



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

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

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जारीकर्ता/Issued by

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AICRP on Agro-Meteorology (AICRPAM)

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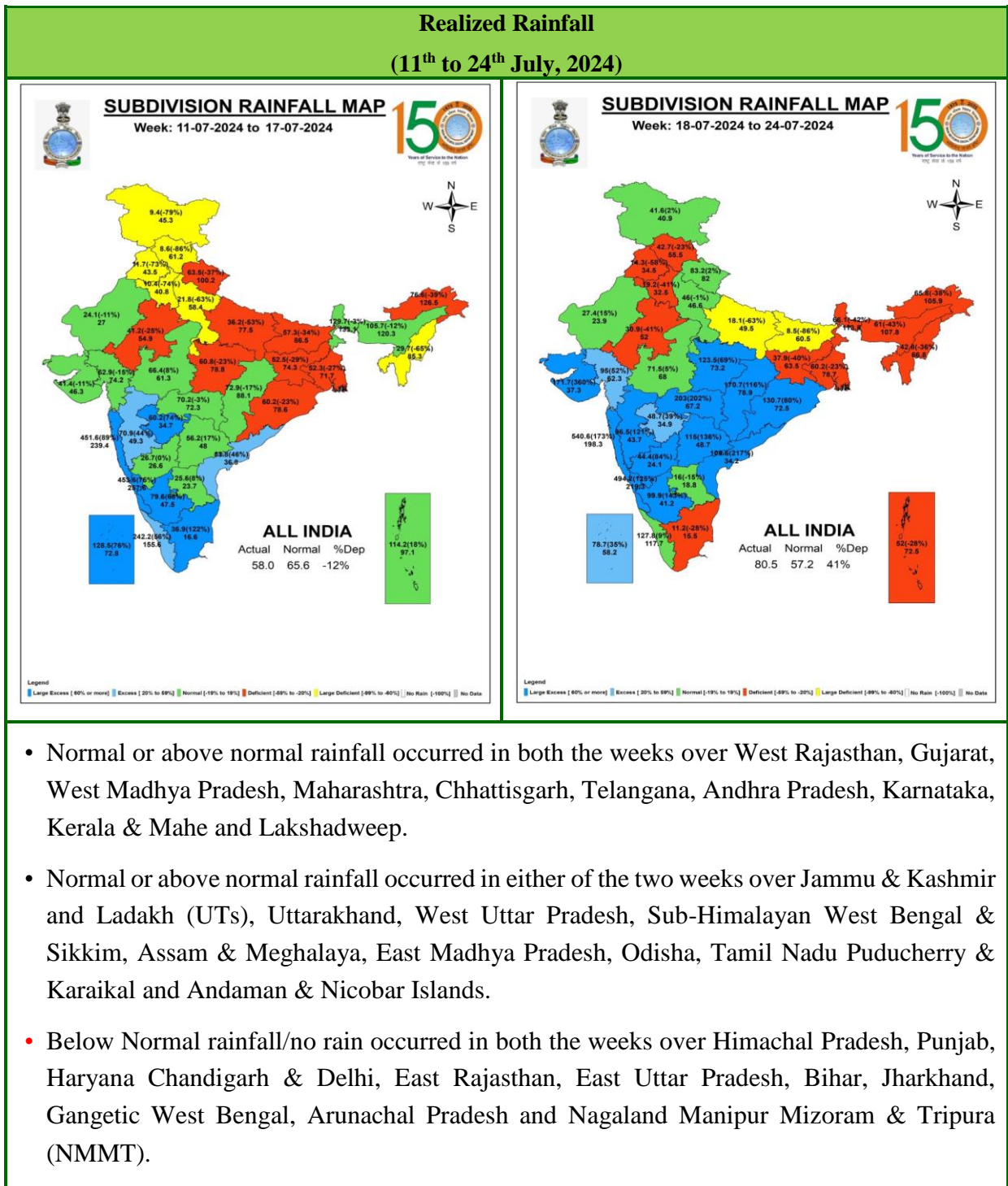
भारतीय मौसम विज्ञान विभाग

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पृथ्वी प्रणाली विज्ञान संगठन

