



National Agromet Advisory Services Bulletin

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based on

Extended Range Weather Forecast (ERFS)

Validity: 18 November - 01 December 2022

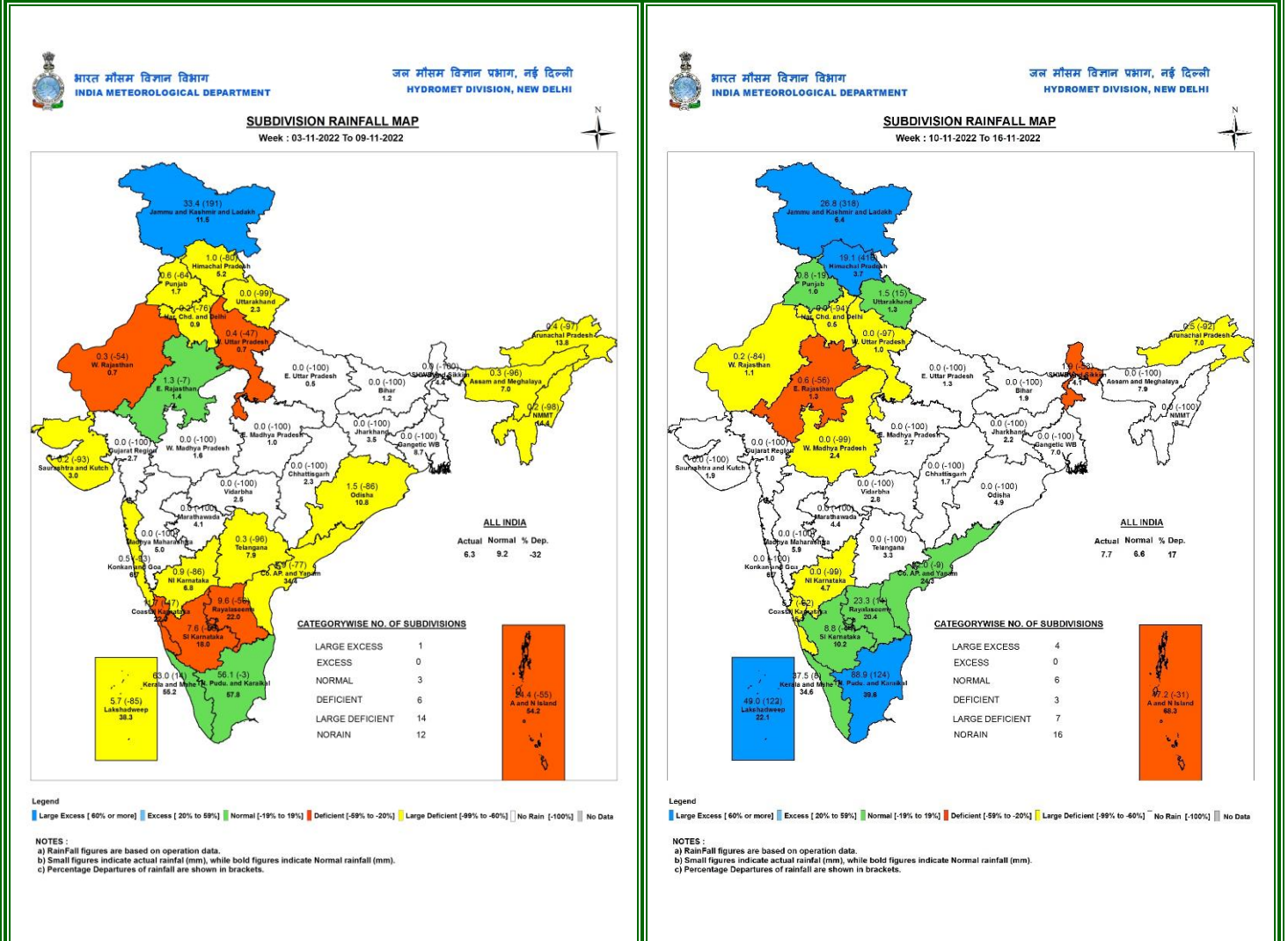
Issued by

**AICRP on Agro-Meteorology (AICRPAM)
Central Research Institute for Dryland Agriculture (CRIDA)
Indian Council of Agricultural Research (ICAR)
&
India Meteorological Department (IMD)
Earth System Science Organization**

Realized Rainfall and Extended Range Forecast (Rainfall and Temperature)

