

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 18 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A cyclonic circulation lies over Jharkhand & neighbourhood at lower tropospheric levels. It is likely to move west northwestwards during next 48 hours across northeast Madhya Pradesh.
- The western end of monsoon trough is north of its normal position and the eastern end is south of its normal position. The western end of monsoon trough very likely to shift gradually southwards towards its near normal position during next 2 days.
- Strong southerly winds from Bay of Bengal to northeast India will continue to prevail till 19th August, 2021. Due to above meteorological conditions:
 - i) Enhanced rainfall activity over Central & adjoining north Peninsular India during next 2-3 days: Fairly widespread to widespread rainfall activity with isolated heavy falls is very likely over Gujarat region, Maharashtra, Odisha, Jharkhand, Gangetic West Bengal on 18th & 19th; over Madhya Pradesh from 18th to 20th; over Telangana and Chhattisgarh on 18th August, 2021.
 - ii) Continuation of rainfall activity over Northeast India: Widespread rainfall activity with isolated heavy to very heavy falls very likely to continue over Northeast India and Sub-Himalayan West Bengal & Sikkim during next 2 days. Decrease in intensity with likely occurrence of isolated heavy rainfall over the above regions during subsequent 3 days.
 - iii) Increased rainfall activity over Northwest India from 19th August: Scattered to fairly widespread rainfall activity with isolated heavy falls very likely over East Uttar Pradesh and Uttarakhand from 19th to 21st August; over Himachal Pradesh, Haryana and West Uttar Pradesh on 20th & 21st August, 2021. Isolated heavy to very heavy is also very likely over Uttarakhand on 19th & 20th August, 2021. Fairly widespread rainfall activity with isolated heavy falls very likely over Bihar from 20th to 22nd August, 2021.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal & North Interior Karnataka, Telangana, Kerala & Mahe, Lakshadweep, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha, Chhattisgarh, Odisha and West Bengal & Sikkim; at many places over Madhya Pradesh, Gujarat region and South Interior Karnataka; at a few places over Bihar, Jharkhand, Puducherry & Karaikal and Coastal Andhra Pradesh and at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Saurashtra & Kutch and Rayalaseema.
- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Heavy to heavy rainfall observed at isolated places over SubHimalayan West Bengal & Sikkim, Marathawada, Arunachal Pradesh and Chhattisgarh and heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Gujarat region, Assam & Meghalaya, Tripura, Madhya Maharashtra, Tamilnadu, Puducherry & Karaikal, Telangana, Odisha and Gangetic West Bengal.
- Thunderstorm observed (from 0830 hrs IST of yesterday to 0830 hours IST of today): at isolated places over Uttar Pradesh, Gujarat Region, Madhya Pradesh, Vidarbha, Bihar, Jharkhand, Gangetic West Bengal, Chhattisgarh, Odisha and Tamilnadu, Puducherry & Karaikal.
- Maximum Temperature Departures as on 17-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at most places over East Rajasthan; at many places over Saurashtra & Kutch; at a few places over West Rajasthan, East Madhya Pradesh and Gujarat region and at isolated places over Himachal Pradesh, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, West Madhya Pradesh and Tamilnadu, Puducherry & Karaikal; above normal (1.6°C to 3.0°C) at many places over Bihar and at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad, Kerala & Mahe and Andaman & Nicobar Islands. They were appreciably below normal (-3.1°C to -5.0°C) at most places over Marathwada and Telangana and at isolated places over Coastal Andhra Pradesh & Yanam and Rayalaseema and below normal (-1.6°C to -3.0°C) at most places over Nagaland, Manipur Mizoram & Tripura; at a few places over Konkan & Goa, Madhya Maharashtra, Odisha and Gangetic West Bengal. Yesterday, the highest maximum temperature of 41.7°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 18-08-2021: Minimum temperatures are above normal (1.6°C to 3.0°C) at most places over Uttarakhand and Punjab; at a

few places over West Uttar Pradesh, Rajasthan and Haryana, Chandigarh & Delhi and Bihar; at isolated places over East Uttar Pradesh, Madhya Pradesh and Sub-Himalayan West Bengal & Sikkim. They are below normal (-1.6°C to -3.0°C) at many places over Jammu & Kashmir, Ladakh, GilgitBaltistan & Muzaffarabad and Himachal Pradesh; at a few places over Saurashtra & Kutch; at isolated places over Telangana and Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 18.0°C reported at Bulsar (Gujarat Region) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 18 August (Day 1): Heavy to very heavy rainfall very likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; Heavy rainfall at isolated places over Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, Gangetic West Bengal, Odisha, Marathwada, Madhya Maharashtra, Konkan & Goa, Telangana, Tamilnadu, Puducherry & Karaikal, Nagaland, Manipur, Mizoram & Tripura, and Gujarat Region. Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) very likely at isolated places over Kerala & Mahe and Lakshadweep and with lightning at isolated places over Uttarakhand, Uttar Pradesh, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Telangana, Tamilnadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 19 August (Day 2): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh and Assam & Meghalaya; Heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Jharkhand, Gangetic West Bengal, Odisha, Gujarat Region, Konkan & Goa and Nagaland, Manipur, Mizoram & Tripura. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Bihar, Jharkhand, West Bengal & Sikkim and Telangana. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 20 August (Day 3): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand; Heavy rainfall at isolated places over Himachal Pradesh, Haryana, Uttar Pradesh, Madhya Pradesh, Arunachal Pradesh, Sub-Himalayan West Bengal & Sikkim and Bihar. Thunderstorm accompanied with lightning very likely at isolated places over Himachal Pradesh, Uttarakhand, Punjab, Haryana,

