



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

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India Meteorological Department (IMD) पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization



Realized Rainfall and Extended Range Forecast

- Normal or above normal rainfall occurred in both the weeks over Sub-Himalayan West Bengal & Sikkim, Vidarbha, Telangana, Andhra Pradesh & Yanam, Interior Karnataka, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks over Jammu & Kashmir and Ladakh (UTs), Bihar, Jharkhand, Odisha, Gangetic West Bengal, Assam & Meghalaya, Arunachal Pradesh, West Madhya Pradesh, Chhattisgarh, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Karnataka and Kerala & Mahe.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.



- Week 2 (21.06.2024 to 27.06.2024): Rainfall is likely to be above normal over Northeast
 Week 2 (21.06.2024 to 27.06.2024): Rainfall is likely over most parts of the country. It is
- likely to be above normal over Northwest India, some parts in East India and below normal over parts of South India.



- Week 1 (14.06.2024 to 20.06.2024): Minimum temperature is likely to be above normal over East Rajasthan, Uttar Pradesh, Bihar, Jharkhand, Odisha, Chhattisgarh and Gangetic West Bengal.
- Week 2 (21.06.2024 to 27.06.2024): Minimum temperature is likely to be above normal over Northwest India, East India and Interior Karnataka.

Strategic Agricultural Planning based on rainfall till 27 June 2024

Agromet Advisories

Kerala

187 mm (-46% deficit) rainfall was received over Kerala from 01 June to 17 June 2024. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is below normal rainfall for week 1 and week 2.

- During the rainy season, there is a chance of downy mildew attack in cucurbitaceous vegetables. To control, it is advised to spray Mancozeb @ 2.5 g per litre of water under the leaves. Do not apply pesticides during rainy periods.
- Land preparation and nursery for *virippu* paddy (rainfed) can be started after summer rains. Seeds should be soaked in *10 grams of Pseudomonas solution* in one litre of water for one kg of seeds for 30 minutes.
- There is a chance of Sigatoka disease in banana during the rainy season. As a prophylactic measure, proper drainage facilities must be ensured and spray 20 gram of pseudomonas per one liter of water during a non-rainy period.

Karnataka

92 mm (16% excess) rainfall over South Interior Karnataka; 334 mm (-19% deficit) rainfall over Coastal Karnataka and 115 mm (85% large excess) rainfall over North Interior Karnataka was received from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is above normal over North Interior Karnataka and below normal over South Interior Karnataka and Coastal Karnataka for week 1 and; below normal over North, South and Costal 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 the 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 abovenormal rainfall during this week
- To manage Bacterial blight disease in pomegranate, it is advised to spray the crop with Streptomycin sulphate 0.5 g. + Copper Oxychloride 2 g dissolved in one litre of water

Andhra Pradesh

124 mm (1688% large excess) rainfall was received over Rayalaseema, and 75 mm (27% excess) was received over Coastal Andhra from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is above normal over Rayalaseema and Coastal Andhra Pradesh for week 1 and; below normal over Rayalaseema and normal over Coastal Andhra Pradesh for week 2.

- Farmers are advised to take up sowing of rainfed groundnut only after receipt of cumulative rainfall of 50 mm after the onset of SW monsoon. They are advised to avoid too early sowing immediately after the first rains in June and late sowing after 1st week of August to avoid the risk of yield reduction.
- 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 at resting stage and suggested to apply recommended fertilizers.
- Present weather conditions is favorable for bacterial rhizome rot in bananas. Soil drenching of bleaching powder @15-20 g/litre of water after 24 hrs of irrigation at 15 day intervals for better control of rhizome rot.

Maharashtra

100 mm (29% excess) rainfall over Madhya Maharashtra, 119 mm (70% large excess) Marathwada, 237 mm (-20% deficit) Konkan and 49 mm (-29% deficit) rainfall over Vidarbha was recorded from 01 June to 17 June 2024. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is below normal rainfall over Konkan, normal over Madhya Maharashtra and above normal over Marathwada and Vidarbha for week 1; and normal over Konkan, Madhya Maharashtra and Vidarbha and below normal over Marathwada for week 2, respectively.

Parbhani

- As per the forecast of thunderstorms along with gusty wind and rainfall, it is advised to provide mechanical support to newly planted fruit orchards like banana mango plants etc.
- Sowing of rainfed Bt cotton is advised up to 15 July with spacing of 120 X 45 cm and seed rate @ 2.5 to 3 kg/ha.

