



# National Agromet Advisory Service Bulletin Based on Extended Range Weather Forecast (ERFS)

**Validity: 08 to 21 May 2020** 

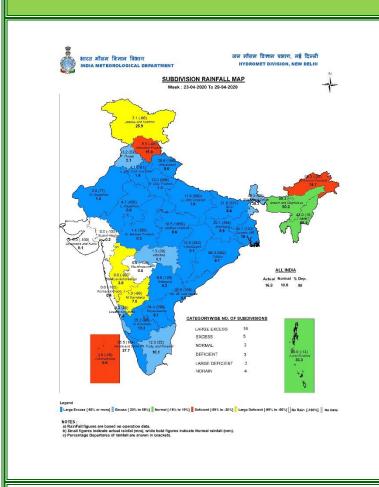
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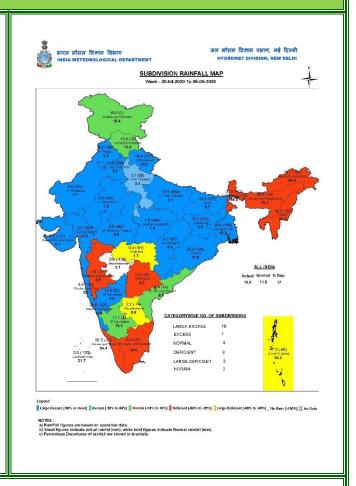
Issued by
Indian Council of Agricultural Research (ICAR)
All India Coordinated Research Project on Agro Meteorology (AICRPAM),
Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.

Earth System Science Organization India Meteorological Department

### Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)





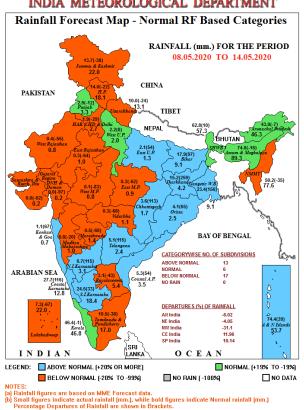


- Normal or above normal rainfall occurred in both the weeks in Uttarakhand, Punjab, Haryana Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Bihar, Jharkhand, Gangetic West Bengal, Madhya Pradesh, Chhattisgarh, Odisha, Coastal Andhra Pradesh & Yanam, Coastal Karnataka and South Interior Karnataka.
- Normal or above normal rainfall occurred in either of the weeks in Jammu & Kashmir, Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura (NMMT), Gujarat, Konkan & Goa, Vidarbha, Telangana, Rayalaseema, North Interior Karnataka, Kerala & Mahe, Tamil Nadu Puducherry & Karaikal and Andaman & Nicobar Islands.
- Below normal rainfall/no rain occurred over rest of the country.

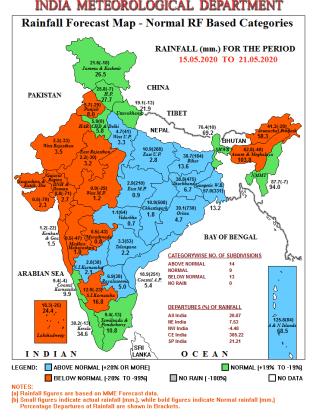
#### **Extended Range Forecast System**

Rainfall forecast maps for the next 2 weeks (IC - 06 May) (8<sup>th</sup> to 21<sup>st</sup> May, 2020)





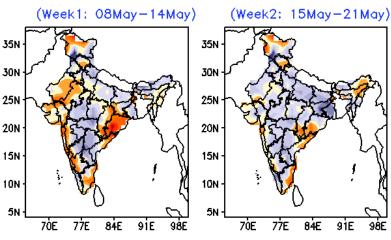
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



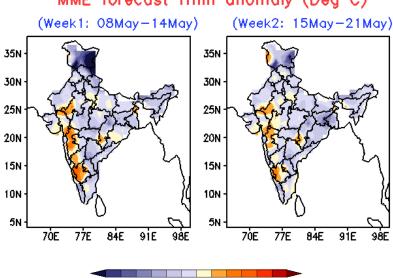
• Week-1 (08.05.2020 to 14.05.2020) and Week-2 (15.05.2020 to 21.05.2020): Over the Bay of Bengal and adjoining met subdivisions over eastern and north-eastern parts of India rainfall conditions will be active. Western Disturbance associated rainfall will increase in week 2 over Indo-Gangetic region and also the rainfall over north-eastern states will increase in week 2.

