



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

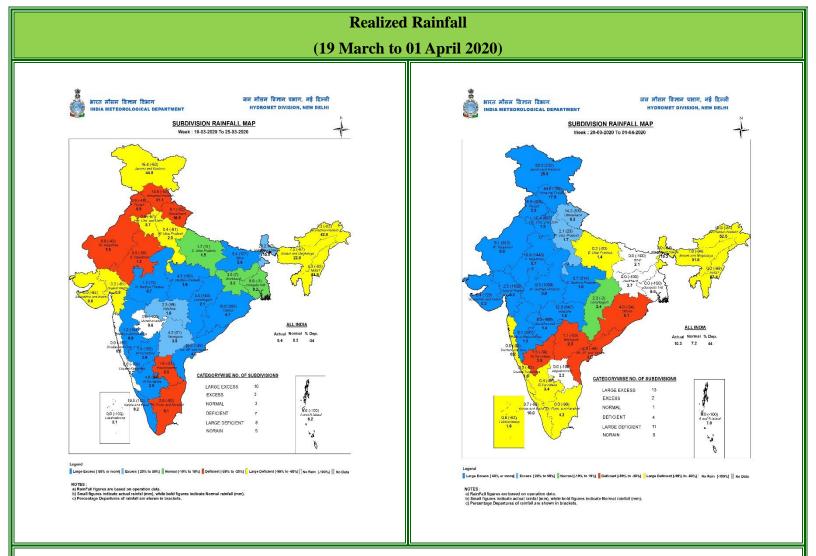
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## Issued by Indian Council of Agricultural Research (ICAR) All India Coordinated Research Project on Agrometeorology (AICRPAM), ICAR-Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad

Earth System Science Organization India Meteorological Department

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



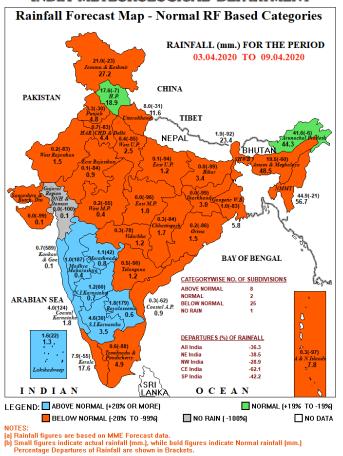
- Normal or above normal rainfall occurred in both the weeks in East Madhya Pradesh, West Madhya Pradesh, Chhattisgarh, Madhya Maharashtra and Vidarbha.
- Normal or above normal rainfall occurred in either of the weeks in Jammu & Kashmir, Himachal Pradesh, Uttarakhand, West Uttar Pradesh, East Uttar Pradesh, Punjab, Haryana Chandigarh & Delhi, East Rajasthan, West Rajasthan, Gujarat Region, Saurashtra & Kutch, Marathwada, Bihar, Jharkhand, West Bengal & Sikkim, Odisha, Telangana, Coastal Andhra Pradesh & Yanam, Kerala & Mahe, North Interior Karnataka and South Interior Karnataka.
- Below normal rainfall/no rain occurred over rest of the country.

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

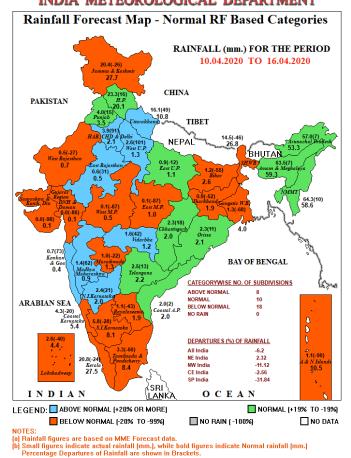
#### Rainfall forecast maps for the next 2 weeks (IC – 01 April)

(03 - 16 April, 2020)

#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



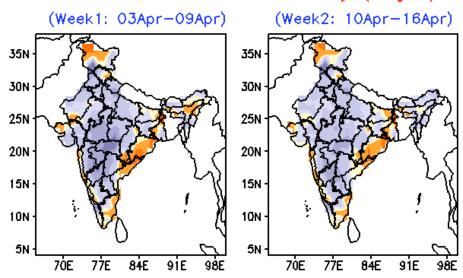
#### भारत मौसम विज्ञान विभाग INDIA METEOROLOGICAL DEPARTMENT



