

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 11 January 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The current Western Disturbance which is lying over Afghanistan & adjoining Central Pakistan along with its induced cyclonic circulation is very likely to cause fairly widespread to widespread rain/snow over Western Himalayan Region and isolated to scattered rainfall over Punjab and Haryana, Chandigarh & Delhi during next 2 days. Peak activity is likely tomorrow, when heavy rain/snow may occur at isolated places over Jammu & Kashmir and Himachal Pradesh. Isolated dense fog likely to occur over parts of northwest India in the morning hours of 13th and 14th January.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rainfall observed (from 0830 hours IST yesterday to 0830 hours IST of today): Rain/snow occurred at many places over Jammu & Kashmir and at isolated places over Himachal Pradesh. Rain/Thundershowers occurred at isolated places over Andaman & Nicobar Islands & Sikkim. Rainfall recorded at 0830 hours IST of today(1cm or more); Kupwara and Pahalgam-1 each. Dense to very Dense fog observed at Isolated places over West Uttar Pradesh; Moderate fog observed at isolated places over Delhi, East Uttar Pradesh, Bihar and south Coastal Andhra Pradesh at 0830 hours IST of today. Visibility: Meerut-25M, Bareilly-50M Delhi (SFD), Agra, Sultanpur & Patna-500 M each.
- Maximum temperature departures as on 10-01-2019: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over West Rajasthan, interior Karnataka and Rayalaseema; at many places over Saurashtra & Kutch and Lakshadweep; at a few places over Andaman & Nicobar Islands, Konkan & Goa, Madhya Maharashtra and Tamilnadu & Puducherry and at isolated places over Gujarat Region and Kerala. They were appreciably below normal (-3.1°C to -5.0°C) at many places over Himachal Pradesh; below normal (-1.6°C to -3.0°C) at most places over Jammu & Kashmir; at many places over West Madhya Pradesh; at a few places over East Madhya Pradesh; at isolated places over Assam & Meghalaya, West Bengal & Sikkim, Bihar Odisha and Chhattisgarh and near normal over rest parts of the country. Yesterday, the highest

maximum temperature of 36.2°C was recorded at Karwar (Coastal Karnataka) over the plains of the country.

- Minimum temperature departures as on 11-01-2019: Minimum temperatures are appreciably below normal (-3.0°C to -5.0°C) at many places over Vidarbha; at a few places over East Madhya Pradesh and Bihar; and at isolated places over Gangetic West Bengal, Odisha, West Madhya Pradesh and Kerala; below normal (-1.6°C to -3.0°C) at most places over Chhattisgarh, Jharkhand and West Madhya Pradesh; at a few places over Uttar Pradesh, Coastal & South interior Karnataka, Konkan & Goa and Lakshadweep; and at isolated places over Saurashtra & Kutch and Sub-Himalayan West Bengal & Sikkim. They are appreciably above normal (3.0°C to 5.0°C) at many places over West Rajasthan; at a few places over Punjab and Himachal Pradesh; above normal (1.6°C to 3.0°C) at most places over Jammu & Kashmir; at many places over Andaman & Nicobar Islands; and at isolated places over Uttarakhand, Tamilnadu & Puducherry and Assam & Meghalaya near normal over rest parts of the country. the lowest minimum temperature of 3.0°C are recorded at Khajuraho (East Madhya Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 11 January (Day 1): Dense fog at isolated places in the morning hours very likely over West Uttar Pradesh and Assam & Meghalaya.
- 12 January (Day 2): Heavy Rain/Snow at isolated places very likely over Jammu & Kashmir and Himachal Pradesh. Dense fog at isolated places in the morning hours very likely over Punjab, Haryana, Chandigarh and north Rajasthan.
- 13 January (Day 3): Dense fog at isolated places in the morning hours very likely over Punjab,
Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh.
- 14 January (Day 4): No Weather Warning.
- 15 January (Day 5): No Weather Warning.
- The weather outlook for the period of seven days *i.e* 11 to 19 January 2019 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Jammu & Kashmir, Himachal Pradesh and Andaman & Nicobar Islands. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Gujarat

Weather condition:

Dry weather prevailed in Gujarat state during past few days. Daily maximum temperature ranges from 24 to 27 °C and minimum temperature ranges from 8 to 11 °C, respectively.

Contingency measure:

- Wheat: Tillering/ Booting:Termite:- To control termite apply chlorpyrifos 20 EC 2 to 2.5 lit./ha with irrigation water. Stem Borer: If wheat stem borer infestation observed spray carbaryl 50% WP 40 gm or Quinalphos 25 EC 20 ml spray in to 10 lit water.
- Mustard:Flowering/ pod development : Aphid: Apply 500 gm (5% arc) neem seed powder or 20 ml (1EC) to 40 ml (0.15 EC) neem based readymade solution in 10 liter of water in evening time. Maize: post veg. growth : Maize stem borer: Apply methyl-o-demeton 25 EC 10 ml or carbaryl 50% W.P. 40 gm in 10 lit. of water after 20 - 25 days. Pigeon pea: Pod development : Heliothis and Pod fly : Apply quinalphos 25 Ec 20 ml in 10 lit of water on pods to control pod fly.
- Potato: Vegetative: Early blight: - Three foliar spray of Mencozeb 75gm WP 20 gm in 10 lit of water at 10 days interval starting from vegetative stage. Application of light irrigation in furrow and flatbed sown field. Castor: Reproductive: Borer: Apply apply chlorpyrifos 20 Ec 20 ml or Quinalphos 25 Ec 20 ml in 10 lit of water.
- Vegetables: Flowering/ Reproductive : For the control of White fly/Aphid Spray neem seed extract 500 ml or neem seed oil 50 ml in 10 liter of water at 15 days interval (4 sprays) or acetamiprid 20 % SP@ 5.0 gm / 10 lit of water at 15 days interval.
- Chilli: Growth: Thrips: Triazophos 40EC or Acephate 75SP 10 ml per 10 lit water should be sprayed.
- Cattle: Keep animal shed hygienic and clean to avoid flies and mosquitoes. Keep indoor at night time. Protect from cold wind. Give warm drinking water thrice in a day. Provide 6-8 kg good quality dry roughage with 15-20 kg green fodder to the animals. FMD vaccination should be done.

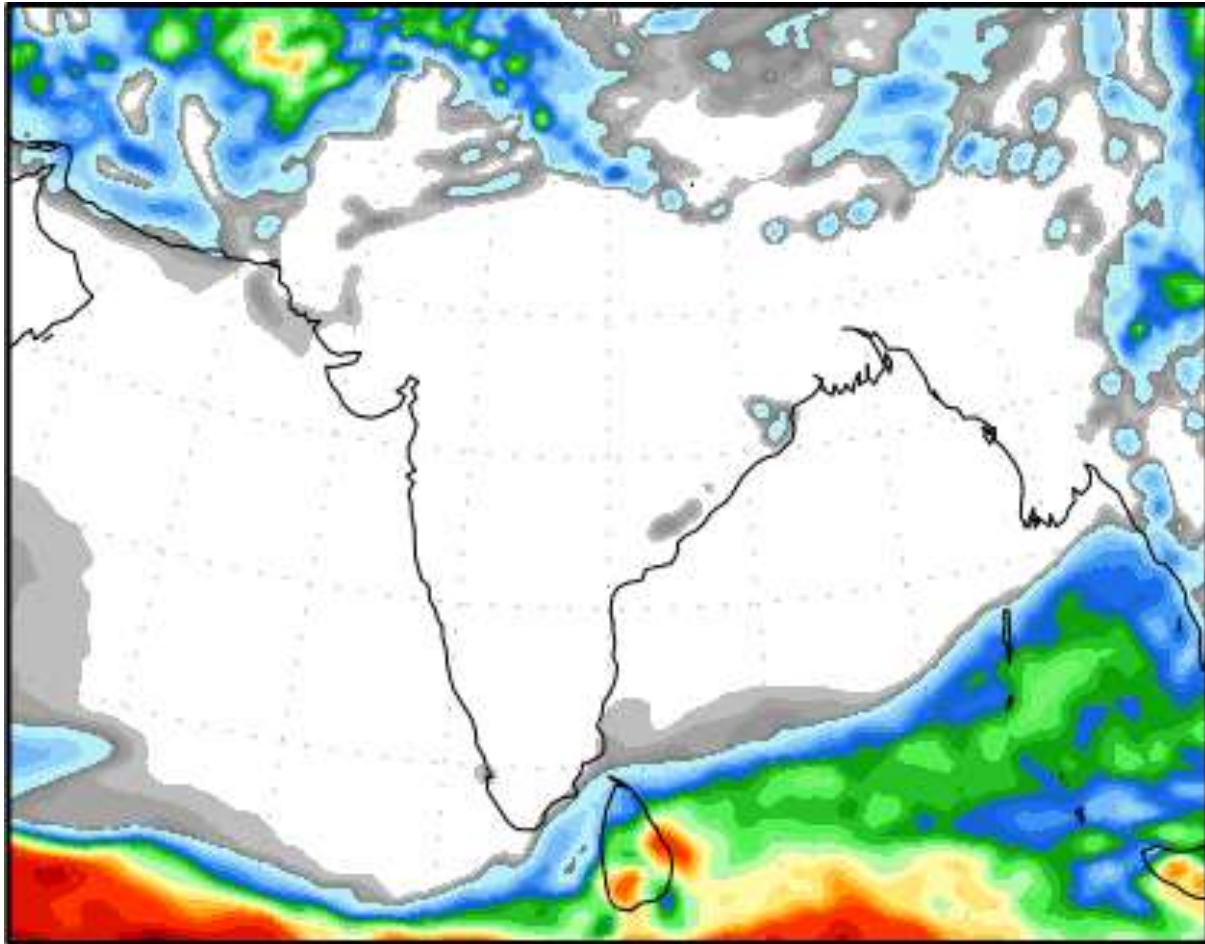


Figure: 2. Precipitation forecast for 11 to 19 January 2019 (Source: NOAA NCEP).