



# National Agromet Advisory Service Bulletin Based on

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

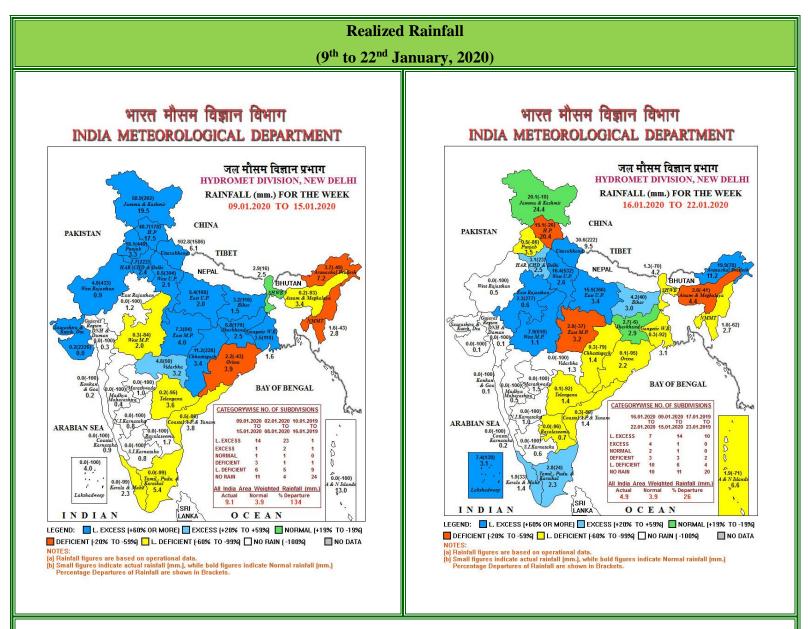
Validity: (24<sup>th</sup> January to 06<sup>th</sup> February 2020)

Date of issue: 24<sup>th</sup> January 2020

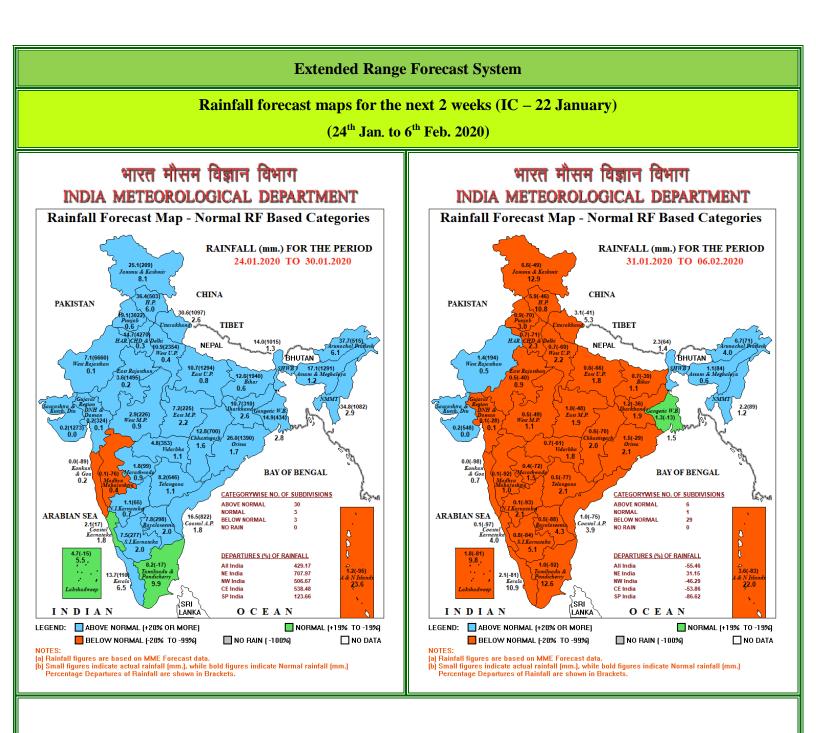
Issued by Indian Council of Agricultural Research (ICAR) All India Coordinated Research Project on Agro meteorology (AICRPAM), Central Research Institute for Dryland Agriculture (CRIDA), Hyderabad.

