

**All India Coordinated Research Project on Agrometeorology**  
**CRIDA, Santoshnagar, Hyderabad – 500 059**

**Daily Crop Weather Information as on 25 January 2022**

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

**Significant Weather Features (IMD)**

- A Western Disturbance as a cyclonic circulation lies over northwest Uttar Pradesh in lower tropospheric levels. The trough aloft in mid & upper tropospheric westerlies runs roughly along Long. 77°E to the north of Lat. 32°N.
- A cyclonic circulation lies over Comorin area & neighbourhood and a trough runs from south Tamilnadu to Rayalaseema in lower tropospheric levels.
- A fresh Western Disturbance is very likely to affect Western Himalayan Region from 29th January, 2022. Forecast & Warnings:
- Isolated light rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad on 25th and over Himachal Pradesh & Uttarakhand on 25th & 26th and dry weather thereafter for subsequent 3 days.
- Scattered light/moderate rainfall very likely over Sub-Himalayan West Bengal & Sikkim on 25th & 26th and isolated rainfall thereafter. Isolated light rainfall very likely over Bihar, Jharkhand, Gangetic West Bengal and Odisha during next 2 days and isolated light rainfall over Andaman & Nicobar Islands during next 4 days.
- Scattered to fairly widespread light/moderate rainfall very likely over Northeast India during 25th-27th January and reduction thereafter.
- Under the influence of a fresh Western Disturbance from 29th January, 2022, light isolated to scattered rainfall/snowfall is likely over Western Himalayan Region from 29th to 31st January, 2022.
- Dense/very dense fog conditions in night/morning hours in isolated pockets very likely over Punjab, Haryana & West Uttar Pradesh during next 2 days; Dense fog conditions in isolated pockets very likely over north Rajasthan, Odisha during next 2 days and over Bihar, Jharkhand and Sub-Himalayan West Bengal & Sikkim on 26th January.
- Cold day in some parts with Severe Cold day conditions in isolated pockets very likely over West Madhya Pradesh during next 3-4 days; Cold day to severe cold day conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh during next 2 days. Cold day conditions in some parts over East

Madhya Pradesh during 26th-28th and in isolated pockets over north Madhya Maharashtra, Marathwada and Gujarat state during next 2 days.

- Cold wave/severe Cold wave conditions in isolated pockets very likely over Madhya Pradesh during next 5 days; over Punjab, Haryana-Chandigarh, Rajasthan during next 3-4 days; over Uttar Pradesh during 27th-30th; over north Madhya Maharashtra, Marathwada, Gujarat state during next 2 days and over Odisha on 29th & 30th January.
- The images showing the latest satellite picture in the figure. 1.

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

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at many places over Himachal Pradesh, Uttarakhand and Nagaland, Manipur, Mizoram & Tripura; at a few places over Jammu & Kashmir, Ladakh, Gilgit Baltistan & Muzaffarabad, Sub-Himalayan West Bengal & Sikkim, Andaman & Nicobar Islands and Arunachal Pradesh and at isolated places over Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Odisha, Assam & Meghalaya, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- Cold Day to Severe Cold Day conditions prevailed in some parts of Himachal Pradesh, West Madhya Pradesh, North Rajasthan and Uttarakhand and Cold Day conditions in isolated pockets over Haryana, Chandigarh & Delhi, East Madhya Pradesh, West Uttar Pradesh and Gujarat State.
- Fog observed (at 0830 hours IST of today): Dense to Very Dense Fog in some pockets of Punjab; in isolated pockets of Jammu division, Uttarakhand, West Uttar Pradesh and West Rajasthan; Moderate to Dense Fog in isolated pockets of Haryana and Moderate Fog in isolated pockets of Bihar, West Bengal & Sikkim and Odisha.
- Minimum Temperature Departures (as on 25-01-2022): Minimum temperatures are markedly above normal (5.1 or more) at a few places over Bihar; at isolated places over Jharkhand, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal; appreciably above normal (3.1°C to 5.0°C) at a few places over Punjab and Gangetic West Bengal; at isolated places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, East Uttar Pradesh and Coastal Andhra Pradesh & Yanam; above normal (1.6°C to 3.0°C) at a few places over Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Chhattisgarh, Odisha and Rayalaseema; at isolated places over Assam & Meghalaya. They are markedly below normal (-5.1 or less) at isolated places over Saurashtra & Kutch and

