



# **National Agromet Advisory Services Bulletin**

## Date of issue: 23 December 2022

based on

## **Extended Range Weather Forecast (ERFS)**

Validity: 23 December 2022 - 05 January 2023

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)



- Normal or above normal rainfall occurred in both the weeks in Kerala & Mahe,
- Normal or above normal rainfall occurred in either of the two weeks in Gujarat, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra, Marathwada, Karnataka, Andhra Pradesh & Yanam, Telangana, Tamil Nadu Puducherry & Karaikal, Lakshadweep and Andaman & Nicobar Islands.
- Below Normal rainfall/no rain occurred in both the weeks over rest of the States & UTs.



- Week 1(23.12.2022 to 29.12.2022): Rainfall is likely to be above normal over southernmost parts of peninsula.
- Week 2 (30.12.2022 to 05.01.2023): No significant rainfall activity is over the country.



below normal over Northwest India, Odisha, Chhattisgarh and Jharkhand.

#### Strategic Agricultural Planning based on rainfall till 05 January 2023

## **Agromet Advisories**

### Tamil Nadu

The amount of rainfall received over Tamil Nadu was 426 mm (-1% deficit) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is above normal for week-1 and; below normal for week-2.

- Since rainfall is expected in the next week, farmers are advised to prepare basins for horticultural crops and tree crops and also advised to apply coir compost to conserve moisture in banana, pepper, clove, nutmeg, cinnamon and coconut.
- Prevailing weather conditions are congenial for fall army worm 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.

### Kerala

The amount of rainfall received over Kerala was 471 mm (-3% deficit) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is above normal for week-1 and; below normal for week-2.

- Under prevailing weather condition, incidence of fungal diseases may be observed in young budded plants of rubber. In order to control its spread, it is advised to apply Indofil M-45
  @ 4 g per litre at 1 inch lower and upper sides of tapping panels.
- For the management of coffee berry borer, farmers are advised to spray Quinalphos (0.05%) 400 ml in 200 liters of water.

## Maharashtra

161 mm (57% excess) rainfall over Madhya Maharashtra; 134 mm (40% excess) in Marathwada; 172 mm (22% excess) in Konkan region and 88 mm (18% excess) over Vidarbha was recorded during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is above normal over Konkan and Madhya Maharashtra, normal is over Marathwada and no rainfall over Vidarbha for week-1 and; normal is over Konkan and above normal over Madhya Maharashtra, Marathwada and Vidarbha for week-2, respectively.

## Vidarbha

• Prevailing intermittent cloudy weather condition favors the infestation of pod borer in early sown chickpea. To control, it is advised to install 5 *Pheromone* traps per hectare or one spray of 5 % NSKE and ETL based spray of Quinalphos 25 EC 20 ml or Emamectin benzoate 5 SG @ 3 g or Chlorantraniliprole 18.5 SC @ 2.5 ml per 10 litres of water.

• Under prevailing weather condition, transplanting of 4-6 weeks old seedlings of tomato, brinjal, cabbage and cauliflower and seed sowing of coriander, spinach, fenugreek, radish, carrot, dolichols bean and ivy gourd is advised during this period.

## Marathwada

- Due to cloudy weather condition, sucking pest may be observed in vegetable crops like chilli, brinjal, ladies finger etc. For management, it is advised to spray Pyriproxyfen 5% + Fenpropathrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liters of water.
- For the management of pod borer in late sown pigeon pea, it is advised to spray 5% NSKE or Quinalphos 25% @ 20 ml or Emamectin Benzoate 5% 4.5 g per 10 litres of water.

## Konkan

- Due to forecast of drop in minimum temperature, it is advised to spray 1% Potassium nitrate @10 g per litres of water, to encourage the flowering in mango.
- Due to forecast of high rainfall and cloudy weather condition, there is possibility for anthracnose disease on mango flush and inflorescence. To manage, it is advised to spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 litres of water along with insecticides given as per blossom protection schedule.

## Madhya Maharashtra

- Spraying of 1% KNO<sub>3</sub> is advised under moisture stress condition on the *rabi* crops.
- Under prevailing weather condition, mulching is advised to reduce the evaporation from soil in orchard crops.

## Uttar Pradesh

The amount of rainfall received over East Uttar Pradesh was 149 mm (279% large excess) and over West Uttar Pradesh was 140 mm (422% large excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is below normal over East Uttar Pradesh and West Uttar Pradesh for week-1 and; normal over East Uttar Pradesh and below normal over West Uttar Pradesh week-2.

## Western Uttar Pradesh

- Light irrigation is advised to provide in pulses and vegetable crops for protection from fog and frost.
- Because of no rainfall forecast in coming weeks, farmers are advised to sow late sown wheat varieties under assured irrigation. Recommended varieties for late sowing are *HUW234*, *K*-7903, *UP*-2338, *K*-9162, *K*-9533, *HD*-2643, *HP*-1744, *NW*-1014, *K*-8020, *UP*2425, *NW*-2036, *DBW*-14, *K*-9423, *PBW*-524, *NW*-1076 and *HUW*-510.

