



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 06 August 2024**

आधारित/ **based on**

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

वैधता/ **Validity: 02 August - 15 August 2024**

जारीकर्ता/ **Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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Indian Council of Agricultural Research (ICAR)

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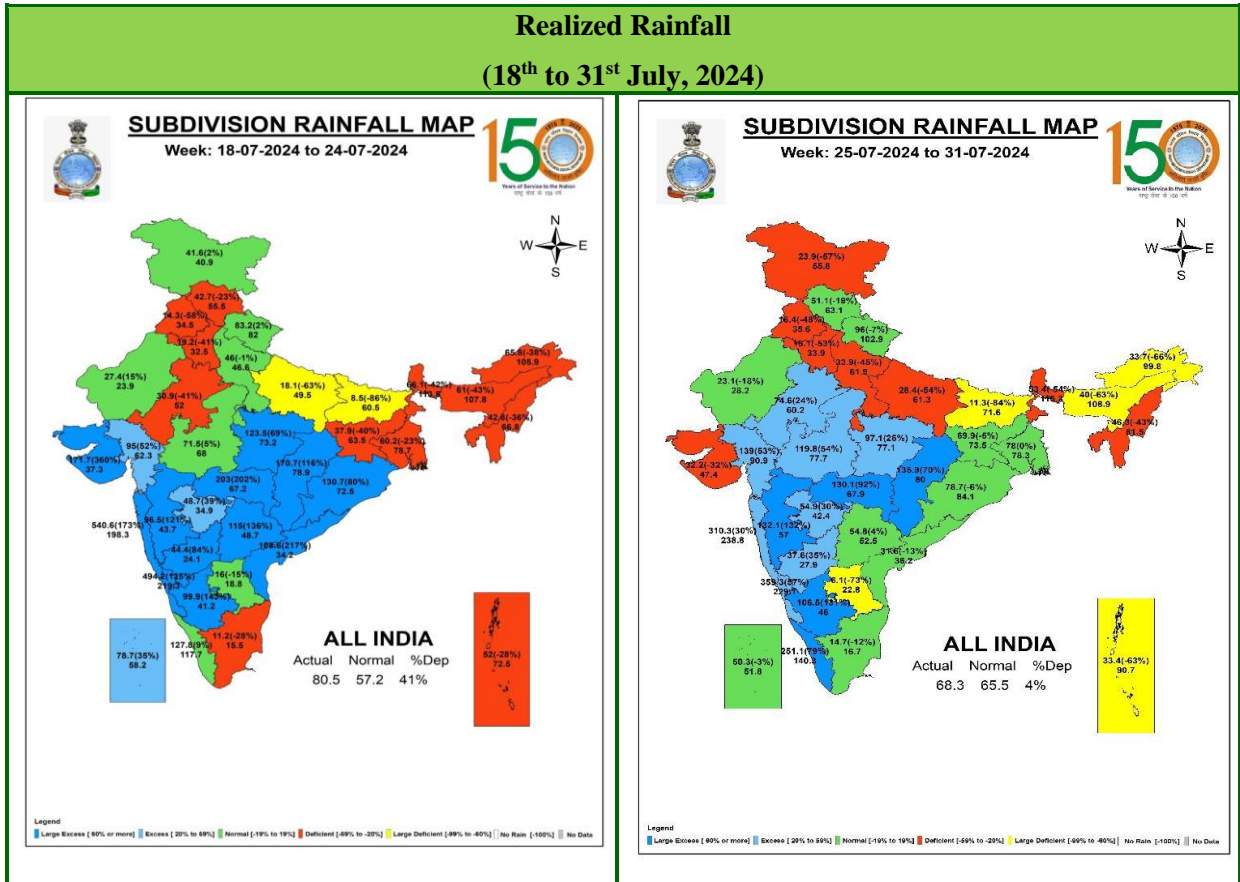
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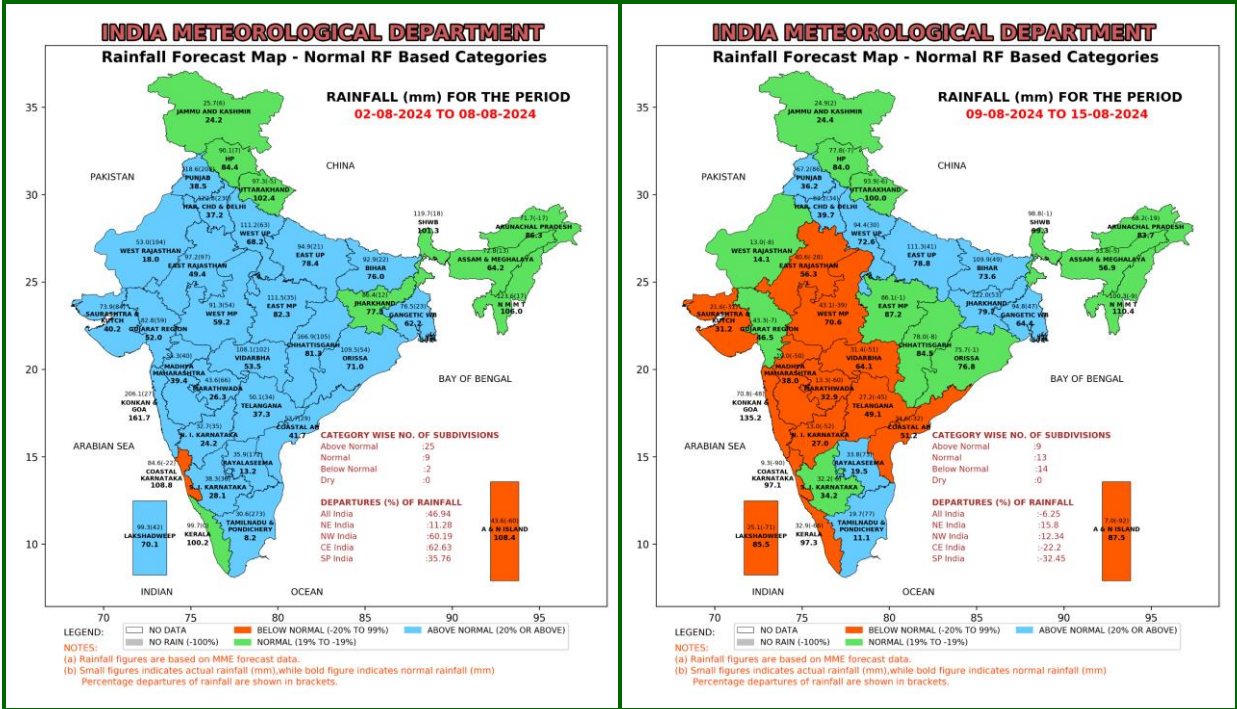
Realized Rainfall and Extended Range Forecast



