



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 05 November 2024**

आधारित/**based on**

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

वैधता/**Validity: 01 November – 14 November 2024**

जारीकर्ता/**Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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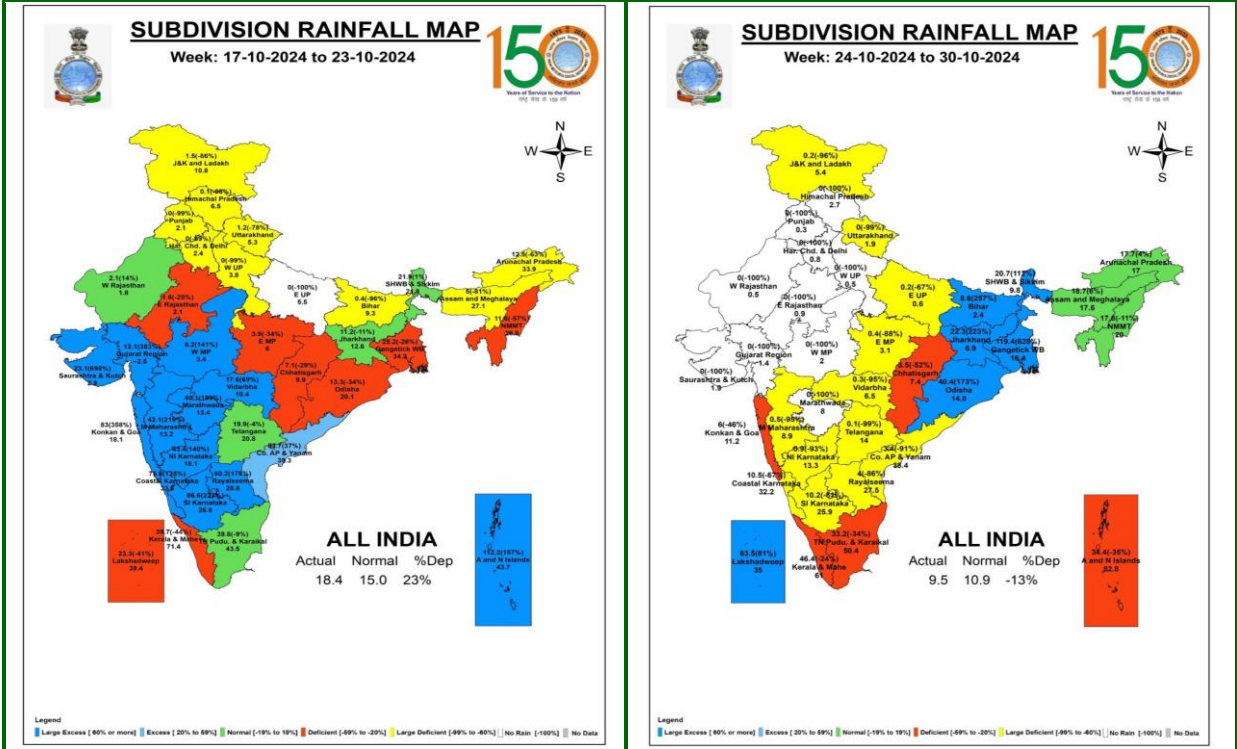
India Meteorological Department (IMD)

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
 (17th to 30th October, 2024)

