



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

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वैधता/Validity: 11 April – 24 April 2025

जारीकर्ता/Issued by

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AICRP on Agro-Meteorology (AICRPAM)

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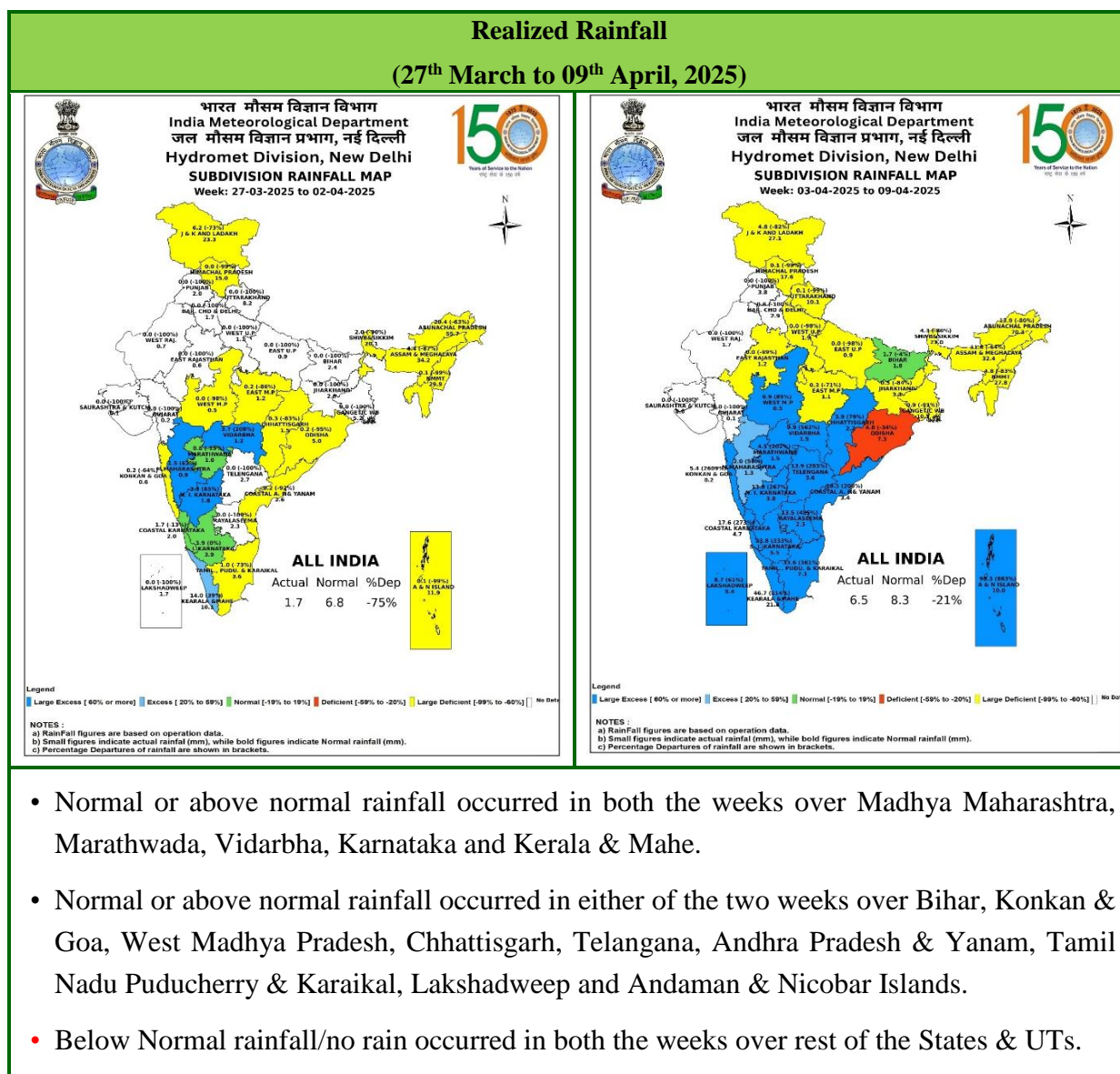
भारतीय मौसम विज्ञान विभाग