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

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 31st July, 2024) (02nd to 15th August, 2024)



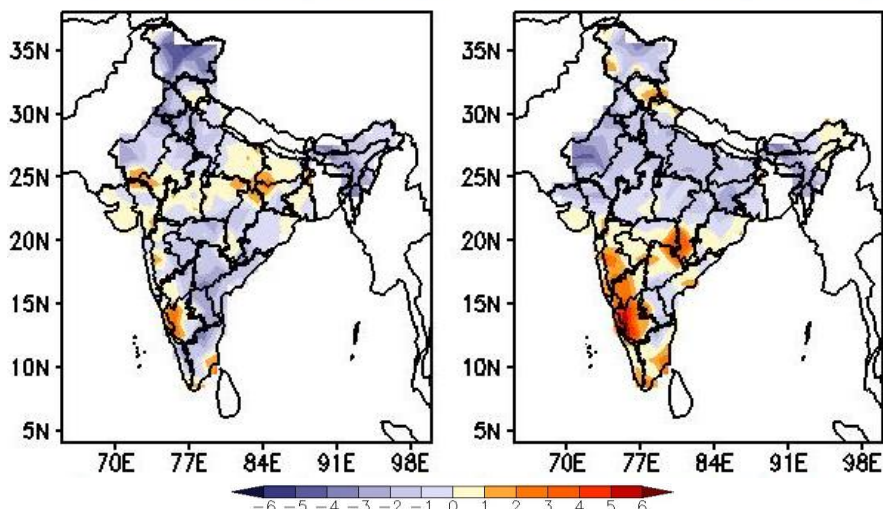
- **Week 1 (02.08.2024 to 08.08.2024):** Rainfall is likely to be above normal over most parts of the country.
- **Week 2 (09.08.2024 to 15.08.2024):** Rainfall is likely to be above normal over Northwest India and Indo Gangetic Plains. However, it is likely to be below normal over Central India, Northeast India and along the West coast.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 31st July, 2024)
(02nd to 15th August, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 02Aug-08Aug)

