



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 03 September 2024**

आधारित/**based on**

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

वैधता/**Validity: 30 August - 12 September 2024**

जारीकर्ता/**Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

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Earth System Science Organization

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

Realized Rainfall
(15th to 28th August, 2024)

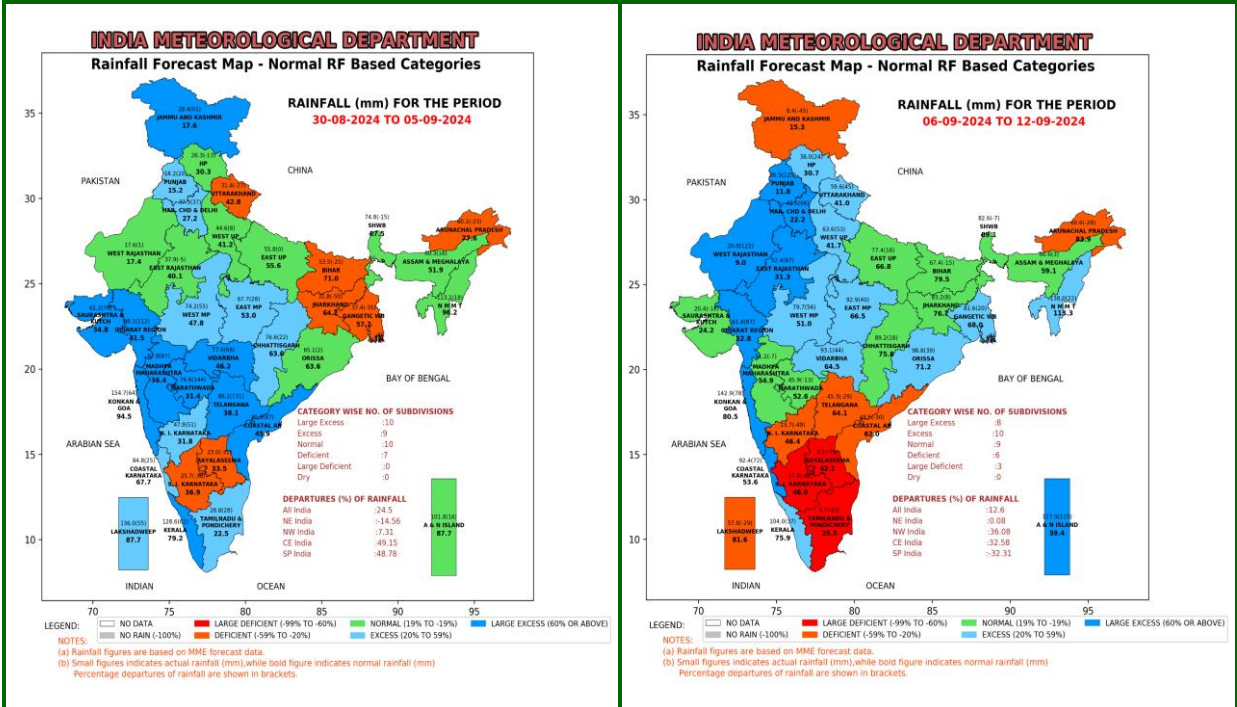


- Normal or above normal rainfall occurred in both weeks over Uttarakhand, Punjab, East Uttar Pradesh, Jharkhand, Nagaland Manipur Mizoram & Tripura (NMMT), Rajasthan, Madhya Maharashtra, Marathwada, Telangana, North Interior Karnataka and Lakshadweep.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Haryana Chandigarh & Delhi, Gangetic West Bengal, Assam & Meghalaya, Gujarat State, Madhya Pradesh, Chhattisgarh, Odisha, Konkan & Goa, Vidarbha, Rayalaseema, South Interior Karnataka, Coastal Karnataka, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both weeks over West Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam and Kerala & Mahe.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 28th August, 2024)

(30th August to 12th September, 2024)