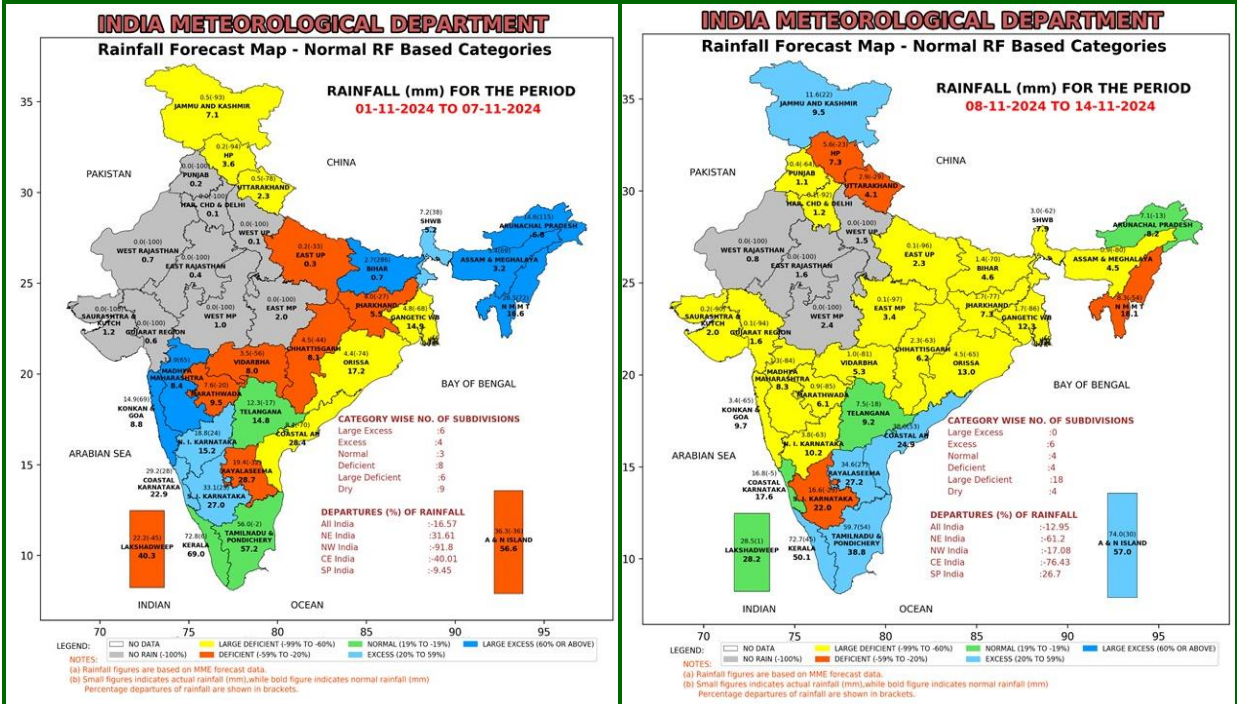


- Normal or above normal rainfall occurred in both the weeks over Jharkhand and Sub-Himalayan West Bengal & Sikkim.
- Normal or above normal rainfall occurred in either of the two weeks over West Rajasthan, West Madhya Pradesh, Odisha, Bihar, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), Gujarat State, Maharashtra, Telangana, Andhra Pradesh & Yanam, Karnataka, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- 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- 30th October, 2024)

(01st to 14th November, 2024)



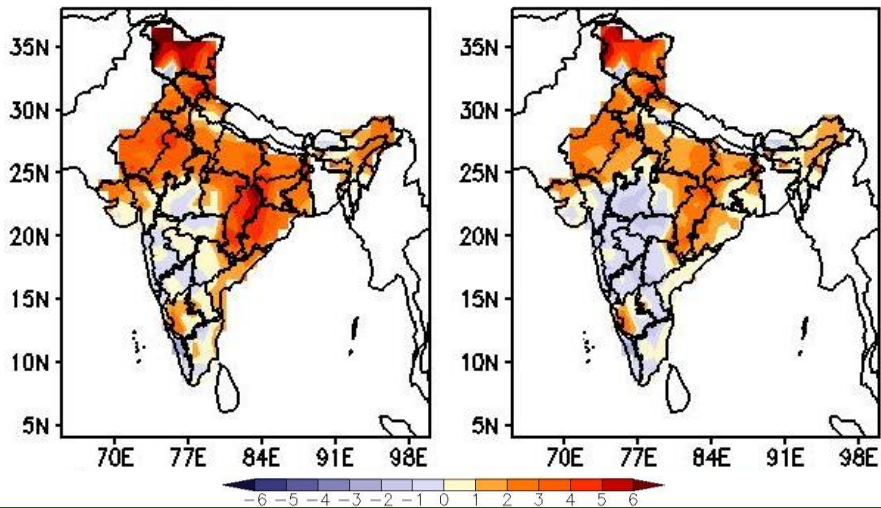
- **Week 1 (01.11.2024 to 07.11.2024):** Rainfall is likely to be normal to below normal over most parts of the country.
- **Week 2 (08.11.2024 to 14.11.2024):** Rainfall is likely over Jammu & Kashmir and most parts of South India.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 30th October, 2024)
(01st to 14th November, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 01Nov–07Nov)

