

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 10 December 2021

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- A Fresh Western Disturbance likely to affect Western Himalayan Region from the night of 13th December. It is very likely to cause light isolated to scattered rainfall/snowfall over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad and Himachal Pradesh during 13th-15th December.
- Dry weather very likely over most parts of Northwest & Central India during next 5 days.
- No significant change in minimum temperatures, hence no cold wave conditions over most parts of Northwest & Central India during next 5 days.
- Under the influence of northeasterly winds from Bay of Bengal prevailing along & off Tamilnadu-south Andhra Pradesh coasts at lower levels: Isolated to scattered light/moderate rainfall activity likely over south Coastal Andhra Pradesh & Yanam, Rayalaseema, South Interior Karnataka, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe during next 5 days.
- Shallow to Moderate Fog in isolated pockets likely over Odisha, Assam, Meghalaya, Mizoram & Tripura in morning hours during next 3 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 many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Odisha, Tamil Nadu, Puducherry & Karaikal, Lakshadweep, Coastal Andhra Pradesh & Yanam, Rayalaseema and at isolated places over Telangana, Kerala & Mahe, South Interior Karnataka, Gangetic West Bengal, Madhya Maharashtra, Arunachal Pradesh and Assam & Meghalaya.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Kerala & Mahe.
- Fog observed (at 0830 hrs IST of today): Shallow to Moderate Fog in isolated pockets over Punjab, Uttar Pradesh, East Madhya Pradesh and Himachal Pradesh.

- Minimum Temperature Departures (as on 10-12-2021): Minimum temperatures are markedly above normal (5.1°C or more) at many places over East Madhya Pradesh; at isolated places over Madhya Maharashtra; appreciably above normal (3.1°C to 5.0°C) at most places over Gangetic West Bengal, Jharkhand; at many places over Chhattisgarh, Bihar, Telangana, Rayalaseema, Marathwada; at isolated places over Saurashtra & Kutch, West Madhya Pradesh, Konkan & Goa, Kerala & Mahe; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal & Sikkim, Assam & Meghalaya, Gujarat Region, Vidarbha, Coastal Andhra Pradesh & Yanam, Coastal Karnataka; at many places over Interior Karnataka, Tamilnadu, Puducherry & Karaikal; at a few places over Odisha; at isolated places over West Uttar Pradesh, Nagaland, Manipur, Mizoram & Tripura and Andaman & Nicobar Islands. They are below normal (- 1.6°C to -3.0°C) at isolated places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and East Rajasthan and near normal over rest parts of the country. Today, the Lowest minimum temperature of 4.3°C reported at Churu (West Rajasthan) over the plains of the country.
- Maximum Temperature Departures (as on 09-12-2021): Maximum temperatures were appreciably above normal (3.1°C to 5.0°C) at many places over Arunachal Pradesh and Assam & Meghalaya; above normal (1.6°C to 3.0°C) at many places over Jammu & Kashmir, Ladakh, Gilgit-Baltistan & Muzaffarabad and Bihar and at isolated places over Himachal Pradesh, West Uttar Pradesh, Sub-Himalayan West Bengal & Sikkim, Vidharbha, Tamilnadu, Puducherry & Karaikal and Kerala & Mahe. They were appreciably below normal (- 3.1°C to -5.0°C) at many places over West Madhya Pradesh; at a few places over Odisha and at isolated places over Gangetic West Bengal, East Madhya Pradesh and Rayalaseema; below normal (-1.6°C to -3.0°C) at many places over East Rajasthan; at a few places over Coastal Andhra Pradesh & Yanam and at isolated places over Gujarat State, East Uttar Pradesh, Andaman & Nicobar Islands and Madhya Maharashtra and near normal at rest parts of the country. Yesterday, the highest maximum temperature of 35.0°C was reported at Karwar (Coastal Karnataka). * Red color warnin

Weather Warning during the next 5 days (IMD)

- 10 December (Day 1): Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal and Coastal Andhra Pradesh & Yanam.
- 11 December (Day 2): Nil.
- 12 December (Day 3): Thunderstorm accompanied with lightning very likely at isolated places over Tamil Nadu, Puducherry & Karaikal.

