



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

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

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AICRP on Agro-Meteorology (AICRPAM)

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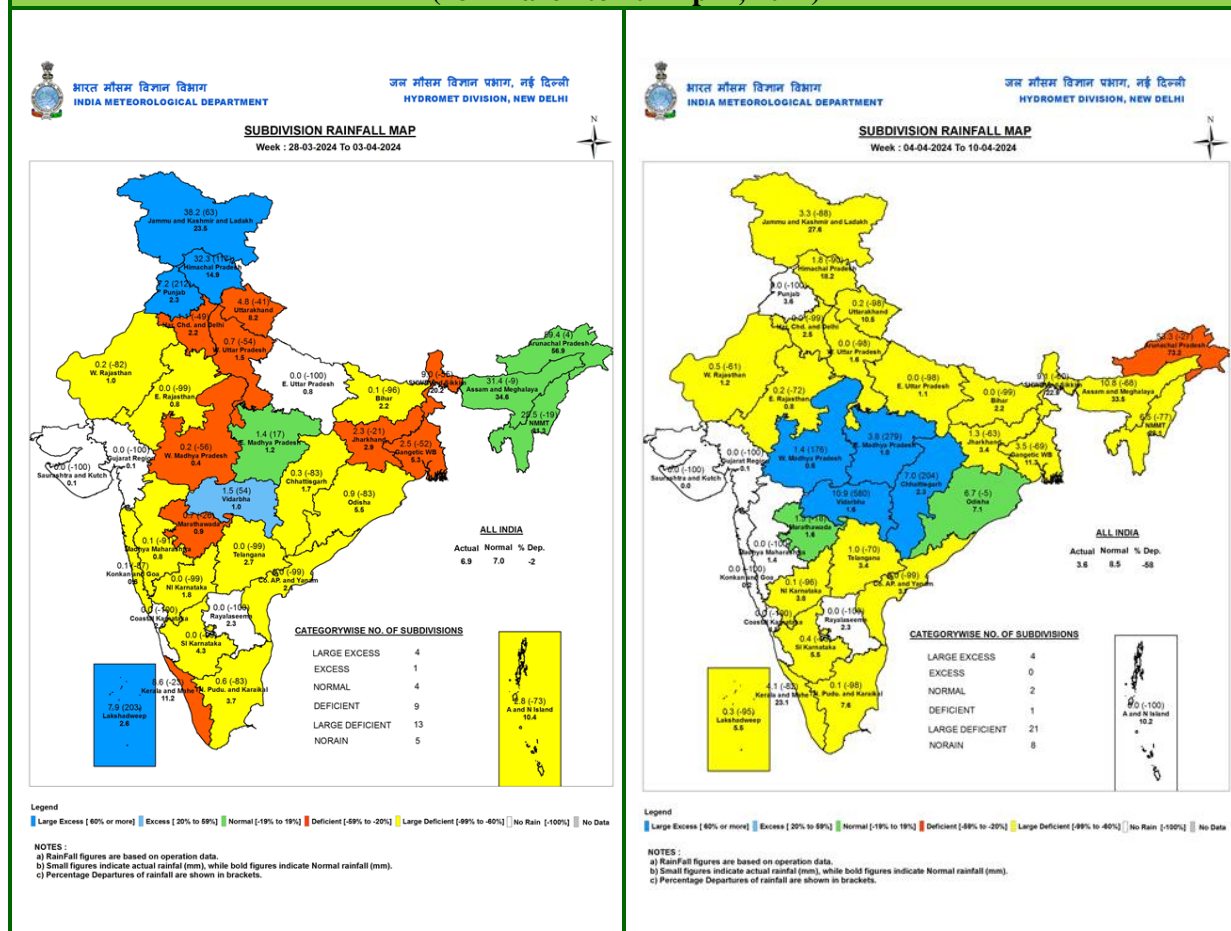
पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast

Realized Rainfall

(28th March to 10th April, 2024)