India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

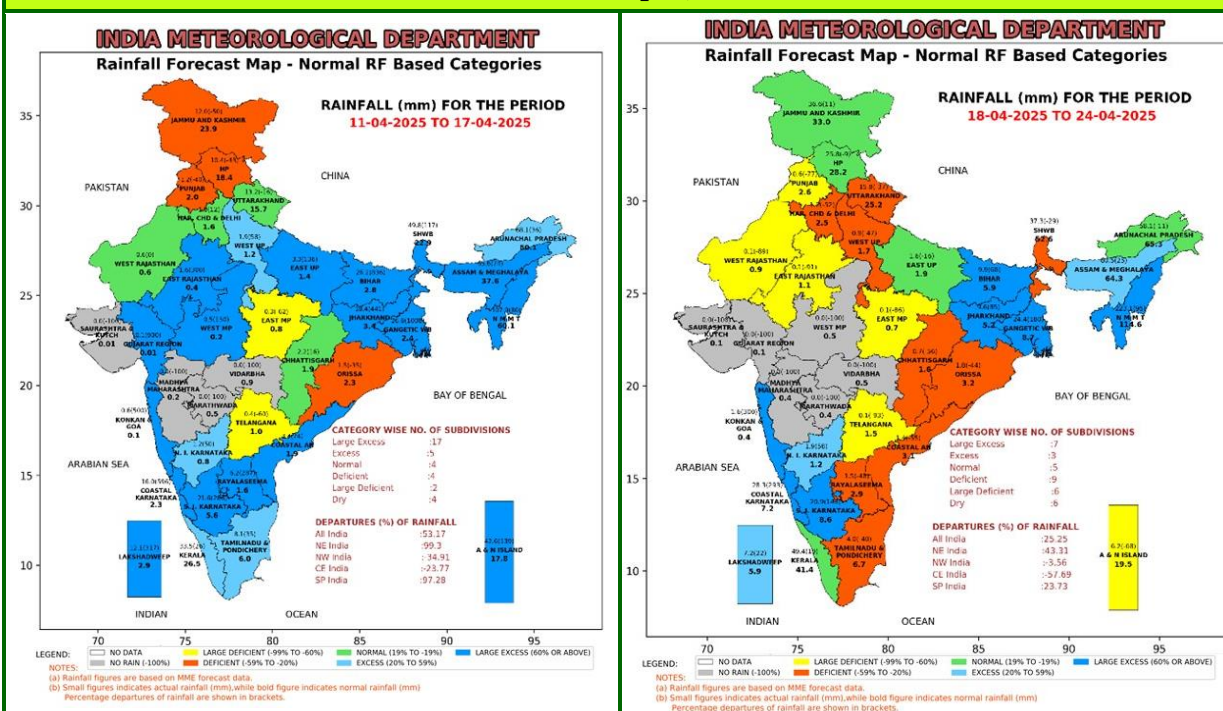
Earth System Science Organization

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



Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 09th April, 2025) (11th to 24th April, 2025)



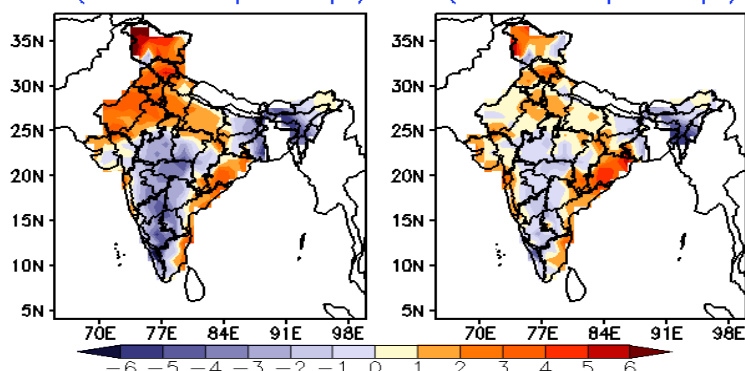
- Week 1 (11.04.2025 to 17.04.2025):** Rainfall is likely to be above normal over North East India and South Karnataka. Rainfall activity is also likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, many parts of East India, Kerala, Tamil Nadu and Karnataka.
- Week 2 (18.04.2025 to 24.04.2025):** Rainfall is likely to be above normal over South Karnataka and Nagaland Manipur Mizoram & Tripura. Rainfall activity is also likely over Jammu & Kashmir, Himachal Pradesh, Uttarakhand, many parts of East India, North East India, Kerala and Karnataka.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 09th April, 2025)
(11th to 24th April, 2025)**

MME forecast Tmax anomaly ($^{\circ}$ C)

(Week1: 11Apr–17Apr)

(Week2: 18Apr–24Apr)



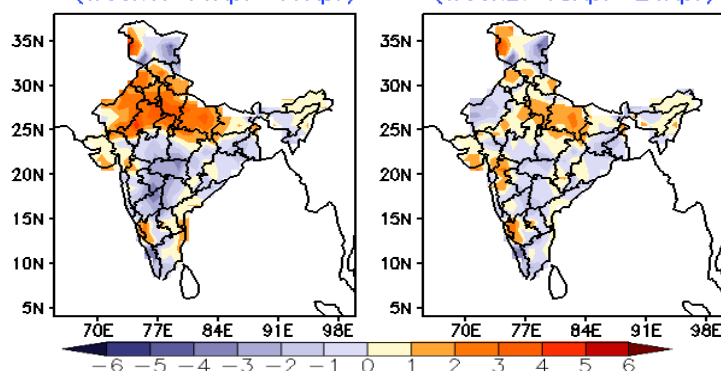
Maximum Temperature (Tmax)

- **Week 1 (11.04.2025 to 17.04.2025):** Maximum temperature is likely to be above normal over North West India, Odisha, Coastal Andhra Pradesh, northern parts of Gujarat state, Konkan-Goa, some parts of Chhattisgarh, and coastal regions of Tamil Nadu. However, it is likely to be below normal over many parts of East & North East India, Central India, West India and South India.
- **Week 2 (18.04.2025 to 24.04.2025):** Maximum temperature is likely to be above normal over North West India, Odisha, Coastal Andhra Pradesh, many parts of Gujarat, Konkan-Goa and parts of Chhattisgarh, Jharkhand and Tamil Nadu. However, it is likely to be below normal over many parts of East & North East India, Central India, West India and South India.

