



# **National Agromet Advisory Services Bulletin**

**Date of issue: 25 November 2022**

based on

**Extended Range Weather Forecast (ERFS)**

**Validity: 25 November - 08 December 2022**

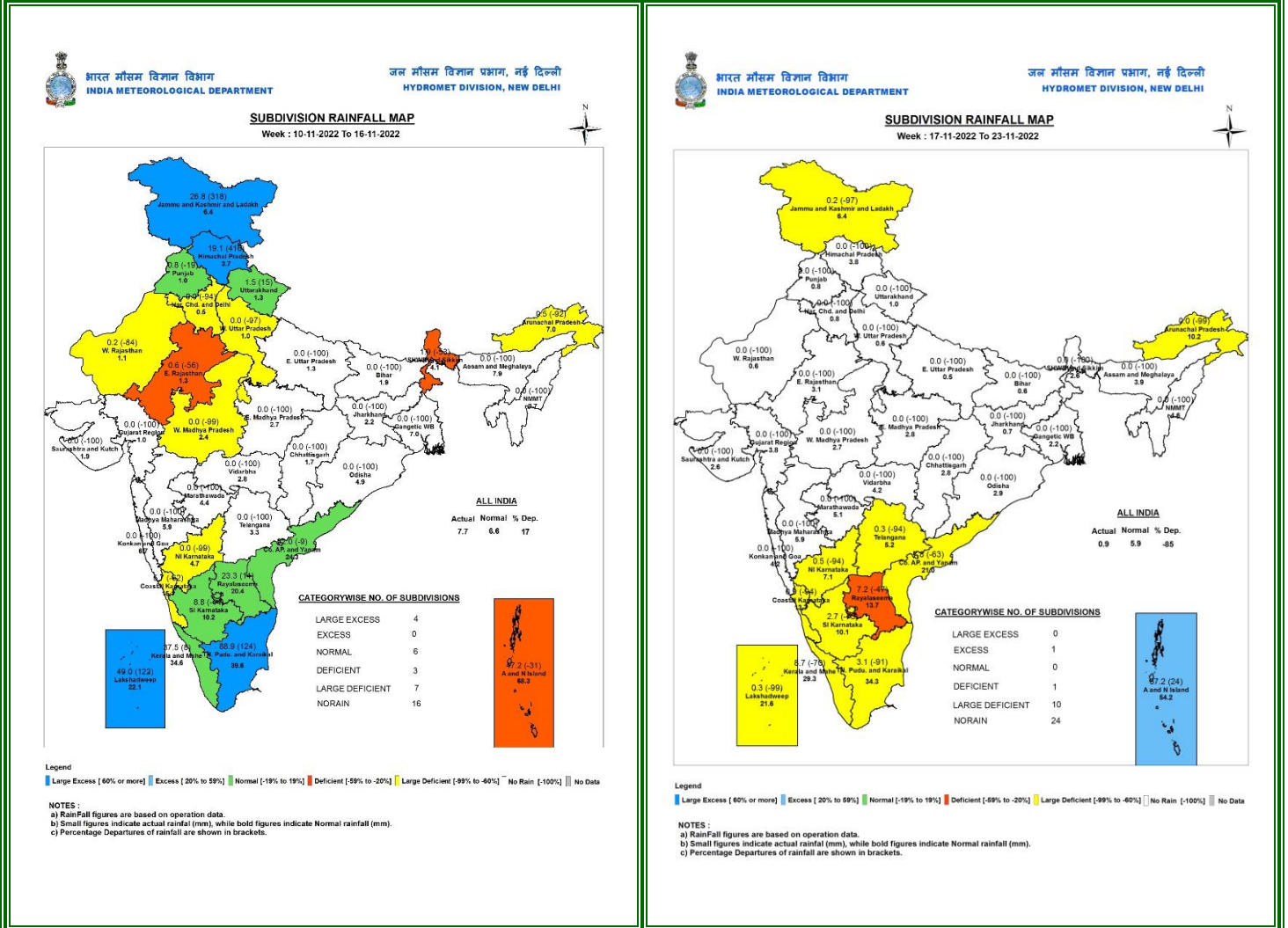
Issued by

**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

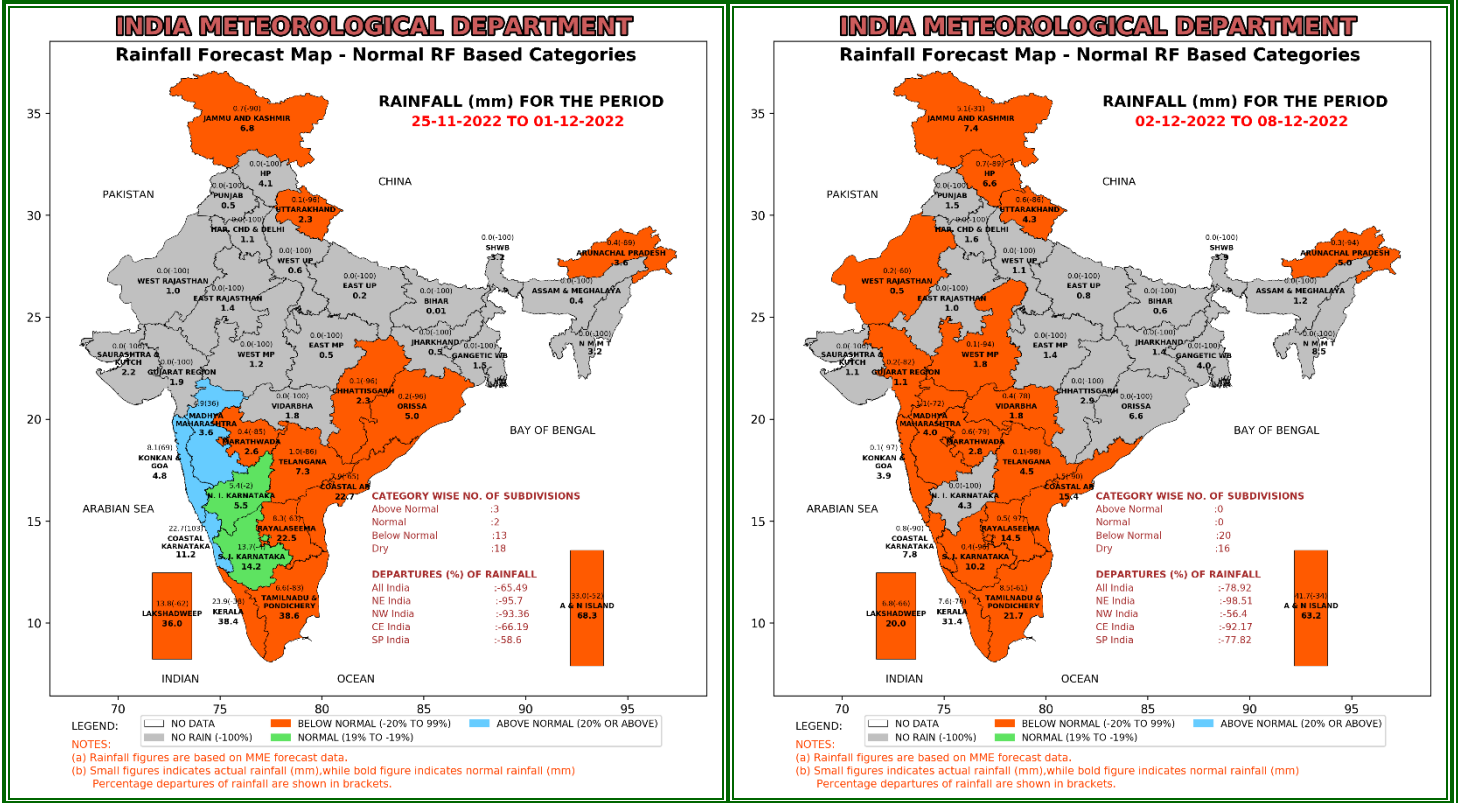
(10<sup>th</sup> November to 23<sup>rd</sup> November, 2022)



- Normal or above normal rainfall occurred in either of the two weeks in Jammu & Kashmir and Ladakh (UTs), Himachal Pradesh, Uttarakhand, Punjab, Andhra Pradesh & Yanam, Tamil Nadu Puducherry & Karaikal, South Interior Karnataka, Kerala & Mahe, Lakshadweep and Andaman & Nicobar Islands.
- 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- 23<sup>rd</sup> November) (25<sup>th</sup> November to 8<sup>th</sup> December, 2022)



