



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 11 June 2024**

आधारित/**based on**

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

वैधता/**Validity: 07 June - 20 June 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

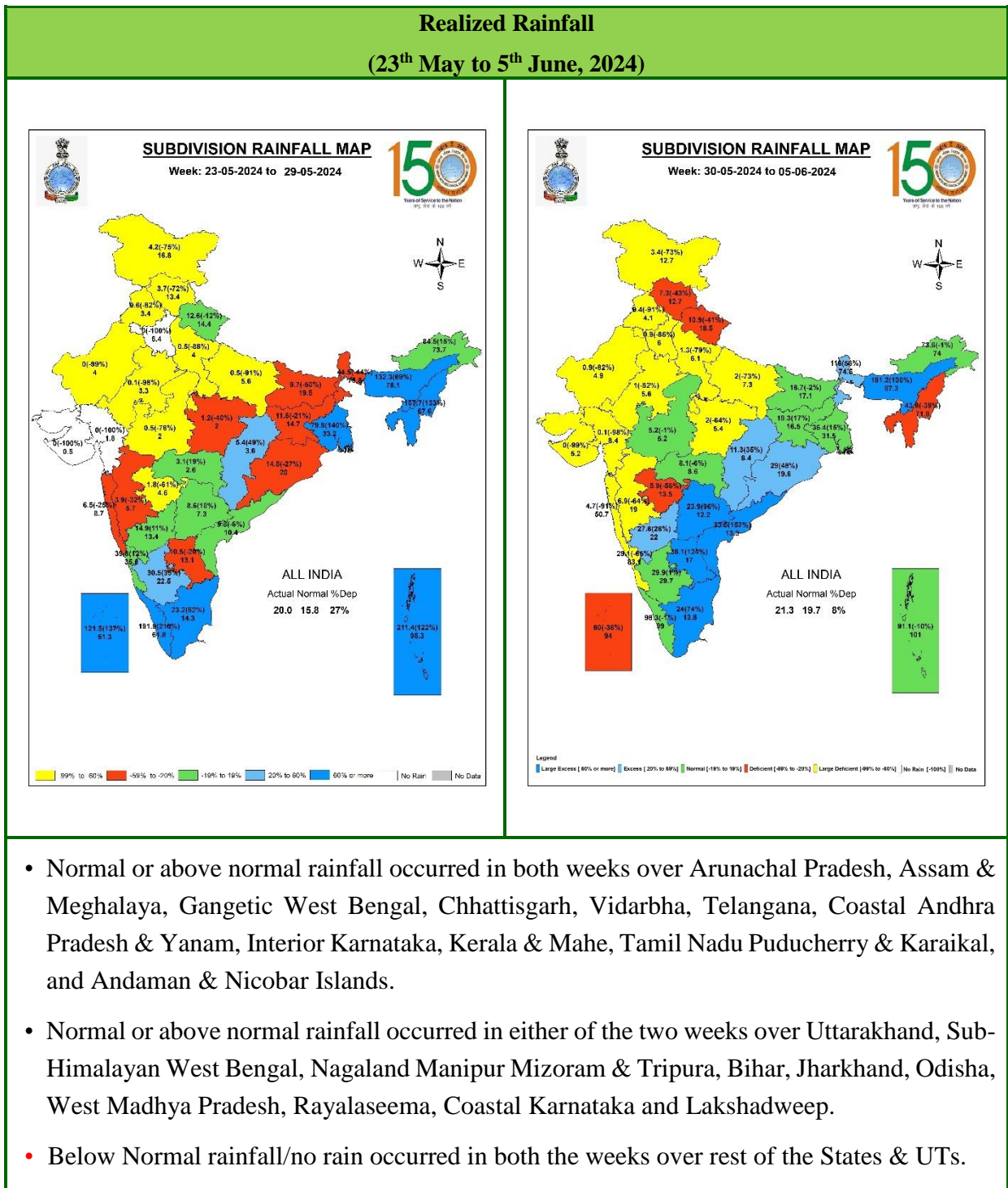
भारतीय मौसम विज्ञान विभाग

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पृथ्वी प्रणाली विज्ञान संगठन