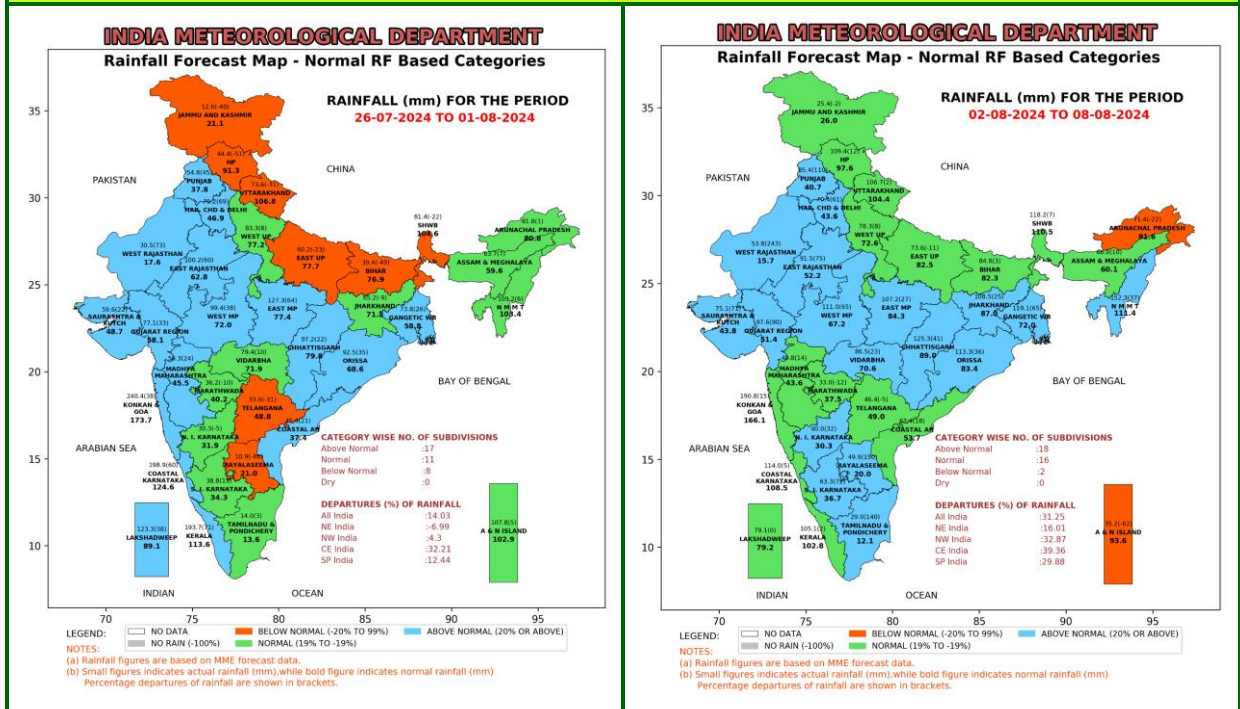
Earth System Science Organization

Realized Rainfall and Extended Range Forecast



Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 24th July, 2024) (26th July to 08th August, 2024)