MME forecast Tmin anomaly ($^{\circ}$ C)

(Week1: 11Apr–17Apr)

(Week2: 18Apr–24Apr)



Minimum Temperature (Tmin)

- **Week 1 (11.04.2025 to 17.04.2025):** Minimum temperature is likely to be below normal over many parts of Central India, East India and South India. However, it is likely to be above normal over many parts of North West India, some parts of Bihar, Gujarat and Karnataka.
- **Week 2 (18.04.2025 to 24.04.2025):** Minimum temperature is likely to be below normal over West Rajasthan, many parts of Central India, East India and South India. However, it is likely to be above normal over many parts of North West India, North East India, Gujarat, Madhya Maharashtra and Karnataka.

Strategic Agricultural Planning based on Rainfall till 24 April 2025

Agromet Advisories

Kerala

Kerala received a rainfall of 136.2 mm (72% large excess) from 01 March to 14 April 2025. Kerala's extended range weather forecast (rainfall) for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) is excess rainfall for week 1 and normal rainfall for week 2.

- In Rice (Puncha rice (Dough stage)), spray 4 grams of Trifloxystrobin + Tebuconazole mixture in ten litres of water to control sheath blight disease in rice.
- In banana, to control leaf curling in banana, due to calcium deficiency, apply 250g lime per banana plant. Boron deficiency is seen more during dry weather. Spray one gram of borax per one litre of water.
- Leaf-eating caterpillars may infest banana plants. To control them, destroy the affected leaves along with the eggs, larvae, and pupae. Additionally, spray neem seed extract at 5% concentration.
- Since dry weather conditions prevail, there is a chance of mites attacking bananas. Apply Wettable sulphur three grams per one litre of water.
- In coconut, cut two green leaves from the bottom layer, to reduce the water loss from the tree. Apply compost/dried leaves in the basins to increase water holding capacity. Adopt drip irrigation. This will minimize the irrigation water loss. Protect the newly planted young seedlings from direct sunlight falling on it by providing good shade.
- There is a chance of mosaic disease in Bhindi. It can be controlled by removing the infected plants. Place yellow sticking traps in the field to control the insect vector. If the attack is severe, spray Dimethoate 30 EC @ 1.5 ml per one litre of water.
- To control fruit borer infestation in brinjal, remove and destroy the infested plant parts along with the pests. In case of severe infestation, spray Chlorantraniliprole at a concentration of 3 ml per 10 litres of water.
- There is a possibility of a whitefly attack on tomatoes. To control them, spray a 2% neem oil-garlic emulsion. Alternatively, apply *Lecanicillium lecanii*, a beneficial fungus, at a rate of 20 grams per litre of water every ten days. If the infestation is severe, mix 4 grams of Thiamethoxam in 10 litres of water and spray it on the plants.
- There is a likelihood of leaf-cutting weevils infesting mango trees. To manage this, spray neem oil at 3% or Neem Seed Kernel Extract (NSKE) at 5%. Additionally, apply neem cake at a rate of 5 kg per plant to the soil. In cases of severe infestation, spray quinalphos at 2 ml per litre of water for effective control.

Tamil Nadu

Tamil Nadu received 90.2 mm (158% large excess) of rainfall from 01 March to 14 April 2025. The extended-range weather forecast (rainfall) for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) in Tamil Nadu is excess rainfall for week 1 and deficit rainfall for week 2.

- In rainfed cotton, farmers are advised to spray based on the pest occurrence (above ETL) and weather prevails.
- Farmers are advised to irrigate the crops based on soil moisture.
- Sowing may be done utilizing the rainfall in rice fallow pulse.

- In Chillies (Fruit maturity), Farmers are advised to harvest the matured fruits and store them safely.
- Present weather is conducive for Rugose Spiralling Whitefly. Application of Maida solution 25 g in one litre of water as spray to increase the population of Encarsia parasitic. Also keep yellow stick trap. Avoid chemical spray in coconut.
- Prevailing weather may persist for the incidence of canker disease (bacterial). To control spray copper oxy chloride 0.2% @ 15 days intervals in citrus.

Karnataka

Coastal Karnataka received 21.9 mm (2% normal) rainfall, North Interior Karnataka received rainfall of 32.1 mm (85% large excess) and South Interior Karnataka received rainfall of 58.6 mm (118% large excess); from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall over Coastal Karnataka and South Interior Karnataka, excess rainfall over North Interior Karnataka for week 1 week 2.

North Interior Karnataka

- In sugarcane, do not burn the trash. Spread the trash in between the rows and apply 20 Kg Urea and 20 Kg Super Phosphate fertilizer per acre on the trash. After this apply 2.5 Kg of trash decomposing bacteria mixed in dung slurry on the trash. This will facilitate the early decomposition of the trash. To save water, irrigate the crop in alternate rows.
- In grapes, before taking up pruning, remove the dead bark on the main stem of the vine by rubbing it with a gunny bag and then apply 5 per cent neem-based insecticide or smear the paste to the stem. After pruning, smear 2 per cent Hydrogen Cyanamide paste to the terminal 3-4 buds. This will facilitate, the sprouting of buds
- To control citrus canker disease cut the affected parts then spray 3gm copper oxychloride 50 W.P and 0.5 g streptomycin sulphate or 1% Bordo mixture in one litre of water.
- In mango, to manage sucking pests and powdery mildew, take up spraying of 2 ml Malathion and 3 g. Wettable Sulphur or 2 g. Carbendazim, dissolved in one litre of water. Repeat the same spray if necessary at an interval of 15 days.