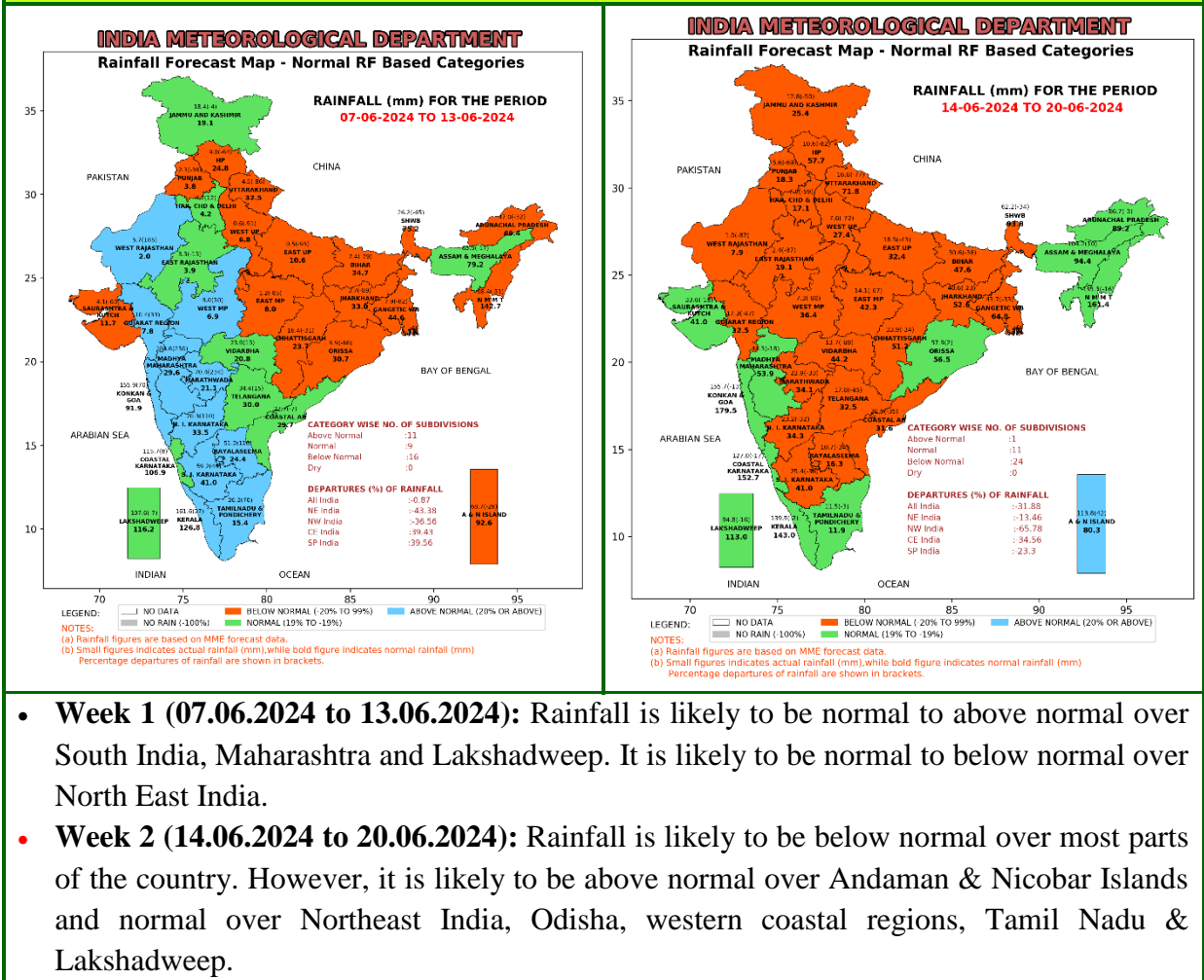
Earth System Science Organization

Realized Rainfall and Extended Range Forecast



Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 5th June, 2024) (7th to 20th June, 2024)