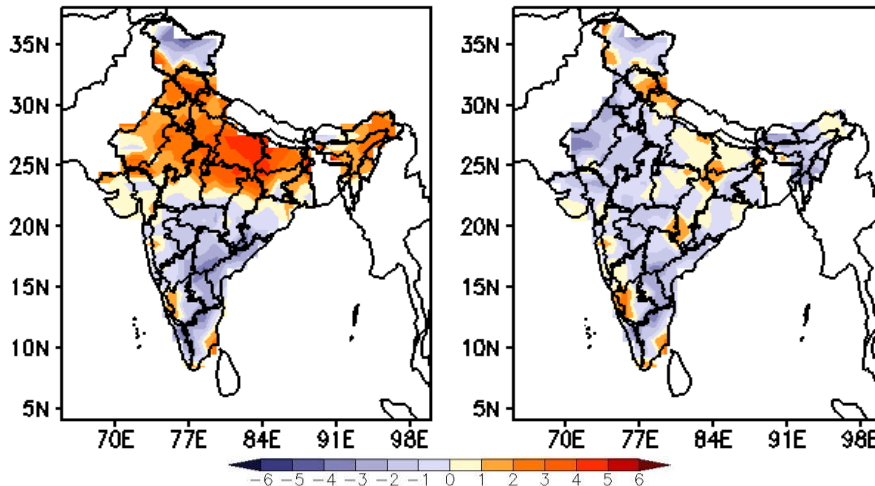
- **Week 1 (26.07.2024 to 01.08.2024):** Rainfall is likely to be above normal over regions along the West Coast; many parts of Central & Northwest India and some parts of East India. However, it is likely to be below normal over Tamil Nadu, Rayalaseema, Telangana, Jammu & Kashmir, Himachal Pradesh, Uttarakhand, East Uttar Pradesh and Bihar.
- **Week 2 (02.08.2024 to 08.08.2024):** Rainfall is likely to be above normal over most parts of Country except East Uttar Pradesh where it is likely to be below normal.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 24th July, 2024)
(26th July to 08th August, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 26Jul-01Aug)

(Week2: 02Aug-08Aug)



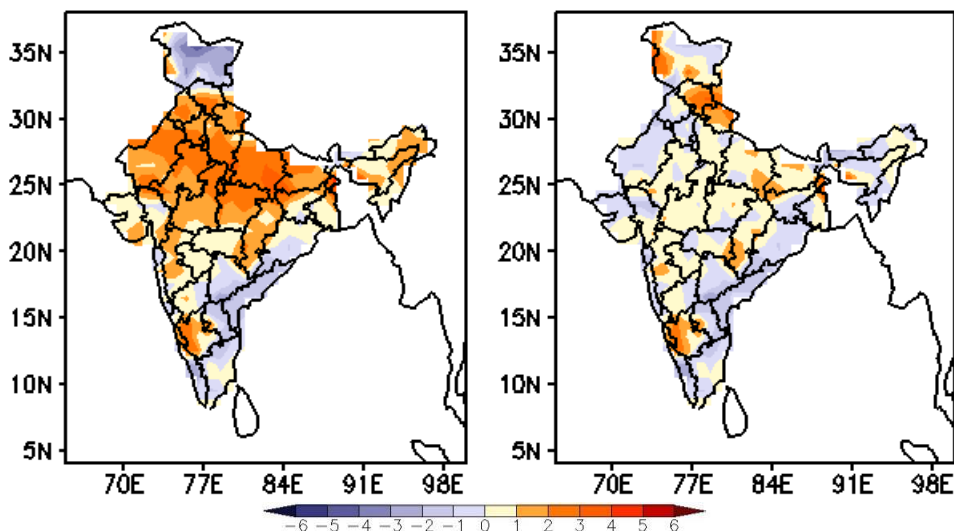
Maximum Temperature (Tmax)

- **Week 1 (26.07.2024 to 01.08.2024):** Maximum temperature is likely to be above normal over Northwest India, East India and Northeast India.
- **Week 2 (02.08.2024 to 08.08.2024):** Maximum temperature is likely to be below normal over most parts of the country.

MME forecast Tmin anomaly (Deg C)

(Week1: 26Jul-01Aug)

(Week2: 02Aug-08Aug)



Minimum Temperature (Tmin)

- **Week 1 (26.07.2024 to 01.08.2024):** Minimum temperature likely to be above normal over most parts of the country except Kerala, Telangana, Rayalaseema and regions along East Coast.
- **Week 2 (02.08.2024 to 08.08.2024):** Minimum temperature likely to be slightly above normal over parts of Northwest India, Central India and Karnataka.

Agromet Advisories

Kerala

1066 mm (-14% deficit) rainfall was received over Kerala from 01 June to 28 July 2024. The extended range weather forecast (rainfall) for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is above normal rainfall for week 1 and normal for week 2.

