



राष्ट्रीय कृषि मौसम परामर्शी सेवाएं बुलेटिन National Agromet Advisory Services Bulletin

जारी करने की तिथि / Date of issue: 6 November 2023

आधारित / based on

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

वैधता / Validity: 03 - 16 November 2023

जारीकर्ता / Issued by

अखिल भारतीय समन्वित कृषि-मौसम विज्ञान अनुसंधान परियोजना

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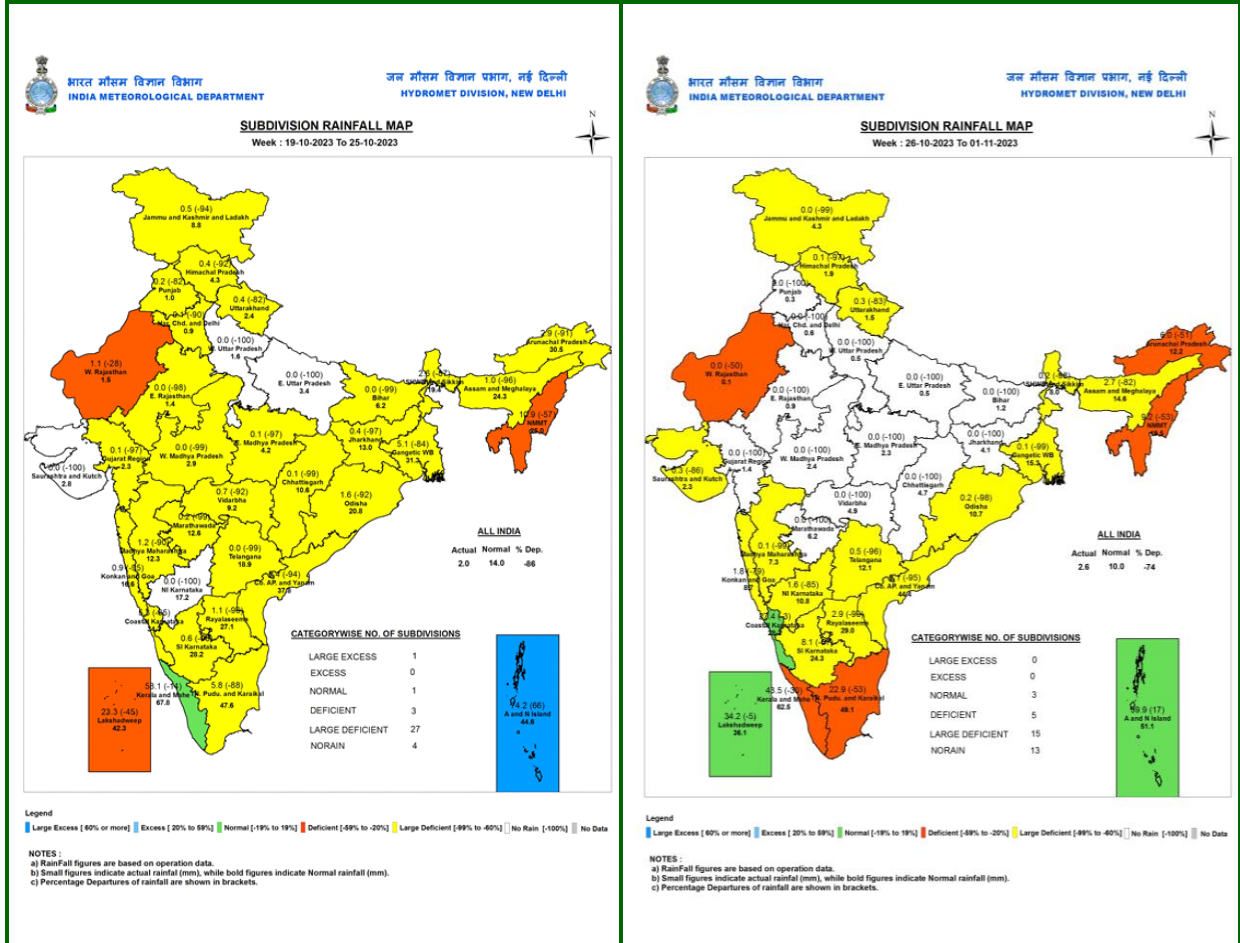
पृथ्वी प्रणाली विज्ञान संगठन