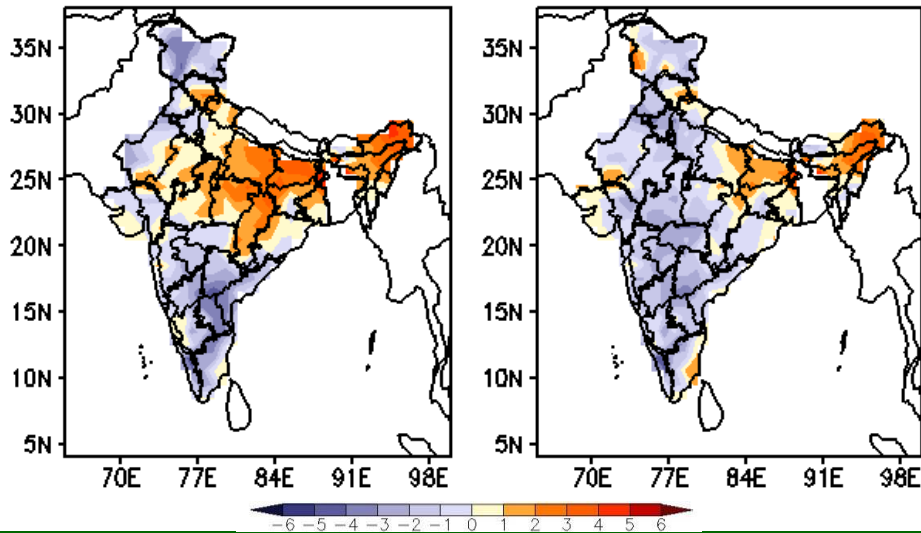
- **Week 1 (30.08.2024 to 05.09.2024):** Rainfall is likely to be close to normal over most parts of the country. However, it is likely to be above normal over Gujarat, Maharashtra, West Madhya Pradesh, regions along west Coast, Andaman Islands and Lakshadweep, some parts of Telangana and adjoining Coastal Andhra Pradesh and below normal over Jharkhand, Gangetic West Bengal and Arunachal Pradesh.
- **Week 2 (06.09.2024 to 12.09.2024):** Rainfall is likely to be normal to above normal over regions along west coast, some parts of Central India, Northwest India and East India. However, it is likely to be below normal over Arunachal Pradesh and most parts of South India.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 28th August, 2024)
(30th August to 12th September, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 30Aug-05Sep)

(Week2: 06Sep-12Sep)



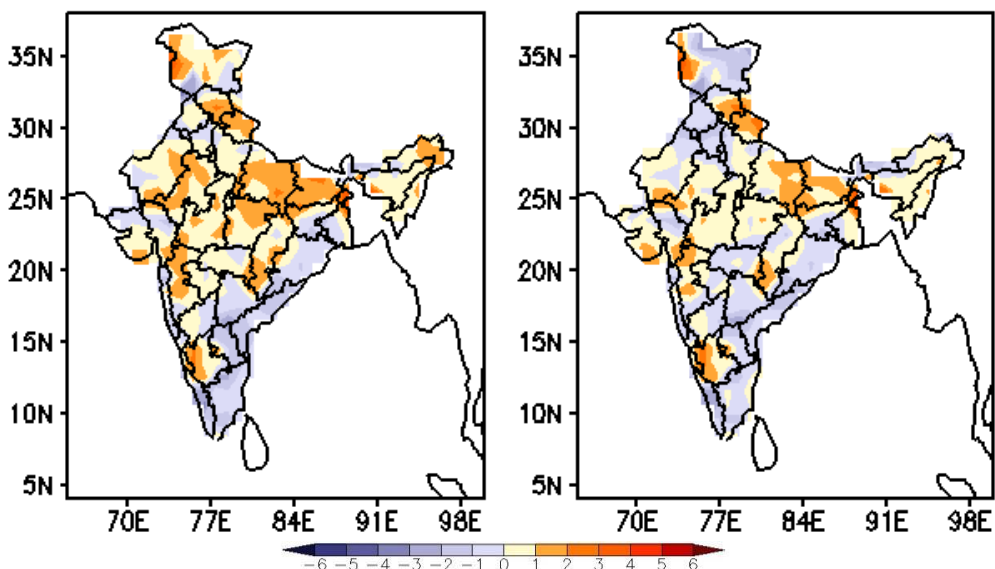
Maximum Temperature (Tmax)

