



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन
National Agromet Advisory Services Bulletin

जारी करने की तिथि/ **Date of issue: 27 May 2024**

आधारित/**based on**

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

वैधता/**Validity: 24 May - 06 Jun 2024**

जारीकर्ता/**Issued by**

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

AICRP on Agro-Meteorology (AICRPAM)

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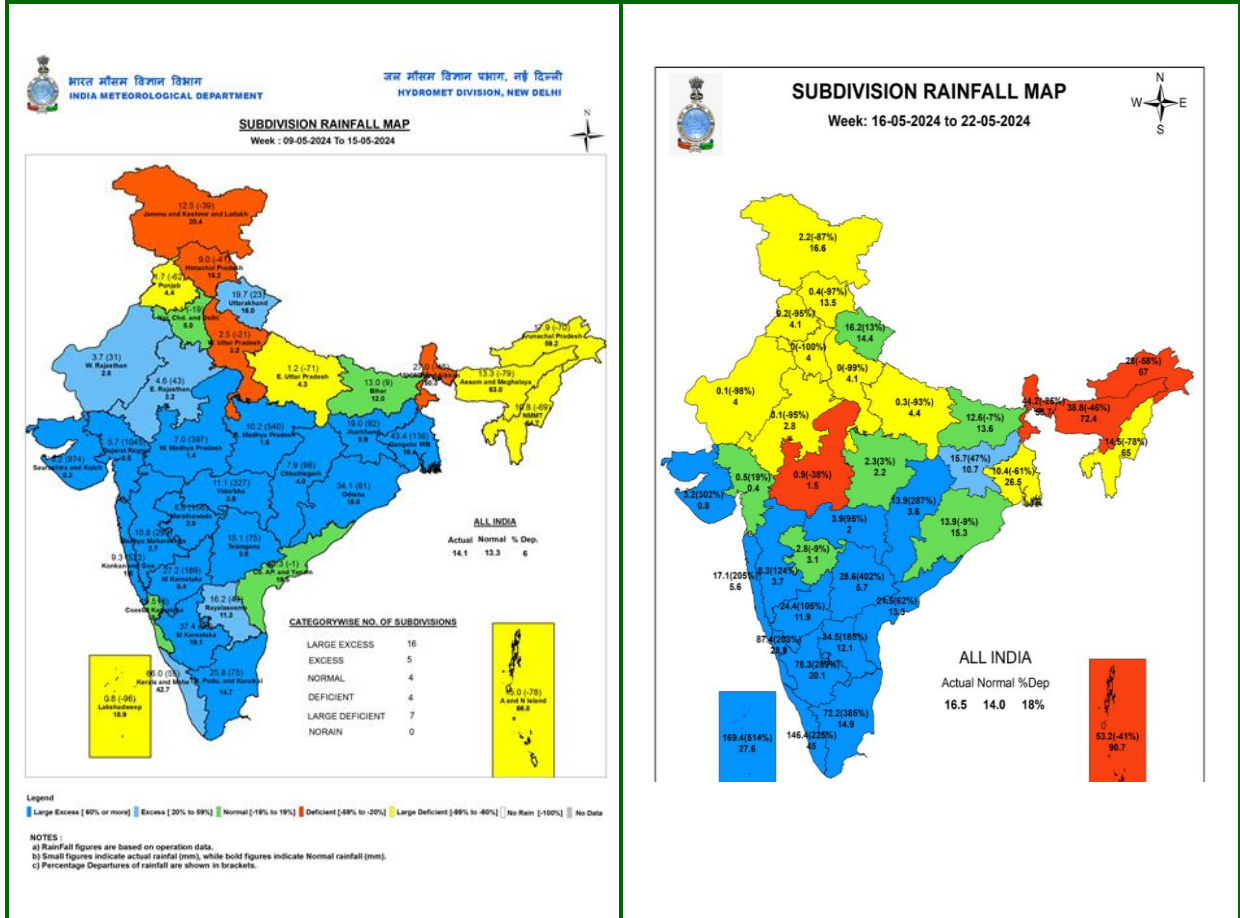
India Meteorological Department (IMD)

पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast

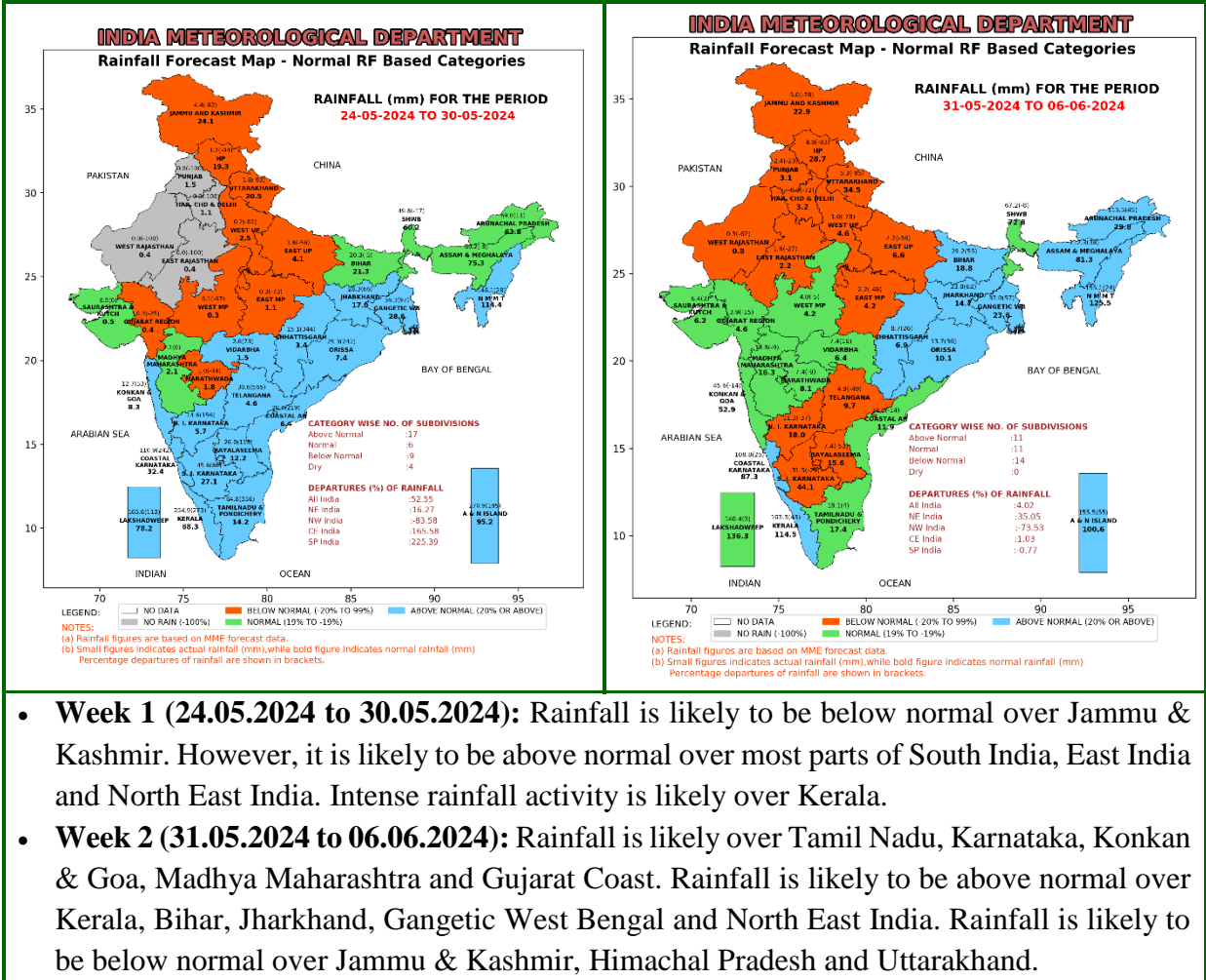
Realized Rainfall (09 May to 22 May, 2024)



- Normal or above normal rainfall occurred in both the weeks over Uttarakhand, Bihar, Jharkhand, Odisha, Chhattisgarh, East Madhya Pradesh, Gujarat, Maharashtra, Karnataka, Telangana, Andhra Pradesh & Yanam, Tamil Nadu Puducherry & Karaikal and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks over Haryana Chandigarh & Delhi, Rajasthan, West Madhya Pradesh, Gangetic West Bengal and Lakshadweep.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 22nd May, 2024) (24th May to 06th June, 2024)

