



National Agromet Advisory Services Bulletin

Date of issue: 14 October 2022

based on

Extended Range Weather Forecast (ERFS)

Validity: 14 - 27 October 2022

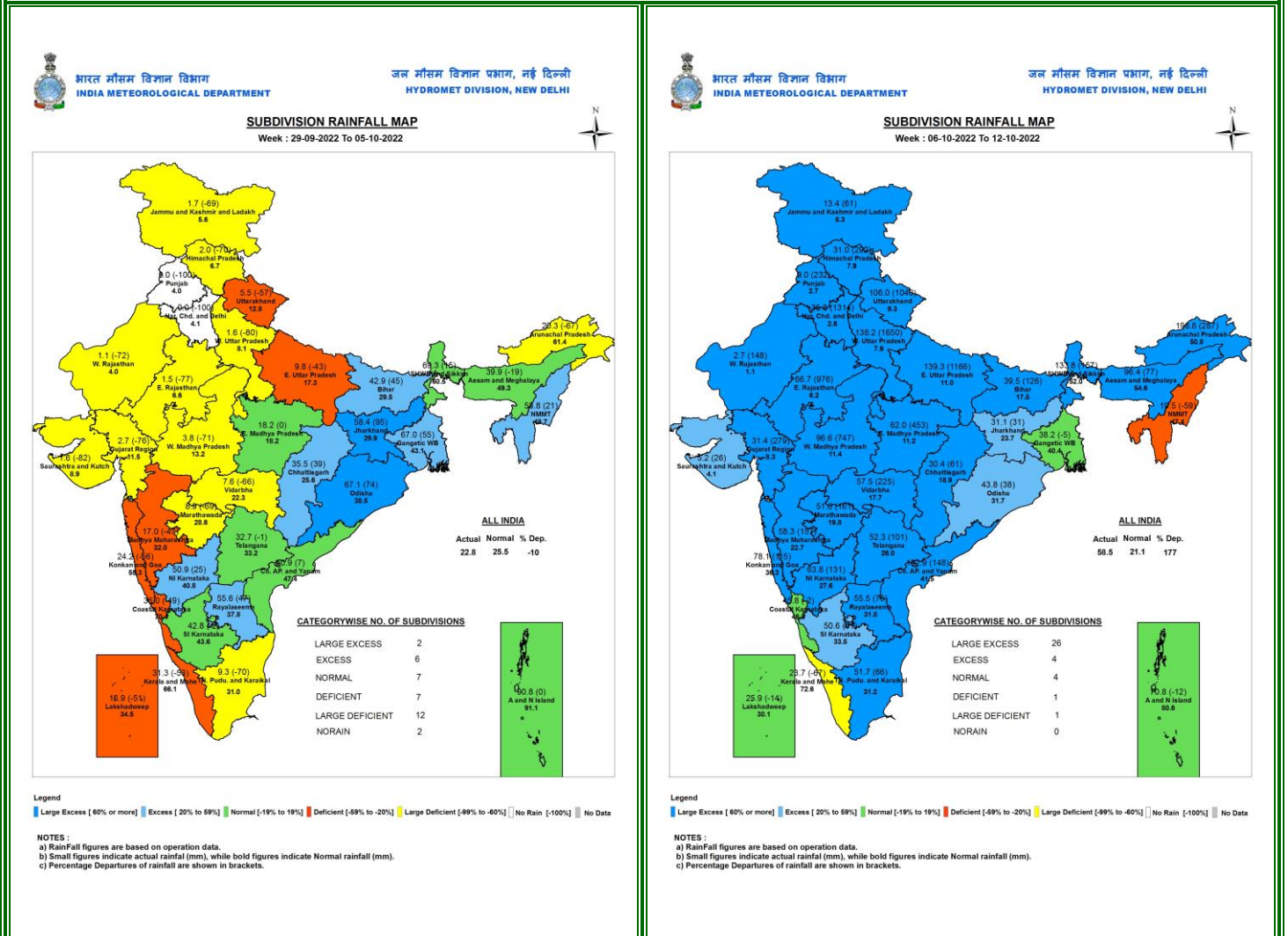
Issued by

**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

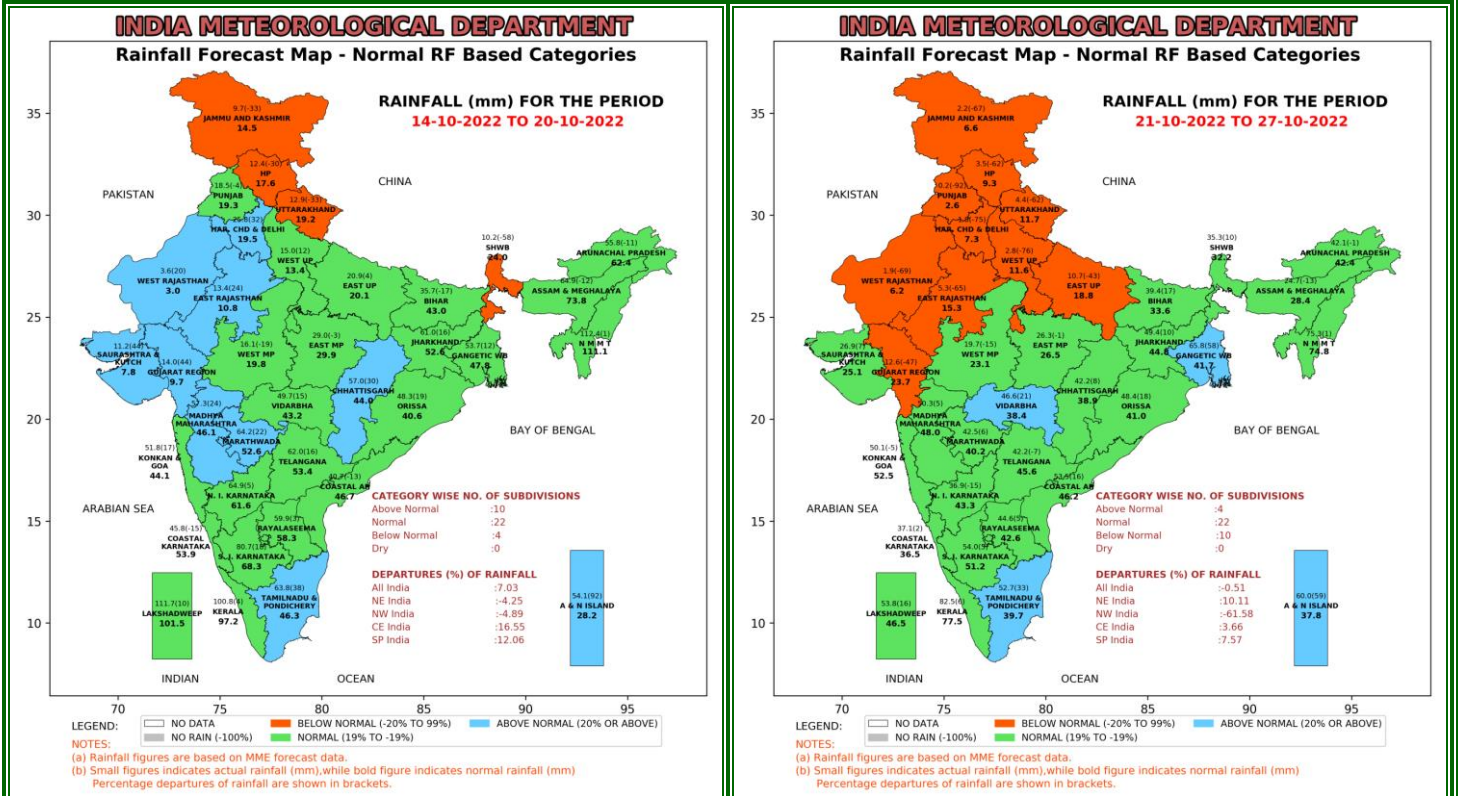
(29th September to 12th October, 2022)



- Normal or above normal rainfall occurred in both the weeks in Bihar, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, East Madhya Pradesh, Chhattisgarh, Odisha, Andhra Pradesh & Yanam, Telangana, Interior Karnataka 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, Uttar Pradesh, Arunachal Pradesh, Nagaland Manipur Mizoram & Tripura (NMMT), Rajasthan, West Madhya Pradesh, Gujarat, Maharashtra, Coastal Karnataka, Tamil Nadu Puducherry & Karaikal and Lakshadweep.
- Below Normal rainfall occurred in both the weeks in Kerala & Mahe.