South Interior Karnataka

- Right time for summer ploughing.
- Increasing the maximum temperature resulted flower and fruit drop noticed in horticulture crops and orchards to control spray 20 % Boron micronutrient spray@ 2g/litter of water.
- Intercultural operation in summer crops is recommended.
- Harvested Rabi crop cleaning and drying and stored in gunny bag

Andhra Pradesh

Coastal Andhra received 21.9 mm (2% normal) and 23.3 mm (45% excess) of rainfall in the Rayalaseema region from 01 March to 14 April 2025, the extended-range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) shows large excess rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and deficit rainfall for week 2.

- Farmers should regularly walk around the fields, monitor the water, insects, and pest activity, and spray insecticides only as needed. Under the present conditions of increasing temperatures, maintain 5 cm of water in the main field from the flowering stage to the grain development stage. Suggested to apply potash and final dose of urea at the panicle initiation stage in rice.
- Farmers who planted banana seedlings can protect the plants from heat stress by sowing seeds i.e., sunhemp, dhiancha, cowpea, field bean and cluster bean around the plant. This helps the plants withstand the heat. Suggested to spray 0-0-50 or 13-0-45 @5-gram per.

- Irrigate the orchards during fruit set and development stage as per soil condition. To control fruit flies in mango, install and erect 08-10 pheromone traps per acre at marble size fruit development stage. For effective control of fruit fly advised to cover the fruits with fruit bags.
- Irrigation Management: Provide light irrigation in the early morning or late evening to prevent fruit cracking and maintain quality. Mulching: Apply dry leaves, paddy straw, or coconut husk around the base to retain soil moisture and regulate root zone temperature. Present weather conditions are very congenial for wilt in orange. Advised to drench the soil with hexaconazol@2.0 ml per litre of water. Based on the age of the tree apply 5-6 litres of chemical solution.
- In chilli, present weather conditions are favourable for Thrips and mite's infestation and farmers are advised to control spray fipronil @ 2 ml/L. If there is only mite incidence spray spiromesifen @ 1 ml/L.
- Due to the current weather conditions, there is a possibility of coccidiosis outbreaks in chickens. Based on the symptoms of the disease, vaccinations should be administered during the first, fourth, and between 6-8 weeks of age. Additionally, giving a vaccine at the 20th week can help protect the chickens from diseases to a great extent.

Odisha

Odisha received rainfall of 41.4 mm (24% excess) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Odisha is a deficit rainfall for week 1 and week 2.

- Farmers are advised to harvest Green gram, black gram and groundnut crops at the physiological maturity stage and make their safe storage.
- Make a bund for conserving rainwater in the paddy field. Bund should be higher and wider so that more rainwater can be conserved in the field.
- Harvest the mature produce like tomato, chilli, cucurbits etc and keep the harvested produce in a safer place.
- Stop all outdoor activities once you hear thunder or see lightning. Seek shelter inside a concrete house or a safe structure. Do not stay in open fields, near trees, or water bodies during thunderstorms.
- As gusty winds are expected, provide Support to standing crops (like maize, sugarcane, banana, papaya) with stakes or earthing up to prevent lodging.
- 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.
- In paddy, to manage Gundi Bug spray Chlorpyrifos 20% EC @ 400- ml/ acre or Malathion 50 % EC @ 400- ml/ acre by mixing in 200-litre of water. Dusting of Chlorpyrifos 1.5 % D @ 10-kg/acre 3 or Malathion 5 % D.P @ 10 kg/acre should be done uniformly during morning hours when there is no or minimum wind.

Maharashtra

Konkan received rainfall of 6.4 mm (137% large excess), 4.6 mm (-24% deficit) rainfall over Madhya Maharashtra, 6.6 mm (-35% deficit) rainfall over Marathwada, and 17.9 mm (35% excess) rainfall over Vidarbha was recorded from 01 March to 14 April 2025. The extended range weather forecast (rainfall) for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall over Konkan, no rainfall over Marathwada, Vidarbha and Madhya Maharashtra for week 1 and week 2.

Konkan

- In summer rice, maintain an optimum water level of 5-10 cm in a rice field where the crop is in panicle initiation to the flowering stage.
- In groundnut, maintain a 10-12-day irrigation gap during flowering to prevent stress and yield loss due to dry weather and high temperatures. Due to the possibility of an increase in temperature, irrigate the vegetable crops as per requirement.
- Mango harvesting should be done using a picking net along with the stem when the fruits have reached 85 to 90% maturity in areas where they are ready for harvest.
- Considering the possibility of light to moderate rainfall in isolated places, mature cashew nuts and apples should be harvested, separated from the apples, and kept in a safe place for drying.
- Arrange for watering the areca nut plantation at an interval of 3 to 4 days. To prevent the leaves of newly planted areca nut saplings from scorching due to intense sunlight, provide shade over the saplings.
- As a temperature rise is likely, livestock should be provided with ample fresh, clean, and cool water to maintain their body temperature balance. Additionally, to reduce heat stress, a separate solution of 1% jaggery water and 0.5% salt should be sprinkled on the fodder.

