

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

Daily Crop Weather Information as on 07 February 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a the trough in lower & middle tropospheric westerlies with its axis at 3.1 km above mean sea level now runs roughly along Long. 65°E to the north of Lat. 28°N. An induced cyclonic circulation lies over West Rajasthan & neighbourhood in lower tropospheric levels. Under its influence; scattered light rainfall/snowfall very likely over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad during next 24 hours and isolated rainfall/snowfall during subsequent 24 hours; isolated rainfall/snowfall over Himachal Pradesh and Uttarakhand during next 2 days.
- A fresh Western Disturbance and its induced cyclonic circulation very likely to affect Northwest India from the night of 08th February; it is very likely to cause 1. Scattered to fairly widespread light/moderate rainfall/snowfall with thunderstorm & lightning over Western Himalayan Region (over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh and Uttarakhand) during night of 08th and 09th February, 2022. 2. Fairly widespread rainfall with thunderstorm & lightning likely over Punjab, Haryana-Chandigarh-Delhi, West Uttar Pradesh and isolated rainfall over East Uttar Pradesh & north Rajasthan on 09th February. Isolated hailstorm likely over West Uttar Pradesh on 09th February. 3. Isolated to scattered rainfall likely over West Bengal, Sikkim, Bihar, Jharkhand and north Odisha on 09th & 10th February, 2022.
- Dense Fog Conditions very likely in isolated/some parts in night/morning hours over Uttar Pradesh, Bihar, Sub-Himalayan West Bengal, Assam, Meghalaya and Tripura during next 2 days and over Odisha on 09th February.
- Cold Day to Severe Cold Day Conditions very likely in isolated pockets over East Uttar Pradesh during next 48 hours; cold day over West Uttar Pradesh during next 24 hours and abate thereafter.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at many places over Andaman & Nicobar Islands; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and at isolated place over Himachal Pradesh, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Kerala & Mahe.
- Fog observed (at 0830 hours IST of today): Dense to very dense fog in some pockets over East Uttar Pradesh and in isolated pockets over East Bihar; Moderate to dense fog in isolated pockets over Jammu division, Uttarakhand, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- Cold wave condition prevailed in isolated pockets over East Uttar Pradesh.
- Cold Day conditions prevailed in some parts of East Uttar Pradesh and Bihar and in isolated pockets over West Uttar Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Nil.
- Minimum Temperature Departures (as on 07-02-2022): Minimum temperatures are above normal (1.6°C to 3.0°C) at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan, South Interior Karnataka, Rayalaseema, Tamilnadu, Puducherry & Karaikal and Andaman & Nicobar Islands and at isolated places over East Rajasthan, Gujarat Region, Madhya Maharashtra and Kerala & Mahe. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over East Uttar Pradesh, Vidarbha, Bihar, Odisha, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at a few places over West Uttar Pradesh, West Madhya Pradesh, North Interior Karnataka, Chhattisgarh, Jharkhand, Nagaland, Manipur, Mizoram & Tripura and at isolated places over Saurashtra & Kutch and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.4°C reported at Kanpur (East Uttar Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 06-02-2022): Maximum temperatures were above normal (1.6°C to 3.0°C) at isolated places over Andaman & Nicobar Islands and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (-5.1°C or less) at many places over Bihar and at a few places over East Uttar Pradesh; appreciably below normal (-3.1°C to -5.0°C) at many places over West Uttar Pradesh, Punjab and Nagaland, Manipur, Mizoram & Tripura and at a few places over West Bengal & Sikkim and Odisha and at isolated places over

Assam & Meghalaya; below normal (-1.6°C to -3.0°C) at most places over Jharkhand; at many places over Coastal Karnataka; at a few places over Arunachal Pradesh, East Madhya Pradesh, Vidarbha, Saurashtra & Kutch, Coastal Andhra Pradesh & Yanam and Konkan & Goa and at isolated places over West Madhya Pradesh and Telangana and near normal over rest parts of the country. Yesterday, the Highest maximum temperature of 36.2°C was reported at Punalur(Kerala & Mahe) over the country.