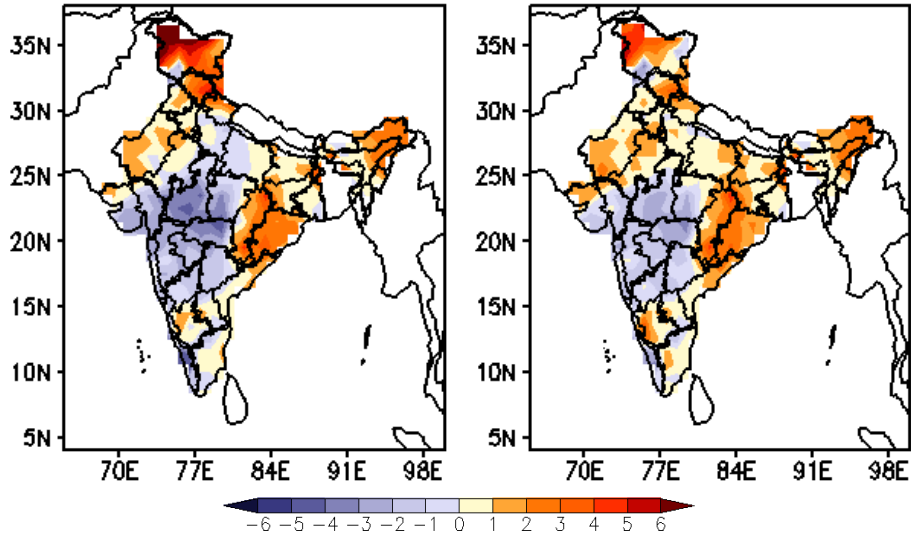
- Week 1 (25.11.2022 to 01.12.2022) and Week 2 (02.12.2022 to 08.12.2022):** Normal to slightly above normal rainfall is likely over Konkan & Goa, Madhya Maharashtra, North & South Interior Karnataka in week 1. Below normal or no rainfall is likely over the country in week 2.

**Maximum and Minimum temperature anomaly ( $^{\circ}\text{C}$ ) forecast  
for next 2 weeks (IC- 23<sup>rd</sup> November)  
(25<sup>th</sup> November to 8<sup>th</sup> December, 2022)**

**MME forecast Tmax anomaly (Deg C)**

(Week1: 25Nov-01Dec)

(Week2: 02Dec-08Dec)



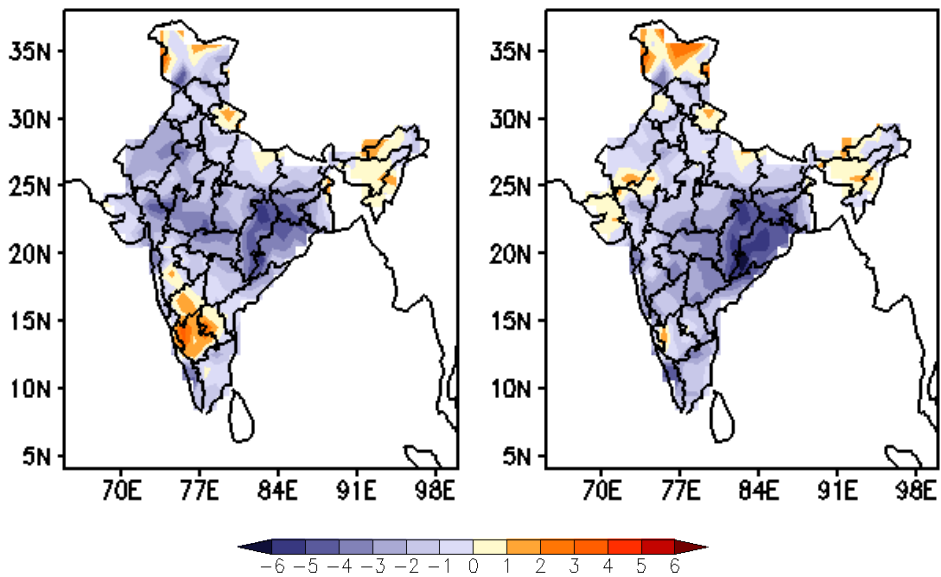
**Maximum Temperature (Tmax)**

- **Week 1 (25.11.2022 to 01.12.2022):** Tmax will be slightly above normal over East, Northeast and parts of Northwest India.
- **Week 2 (02.12.2022 to 08.12.2022):** Tmax will be slightly above normal over Indo Gangetic Plains, East, Northeast, north west and over East coast & adjoining regions.

**MME forecast Tmin anomaly (Deg C)**

(Week1: 25Nov-01Dec)

(Week2: 02Dec-08Dec)



**Minimum Temperature (Tmin)**

- **Week 1 (25.11.2022 to 01.12.2022) and Week 2 (02.12.2022 to 08.12.2022):** Tmin will be normal to below normal over most parts of the country.