Earth System Science Organization

Realized Rainfall and Extended Range Forecast

Realized Rainfall

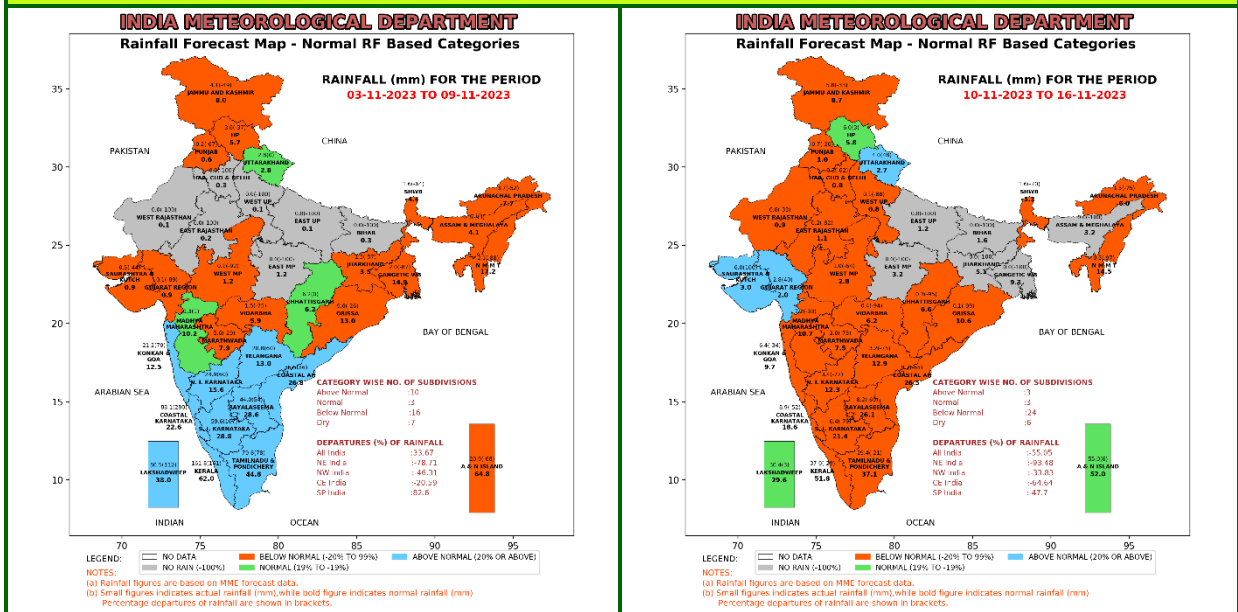
(19th October to 1st November, 2023)



- Normal or above normal rainfall occurred in both the weeks over Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks over Kerala & Mahe, Coastal Karnataka and Lakshadweep.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the country.

Extended Range Forecast System

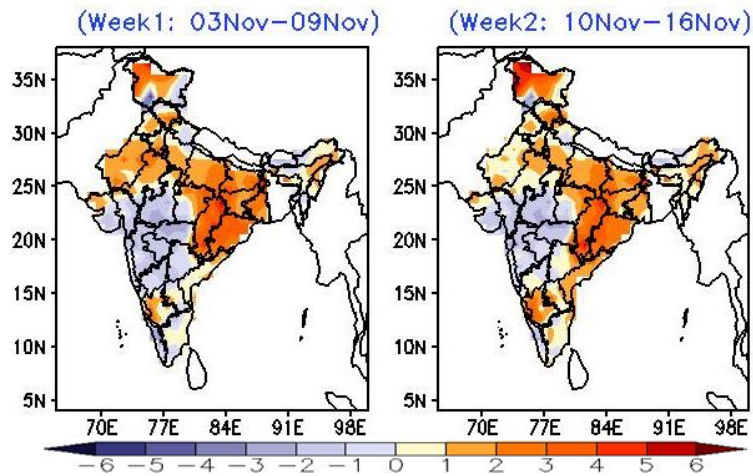
Rainfall forecast maps for the next 2 weeks (IC- 1st November) (03rd to 16th November, 2023)



- **Week 1 (03.11.2023 to 09.11.2023):** Rainfall is likely to be above normal over south peninsula.
- **Week 2 (10.11.2023 to 16.11.2023):** Rainfall is likely to be below normal in some parts of South India.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for the next 2 weeks (IC- 1st November)
(03rd to 16th November, 2023)**