Realized Rainfall

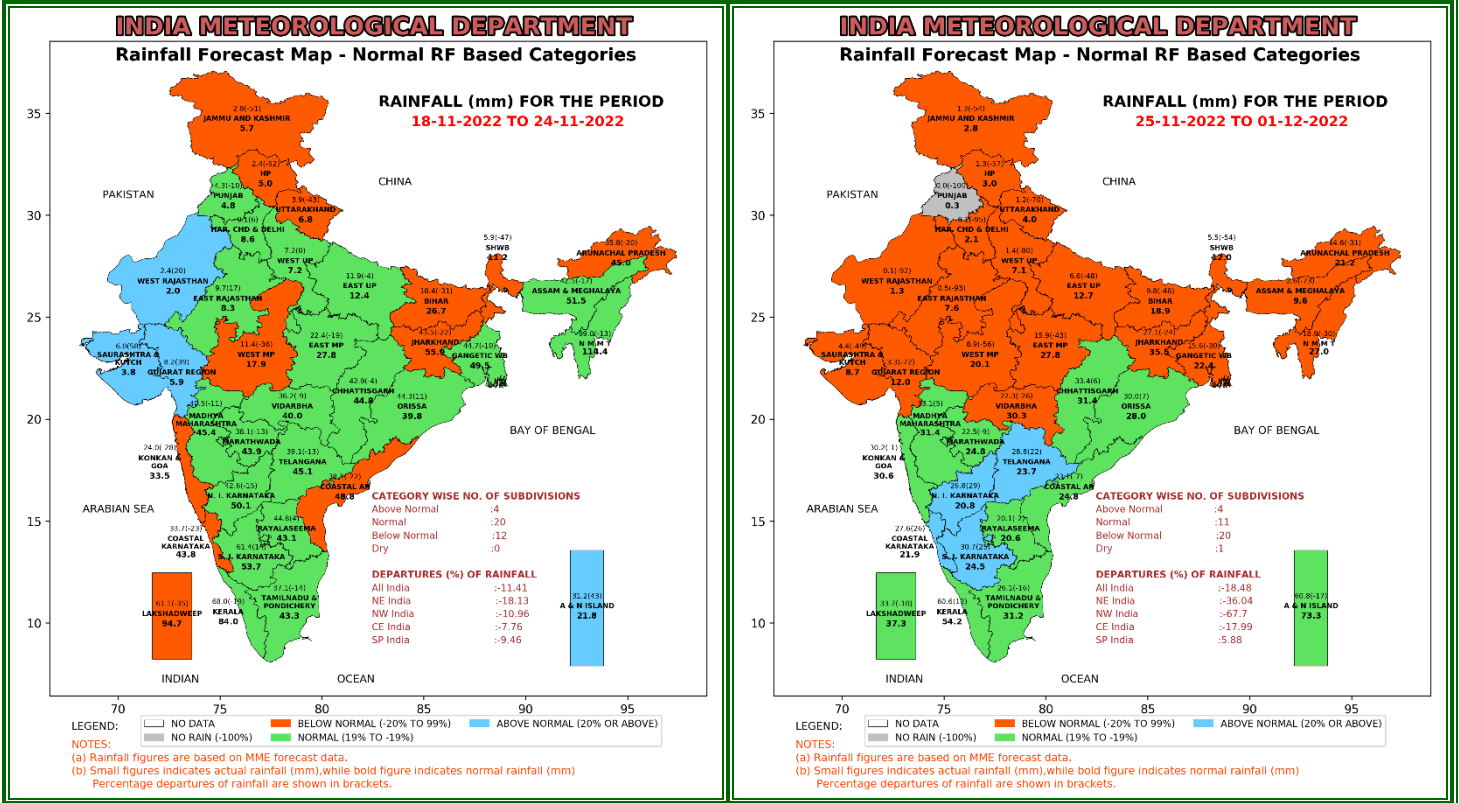
(3rd November to 16th November, 2022)



- Normal or above normal rainfall occurred in both the weeks in Jammu & Kashmir and Ladakh (UTs), Tamil Nadu Puducherry & Karaikal and Kerala & Mahe.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Punjab, Uttarakhand, East Rajasthan, Andhra Pradesh & Yanam, South Interior Karnataka 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- 16th November) (18th November to 1st December, 2022)