Earth System Science Organization India Meteorological Department

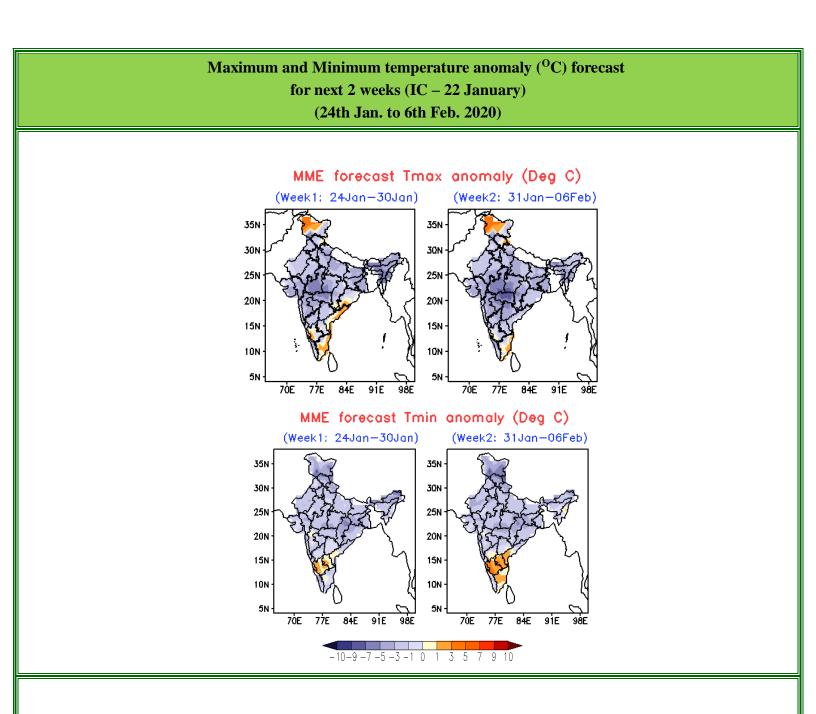
#### Realized Rainfall and Extended Range Forecast (Rainfall and Temperatures)



- Normal or Above normal rainfall occurred in both the weeks in Jammu & Kashmir, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar and Jharkhand.
- Normal or above normal rainfall occurred in either of the two weeks in Himachal Pradesh, Punjab, West Rajasthan, East Rajasthan, West Madhya Pradesh, East Madhya Pradesh, Chhattisgarh, Sub-Himalayan West Bengal & Sikkim, Gangetic West Bengal, Arunachal Pradesh, Saurashtra & Kutch, Vidarbha, Tamil Nadu Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Below normal rainfall/no rain occurred over rest of the country.



• Week 1 (24.01.2020 to 30.01.2020) and Week 2 (31.01.2020 to 06.02.2020): Extreme north Indian states will likely to get light to moderate rainfall under the influence of Western Disturbance during week 1. Some parts over northeastern states and adjoining eastern coastal states (West Bengal, Odisha, Coastal Andhra Pradesh etc) of India are expected to get rainfall during week 1 and week 2.



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

• Week 1 (24.01.2020 to 30.01.2020) and Week 2 (31.01.2020 to 06.02.2020): Tmax anomaly is mostly negative over most parts of India except extreme north India and some parts of eastern coastal regions.

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

• Week 1 (24.01.2020 to 30.01.2020) and Week 2 (31.01.2020 to 06.02.2020): Tmin anomaly is mostly negative over most parts of India except extreme north India and some parts of eastern coastal regions.

### Strategic Agricultural Planning based on rainfall during next two weeks till 06<sup>th</sup> February 2020

#### **Agromet Advisories**

#### Kerala

Amount of rainfall received over Kerala is 630.9 mm (27% excess) during the period of 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) is above normal for week-1 and below normal for week-2.

- There is a chance of blast disease in paddy. It is advised to spray 20 g Pseudomonas per one litre of water.
- Due to winter season, there is a chance of powdery mildew in vegetables. Spraying of 20 g Trichoderma per one litre of water is advised.

