

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 15 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance seen as a cyclonic circulation over Jammu & neighbourhood at 3.1 km above mean sea level. A fresh Western Disturbance as a cyclonic circulation lies over Afghanistan & neighbourhood between 3.1 & 5.8 km above mean sea level. Under their influence:
 - (i) Light to moderate rainfall/snowfall at isolated places very likely over Jammu, Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during next 3 days and over Uttarakhand during 16th-17th December.
 - (ii) Isolated light rainfall likely over northern parts of Punjab, Haryana and West Uttar Pradesh on 16th December.
- Light to moderate rainfall at isolated/scattered places very likely over Tamil Nadu-Puducherry-Karaikal, Andaman & Nicobar Islands and isolated rainfall over Kerala-Mahe and during next 5 days.
- Dry weather very likely over remaining parts of the country during next 5 days.
- No significant change in minimum temperatures over Northwest & adjoining Central India during next 2 days and fall by 2-3°C thereafter.
- Cold Wave in isolated pockets very likely over Punjab till 20th and over Haryana, Chandigarh and north Rajasthan from 18th to 20th December, 2021.
- Dense fog in isolated pockets very likely over Punjab, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura in the morning hours of 16th & 17th December.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Tamil Nadu, Puducherry & Karaikal and Lakshadweep and at isolated places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad, Coastal Andhra Pradesh & Yanam, Rayalaseema, Coastal & South Interior Karnataka and Kerala & Mahe.

- Fog observed (at 0830 hrs IST of today): Dense fog in isolated pockets over Punjab; Moderate fog in isolated pockets over Jharkhand and shallow fog in isolated pockets over Delhi, East Uttar Pradesh, East Rajasthan, Bihar and Assam & Meghalaya.
- Minimum Temperature Departures (as on 15-12-2021): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Madhya Maharashtra; at a few places over West Uttar Pradesh and Marathawada; at isolated places over East Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka and Rayalaseema; at many places over Coastal & South Interior Karnataka; at a few places over Andaman & Nicobar Islands, Vidarbha, Tamil Nadu, Puducherry & Karaikal and Kerala & Mahe and at isolated places over East Uttar Pradesh, Coastal Andhra Pradesh & Yanam, Konkan & Goa and Lakshadweep. They are appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir, Ladakh, Gilgit, Baltistan, Muzaffarabad and Saurashtra & Kutch; below normal (-1.6°C to -3.0°C) at many places over Uttarakhand and Bihar; at a few places over Gangetic West Bengal, Himachal Pradesh and West Rajasthan; at isolated places over Haryana, Chandigarh & Delhi and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.0°C is reported at Amritsar (Punjab) over the plains of the country.
- Maximum Temperature Departures (as on 14-12-2021): Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at a few places over Vidarbha, Coastal Andhra Pradesh & Yanam and Kerala & Mahe. They were below normal (-1.6°C to -3.0°C) at most places over South Interior Karnataka; at many places over East Uttar Pradesh; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, Himachal Pradesh, Rajasthan, West Uttar Pradesh, Gujarat state, Odisha, Gangetic West Bengal, Telangana, North Interior Karnataka, Konkan & Goa and Tamil Nadu, Puducherry & Karaikal; at isolated places over Madhya Pradesh, Madhya Maharashtra and Andaman & Nicobar Islands and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.8°C reported at Alapuzha (Kerala).

Weather Warning during the next 5 days (IMD)

- 15 December (Day 1): Dense fog very likely in isolated pockets over Punjab, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold Wave conditions very likely in isolated pockets over Punjab.

- 16 December (Day 2): Dense fog very likely in isolated pockets over Punjab, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura. Cold Wave conditions very likely in isolated pockets over Punjab.
- 17 December (Day 3): Cold Wave conditions very likely in isolated pockets over Punjab, Haryana, Chandigarh and north Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) very likely over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 18 December (Day 4): Cold Wave conditions likely in isolated pockets over Punjab, Haryana, Chandigarh and north Rajasthan. Squally weather (wind speed 40-50 kmph gusting to 60 kmph) likely over Equatorial Indian Ocean & adjoining Southwest Bay of Bengal. Fishermen are advised not to venture into these areas.
- 19 December (Day 5): Cold Wave conditions likely in isolated pockets over Punjab, Haryana, Chandigarh and north Rajasthan.
- The weather outlook for seven days i.e., 15 Dec to 23 Dec 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)

West Bengal

Weather condition:

Weather conditions during the 49th week at Mohanpur, West Bengal: Maximum temperature: 21.2 to 28.7°C, Minimum temperature: 15.0 to 20.0°C, bright sun shine hours: 0.0 to 5.4 hours, Morning-time relative Humidity: 89 to 100%, after noon-time R.H: 54 to 100%, weekly total pan evaporation: 4.8 mm, total weekly rainfall: 140.9 mm and average daily wind speed is 0.28 km/h.