Madhya Maharashtra; appreciably below normal (3.1°C to 5.0°C) at many places over Marathwada and Konkan & Goa; at a few places over East Rajasthan, West Madhya Pradesh, Vidarbha, Interior Karnataka and Andaman & Nicobar Islands; at isolated places over Gujarat Region; below normal (-1.6°C to -3.0°C) at many places over Coastal Karnataka; at a few places over Telangana and Kerala & Mahe; at isolated places over Haryana, Chandigarh & Delhi and West Rajasthan and near normal over rest parts of the country. The Lowest minimum temperature of 3.2°C reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

- Maximum Temperature Departures (as on 24-01-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at isolated places over Coastal Andhra Pradesh & Yanam and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at most places over Himachal Pradesh, Haryana, Chandigarh & Delhi, Punjab and Marathwada; at many places over Uttarakhand, West Madhya Pradesh and Jharkhand; at a few places over Rajasthan, Gujarat State, Vidarbha and Telangana; at isolated places over East Madhya Pradesh and Konkan & Goa; appreciably below normal (-3.1°C to -5.0°C) at many places over Gangetic West Bengal, Madhya Maharashtra, Uttar Pradesh and North Interior Karnataka; at a few places over Sub-Himalayan West Bengal & Sikkim, and Nagaland, Manipur, Mizoram & Tripura, Telangana; at isolated places over Odisha; below normal (-1.6°C to -3.0°C) at a few places over Rayalaseema, Coastal Karnataka and Kerala & Mahe and at isolated places over Andaman & Nicobar Islands and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C was reported at K.Paramathy (Tamil Nadu).

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

- 25 January (Day 1): Dense to Very Dense Fog in isolated pockets very likely over Punjab, Haryana and West Uttar Pradesh and Dense Fog in isolated pockets over north Rajasthan, Bihar, Jharkhand, Sub-Himalayan West Bengal & Sikkim and Odisha. Cold Day conditions in some parts with Severe Cold Day in isolated pockets very likely over West Madhya Pradesh; Cold Day to Severe Cold Day conditions in isolated pockets over Punjab, Haryana Chandigarh-Delhi and West Uttar Pradesh and Cold Day conditions in isolated pockets over Gujarat state, north Madhya Maharashtra and Marathwada. Cold Wave conditions in isolated pockets very likely over Punjab, Rajasthan, West Madhya Pradesh, Vidarbha, Gujarat state, north Madhya Maharashtra and Marathwada. Thunderstorm

accompanied with lightning at isolated places very likely over east Arunachal Pradesh.

- 26 January (Day 2): Dense Fog in isolated pockets very likely over Punjab, Haryana, West Uttar Pradesh, north Rajasthan and Odisha. Cold Day conditions in some parts with Severe Cold Day in isolated pockets very likely over West Madhya Pradesh; Cold Day to Severe Cold Day conditions in isolated pockets over Punjab and Haryana-Chandigarh-Delhi and Cold Day conditions in some parts over East Madhya Pradesh; in isolated pockets over West Uttar Pradesh, Gujarat state, north Madhya Maharashtra and Marathwada. Cold Wave to Severe Cold Wave conditions in isolated pockets very likely over Rajasthan and West Madhya Pradesh and Cold Wave conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh, East Madhya Pradesh, Vidarbha, Chhattisgarh, Gujarat state, north Madhya Maharashtra and Marathwada.
- 27 January (Day 3): Cold Day conditions in some parts very likely over Madhya Pradesh. Cold Wave to Severe Cold Wave conditions in isolated pockets very likely over Rajasthan and West Madhya Pradesh and Cold Wave conditions in isolated pockets over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Madhya Pradesh, Vidarbha and Chhattisgarh.
- 28 January (Day 4): Cold Day conditions in isolated pockets likely over Madhya Pradesh. Cold Wave conditions in isolated pockets likely over Punjab, Haryana-Chandigarh-Delhi, Uttar Pradesh, East Rajasthan, Madhya Pradesh and Odisha.
- 29 January (Day 5): Cold Wave conditions in isolated pockets likely over Uttar Pradesh, Madhya Pradesh and Odisha.
- The weather outlook for seven days i.e., 25 Jan to 02 Feb 2022 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)

### **Konkan region**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 6.8 to 9.4 Bright sunshine hours was recorded during last week. During last week 13.0 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 27.5 to 32.0 and 10.6 to 14.0 oC respectively. Wind velocity ranged from 2.0 to 3.4 km and wind was blowing from south westerly Direction.