#### Tamil Nadu

Amount of rainfall received over Tamil Nadu is 461.9 mm (normal rainfall) during the period of 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) is normal for week-1 and below normal for week-2.

- Prevailing weather conditions are favorable for spotted boll worm in cotton. Spray Chlorantraniliprole 18.5% SC 150 ml/ha or Flubendiamide 39.3% SC 100-125 ml/ha for the control of spotted boll worm.
- Prevailing weather condition is favorable for sugary disease in safflower. Spraying of Captafol 0.2% three time at 5-day intervals starting from ear head emergence is advised.

#### Maharashtra

Rainfall received over Madhya Maharashtra is 228.6 mm (119% large excess), over Marathwada is 260.1 mm (151% large excess), Vidharbha is 86.5 mm (-2% deficit) and Konkan region 281.5 mm (101% large excess) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) over Marathwada and Vidharbha are above normal and over Konkan and Madhya Maharashtra are below normal for week-1 and below normal over Marathwada, Vidharbha Konkan and Madhya Maharashtra for week-2.

#### Konkan

- Due to favorable weather conditions, there is a possibility of incidence of hoppers and powdery mildew diseases in mango blossom. Spray of Lambda cyhalothrin 5%EC @ 6 ml + Hexaconazole @ 5 ml/10 litre in water at the time of flower bud initiation is advised.
- Due to increase in temperature and decrease in humidity, there is a possibility of incidence of tea mosquito bug and thrips in vegetative flush of cashewnut. To protect the flush of cashew, spray Profenophos 50% EC @10 ml/10 litre of water

#### Madhya Maharashtra

- Weather is congenial to aphid infestation in safflower crop. For control, spray Dimethoate 20 EC @15 ml/10 litre of water.
- Spray of 1% KNO<sub>3</sub> is advised during flowering stages of chickpea crop.

#### Rajasthan

Rainfall received during 01 Oct. 2019 - 23 Jan. 2020 over East Rajasthan is 40.3 mm (40% excess). The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) over East Rajasthan is above normal for week-1 and below normal for week-2.

- For monitoring pod borer in the gram crop, installation of Pheromone trap @ 3-4 traps/acre is advised. "T" shaped bird perches in and around crop field to be installed for controlling insect population.
- In present weather condition, constant monitoring of aphid is advised in mustard crop. If insect population above ETL then spraying of Rogar or Quinalphos @ 2.0 ml/ litre water is recommended.
- Irrigation is advised after 65-70 days at jointing and booting stage in wheat, at flowering stage in barley and at grain development stage in mustard.

#### Jammu

Rainfall received during 01 Oct. 2019 - 23 Jan. 2020 in Jammu is 375.4 mm (90% large excess). The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) is above normal for week-1 and below normal for week-2.

- Due to favourable weather conditions, monitoring of mustard crop for alternaria blight is advised. If observed, spray Mancozeb @ 0.25% to control alternaria blight.
- It is advised to apply light irrigation to young flower plants to protect them from low temperature.
- It is advised to sterilize the pits prepared for guava plantation with formalin in wilt affected areas.

#### Himachal Pradesh

Amount of rainfall received over Himachal Pradesh is 222.9 mm (51% excess) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast provided for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) on rainfall over Himachal Pradesh is above normal for week-1 and below normal for week-2.

- It is advised to complete the potato sowing in lower, mid hill and plain regions.
- Dingri mushroom can be sown in closed room, with temperature at 25-28°C and relative humidity of 80-85 % for good crop.
- It is advised to wrap the mango trunk with plastic sheets to prevent climbing of young mealy bugs.

#### Hisar

Amount of rainfall received over Hisar is 44.2 mm (56% excess) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast provided for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) on rainfall over Hisar is above normal for week-1 and below normal for week-2.