- 13 December (Day 4): Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep.
- 14 December (Day 5): Thunderstorm accompanied with lightning likely at isolated places over Tamil Nadu, Puducherry & Karaikal, Kerala & Mahe and Lakshadweep
- The weather outlook for seven days i.e., 10 Dec to 18 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)

Jammu

Weather condition:

Mainly clear weather prevailed during this week. The maximum temperature remains above normal by 1 to 3 0C and remains in the range of 22.6 to 27.0 0C, while minimum temperature remain variable and was recorded in the range of 6.0 to 12.0 0C. The morning and evening relative humidity was observed in the range of 76 to 93 % and 34 to 88 %, respectively. The total evaporation observed 19.8 mm and sunshine in the range of and 0.0 to 8.1 hrs during this period.

Contingency measure:

- Wheat: Early sown Late Sown CRI Sowing/ germination: Apply irrigation in the early sown wheat crop if is 22-30 days old. Application of 1st dose of nitrogenous fertilizer as top dressing after irrigation. Sowing of late sown wheat varieties may be continuing with the increase in seed rate. Treat the seed with vitavax or bavistin or agrozim @ 2g/kg of seed before sowing to avoid the crop from seed borne disease. Apply recommended dose of fertilizer as basal dose.
- Oilseed: Gobi sarson / Mustard Toria: Early vegetative Physiological Maturity Apply irrigation in the gobi sarso and mustard crop if crop is 30-35 days old, thereafter top dressing of Ist dose of nitrogen fertilizer. Farmer may go for hoeing, weeding and thinning under sown condition if crop is 20-25 days old. Farmer can go for threshing of already harvesting and threshing of toria crop without any further delay.
- Rabi pulses: Chickpea Lentil Branching Vegetative: Farmers may continue the nipping of chickpea crop if it is 3 to 5 weeks old crop. Farmer may go for hoeing and weeding thinning if crop is 25-30 days old.

- Vegetables: Onion Cole Crops: Cabbage, broccoli, cauliflower, Knoll khol Leafy vegetables Potato/Radish/ turnip/ carrot: Nursery raising Vegetative Reproductive Vegetative/ first cut 3-4 leaves Give irrigation in vegetable crops as per requirement. Raise nursery for onion crop (N-53, Selection-1, Pusa Red). Cover All the nursery beds with straw to maintain moisture and retain heat for proper germination. Due to favorable weather condition for outbreak of cabbage butterfly, and caterpillar in cole crops under such situation spray the crop with Imidacloprid @ 1mk/3lt of water to control. Harvesting of crop if proper size maintain. Give shallow hoeing to crops like spinach, coriander and fenugreek after first cut and apply urea @ 1kg/kanal. Earthing up is recommended to protect the crops from direct sunlight. Apply urea @ 1-1.5 kg/kanal after the receipt of rain. Spray malathion/cypermethrin @ 1ml/lit water, if attack of saw fly is observed. To control late blight in potato, give prophylactic spray of Dithane M-45 @ 2.5gm/lit of water.
- Fodder (Berseem): Irrigated Vegetative: Irrigate the berssem crop and top dressing with urea after each cut is recommended.
- Floriculture: Marigold Rose Transplanting Post flowering: Remove the stock sprout, suckers and water sprout from budded/grafted plants. Pinching in early transplanted crop of marigold is recommended. Pruning of old branches is recommended.
- Horticulture: Young Give light spray of Urea to weak and pale plants. Remove the water suckers and keep the area clean.
- Button mushroom (A bispora): Pin initiation: Maintain temperature 16°C to 18°C in the cropping room. Provide proper ventilation in the cropping room. Maintain proper hygienic conditions in and around growing rooms. Spray chlorothalonil 0.05% if any competitor mould is observed. Maintain strict vigilance.
- Sericulture: Mulberry Silkworm crop: Tree plantation Post Harvest Remove dead wood from mulberry plants. Cocoons harvested during October should be loosely packed in muslin cloth bags. The bags should be kept in wire mesh covered racks to avoid rodent attack till marketing. Cocoon bags should be kept in well ventilated rooms to avoid dampness.
- Apiculture: Migrate colonies to areas having floral resources (near toria/vegetable crops). Provide winter packing to bee colonies to protect them from cold. Reduce the entrance.
- Live stock: Dairy animals, Sheeps and Goats Give Calcium as supplement in the diet of dairy animal as rice straw feeding leads to depletion of Ca levels in the blood thereby reduces milk yield and general health condition. Deworming is

recommended against helminths using fenbendazole or closantel.