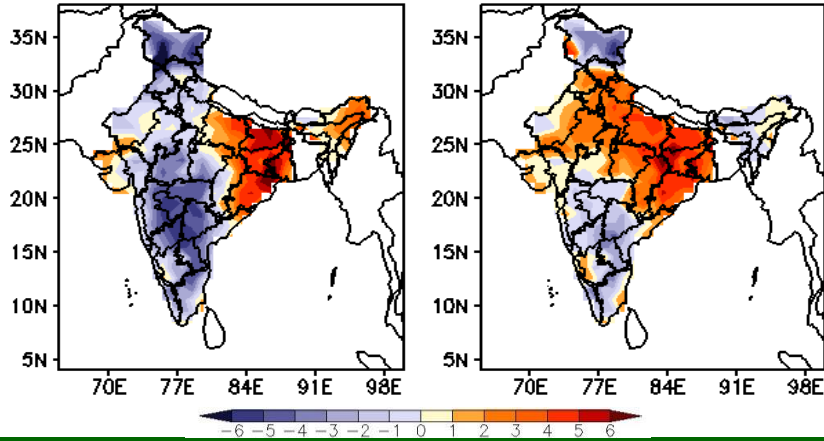


**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 5th June, 2024)
(7th to 20th June, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 07Jun–13Jun)

(Week2: 14Jun–20Jun)



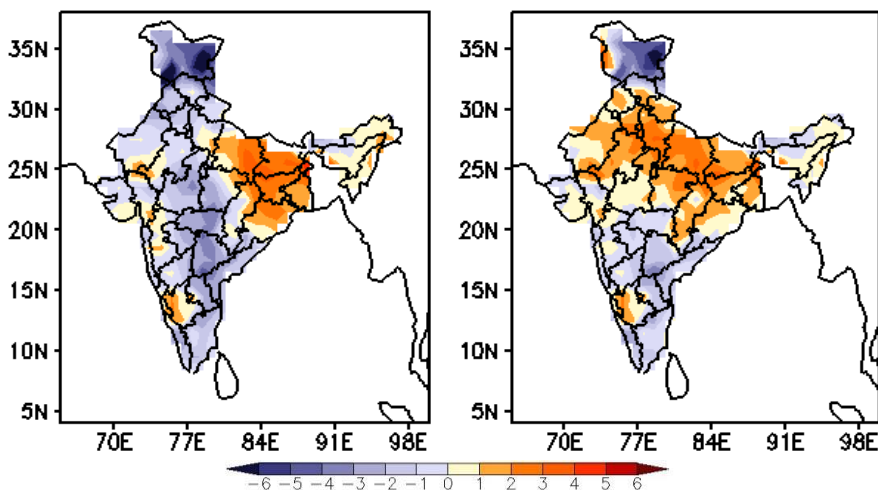
Maximum Temperature (Tmax)

- **Week 1 (07.06.2024 to 13.06.2024):** Maximum temperature is likely to be above normal over East India and some parts of Northeast India & Gujarat. It is likely to be below normal over rest of the country.
- **Week 2 (14.06.2024 to 20.06.2024):** Maximum temperature is likely to be above normal over East India and parts of Northwest and Central India.

MME forecast Tmin anomaly (Deg C)

(Week1: 07Jun–13Jun)

(Week2: 14Jun–20Jun)



Minimum Temperature (Tmin)

- **Week 1 (07.06.2024 to 13.06.2024):** Minimum temperature is likely to be normal to below normal over most parts of the country. However, it is likely to be above normal over East India and some parts of Karnataka.
- **Week 2 (14.06.2024 to 20.06.2024):** Minimum temperature is likely to be normal to above normal over many parts of the country. It is likely to be below normal over most parts of South India and Jammu & Kashmir.

Agromet Advisories

Kerala

127 mm (-22% large deficit) rainfall was received over Kerala from 01 June to 09 June 2024. The extended range weather forecast (rainfall) for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) is above normal rainfall for week 1 and normal for week 2.

- During the rainy season there is a chance of rhizome rots in ginger. As a prophylactic measure to rhizome rot disease in ginger, soak ginger seeds in a solution of 3 g of Mancozeb mixed with one litre of water for 30 minutes and then plant it.
- Proper drainage facilities are advised for vegetable crops, since heavy rains are expected. Staking is recommended for vegetables in pandals.
- Land preparation and nursery for *virippu* paddy (rainfed) can be started after summer rains. Seeds should be soaked in 10 gram of *Pseudomonas* solution in one litre of water for one kg of seeds for 30 minutes.
- As a precautionary measure to manage leaf fall during rainy season, it is advised to spray 1% Bordeaux mixture.