Vidarbha

• Thunderstorms accompanied by lightning and gusty winds are expected to provide mechanical support to newly planted orchards and vegetables.

- 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 a seed rate of 12 to 15 kg/ha and spacing of 60 x 15 cm.
- For pigeon pea crops 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 above-normal rainfall is forecasted at scattered places, it is advised to continue preparatory tillage operations for *kharif* crops.

Madhya Maharashtra

- Under prevailing weather condition, it is advised to continue sowing of kharif crops like pigeon pea, black gram, green gram and soybean at *wapsa* condition.
- Field preparation is advised for raising nursery plants of onion, brinjal, chilli, and tomato on raised beds. After sowing seeds, it is advised to provide light irrigation with a rose can and later by flooding.

Gujarat

12 mm (-74% large deficit) rainfall was received over Gujarat from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Gujarat is below normal for week 1 and normal for week 2.

- For cultivation of kharif paddy select the recommended varieties like, early maturing varieties (Direct seeded): *GR-2, 3, 4, IR-2, GR-12 (Sardar), NVSR-2*, Early maturing variety (Transplanting): *Mahisagar* Medium late maturing varieties: *GR-11, 13, Jaya, Gurjari, IR-22, GR-15, Dandi, GAR-13* and Late maturing varieties: *Masuri, GR-101, 103, 104, 108 and Narmada*.
- Due to the forecast of below-normal rainfall, it is advised to apply irrigation at 7 to 8 days of interval as per soil and weather condition and the requirement of banana crop. Grow fast-growing windbreak like Shevri perennial tree to reduce high wind velocity towards standing banana crops.
- Under prevailing hot and humid climate, it is advised to give animals green grass, proteinfat bypass supplement, mineral mixture and salt. Make them graze during cooler hours.

Chhattisgarh

31 mm (-50% deficit) rainfall was received over Chhattisgarh from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Chhattisgarh is normal for week 1 and below normal for week 2.

- Heat stress prevailing in the state, maximum and minimum temperatures are about +1 to +2 degrees centigrade above normal values. Therefore, farmers are advised to adopt water conservation agronomic techniques.
- To control borer in okra and brinjal, it is advised to use pheromone traps @ 10 Nos/ acre and destroy the upper portion of affected plants.
- Under prevailing weather conditions, farmers are advised to prepare the field for the nursery cultivation of rainy season vegetable crops like okra, brinjal, chilli, cucumber, bottle gourd, radish, cauliflower etc. and arrange the seeds.

Assam

302 mm (17% excess) rainfall received over Assam from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Assam is above normal for week 1 and normal for 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.
- As the monsoon has already set in the region and there is a possibility of above-normal rainfall during this week, farmers may start main field preparation for paddy cultivation. Apply 13 quintals of compost or FYM per bigha of land during land preparation.
- Under fair weather conditions spray Emamectin Benzoate 5% SG (@ 5 g per 10 lit of water) or Lambda Cyhalothrin 5 EC (@ 3-5 ml per 10 lit of water) to control pests like fruit fly, Epilachna beetle, aphid, red pumpkin beetle and black pumpkin beetle in vegetable crops like sponge gourd, spine gourd, ridge gourd, cowpea etc. and against borers in brinjal, okra etc.

West Bengal

34 mm (-68% large deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 394 mm (73% large excess) from 01 June to 17 June 2024. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is below normal rainfall over Gangetic West Bengal and Sub-Himalayan West Bengal during week 1 and above normal over Gangetic West Bengal and normal over Sub-Himalayan West Bengal during week 2.

- An early break of the monsoon is observed. However, during the second week, a good spell of rainfall is forecasted. So, the farmers are advised to start sowing kharif rice. This year cultivation of short-duration rice varieties like *Khanika* (*IET-12055*) is also suggested
- To control thrips, fruit borer (Helicoverpa armigera), aphid in Chilli, it is advised to apply Acephate 95 % SG @ 750 g/ha during early morning accessing cloud condition
- 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

22 mm (-67% large deficit) rainfall received over Jharkhand from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Jharkhand is below normal for week 1 and normal for week 2.

- Due to the forecast of below-normal rainfall, and an increase in maximum temperature, farmers are advised to go for supplemental irrigation in vegetable fields, especially in cucurbitaceous crops. They are also advised to spray 2% DAP + 1% MOP in vegetables due to increase in day temperature and soil moisture stress.
- To protect maize crops from termite, farmers are advised to use Imidacloprid 17.8 EC at the time of puddling @ 1.5 litres with 25 kg of dry sand.

