

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 12 February 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Dense to Very Dense Fog in isolated/some pockets very likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh in the morning hours of 13th, 14th & 15th February and Dense Fog in isolated pockets over the same area in the morning hours of 16th & 17th February, 2021. Dense Fog in isolated pockets also very likely over northwest Rajasthan and Gangetic West Bengal in the morning hours of 13th & 14th February, 2021.
- The images showing the latest satellite picture in the figure. 1.

#### **Main Weather Observations (IMD)**

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at some places over Andaman & Nicobar Islands.
- Fog reported at 0830 hrs IST of today: Dense to Very Dense Fog in many pockets over Punjab; in isolated pockets over Haryana, Chandigarh, northwest Rajasthan and Uttar Pradesh and Moderate Fog in isolated pockets over Delhi, Jammu Division and Bihar.
- Maximum Temperature Departures as on 11-02-2021: Maximum temperatures were markedly above normal (5.1°C or more) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Himachal Pradesh; at a few places over Arunachal Pradesh; at isolated places over Uttarakhand; appreciably above normal (3.1°C to 5.0°C) at most Places over Jharkhand; at many places over Assam & Meghalaya, Punjab, Rajasthan and Gujarat Region; at a few places over Andaman & Nicobar Islands and Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Uttar Pradesh, Madhya Pradesh, Vidarbha, Odisha, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; at a few places over Haryana, Chandigarh, Nagaland, Manipur, Mizoram & Tripura and Chhattisgarh and at isolated places over Konkan & Goa Bihar, Gangetic West Bengal, Madhya Maharashtra and Coastal Karnataka. They were below normal (-1.6°C to -3.0°C) at a few places Kerala & Mahe and Rayalaseema and at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts

of the country. Yesterday, the highest maximum temperature of 36.0°C was reported at Kottayam (Kerala) over the country.

- Minimum Temperature Departures as on 12-02-2021: Minimum temperatures are markedly above normal (5.1°C or more) at isolated places over West Rajasthan; above normal (1.6°C to 3.0°C) at most places over Punjab; at many places over Uttarakhand; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad and East Rajasthan; at isolated places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Bihar and Sub-Himalayan West Bengal & Sikkim. They are appreciably below normal (-3.1°C to -5.0°C) at many places over South Interior Karnataka and Rayalaseema; at isolated places over Tamilnadu, Puducherry & Karaikal; below normal (-1.6°C to -3.0°C) at many places over Kerala & Mahe; at a few places over Vidarbha, Coastal Andhra Pradesh & Yanam and Lakshadweep and at isolated places over Saurashtra & Kutch, East Madhya Pradesh, Telangana, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and near normal over rest parts of the country. The lowest minimum temperature of 6.9°C reported at Narnaul (Haryana) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 12 February (Day 1): Dense to Very Dense Fog in some pockets very likely over Punjab and Haryana, Chandigarh & Delhi and in isolated pockets over Uttar Pradesh and Dense Fog in isolated pockets over Gangetic West Bengal and northwest Rajasthan.
- 13 February (Day 2): Dense to Very Dense Fog in some pockets very likely over Punjab and Haryana, Chandigarh & Delhi and in isolated pockets over Uttar Pradesh and Dense Fog in isolated pockets over Gangetic West Bengal and northwest Rajasthan.
- 14 February (Day 3): Dense to Very Dense Fog in isolated pockets very likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh.
- 15 February (Day 4): Dense Fog in isolated pockets likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh.
- 16 February (Day 5): Dense Fog in isolated pockets likely over Punjab, Haryana, Chandigarh & Delhi and Uttar Pradesh. Thunderstorm accompanied with lightning likely in isolated places over Madhya Pradesh, Vidarbha and Chhattisgarh.
- The weather outlook for seven days i.e., 12 to 20 February 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from

<http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## **Agricultural activities (AICRPAM-CRIDA)**

### **Marathwada**

#### **Weather condition:**

At Parbhani centre: 05 to 11 Feb (SMW 6) during this period no rainfall was recorded. The Maximum temperature was range from 28.6 to 32.0 0C and minimum temperature range from 8.7 to 15.7 0C. Relative humidity (RH I) ranged between 52 to 75 % and relative humidity (RH II) recorded was 09 % to 27 %. The wind speed varied between 1.7 to 5.1 km/hr.