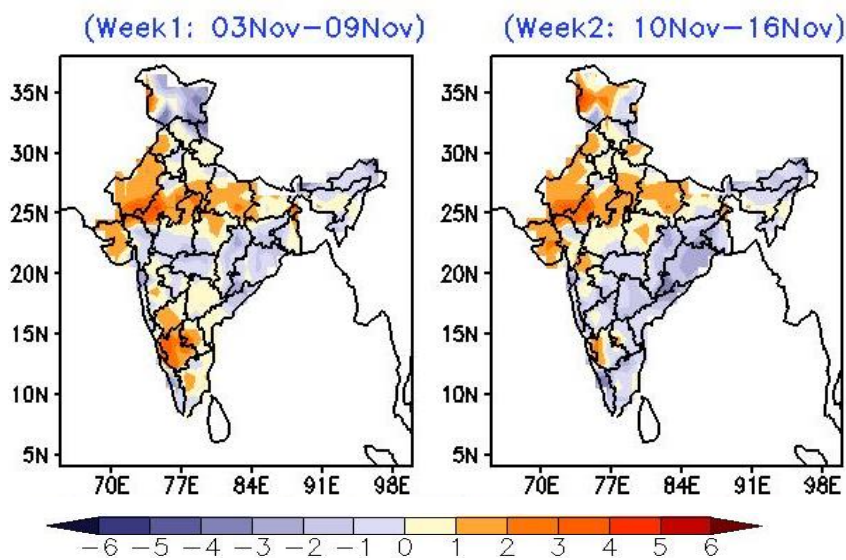
MME forecast Tmax anomaly (Deg C)



Maximum Temperature (Tmax)

- **Week 1 (03.11.2023 to 09.11.2023) and Week 2 (10.11.2023 to 16.11.2023):** Tmax is likely to be above normal over most parts of the country except western parts of Central India and Kerala.

MME forecast Tmin anomaly (Deg C)



Minimum Temperature (Tmin)

- **Week 1 (03.11.2023 to 09.11.2023):** Tmin is likely to be normal to below normal over parts of Jammu & Kashmir, Arunachal Pradesh and some parts of Central and East India. However, it is likely to be above normal over North West India and Karnataka.
- **Week 2 (10.11.2023 to 16.11.2023):** Tmin is likely to be below normal over many parts of the country except over North West India.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 38.6 mm (14% excess) and over West Uttar Pradesh was 9 mm (-55% deficit) during 01 October - 02 November 2023. The extended range weather forecast (rainfall) for the next two weeks (03 - 09 November 2023 and 10 - 16 November 2023) is no rainfall over West Uttar Pradesh and East Uttar Pradesh for week-1 and below normal rainfall over West Uttar Pradesh and no rainfall over East Uttar Pradesh for week-2.

Western Uttar Pradesh

- There is a forecast of clear weather during next week, farmers are advised to harvest mature pearl millet and rice crops and thresh it.
- Sowing of rainfed wheat varieties viz., *K-8027, K-8962, K-9465, K-9351, HDR-77, HD-2888 and K-9644* and recommended durum varieties such as *Meghdoot, Vijaya, GW-2, HD-4672 and Sujata* is advised.
- Sowing of medium duration of potato varieties is advised. Recommended varieties are *K-sheetman, K-Sinduri, Chipsona-1 and 2*. It is also advised to keep potato seed out from cold storage, before 7-10 days of sowing.

Eastern Uttar Pradesh

- Due to the forecast of clear weather, farmers are advised to harvest the rice crop and do not burn stubble in the fields after harvesting paddy.
- Farmers are advised for sowing of peas with recommended varieties like *Azad Matar-3, Azad Matar-4, Kashi Uday, Kashi Nandani, Kashi Samridhi, Narendra Sabzi Matar-1, 2, 3, Arkel* etc.
- Sowing of mustard crop is advised with recommended varieties viz., *RH-725, NDR 8502, Varuna, Kanti, Peetambri* etc.
- Under prevailing weather condition, there is a chance of thrips attack in chilly. To manage, it is advised to spray 2% neem oil + garlic emulsion under the leaf surface at 10 days intervals. If the attack is severe, apply Cyantraniliprole 10.26 % OD @ 1ml/litre of water.

Uttarakhand

20 mm (-36% deficit) rainfall received over Uttarakhand during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Uttarakhand is normal for week-1 and above normal for week-2.