Weather Warning during the next 5 days (IMD)

- 07 February (Day 1): Cold Day to Severe Cold Day conditions in isolated pockets very likely over East Uttar Pradesh and Cold Day conditions in isolated pockets over West Uttar Pradesh. Dense to very Dense Fog in some pockets very likely over East Uttar Pradesh and Dense Fog in isolated pockets over West Uttar Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 08 February (Day 2): Cold day conditions in isolated pockets very likely over East Uttar Pradesh. Dense Fog in isolated pockets very likely over Uttar Pradesh, Bihar, Odisha, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 09 February (Day 3): Thunderstorm accompanied with lightning & hail at isolated places very likely over West Uttar Pradesh and with lightning at isolated places over Jammu, Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, East Uttar Pradesh, East Madhya Pradesh and Chhattisgarh.
- 10 February (Day 4): Thunderstorm accompanied with lightning at isolated places very likely over Jharkhand and Gangetic West Bengal.
- 11 February (Day 5): No Weather Warning.
- The weather outlook for seven days i.e., 07 Feb to 15 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)

Himachal Pradesh

Weather condition:

The maximum temperature ranged between 14.0 to 17.5 °C which was above normal by 0.2to 2.6 °C and minimum temperature ranged between 3.0 to 5.0 °C which was below normal 0.4 to 2.4 °C, respectively. 33.8 mm rainfall was received during the week against the normal of 17.4 mm. The relative humidity varied between 36-97 % and sunshine

hours between 0.0-9.5 hrs/day with variable sky conditions (Octa 2-8). The evaporation rate varied 1.3-2.3 mm per day.

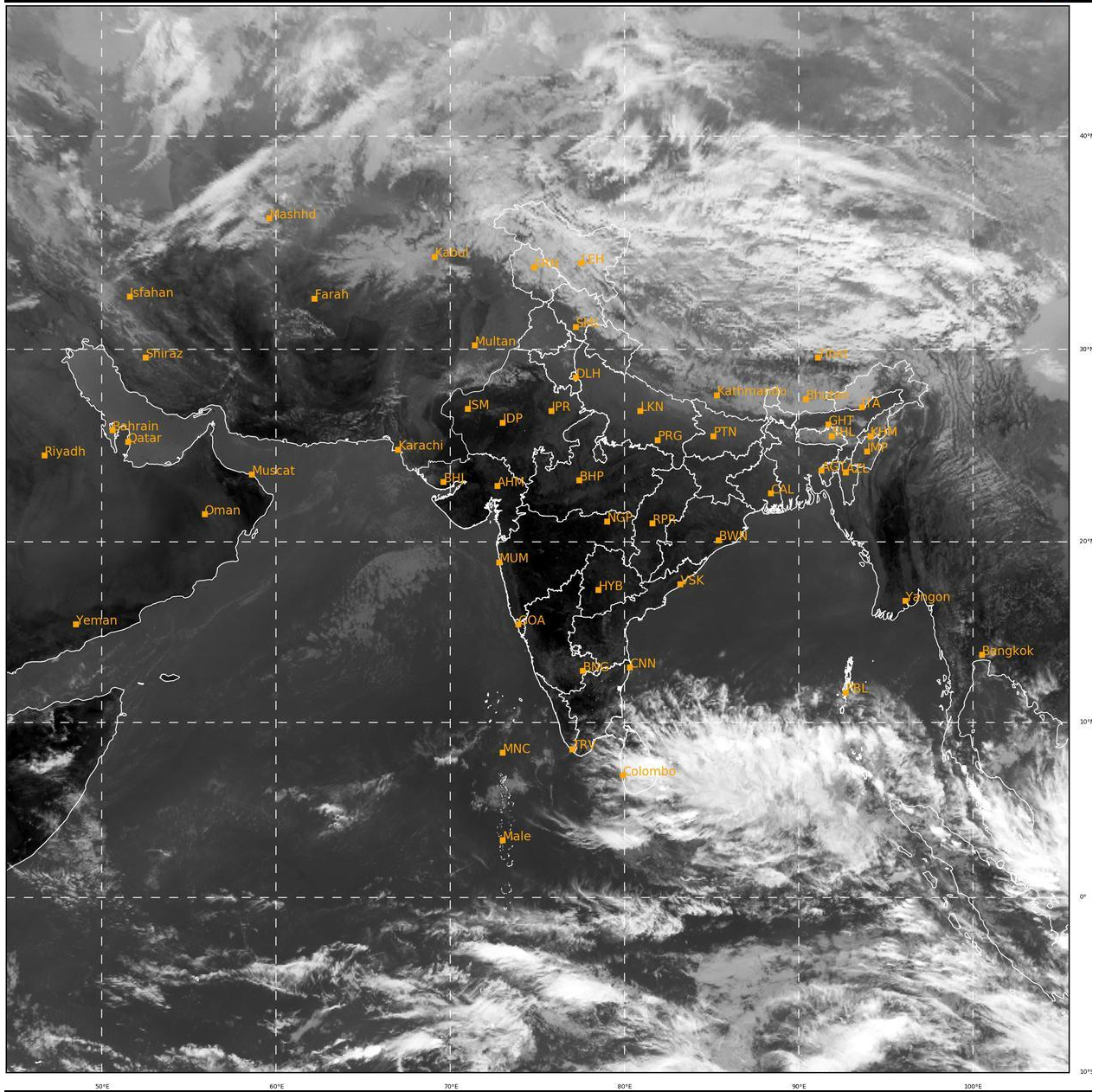
Contingency measure:

- Rabi Crops: Wheat: In wheat crop where weeds are 2-3 leaves stage, spray isoproturon @ 70 g or Vesta @ 16 g per 30 litres of water in one kanal for the control of weeds.
- Storage of Grains: Grains should be properly dried to right moisture level before storing. Godowns should be properly cleaned by removing all the grains and other storage matter of previous crop.
- Mustard: Thinning and weeding is recommended in timely sown mustard crop. Keeping in view of relative humidity farmers are advised for monitoring of mustard crop against attack of white rust. If infection is high than spraying of Dithane - M -45 @ 2 gram/ litre of water of water is advised. Keeping in view of weather, farmers are advised for monitoring of mustard crop against aphid attack.
- Fodder Crops: Intercultural operations on already sown berseem, lucerne and oats for fodder of Rabi season also advised. The lantana weeds in the grasslands may be cut so that regenerated growth during September can be sprayed with 1% glyphosate for its control.
- Vegetable Crops: Add mulch material in space between two rows of vegetables crops for conservation of soil moisture and maintaining the soil temperature.
- Onion & Garlic: Sowing of garlic and onion is advised. Farmers are advised to monitor their fields regularly. Spray of Imidacloprid 17.8 % SC@ 1.0 ml/3 lit of water is recommended against white flies and other sucking pests in all crop and vegetables when sky is clear.
- Radish & Turnip: Thinning of turnip, carrot and radish is advised. Maintain a plant to plant distance of 7 -10 cm.
- Cabbage & Cauliflower: Advised to complete transplanting of seedlings of cabbage, cauliflower, knoll khol and broccoli are advised. Mix well rotten FYM prior to transplanting. The downy mildew is expected in cruciferous vegetables, for control spray redomil M -Z @ 25 g per litres of water at 15 days interval.
- Potato: Farmers are advised to start earthing -up in potato if crop has attained a height of 15 -22 cm. If so required, the practice may be repeated after 15 days . Due to high relative humidity, infection of blight may occur in potato and tomato. Constant monitoring is advised. If symptoms appears than spray of Carbandizam @ 1.0 gm / litre of water or Dithane - M -45 @ 2.0 gm / litre of water is recommended.

- Poly House Agriculture: Advised tomato, cucumber and capsicum sowing and transplanting. For control of powdery mildew, aphids and spodoptera spray recommended chemicals. Keep yellow sticky trap in polyhouse and after transplanting drench plant with imidachlorpid. Leaf spot/blight is expected in shimla mirch and tomato for control spray tilt 1ml per liters of water.
- Tea: Training, skiffing and cleaning work can be completed in the tea orchards. Do lopping of the tree in the tea orchards to have more sunlight. The skiffed material may be used to prepare compost so that it could be applied in next season.
- Livestock: Ecto-parasite attack is expected in this weather for control spray Butox @ 2 ml per litre in cowshed Give mixture of hay & green fodder. The weather is suitable for the attack of pink eye disease in newly born calves, for control prepare the solution of 1% boric acid in boiled water and wash eyes at regular interval of three hours. Give mixture of hay & green fodder. Advised not to allow animals to eat lantana these days. Dry bedding may be provided to save the animals from cold. Young calves must be kept in the sheds during nights.
- Poultry: Make sure to deworm your older flocks every month against round-worms. Ensure proper ventilation in poultry houses. Replace the poultry houses with fresh litter and keep the houses clean and ensure drinking water to the birds. For precautionary measures spray formaline 40% @ 1litre in 9 litres of water in outside or surrounding of farm. Provide vitamin A and vitamin B-complex with water. Ensure proper space for egg laying of birds and provide 14- to 16 hours light including day light. Normal feeding schedule should be continued and add mineral in the diet if stress is seen.
- Mushrooms: Dingri can be sown in closed room, maintain temperature of 25-28 degree Celsius and relative humidity of 80-85 % for good crop. Advised to fill compost bags with span for button mushrooms.
- Horticulture: Keep the basins of the plants free from weeds. The new growth appearing below bud union may be cut. If a termite outbreak appears on the trees, spray Chlorpyrifos 20 EC @ 3ml/l. Monitor foliar pest on plants of Citrus species. Spray Chlorantraniliprole 18.5SC @ 0.4 ml/l or lambda-cyhalothrin 4.90CS @0.8 ml/l for pomegranate butterfly. Advised recommended spray of chemicals for control of citrus canker. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area. Advised planting of strawberry. Wrapping of plastic sheets around mango trunk should be done for preventing climbing of young mealy bugs. Apply grease to seal any cracks in the polythene sheets.If the stem borer problem is there in spray insecticide or control them with applying kerosene oil. Keep the basins of the

plants free from weeds. Prepare the pits for planting the winter plants like peacunnut, walnut, almond plum and peach. In peach gum is coming out from tree trunk, for control bordeaux paint may be applied in the affected area.