#### **Contingency measure:**

- Chick pea Irrigation management should be done in late sown Chick pea crop as per requirement and availability of water. For management of pod borer in chickpea crop take a spray of 5 % NSKE or Quinalphos 25% EC @ 20 ml or Enamectin Benzoate 5 % @ 4.5 gm per 10 liter of water.
- Safflower For management aphids in safflower crop take a spray of Dimethoate 30 % @ 13 ml or Acephate 75 % @ 10 gram Irrigation management should be done in Safflower crop as per requirement and availability of water. For management aphids in safflower crop take a spray of Dimethoate 30 % @ 13 ml or Acephate 75 % @ 10 gram per 10 liter of water.
- Rabi sorghum Irrigation management should be done in Rabi sorghum as per availability of water during flowering / grain filling stage. For management of aphids in Rabi sorghum take a spray of Dimethoate 30 % EC@ 13 ml per 10 liter of water.
- Wheat For the management of field rats in wheat crop prepare a mixture with 1 part Zinc Phosphide + 1 part Jaggery + 50 parts wheat flour and edible oil. Apply this mixture in the burrows and close them. For management of rust in wheat crop take a spray of Zineb or Mancozeb (75 WP) @ 25 gram per 10 liter of water.
- Banana For management of Sigatoka disease in Mrig bag planted banana orchard takes a spray of Propiconazole 10 ml + Sticker per 10 liter of water. Cover the fruit Bunches of banana for maintaining the quality of fruit. Irrigation management should be done in Banana orchard.
- Mango Spraying should be avoided during flowering stage in mango because it affects pollination. If required take a spray of 5 % NSKE or

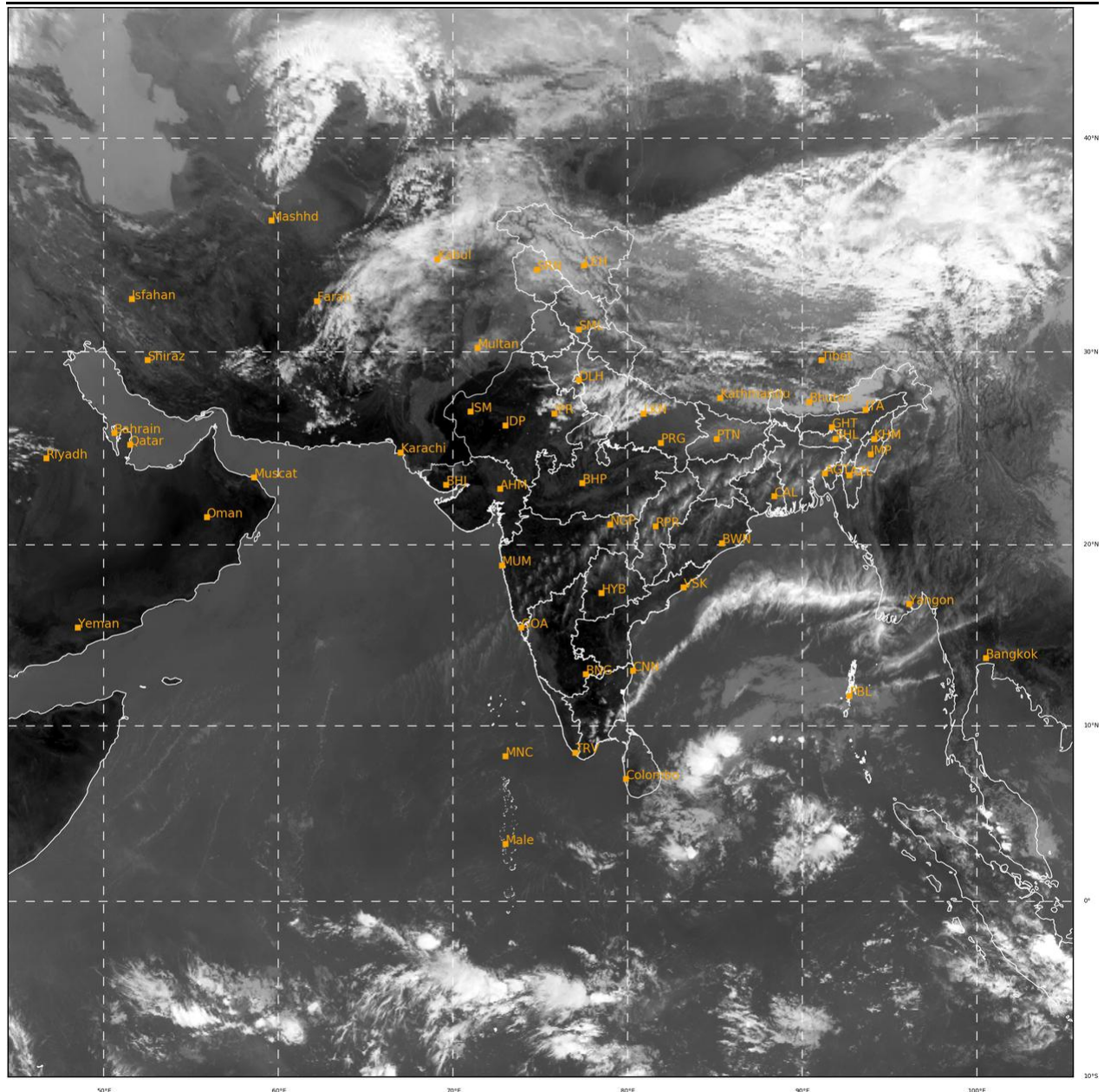
Thiamethoxam 25 % @ 2 gram per 10 liter of water for management of jasids. For management of powdery mildew and blight in mango take a spray of Hexaconazole @ 5 ml per 10 liter of water.