(Week2: 09Aug-15Aug)



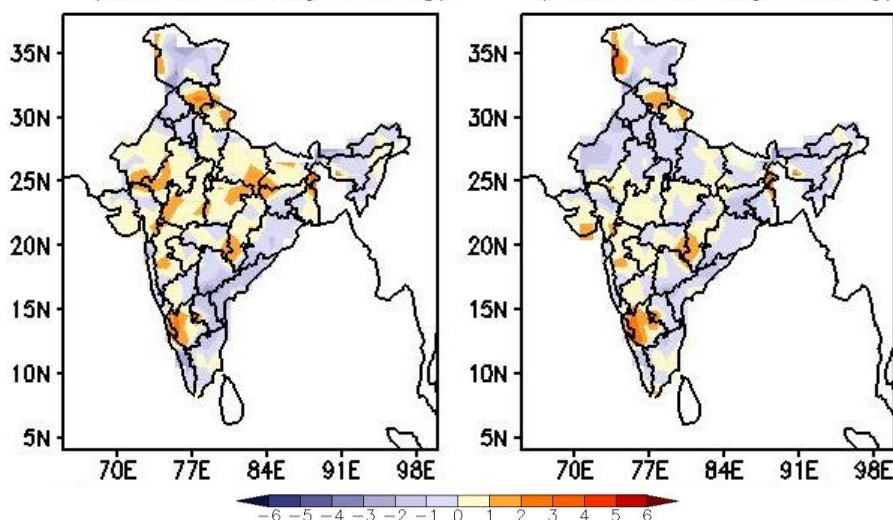
Maximum Temperature (Tmax)

- **Week 1 (02.08.2024 to 08.08.2024):** Maximum temperature is likely to be normal to below normal over most parts of the country.
- **Week 2 (09.08.2024 to 15.08.2024):** Maximum temperature is likely to be above normal over South India and some parts of Central India. It is likely to be below normal over Northwest India, East India and Northeast India.

MME forecast Tmin anomaly (Deg C)

(Week1: 02Aug-08Aug)

(Week2: 09Aug-15Aug)



Minimum Temperature (Tmin)

- **Week 1 (02.08.2024 to 08.08.2024):** Minimum temperature likely to be slightly above normal over parts of Northwest India, Central India, East India and Karnataka.
- **Week 2 (09.08.2024 to 15.08.2024):** Minimum temperature likely to be slightly above normal over parts of Maharashtra, Madhya Pradesh, Chhattisgarh, Gujarat, Himachal Pradesh and Uttarakhand. It is likely to be above normal over parts of Karnataka.

Strategic Agricultural Planning based on rainfall till 15 August 2024

Agromet Advisories

Kerala

1015 mm (-4% deficit) rainfall was received over Kerala from 01 June to 04 August 2024. The extended range weather forecast (rainfall) for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is normal rainfall for week 1 and below normal for week 2.

- In the Northern Zone, drain out excess water from the cultivated areas where heavy water stagnations occur. In places where flooding occurs, there are chances of blight and decaying of plants in paddy. As a precautionary measure, place perforated bags containing bleaching powder (2 kg/acre) on the face of water entry into the fields.
- During the rainy season, rhizome rot in banana is possible. As a prophylactic measure, drench the basin with 3 litre of pseudomonas solution (20 g per one litre of water).
- During the rainy season, there is a chance of downy mildew attack in cucurbitaceous vegetables. To protect, it is advised to spray 2.5 g Mancozeb per one litre of water under the leaves.
- During the rainy season, there is a chance of leaf fall disease in nutmeg, As a prophylactic measure spray 1% Bordeaux mixture. Pesticide application is not advised during rain.

Tamil Nadu

192 mm (49% excess) rainfall was received over Tamil Nadu from 01 June to 04 August 2024. The extended range weather forecast (rainfall) for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal rainfall for week 1 and week 2.

- In Northern Eastern Zone, transplanting of rice varieties may be done utilizing the expected rainfall and provide proper drainage facility to the nursery field. Farmers are advised to undertake detrashing and propping in five months old sugarcane crops.
- Prevailing weather conditions are conducive for the tikka leaf spot in groundnut, spray Mancozeb @ 2.5 g per litre of water during non-rainy days.
- Prevailing weather is congenial for tobacco cutworm in brinjal, spray *Bacillus thuringiensis* @ 2 g/litre or Novaluron 10% EC @ 1 ml/litre or Flubendiamide @ 0.2 – 0.3 ml/litre

Karnataka

536 mm (42% excess) rainfall over South Interior Karnataka; 2860 mm (37% excess) rainfall over Coastal Karnataka and 280 mm (17% excess) rainfall over North Interior Karnataka was received from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is below normal over Coastal Karnataka; above normal over South Interior Karnataka and North Interior Karnataka for week 1 and; below normal over Coastal and North Karnataka and normal over South Karnataka during week 2.