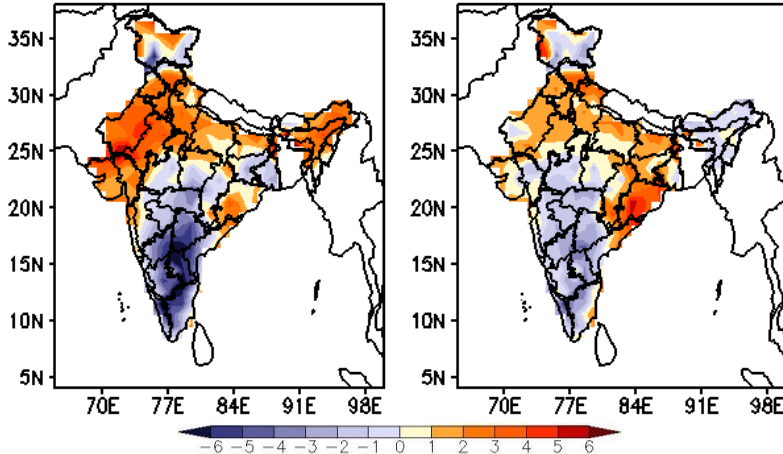


**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for the next 2 weeks (IC- 22nd May, 2024)
(24th May to 06th June, 2024)**

MME forecast Tmax anomaly (Deg C)

(Week1: 24May-30May)

(Week2: 31May-06Jun)



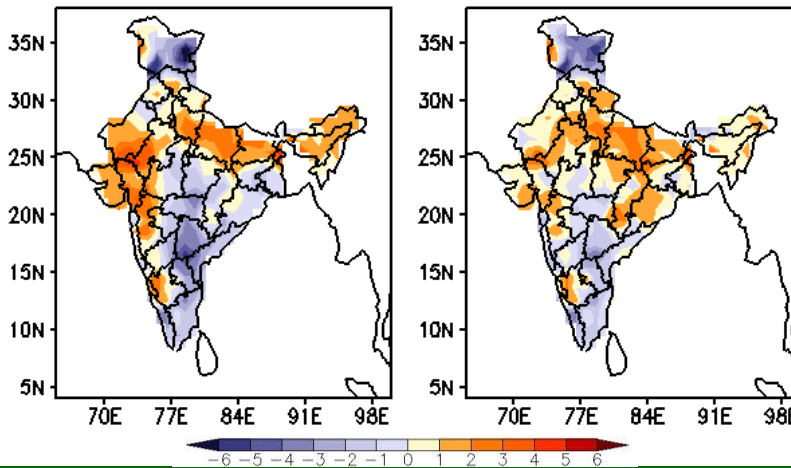
Maximum Temperature (Tmax)

- **Week 1 (24.05.2024 to 30.05.2024):** Maximum temperature is likely to be above normal over most parts of Northwest India and many parts of East & Northeast India.
- **Week 2 (31.05.2024 to 06.06.2024):** Maximum temperature is likely to be above normal over most parts of Northwest India and many parts of East India.

MME forecast Tmin anomaly (Deg C)

(Week1: 24May-30May)

(Week2: 31May-06Jun)



Minimum Temperature (Tmin)

- **Week 1 (24.05.2024 to 30.05.2024):** Minimum temperature is likely to be above normal over many parts of Northwest India, Gujarat, Madhya Maharashtra, Karnataka, and Northeast India.
- **Week 2 (31.05.2024 to 06.06.2024):** Minimum temperature is likely to be above normal over many parts of Northwest India, Gujarat, Madhya Maharashtra, Karnataka, East India and Northeast India.

Agromet Advisories

Kerala

396 mm (36% excess) rainfall received over Kerala during 01 March - 25 May 2024. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal for week 1 and week 2.

