

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 05 February 2019

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The intense Western Disturbance which is approaching the Indian region now lies over Afghanistan and neighbourhood. Under its influence, an induced cyclonic circulation has formed over West Rajasthan. This would move over to Punjab & adjoining Haryana by 8th. In association with this system, there would be high moisture feeding from Arabian Sea over northwest India specifically over Western Himalayan Region (WHR) (Jammu & Kashmir, Himachal Pradesh and Uttarakhand) mainly during 6th to 8th February, 2019. Strong wind convergence at mid & upper tropospheric levels over WHR and wind confluence at lower levels over plains of northwest India would also occur during the same period.
- Widespread rain/snow with isolated heavy to very heavy falls are very likely over Jammu & Kashmir and Himachal Pradesh on 6th & 7th February and over Uttarakhand on 7th February. Widespread rainfall with isolated heavy falls are also likely over the northern parts of Punjab, Haryana, Chandigarh and West Uttar Pradesh on 7th February. Thunderstorms accompanied with hailstorms at isolated places are likely over western Himalayan region, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh and north Rajasthan during 5th to 7th; over North Madhya Pradesh on 7th; north Chhattisgarh and Jharkhand, on 8th; Bihar on 7th & 8th and Sub-Himalayan West Bengal & Sikkim, on 8th and 9th and over Assam & Meghalaya and Arunachal Pradesh on 9th February.
- The images showing the latest satellite picture in figure. 1.

Main Weather Observations (IMD)

- Rain/thundershowers observed (from 0830 hrs IST of yesterday to 0830 IST of today): Rain/Snow occurred at isolated places over Jammu & Kashmir. Rain/thundershowers observed at isolated places over Tamilnadu & Puducherry.
- Dense to very dense fog observed at isolated places over Haryana, Uttar Pradesh and Uttarakhand.; Dense fog at isolated places over West Uttar Pradesh; The visibility observed at 0830 hrs IST of today; Karnal, Ambala, Bareilly and Pantnagar- 25 M each;-Barabanki and Hardoi-50 M.

- Maximum temperature departures as on 04.02.2019: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over Arunachal Pradesh and Jharkhand; at many places over Uttarakhand, Assam & Meghalaya, Saurashtra & Kutch and Konkan & Goa; at a few places over Gangetic West Bengal and at isolated places over Himachal Pradesh and Madhya Pradesh; above normal (1.6°C to 3.0°C) at most places over Gujarat Region; at many places over West Rajasthan, Odisha, Coastal Karnataka, Kerala and Lakshadweep and at a few places over Sub-Himalayan West Bengal & Sikkim. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Uttar Pradesh and below normal (-1.6°C to -3.0°C) at a few places over Jammu & Kashmir and Andaman & Nicobar Islands and at isolated places over Tamilnadu & Puducherry and near normal over rest parts of the country.
- Yesterday, the highest maximum temperatures of 36.7°C was recorded at Kochin (Kerala) over the plains of the country.
- Minimum temperature departures as on 05-02-2019: Minimum temperatures are appreciably below normal (-3.1°C to -5.0°C) at isolated places over Gangetic West Bengal and Odisha and at isolated places over Coastal Andhra Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Telangana and at isolated places over Uttar Pradesh. They are markedly above normal (5.1°C or more) at a few places over Gujarat Region, East Rajasthan and West Madhya Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over East Rajasthan; at a few places over Jammu & Kashmir, Himachal Pradesh, West Rajasthan, Saurashtra & Kutch, Tamilnadu & Puducherry and Kerala and above normal (1.6°C to 3.0°C) many places over Uttarakhand and at a few places over South Interior Karnataka, Madhya Maharashtra, Marathwada, East Madhya Pradesh, Konkan & Goa, Vidarbha and Punjab and near normal over rest parts of the country.
- The lowest minimum temperature of 3.4°C recorded at Lakhimpur Kheri (East Uttar Pradesh) over the plains of the country.