South Interior Karnataka

- Wherever, the long-duration crops like red gram, and castor have been sown, undertake earthing-up operations in addition to the above agronomic measures. Earthing up makes a

better availability of soil moisture to the crop rows through the conversion of the land into ridges and furrow systems.

- Due to high wind speed, postpone the spraying operation in agriculture and horticultural crops and provide mechanical support to banana and staking to vegetable crops to protect from the uprooting of crops
- Undertake transplanting of paddy seedlings and sowing of cowpea and black gram.
- The following crops are suggested for sowing:
 - Finger millet: *GPU-28, 45,48 and 66, ML-365*
 - Cowpea: *TVX-944, KBC-1*, Green gram: *PS-16, PDM-84, 178*
 - Black gram: *Karagao-3, T-9, Rashmi (LBG-625)*.

Andhra Pradesh

236 mm (35% excess) rainfall was received over Rayalaseema, and 405 mm (39% excess) was received over Coastal Andhra from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal over Rayalaseema and Coastal Andhra Pradesh for week 1 and; below normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week 2.

- As no rainfall was observed during the last 20 to 25 days, therefore, where ever irrigation facilities are available advised to give one supplementary irrigation to the groundnut at flowering stage. Farmers are advised to take up contingent crops suitable for sowing in red soils for August: jowar, green gram, bajra, cowpea, red gram, horse gram and castor. Contingent crops suitable for sowing in black soils for August: jowar, foxtail millet, green gram, red gram and castor. Farmers are advised to practice soil moisture conservation practices in rainfed crops.
- In North Coastal Andhra Pradesh, undertake transplanting of the rice and ragi nurseries, utilize the moisture after rains and incorporate the green manure crop into the soil.
- To control weeds in groundnuts which become dominant due to the rains, spray Imazethapyr @ 300 ml/acre at 20 days.
- Farmers who have not sown groundnut till the end of July may undertake sowing of alternate crops like bajra, kora, red gram, castor and field bean.

Odisha

537 mm (-11% deficit) rainfall was received over Odisha from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal over Odisha for week 1 and; normal for week 2.

- Due to the forecast of above-normal rainfall during this week, farmers are advised to make provisions for draining out excess rainwater from non-paddy crops and keep the drain ends open. Cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangement.

- Prevailing weather is optimum for the planting of Papaya. High-yielding varieties for papaya are *Honeydew*, *Coorg honey dew*, *CO-1*, *CO-2*, *Pusa delicious*, *Pusa majesty* and *Pusa giant*. Plant the seedling at a 2.5 x 2.5-meter distance and 0.5 x 0.5 x 0.5-meter pit.
- To manage red rot disease in sugarcane, it is advised to spray Carbendazim 12%+ Mancozeb 63 % WP @ 400-gram/acre or Metalaxyl 8 % + Mancozeb 64 % @ 400-gram/acre by mixing it in 200-litre of water.

Maharashtra

624 mm (49% excess) rainfall over Madhya Maharashtra, 409 mm (25% excess) Marathwada, 2667 mm (41% excess) Konkan, and 721 mm (37% excess) rainfall over Vidarbha was recorded from 01 June to 04 August 2024. The extended range weather forecast (rainfall) for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal rainfall over Konkan, Madhya Maharashtra Vidarbha and Marathwada for week 1; and below normal over Konkan, Madhya Maharashtra and Marathwada and Vidarbha for week 2, respectively.