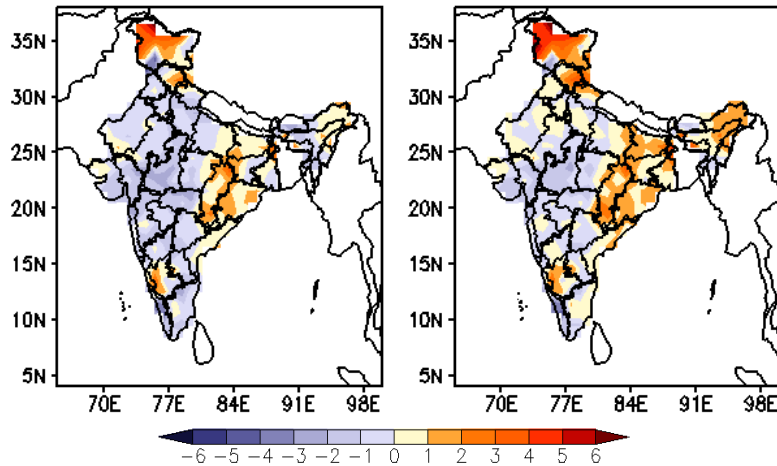
- **Week 1 (18.11.2022 to 24.11.2022) :** Above normal rainfall is likely to occur over West Rajasthan, Gujarat and Andaman & Nicobar islands and normal rainfall is likely over many parts of country.
- **Week 2 (25.11.2022 to 01.12.2022):** Normal to slightly above normal rainfall is likely over the southern peninsula.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC- 16th November)
(18th November to 1st December, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 18Nov-24Nov)

(Week2: 25Nov-01Dec)



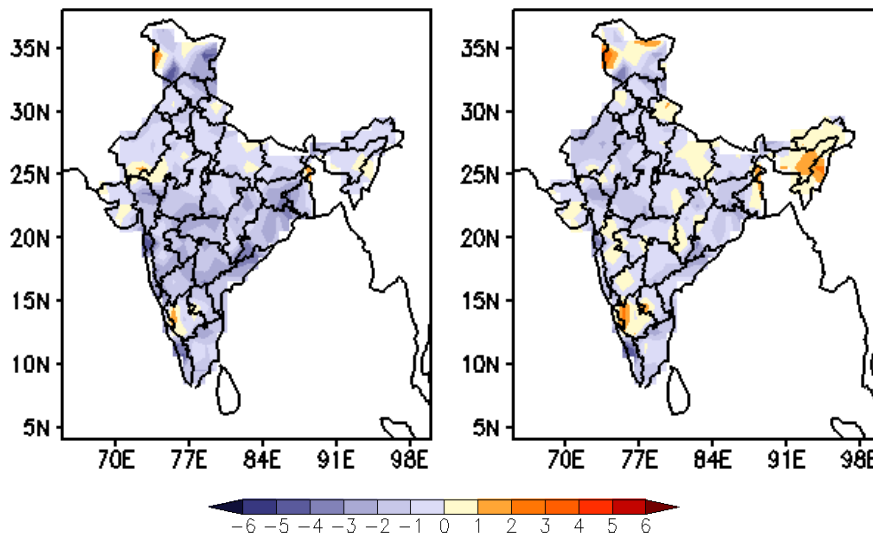
Maximum Temperature (Tmax)

- **Week 1 (18.11.2022 to 24.11.2022):** Tmax will be slightly higher than normal over Odisha, Chhattisgarh, Jammu & Kashmir, Uttarakhand, Jharkhand and adjoining regions. It will be slightly below normal over northwest India and western parts of central India.
- **Week 2 (25.11.2022 to 01.12.2022):** Tmax will be slightly higher than normal over Odisha, Chhattisgarh, Jammu & Kashmir, Uttarakhand, Jharkhand and north eastern regions.

MME forecast Tmin anomaly (Deg C)

(Week1: 18Nov-24Nov)

(Week2: 25Nov-01Dec)



Minimum Temperature (Tmin)

- **Week 1 (18.11.2022 to 24.11.2022) and Week 2 (25.11.2022 to 01.12.2022):** Tmin will be normal to below normal over most parts of India and it is likely to be slightly higher over northeast India and isolated areas of Indo-Gangetic region.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 149 mm (320% large excess) and over West Uttar Pradesh was 140 mm (520% large excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1; below normal over West Uttar Pradesh and East Uttar Pradesh for week-2.

Western Uttar Pradesh

- If pigeon crop infested by leaf webber then, it is advised to spray Emamectin benzoate 5% SG @ 250g/ha or Cypermethrin 25% EC @ 500ml/ha with 500 litres of water solution.
- Under prevailing weather condition, it is advised to pick up mature fruits of standing vegetable crops like brinjal, chilies, pumpkin, bottle guard etc. and transplants the new seedlings of winter vegetables.

Eastern Uttar Pradesh

- Under prevailing weather condition, transplanting of mature seedlings of cauliflower, cabbage, broccoli and tomato on raised bed is advised.
- Farmers are advised for sowing of pea with recommended cultivars are *Pusa Pragati* and *Arkel*.

