

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 18 January 2022

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A fresh Western Disturbance likely to affect Northwest India from 21st January, 2022. Under its influence: i) Scattered to widespread light/moderate rainfall/snowfall very likely over Western Himalayan Region during 21st to 23rd January. Isolated heavy rainfall/snowfall very likely over Himachal Pradesh on 22nd January. ii) Scattered to widespread light/moderate rainfall very likely over Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, north Rajasthan and Isolated to scattered rainfall over Madhya Pradesh during 21st to 23rd January with maximum intensity on 22nd January. Isolated thunderstorm with lightning very likely over the region on 22nd January, 2022.
- Scattered to fairly widespread light/moderate rainfall over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during 20th-22nd January.
- Fog, Cold Day and Cold wave:
- Minimum temperatures are likely to rise by 2-4°C over Northwest India during next 3-4 days. .
- Dense to Very Dense Fog in night/morning hours very likely in isolated pockets over Rajasthan, Uttar Pradesh, north Madhya Pradesh, Bihar, Odisha and Sub-Himalayan West Bengal during next 2 days.
- Cold Day to Severe Cold Day Conditions in some parts very likely over Uttar Pradesh and Bihar during next 3 days; Cold Day Conditions in some parts very likely over north Madhya Pradesh during next 2 days and over Punjab, Haryana, Chandigarh, Delhi and north Rajasthan 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 a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad; at isolated places over Haryana, Himachal Pradesh, Konkan & Goa, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

- Cold Day to Severe Cold Day conditions in many parts of Uttar Pradesh and in some parts over Madhya Pradesh, Rajasthan, Haryana & Chandigarh & Delhi and Cold Day conditions in some parts of Punjab and isolated pockets over Bihar.
- Fog observed (at 0830 hours IST of today): Dense to Very Dense fog in many parts of East Uttar Pradesh and in some parts of north Madhya Pradesh; Moderate to Dense fog in many parts of West Uttar Pradesh and in isolated pockets of East Rajasthan and Bihar and Moderate fog in isolated pockets over north Jharkhand, north West Bengal and Tripura.
- Minimum Temperature Departures (as on 18-01-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Saurashtra & Kutch; above normal (1.6°C to 3.0°C) at many places over Uttarakhand and Konkan & Goa; at a few places over Himachal Pradesh, Coastal Andhra Pradesh & Yanam, Telangana, Rayalaseema and Kerala & Mahe; at isolated places over Haryana, Chandigarh & Delhi, Punjab, Madhya Maharashtra, Tamil Nadu, Puducherry & Karaikal and Andaman & Nicobar Islands. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Odisha, East Uttar Pradesh and East Madhya Pradesh; at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at many places over Jharkhand; at a few places over East Rajasthan, West Uttar Pradesh, Bihar and Gangetic West Bengal and near normal over rest parts of the country. Today, the Lowest minimum temperature of 2.6°C is reported at Kanpur & Fursatganj (East Uttar Pradesh) over the plains of the country.
- Maximum Temperature Departures (as on 17-01-2022): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at a few places over Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Kerala & Mahe; at a few places over Konkan & Goa; at isolated places over Saurashtra & Kutch and Tamilnadu, Puducherry & Karaikal. They were markedly below normal (- 5.0°C or less) at most places over Punjab; at many places over Haryana, Chandigarh & Delhi, East Rajasthan and Uttar Pradesh; at a few places over West Rajasthan East Madhya Pradesh; at isolated places over Madhya Pradesh; appreciably below normal (- 3.1°C to -5.0°C) at most places over Bihar; at many places over Gangetic West Bengal and Madhya Maharashtra; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh; at many places over Odisha, Uttarakhand, Telangana, Marathwada, North Interior Karnataka; at a few places over Himachal Pradesh and Andaman & Nicobar Islands; at isolated places over Costal Andhra Pradesh & Yanam and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 36.0°C reported at Punalur(Kerala)

Weather Warning during the next 5 days (IMD)