(Week2: 08Nov–14Nov)



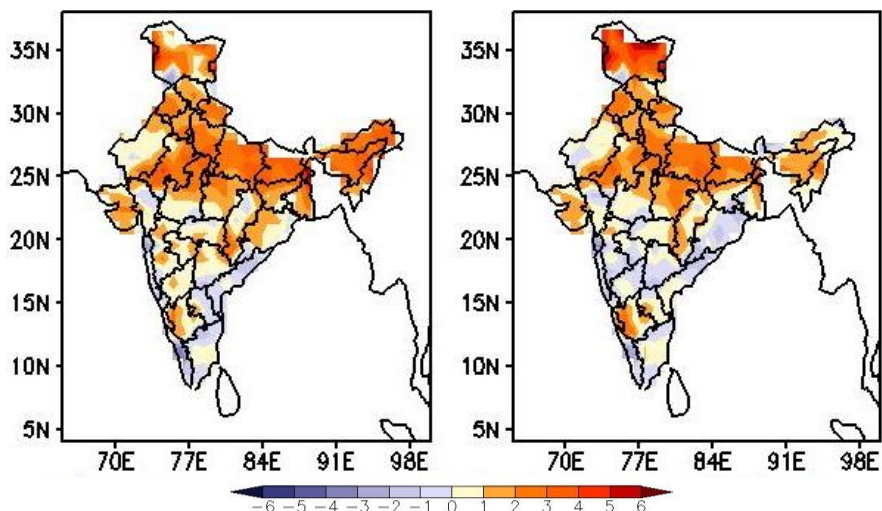
Maximum Temperature (Tmax)

- **Week 1 (01.11.2024 to 07.11.2024):** Maximum temperature is likely to be above normal over Northwest India, East & Northeast India and parts of Central India.
- **Week 2 (08.11.2024 to 14.11.2024):** Maximum temperature is likely to be above normal over Northwest India, East India, Northeast India and Chhattisgarh. It is likely to be below normal over parts of Central India and South Peninsula.

MME forecast Tmin anomaly (Deg C)

(Week1: 01Nov–07Nov)

(Week2: 08Nov–14Nov)



Minimum Temperature (Tmin)

- **Week 1 (01.11.2024 to 07.11.2024):** Minimum temperature is likely to be above normal over most parts of the country.
- **Week 2 (08.11.2024 to 14.11.2024):** Minimum temperature is likely to be above normal over Northwest India, East India and Northeast India.

Strategic Agricultural Planning based on rainfall till 14 November 2024

Agromet Advisories

Kerala

274.6 mm (-17% normal) rainfall was received over Kerala from 01 October to 03 November 2024. The extended range weather forecast (rainfall) for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is normal rainfall for week 1 and week 2.

- There is a chance of leaf folder infestation in Mundakan Paddy. It can be controlled by using egg parasitoid trichograma cards (2CC per acre). Tag the cards in the field. If the infestation is severe, spray Chlorantraniliprole 18.50 % SC @ 3ml or Cartap Hydrochloride 50 % SP@8 ml or Chlorpyrifos 20 % EC@15ml per 10 litres of water.
- First dose fertilization can be done in banana. 65 gram of urea, 325 grams rock phosphate and 110 grams of muriate of potash can be applied to each banana.
- There is a chance of leaf fall in nutmeg. As a prophylactic measure to manage leaf fall in nutmeg, spray 1% Bordeaux mixture or drench the basin. Proper drainage facilities have to be ensured.

Tamil Nadu

237.1 mm (23% Excess) rainfall was received over Tamil Nadu from 01 October to 03 November 2024. The extended range weather forecast (rainfall) for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is a normal rainfall for week 1 and excess for week 2.

- In Irrigated crops (water management stage), Persistent light to moderate rainfall is expected over the next five days and farmers are advised to delay irrigation activities.
- To prevent crop damage from continuous rainfall, farmers are advised to ensure proper drainage systems to avoid water stagnation in the fields. Gap filling and thinning can be carried out to take advantage of the recent rainfall.
- Since rainfall with wind speed >10 kmph is expected, provide propping to early season sugarcane. Create drainage facilities
- Prevailing wind speeds may damage the physical appearance of the crop. Hence, farmers are advised to practice propping. Avoid water stagnation, by draining out excess rainwater from the field.
- Fertilizer application can be considered based on current soil moisture levels and prevailing local weather conditions.

