

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 13 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- Light to moderate rainfall at isolated/scattered places very likely over Tamil Nadu-Puducherry-Karaikal, Kerala- Mahe, Lakshadweep and Andaman & Nicobar Islands during next 5 days and south Andhra Pradesh during next 2 days.
- Light to moderate rainfall/snowfall at isolated places very likely over Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad during next 5 days and over Himachal Pradesh on 16th & 17th December.
- Dry weather very likely over remaining parts of the country during next 5 days.
- Minimum Temperatures are in the range of 6-10°C in most parts of Punjab, Haryana, Chandigarh & Delhi, north Rajasthan and West Uttar Pradesh and in some parts of East Uttar Pradesh and north Madhya Pradesh.
- No significant change in minimum temperatures over most parts of the country during next 3-4 days.
- Dense fog in morning hours in isolated pockets very likely over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura during next 48 hours.
- 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 at isolated places over Andaman & Nicobar Islands, Coastal Andhra Pradesh, Rayalaseema, South Interior Karnataka and Kerala & Mahe.
- Fog observed (at 0830 hrs IST of today): Shallow fog in many pockets over Punjab; in a few pockets over East Uttar Pradesh and in isolated pockets over Himachal Pradesh, Jharkhand and Delhi.
- Minimum Temperature Departures (as on 13-12-2021): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Gujarat state, Madhya Maharashtra, Telangana and Coastal Andhra Pradesh & Yanam; at a few places over West Madhya Pradesh and Karnataka and at isolated places over

Kerala & Mahe and Odisha; above normal (1.6°C to 3.0°C) at most places over Konkan & Goa, Marathwada and Rayalaseema; at many places over Tamil Nadu, Puducherry & Karaikal, Chhattisgarh and Punjab; at a few places over Andaman & Nicobar Islands and Sub-Himalayan West Bengal & Sikkim and at isolated places over East Madhya Pradesh and Vidarbha. They are below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh and Bihar and at isolated places over West Uttar Pradesh, Rajasthan and Haryana and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.2°C is reported at Hissar (Haryana) over the plains of the country.

- Maximum Temperature Departures (as on 12-12-2021): Maximum temperatures were above normal (1.6°C to 3.0°C) at many places over Coastal Karnataka; at a few places over Saurashtra & Kutch, Kerala & Mahe, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal and at isolated places over West Uttar Pradesh, Vidarbha, Konkan & Goa, Telangana, Gangetic West Bengal and Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over East Uttar Pradesh and East Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Rajasthan, West Madhya Pradesh and Odisha and at isolated places over East Uttar Pradesh, Bihar and Andaman & Nicobar Islands and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.9°C was reported at Cannur (Kerala & Mahe).

Weather Warning during the next 5 days (IMD)

- 13 December (Day 1): Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 14 December (Day 2): Dense fog very likely in isolated pockets over Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura.
- 15 December (Day 3): Nil.
- 16 December (Day 4): Nil.
- 17 December (Day 5): Thunderstorm with lightning likely at isolated places over south Tamil Nadu
- The weather outlook for seven days i.e., 13 Dec to 21 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)

Maharashtra-Vidarbha

Weather condition:

Weekly average means (49 MW) at AICRPAM Akola centre: T max 28.0°C (normal 30.2°C), T min 15.8°C (normal 11.6°C). RH I 85 % (normal 70 %), RH II 45 % (normal 30 %). Evaporation rate 4.7 mm (normal 3.2 mm), Wind 0.8 km/hr (normal 3.4 km/hr) and BSH 3.2 hrs (normal 8.2 hrs). Maximum temperature across the week was 4.3°C below normal with a deviation of -6.1 to -2.2°C from normal. Minimum temperature across the week 0.3°C above normal with a deviation of -3.0 to +3.4°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates dry weather likely to prevail during 09-13 December. Undertake clean picking of burst cotton bolls properly, dry and keep the picked produce variety wise. Use cotton bags instead of gunny or plastic bags for picking and storing of cotton to avoid contamination of the lint.
- Prevailing weather conditions of partly cloudiness and lowering night time temperature are congenial for pod borer incidence in pigeonpea. To manage the initial incidence of pod borer (*Helicoverpa*) in pigeonpea at flowering stage/pod formation (3/plant or 5 to 10% pod damage), undertake first spray of 5% NKSE OR Azadirachtin 300 PPM @ 50 ml per 10 litres of water. Subsequently to control incidence of pod borer in pigeonpea, undertake spray of Emamectin benzoate 5% SG @ 3 g OR Lambdacyhalothrin 5% EC @ 10 ml OR Chlorantraniliprole 18.5% SC @ 2.5 ml per 10 litres of water.
- Intermittent cloudy weather and lowering night time temperature favour infestation of pod borer in chickpea crop. IPM practices should be followed for the control of *Helicoverpa* in chickpea crop by using 5 Pheromone traps per hectare, one spray of 5 % NSKE in chickpea at flowering stage and ETL based spray of Quinalphos 25 EC 20 ml or Emamectin benzoate 5 SG @ 3 g or Chlorantraniliprole 18.5 SC @ 2.5 ml per 10 lit of water.
- In timely sown rabi sorghum for control of stem borer and fall armyworm undertake spray of Thiamethoxam 12.6 % + Lambdacyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 litres of water. Prevailing intermittent cloudy weather and lowering night temperature favours aphid incidence in safflower. Safflower crop should be protected from the attack of aphids by using 5 % NSKE or Dimethoate 30 EC 10 ml per 10 lit of water.
- Wheat crop should be irrigated at the critical stages of irrigation i.e., CRI stage (18-20 days), tillering stage (30-35 days), flowering (65-70 days), grain filling stage

(80-85 days) and grain maturity stage (95-100 days). If only one irrigation is available, it should be applied at 40-42 DAS, if two irrigations are available, it should be applied at 18-20 and 60-65 DAS and if three irrigations are available, it should be applied at 18-20, 40-42 and 60-65 DAS for better yield.