- **Week 1 (30.08.2024 to 05.09.2024):** Maximum temperature is likely to be above normal over Northeast India, Bihar, Uttar Pradesh, Madhya Pradesh and Chhattisgarh.
- **Week 2 (06.09.2024 to 12.09.2024):** Maximum temperature is likely to be above normal over Bihar, East Uttar Pradesh, Arunachal Pradesh and Assam.

MME forecast Tmin anomaly (Deg C)

(Week1: 30Aug-05Sep)

(Week2: 06Sep-12Sep)



Minimum Temperature (Tmin)

- **Week 1 (30.08.2024 to 05.09.2024) and Week 2 (06.09.2024 to 12.09.2024):** Minimum temperature likely to be above normal over most parts of Northwest India, Northeast India, Chhattisgarh, Gujarat, Madhya Pradesh, Madhya Maharashtra and Karnataka.

Strategic Agricultural Planning based on rainfall till 12 September 2024

Agromet Advisories

Kerala

1588 mm (-10% deficit) rainfall was received over Kerala from 01 June to 01 September 2024. The extended range weather forecast (rainfall) for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is large excess rainfall for week 1 and excess for week 2.

- Due to the forecast of above-normal rainfall during the week it is advised to postpone the sowing of seeds of any crops; if already sown, avoid water stagnation in the field and cover the seeded area with natural mulching materials like straw, farm residues, etc.
- Proper drainage facilities must be ensured. Pesticides should not be applied during rainy periods.
- Provide support to banana crops. Make the vegetable pandals stronger. To protect farmers and livestock from lightning and thunder avoid standing in open areas.
- In places where flooding occurs, there are chances of blight disease resulting in the decaying of paddy plants; as a precautionary measure, place perforated bags containing bleaching powder @ 2kg/acre, at the face of water entry into the fields.

Tamil Nadu

349 mm (61% large excess) rainfall was received over Tamil Nadu from 01 June to 01 September 2024. The extended range weather forecast (rainfall) for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is excess rainfall for week 1 and deficit for week 2.

- Due to anticipated light drizzling and high cloud cover, top dressing of nitrogen through soil application will not be effective. Hence spray 1% urea in rice.
- Prevailing high wind speed may damage the banana crop. Farmers are advised to do propping. Proper drainage and earthing up may be practised to avoid lodging.
- Provide drainage facility in garlic crop. Postpone the intercultural/plant protection activities such as fertilizer and pesticide application until the rain stops.
- Due to continuous rainfall stem rot disease may be appear in groundnut field. Therefore, it is advised to provide proper drainage facility in groundnut fields and for management, farmers are advised to apply Carbendazim 25 %+ Flusilazole 12.5% SE@1.5ml/litre

Karnataka

706 mm (31% excess) rainfall over South Interior Karnataka; 3368 mm (20% excess) rainfall over Coastal Karnataka and 414 mm (19% excess) rainfall over North Interior Karnataka was received from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is excess rainfall over Coastal Karnataka and North Interior Karnataka and deficit rainfall over South

Interior Karnataka for week 1 and; large excess rainfall over Coastal, deficit rainfall over North Karnataka and large deficit over South Karnataka during week 2.

South Interior Karnataka

- Deep ploughing is recommended in mango orchard to conserve soil moisture and incorporate crop residue in soil.
- Intercultural operation in red gram, maize and groundnut are recommended.
- Due to high wind speed it is advised to postpone the spraying operation in agricultural and horticultural crops.
- Wind speed is high therefore it is advised to provide staking support to Banana and vegetable crops to protect from uprooting of crops.