- As rain/thundershowers are very likely at many/most places over Kerala, it is advised to postpone irrigation, intercultural operations and application of plant protection measures and fertilizers to the standing crops. Provide adequate drainage in standing crop fields to avoid waterlogging. Provide support to banana crops. Make the vegetable pandals stronger.
- Improve drainage facility in coconut orchard. Do not allow water stagnation in the planted pits. Provide bunds around the pits to prevent the collection of runoff water in the pits. Fertilizer application may be postponed during heavy rainfall periods.
- During 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

177 mm (56% large excess) rainfall was received over Tamil Nadu from 01 June to 28 July 2024. The extended range weather forecast (rainfall) for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is normal rainfall for week 1 and above normal for week 2.

- As strong winds coupled with rainfall are expected staking and drainage facilities are advised to provide to young rubber, banana, and fruit trees.
- Prevailing weather is congenial for citrus canker disease incidence. To control, it is advised to spray Copper oxychloride 0.2% at fortnight intervals and control leaf miner when young flush is produced.
- To manage tobacco cutworm in brinjal, spray *Bacillus thuringiensis* @ 2 g/litre or Cypermethrin 25 % EC @ 4 ml/ 10 litre or Emamectin benzoate 05 % SG @ 4gram/10 litre during clear weather.

Karnataka

451 mm (36% excess) rainfall over South Interior Karnataka; 2373 mm (28% excess) rainfall over Coastal Karnataka and 262 mm (25% excess) rainfall over North Interior Karnataka was received from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is above normal over Coastal Karnataka; normal over South Interior Karnataka and North Interior Karnataka for week 1 and; above normal over North Karnataka, South Karnataka and normal over Coastal 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 uprooting of crops
- Due to high humidity (warm and humid weather) possibility of pest and disease build-up is higher in already sown crops. Take prophylactic measures depending on the crop.
- Take up land preparation and strengthen the bund with fodder grass which will facilitate conservation of rainwater due to monsoon showers. Ploughing across the slope will make *in situ* soil moisture conservation.
- In South Interior Karnataka, undertake sowing of red gram, maize, groundnut, cowpea and black gram
- **Under mono-cropping the long-duration crops:**
- **Redgram:** *TTB-7, BRG-1, 2, 4 and 5*
- **Maize:** *Ganga-11, Deccan -103, Vijaya composite, Composite NAC-6004,6002, Hybrid-Nityashree (NAH-2049)*
- **Under double cropping the medium to short duration crops:**
- **Groundnut:** *TMV-2, JL-24, KCG-6,*
- **Cowpea:** *TVX-944, KBC-1,*
- **Green gram:** *PS-16, PDM-84,178,*
- **Black gram:** *Karagao-3, T-9, Rashmi (LBG-625).*

North Interior Karnataka

- Under prevailing weather conditions, it is advised to continue sowing of red gram, black gram, ragi and bajra. Start sowing of niger, horse gram, finger millet and castor.
- To manage early shoot borer in sugarcane crops, it is advised to take up the spraying of Chlorpyrifos 20 % EC @ 1.5 ml/litre or Fipronil 05 % SC @ 2 ml/litre water.

Andhra Pradesh

227 mm (45% excess) rainfall was received over Rayalaseema, and 376 mm (49% excess) was received over Coastal Andhra from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is below normal over Rayalaseema and above normal over Coastal Andhra Pradesh for week 1 and; normal over Coastal Andhra Pradesh and above normal over Rayalaseema for week 2.

- Because of the rains the weed problem may increase in rice. To control, it is advised to apply Pyrazosulfuron-ethyl @ 80-100 g/acre at 4-7 DAS mixed in sand @ 20-25 kg/acre.

- In the scarce Rainfall Zone, utilizing the available soil moisture, continue sowing of castor. Carry out intercultural operations in rainfed crops to control weeds and mulch the soil with crop residue to conserve soil moisture.
- Continue nursery sowing of rice and chilli. Continue sowing of red gram in light, red and black soils with good drainage are good for cultivating red gram.

Odisha

475 mm (-8% deficit) rainfall was received over Odisha from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is above normal over Odisha for week 1 and; week 2.