- In Mrig Bahar Nagpur mandarin & Sweet orange (Mosambi) orchards should be continued by drip irrigation. Apply by drip irrigation 41 litres/day/tree for six year old trees and for 10 years old and above trees apply 82 litres/day/tree by drip irrigation.
- In brinjal crop due to prevailing intermittent cloudy weather to manage sucking pests undertake spray of 5% NSKE for whenever required.
- With lowering night temperature, suitable protection measures may be undertaken to protect newly born calf, milch animals and poultry birds from cold.

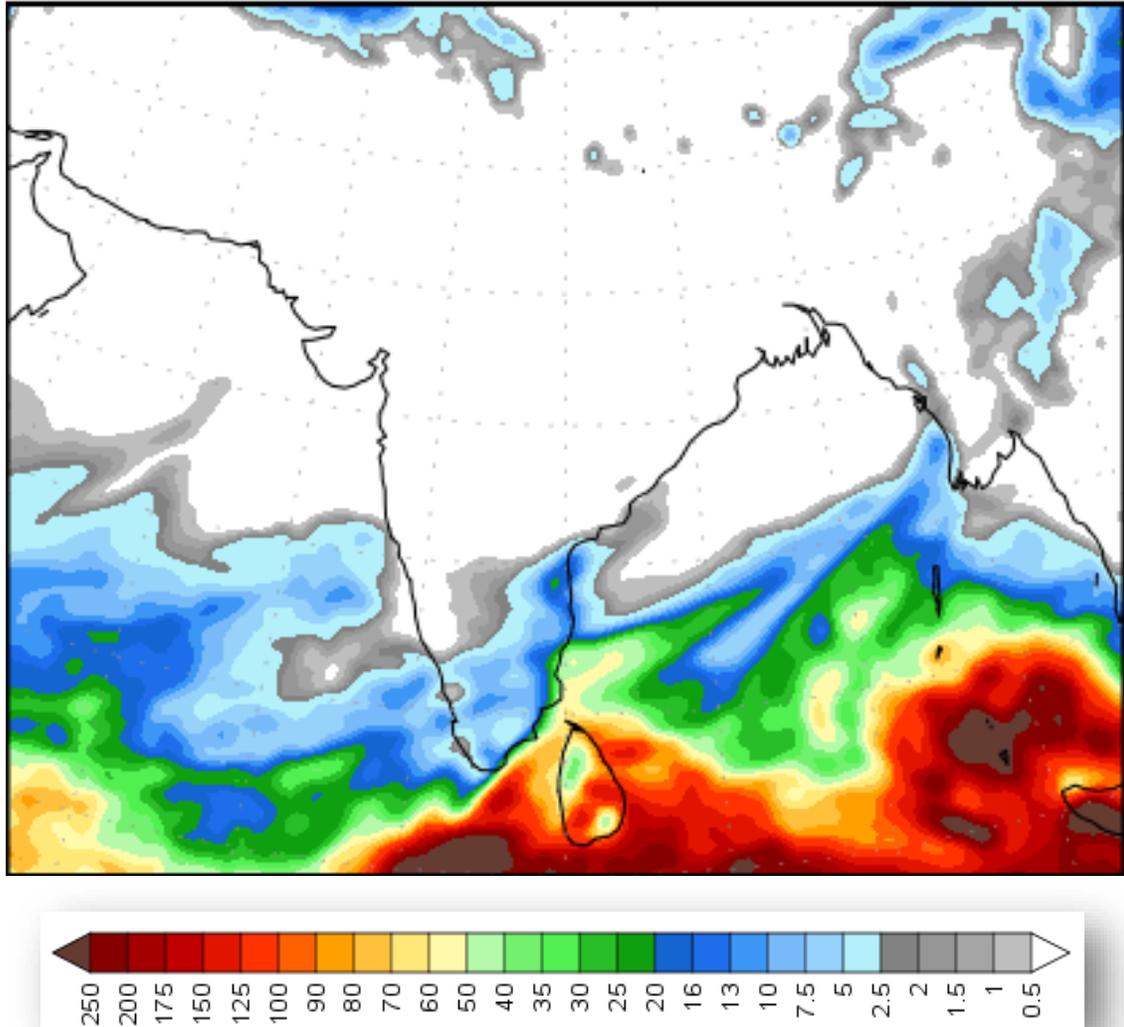


Figure:2. Precipitation forecast for 13 Dec to 21 Dec 2021 (Source: NOAA NCEP).

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