### Contingency measure:

- SMS advisory: Due to forecast light rainfall at isolate places on 22nd and 23rd January 2022, the pre-harvest bagging with newspaper bag of size 25 X 20 cm at marble to egg stage as per recommendation of D.B.S.K.K.V. helps to protect the fruits from rain water, fruit fly incidence and improves quality and spot less fruit in mango. Care should be taken that avoid injury to fruit stalk while bagging fruits with paper bag
- Mango: Due to forecast for cloudy rainy weather, there is possibility for anthracnose and powdery mildew disease on mango inflorescence, if rainfall realized, then for protection against powdery mildew disease, spray Hexaconazole 5% SC @ 5 ml per 10 liter of water and for control of anthracnose disease, spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 liter of water. Prevailing weather conditions favors the incidence of hoppers on flower bud to fruit stage in mango. To protect the inflorescence from pest, spray Lambda cyhalothrin 5% EC @ 6 ml per 10 liter in water during clear weather. There is possibility incidence of hoppers, midge fly on mango inflorescence. For management of pest, spray of Imidacloprid 17.8% SL @ 6 ml or Buprofezin 25% SC @ 20 ml per 10 liter of water during clear weather. To protect the mustard size fruits of mango from hoppers as per blossom protection schedule for mango crop, take a fourth spray of Thiomethoxam 25% WG @ 1 gm per 10 liter of water. (Note: avoid spraying during flowering to fruit setting period for effective pollination. If it is not possible to postpone the spraying till fruit set due to heavy incidence of insect and pest, then avoid spraying during morning hours (09.00 am to 12.00 pm) which is active period of pollinators for pollination.). Due to forecast light rainfall at isolate places on 22nd and 23rd January 2022, the pre-harvest bagging with newspaper bag of size 25 X 20 cm at marble to egg stage as per recommendation of D.B.S.K.K.V. helps to protect the fruits from rain water, fruit fly incidence and improves quality and spot less fruit in mango. Care should be taken that avoid injury to fruit stalk while bagging fruits with paper bag. Due to forecast for cloudy weather with light rainfall, there is possibility for incidence of fruit fly on mango fruits of egg size. Collect and destroy all fallen fruits and install Rakshak fruit fly trap developed by University @ 2 traps per acre. To minimize the pre-mature fruit drop of mango, as per availability of water, apply 100 liter / tree at weekly or 150 to 200 liter / tree at 15 days interval from pea to arecanut fruit size also use straw mulch. For increasing the production and quality improvement of mango fruits, spray 1 % Potassium nitrate at pea marble and arecanut size stage of mango fruits. Fall in minimum temp. favors recurrent flowering from mango which is in fruit setting stage, to avoid recurrent