Vidarbha

- In summer groundnut crops undertake light and frequent irrigation probably in the morning and evening hours. Almost all care should be taken at the critical growth stage of the crop.
- Drip irrigation on Mrig bahar-bearing trees of Nagpur mandarin and sweet orange should be continued. Apply by drip irrigation 41 litres water/day/tree to 6 years tree, 65 litres water/day/tree to 8 years tree and 82 litres water/day/tree to 10 years and above trees.
- Screening of farm livestock, draught / milch animals for diseases be considered and they be vaccinated for foot and mouth disease (FMD). For livestock green feed, with the availability of irrigation water

Madhya Maharashtra

- Land levelling and bunds repair work immediately be undertaken for proper distribution of water and soil and moisture conservation during the rainy period. Representative samples may be collected and analysed in the Soil Testing Laboratory of ZARS, Solapur or a Government-recognised laboratory for the determination of soil health and planning of the next crop
- During April and May in Ber (*Ziziphus mauritiana*), heavy pruning by cutting main stem at 60 cm height and 4-5 secondary branches is advised for proper bearing and For efficient use of available water and for reducing the evapotranspiration losses, cover the orchards with available material and spray 13: 0: 45 @ 1.5 percent every 15 to 20 days). Remaining dose of nitrogen (125 g per plant) if the bahar is taken in citrus crop.

Marathwada

- As per requirement irrigation management should be done in sugarcane crop. Hand weeding should be done for weed management in sugarcane crops. For management of stem borer in Sugarcane crops take a spray of Chlorpyrifos 20% @ 25 ml or chlorantraniliprole 18.5 % @ 4 ml per 10 litre of water. For management of white fly take a spray of Dimethoate 30% @ 36 ml per 10 litre of water during clear weather conditions.
- Irrigation management should be done in summer sesame crop with an interval of 8 to 10 days in medium soil and with an interval of 12 to 15 days in heavy soil. Irrigation should be done with the help of a sprinkler irrigation system. Sucking pests may be observed in summer sesame, for management of sucking pests takes a spray of 5 % NSKE during clear weather conditions.

- Irrigation management should be done in summer groundnut as per requirement with the help of a sprinkler irrigation system. If infestation of sucking pest may observe in summer groundnut, for management take a spray of anyone Imidacloprid 18.8% @ 2 ml or Quinalphos 25% @ 20 ml per 10 litre of water during clear weather conditions.

Gujarat

Rainfall received over Gujarat was 0.0 mm (-99% large deficit) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Gujarat is large excess rainfall for week 1 and no rainfall for week 2.

- As per soil/climatic condition and stage of sugarcane crop irrigation apply- summer at 15-17-day intervals or adopt drip method of irrigation and mulching of trash in between two rows of crops to save irrigation water. Earthing up should be done at 3-3.5 and 5.5-6 months after planting.
- In summer pearl millet crop irrigation should be given at an interval of 10 to 15 days as per soil and weather conditions or at critical growth stages of the crop. Carry out inter-culturing and weeding operations in sown crops. Apply 60 kg nitrogen per hectare as a top dressing after thinning operation under optimum soil moisture conditions.
- Use crop cover in newly planted papaya plants and protect the papaya fruits using gunny bags under high-temperature conditions. Harvest the matured fruits and sell them after grading.
- Keep animals under a shed/covered area during day hours due to an increase in maximum temperature. Bathing animals two to three times a day especially at noon hours during summer to protect them from heat and maintain milk production.

Chhattisgarh

Rainfall received over Chhattisgarh was 13.6 mm (4% normal) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Chhattisgarh is normal rainfall for week 1 and deficit rainfall for week 2.

- Wheat crops are in the maturity stage. According to weather forecast, there is the possibility of light cloud cover with light rainfall in the upcoming days. Therefore, farmers are advised to go harvest crops accordingly looking into the weather forecast & harvested crops should be kept in a safe place.
- Chickpea crop is in the maturity stage, therefore harvesting should be done as per the weather forecast. According to weather forecast, there is the possibility of light cloud cover with light rainfall in the upcoming days. Therefore, farmers are advised to avoid harvesting for one to two days & harvested crops should be kept in a safe place.
- Safflower crop is in the maturity stage. According to weather forecast, there is the possibility of light cloud cover with light rainfall in the upcoming days. Therefore, farmers are advised to avoid harvesting for one to two days & harvested crops should be kept in a safe place.
- Seed rate for summer green gram crop is 25-30 kg. per ha. Before sowing the seed should be treated with Trichoderma, Rhizobium culture and PSB. Seed treatment should be done at the rate of 5-10 g of culture per kg of seed.
- Seed rate for summer black gram crop is 15-20 kg. per ha. Before sowing the seed should be treated with Trichoderma, Rhizobium culture and PSB. Seed treatment should be done at the rate of 5-10 g of culture per kg of seed.