- Land preparation and nursery for *virippu* paddy (Rainfed) can be started after summer rains. Seeds should be soaked in Pseudomonas @10g per one liter of water for one kg seeds for 30 minutes.
- During the beginning of the southwest monsoon season, one-kilogram lime can be applied per matured palm by opening the round basin below the coconut palm.
- During the rainy season, there is a chance of Rhizome rot in banana. Proper drainage facilities must be ensured. As a precaution, drench the basin with three litre of pseudomonas solution (20g per liter of water).
- Care should be taken to avoid fungal growth in the cattle feed. Take precautions to avoid ectoparasitic infestation. Care should be taken to prevent rat breeding in the premises of cattle shed to prevent leptospirosis

Karnataka

170 mm (41% excess) rainfall over South Interior Karnataka; 85 mm (30% excess) rainfall over Coastal Karnataka and 179 mm (60% excess) rainfall over North Interior Karnataka was received during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal over for all the three subdivisions for week 1 and; below normal for North and South Interior Karnataka and above normal over Coastal Karnataka during week 2.

South Interior Karnataka

- Due to the forecast of above-normal rainfall, deep ploughing is advised in the mango orchard.
- Harvesting of mango without dropping ground level using mango net.
- To Mango growers should harvest matured fruit and try to leave one or two inches of stem in the mango bunch, which helps to avoid sap burn disease. Afterward, the mango fruit should be wrapped by using papers and then keep it in plastic crates. After within 24 hours of harvesting, the crates are placed on top of each other with 5 to 6 create half-feet apart and then take 300 ml. of water in small plastic bottles, add 10 ml of ethylene to water, then after adding 10 g sodium hydroxide (caustic soda). Then seal the tarpaulin cover tightly without aeration for 48 to 60 hours, then tarpaulin should be removed and left out for aeration. Ethylene should be kept in 8 to 10 glasses for to ripen 1 ton of fruit. Natural ripening will help to get good quality fruit and better market price.

North Interior Karnataka

- Summer ploughing can be taken up across the slope to incorporate crop residues in the soil, to conserve runoff water of pre-monsoon rainfall and reduce soil erosion
- To manage Bacterial blight disease, spray the lime orchards with 3 gram Copper Oxy-chloride or 1 per cent Bordo mixture dissolved in one litre of water or 300 ppm Streptomycin (3 gram in 10 liters of water)
- Three foliar applications of 00:52:34 (Mono-Potassium Phosphate) @ 7g/l at 15-20 days interval should be taken for good fruit development and increasing the fruit size in pomegranate

Andhra Pradesh

88 mm (31% excess) rainfall was received over Rayalaseema and 87 mm (-1% deficit) rainfall was received over Coastal Andhra during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal over Rayalaseema and Coastal Andhra Pradesh for week 1 and; normal over Coastal Andhra Pradesh and below normal over Rayalaseema for week 2.

- Summer groundnut is at vegetative to pod development stage. Iron deficiency was noticed in parts of the district. Farmers are advised to spray iron sulphate @5.0 g and citric acid @1.0 g per liter of water at two times in weekly interval is recommended based on local weather conditions.
- Summer deep ploughing with sub-soiler or chisel plough will help to break the hard pans in the subsoil and increase the water retention capacity of soil
- The suitable time for sowing of rainfed groundnut is July to first week of August. Farmers are advised to select high-yielding varieties of groundnut for kharif sowing i.e., Kadiri-6, Kadiri-9, Kadiri Harithandhra, Dheeraj, Nithya Harith, Dharani, Kadiri lephakshi and TCGS-1694. Farmers are also suggested to follow seed treatment with imidacloprid 600 FS @ 1ml per kg seed and followed by tebuconazole 2 DS @ 1g or mancozeb @ 3 g/kg or *Trichoderma viride* @ 10g/kg seed.
- Pigeonpea varieties to be selected according to soil type are; For light soils: Medium duration varieties viz., PRG-176, PRG-158 and ICPL 84031. Medium to heavy soil type: Medium duration varieties (LRG-41, ICPL 85063, ICPL-87119, BSMR-786 and LRG-52).
- North Coastal Zone of Andhra Pradesh, Based on the suitability of their area, farmers can 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 and be prepared for sowing in kharif season.

Tamil Nadu

140 mm (25% excess) rainfall received over Tamil Nadu during 01 March - 25 May 2024. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal for week 1 and normal for week 2.

- Due to the forecast of above-normal rainfall, irrigation may be postponed based on soil moisture and apply crop residue mulches to all irrigated crops to maintain sufficient soil moisture. Plan for summer ploughing against the slope with soil inverting-type ploughs.