Karnataka

232.2 mm (58% excess) rainfall over South Interior Karnataka; 252.8 mm (25% excess) rainfall over Coastal Karnataka and 124.9 mm (17% excess) rainfall over North Interior Karnataka was received from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is excess rainfall over North Interior Karnataka, Coastal Karnataka and South Interior Karnataka for week 1 and; deficit rainfall over South Interior Karnataka, large deficit rainfall over North Interior Karnataka and normal rainfall over Coastal Karnataka during week 2.

South Interior Karnataka

- In Finger millet (Tillering, ear head emergence), farmers are advised to drain out the excess rainwater in the crop field and tie the ear head to prevent fall down.
- Farmers are advised to drain out the excess rain water from the groundnut fields (seed filling stage).
- Remove and burn the infected Wilt diseased Redgram plants in the field.

Andhra Pradesh

195.6 mm (35% excess) rainfall was received over Rayalaseema, and 163.5 mm (-21% deficit) was received over Coastal Andhra from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is deficit rainfall over Rayalaseema a large deficit over Coastal Andhra Pradesh for week 1 and; a large excess over Rayalaseema and Coastal Andhra Pradesh for week 2.

- In the North Coastal Zone of Andhra Pradesh, Paddy crops are currently in the panicle initiation to the flowering stage, making them vulnerable to moisture stress, which can reduce yields. Apply 23 kg of urea per acre. As the weather will be mostly dry, maintain a water level of 4-5 cm in the fields.
- Maize crop is at the vegetative stage to grain development stage. Utilizing the available soil moisture, farmers are advised to apply 25% of N at 25-30 DAS (knee high), 25% of N at 45- 50 (Pre-tasseling) and 25% of N at 60-65 DAS (Tasseling).
- In the North Coastal zone of Andhra Pradesh, farmers are advised to utilize the moisture after rains and go for sowing of Rabi black gram with varieties like LBG 904, LBG 752 PU 31 etc., at a seed rate of 18-20 kg/acre duly following the seed treatment with captan or mancozeb @ 2.5 g/kg seed and imidacloprid @ 5ml/kg seed and later treat the seed with rhizobium @ 20 g/kg seed before one hour of sowing
- Redgram crop is at the flowering stage to pod development stage. Current weather conditions are congenial for Maruca pod borer and Helicoverpa incidence. Farmers are advised to spray neem oil @5 ml per litre of water initially and based on incidence to spray Emamectin benzoate 5 % SG @0.5g or Indoxacarb 14.50 % SC@ 1ml per litre of water. Suggested to take up spraying operations based on local weather conditions.

Odisha

73.8 mm (-37% deficit) rainfall was received over Odisha from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is a large deficit rainfall over Odisha for week 1 and week 2.

- Store the harvested paddy in a safer place (properly stacked with suitable cover) to avoid damage. Drain out the water from the paddy field, 15 days before harvesting the crop

- Groundnut should be stored in polythene lined gunny bags with desiccant-like fused Calcium Chloride @ 250-gram/30 kg of seeds. The desiccant should be tied with a cotton cloth and kept inside a perforated plastic box. The sealed bags should be kept vertically inside a well-ventilated room at room temperature. This technique is very effective in maintaining a high germination rate even after 8-10 months of storage.
- For controlling Red Rot disease in Sugarcane, spray Carbendazim 12%+ Mancozeb 63 % WP @ 400 g /acre or Metalaxyl 8 % + Mancozeb 64 % WP @ 400 g/acre by mixing it in 200 litres of water.

Maharashtra

102.4 mm (29% excess) rainfall over Madhya Maharashtra, 71.9 mm (-5% normal) rainfall over Marathwada, 231.7 mm (95% large excess) rainfall over Konkan, and 41.7 mm (-30% deficit) rainfall over Vidarbha was recorded from 01 October to 03 November 2024. The extended range weather forecast (rainfall) for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is large excess rainfall over Konkan, Madhya Maharashtra and 1 deficit rainfall for Vidarbha and Marathwada for week 1; and large deficit rainfall over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week 2, respectively.