Extended Range Forecast System

Rainfall forecast maps for the next 2 weeks (IC- 12th October) (14th to 27th October 2022)



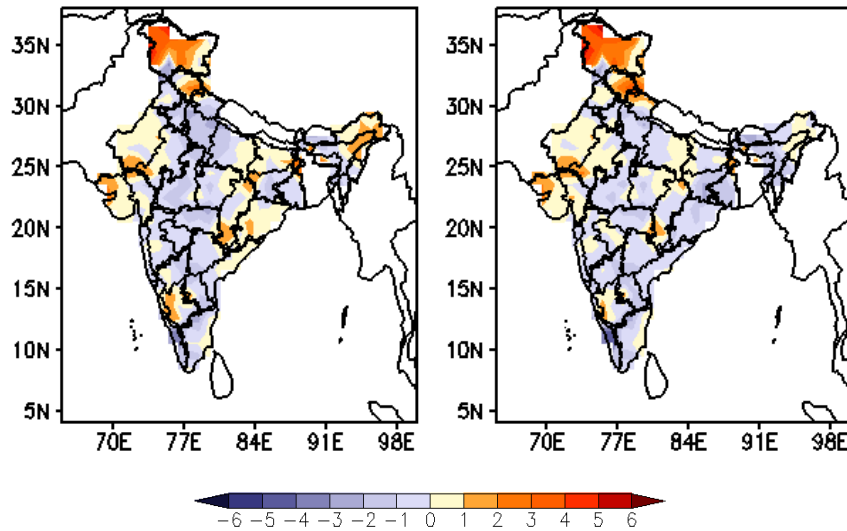
- Week 1 (14.10.2022 to 20.10.2022) and Week 2 (21.10.2022 to 27.10.2022):** There will be reduction in rainfall over most parts of Northwest India and normal to slightly above normal rainfall over south peninsula and adjoining central India.

**Maximum and Minimum temperature anomaly ($^{\circ}$ C) forecast
for next 2 weeks (IC- 12th October)
(14th to 27th October 2022)**

MME forecast Tmax anomaly (Deg C)

(Week1: 14Oct-20Oct)

(Week2: 21Oct-27Oct)



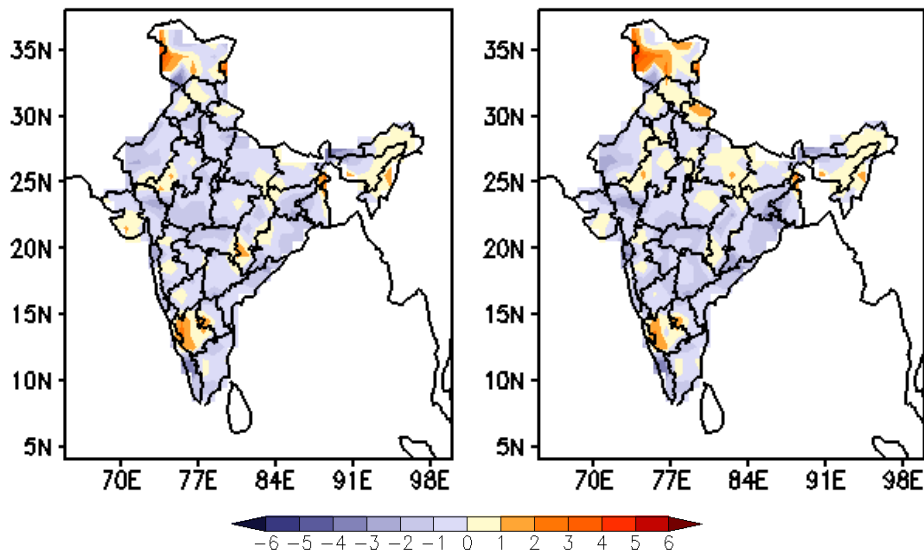
Maximum Temperature (Tmax)

- Week 1 (14.10.2022 to 20.10.2022) and Week 2 (21.10.2022 to 27.10.2022): Tmax is likely to be above normal over some parts of northwest India and parts of east coastal region.