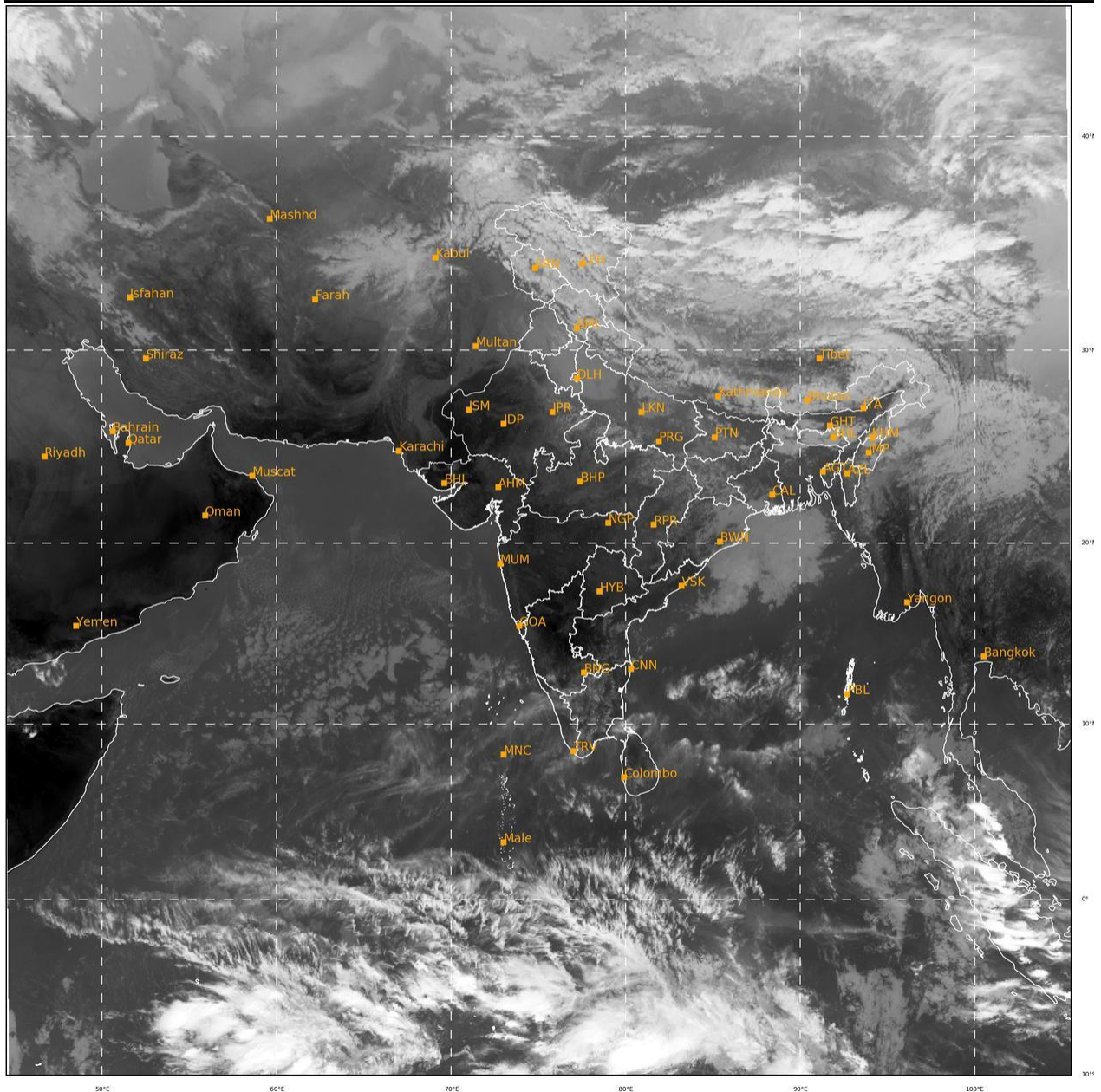
flowering, spray gibberellin acid 50 PPM (1 gms/20 lit of water) at time of fully open flower and mustard size fruit stage. Before spraying ensure that a tree has a sufficient flowering.

- Cashewnut: Due to forecast light rainfall at isolate places on 22nd and 23rd January 2022, There is possibility for incidence of cashew apple and nut borer, if incidence is noticed spray Profenophos 50%EC @ 15 ml per 10 liter of water
- Arecanut: Due to forecast light rainfall at isolate places on 22nd and 23rd January 2022, keep the harvested nuts for drying at safe place
- Rabi Summer rice: Prepare field for rice transplanting by puddling. At the time of puddling apply 870 gms urea, 3130 gms single super phosphate and 840 gms muriate of potash per guntha. Transplant the rice seedlings of 35 to 40 days old with 5 to 6 leaves with height of 12 to 15 cm. Transplant 3 rice seedling per hill at a spacing of 20 × 15 cm. Maintain optimum water level of 2.5- 5 cm upto 30 days after transplanting
- Cowpea, Mustard: Due to forecast for light rainfall from 8th to 11th January, 2021 and cloudy weather condition till 13th January 2021, there is possibility of incidence of aphids, hoppers on lablab, cowpea crop which develop into growth of black fungus on leaves and inflorescence. If incidence is noticed, spray Dimethoate 30%EC@12 ml per 10 liter of water during clear weather
- Brinjal: There is possibility for incidence of bacterial or fungal wilt disease in brinjal. For management of bacterial wilt, collected and destroy infected plant. Follow crop rotation with crop other than solanaceous family. Use resistant varieties. for fungal wilt disease management drench the Trichoderma solution @ 5 gms per liter of water
- Turmeric: Carryout harvesting of matured turmeric rhizome. After boiling, keep the rhizome for drying on concrete floor for approx. 10 to 15 days. Since there is forecast for light rainfall at isolate places on 22nd and 23rd January 2022, keep the rhizome for drying at safe place
- Black paper: Carryout harvesting of black paper by hand picking the whole spikes when few berries in the spike start turning yellow or red. The berries are separated and dipped in hot water (80°C) for one minute and sun dried for 3 to 4 days. Due to forecast light rainfall at isolate places on 22nd and 23rd January 2022, keep the processed blackpeper for drying at safe place
- Goat farming: Protect the Goats kids from low temperature by providing electric bulbs during night time
- Poultry: Protect the poultry birds from low temperature by providing curtains and electric bulbs during night time.