- Citrus Irrigation management should be done in ambe-bahar citrus orchard during flowering stage. Apply 500:500:500 gram NPK per plant in mandarin Orange and 400:400:400 gram NPK per plant in Sweet Orange for ambe-bahar and irrigate the Orchard. Also take a spray of Micronutrients. Pomegranate Irrigation management should be done in ambe-bahar Pomegranate orchard during flowering stage. Take a spray of 1% Bordeaux mixture in Pomegranate orchard. Sapota Harvesting of mature sapota fruits should be done. Grape Irrigation management should be done in Grape orchard. Management practices should be adopted for management of Powdery mildew diseases in grape orchard.
- Vegetable For management of Sucking pests in vegetable crops (Chilli, brinjal, Ladies finger.) take a spray of Pyriproxyfen 5 % + Fenpropathrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liter of water. For management of Sucking pests in Tomato take a spray of Cyantraniliprole 10.26 % @ 18 ml ml per 10 liter of water. Sericulture To harvest A grade quality cocoon, farmers need to take skill development training in silkworm rearing. To maintain 80 % moisture in mulberry, irrigation should be given at 6-7 days in light soil and 10 to 12 days interval in heavy soils. Compost fertilizer application should be given two times per year at June and in November month @ 4 tons per acre at one time (Total 8 tons per acre). Than only you will harvest 25 tons leaf yield per acre i.e. 250 DFL?s of silkworm crop for 5 to 6 times in a year will given 200 kg cocoons yield @ Rs. 300 per Kg will give Rs. 3 lakhs per year to the farmers.
- Floriculture For management of Sucking pests in vegetable crops (Chilli, brinjal, Ladies finger.) take a spray of Pyriproxyfen 5 % + Fenpropathrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liter of water. For management of Sucking pests in Tomato take a spray of Cyantraniliprole 10.26 % @ 18 ml ml per 10 liter of water. Community Science Processing of fruits and vegetables before dehydrate maintains colour flavour and taste of the dehydrated fruits and vegetables. When cost of fruits and vegetables gets lower down in market, dehydration method of value addition is very much beneficial.