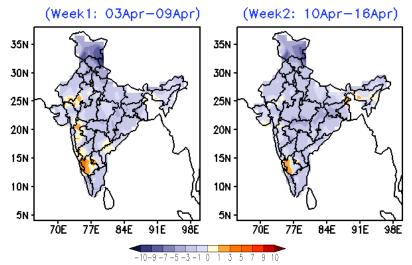
- Week-1 (03.04.2020 to 09.04.2020): Western Disturbance associated rainfall likely over extreme north India. Some parts of northeast India are also likely to get rainfall. Rainfall over isolated region of Kerala is likely.
- Week-2 (10.04.2020 to 16.04.2020): Western Disturbance associated rainfall over extreme north India is likely to extend towards Uttarakhand and adjoining region during week-2. Rainfall over northeast India is likely to increase during this period compared to week-1. Isolated regions over Kerala and adjoining south peninsula will also get rainfall during the period.

#### Maximum and Minimum temperature anomaly (<sup>O</sup>C) forecast for next 2 weeks (IC – 01 April) (03 - 16 April, 2020)

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



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



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

• Week-1 (03.04.2020 to 09.04.2020) and Week 2 (10.04.2020 to 16.04.2020): Tmax anomaly is mostly negative over India except parts of extreme north India, eastern coastal regions and parts of western coastal region.

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

• Week-1 (03.04.2020 to 09.04.2020) and Week 2 (10.04.2020 to 16.04.2020): Except some isolated regions over western parts of India and Indo-Gangetic region, Tmin anomalies will be negative during the period.

## Strategic Agricultural Planning based on rainfall during next two weeks till 16 April 2020 Agromet Advisories

#### Kerala

Amount of rainfall received over Kerala is 43.4 mm (19% excess) during the period of 01 March - 02 April 2020. The extended range weather forecast for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) is below normal for week-1 and week-2.

- Due to increase in air temperature, it is advised to bury fresh and dried coconut husk around the palm to conserve soil moisture.
- Under the current weather condition, there is a chance of Rhizome weevil attack in banana. As a precaution, application of neemcake @ 1 kg/plant at the time of planting is advised.
- 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 4.3 mm (-81% large deficit) during the period of 01 March - 02 April 2020. The extended range weather forecast for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) is below normal for week-1 and week-2.

- Prevailing weather condition is favorable for black headed caterpillar incidence in coconut. To control, it is advised to spray the under surface of the fronds with Dichlorovos 100EC 0.02%, Malathion 50 EC 0.05% @ 1ml/litre.
- Prevailing weather condition is favorable for canker disease incidence in citrus. To control, spray Streptomycin sulphate 500-1000 ppm or Phytomycin 2500 ppm or Copper oxychloride 0.2% at fortnight interval.
- Prevailing weather condition is favorable for die back in chilli. To control, three sprayings with Wettable Sulphur or Copper Oxy Chloride 0.25% or Zineb 0.15% is advised.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 8.8 mm (175% large excess), over Marathwada is 12.8 mm (104% large excess), Vidharbha is 28.2 mm (158% large excess) and Konkan region 0.0 mm (-99% large deficit) during 01 March – 02 April 2020. The extended range weather forecast for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) over Marathwada, Konkan and Madhya Maharashtra are above normal and over Vidharbha is below normal for week-1 and below normal over Marathwada and above normal over Konkan, Vidharbha and Madhya Maharashtra for week-2.

#### Marathwada

• Due to rainfall and cloudy weather condition, there is a chance of infestation of disease in tomato and chilli. For management, it is advised to spray of Mancozeb75 WP @ 25 g/10 litre of water.

• It is advised to harvest *rabi* crops and collect and cover it by plastic paper and store at safe place.

#### Konkan

- Due to variation in temperature and humidity, there is a chance of pre-mature fruit drop in mango. To minimize the pre-mature fruit drop, it is advised to provide 150 to 200 litre of water per tree after fruit setting at 15 days interval for 3 to 4 times and use straw mulch to reduce evaporation losses.
- To reduce the heat stress in farm animals, it is advised to provide roughage mix with solution of 1% jaggery and 0.5% salt separately.

#### Vidharbha

- Light earthing up is advised at peg initiation stage in groundnut for effective peg penetration and facilitation for increased pod development.
- Deep summer ploughing of harvested fields is advised to expose the hibernating insects and larvae/pupa to sun and predator birds.

#### Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 171.2 mm (51% excess) during 01 March – 02 April 2020. The extended range weather forecast provided for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) on rainfall over Himachal Pradesh is normal for week-1 and week-2.