- Fruit Trees: Sowing of mango, litchi, guava, papaya, pecanut and kagzi lime is recommended under these weather conditions. Air layering of litchi, guava, kagzi lime and lemon is recommended. Side veneer grafting in mango and inverted T-budding in citrus is recommended. Transplanting of seedlings of rough lemon (Khatti) in the nursery beds, if not done during July. Weeding in nursery is recommended.



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IMD,DELHI

Figure: 1. Latest available satellite picture as on 07 Feb 2022 at 1357 Hrs (IST). (Source: IMD).

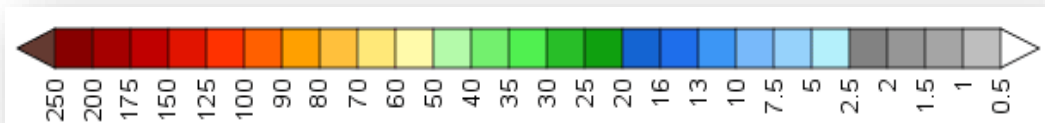
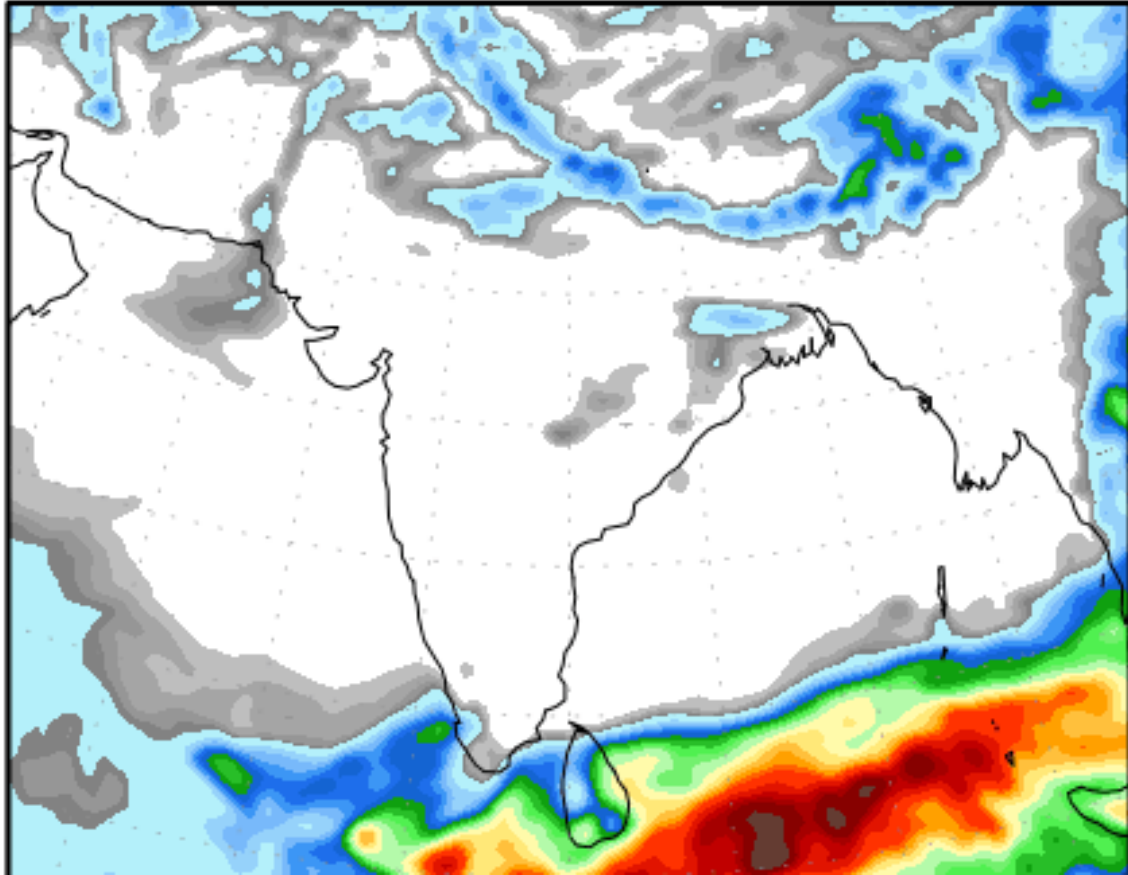


Figure:2. Precipitation forecast for 07 Feb to 15 Feb 2022 (Source: NOAA NCEP).

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