- Fisheries: Fingerling/advanced fingerlings Apply regular supplementary feed on daily basis @ 2-3% of estimated total fish biomass in the pond. In case of appearance of algal bloom in the fish pond, farmers should not further add any manure/fertilizer/feed for some days. Remove algal bloom by the addition of fresh water in to the fish pond.
- Poultry: Poultry houses should be provided with good source of light and heat. There should not be huddling of chicks, maintain the temperature of 37°C. Deworm the birds. *Cover face with thick cloth or wear mask and maintain social distance while doing agricultural operations in field

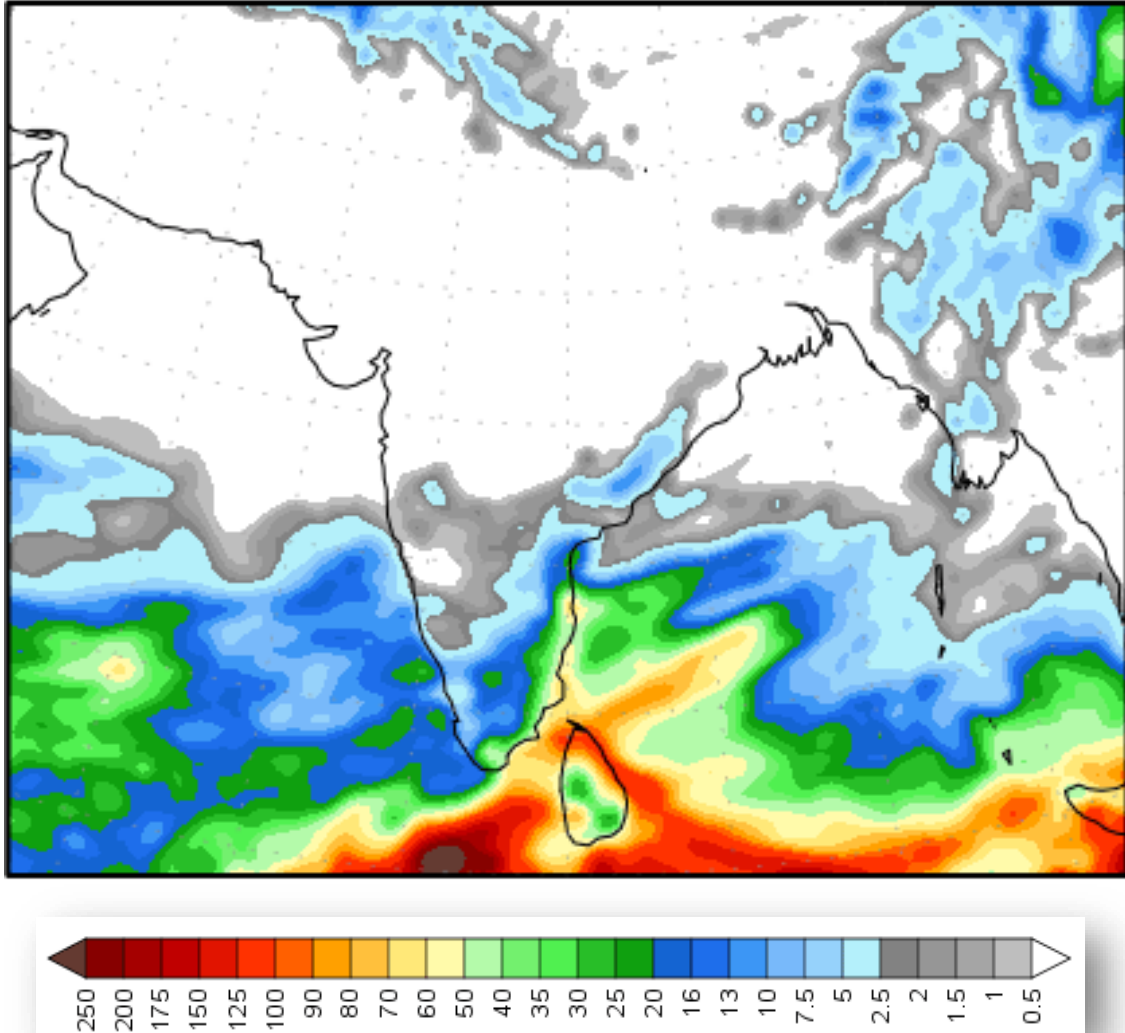


Figure:2. Precipitation forecast for 10 Dec to 18 Dec 2021 (Source: NOAA NCEP).

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