Bihar

17 mm (-73% large deficit) rainfall received over Bihar from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Bihar is normal for week 1 and week 2.

- Nursery sowing is advised for the medium duration of rice varieties such as *Sita, Santosh, Saroj, Rajshri, Prabhat, Rajendra suhasni, Rajendra kasturi and Rajendra bhagwati* in North Bihar. Before sowing, seeds should be treated with Carbendazim @ 2.0 g/kg of seed. Weeding is advised in 10-12 days old paddy nursery.
- Due to forecast of normal rainfall during this week, farmers are advised do not spray pesticides/insecticides on the crop and spray only when the weather is dry.
- To protect the summer vegetables from leaf feeder/fruit borer pest, spraying of Dimethoate 30 EC @1-1.5 ml/litre of water is advised in clear days

Odisha

53 mm (-42% deficit) rainfall was received over Odisha from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Odisha is below normal for week 1 and normal for week 2.

- Due to the forecast of below-normal rainfall, mulching is advised to reduce the moisture loss from the soil in orchard crops.
- Due to the forecast of below-normal rainfall and an increase in temperature, it is advised to cover the freshly prepared vegetable nursery with polythene or with straw to avoid high temperatures.
- Incorporate well-decomposed farm yard manure or cow-dung @ 8 quintals /acre during the final land preparation in direct-seeded rice.
- May to June is the optimum time for yam planting. It is advised to grow suitable highyielding varieties of yam like local varieties: *Shreekirti, Shreerupa, Hatikhoj, Shreeshilpi* Small yam: *Shreelata, Shreekala* and white yam: *Shreesubhra, Shreepriya, Shreedhanya*.
 8-10 quintals yam required for planting in one acre.

Uttar Pradesh

2 mm (-92% large deficit) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 6 mm (-83% large deficit) from 01 June to 17 June 2024. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) is below normal over both subdivisions during week 1 and above normal over Eastern Uttar Pradesh and normal over western Uttar Pradesh for week 2.

Western Uttar Pradesh

- Due to forecast of below normal rainfall during this week, therefore, farmers are advised for sowing of short duration rice varieties such as *N-118*, *N-80*, *N-1*, *N-2*, *N-97*, *Pant dhan-12*, *Barani deep*, *IR-50*, *Ratna*, *HUR-3022* and scented rice such as *T-3*, *Pusa basmati-1*, *Pusa sungandh-4 and 5* and *Malviya Sugandh-4-3 and Malviya basmati 10-9* etc. Nursery should be raised during the 3rd week of June.
- As per forecast below normal rainfall during this week, farmers are advised for irrigation in early sown pigeon pea and weeding is also advised at proper moisture level.

- Protect the animals/birds from heat waves and keep their room cool by using cooler. Jute bag may be used as curtain in the door and windows and it should be wetted at noon and evening.
- To protect brinjal and chilli crops (fruiting stage) from food borer farmers are advised to spray Azadirachtin 1.0% EC (1000 ppm).

Eastern Uttar Pradesh

- Keeping in view of the heat wave during this week, farmers are advised for frequent irrigation in vegetables, nurseries of vegetables, fodder crops and orchards. Farmers are also advised to protect vegetable nurseries and orchards against hot winds by physical barriers.
- High temperature is suitable for deep ploughing of fields after harvesting of rabi crops to destroy the eggs and pupating stages of insects and weed seeds.
- Go for vaccination against Foot and Mouth disease and other bacterial diseases in the bovine population (cattle, goat, buffalo etc.).

Himachal Pradesh

15 mm (-68% large deficit) rainfall was received over Himachal Pradesh from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Himachal Pradesh is below normal for both week 1 and week 2.

- Due to forecast of below normal rainfall and increase in temperature, farmers are advised for harvesting of mature vegetables at morning and evening and after harvesting of crops keep it in the shade. Apply light and frequent irrigation in morning and evening according to need which other-wise lead to poor pollination and thus drop in yield of the crop.
- 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 crops is advised to be delayed in rainfed areas.

Jammu

22 mm (-41% large deficit) rainfall was received over Jammu from 01 June to 17 June 2024. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 June 2024 and 15 - 27 June 2024) over Jammu is below normal for week 1 and 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.
- Due to high temperature and evaporation rate, farmers are advised to apply irrigation in vegetables like turmeric/ginger as per requirement. And, Hoeing and weeding are also recommended at *vattar* conditions of soil to conserve soil moisture.
- Protect colonies from high temperature by shifting to shady areas or migrate to cooler

places or cover them with wet gunny bags.

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