Karnataka

71 mm (86% large excess) rainfall over South Interior Karnataka; 192 mm (24% excess) rainfall over Coastal Karnataka and 77 mm (132% large excess) rainfall over North Interior Karnataka was received from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) is above normal over North and South Interior Karnataka and normal over Coastal Karnataka for week 1 and; below normal over North and South Interior Karnataka and normal over Coastal Karnataka during week 2.

South Interior Karnataka

- Take up land preparation and strengthen the bund with fodder grass which will facilitate conservation of rainwater due to pre-monsoon showers. Ploughing across the slope will make *in situ* soil moisture conservation.

Due to good amount of rainfall, the following crops are suggested for sowing.

Under mono-cropping the long duration crops:

- Redgram: *TTB-7, BRG-1,2,4 & 5*
- Castor: *DCS-9 (Jyothi), DCH-177 & 32*
- 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*

North Interior Karnataka

- As already light heavy rainfall was received in most of the districts and above rainfall forecasted during this week, as soon as the condition permits depending on the soil type, take up kharif sowing of bajra, kharif sorghum, groundnut, green gram, black gram, soybean, sesame may be taken up

- Irrigation schedule may be postponed in horticultural crops due to the forecast of above-normal rainfall during this week
- To manage Bacterial blight disease, spray the lime orchards with 3-gram Copper Oxychloride or 1 per cent Bordo mixture dissolved in one litre of water or 300 ppm Streptomycin (3 grams in 10 litres of water)

Andhra Pradesh

91 mm (278% large excess) rainfall was received over Rayalaseema, and 58 mm (136% large excess) was received over Coastal Andhra from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 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.

- North Coastal Zone of Andhra Pradesh, based on the suitability of their area, farmers are advised to select and procure the seed of high-yielding rice varieties like *RGL-2537*, *BPT-5204*, *BPT-3291*, *MTU-1262*, *MTU-1318*, *1061*, *MTU-1224* and *MTU-1064*.
- Farmers are advised to take up pruning in mango orchards which are at resting stage and suggested to apply recommended dose of fertilizers.
- The pomegranate crop is at the resting stage. Farmers are advised to spray Bordeaux mixture @ 10 g per litre of water to prevent the spread of bacterial leaf blight.

Maharashtra

42 mm (15% excess) rainfall over Madhya Maharashtra, 32 mm (12% excess) Marathwada, 95 mm (-7% deficit) Konkan and 19 mm (normal) rainfall over Vidarbha was recorded from 01 June to 09 June 2024. The extended range weather forecast (rainfall) for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) is above normal rainfall over Konkan, Madhya Maharashtra and Marathwada and normal over Vidarbha for week 1; and normal over Konkan and Madhya Maharashtra and below normal over Marathwada and Vidarbha for week 2, respectively.

Parbhani

- As per the forecast of thunderstorms along with gusty wind and above normal rainfall, it is advised for mechanical support to newly planted Mandarin/Sweet Orange plants, and advised that after rainfall removes excess amounts of water stagnated in orchards.

In view of heavy rainfall and thunderstorm accompanied with lightning at isolated places

- It is advised to take measures for conservation of soil and rainwater.
- Provide mechanical support to orchards,
- Keep farm animals indoors.

Vidarbha

- Avoid pre-monsoon sowing of cotton crops. In kharif, if planning for a cotton crop, ensure the availability of seeds recommended desi varieties include *AKA-5*, *AKA-7* and *AKA-8* with seed rate of 12 to 15 kg/ha and spacing of 60 x 15 cm.