Contingency measure:

- Lentil: Drain the excess water immediately. For leaf spot, leaf blight, root rot, wilt etc spray Carbendazim (1 g / lt water) and Tebuconazole (1.5 ml per lt of water) may be applied at 1 week interval.
- Mustard: Drain the excess water immediately. For leaf spot, leaf blight, root rot, wilt etc spray Carbendazim (1 g / lt water) and Tebuconazole (1.5 ml per lt of water) may be applied at 1 week interval.
- Cabbage: Drain the excess water immediately. Spraying with fungicide Mancozeb (2.5 gm/ lt water) with Carbendazim (1 g / lt water), Azoxystrobin (1

ml/ lt water) followed by Copper Oxychloride (4 gm/ lt water) at 10 days interval is recommended.

- Potato: Drain the excess water immediately . Spraying with fungicide Mancozeb (2.5 gm/ lt water) with Carbendazim (1 g / lt water) , Azoxystrobin (1 ml/ lt water) followed by Copper Oxychloride (4 gm/ lt water) at 10 days interval is recommended.

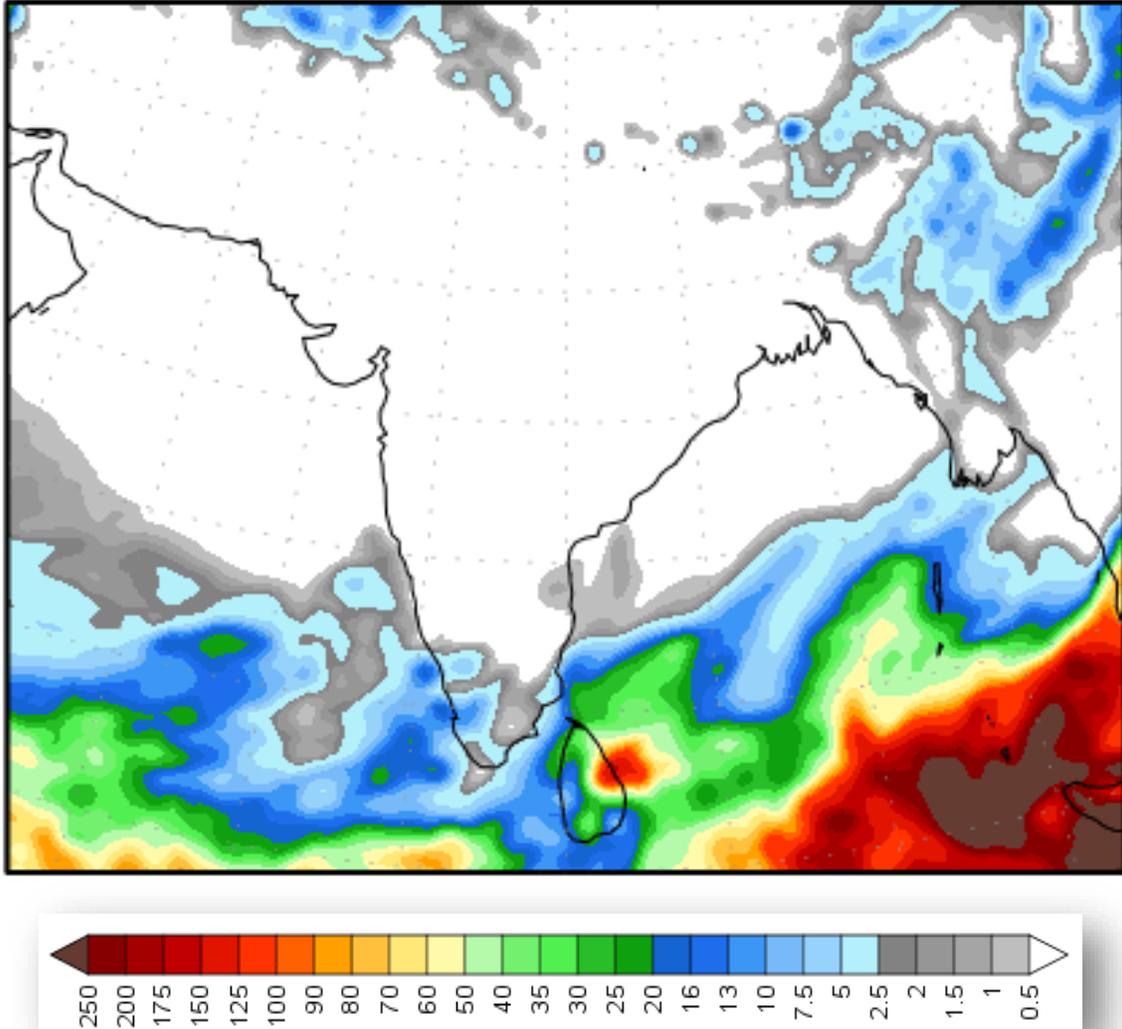


Figure:2. Precipitation forecast for 15 Dec to 23 Dec 2021 (Source: NOAA NCEP).

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