



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 30 October 2024**

आधारित/ **based on**

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

वैधता/ **Validity: 27 September - 10 October 2024**

जारीकर्ता/ **Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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Central Research Institute for Dryland Agriculture (CRIDA)

भारतीय कृषि अनुसंधान परिषद

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और

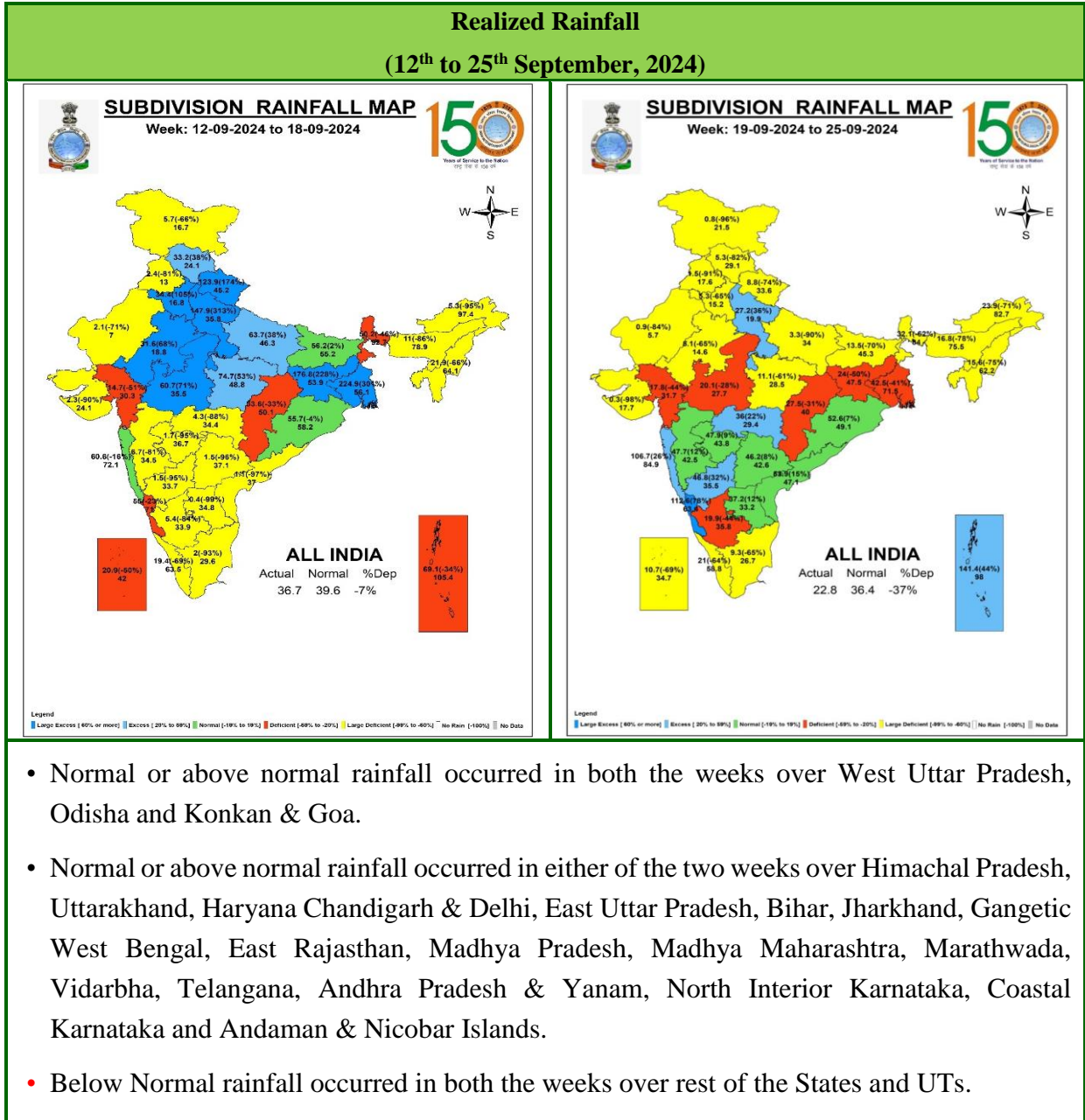
भारतीय मौसम विज्ञान विभाग

India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

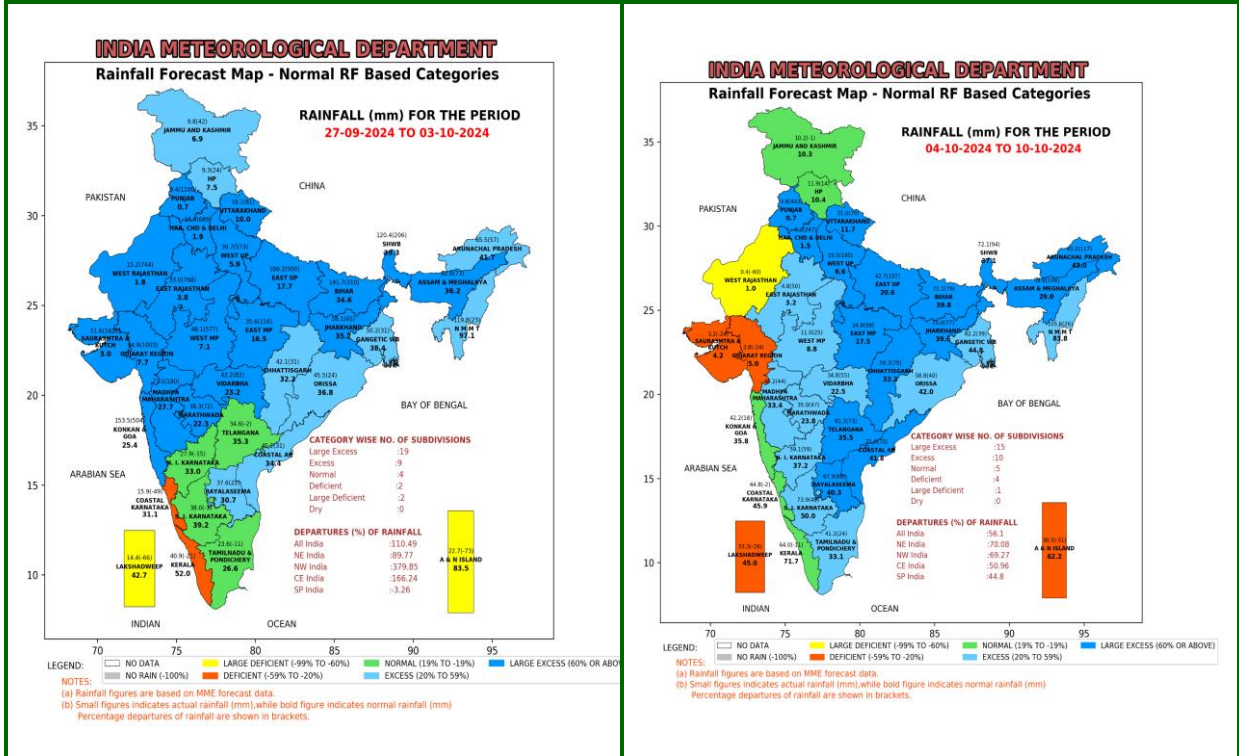
Earth System Science Organization

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- 25th September, 2024) (27th September to 10th October, 2024)



