

All India Coordinated Research Project on Agrometeorology

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Daily Crop Weather Information as on 25 August 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The entire monsoon trough lies close to the foothills of the Himalayas. It is likely to remain there till tomorrow, the 26th August. In view of the likely formation of a cyclonic circulation over northwest and adjoining westcentral Bay of Bengal on 27th Aug, the eastern end of the monsoon trough is likely to shift southwards from 27th August. The western end likely to start shifting southwards from 29 Aug.
- Strong southerly/south-westerly winds from Bay of Bengal to northeast India very likely to continue to prevail till 26th August, 2021.
- Due to above meteorological conditions:
 - (i) Widespread rainfall activity with isolated heavy to very heavy falls very likely to continue over Northeast India, Sub-Himalayan West Bengal & Sikkim till 27th August and reduce thereafter with isolated heavy rainfall over the region. Isolated extremely heavy falls also likely over Arunachal Pradesh on 25th August, 2021.
 - (ii) Fairly widespread to widespread rainfall activity with isolated heavy to very heavy falls very likely to continue over Uttarakhand till 29th August and isolated heavy falls likely over Bihar and East Uttar Pradesh till 27th August.
 - (iii) Scattered to fairly widespread rainfall activity with isolated heavy falls over Tamilnadu during next 5 days and over Kerala & Mahe on 27th-29th August.
 - (iv) Thunderstorm accompanied with lightning over East India during next 2 days.
- Subdued rainfall activity likely to continue over Northwest & Central India and West Coast during next 4 days.
- 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 most places over Arunachal Pradesh, Assam & Meghalaya, Sub-Himalayan West Bengal & Sikkim and Bihar; at many places over Andaman

& Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, Gangetic West Bengal, Jharkhand, Uttar Pradesh, Himachal Pradesh, Uttarakhand, Coastal Karnataka, Kerala & Mahe and Lakshadweep; at a few places over Odisha, Vidarbha, Chhattisgarh, Telangana, Rayalseema and Interior Karnataka and at isolated places over Haryana, Chandigarh & Delhi, Punjab, Jammu & Kashmir, Ladakh, Gilgit-Baltistan, Muzaffarabad, East Rajasthan. west Madhya Pradesh, Gujarat State, Konkan & Goa, Madhya Maharashtra, Marathwada, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.

- Heavy rainfall observed (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over Uttarakhand; very heavy rainfall at isolated places over Tripura, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal, Sub-Himalayan West Bengal & Sikkim; Heavy rainfall at isolated places over Punjab, Bihar, Jharkhand, Odisha, East Uttar Pradesh, Rayalaseema, Mizoram, Assam, Himachal Pradesh and Arunachal Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Bihar, Jharkhand, Odisha, West Bengal & Sikkim, Vidarbha, Telangana, Uttarakhand, East Uttar Pradesh, Interior Karnataka, Chhattisgarh, Tamil Nadu and Coastal Andhra Pradesh & Yanam.
- Maximum Temperature Departures as on 24-08-2021: Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Madhya Maharashtra; at a few places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Rajasthan; at isolated places over Gujarat state, Madhya Pradesh, Vidarbha, Odisha and Gangetic West Bengal; above normal (1.6°C to 3.0°C) at most places over Jharkhand; at many places over Punjab, Marathawada, Telangana, Coastal Andhra Pradesh & Yanam and Interior Karnataka; at a few places over Himachal Pradesh and Kerala & Mahe and at isolated places over Assam & Meghalaya. They were appreciably below normal (-3.1°C to -5.0°C) at isolated places over Andaman & Nicobar Islands and East Uttar Pradesh; below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and West Uttar Pradesh and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 41.5°C was reported at Ganganagar (West Rajasthan).
- Minimum Temperature Departures as on 25-08-2021: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at most places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad; at isolated places over Himachal Pradesh and East Rajasthan; above normal (1.6°C to 3.0°C) at most places over Uttarakhand, Punjab; at many places over West Rajasthan and Jharkhand; at a

few places over Haryana, Chandigarh & Delhi, Vidarbha and Rayalaseema; at isolated places over Madhya Pradesh, West Bengal & Sikkim, Odisha and Coastal Andhra Pradesh & Yanam. They are below normal (-1.6°C to -3.0°C) at isolated places over Tamil Nadu, Puducherry & Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 19.0°C reported at Bulsar (Gujarat Region) over the plains of the country.