SAT : INSAT-3D IMG  
IMG\_TIR1 10.8 um  
L1C Mercator

12-02-2021/(0800 to 0826) GMT  
12-02-2021/(1330 to 1356) IST

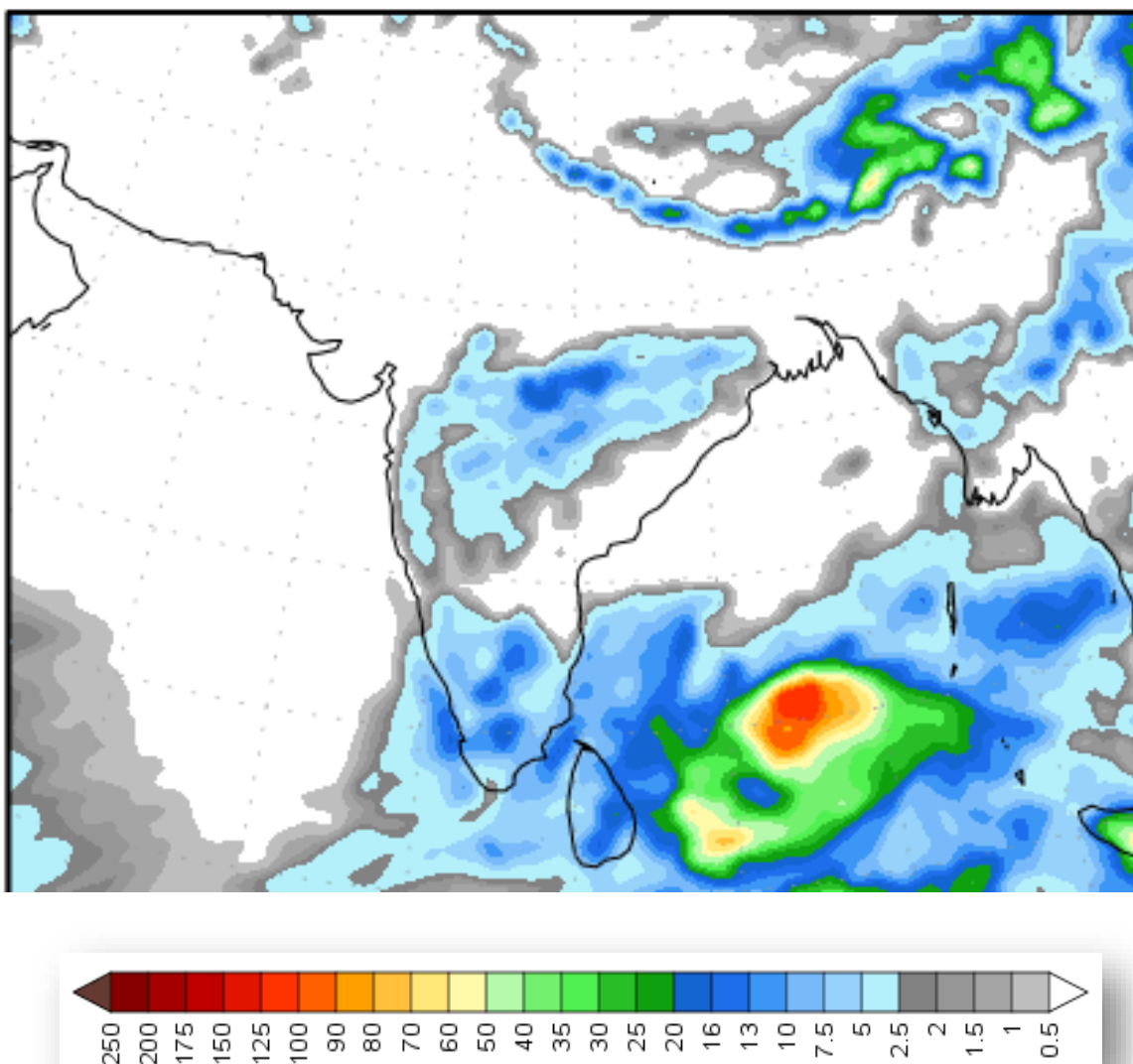


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IMD, DELHI

**Figure: 1. Latest available satellite picture as on 12 February 2021 at 1356 Hrs (IST).  
(Source: IMD).**



**Figure:2. Precipitation forecast for 12 to 20 February 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*