

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 29 March 2022

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Significant Weather Features (IMD)

- Heat Wave conditions Forecast:
- Heat Wave to severe Heat Wave conditions in some parts very likely over West Rajasthan during 29th-30th March and isolated heat wave conditions during 31st March-02nd April, 2022.
- Isolated Heat Wave conditions very likely over Jammu Division & Himachal Pradesh on 29th; over south Haryana & Delhi on 29th & 30th; over Saurashtra-Kutch, East Rajasthan & West Madhya Pradesh during 29th March-02nd April; over Vidarbha, north Madhya Maharashtra & Marathwada during 29th-31st March; over south Uttar Pradesh on 30th & 31st March; over Jharkhand & interior Odisha during 30th March-02nd April, 2022.
- Rainfall Forecast & Warnings:
- Light to moderate isolated/scattered rainfall very likely to continue over Northeast India during next 24 hours. Thereafter, under the influence of strong southwesterly winds from Bay of Bengal to northeastern states at lower tropospheric levels; Scattered to fairly widespread light/moderate rainfall with thunderstorm/lightning/gusty winds (40-50 kmph) very likely over the region during 30th March-01st April with isolated heavy rainfall over Assam-Meghalaya and Arunachal Pradesh on 31st March & 01st April, 2022.
- Under the influence of trough/wind discontinuity over south Peninsular India; i) Light to moderate isolated/scattered rainfall very likely over Kerala-Mahe, Tamilnadu-Puducherry-Karaikal and Coastal & South Interior Karnataka during next 5 days.
- ii) Isolated thunderstorm/lightning activity also very likely over Tamilnadu-Puducherry-Karaikal & Lakshadweep on 29th March and Kerala & Mahe during next 5 days.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rainfall/thundershower observed (from 0830 hours IST to 1730 hours IST of yesterday): at many places over Nagaland, Manipur, Mizoram & Tripura and at isolated places over Assam & Meghalaya, Tamil Nadu, Puducherry & Karaikal, Lakshadweep and Kerala & Mahe.
- Heat Wave to Severe Heat Wave conditions were observed in many parts of West Rajasthan; in some parts of East Rajasthan and Heat Wave conditions in many parts of Himachal Pradesh; in some parts of Saurashtra-Kutch and in isolated pockets of Jammu Division, Uttarakhand and West Madhya Pradesh.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0530 hours IST of today): at isolated places over Kerala & Mahe.
- Maximum Temperature Departures (as on 28-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at most places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Punjab, Haryana, Chandigarh & Delhi, West Rajasthan and Himachal Pradesh; at many places over Uttarakhand and at isolated places over East Rajasthan; appreciably above normal (3.1°C to 5.0°C) at most places over West Uttar Pradesh; at many places over Saurashtra-Kutch, Madhya Pradesh, Vidarbha and Marathawada; at a few places over East Uttar Pradesh; at isolated places over Gujarat State, Madhya Maharashtra, and Odisha; above normal (1.6°C to 3.0°C) at most places over Jharkhand and Chhattisgarh; at many places over Gangetic West Bengal, Telangana and Coastal Karnataka; at a few places over Assam-Meghalaya, Bihar, Rayalaseema and Kerala-Mahe and at isolated places over Coastal Andhra Pradesh & Yanam and Tamil Nadu-Puducherry-Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Island and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 43.0°C was reported at Khargone (West Madhya Pradesh) over the country.
- Minimum Temperature Departures (as on 28-03-2022): Minimum temperatures were markedly above normal (5.1°C or more) at isolated places over Himachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over West Rajasthan, Bihar and SubHimalayan West Bengal & Sikkim; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Haryana, Chandigarh & Delhi and Saurashtra & Kutch and at isolated places over East Rajasthan, Gangetic West Bengal and Arunachal Pradesh above normal (1.6°C to 3.0°C) at most places over Nagaland, Manipur, Mizoram & Tripura and Marathwada; at many places over Gujarat Region and Madhya Maharashtra; at a few places over

West Uttar Pradesh, Odisha and Konkan & Goa and at isolated places over East Uttar Pradesh, West Madhya Pradesh, Telangana, Coastal Andhra Pradesh and Tamil Nadu Puducherry & Karaikal. They were below normal (-1.6°C to -3.0°C) at a few places over East Madhya Pradesh and Isolated Places over Vidarbha and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the lowest minimum temperature of 14.0°C was reported at Rewa (East Madhya Pradesh) over the plains of the country

Weather Warning during the next 5 days (IMD)