Weather Warning during next 5 days (IMD)

- 05 February (Day 1): Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir and Himachal Pradesh.
- 06 February (Day 2): Heavy rain/snow very likely at isolated places over Jammu & Kashmir and Himachal Pradesh. Thunderstorm accompanied with hailstorm at isolated places very likely over Jammu division of Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and Uttar Pradesh. Strong winds speed reaching 40-50 kmph likely to occur over north Arabian Sea. Fishermen are advised not to venture into this area.

- 07 February (Day 3): Heavy to very heavy rain/snow very likely at isolated places over Jammu & Kashmir, Himachal Pradesh and Uttarakhand. Heavy rain/thundershowers at isolated places very likely over Punjab, Haryana, Chandigarh and West Uttar Pradesh. Thunderstorm accompanied with hailstorm at isolated places likely over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Bihar, north Rajasthan and north Madhya Pradesh. Strong winds speed reaching 40-50 kmph likely to occur over north Arabian Sea. Fishermen are advised not to venture into this area.
- 08 February (Day 4): Thunderstorm accompanied with hailstorm at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Bihar, Jharkhand and north Chhattisgarh. Dense fog at isolated places likely over Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh and North Rajasthan.
- 09 February (Day 5): Thunderstorm accompanied with hailstorm at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya and Arunachal Pradesh. Dense fog at isolated places likely over Punjab, Haryana, Chandigarh & Delhi and West Uttar Pradesh.
- The weather outlook for the period of seven days *i.e* 04 to 11 February 2019 forecasted (*Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>*) rain/thundershower may occur over Jammu & Kashmir, and Tamilnadu & Puducherry. (Fig. 2).

Agricultural activities (AICRPAM-CRIDA)

Chhattisgarh

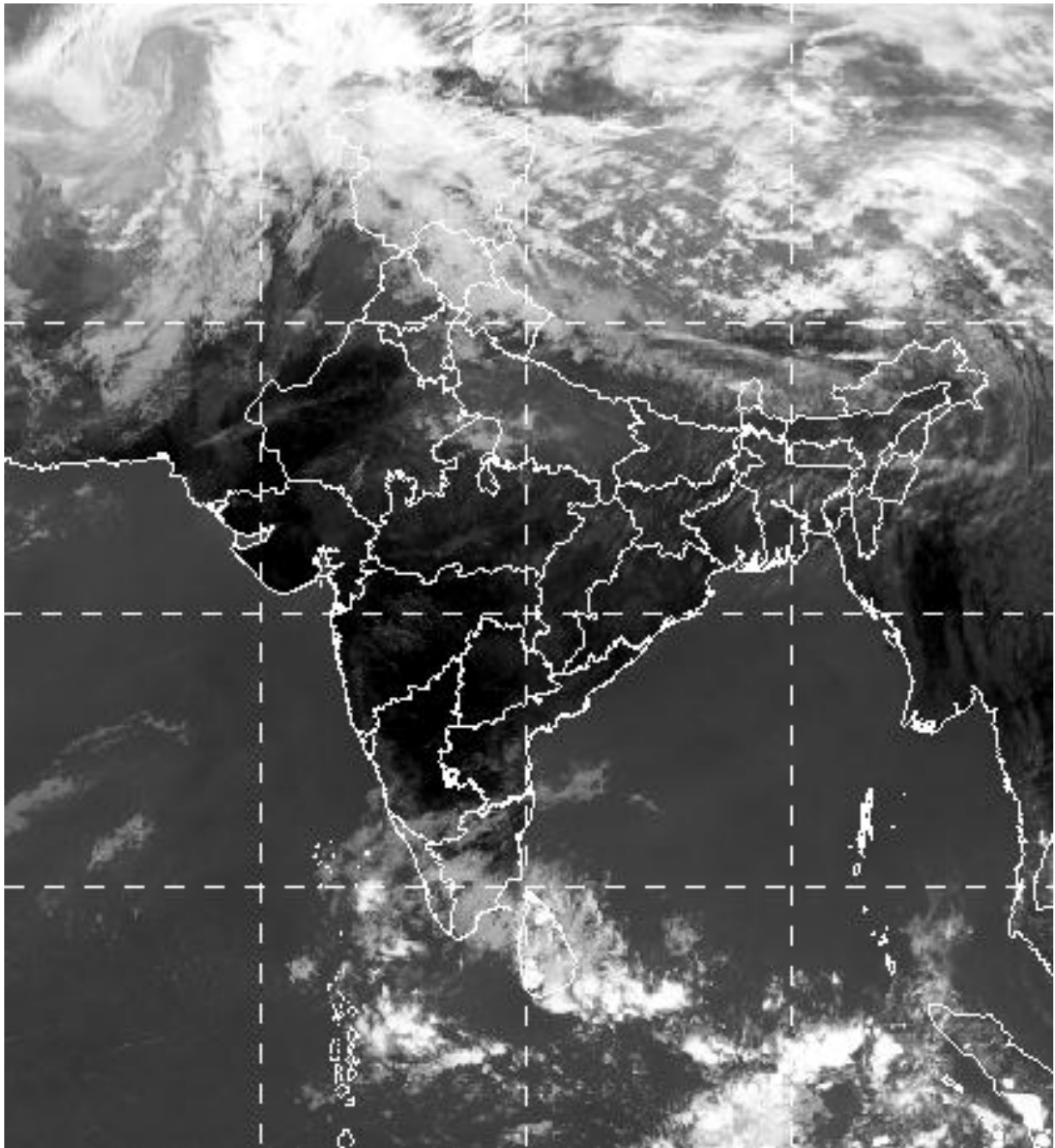
Weather condition:

Dry weather prevailed in Chhattisgarh state during past few days.

Contingency measure:

- General: Summer rice is emerging stage. Therefore, farmers are advice for pre emergence weedicide application on their field for control of weeds. Don't irrigate wilt affected pulses crop. If necessary irrigation should be done through sprinkler.
- To control broad leaved weeds in late sown wheat apply Metasulfuron @ 8 gms +200 liter water at 20-25 day after sowing or spray 2,4-D Na Salt 500 gm per acre. +200 liter water at 25-30 day after sowing.
- If powdery mildew disease is observed in urad and moong crops, then spray Carbendazim @1 gram/liter or Dinocap @1ml/liter water. In case disease symptom again appearing repeat spray after 10 days.

- Looking to the cloudy weather condition which prevailed during past days the incidence of Heliothis in gram is reported from many places and it is likely to increase, with slight increase in maximum and minimum temperature. Hence, farmers are advised to keep keen watch over the crops and adopt integrated pest management practices like light trap, pheromone trap, bird prech etc.
- Vegetables/ Fruit: Late blight of potato is being observed in potato. Farmers are advised for spray of Metalyxyl (1.5 grams) or Cynaxonyl (2 gram) / litre of water. Plucking of flowers should be done in onion.
- Looking to the cloudy weather condition which prevailed during past days aphids in vegetables, fruit and shoot borer in brinjal may occur. Hence, farmers are advised to keep keen watch over the crops and adopt integrated pest management practices like light trap, pheromone trap, bird prech etc. for initial control.
- Animal husbandry: Provide concentrate feed to cattle mixed with dry and green fodder and ensure for feeding enriched diet having protein, carbohydrate, fat, vitamins etc. Green fodder (Berseem and Lucerne) should be dried and HAY should be prepared.
- Keep the chicks in a clear and dry shed. Wooden platform should be scratched properly for maintaining hygiene. For cleanliness use phenols. Save calves from cold (night temperature) and use heater, curtains to save them.