Weather Warning during the next 5 days (IMD)

- 25 August (Day 1): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Arunachal Pradesh; Heavy to very heavy rainfall at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Assam & Meghalaya and Heavy rainfall at isolated places over East Uttar Pradesh, Coastal Karnataka, Andaman & Nicobar Islands, Bihar, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, Uttar Pradesh, Bihar, Jharkhand, Vidarbha, Chhattisgarh, East Madhya Pradesh, Assam & Meghalaya, Andaman & Nicobar Islands, Nagaland, Manipur, Mizoram & Tripura, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 26 August (Day 2): Heavy to very heavy rainfall with extremely heavy falls very likely at isolated places over Sub-Himalayan West Bengal & Sikkim; Heavy to very heavy rainfall at isolated places over Arunachal Pradesh, Uttarakhand, Bihar and Assam & Meghalaya and Heavy rainfall at isolated places over East Uttar Pradesh, Andaman & Nicobar Islands, Gangetic West Bengal, Odisha, Nagaland, Manipur, Mizoram & Tripura and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Uttarakhand, East Uttar Pradesh, Bihar, Jharkhand, Vidarbha, Chhattisgarh, Andaman & Nicobar Islands, West Bengal & Sikkim, Odisha, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 27 August (Day 3): Heavy to very heavy rainfall very likely at isolated places over Uttarakhand, Sub-Himalayan West Bengal & Sikkim and Arunachal Pradesh and Heavy rainfall at isolated places over Himachal Pradesh, Bihar, Odisha, Assam &

Meghalaya, Nagaland, Manipur, Mizoram & Tripura, South Interior Karnataka, Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over Jammu & Kashmir, Uttarakhand, Uttar Pradesh, Jharkhand, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. Strong winds (speed 40-50 kmph gusting to 60 kmph) very likely over Southwest and Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 28 August (Day 4): Heavy to very heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, Sub-Himalayan West Bengal & Sikkim, Odisha, Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam and Chhattisgarh. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Vidarbha, Chhattisgarh, Coastal Andhra Pradesh & Yanam, Telangana and Tamilnadu, Puducherry & Karaikal. 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.
- 29 August (Day 5): Heavy to very heavy rainfall likely at isolated places over Kerala & Mahe and Tamil Nadu, Puducherry & Karaikal and Heavy rainfall at isolated places over East Uttar Pradesh, Madhya Pradesh, Vidarbha, Uttarakhand, Arunachal Pradesh, Assam & Meghalaya, Coastal & South Interior Karnataka, Coastal Andhra Pradesh & Yanam, Telangana and Chhattisgarh. Thunderstorm accompanied with lightning likely at isolated places over Jammu & Kashmir, Punjab, Haryana, Chandigarh & Delhi, Uttarakhand, Uttar Pradesh, Madhya Pradesh, Chhattisgarh, Coastal Andhra Pradesh & Yanam, South Interior Karnataka, Telangana, and Tamilnadu, Puducherry & Karaikal. 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.
- The weather outlook for seven days i.e., 25 Aug to 02 Sep 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 (33 MW) at AICRPAM Akola centre: T max 32.6°C (normal 30.4°C), T min 23.5°C (normal 23.2°C). RH I 84 % (normal 87 %), RH II 57 % (normal 67 %). Evaporation rate 5.4 mm (normal 4.3 mm), Wind 4.5 km/hr (normal 10.4 km/hr) and BSH 5.8 hrs (normal 3.8 hrs). Maximum temperature across the week was 2.2°C above normal with a deviation of -2.9 to +4.4°C from normal. Minimum temperature across the week 0.3° above normal with a deviation of -0.8 to +1.1°C from normal.

Contingency measure:

- Block level forecast (Akola) indicates widespread light to moderate rainfall with thunderstorm with lightning during 19-20 August and fairly widespread light to moderate rainfall on 21 Aug and scattered light to moderate very likely occur at isolated places over block. Farmers are advised to monitor the crop regularly for insect incidence and use the suitable recommended control measures thereof in the initial stage itself. While planning plant protection spray consider the above said rainfall forecast and local weather conditions. Undertake spray on a non-rainy day with rain free period during spray and at least 6 hours after spray.
- In view of widespread rainfall forecast during next three days with isolated heavy rainfall, drain out excess water in the event of waterlogging in standing crop/vegetable fields and orchards. For surveillance & control of pink boll worm incidence, erect 5 pheromone traps/ha(30-40 m apart) in cotton fields. With 8 to 10 adult moth observed in trap over 3 consecutive days, undertake mass trapping with erection of 15-20 pheromone traps/ha. Use trichocard 3/acre as parasitoids to kill the pest in egg stage.
- For control of sap sucking pest infestation (aphids / jassids) in cotton undertake spray of 5% NSKE OR azadirachtin 0.03 (300 ppm) @ 50 ml per 10 litres of water. To control above ETL infestation of aphids & jassids(10 aphids, 2-3 jassids/leaf), undertake spray of imidacloprid 17.8% SL 2.5 ml OR Buprofezin 25% SC @ 20 ml per 10 litres of water.
- Undertake spray after current spell of rains. In areas where infestation of yellow mosaic is reported in soybean , in initial stage erect yellow sticky trap @ 4 to 5 per acre for control of vector white fly which transmits the disease. Also remove and destroy affected plants. For above ETL level incidence of white fly, during clear weather undertake spray of pre-mix formulation of Beta-Cyfluthrin 8.49% + Imidacloprid 19.81% OD @ 7 ml OR Thiamethoxam + Lambda Cyhalothrin @ 2.5 per 10 liters of water, which will also control defoliators.
- Undertake spray after current spell of rains. Install pheromone traps @ 5/ha for monitoring of Helicoverpa in pigeon pea. Monitor for presence of eggs & small larvae. Depending upon the market demand picking of green pods is advisable

partly in green gram crop for better monetary benefit.