- Due to the forecast of above-normal rainfall during this week, it is advised to cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangement.
- In low land, go for transplanting of 21 days rice seedlings in the main field. Keep rainwater in the main rice field by bunding for timely puddling and transplanting.
- Cover the vegetable nursery with polythene to protect it from heavy rain and make drainage arrangements.
- In heavy rainfall areas, stop the sowing of seeds and top dressing of fertilisers or herbicides for time being.

Maharashtra

524 mm (44% excess) rainfall over Madhya Maharashtra, 374 mm (30% excess) Marathwada, 2384 mm (44% excess) Konkan, and 621 mm (36% excess) rainfall over Vidarbha was recorded from 01 June to 28 July 2024. The extended range weather forecast (rainfall) for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is above normal rainfall over Konkan, Madhya Maharashtra and normal over Vidarbha, Marathwada for week 1; and normal over Konkan, Madhya Maharashtra and Marathwada and above normal over Vidarbha for week 2, respectively.

Parbhani

- Due to the forecast of above-normal rainfall in isolated places of the Marathwada region, it is advised to make arrangements to drain out excess water from *kharif* crops, orchards and vegetables.
- In view of realised rainfall during the last 2-3 days at isolated places in the Marathwada region, it is advised to drain out excess water from *kharif* crops, orchards and vegetables
- Undertake intercultural operations in cotton, pigeon pea, black gram and green gram at *wapsa* conditions during clear weather.
- For management of stem borer in sugarcane crop, it is advised to take a spray of Chlorpyrifos 20% @ 15 ml or Chlorantraniliprole 18.5 % @ 4 ml per 10 litres of water.

Vidarbha

- Drain out excess water from waterlogged areas of standing soybean, cotton, pigeon pea, vegetables, rice nurseries, transplanted rice fields and orchards, and maintain an optimum water level of 2 to 3 cm in rice fields. Undertake intercultural operations (hand

weeding/hoeing) for timely control of weeds in earlier sown soybean crops, after the current spell of rain.

- If symptoms of para wilt are observed in cotton, undertake drenching with Carbendazim 50% WP @ 20 g or Copper oxychloride 50% WP @ 25 g + Urea 100 g in 10 litres of water during clear weather.
- To control root rot in pigeon pea, prepare a mixture of Copper Oxychloride @ 25 g + Urea @ 200 g + White Potash @ 100 g + 10 litres of water and drench this solution @ 100 ml per plant after current spells of rain.

Madhya Maharashtra

- Due to the forecast of above-normal rainfall at isolated places, it is advised to make arrangements to drain out excess water from rice nurseries, orchards and vegetables, continue transplanting of rice, and provide mechanical support to banana plantations.
- Due to continuous rain, cloudy and humid weather and improper drainage of water from field, sap-sucking pests and para wilt disease may be observed in 15 days old cotton, for control spray 5% neem ark against sapsucking pests and carry out drenching of Copper Oxychloride (50 WP) 2.5 g or Carbendazim (50 WP) 2 g + urea 10 g per litres of water at the root of the plant against para wilt disease during clear weather.

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.

Gujarat

415 mm (-5% deficit) rainfall was received over Gujarat from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Gujarat is above normal for week 1 and week 2.

- Due to the forecast of above-normal rainfall during this week, it is advised to provide mechanical support to young mango plants. Postponed the different activities of farm operations. Drain out excess rainwater from the mango orchard.
- Farmers are advised to carry out thinning and gap-filling in the already sown cotton crop. Fertilizer and chemical application activities are advised on environmental conditions. Arrange drainage to remove excess rainwater.
- Prop the sugarcane canes with strong bamboo or tie the canes together in a clump with sugarcane leaves to protect against wind and heavy rain

Chhattisgarh

572 mm (-9% deficit) rainfall was received over Chhattisgarh from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Chhattisgarh is above normal for week 1 and week 2.

- If rice transplanting has not taken place yet, it is advised for sowing of short to medium-duration varieties of rice like *Vikram TCR*, *Mahamaya*, *MTU-1010* etc. should be sown in lines (direct Seeded Rice). The seed rate is advised higher than recommended by 15-20 per cent.
- 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.
- Training-pruning and nutrient management should be completed in the old fruit trees and last year's planted fruit plants.