- 29 March (Day 1): Heat wave to severe heat wave conditions in some parts very likely over West Rajasthan; Heat wave conditions in some parts of East Rajasthan and in isolated pockets over Jammu Division, Himachal Pradesh, Saurashtra-Kutch, south Haryana & Delhi, West Madhya Pradesh and Vidarbha. Thunderstorm accompanied with lightning at isolated places very likely over TamilnaduPuducherry-Karaikal, Kerala-Mahe and Lakshadweep.
- 30 March (Day 2): Heat wave to severe heat wave conditions in some parts very likely over West Rajasthan; Heat wave conditions in some parts of East Rajasthan and in isolated pockets over south Haryana & Delhi, south Uttar Pradesh, Saurashtra-Kutch, Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Arunachal Pradesh and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe.
- 31 March (Day 3): Heat wave conditions in isolated pockets very likely over south Uttar Pradesh, Saurashtra-Kutch, Rajasthan, Madhya Pradesh, Vidarbha, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning & gusty winds (speed reaching 40-50 kmph) at isolated places very likely over Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura and Arunachal Pradesh and with lightning at isolated places over Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe. Heavy rainfall at isolated places very likely over Assam-Meghalaya and Arunachal Pradesh.
- 01 April (Day 4): Heat wave conditions in isolated pockets likely over Saurashtra-Kutch, Rajasthan, Jharkhand, Odisha, Madhya Maharashtra and Marathawada. Thunderstorm accompanied with lightning at isolated places likely over Sub-Himalayan West Bengal & Sikkim, Assam-Meghalaya, Nagaland-Manipur-Mizoram-Tripura, Arunachal Pradesh and Kerala-Mahe. Heavy rainfall at isolated places likely over Assam-Meghalaya and Arunachal Pradesh.

- 02 April (Day 5): Heat wave conditions in isolated pockets likely over Saurashtra-Kutch, Rajasthan, Jharkhand, Odisha, Madhya Maharashtra and Marathwada. Thunderstorm accompanied with lightning at isolated places likely over Kerala-Mahe.
- The weather outlook for seven days i.e., 29 Mar to 06 Apr 2022 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)

Tamil nadu

Weather condition:

With respect to daily rainfall, rainfall occurred at isolated places over Tamil Nadu on 19.03.2022, 20.03.2022, 21.03.2022, 22.03.2022, 23.03.2022 and 24.03.2022 during this week. → Minimum temperature range of 21°C - 28°C prevailed over the state except Kodaikanal and Uthagamandalam (07°C - 12°C) during the period under report. → Maximum temperature range of 32°C - 40°C prevailed over the state except Kodaikanal and Uthagamandalam (18°C - 24°C) during the period under report. → Maximum temperature: 38.3°C (normal 36.9°C), minimum temperature: 23.1°C (normal 21.5°C), rainfall: 0.0 mm (normal 6.5 mm). The maximum and minimum temperature was 1.4°C and 1.6°C above normal respectively and the rainfall was 6.5 mm below normal across the week. General weather situation in Tamil Nadu:

Contingency measure:

- Irrigated crops -Water management- No rainfall is predicted for next five days.Hence, irrigation may be provided to protect crop from water stress. Dry land - Farmers are requested to practice the summer ploughing based on the suitable soil moisture prevailing for ploughing. Irrigated crops -Soil moisture conservation - Farmers are advised to practice mulching in order to harvest the rainfall for crop usage.
- Rainfed and Irrigatedcrops- All the stage -Sucking pest infection is noticed under increased temperature. Farmers are advised to go for plant protection and nutrient spray based on crop specific and stage.
- Chilli -Flowering and fruiting stage - Prevailing weather is conducive for Fruit Rot and Die Back diseases. The first spraying should be given just before flowering and the second at the time of fruit formation. Third spraying may be given a fortnight after second spraying. Chemicals like wetttable sulphur 0.2%, copper oxychloride 0.25% and Zineb 0.15% not only reduced the disease

incidence but also increased the yield of fruits. Prevailing weather is aphid is noticed. To control spray Imidacloprid 17.8 % SL@ 3.5 ml/10 lit.

- Coconut- All stages -Rugose Spiralling whitefly is noticed in the prevailed weather condition. Application of water, maida solution as spray in order to increase the population of Encarsia parasitic. Also keep yellow stick trap.
- Guava- Fruiting stage- Prevailing weather condition is conducive for Fruit fly, to control spray malathion 50 EC @2ml/litre or Dimethoate 30 EC @ 1ml/litre.. Prevailing weather is conducive for Tea mosquito bug. Spray malathion 2ml/lit water. (or) Thiamethoxam 25WG 40g/acre (or) Profenophos 2ml/acre. Spray 3% neem oil at 3 weeks interval for 4 times. (or) Collect and destroy the damaged plant parts.
- Jasmine -Flowering stage- Prevailing weather is conducive for Blossom midge. Spray Thiamethoxam 2.5% WG @ 0.75 g/litre (or) Novaluron 3ml/lit. of water.
- Citrus -Citrus Canker - Under the prevailing weather condition citrus canker disease is noticed. To control spray of Copper oxychloride (COC) @ 0.3% followed by 4 sprayings with Streptocyclin 100 ppm + COC @ 0.3 % at monthly intervals after pruning. Under the prevailing weather condition Citrus leaf miner is noticed. To control spray fenvalerate 0.2ml or dimethoate [Rogor] 2ml/1 (or) Spray application of NSKE 5%
- Livestock -Chick -Summer Management in Poultry: Heat stress in poultry especially broilers lead to huge economic loss. Signs of Heat stress: 1. Less feed intake 2. Poor growth rate 3. High mortality. Management: 1. Long axis of the poultry house should be in east-west direction. 2. Poultry house should have a width not more than 22-25 ft-to allow ample ventilation. 3. Wet gunny bags should be arranged on the sides of the poultry house to prevent the entry of direct sun-rays into the shed. 4. Feeding should be done in cool hours of the day. 5. Vitamin ?C? supplementation should be done. 6. Cool drinking water should be provided. 7. Addition of B-complex vitamins and electrolytes in the water will help to overcome the Heat Stress. 9. Space allowance to the birds may be increased to 20% to reduce stocking density.
- Dairy animals - Farmers may provide 30-50 gram of mineral mixture per animal to improve the production and health status. To avoid parasitic infestation in diary animals farmers are advised to deworm and detick the animals in nearby veterinary dispensary.
- Banana -All stages- Under prevailing weather condition Wilt disease noticed. Soil drenching of Carbendazim 0.1 per cent solution around the pseudostem at bimonthly intervals starting from five months after planting.