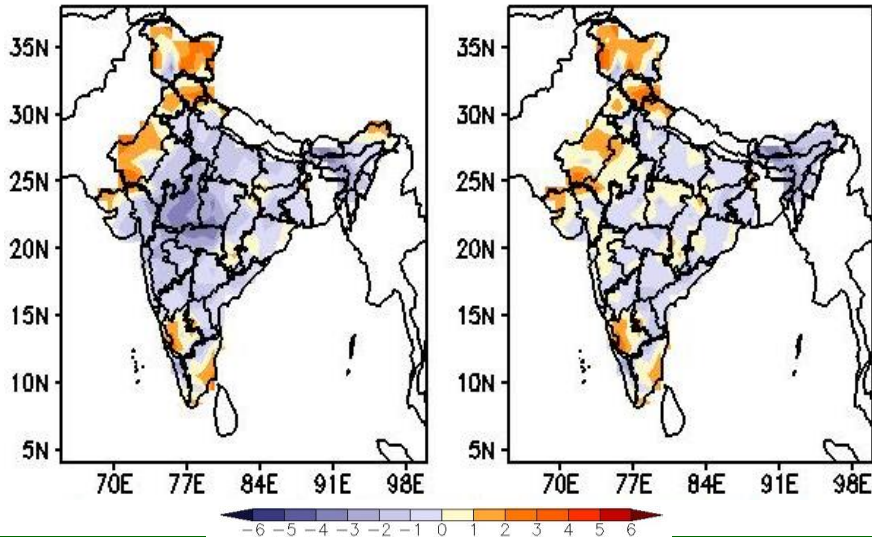
- **Week 1 (27.09.2024 to 03.10.2024):** Rainfall is likely to be above normal over many parts of Northwest India, Central India, East and Northeast India.
- **Week 2 (04.10.2024 to 10.10.2024):** Rainfall is likely to be above normal over Uttar Pradesh, West Madhya Pradesh, Madhya Maharashtra and many parts of South, East & Northeast India.

**Maximum and Minimum temperature anomaly (°C) forecast
for the next 2 weeks (IC- 25th September, 2024)
(27^h September to 10th October, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 27Sep-03Oct)

(Week2: 04Oct-10Oct)



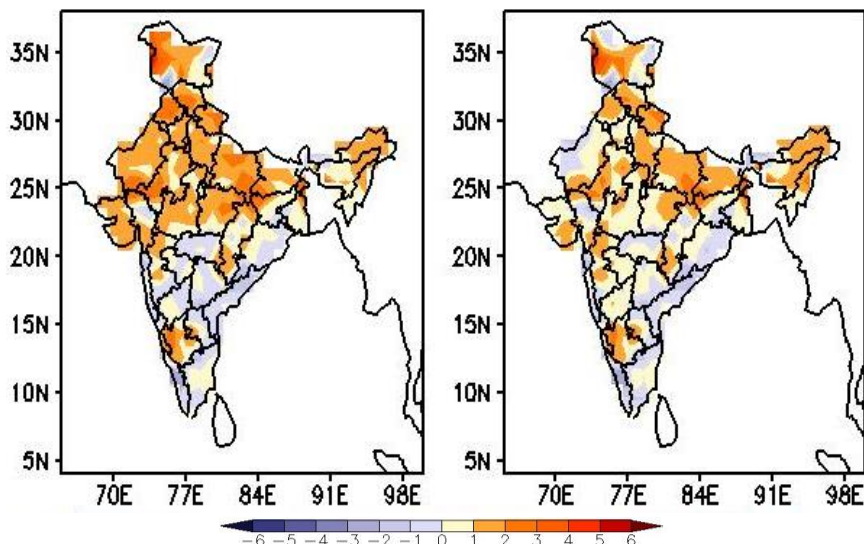
Maximum Temperature (Tmax)

- **Week 1 (27.09.2024 to 03.10.2024):** Maximum temperature is likely to be above normal over Jammu & Kashmir, Himachal Pradesh, Punjab, West Rajasthan, Karnataka and Tamil Nadu.
- **Week 2 (04.10.2024 to 10.10.2024):** Maximum temperature is likely to be above normal over some parts of Northwest India, Karnataka and Tamil Nadu.

MME forecast Tmin anomaly (Deg C)

(Week1: 27Sep-03Oct)

(Week2: 04Oct-10Oct)



Minimum Temperature (Tmin)

- **Week 1 (27.09.2024 to 03.10.2024) and Week 2 (04.10.2024 to 10.10.2024):** Tmin is likely to be above normal in most parts of Northwest India, Central India and Karnataka. Tmin is likely to be below normal over Eastern coastal states and Kerala.

