



National Agromet Advisory Services Bulletin

Date of issue: 21 October 2022

based on

Extended Range Weather Forecast (ERFS)

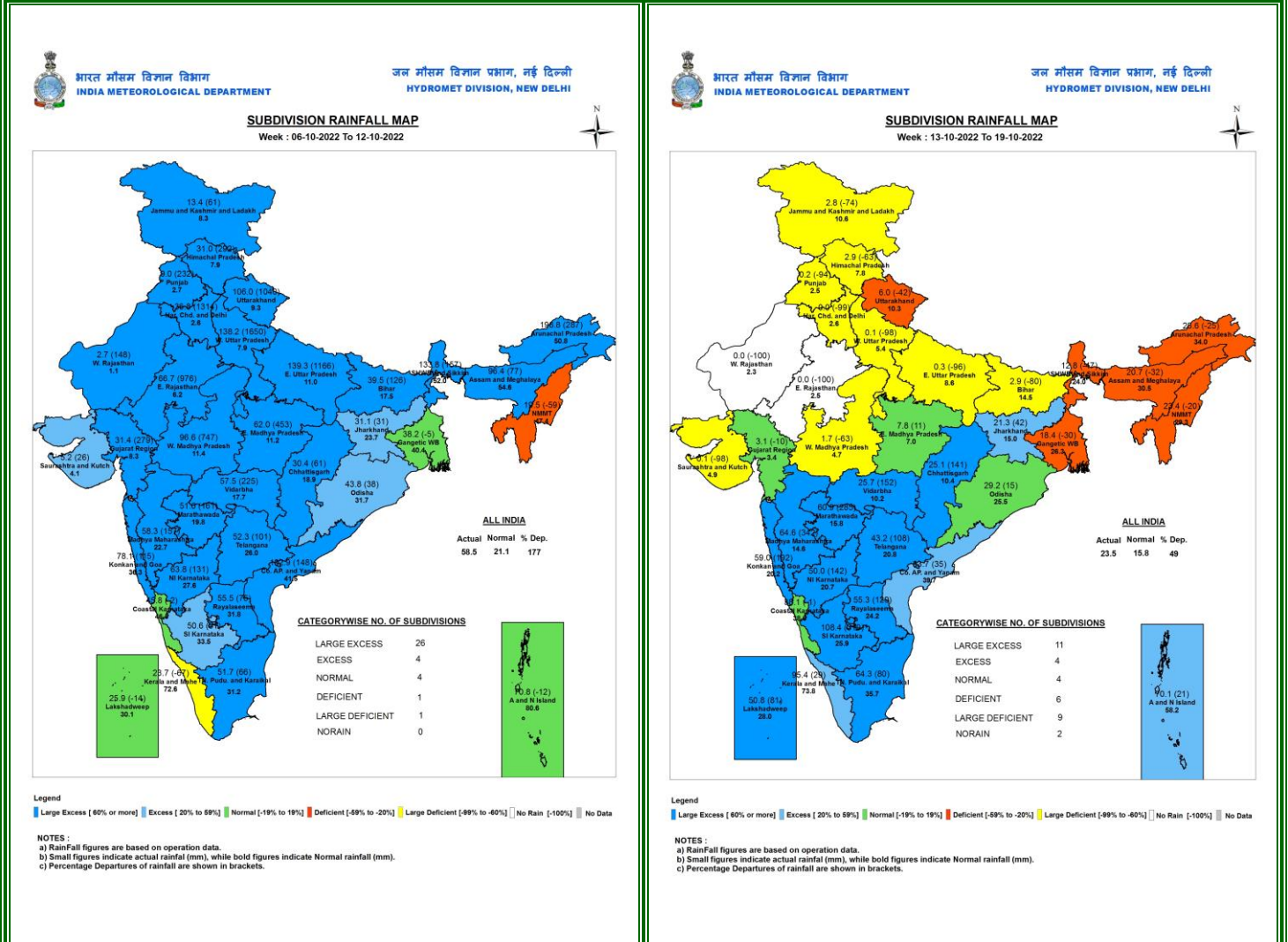
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Issued by