**Figure: 1. Latest available satellite picture as on 05 February 2019 at 0230 Hrs (IST).
(Source: IMD).**

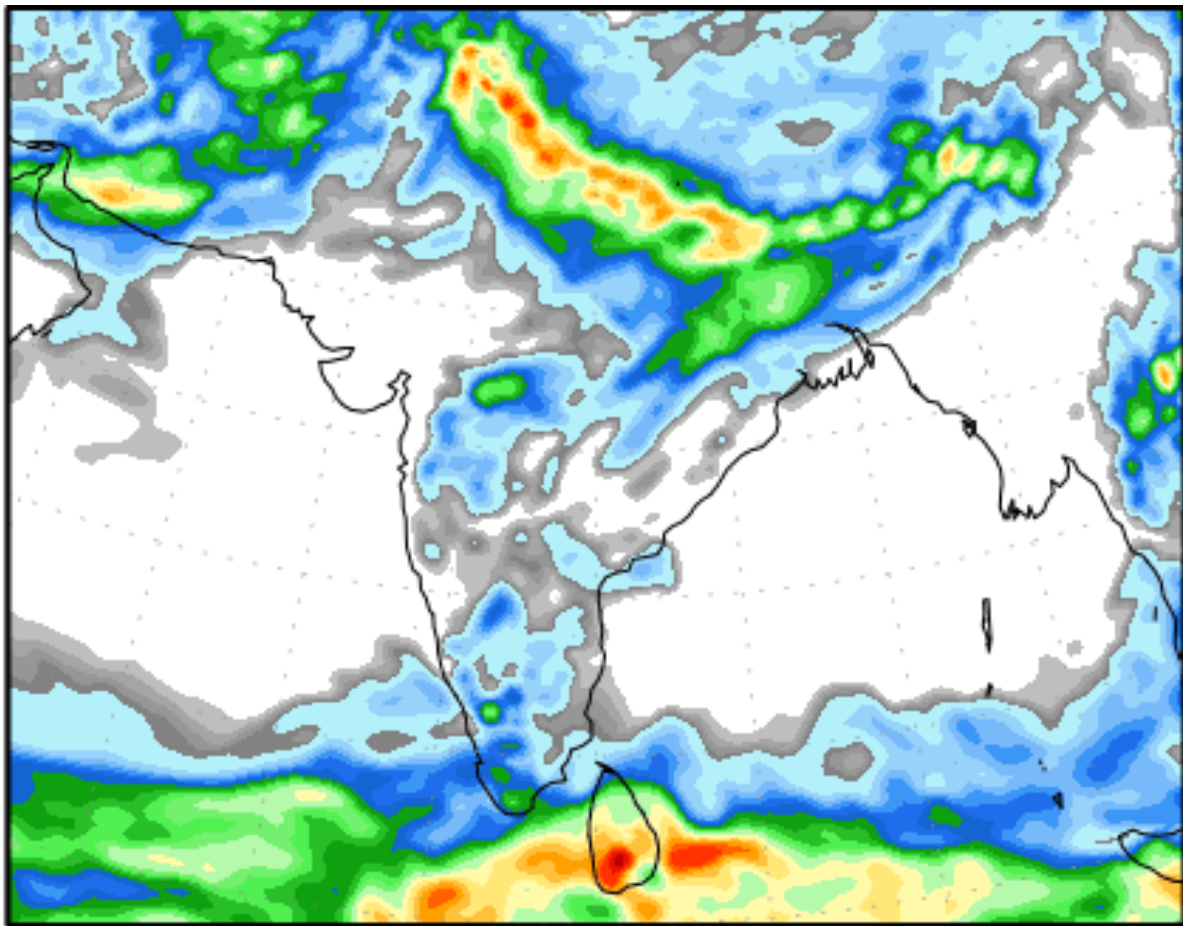


Figure: 2. Precipitation forecast for 05 to 12 February 2019 (Source: NOAA NCEP).