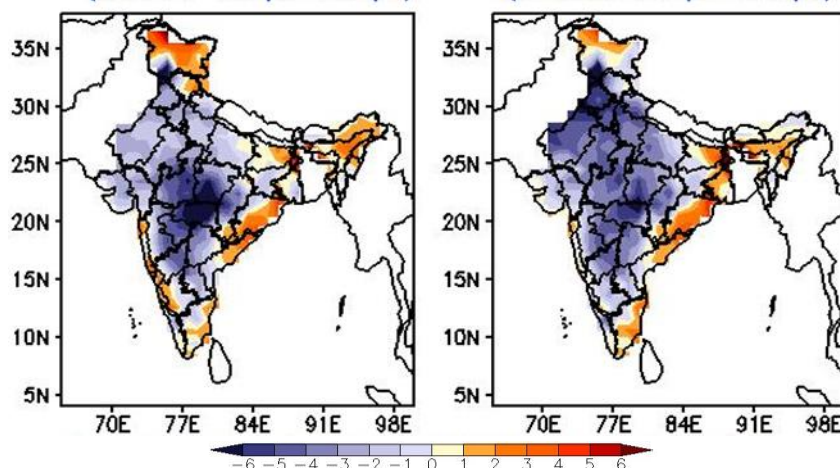
- Normal or above normal rainfall occurred in both the weeks over East Madhya Pradesh and Vidarbha.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Punjab, Assam & Meghalaya, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), West Madhya Pradesh, Chhattisgarh, Odisha, Marathwada and Lakshadweep.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 10th April, 2024)
(12th to 25th April, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 12Apr–18Apr)

(Week2: 19Apr–25Apr)



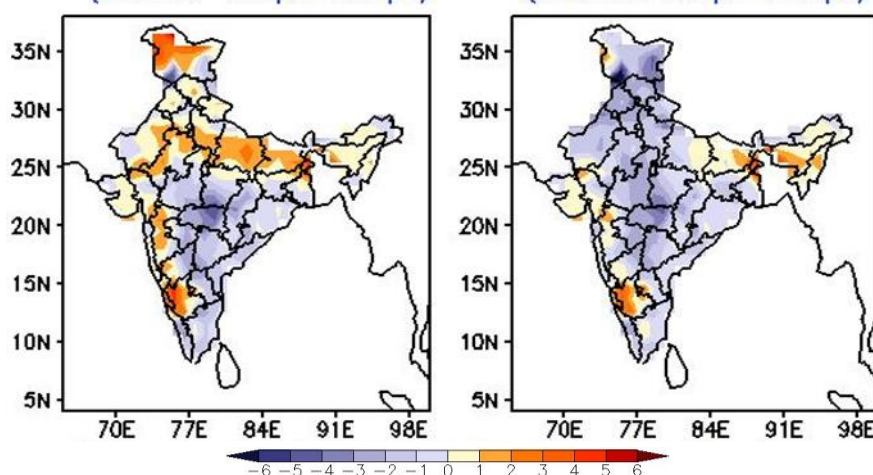
Maximum Temperature (Tmax)

- **Week 1 (12.04.2024 to 18.04.2024):** Maximum temperature is likely to be below normal over most parts of the country. However, it is likely to be above normal over Jammu & Kashmir, Tamil Nadu, Coastal Andhra Pradesh, Odisha, North East India, Bihar, Konkan & Goa and parts of Karnataka.
- **Week 2 (19.04.2024 to 25.04.2024):** Maximum temperature is likely to be below normal over most parts of the country except in Jammu & Kashmir, Bihar, North East India and eastern coastal regions of India.

MME forecast Tmin anomaly (Deg C)

(Week1: 12Apr–18Apr)

(Week2: 19Apr–25Apr)



Minimum Temperature (Tmin)

- **Week 1 (12.04.2024 to 18.04.2024):** Minimum temperature is likely to be above normal over most parts of Northwest India, Bihar, Karnataka, Maharashtra, Gujarat and North East India.
- **Week 2 (19.04.2024 to 25.04.2024):** Minimum temperature is likely to be below normal over most parts of the country. However, it is likely to be above normal over Northeast India, Bihar, Karnataka, Gujarat and Madhya Maharashtra.

Agromet Advisories

Uttar Pradesh

21 mm (63% large excess) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 14 mm (51% excess) during 01 March - 14 April 2024. The extended range weather forecast (rainfall) for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is above normal over Western Uttar Pradesh and Eastern Uttar Pradesh during week 1 and; week 2.

Western Uttar Pradesh

- Due to the forecast of above-normal rainfall during this week, farmers are advised to harvest mature wheat and barley crops as soon as possible and after tying bundles keep it a safe dry place.
- And also advised to postpone irrigation in *zaid* maize, summer vegetable and black gram crops and do weeding at proper moisture level.
- Given the possibility of rain, postpone the sowing of moong. Recommended *zaid* green gram varieties are *Narendra Moong-1*, *Samrat (PDM-139)*, *Malaviya Janapriya (HUM-6)*, *Meha*, *Malaviya Janakalyani*, *Malaviya Jan Chetna*, *Sweta*, *Swati*, *Virat*, *Shikha*, *IPM-2-3*, *IPM-2-14*, *Malaviya Jyoti* etc.