**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)

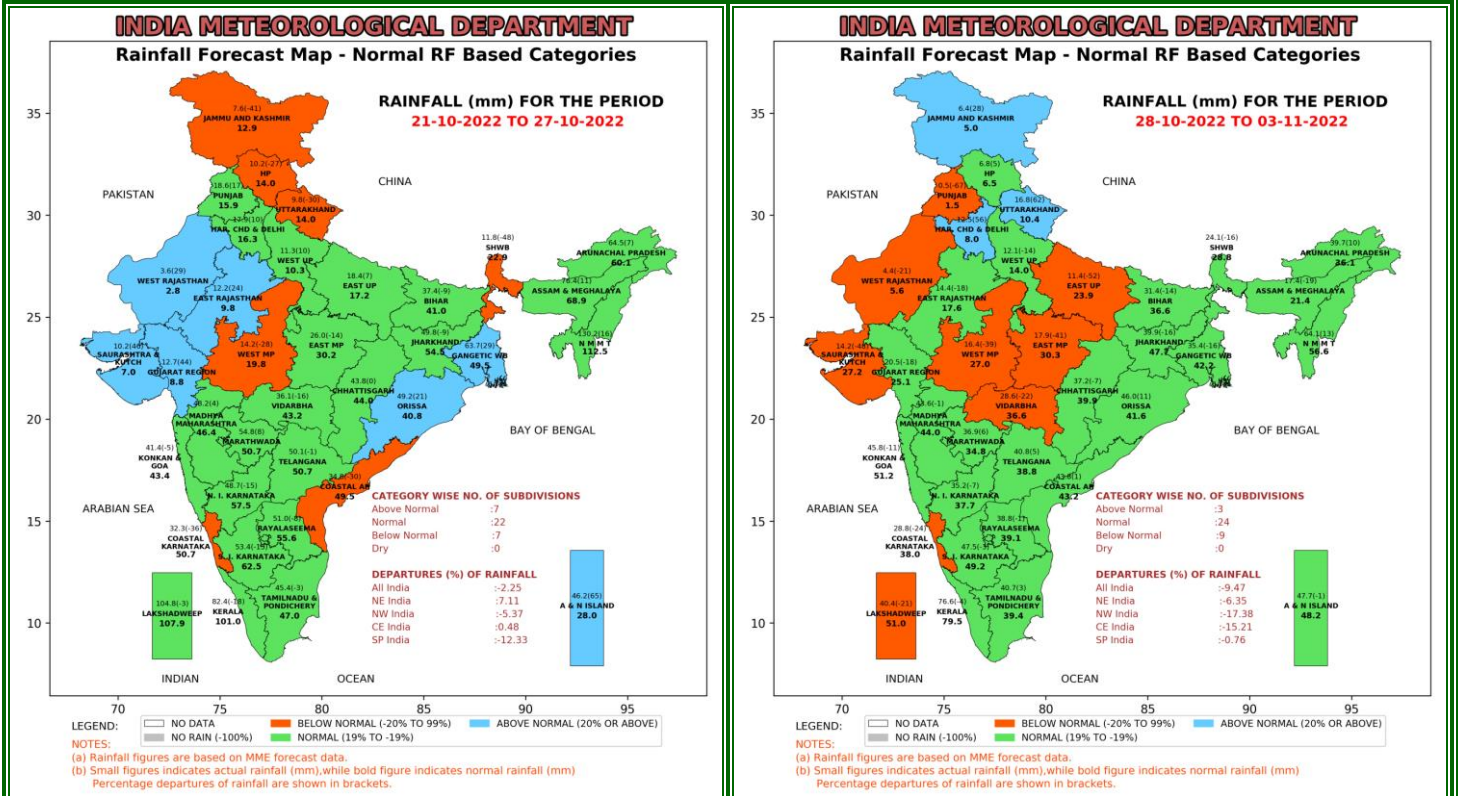
Realized Rainfall (06th to 19th October, 2022)



- Normal or above normal rainfall occurred in both the weeks in Gujarat Region, East Madhya Pradesh, Jharkhand, Odisha, Maharashtra, Chhattisgarh Andhra Pradesh & Yanam, Telangana, Karnataka, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Rajasthan, Uttar Pradesh, Bihar, West Bengal & Sikkim, Assam & Meghalaya, Arunachal Pradesh, Saurashtra & Kutch, West Madhya Pradesh and Kerala & Mahe.
- Below Normal rainfall occurred in both the weeks in Nagaland Manipur Mizoram & Tripura (NMMT).