MME forecast Tmin anomaly (Deg C)

(Week1: 14Oct-20Oct)

(Week2: 21Oct-27Oct)



Minimum Temperature (Tmin)

- Week 1 (14.10.2022 to 20.10.2022) and Week 2 (21.10.2022 to 27.10.2022): Tmin will be below normal over most parts of the country.

Agromet Advisories

Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 149 mm (522% large excess) and over West Uttar Pradesh was 140 mm (825% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 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

- As above normal rainfall is received during last two weeks, farmers are advised not to irrigate paddy fields.
- Under prevailing weather condition, farmers are advised to drain out excess rain water from vegetable fields and pick up matured fruits of standing vegetables crop like brinjal and chilies and also advised for nursery raising and transplanting of new seedlings.
- Under prevailing weather conditions sowing of mustard varieties are advised, with recommended varieties are *Varuna, Vaibhav, Vardhan, Kanti, Rohini* and *Peetambri* etc.

Eastern Uttar Pradesh

- Due to the rainfall in the previous week and forecast of normal rainfall in the next first week, farmers are advised to withhold irrigation in their crop fields
- Due to the rainfall received in the preceding week, farmers are advised to collect the toria seeds and keep ready for timely sowing.

Bihar

The amount of rainfall received over Bihar was 80 mm (108% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is normal for week-1 and week-2.

- Farmers are advised to ensure optimum soil moisture at the time of sowing of *rabi* crops for proper germination and crop establishment. If soil moisture is not sufficient, pre-sowing irrigation is suggested.
- Farmers are advised to sow mustard after 15 October. *Rajendra Sarso-1, 66-197-3, Rajendra Sarso-1, Y.S.H 401* and *Swarna varieties* of mustard are recommended for sowing in north Bihar region.

West Bengal

The amount of rainfall received over Gangetic West Bengal was 108 mm (47% excess) and Sub Himalayan West Bengal was 200 mm (100% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal during week-1 and above normal over Gangetic West Bengal and normal over Sub-

Himalayan West Bengal for week-2.

- Due to forecast of medium to heavy rainfall in second week, 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 chili leaf curl, it is advised to spray Imidacloprid @ 0.2ml/litre of water at the evening hour.

Jharkhand

The amount of rainfall received over Jharkhand was 81 mm (73% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is normal for week-1 and week-2.

- At present, sufficient moisture is present in the soil and 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.

Punjab

The amount of rainfall received over Punjab was 9 mm (90% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is above normal for week-1 and week-2.

- Farmers are advised to make arrangements for sowing of wheat varieties like *PBW 826*, *PBW 869*, *PBW 824*, *PBW 803*, *Sunehri (PBW 766)*, *PBW 1 Chapati*, *DBW 222*, *DBW 187*, *HD 3226*, *Unnat PBW 343*, *Unnat PBW 550*, *PBW 1 Zinc*, *PBW 725*, *PBW 677*, *HD 3086*, *WH 1105*, *HD 2967* and *durum wheat WHD 943* and *PDW 291* under irrigated conditions.

Kerala

The amount of rainfall received over Kerala was 56 mm (-57% deficit) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is normal for week-1 and week-2.

- Prevailing weather condition may favor the incidence of sucking pests in bitter melon. To control, it is advised to spray neem oil emulsion @ 20 ml neem oil 1 litres of water.
- To control coriander bug attack in tender nuts, farmers are advised to spray Spiromesifen 240 SC @ 8 ml diluted in 10 litres of water.

Tamil Nadu

The amount of rainfall received over Tamil Nadu was 62 mm (8% excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20

October 2022 and 21- 27 October 2022) is above normal for week-1 and week-2.