- 18 January (Day 1): Cold day to severe cold day conditions in most parts very likely over Uttar Pradesh and in isolated pockets over Bihar and cold day conditions in some parts over Punjab, Haryana, Chandigarh, Delhi, Madhya Pradesh and north Rajasthan. Cold wave conditions in isolated pockets very likely over Uttar Pradesh. Dense to very dense Fog in isolated pockets very likely over Uttar Pradesh, Bihar and dense Fog in isolated pockets over Uttarakhand, Rajasthan, north Madhya Pradesh, Odisha, Sub-Himalayan West Bengal, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 19 January (Day 2): Cold day to severe cold day conditions in some parts very likely over Uttar Pradesh; in isolated pockets over Bihar and cold day conditions in isolated pockets over Madhya Pradesh. Dense to very dense Fog in isolated pockets very likely over Uttar Pradesh, Bihar and dense Fog in isolated pockets over East Rajasthan, north Madhya Pradesh, Odisha and Sub-Himalayan West Bengal.
- 20 January (Day 3): Cold day conditions in isolated pockets very likely over Uttar Pradesh and Bihar. Dense Fog in isolated pockets very likely over Bihar. Strong wind (speed 40-50 kmph gusting to 60 kmph) very likely over Northwest & adjoining Northeast Arabian Sea and along & off north Gujarat coast. Fishermen are advised not to venture into these areas.
- 21 January (Day 4): Thunderstorm accompanied with lightning & hail at isolated places likely over East Rajasthan and West Madhya Pradesh. Strong wind (speed 40-50 kmph gusting to 60 kmph) likely over North Arabian Sea and adjoining Gujarat coast. Fishermen are advised not to venture into these areas.
- 22 January (Day 5): Heavy rainfall/snowfall at isolated places likely over Himachal Pradesh. Thunderstorm accompanied with lightning at isolated places likely over Punjab, Haryana, Chandigarh & Delhi, north Rajasthan, West Uttar Pradesh and Madhya Pradesh.
- The weather outlook for seven days i.e., 18 Jan to 26 Jan 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)

Rajasthan

Weather condition:

State: Cold wave revealed in the state during this week. Whereas lowest temperature during night reported in Mount Abu (-3.0°C), Churu (10.6 °C), Jobner (7.0 °C), Fatehpur (-1.2°C) and Bhilwara (7.0°C) during this week. At Centre: : At the Centre: Maximum temperature ranged between 23.6°C to 18.5°C with mean 20.9°C which was 2.5oC below normal and minimum temperature ranged between 9.5°C to 0.1°C with mean 3.9°C which was below 1.7°C to normal. Wind velocity ranged between 3.7 to 1.9 with mean 2.8 and sunshine hours 9.4 to 8.0 with mean 8.8 hours. Mean evaporation 0.8 mm.

Contingency measure:

- In the period of pandemic COVID spread, farmers are advised to wear mask on face and hand should be washed with soap for 2 minutes at regular interval and maintain social distancing while working in the field.
- Late sown mustard is at flowering stage, there is chances of increase aphid infestation in mustard. Farmers are advised to installed 12-15 yellow sticky strip /ha. Or spray of diamethoate 30 E.C. 875ml/ha.
- For the control of the pod borer in the gram crop, installation of 5-6 Pheromone traps per acre with distance of 50 m. 4-5 per acre T shaped bird perches in and around crop field to be installed or spray of quinolphos 25 E.C. 1 litre in 50 litre water per ha at the time of flowering should be done.
- Looking to cold waves in the state, pea crop should be sprayed with 0.1 % sulphuricacid or apply irrigation for the protection against frost. Spraying of 2 % urea is advised for proper growth of pods in the pea crop. Foliar spray of 20 kg urea per acre may be done to maintain foliage health in fenugreek.
- Appropriate vaccination with the advice of a veterinarian to protect animals from FMD, Haemorrhagic Septicaemia commonly known as Gal-Ghotu, Black Quarter diseases.
- In present weather conditions constant monitoring of timely sown onion crop against attack of thrips and infection of purple blotch should be done. Need based spraying of Diethane M -45 @ 3 grams per litre of water with sticky material (Tipol 1.0 gram /litre) are advised.