- Under prevailing weather condition, farmers are advised to prepare the field and sowing of mustard and wheat crop. In the case of mixed cropping (wheat+mustard), after the sowing of the wheat, the mustard seeds are advised to spread over the field in adequate proportions. (80 kg seed of wheat and 1.5 kg seed of mustard per hectare).

- Weeding is advised in garlic (leaf formation/leaf development stage) and in onion (seedling stage) crop.

Himachal Pradesh

27.3 mm (6% excess) rainfall was received over Himachal Pradesh during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Himachal Pradesh is below normal for week-1 and; normal for week-2.

- Under prevailing weather condition, farmers are advised to go for sowing of timely sown wheat crop. The varieties recommended are *HPW 368, HPW 349, HS 562, HPW 249, HPW 236, VL Gehun 907, HS 507 and HPW 155*. A seed rate of 100 kg/ha is recommended.
- Weeding and hoeing in the standing vegetable crops is advised for optimum growth and also advised to apply light irrigation.
- The varieties of gram recommended for sowing in the lower hills of the state are *Himachal Chana-1, Himachal Chana-2, HPG-17, Palam Chana-1 and GPF-2*. The optimum seed rate for gram is 40 – 45 kg / ha for all gram varieties except for *HPG-17* which is sown at the seed rate of 80 kg / ha.
- Farmers are advised to go for sowing for barley crop. The varieties recommended are *Him Palam Jau 1 (HBL 713), HBL 276 (Harit), HBL 113 (Vimal), HBL 391 (Gokul) BHS 400 (Pusa Sheetal)* while dual purpose varieties (for green fodder and grain) that can be sown include *BHS 380 (Pusa Losar) and Him Palam Jau 2 (HBL 804)*.

Jammu

80 mm (133% large excess) rainfall was received over Jammu during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Jammu is below normal for week-1 and; week-2.

- Sowing of tomato, brinjal is recommended on raised nursery beds to avoid water stagnation causing damping off. Before sowing, treat the seeds with Carbendazim @1 gm/kg of seed against damping off.
- Weeding and hoeing is recommended in cole crops (knol khol, cabbage, cauliflower and broccoli).
- Under prevailing weather condition, farmers may go for sowing of mustard (var: *Pusa Bold, RSPR-01, RSPR-03, Kranti*) during clear weather at vattar condition of soil. Treat the seed with Captan or Thiram @ 3 g/kg seed before sowing for management of Alternaria blight, white rust and downy mildew disease.

Punjab

24 mm (202% large excess) rainfall was received over Punjab during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Punjab is below normal for week-1 and; week-2.

- Farmers are advised to start farm operations like irrigation, pesticide application, etc. as dry weather is likely to prevail during the next week.
- It is the optimum time for the sowing of desi gram PDG-4 under rainfed conditions. It is advised that do not sow this variety in humid areas of Punjab.
- It is the optimum time for sowing of late season varieties and transplanting of mid-season varieties of cauliflower, and also the best time for sowing of spinach, fenugreek, coriander, radish, turnip, garlic and early recommended varieties of pea like *Matar Ageta-7* and *AP-3*. Sowing of early varieties of potato viz., *Kufri Surya*, *Kufri Pukhraj*, *Kufri Ashoka* and *Kufri Chandramukhi* is also advised.

Jharkhand

135.2 mm (81% large excess) rainfall was received over Jharkhand during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Jharkhand is below normal for week-1 and no rainfall for week-2.

- In the areas where paddy crop is about to mature, farmers are advised to stop giving irrigation two weeks before harvesting. After harvesting crop dry the crop in the field for 2-3 days and thereafter threshing is advised.
- Due to fluctuation in day and night temperature there may be infestation of case worm in rice crop. To control, it is advised to spray Phenthoate 50 % EC @ 1ml per of litre water or Lambda Cyhalothrin 2.5 % EC @ 200 ml/acre or Chlorpyrifos 20 EC @ 400 ml/acre in 500 litre water
- Under prevailing weather condition, it is advised to prepared the seedlings of improve varieties of cauliflower like *Pusa Katki*, *Pusa Deepali*, *Pant Shubhra*, to plant them in the main fields at a distance of 45X30 cm.
- Farmers are advised to sow the seeds of tomato in the nursery bed, farmers who have already raised the seedlings, may transplant them at a distance of 60 cm (row to row) and 40 cm (plant to plant) for HYV and for hybrid varieties maintain the distance 60 x 60 cm.