Marathwada

- Harvested soybean crop must be threshed after sun drying if the produce is for seed, farmers are advised to thresh the soybean having 13-14 % moisture. The grains should be sun-dried for 3-4 days.
- For management of Rhizome fly in turmeric take a spray of Quinalphos 25 % @ 20 ml or Dimethoate 30 % @ 15 ml per 10 liter of water with an interval of 15 days. Cover the rhizome with soil. For management of leaf spot disease in the Turmeric crop take a spray of Azoxystrobin 18.2% + Difenoconazole 11.4% (Premixed Fungicide) @ 10 ml + 5 ml Sticker per 10 litre of water during clear weather conditions.
- After harvesting kharif crops, chickpeas should be sown as early as possible, as per the availability of water. It should be done up to the first week of November. Sowing of irrigated chickpeas should be done up to 10th November, at 45x10 cm spacing. Apply 25:50:30 Kg NPK per hectare at the time of sowing. Seed treatment of 2.5 g Carbendazim or 10 g Trichoderma per Kg seed and 10 g Trichoderma or 3 g Thiram per kg seed.

Vidarbha

- Undertake clean picking of burst bolls in earlier sown cotton and properly dry the produce before storage, variety-wise. A foliar spray of 2% DAP at the boll development stage is advisable for better productivity. Keep a close watch on male moths of pink bollworm in pheromone traps in cotton fields.
- Undertake remaining harvest of matured soybean crop judging clear weather and ensure safe storage of harvested produce to protect from quality deterioration due to rains.
- Irrigated chickpeas (Jaki 9218, PDKV Kanchan, Vijay, Vishal, ICCV-2, and ICCV-10) can normally be sown by the October end or latest by 10 November. Wilt-resistant varieties include JAKI 9218, Vishal, ICCV-2, ICCV-10 etc. Maintain a sowing depth of 5 cm under irrigated conditions.

Madhya Maharashtra

- Pigeonpea crop is in the flowering stage for better pod formation and higher seed yield, foliar application of WSF grade 19:19:19 @ 10 g per lit of water is advised.
- In sorghum and chickpea, carry out hoeing by using the split hoe.
- Farmers who want to sow jowar for animal feed should choose the varieties viz., Phule Ruchira, Phule Amruta, and Phule Godhan. For sowing, use 40 kg of seeds per hectare and sowing of seeds at a distance of 30 cm is recommended.

West Bengal

199.3 mm (44% excess) rainfall was received over Gangetic West Bengal and 171.2 mm (18% normal) rainfall was received over Sub Himalayan West Bengal from 01 October to 03 November 2024. The extended range weather forecast (rainfall) for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) is large deficit rainfall over Gangetic West Bengal and excess rainfall over Sub-Himalayan West Bengal during week 1 and large deficit rainfall over Gangetic West Bengal and Sub-Himalayan West Bengal during week 2.

- High rainfall led to havoc lodging in matured kharif rice. Rice crops that are yet to be harvested are requested to be kept in the field for further drying. Nets may be used to protect the matured rice from birds and insects.
- In brinjal (flowering and fruiting), farmers are advised to avoid stagnation of water should. Upland planting is recommended.
- In pointed gourd, Bamboo structures may be repaired, and drainage channels should be cleared periodically.
- For the management of yellow stem borer, leaf folder, and hopper pests. Spraying of Bifenthrin 10 % EC@1ml or Carbosulfan 25% EC@ 1ml/litre water is advised
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- Applying border crops along rice, especially in organic farm practices may reduce pest incidence.

Jharkhand

60.7 mm (-19% normal) rainfall received over Jharkhand from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) over Jharkhand is a deficit for week 1 and a large deficit for week 2.

- Keeping in view of suitable weather conditions, sowing of mustard should be done in this week. Recommended cultivars: - shivaani, pusa bold, Pusa Mustard 25, birsa bhabha sarson 1, pila sarson, NRCHB – 11, 05, 02. Seed rate: - 1.5-2 kg per acre. Moisture level in the soil should be appropriate for proper germination otherwise apply pre-sowing irrigation.
- In the areas where the paddy crop is about to mature, water should be drained two weeks before harvesting. After harvesting crop should be dried in the field for 2-3 days and thereafter threshing should be done. Grains should be properly dried to the right moisture level 12-14 % before storing. Godowns should be properly cleaned by removing all the grains and other storage matter of previous crops.
- Farmers who want to cultivate early Peas, should arrange for good-quality seeds, fertilizers etc. Choose the recommended early pea variety, Arkel. For sowing in one acre, 40 kg seeds, 35 kg 85 urea, 200 kg SSP. And 25 kg of muriate of potash is required.