- Farmers are advised to keep vigilance on hairy caterpillar and mustard sawfly in mustard crop. Apply need based irrigation and intercultural operations to conserve the soil moisture.
- Apply requirement based irrigation in evening hours to protect the crops from frost and low temperature and apply recommended doses of fertilizers in existing vegetable crops and monitor for insect-pests and diseases. Go for effective weed management measures.
- Due to fall in night temperature and cloudy weather, keep the animals under shed. Provide 50 g iodized salt and 50 to 100 g mineral mixture daily with animal feed/fodder to keep them healthy.

#### Gujarat

Amount of rainfall received over Gujarat is 83.8 mm (175% large excess) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast provided for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) on rainfall over Gujarat is above normal for week-1 and below normal week-2.

- It is advised to protect the paddy nursery from cold wind by providing fencing on outer side of field or cover the nursery area by 4-5 feet fencing with net.
- For the control of *Helicoverpa armigera* in pigeon pea and gram, spraying of Indoxacarb14.5% S.C.
  @ 10 ml per10 litre water or Spinosad 45% S.C. @ 3 ml per 10 litre water is advised .
- For the control of sucking pest in tomato crop, spraying with neem seed powder 500 g (5% Extract) or Neem based insecticide 20 ml (1 EC) to 40 ml (0.15 EC) in 10 litre water is advised.

#### Karnataka

Rainfall received during 01 Oct. 2019 - 23 Jan. 2020 over South Interior Karnataka is 307.8 mm (49% excess) and North Interior Karnataka is 245.5 mm (74% large excess). The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) over South Interior Karnataka and North Interior Karnataka are above normal for week-1 and below normal over South Interior Karnataka and North Interior Karnataka for week-2.

#### South Interior Karnataka

- There is a chance of leaf hopper and powdery mildew disease incidence before flowering and after fruit formation in mango. To control, spraying of Carbaryl, 50WP @4g/litre of water or Imidachlorprid @ 0.3ml/ litre of water is advised.
- It is advised to align the long axis of poultry shed in east-west direction. This will prevent the direct sunshine over the birds.
- Manage the humidity in the silk worm rearing house by providing cross-ventilation. Apply dry slaked lime powder when silkworms settle for moult.

#### Uttar Pradesh

Uttar Pradesh Rainfall received during 01 Oct. 2019 - 23 Jan. 2020 over East Uttar Pradesh is 71.8 mm (29% excess) and West Uttar Pradesh is 80.0 mm (98% large excess). The extended range weather forecast for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) over East Uttar Pradesh and West Uttar Pradesh are below normal for week-1 and week-2.

- Because of prevailing rainy weather, farmers are advised not to irrigate the wheat crop during critical stages like CRI and tillering.
- Nipping is advised in chickpea at 45 DAS.
- Farmers are advised to follow a regular vaccination programme for cattle, buffalo, goat, sheep and poultry to prevent the infectious diseases.

#### West Bengal

Amount of rainfall received over West Bengal is 269.9 mm (62% large excess) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast provided for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) on rainfall over West Bengal is above normal for week-1 and normal for week-2.

- It is advised for the transplanting of boro rice to the main field and Application of water in the field at night and draining the water at morning in the boro rice field to avoid frost injury.
- It is advised to irrigate the mustard field at the time of flowering (for late sown crop) or pod initiation (for early sown crop). Keep continuous vigilance for aphid attack. To control the attack, apply 1.5 ml Metasystox or Rogor per litre of water.

#### Bihar

Amount of rainfall received over Bihar is 52.1 mm (-35% deficit) during 01 Oct. 2019 - 23 Jan. 2020. The extended range weather forecast provided for next two weeks (24 - 30 Jan. and 31 Jan. - 06 Feb. 2020) on rainfall over Bihar is above normal for week-1 and week-2.

- Regular monitoring is advised for the infestation of hoppers and mealy bug in litchi. Spraying of Imadaclorprid17.8 SL or Cypermethrin10EC @1ml/litre of water is advised on the foliage of the trees in clear days.
- Regular monitoring is advised for infestation of cut worm in potato crop. If infestation is observed in the crop field, spraying of Chlorpyriphos 20EC@2.5-3 ml per litre of water is advised.

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