North Interior Karnataka

- Since from last two weeks the isolated districts have experienced below-normal rainfall. Therefore, it is advised to take up sowing of late kharif crops as soon as the condition permits depending on the soil type. Sunflower: *RSFH-130, 1886, KBSH-44, 41, 53*- II FN of August to September, Horsegram: *GPM-6*-June-September.
- Due to the forecast of above-normal rainfall during this week, supplementary irrigation to the crops suffering from moisture stress conditions may be postponed.
- Due to high cloudy conditions and rainfall, there is a chance of occurrence of Anthracnose disease in grapes. To manage Anthracnose disease, spraying of Thiophanate methyl @ 1 g/litre of water. Carbendazim 50% WP@0.5g/litre water (300gram/ha) or Iprodione 50% WP@2gram/litre water (1kg/ha).
- To manage powdery mildew disease in green gram/black gram crop it is advised to spray the crop with Penconazole 10% EC@5ml/10 Litre water (500 L/ha)

Andhra Pradesh

402 mm (44% excess) rainfall was received over Rayalaseema, and 641 mm (43% excess) was received over Coastal Andhra from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is deficit rainfall over Rayalaseema and large excess rainfall over Coastal Andhra Pradesh for week 1 and; a large deficit over Rayalaseema and deficit over Coastal Andhra Pradesh for week 2.

- Farmers are advised to practice soil moisture conservation practices in rainfed groundnut. Form conservation furrows at the time of sowing or 20-30 days after sowing for one row every 3.6 m.
- The present weather conditions are favourable for thrips attack in groundnut. To control thrips spray Isocycloseram 9.2% DC@1ml/litre water or Imidacloprid @ 0.3 ml/L of water

- Rice crop is at nursery to transplanting stage grown in Rayalaseema districts of Andhra Pradesh. Farmers are advised to utilize the available soil moisture and take up transplanting of rice.
- In Krishna Godavari Zone, complete the sowing of red gram. During late sowings of the crop, maintain a high population by decreasing the spacing in between the lines.

Odisha

838 mm (-10% deficit) rainfall was received over Odisha from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is normal over Odisha for week 1 and; excess rainfall for week 2.

- Keeping rainfall forecast in mind farmers are advised not to do any type of spray and do proper drainage management in vegetable nurseries.
- Due to the prevailing cloudy weather associated with high humidity, regular monitoring for the occurrence of insects and diseases in crops is highly recommended.
- Keeping rainfall forecast in mind farmers are advised not to do any type of spray and do proper drainage management in pulse crops and vegetable nurseries.
- August and September are the optimum time for tomato planting. Grow tomato varieties like *Utkal Kumari (BT-10)*, *Utkal Deepti (BT-2)*, *Utkal Raja*, *Utkal Pragyan* and *Swarna Sampad*. For one acre planting 150 to 200 grams of seeds are required.

Maharashtra

886 mm (48% excess) rainfall over Madhya Maharashtra, 651 mm (31% excess) Marathwada, 3216 mm (27% excess) Konkan, and 932 mm (17% excess) rainfall over Vidarbha was recorded from 01 June to 01 September 2024. The extended range weather forecast (rainfall) for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is large excess rainfall over Konkan, Madhya Maharashtra, Vidarbha and Marathwada for week 1; and large excess rainfall over Konkan, normal over Madhya Maharashtra and Marathwada and excess over Vidarbha week 2, respectively.

Parbhani

- Due to forecast of above normal rainfall during this week, it is advised to make arrangements to drain out excess water from standing crops, vegetables and orchards.
- Undertake intercultural operations in sapota, pomegranate and vegetables during clear weather.
- For management of fall armyworm in *kharif* sorghum crop take a spray of Emamectin Benzoate 5 % @ 4 g or Spinetoram 11.7 SC @ 4 ml per 10 litres of water during clear weather.
- The water logging conditions with low temperature and high humidity favour the Pokkah Boeng disease occurrence in sugarcane crops. It is advised to spray Carbendazim 12% + Mancozeb 63% WP @ 50 g or Copper Oxychloride 50% WP 20 g per 10 litres of water with sticker 2-3 sprays for 10-12 days intervals during clear weather conditions.