# Maximum and Minimum temperature anomaly $(^{O}C)$ forecast for next 2 weeks (IC - 06 May) $(8^{th}$ to $21^{st}$ May, 2020)

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



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



#### **Maximum Temperature (Tmax)**

- Week-1 (08.05.2020 to 14.05.2020): Above normal Tmax over Northwest India, western coastal region and parts of some eastern coastal states in week 1. Over the Central region, Tmax will be below normal.
- Week-2 (15.05.2020 to 21.05.2020): The positive anomaly of Tmax is likely to decrease in week 2 compared to week 1 with only parts of eastern coastal region and western coast where it will be positive, whereas over major part of India it will be negative.

#### **Minimum Temperature (Tmin)**

Week-1 (08.05.2020 to 14.05.2020) and Week-2 (15.05.2020 to 21.05.2020): Tmin anomaly is mostly negative over India except some isolated regions over western parts of India during week 1 and week 2.

## Strategic Agricultural Planning based on rainfall during next two weeks till 21 May 2020 Agromet Advisories

#### Kerala

Amount of rainfall received over Kerala is 189.8 mm (9% excess) during the period of 01 March - 07 May 2020. The extended range weather forecast for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) is normal for week-1 and week-2.

- It is advised to prepare fields for ginger and turmeric planting. To protect the ginger crop from foot rot disease, soak the suckers in 0.3% Mancozeb/Pseudomonas solution for 30 minutes.
- Present weather condition is ideal to prepare planting material for black pepper. Apply mulch and protect the plants from the scorching sun.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 43.3mm (-44% deficit) during the period of 01 March - 07 May 2020. The extended range weather forecast for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) is below normal for week-1 and normal for week-2.

- Present prevailing weather condition is favorable for Tristeza virus disease in citrus. It is advised to spray Methyl demeton 25 EC or Monocrotophos @ 1 ml/litre water to control the aphids which spread the disease and use pre-immunized acid lime seedlings for planting.
- For protecting banana from high wind speed, it is advised to mount the soil around the base of the tree and give support by using Casuarinas poles.
- Due to rainy weather condition, farmers are advised for summer ploughing to conserve rain water.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 18.1mm (30% excess), over Marathwada is 22.4mm (67% large excess), Vidharbha is 35.8 mm (92% large excess) and Konkan region 7.3 mm (41% excess) during 01 March – 07 May 2020. The extended range weather forecast for next two weeks (08 - 14 May 2020 and 15 – 21 May 2020) over Konkan is above normal and over Madhya Maharashtra, Marathwada and Vidharbhaarebelownormalforweek-1 and below normal over Marathwada, Madhya Maharashtra and Konkan and over Vidharbha is above normal for week-2.

#### Marathwada

- Due to increase in temperature, the quality of mango fruit may be affected. It is advised to harvest mature mango fruits early in the morning.
- It is also advised to provide shade and mulching in the newly planted or small plants of banana. Irrigate the banana orchard during early morning, at evening or night.

#### Konkan

• To prevent incidence of post-harvest diseases in mango fruits, it is advised to keep the fruits in

warm water (~ 52°C) for 10 minutes and then keep for ripening.

• Due to increase in temperature and decrease in humidity, it is advised to provide irrigation to coconut orchard at 5-6 days interval and use straw mulch to reduce evaporation losses.