Madhya Pradesh

Rainfall received over East Madhya Pradesh was 4.5 mm (-61% large deficit), and 1.0 mm (-80% large deficit) over West Madhya Pradesh from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) is large deficit

rainfall over East Madhya Pradesh and large excess rainfall over West Madhya Pradesh for week 1 and large deficit rainfall over East Madhya Pradesh and no rainfall over West Madhya Pradesh for week 2.

- Care should be taken to protect the grain produced from fire, and keep it under shaded protected conditions in grain.
- Irrigation applied at weekly intervals. Monitoring of sucking pests in the field in Mung/Urd/Summer soybean.
- For rabi-sown canes, intercultural operations should be practiced. Irrigation applied at weekly intervals. Tie the canes together to prevent lodging. Apply the remaining dose of nitrogen, followed by earthing operations. This is followed by irrigation in the field.
- Monitoring of crop field for brinjal, tomato and chilli for insect-pest and diseases. Sowing cucurbit vegetables. Seed should be treated with fungicides before sowing. Irrigation was applied at weekly intervals in fruit formation stages of Okra, and solanaceous vegetables.
- In cucurbit vegetables, leaves show powdery mildew symptoms as the day temperature rises. Two sprays of Dinocap 48 EC at 0.1 % at 15-day intervals. In Brinjal, spray Quinalphos 25 EC at 1.5-2 ml/litre water for control of fruit borer.

Assam

Rainfall received over Assam was 49.2 mm (-53% deficit) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks for Assam (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall for week 1 and excess rainfall for week 2.

- Complete the nursery sowing of recommended semi-dwarf ahu rice varieties like IR-36, Lachit, Chilarai, Dishang etc. Areas having assured irrigation facilities should be selected for the cultivation of transplanted normal ahu rice.
- Go for weeding in green gram and black gram crops 20-25 days after sowing. Before the ensuing rainy season, make provision for small drains at required intervals in crop fields to drain out the excess water.
- Planting of papaya seedlings may be started. Prepare pits of 45×45×45 cm size at a spacing of 1.8×1.8 m and plant 3 seedlings per pit in case of dioecious type and 1 seedling per pit in case of hermaphrodite type
- Since there is no possibility of getting heavy rainfall in the coming 5 days, spray Imidacloprid 70WG (@ 0.3g per lit of water) to control stem borer infestation in the boro rice crop. Spraying of Fipronil 5SC (1.5-2 ml per litre of water) is advocated against the infestation of ear-cutting caterpillars.

West Bengal

Gangetic West Bengal received rainfall of 36.9 mm (-17% normal) and Sub Himalayan West Bengal received 90.4 mm (-10% normal) rainfall from 01 March to 14 April 2025. The extended range weather forecast (rainfall) for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall over Gangetic West Bengal and Sub-Himalayan West Bengal during week 1 and large excess rainfall over Gangetic West Bengal and deficit rainfall over Sub-Himalayan West Bengal during week 2.

- No Extra irrigation should be given this week. Harvested rainwater should be used for irrigation in boro rice replacing groundwater use.
- In brinjal, clearance of drainage channels should be done regularly to avoid stagnation of rainwater.
- Green gram varieties like Pusa Baisakhi, Samrat, Meha, Sikha, PM-05 are recommended to the farmers of this region. It is the ideal time for summer moong sowing. As there is a forecast of

rainfall no extra irrigation should be given to green gram. However, hand weeding after rainfall may be helpful.

Jharkhand

Rainfall received over Jharkhand was 53.6 mm (156% large excess) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks for Jharkhand (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall for week 1 and week 2.

- Keep irrigating mango and litchi plants regularly after they bear fruit. To prevent small litchi fruits from falling, spray Plano fix medicine with 1 ml per 3 litres of water.
- For sowing elephant foot yam, farmers should choose sandy loam soil with good drainage and go for improved varieties - Gajendra, Vidhan, Kusum and maintain a distance of 60 cm x 60 cm.
- Farmers interested in planting turmeric and ginger should choose loamy and well-drained soil. Improved variety of turmeric - Rajendra Sonia, Improved varieties of ginger - Vardhman, Suruchi, Suprabha, Nadia. Take a seed rate of 7 to 8 quintals per acre and sow on flat land.
- High temperature followed by intermittent thundershowers will favour in build-up of Brown Plant hopper infestation. If infestation of BPH below ETL, it is advised to maintain the water level of the rice field.
- Temperature will be above normal and will increase gradually in the first week of April. High temperatures followed by intermittent thundershowers will favour in build-up of Brown Plant hopper infestation. If infestation of BPH exceeds ETL (ETL: 5-10 hoppers/hill), it is advised to alter the micro-climate of the rice plant by alternate wetting and drying techniques (there should not be standing water for a long time). If the problem persists, spray Azadirachtin 0.15% neem seed kernel formulation @ 800 ml in 200 litres of water for one acre

Bihar

Rainfall received over Bihar was 33.0 mm (173% large excess) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks for Bihar (11 April - 17 April and 18 April - 24 April 2025) is large excess rainfall for week 1 and week 2.