Vidarbha

- In view of large excess rainfall, it is advised to arrange to drain excess water from rice, cotton, soybean, pigeon pea, orchards and vegetables and postpone spraying of pesticides, insecticides, weedicides and fertilizers.
- Maintain optimum water level of 3 to 5 cm in transplanted rice fields.
- Drain out the excess water from the cotton field. At whapasa, intercultural operations (weeding/hoeing) must be undertaken to improve soil aeration conditions. Opening of conservation furrows is advisable at 35-40 days stage after every two crop rows at hoeing by tying rope to hoe tine. Maintain 5 to 10 cm water level in rice fields at stem elongation and panicle initiation stage.

Madhya Maharashtra

- Due to continuous rainfall, remove excess water from the field where water is stagnated due to high intensity and heavy rainfall.
- Due to the forecast of above normal rainfall it is advised to provide mechanical support to vegetables and newly planted orchards. Maintain 3 to 5 cm water level in rice fields.
- For control of brown plant hopper in rice, it is advised to spray Dinotefuron 20% SG @ 0.4 gram/litre or carbosulfan 25 EC @ 1 ml/litre or Fipronil 5 SC @ 20 ml per 10 litres of water on a non-rainy day.

Konkan

- In view of heavy rainfall at isolated places at isolated districts, it is advised to drain out excess water from *kharif* crops, vegetables and orchards.
- In view of gusty winds, provide mechanical support to vegetables and newly planted orchards.
- Maintain optimum 5 – 10 cm water level in rice fields and undertake intercultural operations in green gram and black gram.
- Apply Paclobutrazol (cultural) for regular bearing in 10-year-old mango trees when intensity of rainfall is less.
- Apply 2nd split dose of nitrogen @ 850 g urea per guntha to turmeric followed by earthing up during less intense rainfall period.

Gujarat

943 mm (19% excess) rainfall was received over Gujarat from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Gujarat is large excess for week 1 and week 2.

- Due to forecast of large excess rainfall during this week, it is advised to make provision for draining out excess water from the tobacco nursery/field. Postpone/ avoid transplanting of tobacco crops till forecast of heavy rain.
- Also, postpone irrigation to crops such as castor, cotton, pearl millet, groundnut, sesame and maize.

- In cotton to prevent para wilt infestation immediately drain out excess rain water from field and Spray 2 % Urea solution under clear weather/ Spray Cobalt Chloride @ 10 mg/ litre (10 ppm) on affected plants within few hours of onset of symptoms and/ or drench plants with a mixture of Copper-Oxy-Chloride 25 g and 200 g Urea in 10 litres of water or Carbendazim 50 WP 1 g/litres water and apply urea, Ammonium sulphate and Muriate of potash fertilizers each @ 30 kg/ha in cotton.

Chhattisgarh

977 mm (4% excess) rainfall was received over Chhattisgarh from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Chhattisgarh is excess rainfall for week 1 and normal for week 2.

- Rice crop is at tillering to booting stage in fields; undertake first top dressing with urea (40 kg/ha.) at the tillering stage of rice for healthy tillers 2-3 days after cessation of rains. After 20-25 days weed control is advised in the late translating rice crop, spray Bispyribac sodium (10%) @ 250 ml /ha.
- Under prevailing weather conditions, mulching is advised in ginger, turmeric, elephant yam and taro root crops.
- In early transplanted rice, if the problem of thrips is noticed, go for neem-seed kernel-based insecticide like Azadirachtin 0.15% @ 1 lit/acre or spray Lambda-cyhalothrin 5% EC @ 100 ml/acre or Thiamethoxam 25 % WG @ 40 g/acre in 200 litres of water.

Madhya Pradesh

945 mm (8% excess) rainfall was received over East Madhya Pradesh from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Madhya Pradesh is excess rainfall for week 1 and week 2.