Bihar

The amount of rainfall received over Bihar was 81 mm (33% excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is below normal for week-1 and week-2.

- Sowing of *rabi* maize is advised. *Shaktiman-1 white*, *Shaktiman-2 white*, *Shaktiman-3 yellow*, *Shaktiman-4 yellow*, *Shaktiman-5 yellow*, *Ganga-11 orange yellow*, *Rajendra sanker makka-1* *Rajendra sanker makka-2* and *Rajendra sanker makka deepjwala* varieties of hybrid maize and *Dewki white*, *Lakshmi white* and *Suaan yellow* varieties of composite maize are recommended for north Bihar.
- Planting of potato is also advised. *Kufri jyoti*, *Kufri ashoka*, *Kufri chandramukhi*, *Kufri badhsha*, *Kufri lalima*, *Kufri sinduri*, *Kufri arun*, *Kufri anand*, *Kufri pusker*, *Rajendra aalu-1*, *Rajendra aalu-2* and *Rajendra aalu-3* varieties of potato are recommended for planting in north Bihar region.

Kerala

The amount of rainfall received over Kerala was 336 mm (-20% deficit) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is normal for week-1 and week-2.

- There is a chance of green leaf hopper attack in bitter melon. To protect, it is advised to spray 2 g thiamethoxam per 10 litres of water.

- To control the slow wilt disease in pepper, drench the basin of each plant with 3 g Copper Oxy Chloride (COC) per one litre of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 329 mm (14% excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is normal for week-1 and week-2.

- Irrigation may be skipped since moderate rainfall is expected for the coming weeks.
- Prevailing weather conditions are congenial for fall army worm and leaf blight incidence in maize. Farmers are advised for foliar spray of Cyantraniliprole (19.8% SC) + Thiamethoxam (19.8 % FS) 4 ml/10 ml of water and Emamectin benzoate @ 4.5 g / 10 litres of water.

Maharashtra

159 mm (75% large excess) rainfall over Madhya Maharashtra; 132 mm (57% excess) in Marathwada; 169 mm (28% excess) in Konkan region and 87 mm (35% excess) over Vidarbha was recorded during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is normal over Madhya Maharashtra, Marathwada and Vidarbha and below normal over Konkan for week-1 and; is normal over Madhya Maharashtra, Marathwada and Konkan and below normal over Vidarbha week-2, respectively.

Vidarbha

- In pigeon pea crop at flowering and pod filling stage, keep surveillance for incidence of Maruca pod borer (*Maruca vetrarta*). If infestation observed, it is advised to spray Flubendiamide 20 WG @ 6 g or Thiodicarb 75 WP @ 25g or Novaluron 5.2% + Indoxacarb 4.5% SC @ 16 ml per 10 litres of water.
- Need based protective irrigation is advisable in earlier sown wheat crop. For delayed sowing of irrigated wheat (November 15 - December 15) recommended varieties are *PDKV Sardar (AKAW 4210-6)*, *AKAW 4627*, *AKW-1071 (Purna)*, *AKW-381* and *HI 977*.

Marathwada

- For management of rhizome rot in turmeric drenching of Biomix @ 150g per 10 litres of water during wapsa condition.
- Under prevailing weather condition, transplanting of tomato, onion, cabbage etc. and sowing of spinach, carrot, methi etc. is advised. Irrigation management needs to be done per requirement in transplanted vegetable crops.

Madhya Maharashtra

- Mulching is advised to reduce the evaporation from soil in orchard crops.

- For control of pod borer in pigeon pea, it is advised to install the Pheromone traps @ 5/ha. or spray Monocrotophos @ 20 ml/10 litres of water.

Konkan

- Due to dry weather and increase in temperature, there is possibility of incidence of rugose spiraling white fly on coconut. If incidence is noticed three spray of Neem oil 0.5% @50 ml per 10 litres of water at 15 days interval followed by three sprays of water by pressure pump at 10 days interval.
- To protect the stem of areca nut from sun scorching, cover the stem with grasses or branches of arecanut palm.

Odisha

The amount of rainfall received over Odisha was 125 mm (-4% deficit) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Odisha is normal for week-1 and week-2.

- To control leaf eating caterpillar and fruit borer in winter vegetables like brinjal, cauliflower, cabbage, chilly and tomato, it is advised to apply 0.5 g Emamectin benzoate or 0.4 ml Spinosad per litre of water.
- To check flower-drop in chilli, it is advised to spray Alpha Naphthyl Acetic Acid 4.5 % SL (NAA) @ 3.5 ml/15 litres of water twice at flower initiation stage and 20-30 days later of first spray.