Parbhani

- Due to the forecast of above-normal rainfall in isolated places of Marathwada region, it is advised to make arrangements to drain out excess water from kharif crops, orchards and vegetables. Undertake intercultural operations in cotton, pigeon pea, black gram and green gram at *whapasa* conditions during clear weather.
- Undertake intercultural operations in cotton, pigeon pea, black gram and green gram at *whapasa* conditions 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 conditions.
- To control stem borer in sugarcane, spray Chlorpyrifos 20% @ 25 ml or Chlorantraniliprole 18.5 % @ 4 ml per 10 litres of water after three days during clear weather conditions

Vidarbha

- In view of realized rainfall during the last 2-3 days and the forecast of above-normal rainfall during this week at isolated places, it is advised to postpone the intercultural operations (weeding/hoeing), agrochemical application and fertilizer application in standing crops, drain out excess water from soybean, cotton, pigeon pea, vegetables, and orchards.
- Undertake nursery sowing of onion, chilli, tomato and brinjal after the current spell of rain.
- Undertake nipping in 40-50 days old pigeon pea at *whapasa* condition after the current spell of rain.

Madhya Maharashtra

- *In situ* moisture conservation practices are advised to follow by preparing compartmental bunding of size 10 x 10 m or 6x6 m apart or by preparing ridges and furrows across the slope in the land reserved for *rabi* cultivation.
- Due to continuous rain, cloudy and humid weather and improper drainage of water from the field, sap-sucking pests and para wilt disease may be observed in 15 days cotton, for control spray 5% neem ark against sapsucking pests and carry out drenching of Copper

Konkan

- In view of realized rainfall and expected heavy to very heavy rainfall with extremely heavy falls at isolated places, postpone transplanting of rice, finger millet and vegetables in Ratnagiri, Raigad and Palghar districts.
- There is a forecast for heavy to very heavy rainfall, make arrangements for draining out excess water from the orchard to avoid stagnation of rainwater near the stem portion of newly planted.
- Due to cloudy weather there is a possibility of incidence of blue beetle in rice, to control spray Quinalphos 25 EC @ 20 ml or Lambda-cyhalothrin 5 EC @ 5 ml per 10 litres of water during clear weather.

Gujarat

551 mm (5% excess) rainfall was received over Gujarat from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Gujarat is above normal for week 1 and normal for week 2.

- Due to the forecast of above-normal rainfall during this week, postpone the application of pesticide, weedicide, insecticide and fertilizer in the cotton. Arrange drainage facilities to remove excess rainwater from standing cotton fields.
- Under prevailing weather conditions, it is advised to continue transplanting of chilli, tomato and brinjal seedlings. Undertake sowing of early and medium-late varieties of pigeon pea at optimum soil moisture.
- To prevent Alternaria blight disease infestation of cotton, spray Mancozeb 75 % WP 27 g in 10 litres of water as a precautionary measure under a clear sky.

Chhattisgarh

702 mm (15% excess) rainfall was received over Chhattisgarh from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Chhattisgarh is above normal for week 1 and normal for week 2.

- Transplant 2-3 rice seedlings per hill at a depth of 2-3 cm with maintaining the spacing of 15 cms x 10 cms for early varieties and 20 cm x 10 cm for medium to late duration varieties. If a green manuring crop has been sown, mix the crop 4-6 days before transplanting. Biasi should be done in rice crop after completion of 20-25 days age of rice seedlings.
- Undertake sowing of soybean, pigeon pea, green gram, black gram, maize, finger millet & kutki at optimum soil moisture conditions after current spells of heavy rain.
- To control the weeds in 18-20 days old rice crop [sown by dry sowing method], spray Bispyribac sodium 10% SC @ 250 ml /ha. or Phenoxyprop-p-ethyl 9.3% @ 625 ml per ha during clear weather.

Assam

1058 mm (-3% deficit) rainfall received over Assam from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Assam is normal for week 1 and week 2.

- Farmers are advised to collect short-duration rice varieties like *Luit, Kapilee and Dishang* in advance and the seeds may be directly sows in the field during August after flood water recedes from the field in those areas where flood water as well as the stagnation water still in the field and if the water does not recede within July.
- In areas where rice nurseries were damaged due to flood, undertake re-sowing in nursery bed in upland areas. Select varieties like *Pankaj, Biraj, Andrew Sali, Solpona, Prasadbhog, Gitesh* etc. so that the seedlings of these varieties can be transplanted in the main field by 20th August.
- Rainy season is most favourable for mosaic and leaf curl disease in papaya plant. Protect the nursery with nylon net (60-80 mesh) to prevent infection by insect vectors and rouge out affected plants from the main field.

West Bengal

495 mm (-22% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 1432 mm (31% excess) from 01 June to 04 August 2024. The extended range weather forecast (rainfall) for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal rainfall over Gangetic West Bengal and normal over Sub-Himalayan West Bengal during week 1 and week 2.