## Bihar

The amount of rainfall received over Bihar was 82 mm (27% excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29

December 2022 and 30 December 2022 - 05 January 2023) is below normal for week-1 and above normal for week-2.

- Under prevailing weather condition, sowing of late varieties of wheat crop such as *PBW-373*, *HD-2285*, *HW-2045*, *HUW-234*, *WR-544*, *DBW-14*, *HD-2643*, *HD-2967*, *NW-2036* are advised for North Bihar region.
- Low temperature may adversely affect the milk production and performance of domestic animals. Therefore, farmers are advised to give protein enriched diet to the animals and do not keep animal in open at night.

## Odisha

The amount of rainfall received over Odisha was 126 mm (-10% deficit) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Odisha is below normal for week-1 and; above normal for week-2.

- Due to low temperature and foggy condition there is a chance of powdery mildew disease in black gram and green gram. To control, it is advised to spray sulphur 80% WP @800 g/acre or Hexaconazole 5% E.C @ 300 ml/acre.
- Provide light irrigation to standing vegetables and crops during morning hours to prevent damage from fog, low temperature and moisture stress and cover the recently planted cole crops with paper pockets during night time to avoid low temperature.

## Jammu

106 mm of rainfall (4% excess) was received over Jammu during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Jammu is below normal for week-1 and; week-2.

- As there are no chances of rainfall in coming weeks, farmers are advised to provide irrigation in mustard, if the crop is 35-40 days old.
- Under prevailing weather condition, farmers may continue sowing of late sown (up to 25th Dec) wheat varieties: *PBW-752*, *DBW-173*, *WH-1124*, *DBW-90*, *HD-3059* with the increase in seed rate.

#### Assam

The amount of rainfall received over Assam during 01 October - 22 December 2022 was 222 mm (19% excess). The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Assam is below normal for week-1 and; above normal for week-2.

• It is advised to cover the bunches of bananas with white polythene bags to protect against low temperature stress.

• Most of the regions of the state is experiencing rainfall deficit condition since last couple of weeks. Farmers are advised to provide irrigation in the rabi vegetable crops like cauliflower, cabbage, brocolli, knolkhol, brinjal, radish, beans, leafy vegetables etc.

### Karnataka

Rainfall received during 01 October - 22 December 2022 over South Interior Karnataka was 298 mm (52% excess), 169 mm (30% excess) over North Interior Karnataka and 196 mm (-25% deficit) over Coastal Karnataka. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is above 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

- To protect the pulse grains from storage pests it is advised to apply oils of Castor/ linseed/honge/neem oil @ 3-5 ml per kg of grains.
- To protect animals from a sudden drop in temperature, keep the animals in a covered shed/area during the night. The bedding/hay in the animal sheds must be kept dry and changed/aired every day.

## Chhattisgarh

The amount of rainfall received over Chhattisgarh was 74 mm (normal rainfall) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Chhattisgarh is no rainfall for week-1 and; above normal for week-2.

• Under prevailing weather condition, sowing of improved varieties of sunflower like *Modern, TNAU, SUF-7, BSH-1, KBSH-1, DRSH-1, Jwalamukhi, Surya* etc is advised.

### Anantapur

The amount of rainfall received over Coastal Andhra Pradesh was 338 mm (6% excess) and over Rayalaseema was 282 mm (21% excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is above normal over Coastal Andhra Pradesh and Rayalaseema for week-1 and; below normal over Coastal Andhra Pradesh and Rayalaseema for week-2.

• Present weather conditions are favorable 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 (14% excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Gujarat is no rainfall for week-1 and; below normal for week-2.

• For the management of wilt disease in gram, it is advised to apply 750 g *Trichoderma* with 15 kg FYM per one acre.

### West Bengal

The amount of rainfall received over Gangetic West Bengal was 109 mm (-34% deficit) and Sub Himalayan West Bengal was 202 mm (24% excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) is below normal over Gangetic West Bengal and Sub-Himalayan West Bengal during week-1 and; above normal over Gangetic West Bengal and below normal over Sub-Himalayan West Bengal for week-2.

• Deficient rainfall pattern is observed in the southern districts of West Bengal. Farmers are advised not to go for the sowing of Boro rice.

## Jharkhand

The amount of rainfall received over Jharkhand was 120 mm (166% large excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Jharkhand is normal for week-1 and; above normal for week-2.

• For the management of leaf curling, it is advised to spray Caldan 50 SP @ 1 g per liter of water.

### Haryana

The amount of rainfall received over Hisar was 37 mm (122% large excess) during 01 October - 22 December 2022. The extended range weather forecast (rainfall) provided for the next two weeks (23 - 29 December 2022 and 30 December 2022 - 05 January 2023) over Hisar is no rainfall for week-1 and below normal for week-2.

• Due to possibility of dry and clear weather condition, farmers are advised to apply irrigation in existing vegetable crops and monitor for insect-pests and also adopt weed control on time.

### Disclaimer:

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