## **Agromet Advisories**

### **Uttar Pradesh**

The amount of rainfall received over East Uttar Pradesh was 149 mm (315% large excess) and over West Uttar Pradesh was 140 mm (502% large excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is no rainfall over East Uttar Pradesh and West Uttar Pradesh for week-1 and week-2.

#### *Western Uttar Pradesh*

- Under irrigated condition, farmers are advised to sow long duration wheat varieties at such as PBW-343, UP-2338, DBW-187, DBW-222, WH-542, K-9107, K-9006, HP-1731, NW-1012, PBW-443, UP-2382, HD-2733, HD-2824, Hd-3226, K-307 and K-9423.
- Under prevailing weather conditions, it is advised to pick up mature fruits of standing vegetable crops like brinjal and chilies, etc. and transplants the new seedlings of winter vegetables.

### **Bihar**

The amount of rainfall received over Bihar was 81 mm (32% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is no rainfall for week-1 and week-2.

- Farmers are advised to finish the timely sown wheat crop till the 10 December. Recommended timely sown wheat varieties under irrigated condition are HD-2733, HD-2824, HD-2967, HUW-468, CBW-38, DBW-39, and DBW-187.
- Low temperature may adversely affect the milk production and performance of domestic animals. Farmers are advised to give protein enriched diet to the animals and do not keep animal in open at night.

### **Kerala**

The amount of rainfall received over Kerala was 344 mm (-23% deficit) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is below normal for week-1 and week-2.

- Due to high relative humidity, there is a chance of downy mildew attack in cucurbitaceous vegetables. To control, it is advised to spray 2.5 g Mancozeb per one litre of water under the leaves.
- 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 334 mm (3% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25

November - 01 December 2022 and 02 - 08 December 2022) is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for Tristeza wilt in acid lime. To prevent, it is advised for prophylactic spray of 5% NSK solution at 15 days interval.
- 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 (65% large excess) rainfall over Madhya Maharashtra; 132 mm (48% excess) in Marathwada; 169 mm (24% excess) in Konkan region and 87 mm (27% excess) over Vidarbha was recorded during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is above normal over Konkan and Madhya Maharashtra, below normal over Marathwada and no rainfall over Vidarbha for week-1 and below normal over Madhya Maharashtra, Marathwada, Konkan and Vidarbha for week-2, respectively.

#### *Vidarbha*

- Due to the continuous cold weather across the district during last 3 days, it is advised to apply need-based irrigation to protect the susceptible field crops (pigeon pea), orchards and vegetables from cold.
- Prevailing cloudy and low minimum temperature weather conditions are congenial for pod borer incidence in pigeon pea. To manage, it is advised to spray Emamectin benzoate 5% SG @ 3 g or Lambda-cyhalothrin 5% EC @ 10 ml or Chlorantraniliprole 18.5% SC @ 2.5 ml per 10 litres of water.

#### *Marathwada*

- For management of fall armyworm in maize crop, it is advised to spray of Emamectin Benzoate 5% @ 4 g or Spinetoram 11.7 SC @ 4 ml per 10 litres of water.
- Remove the water from custard apple orchard where rainfall was received. Harvesting of mature fruits in custard apple orchard should be done.

#### *Konkan*

- Due to dry weather condition, it is advised to provide irrigation to arecanut orchard at 7-8 days interval.
- There is possibility of incidence of midge fly and shoot borer on vegetative flush of mango. To protect, it is advised to spray Quinalphos 25%EC@20 ml per 10 litres of water.

### **Odisha**

The amount of rainfall received over Odisha was 125 mm (-6% deficit) during 01 October - 24

November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Odisha is below normal for week-1 and no rainfall for 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 (70% large excess) was received over Jammu during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Jammu is below normal for week-1 and week-2.

- To control cabbage butterfly and caterpillar in cole crops, it is advised to spray Imidacloprid @ 1ml/3 litres of water.
- 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) in 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 - 24 November 2022 was 221 mm (27% excess). The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Assam is no rainfall for week-1 and week-2.

- Current weather is favorable for sowing of carrot seeds in main field. Recommended varieties are *Nantes*, *Pusa Kesar* and *Chautney* etc.
- Farmers may continue to harvest the matured sali rice crop as dry weather is expected during next two weeks.