Strategic Agricultural Planning based on rainfall till 10 October 2024

Agromet Advisories

Kerala

1734 mm (-14% deficit) rainfall was received over Kerala from 01 June to 29 September 2024. The extended range weather forecast (rainfall) for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is deficit rainfall for week 1 and normal for week 2.

- There is a chance of the appearance of rice bugs in paddy. To control spray fish jaggery extract (20 ml per litre of water) or spray chitin-based *Pseudomonas fluorescens* 20 gram in one litre of water. If the attack is severe, spray Azadirachtin 10 ml or Malathion 50EC@2 ml per litre of water.
- During high humidity, there is a chance of pollu disease in pepper plants. Control the shade in the garden and spray with 1% Bordeaux mixture.
- During the rainy season, there is a chance of Anthracnose disease in Cowpea. To control, spray Carbendazim 50% WP @ 1 gram per one litre of water.

Tamil Nadu

384 mm (19% excess) rainfall was received over Tamil Nadu from 01 June to 29 September 2024. The extended range weather forecast (rainfall) for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is a normal rainfall for week 1 and an excess for week 2.

- Since normal rainfall is forecasted for this week, therefore, farmers are advised to keep ready cotton seeds and fertilizer for sowing. Do seed treatment using TNAU products (Vithai amirtham) 10 ml /kg of seeds to impart the proper seed germination. It can be kept for a long period.
- Prevailing wind speed may damage the crop. Hence, farmers are advised to do propping. Use transparent polyethylene sleeves with 4 % ventilation to cover the bunch immediately after the opening of the last hand to blemish-free fruits with uniform size and quality.
- There is a chance of sucking pests in the tomato crop. Spraying 3 % neem seed kernel extract or Cyantraniliprole 10.26 % OD@ 1.5 ml or Imidacloprid 17.80 % SL@0.3 /liter of water is advised.

Karnataka

720 mm (7% excess) rainfall over South Interior Karnataka; 3762 mm (22% excess) rainfall over Coastal Karnataka and 496 mm (4% excess) rainfall over North Interior Karnataka was received from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is deficit rainfall over Coastal Karnataka, normal over North Interior Karnataka and South Interior Karnataka for week 1 and; normal rainfall over Coastal Karnataka, excess rainfall over North Interior Karnataka and 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/liter). And install Pheromone traps for *Helicoverpa armigera* 10/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.
- 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 to banana and vegetable crops to protect it from uprooting of crops.

North Interior Karnataka

- Since good rainfall has been received during the previous week and there is a chance of moderate rainfall during this week, therefore it is advised to provide proper drainage for excess water.
- Take up sowing of late *rabi* crops as soon as the condition permits depending on the soil type.

Andhra Pradesh

478 mm (19% excess) rainfall was received over Rayalaseema, and 800 mm (35% excess) was received over Coastal Andhra from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is excess rainfall over Rayalaseema and Coastal Andhra Pradesh for week 1 and; large excess over Rayalaseema and Coastal Andhra Pradesh for week 2.

- In the 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 Dimethoate 30 % EC@1ml and carbendazim @1 g/ litre of water.
- Present weather conditions may lead to Zinc deficiency in rice crop. To control go for spraying with Zinc sulphate @ 0.2% (2 g/litre of water).

Odisha

1091 mm (-5% deficit) rainfall was received over Odisha from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is excess rainfall over Odisha for week 1 and; week 2.

- Do proper field surveillance for pests and diseases regularly and take appropriate plant protection measures accordingly.
- Prevailing weather condition is favourable for infestation of sucking pests like aphids, jassid, whitefly, mealy bug and thrips. Apply neem bases pesticide Azadirachtin (1500 ppm) @ 3 ml/litres of water at the initial stage to manage sucking pest infestation.
- 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.
- To control Epilachna Beetle in cucurbits spray neem-based pesticide (Neem Oil 1500 ppm) @ 3 ml/litre of water at an early stage of infestation.