Maharashtra

27 mm (36% excess) rainfall over Madhya Maharashtra; 83 mm (238% excess) rainfall over Vidarbha; 28 mm (32% excess) rainfall over Marathwada; and 36 mm (153% excess) rainfall over Konkan region was recorded during 01 March - 25 May 2024. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal over Konkan and Vidarbha; normal over Madhya Maharashtra and below normal over Marathwada for week 1; and normal over all the four subdivisions for week 2, respectively.

Parbhani

- As per the forecast of thunderstorms along with light to moderate rainfall during next five days, store the harvested summer groundnut, turmeric and sesame produce at safe places.
- Thinning of excess sprouting should be done in the grape orchard.
- Due to the forecast of thunderstorms and rainfall during this week, mechanical support/staking is advised for newly planted vegetables /creeper vegetables.

Vidarbha

- Due to the forecast of above-normal rainfall during this week, harvesting of matured summer green gram, groundnut and sesame at the earliest; keep the harvested produce at safer places.
- Under prevailing weather conditions, it is advised to provide mechanical support to newly planted orchards and vegetables to avoid lodging due to strong winds.
- Ensure protection of farm animals during thunderstorm/lightning

Madhya Maharashtra

- Carry out deep ploughing of the field across the slope for effective weed control and to expose pupal stages of different insect pests
- Field bunding and repairing of damaged field boundaries work is to be carried out. Farm ponds, wells and bore well recharging is to be carried out during the summer season for water conservation

Konkan

- Farmers were suggested to start the land preparation operation for kharif season and expose the soil to sun which will help in controlling weeds effectively.
- Procurement of the rice seed as per requirement for kharif season was suggested.
- Recommended seed rate for rice is 5 to 6 kg per 10 guntha for bold varieties, 3.5 to 4 kg per 10 guntha for fine varieties and 2 kg per 10 guntha for hybrid varieties. Use seed rate of 3 to 3.5 kg per 10 guntha for fine varieties and 4 kg per 10 guntha for bold varieties for sowing by Rahu method.
- There is a possibility for development of spongy tissue disease in harvested mango fruits. To prevent spongy tissue disease development in mango fruits, farmers were suggested to harvest the matured mango fruits before 10 am in the morning and after 4 pm in the evening at 80 to 85% maturity and keep the harvested fruits in shade.

West Bengal

152 mm (-3% deficit) rainfall was received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 223 mm (-40% deficit) during 01 March - 25 May 2024. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is above normal rainfall over Gangetic West Bengal normal over Sub-Himalayan West Bengal during week 1 and week 2.

- Matured green gram should be harvested immediately. As there is a medium to heavy rainfall forecast farmers are advised to harvest green gram as soon as possible
- Matured Boro rice should be harvested immediately to avoid lodging loss in the upcoming rainfall situation. Farmers are requested to complete the post-harvest operations as soon as possible
- Drainage channels in the Jute field should be cleared well in advance to avoid water logging conditions. Farmers are advised to insure their jute crop to prevent any losses from upcoming thunderstorms (specially hailstorms).
- Spray Acephate 95 % SG @ 750 g/ha to control thrips, and aphid in Chilli in the early morning hrs by accessing cloud conditions.

Odisha

126 mm (13% excess) rainfall received over Odisha during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) over Odisha is above normal for both week 1 and week 2.

- Keep the harvested paddy and non-paddy crops in safer and water proof place to avoid rainfall and high wind speed.
- For safe storage of harvested paddy/rice, use the 'Super Grain Bag' which helps retain the quality, texture, colour, aroma and taste for longer period.
- Go for harvesting of matured crops like groundnut to avoid viviparous germination.
- Harvesting of Groundnut should be done when 75-80 % of pods are fully matured. The important indication of maturity is yellowing of foliage and necrotic spotting of leaves and dropping of older leaves. Pods become very hard and inside the shell turns dark with netted venation.
- To manage whitefly in Tomato and Brinjal crop, use yellow sticky traps @ 8-10/acre to attract and kill the insects. During primary stage of pest infestation spray neem-based pesticide (Azadirachtin) 1500 PPM @ 600 ml/acre by mixing in 200 litre of water.

Chhattisgarh

81 mm (148% large excess) rainfall received over Chhattisgarh during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) over Chhattisgarh is above normal for week 1 and week 2.