Chandigarh & Delhi, Uttar Pradesh, East Rajasthan and Jharkhand. Strong winds (speed 40-50 kmph gusting to 60 kmph) likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 21 August (Day 4): Heavy rainfall likely at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Uttar Pradesh, East Rajasthan, Sub-Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Himachal Pradesh, Uttarakhand, Haryana, Chandigarh & Delhi, Uttar Pradesh, East Rajasthan, Telangana and Tamilnadu, Puducherry & Karaikal.
- 22 August (Day 5): Heavy rainfall likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Bihar, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning likely at isolated places over Telangana and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 18 Aug to 26 Aug 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)

Marathwada

Weather condition:

From 06.08.2021 to 12.08.2021 during this week Weather condition of Parbhani center total 2.3 mm rainfall was recorded. The Maximum temperature was range from 32.0 to 33.6 0C and minimum temperature range from 22.0 to 23.1 0C. Relative humidity (RH-I) ranged between 80-90% and relative humidity (RH-II) recorded was 48-71% The wind speed varied 3.2-5.2 km/hr.

Contingency measure:

- Soybean: Due to cloudy weather condition infestation of girdle beetle & leaf eating caterpillar in soybean may observed for management take a spray of Novaluron 5.25 % + Indoxacarb 4.5% @ 850 ml/ha or Thiamethoxam + Lambda Cyhalothrin @ 125 ml/ha or Betacyfluthrin + imidacloprid @ 350 ml/ha.
- Kharif Sorghum: For management of fall armyworm in Kharif sorghum crop take a spray of Thiamethoxam 12.6 % + Lambda cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water. Precaution should be taken so that the insecticide may enter in whorls of Kharif sorghum.

- Turmeric: For management of Rhizome fly in turmeric take a spray of Quinalphos 25 % @ 20 ml or Diamethoate 30 % @ 10 ml per 10 liter of water along with sticker with an interval of 15 days. Cover the rhizome with the help of soil. (As label claim was not given by Central Insecticides Board for Rhizome fly in turmeric the research recommendation of university is mentioned here).
- Cotton: Light hoeing should be done in cotton crop for weed management and for soil moisture conservation. If water stress is observed in cotton irrigation management should be done with the help of drip irrigation system. Due to long dry spell and cloudy weather sucking pests may increase in cotton crop for management of sucking pest take a spray of 5% NSKE or verticillium lecanii @ 1 kg or Flonicamid 50% @ 60 gm or Dinotefuran 20% @ 60 gm or Buprofezin 25% @ 400 ml or Acetamipride 20% @ 40 gm per acre. For management of pink bollworm in cotton install pink bollworm Pheromone trap @ 5 per acre.
- Pigeonpea: Light hoeing should be done in pigeonpea crop for weed management and for soil moisture conservation. If water stress is observed in pigeonpea irrigation management should be done with the help of drip irrigation system. For management of pigeonpea leaf roller take a spray of 5% NSKE or Quinalphos 25% @ 16 ml per 10 liter of water.
- Black gram / Green gram: If water stress is observed in Black gram/Green gram irrigation management should be done with the help of Sprinkler irrigation system. Due to current humid and cloudy weather aphids may observe in Black gram / Green gram For management of aphids in black gram / green gram crop take a spray of 5% NSKE or Dimethoate 30% @ 240 ml per acre during clear weather condition. For management of Cercospora leaf spot in Black gram/Green gram take a spray of Carbendazim + Mancozeb @ 25 gm per 10 liter of water.
- Groundnut: Light hoeing should be done in Groundnut crop for weed management and for soil moisture conservation. If water stress is observed in Groundnut irrigation management should be done with the help of sprinkler irrigation system.
- Maize: Light hoeing should be done in Maize crop for weed management and for soil moisture conservation. If water stress is observed in Maize irrigation management should be done with the help of sprinkler irrigation system. For management of fall armyworm in maize crop take a spray of Thiamethoxam 12.6 % + Lambda ? cyhalothrin 9.5 ZC @ 5 ml or Spinetoram 11.7 SC @ 4 ml per 10 liter of water. Precaution should be taken so that the insecticide may enter in whorls of Maize Crop.