- For pigeon pea crop ensure the availability of seed. Recommended varieties as per the soil type early duration varieties for medium soil type - (*TAT-10, ICPL-87, AKT-8811*), medium duration varieties for medium to heavy soil type - (*BSMR-736, PKV Tara, BSMR-853*) and long duration varieties for heavy soil type - (*ICPL-87119, C-11*).
- As light rainfall is expected at scattered places, continue preparatory tillage operations for *kharif* crops

Konkan

- Due to the forecast of above-normal rainfall during this week, it is advised to start land preparation for the rice nursery. Prepare land for rice nursery by ploughing the selected area. Add FYM @ 100 kg per guntha and bring the soil to fine tilth. Prepare a raised bed of 120 cm breadth at the bottom and 90 cm.
- As forecast of above normal during this week, it is advised to make arrangements for drainage from orchards, vegetables and rice nurseries.
- Under prevailing weather condition, it is advised to continue preparatory tillage operations for the cultivation of *kharif* groundnut on a non-rainy day.

Madhya Maharashtra

- In view of above-normal rainfall, it is advised to take measures for conservation of soil and rainwater.
- Continue nursery bed preparation for *kharif* rice.

Gujarat

2 mm (-89% large deficit) rainfall was received over Gujarat from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Gujarat is above normal for week 1 and below normal for week 2.

- Prepare a nursery for raising seedlings of bidi tobacco crop. Select varieties for irrigated area: *Anand-2, Anand-119, Gujarat Tobacco 5, Anand Bidi Tobacco-10, Gujarat Anand Bidi Tobacco-11, GTH-1, GABTH-2* and for unirrigated area: *Gujarat Tobacco-4, 7*.
- Dugout/clean drainage around sugarcane field before monsoon. Earthing is also advised. As per soil/climatic condition and stage of crop, irrigate the crop and mulching of trash in between two rows of the crop to save irrigation water.
- Propping is advised in banana orchard with the help of bamboos by placing them against the stems on the leaning side at the bunch development stage.

Chhattisgarh

17 mm (1% excess) rainfall was received over Chhattisgarh from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Chhattisgarh is below normal for week 1 and week 2.

- Due to forecast of below-normal rainfall during this week, inter-culture operation, fertilizer application, and earthing followed by irrigation are advised in sugarcane crops at knee height stage.
- In green gram crop, second weeding is advised at 45 days after sowing.

- Prepare the field for the nursery cultivation of rainy season vegetable crops like okra, brinjal, chilli, cucumber, bottle gourd, radish and cauliflower etc.
- To control borer in okra and brinjal, it is advised to use pheromone traps @ 10 Nos/ acre

Assam

113 mm (-9% deficit) rainfall received over Assam from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Assam is normal for week 1 and week 2.

- The grasses like Hybrid Napier, Seteria, Guinea and Para can be successfully grown under Assam conditions. As sufficient rainfall received in the last week, farmers may plant the rooted slips of these grasses in upland areas to meet the fodder needs of livestock during the coming kharif season.
- Sowing of seeds of sali rice varieties in the nursery beds may be started as rainfall is predicted to be normal during this week. Apply FYM or compost @ 13 quintals per bigha of land during the time of land preparation.
- Make necessary arrangements to drain out excess water from the vegetable fields

West Bengal

21 mm (-55% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 119 mm (11% excess) from 01 June to 09 June 2024. The extended range weather forecast (rainfall) for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) is below normal rainfall over Gangetic West Bengal and Sub-Himalayan West Bengal during week 1 and week 2.

- Onset of the monsoon is delayed in West Bengal. Therefore, delayed sowing or transplanting of kharif rice is suggested. However, farmers are advised to prepare seed beds and wait for a good spell of rainfall for sowing. In this year cultivation of short duration rice varieties like *Khanika (IET-12055)* is advised.
- Drainage channels in the Jute field are advised to clear well in advance to avoid water logging conditions. Farmers are advised to insure their jute crop to prevent any losses.

Jharkhand

19 mm (-26% deficit) rainfall received over Jharkhand from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Jharkhand is below normal for week 1 and week 2.

- Prepare land for paddy and arrange seeds of paddy crops. The improved varieties for rice crops are for upland: *Birsa Vikas Dhan 109, 110, 111, Birsa Dhan-108* and *Vandana*; For medium land: *Sahbhagi dhan, IR-36, 64, Lalat, Naveen, Birasmati*; For low land: *Rajshree, Swarna, Sambha Mahsuri*. Before sowing seeds, treat with fungicide Bavistin at the rate of 2 grams per kg of seeds.
- Farmers are advised for preparation of nursery for early cauliflower, tomato, chilli and brinjal. It is also advised to use shed nets, which helps in reducing vector disease and thus produce healthy seedlings.