- Complete the sowing of green gram (mung bean) & black gram (urd) at the earliest. Application of 20 kg nitrogen, 45 kg phosphorus, 20kg potash and 20 kg Sulphur/ha is advised during land preparation. Pusa Vishal, Samrat, SML-668, HUM-16 and Sona varieties for mung bean and Pant Urd-19 and Pant Urd-31, Uttra and Navi varieties of urd are recommended for sowing in North Bihar. Seed rate @20-25 kg/ha for small-sized grain and 30-35 kg/ha for large-sized grain with a spacing of 30x10 cm plant to plant is advised. Before sowing, the seed should be treated with rhizobium culture.
- Sowing of elephant foot yam is advised. Application of 10-15-ton FYM, 40 kg Nitrogen, 60kg Phosphorus and 80 kg Potash per hectare is advised during land preparation. Gajendra variety is recommended for sowing in North Bihar. Seed should be treated with Trichoderma viride before sowing. Seed rate@ 80 quintals/hectare is advised.
- Complete the sowing of summer vegetables. Monitoring of red pumpkin beetle is advised in cucurbitaceous vegetables, which are in the seedling stage. This is a very harmful insect pest. The grubs damage the plants by boring into the roots and underground stems. The adult beetles injure the flower, and foliage by biting holes into them. Severe infestation results in the death of the plant or retardation of growth. Dusting of Chlorpyrifos 2% dust @20 kg/hectare near the root of the plant is advised for control of grubs infestation. In severe cases, spraying of Dichlorvos76EC@1 ml/litre of water is advised.

Uttar Pradesh

Eastern Uttar Pradesh received rainfall of 10.7 mm (18% normal) and Western Uttar Pradesh received rainfall of 8.3 mm (-36% deficit) from 01 March to 08 March 2025. The extended range weather forecast (rainfall) for the next two weeks (07 March - 13 March and 14 March - 20 March 2025) is large excess rainfall over Eastern Uttar Pradesh and excess rainfall over Western Uttar Pradesh during week 1 and normal rainfall over East Uttar Pradesh and deficit rainfall over West Uttar Pradesh during week 2.

Western Uttar Pradesh

- Farmers are advised to harvest their crops before rainfall tie bundles immediately and store safer places in wheat.
- Farmers are advised that Threshing and winnowing should be completed as earlier in barley.
- Skip irrigation at a milking stage in rabi maize.
- Harvest mature crops and threshing should be done in pigeon pea.
- In zaid urd, rainfall forecast during this week farmers are advised to skip irrigation and weeding should be done at optimum moisture by hand hoe. Weeds should be used as mulch.

Uttarakhand

Rainfall of 83.4 mm (17% normal) was received over Uttarakhand from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Uttarakhand is normal rainfall for week 1 and deficit rainfall for week 2.

- In barley, the mature barley crop should be harvested well in advance to avoid lodging and the harvested produce should be stored well to avoid spoilage. It should be removed from the open fields and kept in a safe place.
- Avoid water stagnation in the crop field in wheat.
- Weeding should be done. Irrigation should be avoided in French beans.
- In the ginger, prepare the field and sowing should be done. Before sowing, treatment of rhizomes should be done to control the rhizome rot & wilt disease.
- In apples, Cover plants with an anti-hail net. Bee colonies/boxes are kept in orchards to enhance pollination.
- In okra, Weeding/hoeing should be done in Okra and other vegetable crops. postpone irrigation.

Haryana

A rainfall of 14.4 mm (-26% deficit) was received over Haryana from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Haryana is normal rainfall for week 1 and deficit rainfall for week 2.

- Farmers are advised to harvest and thresh the matured wheat and barley crops.
- Possibility of dry weather after 24 hours, farmers are advised for light and frequent irrigation in existing vegetable crops. Weather-based Impact advisory: possibility of increasing day and night temperatures, farmers are advised to reduce the number of pesticide sprays to meet high evaporative (mm per day) demands.
- Possibility of dry weather after 24 hours, farmers are advised to prepare the field for sowing of American/BT/Desi cotton crop with certified seeds. Ensure proper soil moisture before sowing.
- Due to the possibility of a gradual increase in temperature in the coming days, farmers are advised to keep the animals under the sheds during day times. Farmers are advised to ensure the frequent & adequate availability of clean drinking water to animals to prevent heat stress. Impact advisory (weather): During the daytime, keep jute curtains closed in the animal shed, especially in the

direction of hot winds entering/coming. At night, open (fold or roll up) the curtains (jute) to ensure proper ventilation and easy flow of cool air. These measures will help safeguard the animals from the adverse effects of hot wind. Provide the cattle/animal 50 grams of iodized salt and 50 to 100 grams of mineral mixture daily with feed & green fodder to keep them healthy.

Rajasthan

East Rajasthan received rainfall of 3.6 mm (-42% deficit) and 3.5 mm (50% deficit) rainfall was received over West Rajasthan from 01 March to 14 April 2025. The extended-range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) has a large excess rainfall over East Rajasthan and normal rainfall over West Rajasthan for week 1 and a large deficit rainfall over East Rajasthan and West Rajasthan for week 2.

Rajasthan for week 2.