West Bengal

172 mm (25% excess) rainfall received over Gangetic West Bengal and rainfall received over Sub Himalayan West Bengal was 185 mm (28% excess) during 01 October - 02 November 2023. The extended range weather forecast (rainfall) for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; no rainfall over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-2.

- Farmers are advised to process the harvested rice as early as possible and store in clean and airy condition inside gunny bags.
- Monitoring of sucking pest in brinjal crop is advised to install yellow sticky traps @10 traps per acre for sucking pests.

Chhattisgarh

30 mm (-52% deficit) rainfall was received over Chhattisgarh during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Chhattisgarh is normal for week-1 and; below normal for week-2.

- Farmers are recommended to provide irrigation to late-maturing rice which is at milking stage, in accordance with the crop's water needs under the current weather conditions
- For the management of army worm (ETL 1 caterpillar/ plant) in rice crop, it is advised to spray Fipronil 5% SC @1 litre per hectare.

Madhya Pradesh

16 mm (-57% deficit) rainfall was received over Madhya Pradesh during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Madhya Pradesh is no rainfall for week-1 and; week-2.

- Under prevailing weather condition, farmers are advised to harvest of early maturing rice varieties (June month sown).
- Sowing of *rabi* season sugarcane in the field particularly in Central Narmada Valley agroclimatic zone is advised.
- Due to forecast of clear weather condition during next week and good available soil moisture, farmers are advised for sowing of *rabi* season vegetables.

Odisha

75 mm (-34% deficit) rainfall received over Odisha during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Odisha is below normal for week-1 and; week-2.

- After threshing, it is advised to sun-dry paddy grains to 14% moisture for consumption purpose and for seed purpose dry it to 12% moisture for better self-life.
- Prevailing weather condition is optimum for land preparation and nursery sowing of cauliflower, cabbage, knolkhol, carrot and radish.
- Farmers are advised to grow high yielding potato varieties viz., *Kufri Jyoti*, *Kufri Badsah* and *Kufri Sundari*, *Kufri Khyaati*, *Kufri Suriya*, *Chipsona* etc.
- Under prevailing weather condition, sowing of onion varieties like *Agrifound light Red*, *Agrifound Dark Red*, *Bhima Shakti*, *Bhima Super* etc. are suitable for our Odisha condition during winter season.

Gujarat

1.0 mm (-96% large deficit) rainfall received over Gujarat during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) over Gujarat is below normal rainfall for week-1 and above normal rainfall for week-2.

- After harvesting of kharif crop, land preparation for cultivation of rabi pulses like Indian bean, gram, green gram, rabi pigeon pea etc is advised.
- For management of downy mildew in bitter gourd and bottle gourd, it is advised to spray Mancozeb 30 g/15 litres of water. Install fruit fly trap @ 4-5 trap/acre for management of fruit fly.

Maharashtra

22 mm (-72% large deficit) rainfall over Madhya Maharashtra; 5 mm (-91% large deficit) rainfall over Vidarbha; 8 mm (-90% large deficit) rainfall over Marathwada; and 89 mm (-24% deficit) in Konkan region was recorded during 01 October - 02 November 2023. The extended range weather forecast (rainfall) for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) is above normal over Konkan and normal over Madhya Maharashtra and below normal over Marathwada and Vidarbha for week-1 and; below normal over Konkan, Madhya Maharashtra, Marathwada and Vidarbha for week-2, respectively.

Parbhani

- Picking of timely sown cotton is advised. It is also advised to sundry the cotton before storage, so that quality of cotton may not deteriorate.
- As per forecast of below normal rainfall during next week, irrigation management is advised in pigeon pea crop at bud initiation to flowering stage so that water stress may not occur during flowering stage.
- As per forecast of dry weather during next week, it is advised to spray 1% Bordeaux mixture and irrigation management after October pruning in grape orchard.

Konkan

- For sowing, nursery of brinjal, chilli and tomato crops, prepare a raised bed of 3 m length x 1 m breadth x 15 cm height. Mix well decomposed FYM @500 per guntha into the soil at the time of bed preparation.
- There is a possibility of the incidence of tea mosquito bug on newly developed flush of cashewnut. If incidence is noticed, spray Lambda cyhalothrin 5% EC @ 6 ml per 10 litres during clear weather (no rainfall).
- Due to increase in temperature, fruit cracking in arecanut is observed at some places in the district, to control, it is advised to provide irrigation and spray Borax 0.5%.
- There is possibility of increase in temperature, hence in poultry shed, increase the water pot and provide adequate and clean water for drinking.