- Banana: Light hoeing should be done in newly planted Banana orchard for weed management and for soil moisture conservation. If water stress is observed in Banana orchard irrigation management should be done with the help of drip irrigation system.
- Mango: Light hoeing should be done in newly planted Mango orchard for weed management and for soil moisture conservation. If water stress is observed in Mango orchard irrigation management should be done with the help of drip irrigation system.
- Grape: Light hoeing should be done in newly planted Grape orchard for weed management and for soil moisture conservation. If water stress is observed in Grape orchard irrigation management should be done with the help of drip irrigation system.
- Custard apple: Light hoeing should be done in newly planted Custard Apple orchard for weed management and for soil moisture conservation. If water stress is observed in Custard Apple orchard irrigation management should be done with the help of drip irrigation system.
- Vegetable: Light hoeing should be done in vegetable crop for weed management and for soil moisture conservation. If water stress is observed in vegetable irrigation management should be done with the help of micro irrigation system. Due to cloudy weather condition sucking pest may observed in vegetable crops. for management of Sucking pests in vegetable crops (Chilli, brinjal, Ladies finger.) take a spray of Pyriproxyfen 5 % + Fenprothrin 15 % @ 10 ml or Dimethoate 30 % @ 13 ml per 10 liter of water. Due to current humid and cloudy weather early blight may observed in Tomato crop for management take a spray of Azoxystrobin 18.2% + Difenconazole 11.4% @ 10 ml + 5 ml Sticker per 10 liter water.
- Floriculture: Light hoeing should be done in newly planted floriculture crop for weed management and for soil moisture conservation. If water stress is observed in floriculture irrigation management should be done with the help of micro irrigation system.
- Animal husbandry: During rainy season infestation of insect pest of livestock has been increased. The population of Culicoides sp. Mosquitoes, Haematobia is on rising trend. Hence 5% Neem ark prepared fresh shall be sprayed on livestock and in the shed/premised.



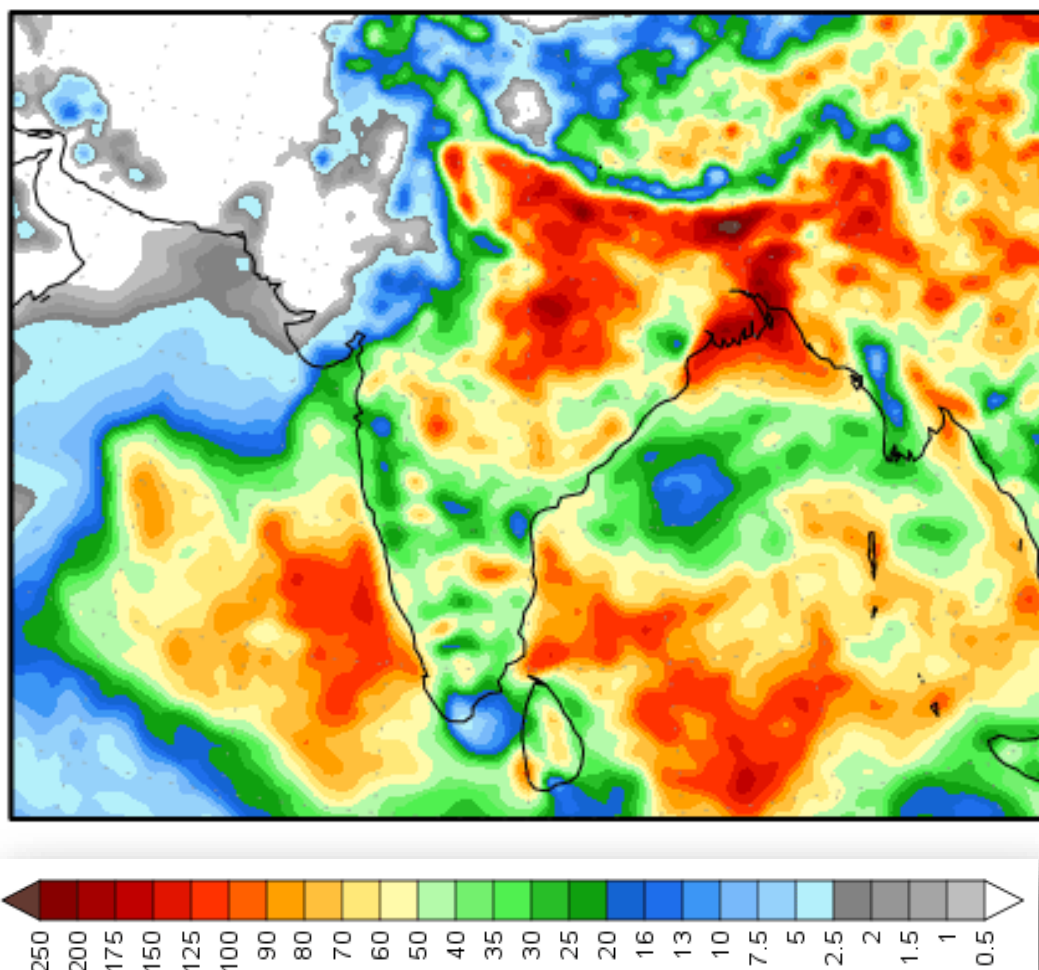


Figure:2. Precipitation forecast for 18 Aug to 26 Aug 2021 (Source: NOAA NCEP).

Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.