- For monitoring of maize army worm (*Spodoptera frugiperda*), install pheromone traps @ 5/acre and as the intensity of infestation increases for mass trapping increase number of pheromone traps. At the initiation of infestation (5% plant damage) undertake mechanical picking of egg larvae masses and its destruction regularly. At the initial stage of infestation (5% plant damage) undertake spray of Azadirachtin 1500 ppm @ 50 ml OR 5% NSKE per 10 litres of water during morning or evening hours directed towards whorl (funnel) during clear weather. Biocontrol with spray application of *Bacillus thuringiensis kurstaki* @ 20 g per 10 litres of water directed towards whorl (funnel) is also advisable. Undertake spray after current spell of rains. In mandarin orange (*Ambia bahar*) after current spell of rains spray of 1.5 g Gibberellic acid + 1 kg Urea + 100 gm Carbendazim 50% WP per 100 litres of water is advisable to reduce fruit drop problem.
- Vegetables like bitter melon, tindora, cluster bean, cowpea, gourds etc can be cultivated during this period. Seed treatment with bio-fungicide *Trichoderma* is advisable. In chilli crop after current spell of rains undertake spray of Difenoconazole 25 EC @ 5 ml OR Azoxystrobin 23% SC @ 10 ml in 10 litres of water for control of dieback and fruit rot disease.
- External and Internal parasite cases are common in rainy season so take care of it with consulting the veterinary doctor.

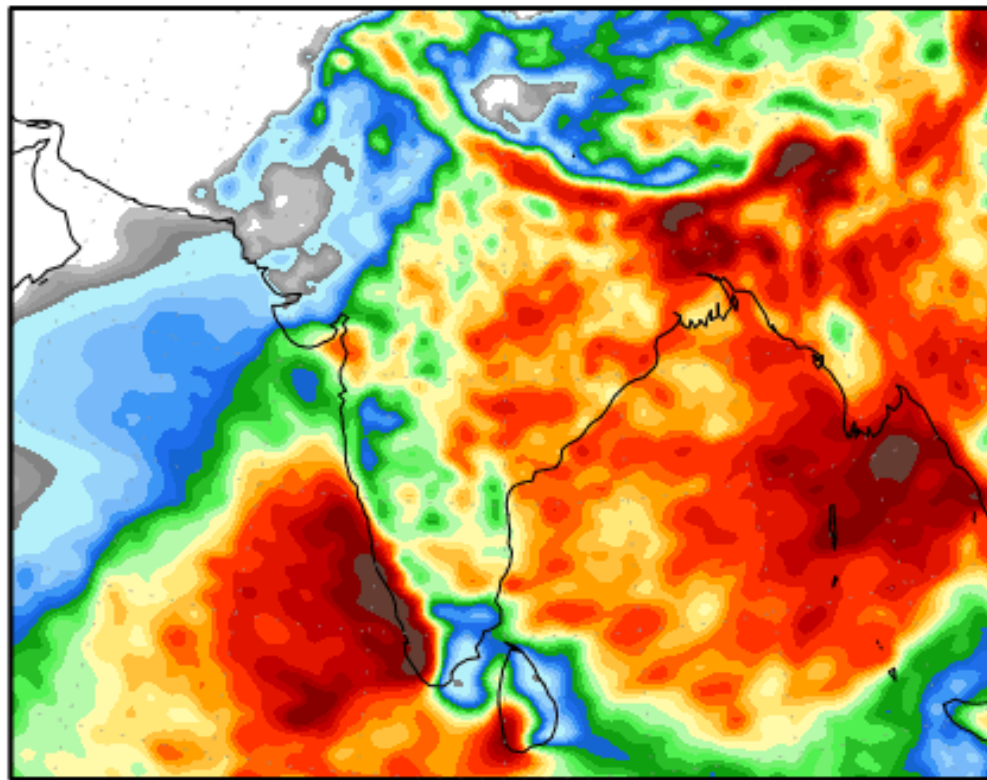


Figure:2. Precipitation forecast for 25 Aug to 02 Sep 2021 (Source: NOAA NCEP).

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