- In present weather conditions, transplanting of young seedlings of tomato, chilli and Cole crops may be done this week. Keeping increasing temperature in view, farmers are advised for light irrigation in standing crops and vegetables as per requirement.
- Harvest the wheat crop where the crop is at maturity stage.
- For the control of termites in barley. Apply chlorpyrifos 20 E.C. @ 4 litre/ha. With irrigation water.
- At present timely sown gram crop is at maturity stage. So, farmers are advised to start the harvesting of gram.
- After harvesting mustard, keep the crop for sun drying in the field and then after threshing should be done.
- Complete the sowing of black gram till 15th March. Improved varieties are T-9, P.U.-19, Narendra urd-1 and Narendra urd-2. Seed rate- 30-35 kg/ha.
- Present weather is suitable for the sowing of cucurbitaceous crops. So, farmers are starting sowing cucumber, bitter guard bottle guard etc.
- Farmers are advised to procure quality seeds for green gram from certified sources and start sowing during this week. Variety: - Green gram – Pusa Visal, Pusa 9531, PDM-11, SML-668 Seed treatment with crop-specific Rhizobium culture as well as phosphorus solubilising bacteria (PSB) is also advised.
- Start making an incision in Opium Poppy. Use a three-tip mortar to make an incision.

Punjab

Rainfall of 9.2 mm (-68% large deficit) was received over Punjab from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Punjab is deficit rainfall for week 1 and large deficit rainfall for week 2.

- The mature crop can be harvested as weather is expected to remain dry in the coming days in wheat.
- Irrigate the crop at 7-12 days intervals for better growth of the crop in sugarcane.
- Start sowing recommended varieties/hybrids of cotton including Bt cotton or desi cotton during this month. Sow seeds in polythene bags to fill gaps in cotton. Give deep ploughings in paddy fields, where puddling was done continuously for longer periods as the hard layer developed due to puddling adversely affecting the deep penetration of roots. Apply heavy pre-sowing irrigation with good quality water for better germination and crop stand.
- Fruit borer attack in tomato crops can be checked by spraying 30 ml of Fame 480 SL or 60 ml Coragen 18.5 or 200 ml Indoxacarb 14.5 SC in 100 litres of water per acre. Observe a waiting period of 3 days after the spray of Fame and one day after the spray of Coragen.

Himachal Pradesh

A rainfall of 86.0 mm (-40% deficit) was received over Himachal Pradesh from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Himachal Pradesh is deficit rainfall for week 1 and normal rainfall for week 2.

- In mustard/ gobhi sarson. keep crop weed-free advised for harvesting of the matured mustard as soon as possible. 75-80 per cent of the pods (Siliqua) turn parchment brown in colour is the right time for harvest. Farmers are advised not to allow the crop to over-mature, which causes loss of grains due to scattering. Immediate threshing after drying is advised.
- Apply irrigation as it is critical for irrigation and nutrient management, especially potassium and water, to ensure good tuber size and yield. Infection of blight may occur in potatoes and tomatoes. Constant monitoring is advised. If symptoms appear then a spray of Carbendazim @ 1.0 gm/litre of water or Dithane-M-45 @ 2.0 gm/litre of water is recommended. Do weeding in potato
- In lower regions, start sowing of cucurbits crops this week. Seed should be treated with captan or thiram @ 2 grams/kg of seed before sowing. Use well-decomposed FYM 10-12 tons/acre in the field at the time of ploughing. cucurbitaceous crops, if the attack of red pumpkin beetle is found, then spraying of Dichlorvos 76 EC (DDVP) @ 1 gram per litre of water is advised.
- Weeding and hoeing in all crops and vegetables should be done for optimum growth. For shoot and fruit borer in brinjal and tomato crops, infested fruits and shoots should be collected and buried inside the soil. Also install a pheromone trap @25 per hectare If the pest population is high, spraying of Spinosad 48 EC @ 1 ml /4 litres of water is advised when the sky is clear. In present weather conditions, rouging of viral-infested crops should be done in chilli. Infected crops should be uprooted and buried in the soil. After rouging, spraying of Imidacloprid @ 0.3 ml per litre of water is advised to control the vector.

Jammu

Jammu received rainfall of 100.8 mm (-50% deficit) from 01 March to 14 April 2025. The extended range weather forecast (rainfall) provided for the next two weeks (11 April - 17 April and 18 April - 24 April 2025) over Jammu is a normal rainfall for week 1 and deficit rainfall for week 2.

- Rogue out loose smut and karnal bunt affected plants and destroy them by burning or deep burying under soil to avoid further dispersal. Remove off-type plants in early/normal sown crops as it is the right time. Organize a rat control campaign
- Farmers are advised to harvest mature crops immediately (if not harvested yet). Keep the bundles of the harvested plants in stacks with heads upwards and cover the stacks with polythene. Immediate threshing of dried harvested crops is recommended. Shift threshed crops immediately to safer places.
- Farmers may go for sowing of Mash (var.) Pant U-19, Uttara and Moong (var.) PDM-54, ML-131, ML 818, PS-16, PS-7 where rabi crops are harvested after receipt of rain.
- Cut worms that cut down the plant from the collar area can be controlled by Profenophos @ 0.5ml/lit of water. Spray 10 cm away from the root zone during clear weather.
- Spray Dithane-M-45 @2.5g/lit of water during clear weather to control post-damping off disease which kills the plant from the collar region

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