### **Karnataka**

Rainfall received during 01 October - 24 November 2022 over South Interior Karnataka was 250 mm (35% excess), 161 mm (29% excess) over North Interior Karnataka and 158 mm (-37% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is above normal over Coastal Karnataka and normal over North Interior Karnataka and South Interior Karnataka for week-1 and below normal over Coastal Karnataka, South Interior Karnataka and no rainfall over 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*), sunflower (*KBSH-1,41,42, 44 and 53*) and Cow pea (*KBC-1, TVX-944 and PKB-4* for vegetable purpose).
- Due to cloudy weather and forecast of normal rainfall, during next week, it is advised to postpone the harvesting of *kharif* crops.

### **Chhattisgarh**

The amount of rainfall received over Chhattisgarh was 72 mm (5% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Chhattisgarh is below normal for week-1 and no rainfall for week-2.

- Under prevailing weather condition, improved varieties of potato are advised to sow like, Kufri Khyati, Kufri Pukhraj, Kufri Surya etc..
- Due to decrease in temperature, 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 259 mm (-8% deficit) and over Rayalaseema was 200 mm (1% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is below normal over Coastal Andhra Pradesh and Rayalaseema for week-1 and week-2.

- Present weather conditions are favourable for collar rot incidence in chickpea grown in Ananthapuramu, Kurnool districts. To control collar rot, farmers are advised to drench soil with Carbendazim @ 1 g or Mancozeb @ 3 g /litre of water.

### **Gujarat**

The amount of rainfall received over Gujarat was 37 mm (21% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Gujarat is no rainfall for week-1 and below normal for week-2.

- To control the thrips in chili, it is advised to spray Profenofos @ 20 ml with 500 ml of 5% Neem seed extract or Neem seed oil @ 50 ml in 10 liters of water.

### **West Bengal**

The amount of rainfall received over Gangetic West Bengal was 119 mm (-23% deficit) and Sub Himalayan West Bengal was 209 mm (34% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) is no rainfall over Gangetic West Bengal and Sub-Himalayan



West Bengal during week-1 and 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 (231% large excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Uttarakhand is below normal for week-1 and week-2.

- Farmers are advised to irrigate the standing crops on need basis. Use organic mulch in crop field for moisture conservation.
- To protect the newly born calves from cold temperature, it is advised to feed them dry grasses in higher quantity with mixture to green fodder and give 40-50 gram minerals mixture as daily basis.

### **Jharkhand**

The amount of rainfall received over Jharkhand was 93 mm (14% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Jharkhand is no rainfall for week-1 and week-2.

- Farmers wish to cultivate onion may start raising of seedling with one of the recommended varieties like Pusa Red, Pusa Ratnar, N-53, Arka Niketan, Arka Kalyan, Agrifound Dark Red etc.
- Low temperature favors the attack of aphids in vegetables and field crops. At initial stage, the aphids may be controlled by spraying of neem based insecticide. If the insect population is above ETL, spray insecticide like Pronephros @ 1 ml per litre of water.

### **Himachal Pradesh**

The amount of rainfall received over Himachal Pradesh was 58 mm (47% excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Himachal Pradesh is no rainfall for week-1 and below normal for week-2.

- *Dhingri* can be sown in closed room, maintain temperature of 25-28°C and relative humidity of 80-85 % for good crop.
- Nursery raising is advised for onion varieties *viz.*, Nasik Red, Patna Red, AFDR, AFLR, Palam Lohit, Brown Spanish as well as hybrids in low and mid hills areas of the state.

### **Punjab**

The amount of rainfall received over Punjab was 11 mm (-9% deficit) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Punjab is no rainfall for week-1 and week-2.

- Farmers are advised to sow wheat varieties *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 Zn, PBW 725, PBW 677, HD 3086, WH 1105* and *HD 2967* under irrigated conditions.
- It is best time for sowing of spinach, fenugreek, coriander, radish, turnip and main season varieties of pea i.e. *Punjab 89* and *Mithi Phali*.

### **Rajasthan**

The amount of rainfall received over East Rajasthan was 69 mm (218% large excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over East Rajasthan is no rainfall for week-1 and week-2.

- Current weather is suitable for oat. Recommended improve varieties of oat are *Kent, HFO-114* and *OS-6*.

### **Hisar**

The amount of rainfall received over Hisar was 37 mm (209% large excess) during 01 October - 24 November 2022. The extended range weather forecast (rainfall) provided for the next two weeks (25 November - 01 December 2022 and 02 - 08 December 2022) over Hisar is no rainfall for week-1 and week-2.

- There is a possibility of fall in night temperature. Farmers are advised to keep the animal under clean sheds to control fly and mosquito.

### **Disclaimer:**

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