- Harvesting of matured summer paddy is recommended.

- Use pheromone traps@10Nos/acre to control borer in okra and brinjal and destroy the upper portion of affected plants.
- To ensure that animals do not suffer from salt deficiency, give the salt mixture in prescribed quantity (50-60 gram salt per animal per day) in granules or in distributed form.

Uttar Pradesh

25 mm (-14% excess) rainfall received over Western Uttar Pradesh and rainfall received over Eastern Uttar Pradesh was 17 mm (-40% deficit) during 01 March - 25 May 2024. The extended range weather forecast (rainfall) for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) is below normal over both the subdivisions during week 1 and week-2.

Western Uttar Pradesh

- As per the forecast of hot and dry weather appearing during this week farmers are advised that grain should be dried after threshing, cleaning and maintain a moisture of 8 to 10% in the grain before storage in metallic containers.
- Farmers are advised to provide light irrigation in summer maize, which is at the milk stage
- Spray 2% Neem oil solution against fruit borer and white fly in brinjal and chilli.
- To protect cows and buffaloes from heat waves, bathing should be taken up at the morning and evening before milking. Drinking water should be given thrice a day. To keep their room cool, Jute bags may be used as curtains in the door and windows and it should be wetted at noon and evening. A balanced diet should be given to the milch animals

Eastern Uttar Pradesh

- Sowing of fodder crops (gwar, maize, bajra) may be done during this week. Adequate moisture should be maintained for maximum germination of seeds. Sowing should be done at a depth of 3-4 cm and at row-to-row spacing of 25- 30 cm.
- Given the heat wave in the next few days, 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 a physical barrier

Himachal Pradesh

223 mm (-3% deficit) rainfall was received over Himachal Pradesh during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) over Himachal Pradesh is below normal for both week 1 and week 2.

- To reduce the impact of heat stress, farmers are advised to cover their heads and ear with a cap/cloth.
- Apply light irrigation in morning and evening hours only in vegetable and other crops.
- Farmers are advised to sprinkle the water on body of animals 2-3 times in a day.
- Deep ploughing after rabi crop harvest to conserve more water in field for more water conservations during kharif season.

- Storage of wheat grains in the right moisture and the gunny bags should be dried in the sun so that eggs and pupating stages of insects as well as inoculum of diseases get destroyed. Weather is conducive for stored grain pests like rice weevil, lesser grain borer and rice moth. In Grain store bins put one pouch of celhpos (3g) or quickphos (12g) or Fumino pouch in a wet cloth in the middle of the bin and keep the bin airtight for some time.
- Sowing of maize crops should be delayed in rainfed areas.
- Sowing of fodder maize along with soybean or cowpea can be done in the irrigated areas to get green fodder
- Pluck the tea leaves (two leaves and a bud) at 8-10 days intervals to maintain the quality and productivity

Jammu

300 mm (-6% deficit) rainfall was received over Jammu during 01 March - 25 May 2024. The extended range weather forecast (rainfall) provided for the next two weeks (24 - 30 May 2024 and 31 May - 06 Jun 2024) over Jammu is below normal for week 1 and week 2.

- Give irrigation to the nursery daily due to high temperature and hence evaporation rate. Irrigation is recommended during evening hours. Cover the nursery with grass/straw to prevent the evaporation rate.
- Farmers may spray imidacloprid @ 0.3ml/lit water to check leaf hopper & mealy bug and dimethoate @ 1ml/lit to control mango hopper.
- Install 5 pheromone traps per acre to monitor fruit fly in cucurbits.. If the population is more then, it is advised to spray cyantraniliprole 10.26 % OD @ 1.5 ml/litre to control fruit fly.
- Due to chances of increase in temperature and hence, for preventing animals from heat stress during hot weather conditions following points may be kept in mind:
 1. Provide an adequate amount of fresh cool and clean drinking water
 2. Plant shady trees around the sheds.
 3. Provide water baths 3-4 times in a day.
 4. Install fans and desert coolers for high-yielding animals.
 5. Sprinkling of water in sheds to reduce heat stress.
 6. Good quality green leguminous and non-leguminous fodders. Maize and bajra. Urea treatment of dry straw/fodder.
 7. Increase protein content in animal ration by 2%.

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