Bihar

13 mm (-54% deficit) rainfall received over Bihar during 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Bihar is below normal for week 1 and week 2.

- In view of timely onset of monsoon in Bihar, farmers are advised to start the sowing of paddy in the nurseries. For long duration varieties of paddy, seeding up to 10 June is advised. However, for medium duration varieties, farmers can sow it during 10-25 June. For direct seeding of rice, farmers can do the work of seeding in the nursery in the next week itself
- Under prevailing weather condition, sowing of *dhaincha*, *mung (green gram)*, and *senai* crops are advised for green manuring.
- Rouging is advised in virus-infested chilli crops. Thereafter spraying of Imidacloprid @ 1 ml per 3 litres water solution is advised to control the insect vectors.

Odisha

37 mm (17% excess) rainfall was received over Odisha from 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Odisha is below normal for week 1 and normal for week 2.

- For planting of fruit crops in July and August go for digging of pits before onset of monsoon to effect solarization of soils removed from the pits for killing the hibernated insects and their eggs.
- Farmers are advised to incorporate well-decomposed Farm Yard Manure or cow-dung @ 8 quintals /acre during the final land preparation in direct seeded rice and initial land preparation is advised for dry nursery for *kharif* rice.
- To avoid the initial stage infestation of Fall Army Worm in maize crop. Seed treatment is advised. Treat 1kg seeds with combi-product 4ml Cyantraniliprole 19.8% +Thiamethoxam 19.8% FS.

Uttar Pradesh

2 mm (-83% large deficit) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 6 mm (-64% large deficit) during 01 June to 09 June 2024. The extended range weather forecast (rainfall) for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) is below normal over both subdivisions during week 1 and week 2.

Western Uttar Pradesh

- Due to hot and dry weather appearing and forecast of below-normal rainfall during this week, farmers are advised to sowing of maize crops if irrigation facilities are available with recommended maize varieties such as *Hybrid Dakan-107*, *DKC-7074*, *Malveya-2*, *JH-3459*, *Prakash*, *PSM-5*, *Pro-303*, *KH-510*, *MMH-113* and Composite varieties *Novjoti*, *Pusa-2*, *Prabhat* and *Azad uttam*.
- Due to hot and dry weather during this week farmers are advised to harvest mature green/black gram crop as soon as possible and keep it safe place
- To protect brinjal and chilli crops (fruiting stage) from food borer farmers are advised to spray Azadirachtin 1.0% EC (1000 ppm).

Himachal Pradesh

15 mm (-22% deficit) rainfall was received over Himachal Pradesh during 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Himachal Pradesh is below normal for both week 1 and week 2.

- Due to present dry weather (heat wave) conditions and forecast of below normal rainfall, farmers are advised to apply irrigation and mulching (straw) in fruit orchard like kiwi, apple orchards and vegetable crops like okra, French beans, cucurbits etc. to conserve soil moisture.
- Keep the honey bees colonies in shady places and sprinkle water to reduce the heat as temperature rising high in the region. Insert the brood chamber without a frame to ensure aeration
- Deep ploughing is advised after rabi crop harvest to conserve more water in the field. Clean waterways for efficient watering. Use mulches in the vegetable nursery and crops if available good for soil moisture conservation and soil temperature.
- Sowing of fodder maize along with soybean or cowpea is advised in the irrigated areas to get green fodder. The sowing of maize crop is advised to be delayed in rainfed areas.

Jammu

19 mm (17% excess) rainfall was received over Jammu during 01 June to 09 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (07 - 13 June 2024 and 14 - 20 June 2024) over Jammu is normal for week 1 and below normal for week 2.

- Nursery raising of Basmati 370 and Ranbir Basmati is recommended. Give irrigation to nursery daily as per requirement due to high temperature and hence evaporation rate. Irrigation is recommended during evening hours. Cover the nursery with grass/straw to prevent moisture loss.
- Start land preparation after receipt of rain to conserve in situ moisture for early sown maize crop. Apply 15 tonnes of well-rotten FYM and incorporate thoroughly into soil with first ploughing to reduce 25% of N, P and K from the recommended dose

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