Eastern Uttar Pradesh

- For the control of mango fruit fly, spraying of Imidacloprid 30.5 per cent SC (0.3 ml per litre) and Prophenophos 50 per cent EC. Making a solution (01 ml per litre) in water is advised.
- To control shoot and fruit borer in brinjal and tomato crops, it is advised to collect the infested fruits and buried inside the soil. Installation of pheromone trap @ 2-3 traps per acre is also advised for monitoring of borers. If the pest population increases, spraying of Spinosad 48 EC @ 1 ml /4 litres of water is advised.

Himachal Pradesh

146 mm (2% excess) rainfall was received over Himachal Pradesh during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) over Himachal Pradesh is above normal for week 1 and; week 2.

- Farmers are advised to use anti-hail nets over the apple fruit plants as a hailstorm event is expected this week.
- Farmers are advised to go for sowing of summer vegetables in well-prepared fields with FYM. Soak the seed overnight in water before sowing for better germination.
- Continuously monitoring mango fruit trees is advised to prevent the attack of mealy bugs and mango hoppers. Apply sticky grease band on mango tree trunks/plants to control the upward movement of mango mealy bugs.

Jammu

140 mm (-30% deficit) rainfall was received over Jammu during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) over Jammu is above normal for week 1 and; normal for week 2.

- Due to the chances of rainfall this week, farmers are advised to avoid irrigation in late-sown wheat crops which are at the hard dough stage. If possible, raise artificial shelter belts in the field using plant residue to reduce the speed of the wind.
- Harvest mature pea crop immediately to prevent shattering of pods. Cover the harvested crop with polythene sheets/ Tarpaulin. Do not let rainwater stagnate in fields.

West Bengal

50 mm (13% excess) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 107 mm (6% excess) during 01 March - 14 April 2024. The extended range weather forecast (rainfall) for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week 1; and week 2.

- As there is a forecast of below-normal rainfall, one irrigation may be given to *boro* rice (anthesis stage) this week, if cracking appears in the soil.
- Farmers may apply fertilizers and pesticides this week as below-normal rainfall is forecasted. Irrigation may be also given wherever needed, especially in green gram and summer vegetables.

Jharkhand

37 mm (77% large excess) rainfall was received over Jharkhand during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) over Jharkhand is below normal for week 1 and; week 2.

- Under prevailing weather conditions, farmers are advised to irrigate mango and litchi plants regularly after they bear fruit. To prevent small litchi fruits from falling, spray Planofix with 1 ml per 3 litres of water.
- Farmers are advised to go for earthing up in summer maize which is in the knee height stage. and apply 26-kilogram urea per acre. The third dose of nitrogenous fertilizer is advised to apply @ 26 kg urea per acre in the silk stage in maize crops.
- High temperature followed by intermittent thundershowers is favourable for Brown Plant hopper infestation in rice. If infestation exceeds ETL, it is advised to alter the micro-climate of the rice plant by alternate wetting and drying techniques. If the problem persists, then spray Azadirachtin 0.15% neem seed kernel formulation @ 800 ml in 200 litres of water for one acre.

Odisha

60 mm (80% large excess) rainfall received over Odisha during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) over Odisha is above normal for week 1 and; week 2.

- The high temperature also increases the water requirement of maize crop. Therefore, farmers are advised to irrigate the maize crop and never allow water to remain stagnant for more than six hours in the field.
- High temperatures in day hours may lead to wilting in tomatoes and brinjal. To protect farmers are advised to apply 1 g of Streptocycline in 10 litres of water in the root zone.

- Farmers are advised to spread polythene in irrigation channels to save water wastage during irrigation in sandy and loamy soil.
- Manage the stem borer infestation in rice, by spray Quinalphos 25 EC @ 400 ml/acre or Chlorpyrifos 20 EC @ 500 ml/acre in 200 litres of water

Gujarat

4 mm (556% large excess) rainfall received over Gujarat during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) over Gujarat is above normal for week 1 and; week 2.

- To control fruit dropping in mango trees, it is advised to spray 2 g (20 ppm) Naphthalene acetic acid with 2 kg (2%) urea in 100 litres of water when the fruit is about pea size.
- Under prevailing weather conditions, there is a possibility of the incidence of sucking pests in okra crop. To control incidence, it is advised to spray Neem-based insecticides 10 ml (5 EC) to 60 ml (0.03 EC) or *Verticillium lecanii* powder at evening hours at an interval of 10 days.