Maharashtra

1035 mm (39% excess) rainfall over Madhya Maharashtra, 772 mm (21% excess) Marathwada, 3709 mm (30% excess) Konkan, and 1098 mm (17% excess) rainfall over Vidarbha was recorded from 01 June to 29 September 2024. The extended range weather forecast (rainfall) for the next two weeks (27 September - 03 October 2024 and 04 October - 10 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

- Given realized rainfall, drain out excess water from standing crops, orchards and vegetables. Undertake harvesting and threshing of matured soybean, sorghum and pearl millet during clear weather and keep the produce at safer places
- Because of realized rainfall, drain out excess water from standing crops, orchards and vegetables.
- Undertake harvesting and threshing of matured soybean, sorghum and pearl millet during clear weather and keep the produce at safer places.
- To improve the fruit size of pomegranate, spray 00:52:34 @ 10 g per litre of water during clear weather.
- For the management of stem borer in sugarcane, spray Chlorpyrifos 20% @ 25 ml or Chlorantraniliprole 18.5 % @ 4 ml per 10 litres of water during clear weather.
- For management leaf spot in turmeric, spray Azoxystrobin 18.2% + Difenoconazole 11.4% (Premixed Fungicide) @ 10 ml + 5 ml sticker per 10 litres of water during clear weather.

Vidarbha

- Undertake harvesting of timely sown matured soybean crop judging forecast and local clear weather conditions. Keep tarpaulin ready to cover the harvested produce in the event of sudden rainy weather conditions and ensure safe storage of harvested produce.
- Undertake intercultural operations in cotton at wapsa conditions during clear weather.
- Undertake intercultural operations in cotton, pigeon pea and turmeric.

- For better productivity, undertake a foliar spray of 2% Urea in cotton at the flowering stage and 2% DAP at the boll development stage during clear weather.
- If phytophthora blight (stem rot or stem blight) is observed in pigeon pea, spray Fosetyl AL 80% WP @ 20 g per 10 litres of water during clear weather.

Madhya Maharashtra

- In view of heavy to very heavy rainfall at isolated places in ghat areas of Pune district, make arrangements to drain out excess water from kharif crops, vegetables and orchards.
- Complete harvesting of matured green gram and black gram during clear weather and keep harvested produce at safer places.
- Undertake nipping in 45 days old pigeon pea.
- Undertake intercultural operations in cotton at wapsa conditions during clear weather.
- Maintain a 5 to 10 cm water level in rice fields at stem elongation and panicle initiation stage.
- Due to intermittent rainfall and cloudy weather, there is a possibility of incidence of blast on rice, if incidence is noticed spray Ediphenphos 50%EC@1ml/liter water or Hexaconazole 5% EC@2ml/liter water. Or Tricyclazole 75% WP @ 8 grams / 10 liters of water during clear weather.

Konkan

- Undertake harvesting of matured soybean during clear weather and keep the harvested produce at safer places.
- Continue land preparation for sowing of rabi safflower, sorghum and rainfed chickpea in the Solapur district.
- For control of yellow stem borer in rice, spray Cartap Hydrochloride 50 % SP@1gram/litre or Chlorpyrifos 50 % EC @ 1ml/liter water during clear weather.

Gujarat

1196 mm (29% excess) rainfall was received over Gujarat from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Gujarat is a large excess for week 1 and deficit for week 2.

- Drain out excess rain water from standing sugarcane fields. Provide support to sugarcane crop with bamboo or tie plants to protect against wind and heavy rain.
- *Orobanchaceae* shoots should be removed regularly from bidi tobacco fields and should be burned or disposed of properly. Make provision for draining out excess water from standing crop fields.
- Cutting of fodder sorghum should be done at 60 to 65 days (50 % flowering stage) after sowing in single-cut varieties. The first cutting of fodder sorghum should be done at 45 to 45 days and the next cutting at subsequent 30 days in multi-cut varieties.

Chhattisgarh

1231 mm (9% excess) rainfall was received over Chhattisgarh from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Chhattisgarh is excess rainfall for week 1 and large excess rainfall for week 2.