#### Vidharbha

- Under the prevailing hot weather condition, it is advised to irrigate summer crops like groundnut, sunflower, sesame, green gram and vegetables at 6 8 days interval in the early morning or late afternoon.
- Deep summer ploughing of harvested fields is advised to expose the hibernating insects, larvae/pupa to sun and predator birds.
- Due to windy weather conditions, is advised to provide mechanical support to papaya, banana bunches, young fruit trees to avoid damage and lodging.

#### Madhya Maharashtra

- For the management of tikka disease in groundnut, spray of Mancozeb 2.5 g or Carbendazim 1 g mixed in 1 litre of water.
- It is advised to keep animals in shade and cover cows and buffaloes with wet gunny bags to protect from high temperature and heat stroke.

#### **Himachal Pradesh**

Amount of rainfall received over Himachal Pradesh is 231.5 mm (21% excess) during 01 March – 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 – 21 May 2020) on rainfall over Himachal Pradesh is below normal for week-1 and normal for week-2.

- Under prevailing weather condition, sowing of seeds of babul, subabul, khair, amla and prosopis in polythene bags for raising nursery is advised.
- It is advised to maintain room temperature of 18-22°C and relative humidity around 85% for successful cultivation of mushrooms.
- It is the optimum time for nursery sowing of tomato, brinjal, chillies and capsicum crops in poly house.

#### Hisar

Amount of rainfall received over Hisar is 89.1 mm (284% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Hisar is above normal for week-1 and normal for week-2.

- Farmers are advised to prepare the field and procure the seed for sowing of cotton crop.
- Due to increase in day temperature, farmers are advised to apply light irrigation in planted vegetable crops and fruits plants as per requirement and harvest the mature vegetables at morning and evening

hours.

#### Karnataka

Rainfall received during 01 March – 07 May 2020 over South Interior Karnataka is 86.8 mm (23% excess) and North Interior Karnataka is 58.5 mm (52% large excess). The extended range weather forecast for next two weeks (08 - 14 May 2020 and 15 – 21 May 2020) over South Interior Karnataka and North Interior Karnataka is above normal for week-1 and below normal over South Interior Karnataka and above normal over North Interior Karnataka for week-2.

#### North Interior Karnataka

- It is advised to go for ploughing of fields and incorporation of crop residue to facilitate *in situ* conservation of water during the pre-monsoon rains and also conservation of soil.
- It is advised to complete the heaping of fodder and straw as early as possible and cover it properly.

#### South Interior Karnataka

- Farmers may do summer ploughing for solarization which destroy eggs and pupating stages of insects and weed seeds underneath the surface.
- Intercultural operation and mulching are advised in the standing crops as a contingency measure.

#### Assam

Amount of rainfall received over Assam is 232.5 mm (-32% deficit) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Assam is normal for week-1 and below normal for week-2.

- Under prevailing weather condition, there is a chance of stem borer attack in maize. To control, spraying of Fenitrothion 50EC @ 5ml/litre of water is advised.
- To control rodent attack during the maturity period in boro rice, it is advised to prepare dry poison baits by mixing Atta/wheat bran/ maize crush 80g, jaggery 10g, dry fish 5g & Zinc Phosphide 5g and apply alongside the alleys in crop field.

#### **Uttar Pradesh**

Rainfall received during 01 March – 07 May 2020 over East Uttar Pradesh is 78.2 mm (383% large excess) and West Uttar Pradesh is 68.4 mm (302% large excess). The extended range weather forecast for next two weeks (08 - 14 May 2020 and 15 – 21 May 2020) over East Uttar Pradesh is above normal and West Uttar Pradesh is normal for week-1 and above normal over East Uttar Pradesh and West Uttar Pradesh for week-2.

- Due to rainy weather condition, it is advised to skip the irrigation in Zaid crops
- Intercultural operation is advised to check the evapotranspiration losses and proper utilization of nutrient to the crop.

#### Punjab

Amount of rainfall received over Punjab is 110.1 mm (171% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Punjab is normal for week-1 and above normal for week-2.