- Due to the forecast of above-normal rainfall during this week, crop lodging in sugarcane and maize plants may occur. Farmers are advised to upright the plants and tie them with the neighboring plants to prevent from lodging.
- Under prevailing weather conditions, ensure drainage arrangement in maize, soybean, cotton and sugarcane to avoid waterlogging caused due to heavy rains.
- This is the optimum time to plant new fruitful plants, hence, plant saplings of mango, guava, Amla, jamun etc. in the prepared pits and before planting, use earthworm manure, and neem cake for termites and drain off excess rainwater.

Assam

1336 mm (-8% deficit) rainfall received over Assam from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Assam is normal for week 1 and week 2.

- Gap filling is advised within 7-10 days in paddy after transplanting with seedlings of the same age. Insert around 7 numbers of bamboo 'T' perches in per bigha paddy crop field, which will act as a resting place for predatory birds that will devour insect larvae and egg

masses. Two weeding is also advised with paddy weeder or hoe at 20 and 40 days after transplanting.

- Sunny days/ high temperatures after continuous rainfall for a long period (1 to 2 weeks) during August are very conducive for a heavy infestation of rice hispa. Spraying with Chlorpyrifos 20 EC or Monocrotophos 40 EC @ 1.5 ml per litre of water is advised to control rice hispa.

West Bengal

792 mm (-14% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 1698 mm (11% excess) from 01 June to 01 September 2024. The extended range weather forecast (rainfall) for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is deficit rainfall over Gangetic West Bengal and normal over Sub-Himalayan West Bengal during week 1 and excess rainfall over Gangetic West Bengal and normal Sub-Himalayan West Bengal week 2.

- Due to the forecast of below-normal rainfall during this week, farmers are advised to irrigate the rice field wherever needed.
- To control sheath blight in rice crops, avoid the use of excess nitrogen fertilizer it is advised to drain out excess water from the infected field and spray Propiconazole + Difenconazole @ 1 ml/litre of water or Carbendazim + Flusilazole 1.5 ml/litre or Carbendazim @ 1 g/litre of water.
- Depending upon the soil moisture, continue main field preparations for sowing of black gram and green gram crops; for sowing over one bigha, use 3-5 kg of seeds; withhold sowing if soil moisture is high and heavy rainfall occurs.

Jharkhand

727 mm (-11% deficit) rainfall received over Jharkhand from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Jharkhand is deficit rainfall for week 1 and normal for week 2.

- If outbreaks of yellow mosaic virus are observed in tomato crops it is advised to use sticky traps @ 3 to 5 per acre in the fields; uproot the infected plants and throw them away so that they do not spread infestation to other crops.
- Farmers who want to cultivate Kulthi should sow any one of its improved varieties such as, *Indira Kulthi-1*, *BLG-19* or *Birsa Kulthi-1*. 8 to 10 kg of seed is required for sowing in one acre. To prepare the field, plough the field thoroughly with an indigenous plough 2 to 3 times. Choose the upper land which has a good drainage facility. Sow the seeds behind the plough at 30 cm (row to row) and 15 cm (plant to plant).

Uttar Pradesh

491 mm (-12% deficit) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 555 mm (-14% deficit) from 01 June to 01 September 2024. The extended range weather forecast (rainfall) for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) is normal over Eastern Uttar Pradesh and Western Uttar Pradesh during week 1 and normal over Eastern Uttar Pradesh and excess Western Uttar Pradesh for week 2.

Western Uttar Pradesh

- As per extended range weather forecast, normal rainfall and temperature forecast during 30 August to 12 September, 2024 in Central and Western zone of Uttar Pradesh therefore, farmers are advised no need of irrigation in paddy field farmers are advised after weeding top dressed 1/4 Urea at tillering stage. Farmers are also advised to watch out for insects and pests due to hot and warm weather conditions during this week.
- The second topdressing of urea in maize crop may be done @ 60 to 70 kg per hectare at the time of tasselling stage in case of no rain.
- For the control of stem borer/shoot fly in sorghum crop, spray Emamectin Benzoate 5% SG @ 0.4g/litre (200g/ha) or Dimethoate 30% EC @ 1.0 litre/hectare mixed in 500-600 litres of water during clear weather.