- Harvest the kharif vegetables like bitter melon, bitter melon, bitter melon and okra etc. After this, field preparation for rabi season vegetables is advised. Prepare nursery for vegetable crops which provide high profit in the rabi season like cauliflower, broccoli, beetroot, and late cucumber.
- According to weather forecast, there is possibility of excess rainfall during this week. Farmers are advised to maintain water level in rice field up to 5 cm in the field.
- In banana, it is advised to provide a balanced amount of nutrient fertilizer and support by bamboo sticks at the flowering and fruiting stage.

Madhya Pradesh

1179 mm (13% excess) rainfall was received over East Madhya Pradesh from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Madhya Pradesh is large excess rainfall for week 1 and week 2.

- Due to the forecast of large excess rainfall during this week, it is advised to make arrangements to drain out excess water from pigeon pea, maize, groundnut, soybean and vegetables.
- Under prevailing weather condition, it is advised to keep harvested produce at safer places or cover it with tarpaulin and postpone spraying of agrochemicals and intercultural operations.
- Monitor insect pests in kharif crops and undertake control measures during clear weather. Avoid animals for grazing in open spaces during thunderstorms & lightning periods.

Assam

1476 mm (-16% deficit) rainfall received over Assam from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Assam is a large excess for week 1 and week 2.

- There is a possibility of excess rainfall during this week, it is advised to repair the bunds in the paddy fields to conserve rainwater. Maintain standing water of 5 ± 2 cm depth in the field.
- Farmers can continue sowing recommended varieties of pumpkin like Arka Suryamukhi (small sized), Arka Chandan (medium-sized) etc. in the nurseries. Make provisions for temporary sheds to protect the seedbeds from the predicted rainfall.
- Continue sowing of brinjal seeds in the seedbed by selecting the recommended varieties like *Pusa Purple Cluster*, *Borbengena*, and *BWR-34*, *Pusa Kranti*, *Pusa Purple Long* (Long type); *Pusa Purple Round*, *Pusa Bhairab*, *BWR-12* (round type); *BB-7*, *Pant Samrat*, (oblong type).

West Bengal

1169 mm (1% excess) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 2058 mm (9% excess) from 01 June to 29 September 2024. The extended range weather forecast (rainfall) for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is excess 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 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 CRIJAF-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

1011 mm (-1% deficit) rainfall received over Jharkhand from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Jharkhand is a large excess for week 1 and week 2.

- Transplanting of brinjal, tomato, chilli and early cauliflower on the ridge is advised for those farmers whose seedlings are ready. Proper drainage is also advised in the fields due to a forecast of large excess rainfall.
- In view of the rains, farmers should make proper arrangements for drainage of water in the Marua crop. In the 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 the ridge is advised for those farmers whose seedlings are ready. Proper drainage should be done in the fields.

Bihar

798 mm (-19% deficit) rainfall received over Bihar from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Bihar is a large excess for week 1 and week 2.

- Nursery sowing of late varieties of cauliflower such as *Maghi*, *Snoking*, *Pusa snoking-1*, *Pusa-2*, *Pusa snowball-16* and *Pusa snowball K-1* is advised. Transplanting of mid duration varieties of cauliflower such as *Pusaaghani*, *Pusi*, *Patna men*, *Pusa synthetic-1*, *Pusashubhra*, *Pusasarad*, *Pusamedhna*, *Kasikuwari* and early snowball is advised.
- Continue the sowing of radish varieties such as *Pusa chetki*, *Pusa desi*, *Jounpuri*, *Pusa himani*, *Japani safed*, *Pusa rashmi*, *Punjab safed* and *Arka nishant*. The planting distance should be 25X10 cm. Seed rate @4-5 kg/hectare is advised.

Uttar Pradesh

742 mm (10% excess) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 743 mm (-7% deficit) from 01 June to 29 September 2024. The extended

range weather forecast (rainfall) for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) is large excess over Eastern Uttar Pradesh and Western Uttar Pradesh during week 1 and week 2.