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 19th October) (21st October to 03rd November, 2022)



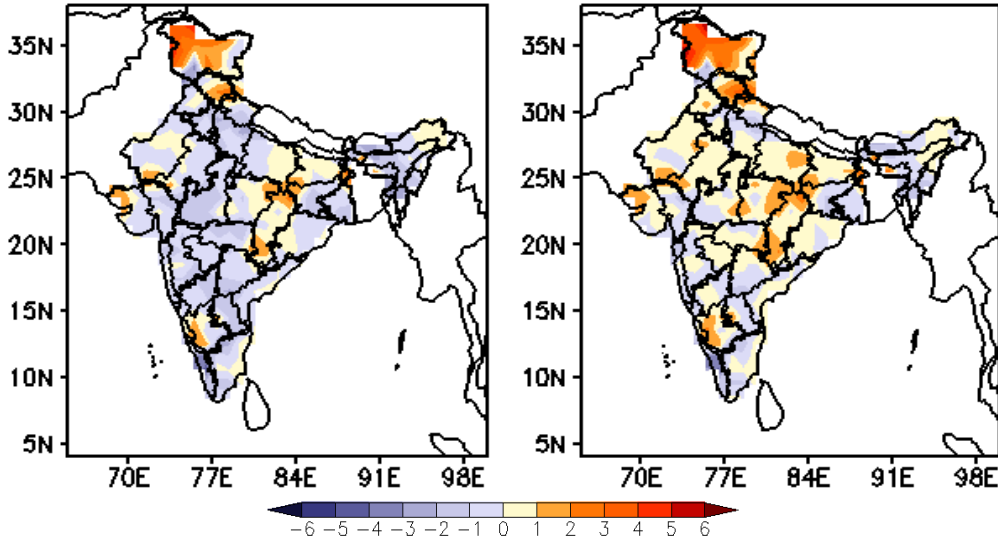
- **Week 1 (21.10.2022 to 27.10.2022):** Rainfall will be above normal over Odisha and parts of West Bengal.
- **Week 2 (28.10.2022 to 03.11.2022):** Rainfall will be near normal over most parts of the country.

**Maximum and Minimum temperature anomaly ($^{\circ}\text{C}$) forecast
for next 2 weeks (IC- 19th October)
(21st October to 3rd November, 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 21Oct-27Oct)

(Week2: 28Oct-03Nov)



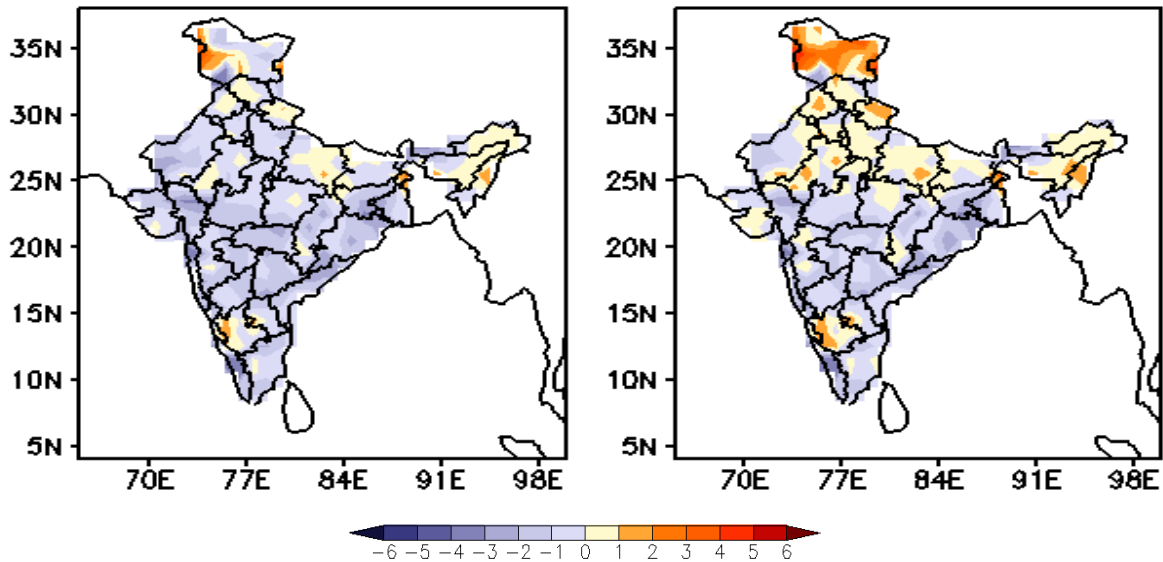
Maximum Temperature (Tmax)

- **Week 1 (21.10.2022 to 27.10.2022):** Tmax is likely to be above normal over some parts of northwest and Central India.
- **Week 2 (28.10.2022 to 03.11.2022):** Tmax is likely to be slightly above normal over northwest and central India and parts of northeast and peninsular India.