Maharashtra

2 mm (-71% large deficit) rainfall over Madhya Maharashtra; 45 mm (233% large excess) rainfall over Vidarbha; 10 mm (-5% deficit) rainfall over Marathwada; and 0.1 mm (-96% large deficit) rainfall over Konkan region was recorded during 01 March - 14 April 2024. The extended range weather forecast (rainfall) for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is above normal over Konkan, Vidarbha, Madhya Maharashtra and Marathwada for week 1 and week 2, respectively.

Parbhani

- As per forecast of light to moderate rain at isolated places, harvesting of mature wheat and safflower crops is advised as early as possible. If threshing is not possible collect and cover the harvested crop with plastic paper. Store the harvested/threshed produce at safe places.
- Due to gusty wind, thunderstorm, hail and rainfall was observed at isolated places in the Marathwada region. farmers are advised to provide mechanical support to newly planted citrus plants

Vidarbha

- Due to the forecast of above-normal rainfall, farmers are advised to harvest the matured earlier sown or timely sown wheat crop as soon as possible and store it at a safer place. For any possibility of sudden rainfall always keep tarpaulin ready to cover harvested produce
- Mulch with crop residue, straw/polythene or undertake soil mulching to conserve soil moisture.
- Farmers are advised to undertake need-based inter-culture operations in groundnut crops to loosen the surface soil and keep the crop weed-free.

Kerala

34 mm (-57% deficit) rainfall received over Kerala during 01 March - 14 April 2024. The extended range weather forecast (rainfall) for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is normal for week 1 and; week 2.

- Since air temperature is increasing, it is a desirable practice to bury fresh or dried coconut husk around the palm to conserve soil moisture. The husk can be buried either in linear trenches taken 3 meters away from the trunk between rows of palms or in circular trenches taken around the palm at a distance of 2 meters from the trunk.
- As the hot weather conditions may increase the infestation of thrips, aphids, and whiteflies on the crops, spray at the top and bottom of the leaves with 2% strength neem oil garlic emulsion on every two weeks.
- Since dry weather conditions is prevailing, there is a chance of mites infestation in banana crop. Apply wettable sulphur 3g/litre of water.

Andhra Pradesh

No rainfall was received over Rayalaseema and 8 mm (-62% deficit) rainfall was received over Coastal Andhra during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is below normal rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and; above normal over Rayalaseema and Coastal Andhra Pradesh for week-2.

- Farmers are advised for summer ploughing to expose pests/pathogens to sunlight and predatory birds.
- Due to prevailing dry conditions along with high temperatures, it is advised to go for foliar application of 25 g Urea + 25 g MOP in 10 litres of water in sugarcane crop before 9 am or after 4 pm.
- Farmers are advised to select and grow high-yielding and drought-tolerant varieties of groundnut like *Kadiri-9*, *Kadiri Harithandhra*, *Anantha*, *Greeshma*, *Abhaya*, *Dharani*, *ICGV91114*, *Kadiri Amaravathi*, *kadiri lepakshi* and *Kadiri Chitravathi*.

Karnataka

5.2 mm (-81% large deficit) rainfall was received over South Interior Karnataka, 5.0 mm (-77% large deficit) Coastal Karnataka and 12 mm (-32% deficit) over North Interior Karnataka during 01 March - 14 April 2024. The extended range weather forecast (rainfall) provided for the next two weeks (12 - 18 April 2024 and 19 - 25 April 2024) is above normal over North Interior Karnataka and Coastal Karnataka and normal over South Interior Karnataka and for week 1 and; above normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-2.

South Interior Karnataka

- Mulching (residual crop residue after harvesting of *rabi* and other crops) and one or two protective irrigation is recommended for mango and other horticultural crops to conserve soil moisture due to high temperatures and dry weather persisting over a long period.

- Under prevailing hot and dry weather conditions, farmers are advised for frequent irrigation for standing horticultural crops due to increasing temperatures day by day. Mulching is also advised to conserve soil moisture due to high temperatures and dry weather persisting over a long period.
- Carry out threshing of the harvested crops, the cereal grains should be dried up to the storage moisture level (11-12 %).
- Periodically water spray during peak hot hours lowers the temperature and consequently reduces the heat load on animals. Maintain proper ventilation for free circulation of air in the sheds and also provide clean drinking water to animals and water troughs regularly cleaned.

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