Western Uttar Pradesh

- Due to the forecast of above-normal rainfall during this week, therefore, farmers are advised to store the matured/harvested maize, sesame, and pulses crops in a safe place. And, postpone irrigation work in view of the possibility of rain.
- Due to the forecast of above-normal rainfall, there is a possibility of water stagnation in the field, then plant the early cauliflower, brinjal, tomato, chilli etc. on the ridges. If there is an outbreak of fruit borer/leaf borer in vegetable crops, make a solution of neem oil in 1.5 ml/liter of water to control it and spray it 3-4 times after clearing the sky at intervals of 6-10 days.
- There is a possibility of infestation of stem borer / shoot fly in sorghum crop, hence for its control, spray Emamectin Benzoate 5% SG 200 gm/hectare or Dimethoate 30% EC 1.0 litre/hectare by mixing it in 500-600 litres of water in clear weather.

Eastern Uttar Pradesh

- Keeping in view of rainfall during this week, farmers are advised to make proper arrangements for drainage in all vegetables, pulse, maize and nurseries of the crops. Farmers are also advised not to do any type of spray on the crops.
- The current weather is favorable for sheath blight in rice, hence if the outbreak is seen, apply Hexaconazole 5.0 EC. @ 1 litre in 500-750 litres of water.

Himachal Pradesh

595 mm (-19% deficit) rainfall was received over Himachal Pradesh from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Himachal Pradesh is excess for week 1 and normal for week 2.

- In mid hills of the state sowing of early-season pea varieties is advised. The varieties recommended are Palam Triloki, Arkel, VL -7 and Matar Ageta. The crop should be sown at a spacing of 30 cm x 7.5 cm. Before sowing 20 tonnes well rotten FYM should be added to the soil along with 185 kg IFFCO (12:32:16) along with 50 kg MOP/ha.
- In the Mid Hills Sub Humid Zone, continue sowing spinach. Prepare beds for direct sowing and sow fenugreek, coriander, radish, carrot, and beetroot. Continue transplanting of cabbage and cauliflower. Undertake sowing of early varieties of pea. Keep the bunds of the rice field clean by removing weeds

Jammu

408 mm (-26% deficit) rainfall was received over Jammu from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Jammu is a excess for week 1 and normal rainfall for week 2.

- Do not allow water to stagnate in pearl millet fields. Due to enough moisture availability, sowing of *toria* crop in *kandi* area as well as irrigated area is recommended where harvesting of kharif crop is over after receipt of rain when the soil is in *vattar* condition.
- Due to the forecast of rainfall, farmers are advised to postpone harvesting of coarse rice till weather gets clear. Farmers are advised to assure the supply of irrigation at flowering in early and timely sown basmati crop.
- Due to the chances of rainfall, farmers are advised to postpone harvesting of early sown pearl millet crop till weather gets clear.

Rajasthan

919 mm (47% excess) rainfall was received over East Rajasthan from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over East Rajasthan is large excess for week 1 and excess for week 2.

- Keeping in the view of rainfall forecast in next few days, farmers are advised to do proper arrangement for storing rain water at one portion in the field; this water can be used for irrigation in the crops at suitable time during dry spell. Before spraying insecticides and weedicides, ensure that there is no rain for 3 to 4 hours. Otherwise postpone the spray
- Farmers are also advised to undertake transplanting of chilli, brinjal and early Cauliflower on raised bed. Do proper arrangement for drainage and water harvesting from the fields. The farmers are advised to keep the cotton field, soybean field free from weeds and insect pests. Farmers are advised to adopt proper weed, pest management & cultural operations; apply nitrogen in transplanted rice fields

Haryana

417 mm (-3% deficit) rainfall was received over Haryana from 01 June to 29 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (27 September - 03 October 2024 and 04 October - 10 October 2024) over Haryana is a large excess for week 1 and week 2.

- Due to forecast of large excess rainfall during this week, it is advised to withhold irrigation, agronomic practices and chemical applications in cotton, rice, sugarcane vegetable crops etc. and Cover the plants with shade net due to prediction of heavy rain.
- Do not let the moisture accumulate inside the animal sheds and in order to prevent this open the windows of shed during day time. This will allow sunlight inside and keep the shed ventilated so that occurrence of respiratory diseases is prevented.

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