MME forecast Tmin anomaly (Deg C)

(Week1: 21Oct-27Oct)

(Week2: 28Oct-03Nov)



Minimum Temperature (Tmin)

- **Week 1 (21.10.2022 to 27.10.2022):** Tmin will be below normal over most parts of the country.
- **Week 2 (28.10.2022 to 03.11.2022):** Tmin will be below normal over most parts of peninsular India whereas it will be slightly above over northeast India and parts of Indo Gangetic Plains.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 149 mm (358% large excess) and over West Uttar Pradesh was 140 mm (598% large excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal over East Uttar Pradesh and West Uttar Pradesh for week-1; below normal over East Uttar Pradesh and normal over West Uttar Pradesh for week-2.

Western Uttar Pradesh

- Due to the sufficient soil moisture available in the fields, farmers are advised for sowing of gram with recommended varieties viz; *Avarodhi, KWR-108, Radhey, JG-16, KGD-1168* and *K-850*.
- Under prevailing weather condition, farmers are also advised for the sowing of potato with recommended varieties like *Kufri Jyoti, Kufri Bahar, Kufri Sheetman, Kufri Pukhraj* and *Kufri Chipsona-1*.

Bihar

The amount of rainfall received over Bihar was 80 mm (50% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal for week-1 and week-2.

- Under prevailing weather condition, sowing of sunflower is advised with recommended varieties viz., *Mordane, Surya, CO-1, Pairadevik* are composite varieties of sunflower and *BSH-1, KBSH-1, KBSH-44, MSFH-1, MSFH-8* and *MSFH-17* are hybrid varieties of sunflower are recommended for sowing in north Bihar.
- Farmers are advised to sow lentil with recommended varieties viz., *Mallika (K-75), Arun (PL77-12), KLS-218, HUL-57, PL-5* in north Bihar.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 115 mm (5% excess) and Sub Himalayan West Bengal was 203 mm (61% large excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is above normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and; normal over Gangetic West Bengal and Sub-Himalayan West Bengal for week-2.

- Due to forecast of medium to heavy rainfall in next weeks, it is advised to harvest the matured rice cultivars as early as possible and avoid water logging in the rice fields which are not yet harvested.
- To control brinjal fruit and shoot borer, it is advised to destroy infected fruit and shoot part and spray Spinosad or Cartap hydrochloride during early morning clear sky.

Jharkhand

The amount of rainfall received over Jharkhand was 92 mm (47% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal for week-1 and week-2.

- At present, sufficient moisture is present in the soil. Hence, farmers are advised to plough the fallow field and proceed for the cultivation of gram, lentil, linseed, mustard, potato, pea, wheat (rainfed) etc.
- Farmers having assured irrigation facility and wish to cultivate potato may start planting after land preparation with recommended varieties like *Kufri Ashoka*, *Kufri Pukhraj* and *Kufri Chandramukhi* etc.

Kerala

The amount of rainfall received over Kerala was 174 mm (-19% deficit) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal for week-1 and week-2.

- Due to high relative humidity, there is a chance of downy mildew incidence in cucurbitaceous vegetables. To control, it is advised to spray 2.5 g Mancozeb per one litre of water under the leaves.
- Due to prevailing raining weather condition, there is a chance for the development of stem bleeding disease in coconut palms. As a precaution, it is advised to apply 5 kg neem cake in the basins of the palms or apply 50 g each Trichoderma mixed along with organic manures in the basins.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 146 mm (44% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal for week-1 and week-2.

- Irrigation may be skipped since there is a normal rainfall forecast for the next two weeks.
- Prevailing weather condition are congenial for aphid and leaf hopper infestation in pulses. Farmers are advised to go for foliar spray Emamectin benzoate 5% SG 220 g/ha.

Maharashtra

154 mm (138% large excess) rainfall over Madhya Maharashtra; 132 mm (116% large excess) in Marathwada; 162 mm (62% large excess) in Konkan region and 87 mm (83% large excess) over Vidarbha was recorded during 01 October - 21 October 2022. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal over Madhya Maharashtra, Marathwada, Konkan and Vidarbha for week-1 and; normal over Konkan, Marathwada and Madhya Maharashtra and below normal over Vidarbha for week-2, respectively.

Vidarbha

- To reduce the fruit drop in mandarin orange (Ambia bahar), it is advised to spray of 1.5 g Gibberellic acid + 100 gm Carbendazim 50% WP per 100 liters of water during clear weather at 15 days interval.
- After current spell of rains, farmers are advised to complete the sowing of rainfed chickpea with recommended varieties like *Jaki 9218*, *Vijay* and *PDKV Kanchan*.