Madhya Maharashtra

- Since there was no rainfall during last week, farmers are advised to use mulch to reduce 60 to 80 % moisture loss from evaporation. To conserve this moisture, use grassy weed, stubbles and another leftover in the field. Mulching should be carried out before 50 days of sowing in sorghum.

- Thinning in *rabi* sorghum (8-10 DAS) is recommended for maintaining the plant population and reducing the moisture loss due to competition.
- To conserve soil moisture in dryland area, first hoeing @ 20 DAS and second hoeing at one month after sowing of chickpea is advised to fill deep cracks in soil.

Kerala

331 mm (2% excess) received over Kerala during 01 October - 02 November 2023. The extended range weather forecast (rainfall) for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) is above normal week-1 and; below normal for week-2.

- To control sigatoka leafspot disease in banana cut and remove all severely affected leaves and spray Propiconazole 1 ml/litres of water.
- There is a chance of thrips infestation in chilli crop. If the infestation is less, it is advised to spray 2% neem oil+ garlic emulsion under the leaf surface at 10 days intervals. If it is severe, then spray Cyantraniliprole 10.26 % OD @ml or Acetamiprid 20 % SP @0.2g per litre water.
- Under prevailing weather condition, there is a chance of occurrence of anthracnose disease in cowpea is more. As a prophylactic measure, it is advised to drench pits of cow pea with Copper oxy-chloride @ 4 g/litre.

Anantapur

13 mm (-91% large deficit) rainfall was received over Rayalaseema and 20 mm (-90% large deficit) rainfall was received over Coastal Andhra Pradesh during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) is above normal over Rayalaseema and Coastal Andhra Pradesh for week-1 and; below normal over Rayalaseema and Coastal Andhra Pradesh for week-2.

- On receipt of sowing rains, farmers are advised to take up sowing of chickpea up to November 15th in black soils of Ananthapuramu, Kurnool, Guntur, Kadapa and Nellore districts and also select high yielding varieties i.e., *NBeG-776*, *NBeG-857*, *NBeG-452*, *NBeG-49* with seed rate of 30-35 kg/ acre.
- Under irrigated conditions, farmers of Anantapuramu, Kurnool, Chittoor and Kadapa districts, are advised to take up *rabi* groundnut sowings and select the varieties *Dharani*, *Narayani*, *K6*, *K7*, *Kadiri Amaravathi*, *Bheema*, *TCGS1157* and *TCGS1073*.
- Present weather conditions are favourable for the incidence of pink boll worm in cotton grown in Srikakulam, Vizianagaram and Krishna districts. If infestation is more than 10% (ETL) spray of Profenofos 50% EC @ 1 to 1.5 ml or Chlorpyrifos 50% EC @ 1 to 1.5ml or Cypermethrin 10 % EC 1ml 10 litres of water is advisable.
- Farmers are advised to protect animals from a sudden drop in temperature by keeping the animals in a covered shed/area during the night. Furthermore, the bedding/hay in the animal sheds must be kept dry and changed/aired every day.

Karnataka

66 mm (-55% deficit) rainfall received over South Interior Karnataka, 136 mm (-32% deficit) over Coastal Karnataka and 11 mm (-90% large deficit) rainfall received over North Interior Karnataka during 01 October - 02 November 2023. The extended range weather forecast (rainfall) provided for the next two weeks (27 October - 02 November 2023 and 28 October - 09 November 2023) is above normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-1 and; below normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-2.

South Interior Karnataka

- Paclobutrazol soil application @ 5 g a.i. per plant is recommended for uniform flowering behaviour in Mango crop.
- Farmers are advised to provide protective irrigation in finger millet crop (tillering, ear head formation and grain filling stage).
- Early sown ragi crop is at ear head formation and grain filling stage, farmers are recommended for ear head tying to protect from lodging of crop.
- Wherever over population of crop plants is existing, thinning operation is advised for better availability of scarce soil moisture to the reduce population of crop plants.

North Interior Karnataka

- Due to no rainfall and increase in maximum temperature, there is a moisture stress condition in all rabi crops. To manage, it is advised for repeated intercultivation to conserve soil moisture and provide protective irrigation as per requirement of the crop.
- To manage anthracnose disease in grapes orchard, it is advised to spray Thiophanate methyl 1 g dissolved in one litre of water or Dithane Z 78 2 gram per litre of water.

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