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

Maharashtra

79 mm (64% large excess) rainfall over Madhya Maharashtra; 62 mm (40% excess) in Marathwada; 107 mm (37% surplus) in Konkan region and 62 mm (71% large excess) over Vidarbha was recorded during 01 October - 13 October 2022. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is above normal over Madhya Maharashtra and Marathwada and over Konkan and Vidarbha are normal for week-1 and; normal over Konkan, Marathwada and Madhya Maharashtra and above normal over Vidarbha for week-2, respectively.

Vidarbha

- Due to continuous rainfall in past week and forecast of medium to heavy rainfall in next two weeks, farmers are advised to drain out excess water from the crop fields.
- 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

- As per forecast of heavy rainfall during next two weeks, it is advised to cover the harvested soybean crop with the help of polyethene/ tarpaulin or store the harvested crop in shed, precaution should be taken so that the harvested crop may not damage due to rainfall.
- Due to forecast of heavy rainfall in next two weeks, farmers are advised that after getting rainfall remove excess amount of water stagnated in standing crop fields by proper drainage, and also postponed spraying operations.

Konkan

- Due to prevailing rainfall, thunderstorm and gusty winds, if lodging of early varieties of finger millet crop is observed, it is advised to follow immediate picking of ear head and dry in the safe and protective shed.
- Due to rainfall forecast, it is advised to postpone the spraying operation for control of insect pest in Mango orchard.

Madhya Maharashtra

- Due to cloudy weather condition, there may be a chance of leaf eating caterpillar infestation in *kharif* crops like soybean, sunflower, pigeon pea, bajra 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 108 mm (66% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Odisha is normal for week-1 and week-2.

- Farmers are advised to maintain about 5-10 cm standing water during panicle initiation to flowering stage in paddy crop and drain out excess water from paddy field.
- Present high temperature and humidity condition, favors infestation of sucking pest in different crops. For management, it is advised to go for spraying of neem-based pesticide (Neem Oil 1500 ppm) @ 600 ml/acre by mixing it in 200 litres of water.
- Farmers are advised to grow short duration pre *rabi* crops like amaranthus, ragi, horse gram, green gram, black gram, cowpea, sweet potato and sesame in upland/medium lands utilizing the available soil moisture in the field.

Gujarat

The amount of rainfall received over Gujarat was 34 mm (113% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Gujarat is above normal for week-1 and below normal for week-2.

- To control sigatoka disease in banana, it is advised to spray Mancozeb 75 WP @ 27 g or Propiconazole 25 EC @ 5 ml in 10 litres of water at an interval of 15 days.

Jammu

15 mm of rainfall (12% excess) was received over Jammu during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Jammu is below normal for week-1 and week-2.

- The present weather condition is favorable for sheath blight and glume discolouration in late transplanted basmati rice crop. If observed, then it is advised to apply Carbendazim @ 0.1% and Mancozeb @ 0.25%, respectively.
- Farmers are advised to plough and plank the fields vacated after harvesting of maize crop to conserve soil moisture and keep them ready for succeeding *rabi* crops.

Assam

The amount of rainfall received over Assam during 01 October - 13 October 2022 was 148 mm (58% excess). The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Assam is normal for week-1 and week-2.

- For spring harvest, farmers can continue sowing of recommended varieties of pumpkin like *Arka Suryamukhi* (small sized) and *Arka Chandan* (medium sized) etc. in the nurseries from this week.
- Farmers may postpone the preparation of the main field for *rabi* maize due to high moisture

content in the field. Those who have already planting the seed in the main field are suggested to ensure the drainage system in the field so that excess rainfall water drains out from the field.

Karnataka

Rainfall received during 01 October - 13 October 2022 over South Interior Karnataka was 101 mm (45% excess), 107 mm (73% large excess) over North Interior Karnataka and 82 mm (-22% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) is normal over North Interior Karnataka, South Interior Karnataka and Coastal Karnataka for week-1 and; week-2.

South Interior Karnataka

- Wherever over population of crops exist, thinning operation is advised for better availability of scarce soil moisture to the reduced population of crop plants.
- 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*), Cowpea (*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.