Marathwada

- Due to rainfall and cloudy weather condition, leaf spot, rhizome fly and rhizome rot is observed at many places in turmeric crop. For management, it is advised to spray of Carbendazim 50% @ 400 g or Mancozeb 75% @ 500 g or Copper oxychloride 50% @ 500 g per acre along with sticker during clear weather condition.
- For management of sigatoka disease in banana, it is advised to spray Metiram 55% + Pyraclostrobin 5% WG @ 10 g per 10 litres of water during clear weather condition.

Konkan

- Due to cloudy and humid weather condition, there is possibility of incidence of shoot borer on vegetative flush of mango. To protect, it is advised to spray Quinalphos 25% EC @ 20 ml per 10 litres of water during clear weather (no rainfall for atleast 5-6 hrs).
- Due to forecast light to moderate rainfall, farmers are advised to postpone the *rabi* vegetable nursery sowing of brinjal, chilli and tomato, leafy vegetable crops.

Madhya Maharashtra

- Due to cloudy weather condition, there may be a chance of leaf eating caterpillar infestation in *kharif* crops like sunflower, pigeon pea etc. To manage, it is advised to use pheromone traps @ 5/ha and also if required spray Profenofos/Quinalphos/Chlorpyrifos @ 20 ml per 10 litres of water

Odisha

The amount of rainfall received over Odisha was 124 mm (38% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (21-27 October 2022 and 28 October - 03 November 2022) over Odisha is above normal for week-1 and normal for week-2.

- Prevailing weather is optimum for land preparation and nursery sowing of cauliflower, cabbage, knolkhol, carrot and radish.
- Maintain about 5-10 cm standing water during panicle initiation to flowering stage and drain out excess water from paddy field.

Gujarat

The amount of rainfall received over Gujarat was 37 mm (90% large excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (21-

27 October 2022 and 28 October - 03 November 2022) over Gujarat is above normal for week-1 and normal for week-2.

- For the control of shoot and fruit borer in brinjal and tomato crops, it is advised that collect the infested fruits and shoots and buried into the soil. If insect population is above ETL, spraying of Chlorantraniliprole 18.5 % SC 3.0 ml or DDVP 7 ml/10 litres of water is advised.

Jammu

40 mm of rainfall (56% large excess) was received over Jammu during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) over Jammu is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, it is advised to transplant all cole crops (knolkhol, cabbage, cauliflower and broccoli) from nursery to field without any delay.

Assam

The amount of rainfall received over Assam during 01 October - 21 October 2022 was 153 mm (19% excess). The extended range weather forecast (rainfall) provided for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) over Assam is normal for week-1 and week-2.

- To control rice bug in *Sali* rice, it is advised to apply Malathion dust 5% @ 3 kg per bigha of land during fair weather condition.
- Sowing of late varieties of raddish is recommended from October to November. Farmers can collect late varieties of radish like *Japanese White*, *Jaunpuri* and *Bombay Red*.

Karnataka

Rainfall received during 01 October - 21 October 2022 over South Interior Karnataka was 217 mm (117% large excess), 152 mm (80% large excess) over North Interior Karnataka and 136 mm (-8% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) is normal over North Interior Karnataka, South Interior Karnataka and below normal over Coastal Karnataka for week-1 and; week-2.

South Interior Karnataka

- Under prevailing weather following crops with recommended varieties are advised:
Finger millet: (var. *Indaf-5,7,9*, *ML-365*, *KMR-301*), 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).
- To control leaf folder insect in pigeon pea, it is advised to spray Methomyl 40 SP @ 2 g/litre of water before flowering of crop.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 72 mm (47% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14-20 October 2022 and 21-27 October 2022) over Chhattisgarh is normal for week-1 and week-2.

- Due to the possibility of light rainfall in the next two weeks in Chhattisgarh plains, farmers are advised not to spray pesticides.
- Under prevailing weather condition, winter vegetables like cauliflower, cabbage and knolkhol early varieties are advised for nursery sowing.

Madhya Pradesh

The amount of rainfall received over East Madhya Pradesh was 87 mm (167% large excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) over Madhya Pradesh is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, field preparation for sowing of field pea, potato, mustard and lentil crops is advised.

Uttarakhand

The amount of rainfall received over Uttarakhand was 117 mm (308% excess) during 01 October - 21 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (21- 27 October 2022 and 28 October - 03 November 2022) over Uttarakhand is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, prepare nursery beds and sowing of onion is advised. Seed treatment should be done before sowing.
- Under prevailing weather condition, it is advised to keep continue the harvesting and threshing of *kharif* crops and properly dry the grains in the sunlight before storage.

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