Assam

980 mm (-2% deficit) rainfall received over Assam from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Assam is normal for week 1 and week 2.

- As maize is in growing stage (fruit formation) it is advised to go for light hoeing and earthing up and weeding. It is also advised to provide proper irrigation scheduling as above-normal temperature is predicted in the ensuing weeks.
- Continue transplanting of *sali* rice seedlings of 25 days old seedlings of short and medium-duration varieties in the main field. Continue sowing of pigeon pea and sesame.
- In order to avoid physical damage in orchard trees due to gusty wind during the monsoon season prevailing over the region; it is advised to provide mechanical support to the crops like banana, citrus, papaya etc. may be advocated. One should ensure proper drainage to drain out excess water from the crop fields. As above normal was anticipated during the ensuing days, harvesting of matured vegetables and fruits from standing crops may be carried out.
- Water stagnation in coconut due to flash flood conditions may lead to occurrence of Ganoderma disease. To prevent, water accumulation is advised to avoid orchards. On the occurrence of symptoms, go for isolating the plant by digging a 60 cm deep, 30 cm wide trench, 1 m away from the trunk.

West Bengal

326 mm (-42% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 1339 mm (34% excess) from 01 June to 28 July 2024. The extended range weather forecast (rainfall) for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is above normal rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week 1 and above normal rainfall over Gangetic West Bengal and normal over Sub-Himalayan West Bengal during week 2.

- Due to rains in past week and forecast of normal rainfall during this week, farmers are advised for practicing water harvesting for jute retting. Farmers may cut the jute for retting. Use Crijaf-Sona powder for better jute retting.
- 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 weed proliferation.
- Prepare the main field for the transplanting of Aman paddy; seedlings will be ready to transplant at 21 days of age.

Jharkhand

279 mm (-42% deficit) rainfall received over Jharkhand from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Jharkhand is normal for week 1 and above normal for week 2.

- Timely sown pigeon pea crop is at the vegetative stage, it is advised to remove excess water by making channels towards the slope side. Those farmers still late for sowing are suggested to adopt intercrop with Jowar/Rice/ Maize/ Groundnut/ Soybean/ Urdbean/moongbean and Okra. In the case of intercropping viz. Arhar + Jowar row ratio 1:1, Arhar + Maize row ratio 1:1, Arhar + Groundnut row ratio 1:3, Arhar + Soybean row ratio 1:2, Arhar + Urd/Mongbean row ratio 1:2 and Arhar + Okra row ratio 1:1 should be maintained and fertilizer should be applied accordingly.
- 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.
- Early sown maize crop is at the 3-week stage. Go for hoeing and weeding. Apply 16 kg Nitrogen/acre followed by earthing up.
- In fallow upland, carry out sowing of horse gram, black gram, green gram or different vegetables.

Bihar

317 mm (-33% deficit) rainfall received over Bihar from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Bihar is below normal for week 1 and normal for week 2.

- In view of forecasted light rainfall, undertake transplanting of rice in low/medium land areas; carry out weeding in 20-25 days old paddy crop.
- Prevailing weather is favorable for planting mango, litchi, amla, guava, jackfruit, custard apple and lemon; before planting, apply 40 to 50 kg of rotten cow dung per pit; do not plant when it is raining.
- Nursery sowing of chili in raised seedbed 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 chili are recommended for sowing in North Bihar. It is advised to treat the seeds with Thiram 75% dust before sowing.

Uttar Pradesh

299 mm (1% excess) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 296 mm (-18% deficit) from 01 June to 28 July 2024. The extended range weather forecast (rainfall) for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) is below normal over Eastern Uttar Pradesh and normal over Western Uttar Pradesh during week 1 and normal rainfall over Western Uttar Pradesh and Eastern Uttar Pradesh for week 2.