- Maintain proper drainage channels to avoid water stagnation in the vegetable fields. Spray fertilizers, pesticides and herbicides on a clear sunny day.
- Above-normal rainfall is forecasted during this week. Therefore, extra irrigation is not required in paddy fields. Farmers are advised to transplant the kharif rice within this week. One-hand weeding can be done to check the weed proliferation.
- Transplant *kharif* rice in the monsoon dependent areas. Go for alternate planting (short duration pulses: Mung, Kalai etc.) within second week of August in case of deficit rainfall in an unirrigated area where transplanting is not possible due to insufficient rainfall.

Jharkhand

460 mm (-16% deficit) rainfall received over Jharkhand from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Jharkhand is normal for week 1 and above normal for week 2.

- In view of irregularity of rainfall in medium or low land, farmers can go for Aerobic paddy farming system in which paddy is directly sown (dry water-soaked seed) in the fields without puddling. Improved varieties for this – CR Dhaan 202 and CR Dhaan 204, which are 100 to 115 days' crop.
- Due to deficiency of rains if farmers have not been able to sow rice crop till now, choose short duration varieties of paddy in place of long duration varieties. Prefer inter-cropping instead of single paddy.
- Taking advantage of the rains in the coming days, farmers are advised to sow fodder crops for cattle by selecting any one of the following: *Napier IGFRI-6, 10, Berseem- Bardan, Maize- African Tall, Cowpea- Bandel Cowpea-1, 2*, etc. Take Napier-1200 slips, Berseem 12 kg, Maize 12 kg and Cowpea 16 kg per acre.

- Maize crop is highly sensitive to waterlogged conditions during Germinating to cobbing stage. Hence, drain out excess water from the field as early as possible. After cessation of rains apply booster dose of fertilizer. Weeds may be controlled after rainfall.

Bihar

372 mm (-31% deficit) rainfall received over Bihar from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Bihar is above normal for week 1 and week 2.

- If the paddy nursery is 20-25 days old, carry out transplanting in rows; use a balanced fertilizer. Make ridges for transplanting the prepared seedlings of brinjal, cauliflower and chilli; plant them on the ridges only.
- Transplanting of rice in low and medium land areas is advised. Farmers are advised to act to control of weeds in the rice field within 3 to 7 days of transplanting by spraying a solution of Butachlor @ 3.0 litres or Pretilachlor @ 1.5 litres or Pendimethalin @ 3.0 litres in 500-600 litres of water applicable for one hectare.
- Nursery sowing of chilli in raised seedbeds is advised. Improved varieties such as *Pant mirch-3*, *Krishna*, *Arka lohit*, *Pusa jwala*, *Pusa sadabahar*, *Punjab lal*, *Kashi anmol* and Hybrid varieties such as *Agni rekha*, *Kalyanpur chaman*, *Kalyanpur chatmatkar*, *BSS-267* of chilli are recommended for sowing in North Bihar. It is advised to treat the seeds with Thiram 75% dust before sowing.

Uttar Pradesh

334 mm (-4% deficit) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 348 mm (-16% deficit) from 01 June to 04 August 2024. The extended range weather forecast (rainfall) for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) is above normal over Eastern Uttar Pradesh and Western Uttar Pradesh during week 1 and week 2.

Western Uttar Pradesh

- During this week (02-15 August) there is a forecast of above-normal rainfall in central and western Uttar Pradesh therefore farmers are advised to plant short-duration paddy seedlings up to 07 August. Treating the seedlings with Trichoderma before transplanting is advised. Top dressed ¼ dose of Urea at tillering stage.
- For control of broad and narrow leaf weeds in rice, apply Bispyribac Sodium 10% SC @ 0.20 litres per hectare after 15-20 days of transplanting in 500 600 litres of water during clear weather.
- For effective control of top borer in sugarcane, use carbofuran 1 kg or Chlorantraniliprole @ 375 ml per ha. Undertake earthing up in autumn sugarcane.

Eastern Uttar Pradesh

- Under prevailing weather condition farmers are advised to plant Basmati rice varieties like *Pusa-1509*, *Pusa Basmati-1*, *Pusa-1121*, *Pusa-1692* etc. in the first half of August in eastern UP so that the quality and aroma of the grain can develop well. Plant 2 to 3 plants at a distance of 20 x 15 cm. After transplanting rice, immediately plant other plants in place of the plants that have rotted within three to five days so that one plant per unit can be ensured.