Jammu

101 mm of rainfall (92% large excess) was received over Jammu during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Jammu is below normal for week-1 and week-2.

- Sowing of late sown mustard crop variety *NRCHB101* can be taken up by the end of this week due to sufficient soil moisture. Further delay in sowing will cause reduction in yield.
- Due to the presence of sufficient moisture in the soil, farmers are advised to continue the sowing of wheat varieties (*PBW-396*, *PBW-175* and *RSP-81* (jitto) for rainfed areas and *PBW-550*, *DBW-17*, *DBW-222*, *DBW-187*, *Raj-3077*, *RSP-303*, *WH-542*, *WH-1105*, *PBW-502*, *HD-2687*.

Assam

The amount of rainfall received over Assam during 01 October - 18 November 2022 was 221 mm (30% excess). The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Assam is normal for week-1 and below normal for week-2.

- It is recommended to collect seeds of recommended varieties of boro rice such as *Boro-1*, *Boro-2*, *Cauvery*, *Joymati*, *Dinanath*, *Swarnabh*, *Kanaklata* etc. for nursery sowing during

November/December month.

Karnataka

Rainfall received during 01 October - 18 November 2022 over South Interior Karnataka was 243 mm (38% excess), 160 mm (34% excess) over North Interior Karnataka and 157 mm (-35% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is below normal over Coastal Karnataka and normal over North Interior Karnataka and South Interior Karnataka for week-1 and above normal over Coastal Karnataka, North Interior Karnataka and South Interior Karnataka for week-2.

South Interior Karnataka

- Under prevailing weather following crops with recommended varieties are advised:

Horse gram: (var. *PHG-9*, *KBH-1*, *Niger*), Field bean (var. *HA-3* and *4*) and sunflower: (*KBSH-1,41,42, 44* and *53*), Cow pea (*KBC-1*, *TVX-944* and *PKB-4* for vegetable purpose).

North Interior Karnataka

To manage sucking pests in pomegranate, take up spraying of 0.3 ml Imidacloprid or 0.25 ml + Thiamethoxam in one litre of water.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 72 mm (9% excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Chhattisgarh is normal for week-1 and week-2.

- Under prevailing sowing of mustard is advised. Recommended improved varieties of mustard are *Pusa jai kisan*, *Pusa bold*, *Vardan*, *Varuna*, *Kranti*, *Chhattisgarh Mustard* etc.
- Due to decrease in temperature and its possible adverse effects, dairy farmers are advised to keep the animals in the cattle shed with concrete / brick roof.

Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 247 mm (-6% deficit) and over Rayalaseema was 186 mm (-1% deficit) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is below normal over Coastal Andhra Pradesh and normal over Rayalaseema for week-1 and normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

- The present weather conditions favorable for the incidence of late leaf spot and rust in groundnut in Ananthapuramu, Kurnool, Kadapa and Chittoor districts. To control the diseases, it is advised to spray of Mancozeb @ 2 g and Carbendazim @ 1g / litre of water is recommended.

Gujarat

The amount of rainfall received over Gujarat was 37 mm (39% excess) during 01 October - 18

November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Gujarat is above normal for week-1 and below normal for week-2.

- For the control of fruit fly in guava, it is advised to install pheromone trap @ 5-6 trap/ha and spray Malathion 50 % EC 100 ml + 150 g jaggery solution in 100 litres water during evening hours with large spray droplets.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 119 mm (-22% deficit) and Sub Himalayan West Bengal was 209 mm (37% excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) is normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and below normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- It is the optimum time to harvest and post-harvest processes for late transplanted *kharif* rice.

Uttarakhand

The amount of rainfall received over Uttarakhand was 120 mm (242% large excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Uttarakhand is below normal for week-1 and week-2.

- In view of dry weather, farmers are advised to irrigate vegetable crops on need basis.
- Use of organic mulch in crop field for moisture conservation.

Jharkhand

The amount of rainfall received over Jharkhand was 93 mm (15% excess) during 01 October - 18 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (18 - 24 November 2022 and 25 November - 01 December 2022) over Jharkhand is below normal for week-1 and week-2.

- Farmers wishing to cultivate chickpea (gram) crop, may sow after field preparation. The recommended varieties for Desi (indigenous) gram are *BG-3043*, *GNG-2207*, *KGP-59*, *Birsa chana-3* and Kabuli varieties are *HK-9431*, *Kak-2*.

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