Western Uttar Pradesh

- As per extended range weather forecast, of normal rainfall and forecast of above normal maximum and minimum temperature during this week in central and western Uttar Pradesh. Therefore, farmers are advised to stop irrigation, and continue transplanting of medium/short duration of rice varieties should be taken up regularly. Short duration rice varieties viz; *Govind, Manhar, Narandra-80, NDR-97, Pant-12, IR-50, Ashwani, Shakat - 4, and Baranideep* can be used for SRI method only of rice planting or direct seeding
- Due to the normal rainfall forecast during this week, farmers are advised to avoid spray weedicide/ insecticide during this week in the sorghum field. Weeding and thinning are advised, and drain out excess water from the sorghum field.
- For weed control in paddy, it is advised to spray Pretilachlor 50 EC 1.25 litre volume in 800 litres of water after three to four days of transplanting.

Eastern Uttar Pradesh

- Under prevailing weather conditions, it is advised to sow early maturing hybrid maize varieties like *JA - 3459, Prakash, Pusa Hybrid Maize - 5, Vivek Hybrid Maize - 27, MMH - 113, X - 1123 G - 3342* and complex varieties like *Azad, Uttam, Pragati, Gaurav, Kanchan, Surya and Shiats Maize - 2* on ridges.
- In the transplanted paddy, do top dressing of urea for the first time after 20 to 25 days and in case of zinc deficiency, use 20 to 25 kg zinc sulphate mixed with urea.

Himachal Pradesh

209 mm (-37% deficit) rainfall was received over Himachal Pradesh from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Himachal Pradesh is below normal for week 1 and normal for week 2.

- Heavy rainfall, landslides, cloudburst, mudflow and flood situation in Kullu district. The public is cautioned not to go near the banks of rivers and drain out the excess 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

162 mm (-34% deficit) rainfall was received over Jammu from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Jammu is below normal for week 1 and normal for week 2.

- Provide proper drainage in kharif pulses like green gram and black gram to avoid water logging. Avoid intercultural operations (second hoeing cum weeding) in tomato, brinjal and chilli till weather improves.
- Due to chances of rain, farmers are advised to strengthen the bunds of paddy fields for *in-situ* storage of rain water and utilize the same for puddling. Immediate transplanting of 20-30 days old rice seedlings having 4-6 leaves (varieties: *IET-1410*, *PC-19*, *SJR-5*, *Jaya*, *Basmati 370* and *Ranbir Basmati*) is recommended, if not transplanted yet.
- Due to the availability of enough moisture under the *kandi* belt of Jammu, farmers are advised to apply nitrogen fertilizer in bajra crop.

Punjab

112 mm (-44% deficit) rainfall was received over Punjab from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Punjab is above normal for week 1 and week 2.

- Above rainfall is forecasted in coming days, therefore, it is advised to drain out the excess water from the cotton fields as cotton crop is highly sensitive to standing water during early growth stages. Eradicate the weeds like *kanghibuti*, *peelibuti*, *puthkanda* etc growing on cotton field bunds, waste lands, road side and irrigation channel.
- Due to the rainfall in the past week and forecast of above rainfall during this week, it is advised that after draining out excess rain water from the paddy field, apply recommended dose of nitrogen fertilizer and start gap filling if required. Keep water standing in paddy field only for 2 weeks and thereafter apply irrigation 2 days after the ponded water has infiltrated into soil.
- Due to the forecast of above normal rainfall during this week, it is advised to avoid irrigating the crops, spraying of any chemical to the crops and drain excess water if needed

Haryana

118 mm (-39% deficit) rainfall was received over Haryana from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Haryana is above normal for week 1 and week 2.

- In view of the anticipated vigorous monsoon activity during 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 paddy field only for 2 weeks and thereafter apply irrigation 2 days after the ponded water has infiltrated into soil. Maintain proper drainage in the field and remove stagnant rainwater immediately after rainfall.

Uttarakhand

541mm (-2% deficit) rainfall was received over Uttarakhand from 01 June to 28 July 2024. The extended range weather forecast (rainfall) provided for the next two weeks (26 July - 01 August 2024 and 02 August - 08 August 2024) over Uttarakhand is below normal for week 1 and normal for week 2.

- Complete transplanting of rice seedlings. Maintain proper water level in the crop field. Top dressing ½ kg of Urea per nali at the tillering stage can be done.

- Drain out excess water from sugarcane and maize fields. Undertake sowing of black gram and green gram at optimum soil moisture condition.

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