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

25-01-2022/(0830 to 0857) GMT  
25-01-2022/(1400 to 1427) IST

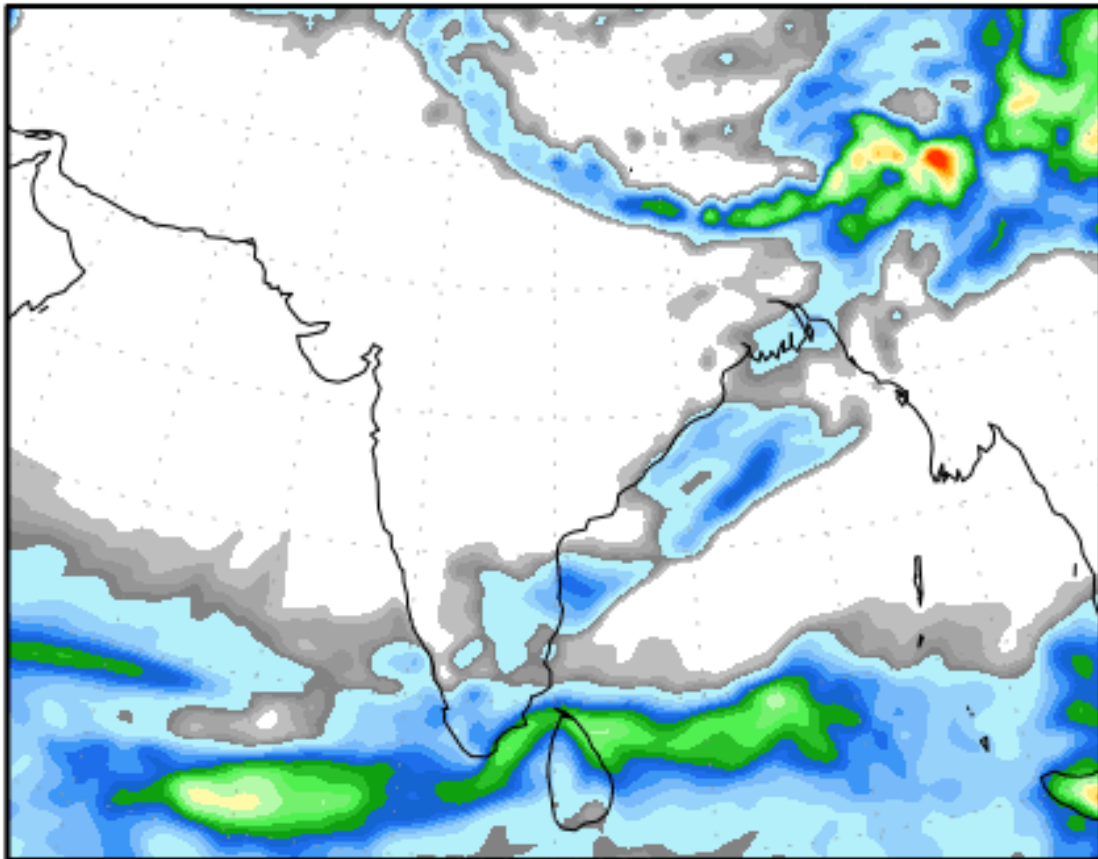


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IMD, DELHI

Figure: 1. Latest available satellite picture as on 25 Jan 2022 at 1427 Hrs (IST). (Source: IMD).



**Figure:2. Precipitation forecast for 25 Jan to 02 Feb 2022 (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.*