract various insect pests and diseases.
- If the poultry bird is 3-4 weeks old then go for vaccination against Ranikhet disease.

Maharashtra

10.2 mm (-61% large excess) rainfall over Madhya Maharashtra, 11.0 mm (-56% deficit) Marathwada, 7.2 mm (-84% large excess) Konkan, and 10 mm (-90% large excess) rainfall over Vidarbha was recorded from 01 Oct to 06 Oct 2024. The extended range weather forecast (rainfall) for the next two weeks (04 Oct- 10 Oct 2024 and 11 Oct- 17 October 2024) is large excess rainfall over Konkan, Marathwada, Madhya Maharashtra and Vidarbha for week 1; and normal rainfall over Konkan and excess rainfall over Madhya Maharashtra, Marathwada and Vidarbha for week 2, respectively.

Parbhani

- Continue harvesting and threshing of matured soybean, sorghum and pearl millet.
- Undertake sowing of safflower and rainfed chickpea.
- If fruit drop is observed in a pomegranate orchard, spray chelated zinc @ 5 g + Chelated iron @ 5 g + Gibberellic Acid @ 10 ml + 00:00:50 @ 10 g per liter of water.
- To control fall armyworm in *kharif* sorghum, spray Emamectin Benzoate 5 % @ 4 g or Spinetoram 11.7 SC @ 4 ml per 10 litres of water.
- To control stem borer in sugarcane, spray Chlorpyrifos 20% @ 20 ml or Chlorantraniliprole 18.5 %SC @ 4 ml per 10 liters of water.

Vidarbha

- Continue harvesting of matured *kharif* soybean, maize, sorghum and keep harvested produce at safer places.
- Undertake intercultural operations in pigeon pea, sesame and orchards.
- Undertake sowing of rabi rainfed safflower (*Bhima*, *AKS-207*, *PKV-Pink*, *Nari-6*), rainfed linseed (*PKV-NL-260*) and rainfed chickpea (*Jaki 9218*, *PDKV Kanchan*, *Vijay*) and rabi sorghum (*PKV Kranti*, *Phule Yashoda*, *Maldandi 35-1*).
- To minimize the shedding of squares and flowers of cotton, undertake foliar spray of alpha NAA 4.5% SL@ 4 ml per 10 litres of water.
- If reddening is observed in cotton, undertake foliar spray of 1% urea and 1% Magnesium sulphate.

- Due to congenial weather wilting/blight symptoms are observed in *kharif* pigeon pea, for control undertake to drench with Copper oxychloride 50% WP @ 25 g or Captan 75% WP @ 20 g per 10 litres of water.

Madhya Maharashtra

- Maintain 10 cm water level in rice fields (flowering stage).
- Continue harvesting of matured soybean, maize, onion and pearl millet. Keep the harvested produce at safer places.
- Under prevailing weather conditions, farmers are advised to sow *rabi* safflower, sorghum, and rainfed chickpea at optimum soil moisture conditions.
- To control blight and blast infestation in rice, spray Copper oxychloride @ 25 g per 10 litres of water.

Konkan

- Continue harvesting of early maturing rice varieties in Sindhudurg district and keep the harvested produce at safer places.
- Maintain optimum 5 cm water level in mid-late and late rice varieties (grain filling stage).
- If the incidences of tikka disease are noticed in groundnut, apply Carbendazim @ 10 g or Dithane M45 @ 20 g per 10 liters of water.

Gujarat

2.2 mm (-73% large deficit) rainfall was received over Gujarat from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) over Gujarat is deficit for week 1 and excess for week 2.

- Drain the standing water from the paddy field 10-15 days before the harvesting. Harvest the crop during clear sky. After harvesting keep the harvested produce in the threshing yard for sundry to remove moisture before storage. After harvesting land should be plough immediately for *rabi* crops.
- New plantation of sugarcane crops is advised after proper land preparation with sufficient moisture conditions. Apply FYM/ Compost at the time of ploughing. Select a recommended healthy planting material.
- To control of hairy caterpillar and semi-looper in castor, spray Malathion 50 EC @ 60 ml or Emamectin benzoate 5 WG @ 7.5 g in 15 litres of water.