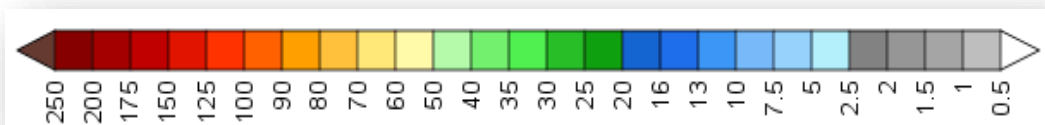
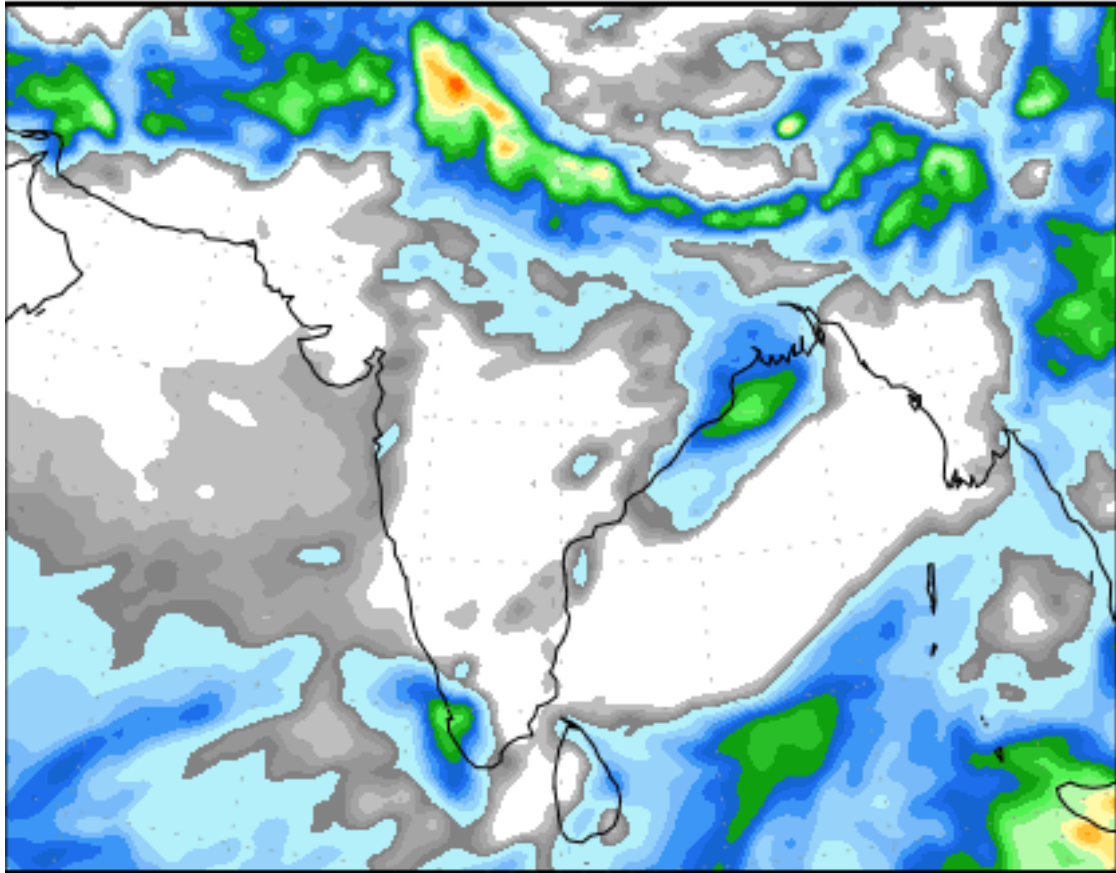


Figure:2. Precipitation forecast for 18 Jan to 26 Jan 2022 (Source: NOAA NCEP).

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