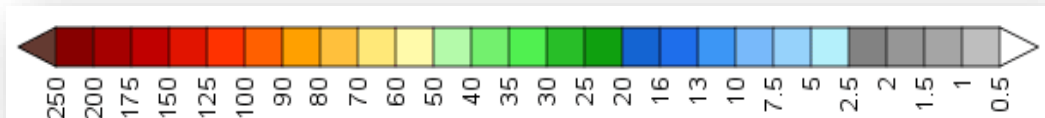
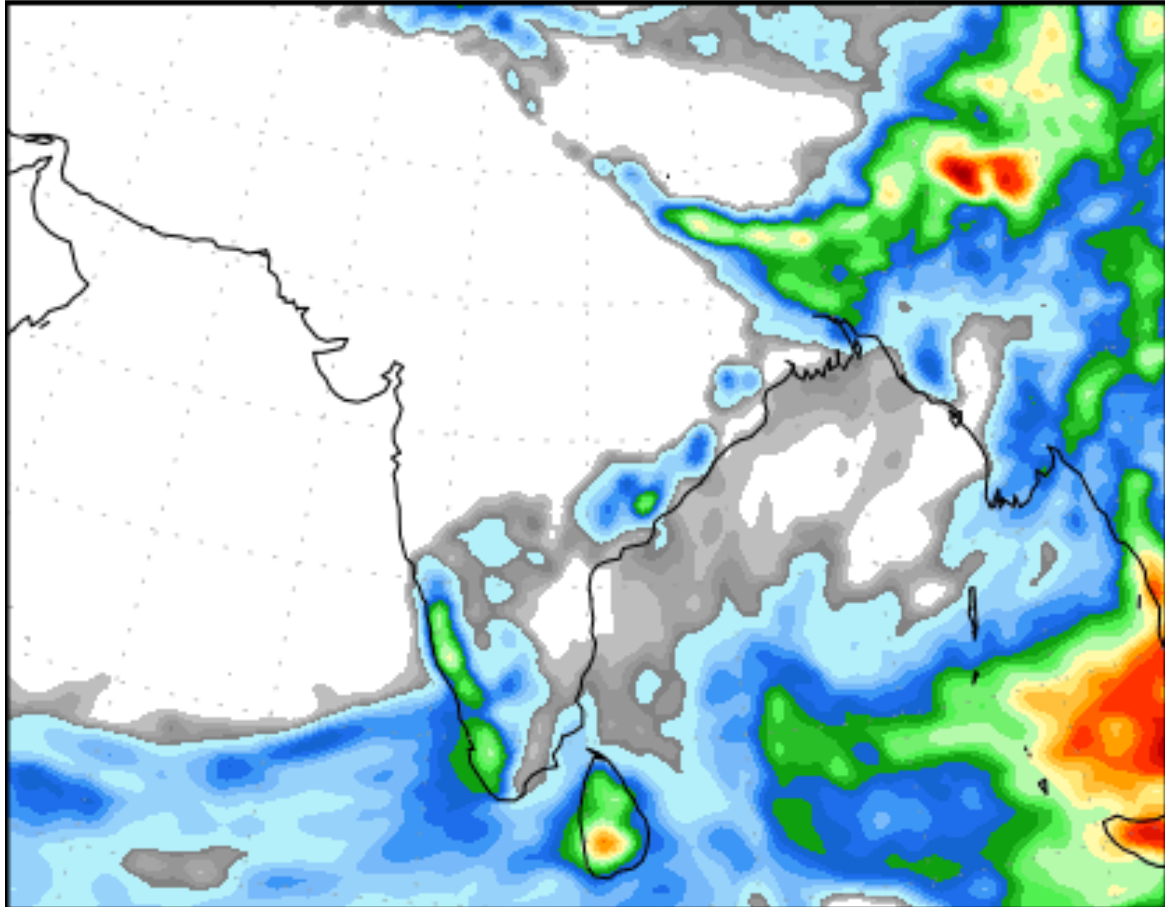


Figure:2. Precipitation forecast for 29 Mar to 06 Apr 2022 (Source: NOAA NCEP).

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