Eastern Uttar Pradesh

- For the control of stem borer, leaf roller, banka insect and hispa in rice, Carbosulfan 25% EC@1ml/liter or Bifenthrin 10 % EC @ 1 ml or Quinalphos 25 % EC @1.5ml litres or Cartap hydrochloride 50 SP @ 1gram per litre water.
- For effective control of Fall Army Worm in maize at 10-20% damage, spray Chlorantraniliprole 18.5 % SC 0.4 ml or Spinosad @ 0.3 ml or Thiamethoxam 12.6 % + Lambda cyhalothrin 9.5 % @ 0.5 ml per litre of water.

Himachal Pradesh

488 mm (-22% deficit) rainfall was received over Himachal Pradesh from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Himachal Pradesh is normal for week 1 and excess for week 2.

- Keep the colonies of honeybees in shady places and protect them from heavy showers of rain. Insert the brood chamber without a frame to ensure aeration. Dust Sulphur on sealed brood in the colony and not on larvae to control mites attack on honeybees.
- In the standing crop of soybean, moong, urad, if the outbreak of whitefly-sucking insects is high, then spray the approved insecticides for control when the sky is clear.
- Tea plucking at 8-10 days intervals is advised to maintain quality and productivity. Monitor for mites and Milli bug expected in the orchards in present climate conditions, for control of mealy bug spray recommended chemicals.
- Conditions are favourable for the development of stalk rot in maize. To prevent this disease excess water from the fields should be drained off. Also, the field should be drenched with bleaching powder @ 16.5 kg/ha (650 g / kanal).

Jammu

353 mm (-23% deficit) rainfall was received over Jammu from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Jammu is large excess for week 1 and deficit rainfall for week 2.

- Due to the forecast of above-normal rainfall during this week, it is advised to maintain proper drainage channels in the brown sarson, oat, wheat, pea, lentil and vegetable fields to avoid water stagnation. Resume field operations only after the weather improves and the soil becomes workable.
- In Chrysanthemums do not allow water logging conditions in the field by proper drainage and protect young seedlings from rotting.
- If the attack of Bacterial Leaf Blight (tip burning) is observed in rice, apply Streptocycline Sulphate @ 1.0 g/10 litres of water

Rajasthan

741 mm (36% excess) rainfall was received over East Rajasthan from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over East Rajasthan is normal for week 1 and a large excess for week 2.

- Keeping because of the above-normal rainfall forecast during this week, farmers are advised to properly manage drainage in standing crops and vegetable nurseries. Farmers are advised to take care of excess water in millets.
- Farmers are also advised to undertake transplanting of chilli, brinjal and early cauliflower on raised beds. Make proper arrangements for drainage and water harvesting from the fields.
- The farmers are advised to keep the cotton field, and 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

312 mm (-14% deficit) rainfall was received over Haryana from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Haryana is excess for week 1 and large excess for week 2.

- Keeping in the view of above normal rainfall forecast during this week, farmers are advised to proper management of drainage in standing crops and vegetable nurseries. Before spraying insecticides and weedicides, ensure that there is no rain for 3 to 4 hours. Otherwise postpone the spray.
- Avoid plant protection measures in cotton. Pest monitoring should be done, if population of insects above ETL farmers are advised to install pest-specific pheromone traps in the fields for control of the insect population

Punjab

277 mm (-25% deficit) rainfall was received over Punjab from 01 June to 01 September 2024. The extended range weather forecast (rainfall) provided for the next two weeks (30 August - 05 September 2024 and 06 September - 12 September 2024) over Punjab is excess for week 1 and large excess for week 2.

- As forecast of above normal rainfall for next two weeks and do not irrigate the paddy crop. Do not keep water standing in paddy field, irrigation is advised two days after the ponded

water has infiltrated into the soil but fields should not be allowed to develop cracks. Remove stagnant rainwater to maintain water level and avoid inundation of young seedlings.

- As rainfall is expected in the coming days it is advised to drain away the excess water from the sugarcane field. To prevent lodging, prop up the crop at the end of August by using trash twist method.

Disclaimer:/अस्वीकरण:

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