Jammu

10.3 mm (-71% large deficit) rainfall received over Jammu from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) over Jammu is a large deficit for week 1 and excess for week 2.

- Due to the presence of dry weather farmers may go for sowing of mustard (Pusa Bold, RSPR-01, RSPR-03, Kranti). Treat the seed with captan or thiram @ 3g/kg seed before sowing for management of seed-borne diseases.
- Farmers may go for sowing of Field Pea (var., AP-1, Bonnevillea, Rachna and Arkel); Chickpea (var., K-468, Gourav); Treat seed with fungicide (Captan or Thiram) @ 2.0 gm/kg of seed as well as with crop-specific Rhizobium culture before sowing.
- Harvesting and threshing of the timely transplanted varieties of Basmati rice is recommended. After harvesting dry paddy sheaves well in the field for 2-3 days before threshing.

Assam

205.2 mm (32% excess) rainfall was received over Assam from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) over Assam is a large excess for week 1 and a large deficit for week 2.

- Gundhi bug infestation is observed in sali rice at the panicle emergence stage to milk dough stage that can be controlled by spraying Neemazol or Neembicidine or Neem oil @ 4ml per litre of water, if the infestation is severe then, Bifenthrin 10 % EC or Malathion 50EC@1ml per litre of water is recommended.
- During the time of final land preparation apply 3 to 4 quintals of FYM along with 12 kg Urea, 30 kg SSP and 3 kg MOP in case of Rapeseed. For Mustard, the application of 23 kg Urea, 33 kg SSP and 7 kg MOP along with 1.0 kg Borax per bigha of land is recommended. Apply lime at least 21 days before sowing of seeds. Suitable varieties recommended for the state of Assam are M-27, TS-36, TS-38, TS-46, PM-26, PM-27, and NRCHB-101 etc.
- Well-drained sandy loam rich in organic matter with pH 5.0-7.0 land should be selected for tomato and sowing may be done in October to November. The land should be prepared to a fine tilth and FYM to be applied at least 15 days ahead of transplanting. The recommended varieties of tomato are; Punjab Chuhara, S-12, Punjab Kesri, Pusa Early Dwarf, Sioux, Pusa Ruby, Arka Abha (BWR-1), Arka Alok (BWR-5) and BT-1.

Himachal Pradesh

0.7 mm (-97% large deficit) rainfall was received over Himachal Pradesh from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) over Himachal Pradesh is a large deficit for week 1 and a deficit for week 2.

- Before Rabi crop sowing after cleaning fields add decomposed FYM or compost before sowing of crops as it improves the physical and biological properties of soil and thus increases the water retention capacity as well as nutrient status of the soil.

- An early sowing wheat crop is advised, in case of termites-infestation, treat the seed with 4 ml of Chlorpyrifos 20 EC/kg of seed and dry it and then treat it with Bavistin or Vitavax 2.5g/kg of the seed.
- Advised to complete the sowing of berseem crop by treating the seed with a suitable strain of Rhizobium and for higher production farmers can mix 500 g seed of mustard/ha

Chattisgarh

19.1 mm (-66% large deficit) rainfall was received over Chattisgarh from 01 October to 03 November 2024. The extended range weather forecast (rainfall) provided for the next two weeks (01 November - 07 November 2024 and 08 November - 14 November 2024) over Chattisgarh is a large excess for week 1 and week 2.

- Farmers having irrigation facilities should irrigate their rice fields as per requirement. Irrigation should be withheld in the fields which are in saturation.
- Farmers are advised to control Armyworm and Panicle mite spray fungicides when the weather is clear. For control of Sheath Blight farmers are advised to spray of insecticides when the weather is clear.
- The field where rice crop is approaching maturity and the field is having some moisture; farmers can go for relay cropping (utera) of linseed or lathyrus.

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