Chhattisgarh

2.5 mm (-88% large deficit) rainfall was received over Chhattisgarh from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) over Chhattisgarh is deficit rainfall for week 1 and large excess rainfall for week 2.

- Harvest the *kharif* vegetables like bitter melon, gourd, bitter melon, and okra, etc. After this, start field preparation for rabi season vegetables for production and sow seeds for nursery.
- Transplanting of mid-season cauliflower vegetables is advised to complete. Root treatment is recommended with fungicide and systemic insecticide before planting.
- Weeding is advised in ginger, turmeric, elephant yam, and colocasia crops and repair the drainage channel before rainy season.
- Prepare nursery for vegetable crops that provide high profit in *rabi* season like cauliflower, broccoli, beetroot, late cucumber, and late bitter melon crops in pro-tray or sow the matured seeds after preparation of the field.

Madhya Pradesh

1.6 mm (-89% large deficit) rainfall was received over East Madhya Pradesh from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 Oct - 10 Oct 2024 and 11 Oct - 17 Oct 2024) over Madhya Pradesh is deficit rainfall for week 1 and excess rainfall for week 2.

- Start field preparation for planting garlic and potato, and sowing of early peas and onions. Undertake field preparation for sowing of toria and mustard. Start harvesting the soybean crop (immediately after a change in pod color) in order to minimize the yield losses and store it in a safe place.
- There is a possibility of an attack of fruit fly and red pumpkin beetles in cucurbit crops, spray Quinalphos 25 EC @ 1.5 ml per litre of water.

Assam

119 mm (168% large excess) rainfall was received over Assam from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 October - 10 October 2024 and 11 October - 17 October 2024) over Assam is a large excess for week 1 and week 2.

- The optimum time of sowing of *rabi* maize is middle of September to the middle of October. Sowing may be delayed up to middle of November, under exceptional circumstances, but these results in delayed maturity. No sowing is advised after November 15.
- Continue transplanting vegetable seedlings in the main field. Carry out earthing up in sugarcane.
- As Sali rice is a maximum tillering stage, cloudy weather and increasing temperature favours attack of leaf folder in the field. If there is a severe infestation, spray Quinalphos 25 EC @ 2 ml /liter of water during clear weather conditions.
- Due to favourable weather appearance of Sigatoka leaf spots may be observed in the Banana crops. Spraying of Carbendazim @ 0.5g/liter of water is advised and repeat the spray at 15-day intervals if needed.

West Bengal

40 mm (3% excess) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 49 mm (-7% deficit) from 01 Oct to 06 Oct 2024. The extended range weather forecast (rainfall) for the next two weeks (04 Oct - 10 Oct 2024 and 11 Oct - 17 Oct

2024) is normal rainfall over Gangetic West Bengal and large excess rainfall over Sub-Himalayan West Bengal during week 1 and week 2.

- To check loss from lodging in rice due to heavy rainfall farmers are advised to harvest the early transplanted *kharif* rice. Low lying areas where there is a stagnation of water in rice fields and had not achieved Anthesis till now, foliar application of nitrogenous fertilizers may enhance late transplanted rice vegetative growth, enhancing their resilience towards rots and other abiotic stresses.
- Well-nourished okras is advised to harvest immediately to avoid loss from pest infestation. Drainage channels should be cleared at regular intervals to avoid any blockage.
- It is the optimum time for jute retting. Use of CRJAF-SONA @25-30kg for 1ha harvest of jute. It should be applied during the preparation of “jak” on each layer of the jute bundles.

Jharkhand

5.5 mm (-77% large deficit) rainfall received over Jharkhand from 01 October to 06 October 2024. The extended range weather forecast (rainfall) provided for the next two weeks (04 Oct - 10 Oct 2024 and 11 Oct- 17 Oct 2024) over Jharkhand is normal for week 1 and large excess for week 2.

- Transplanting of brinjal, tomato, chilli and early cauliflower on ridge is advised. Proper drainage is also advised in the fields as a forecast of large excess rainfall.
- In view of the rains, proper drainage of excess water in the Marua crop is advised. In case of water logging, stem rot can be seen. To prevent this disease, farmers should apply copper oxychloride @ 0.25% around the plant.
- Transplanting of brinjal, tomato, chilli, and early cauliflower on ridge is advised for those farmers whose seedlings are ready. Proper drainage should be done in the fields.

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