- To protect the sugarcane planted in autumn from falling, undertake weeding and earthing up.
- Sowing of ladyfinger in *kharif* (rainy season) is advised, use 10-12 kg per hectare and for hybrid varieties 5-8 kg seeds is sufficient.
- Undertake planting of mango, guava, litchi, amla, jackfruit, lemon, jamun, plum, banana and papaya saplings.

Himachal Pradesh

286 mm (-28% deficit) rainfall was received over Himachal Pradesh from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Himachal Pradesh is normal for week 1 and week 2.

- Heavy to rather heavy rainfall, landslides, cloudburst, mudflow and flood situations in different areas of the state (Date of occurrence: 29.07.2024, 30.07.2024 and 31.07.2024). The Farmers are advised not to go to crop fields near the banks of rivers. Ensure proper drainage of water in maize, soybean and vegetable fields.
- Transplant the healthy seedlings of early cauliflower (*Palam Uphaar, Improved Japanese, Pusa Deepali and hybrid varieties Megha and Barkha*).
- In high hilly intercultural operations and urea dose to peas, turnip, carrot, palak etc advised. Transplanting of cabbage, cauliflower broccoli and exotic vegetables is advised to complete.
- It is the time for nursery raising of mid-season cauliflower varieties like *Palam Uphar, Improved Japanese, Pusa Deepali, and Megha (F1)*. Prepare nursery beds of appropriate sizes having 3 m in length, 1 m in width and 10-15 cm raised above the ground surface.
- Plucking of tea leaves is advised at 7-8 days interval to maintain the quality and productivity. Monitor for mites and mealybug expected in the orchards in present climate conditions, for control of mealybug spray recommended chemicals.

Jammu

189 mm (-37% deficit) rainfall was received over Jammu from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Jammu is normal for week 1 and week 2.

- In view of rainfall forecast, avoid intercultural operations like hoeing and weeding in maize. Maize crop is highly susceptible to water logging, provide proper drainage in the fields to avoid water logging.
- Ensure staking with plastic string in tomato and cucurbits (bottle gourd, bitter gourd, sponge gourd and cucumber) to avoid losses from gusty winds.
- Farmers are advised to postpone irrigation in paddy crops (tillering stage) due to the chances of rainfall. Apply 2nd dose of nitrogenous fertilizer in 25-30 days old crop as top dressing during clear weather

Rajasthan

388 mm (16% excess) rainfall was received over Rajasthan from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August

2024 and 09 August - 15 August 2024) over Rajasthan is above normal for week 1 and below normal for week 2.

- Complete the sowing of cowpea, moth bean, green gram, and sesame. Undertake planting of ber, mango, citrus, pomegranate and anola.
- Due to the forecast of above normal rainfall, farmers are advised to do proper arrangement for rain water harvesting so that it is use for irrigation in the crops at suitable time during dry spell.
- For weed control in crop of soybean, it is advised to spray of Imazethapyr @ 100 g/600 litres of water at 15-20 days after sowing. Spray is advised only during clear weather.

Haryana

169 mm (-26% deficit) rainfall was received over Haryana from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Haryana is above normal for week 1 and week 2.

- In view of the anticipated vigorous monsoon activity during the next 2 weeks the irrigation in the crops (cotton, sugarcane mango orchards) may be withheld and make arrangements for excess water drainage, if required in case of heavy rainfall.
- Keep water standing in the paddy field only for 2 weeks and thereafter apply irrigation 2 days after the ponded water has infiltrated into the soil. Maintain proper drainage in the field and remove stagnant rainwater immediately after rainfall.
- Make proper arrangements for drainage in maize and pigeon pea fields.
- Regular surveillance of thrips, and whitefly in cotton should be done. If the infestation is severe then, apply foliar spray of Clothianidin 50 % WDG@ 1gram/10 liters or Dimethoate @ 6ml/10 liters water during clear weather

Uttarakhand

636 mm (-2% deficit) rainfall was received over Uttarakhand from 01 June to 04 August 2024. The extended range weather forecast (rainfall) provided for the next two weeks (02 August - 08 August 2024 and 09 August - 15 August 2024) over Uttarakhand is normal for week 1 and week 2.

- Drain out excess water from cucumber and tomato, to avoid water logging and rotting of the plants/fruits. Remove dead and decaying plant parts from the crop fields. Timely harvest of the matured tomato, capsicum, and cucumber fruits in order to avoid spoilage

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