North Interior Karnataka

- Farmers are advised to sow the crop in rows across the slope to facilitate better conservation of moisture in the soil.
- In case, the rainfall is more, it is advised to drained out excess water from crop fields, by making drainage furrows in the crops at regular intervals. The runoff water should be collected in the farm pond which can be utilizes for giving protective irrigation to the crops.
- As deficit to large deficit rainfall has been received compared to normal rainfall during the previous week, farmers are advised for top dressing of fertilizers to support flowering and good seed setting.

Himachal Pradesh

The amount of rainfall received over Himachal Pradesh was 33 mm (159% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Himachal Pradesh is normal for week-1 and; week-2.

- Under prevailing weather condition, farmers can go for sowing of gram in lower areas of the state. The varieties of gram recommended for the state are *Himachal Chana-1, Himachal Chana-2, GPF 2, Him Himachal Chana-1* and *HPG-17*.
- Sowing of root vegetables like radish (var. *Japanese White, Chinese Pink and Miro Early*),

turnip (*PTWG*), carrot (var. *Nantes*, *Chanteney*, *Pusa Yamdagni*) and leafy vegetable like spinach (var. *Pusa Harit*, *Pusa Bharti*) and Fenugreek (var. *IC-74*, *Palam Soumava* and *Pusa Kasuri*).

Andhra Pradesh

The amount of rainfall received over Coastal Andhra Pradesh was 143 mm (75% large excess) and over Rayalaseema was 105 mm (68% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14-20 October 2022 and 21-27 October 2022) normal over Coastal Andhra Pradesh and Rayalaseema for week-1 and week-2.

- Utilizing the available soil moisture, farmers are advised to take up sowings of Bengal gram in black soils of Ananthapuramu, Kurnool, Guntur, Kadapa and Nellore districts. The recommended high yielding varieties are *NbeG-3*, *NBeG-452*, *NbeG-119*, *JG-11*, *NbeG-49*, and *NbeG-47*.
- In Ananthapuramu, Kurnool districts, prevailing weather conditions are favorable for incidence of *Botrytis cinerea* in castor. For the control of disease, spraying of Carbendazim @ 1 g/litre or Thiophanate Methyl @ 1g/litre is recommended.

Chhattisgarh

The amount of rainfall received over Chhattisgarh was 55 mm (44% excess) during 01 October - 13 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 above normal for week-1 and normal for week-2.

- Due to the possibility of moderate to heavy 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 81 mm (224% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Madhya Pradesh is normal for week-1 and week-2.

- Farmers are advised not to harvest *kharif* season crops due to rainfall occurred in previous week.
- Tie the sugar cane plants together to prevent from lodging due to excess rainfall.
- Under humid and heavy rainfall conditions, citrus canker may occur in the citrus tree. For management, the affected leaves and twigs are destroyed by breaking, after that, spray of solution @ 180 g of Copper oxychloride and @ 6 g of Streptocycline in 60 litres of water is

advised.

Rajasthan

The amount of rainfall received over East Rajasthan was 67 mm (499% large excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over East Rajasthan is above normal for week-1 and below normal for week-2.

- Under prevailing weather condition, sowing of early mustard is advised with recommended varieties like *RGN-73*, *Bio-902 (Pusa Jai kisan)*, *Aashirwad*, *RH-9304 (Vasundhara)*, *RH-9802 (Swarn Jyoti)*, *RH-8812 (Laxmi)*, *DRMRIJ-31 (Giriraj)*.
- Farmers are advised for nursery sowing of late duration cauliflower with advanced varieties like *Pusa Snowball*, *K-1*, and *Hisar-1*.

Uttarakhand

The amount of rainfall received over Uttarakhand was 112 mm (487% excess) during 01 October - 13 October 2022. The extended range weather forecast (rainfall) provided for the next two weeks (14 - 20 October 2022 and 21- 27 October 2022) over Uttarakhand is below normal for week-1 and week-2.

- Under prevailing weather condition, sowing of onion nursery in polyhouse/polytunnel is advised. Seed treatment should be done before sowing.

Disclaimer:

The predictability of weather depends on many factors which are dynamic in nature. The success of Agromet advisories provided here depends on the accuracy of the weather forecast. In no event, India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) will be liable to the user or to any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information presented in this bulletin.