- Due to rainy weather condition, farmers are advised to complete the harvesting and threshing of wheat and store the produce at safe place.
- To protect the tomato crop from early blight disease, it is advised to spray the crop with Indofil M-45 @ 600 g/acre in 200 litre of water.

#### Rajasthan

Amount of rainfall received over Rajasthan is 34.0 mm (301% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Rajasthan is below normal for week-1 and week-2.

- It is advised to apply irrigation in fodder crops like maize, sorghum, bajra and cluster bean.
- It is advised not to provide the irrigation in pomegranate and guava at flowering stage to prevent flower drops.

#### Jammu

Amount of rainfall received over Jammu is 290.7 mm (6% excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Jammu is below normal for week-1 and normal for week-2.

- Under clear weather condition, farmers are advised to harvest and thresh the mature crop of wheat and store it after proper drying.
- It is the optimum time for sowing of vegetable crops like okra and French bean. Recommended varieties for okra viz. Varsha Uphar, Hissar Unnat and A-4 and French bean recommended varieties viz. Arka Komal and Pusa Parvati.

#### Bihar

Amount of rainfall received over Bihar is 128.7 mm (289% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Monitoring is advised for infestation of yellow vein mosaic virus disease in green gram and black gram. If infestation is found, spraying of Imidacloprid17.8 SL@0.3ml/litre of water is advised and also uproot and destroy affected plants before spraying.
- Land preparation is advised for turmeric and ginger. Application of 25-30 tonnes of cow dung per hectare is advised during land preparation.

#### Gujarat

Amount of rainfall received over Gujarat is 4.3 mm (94% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Gujarat is below normal for week-1 and week-2.

- Due to high temperature, there is a chance of mite infestation in lemon orchard. To control, spray of Propargite 57 % EC 10 ml/10 litre water is advised.
- It is advised to monitor drumstick crop for infestation of bud worm & leaf caterpillar. Spray of 500 ml of 5% Neem seed extract or neem seed oil (Azadirachtin 1500 ppm) 50 ml with 10 litres of water.

#### West Bengal

Amount of rainfall received over West Bengal is 183.6 mm (85% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over West Bengal is above normal for week-1 and week-2.

• Under prevailing weather condition, there is a chance of attack of white fly. To control, application of Imidachloprid @ 5 ml/10 litre of water at an interval of 15 days is advised.

#### **Odisha**

Amount of rainfall received over Odisha is 199.1 mm (190% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Odisha is above normal for week-1 and week-2.

- Prevailing weather condition is optimum for planting of yam with recommended local varieties viz. Shreekirti, Shreerupa, Hatikhoj, Shreeshilpi, Small yam varieties viz. Shreelata, Shreekala and white yam varieties viz. Shreesubhra, Shreepriya, Shreedhanya.
- To control leaf blight in tomato, spray of 2 g Chloromethanol or 3g Copper oxychloride in 1litre of water is advised.

#### **Jharkhand**

Amount of rainfall received over Jharkhand is 172.8 mm (302% large excess) during 01 March - 07 May 2020. The extended range weather forecast provided for next two weeks (08 - 14 May 2020 and 15 - 21 May 2020) on rainfall over Jharkhand is above normal for week-1 and week-2.

- Under the prevailing weather condition, there is a chance of attack of gundhi bugs in summer rice. To control, dusting of the insecticides like Chlorpyriphos dust or Quinolphos dust or Methyl Parathion dust @ 10 kg per acre during evening is advised.
- Under the prevailing weather condition, farmers are advised to go for planting of ginger crop with recommended varieties like Bardhwan, Suruchi, Nadiya, Suprabha.

advisories provida (IMD) and India	redictability of weather depend here depends on the accumantation of Agricultural Real, consequential, special or sis bulletin.	racy of the forecasts. esearch (ICAR) be liab	In no event will India ole to the user or to an	Meteorological Departs y third party for any di	ment irect,