- Farmers are advised to monitor the yellow powder/stripes on the leaves of susceptible varieties and spray the recommended fungicides during calm and clear weather as soon as the symptoms appear.
- Due to prevailing weather condition, there is a chance of aphid infestation in mustard crop. Farmers are advised to spray Rogor or Quinalphos @ 2.0 ml/litre of water.

#### Hisar

Amount of rainfall received over Hisar is 69.8 mm (459% large excess) during 01 March – 02 April 2020. The extended range weather forecast provided for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) on rainfall over Hisar is below normal for week-1 and above normal week-2.

- Farmers were advised to withhold irrigation in existing vegetable crops. Keep monitoring timely sown onion crop against attack of thrips.
- Farmers are advised to monitor yellow rust in wheat. If observed, application of 200 ml Tilt 25% EC (Propiconazole 25% EC) in 200 litre water per acre is advised.
- Due to variable weather conditions, there is a chance of pod borer infestation in the chickpea.
   Farmers are advised to spray Carbaril 50 W.P. or 200 ml Monocrotophas 36 S.L /100 litre water/acre.

#### Karnataka

Rainfall received during 01 March - 02 April 2020 over South Interior Karnataka is 8.5 mm (-34%)

deficit) and North Interior Karnataka is 11.8 mm (44% excess). The extended range weather forecast for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) over South Interior Karnataka and North Interior Karnataka are 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

- Under prevailing dry and hot weather condition, farmers are advised to complete the harvesting, threshing and drying of matured *rabi* crops as early as possible.
- It is advised to plough the soil and incorporate the crop residue in the soil to facilitate *in situ* conservation of water during the pre-monsoon rains and conservation of soil.

#### Assam

Amount of rainfall received over Assam is 29.0 mm (-67% large deficit) during 01 March – 02 April 2020. The extended range weather forecast provided for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) on rainfall over Assam is below normal for week-1 and normal week-2.

- Due to favorable weather condition, leaf spot is being observed in green gram and black gram crop.
   If the disease spread is above ETL, spray of Carbendazim 0.05% @1.5g/litre of water at 12-15 days interval on clear weather is advised.
- Because of no rainfall condition, farmers are advised to avoid use of agrochemicals during dry period in vegetable crop. Economic use of water at critical stages of the crop is recommended.

#### Uttar Pradesh

Rainfall received during 01 March – 02 April 2020 over East Uttar Pradesh is 38.3 mm (432% large excess) and West Uttar Pradesh is 48.1 mm (396% large excess). The extended range weather forecast for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) over East Uttar Pradesh and West Uttar Pradesh is below normal for week-1 and normal over East Uttar Pradesh and above normal over West Uttar Pradesh for week-2.

- Due to high temperature, there are chances of pod borer and semi looper in pigeon pea and in chickpea. Hence, farmers are advised to spray 1.5 litre Monocrotophas or Quinalphos 20% EC 2.0 litre/ha or Malathion 50 % EC 2.0 litre/ha with 500 to 600 litre of water on clear sky.
- It is advised to follow a regular vaccination programme in cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

#### Punjab

Amount of rainfall received over Punjab is 85.5 mm (252% large excess) during 01 March – 02 April 2020. The extended range weather forecast provided for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) on rainfall over Punjab is below normal for week-1 and normal for week-2.

• Due to cloudy weather condition, there is a chance of fruit borer attack in tomato crop. It is advised to spray 30 ml of Fame 480 SL or 60 ml Coragen 18.5 or 200 ml Indoxacarb 14.5 SC in 100 litre of

water per acre.

• For management of citrus psylla, spray of 200 ml Crocodile/Confidor 17.8 SL (Imidacloprid) or 160 g Actara/Dotara (Thiamethoxam) by mixing in 500 litre of water per acre is advised.

#### Rajasthan

Amount of rainfall received over Rajasthan is 21.6 mm (483% large excess) during 01 March – 02 April 2020. The extended range weather forecast provided for next two weeks (03 - 09 April 2020 and 10 - 16 April 2020) on rainfall over Rajasthan is below normal for week-1 and above normal week-2.

- Harvest the wheat crop and keep it at open field for the sun drying.
- Under the prevailing weather condition, sowing of bottle guard (PSPL, PSPR, Pusa Navin, Pusa meghdoot, Arka bahar ) is advised.

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