

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 09 March 2022**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- Weather systems and Warnings:
- Due to wind confluence and a trough in easterlies from Kerala to north Madhya Maharashtra in lower tropospheric levels:
  - i) Isolated light to moderate rainfall/thundershowers very likely to continue over Kerala & Mahe during next 5 days and over Coastal & South Interior Karnataka during next 2 days.
  - ii) Isolated light/moderate rainfall/thundershowers very likely to continue over Maharashtra, Rajasthan and West Madhya Pradesh on 09th & 10th March.
- Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places very likely over south Rajasthan, West Madhya Pradesh, north Madhya Maharashtra & adjoining Marathwada during next 24 hours.
- A Western Disturbance as a trough in middle & upper tropospheric westerlies runs along Long.67°E to the north of Lat. 22°N. Under its influence, isolated light/moderate rainfall/snowfall very likely over Jammu-Kashmir-Ladakh-Gilgit-Baltistan Muzaffarabad during next 24 hours and over Himachal Pradesh & Uttarakhand on 10th March, 2022.
- The images showing the latest satellite picture in the figure. 1.

#### **Main Weather Observations (IMD)**

- Rainfall/thundershower observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Rajasthan, Uttarakhand, West Madhya Pradesh, Gujarat Region, Madhya Maharashtra, Vidarbha, Coastal & South Interior Karnataka, Kerala & Mahe and Tamil Nadu.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over East Rajasthan, north Madhya Maharashtra, Coastal Karnataka and Kerala. Isolated hailstorm observed over southeast Rajasthan and north Madhya Maharashtra.
- Heavy Rainfall observed at isolated places over Tamil Nadu.

- Maximum Temperature Departures (as on 08-03-2022): Maximum temperatures were markedly above normal (5.1°C or more) at a few places over Assam & Meghalaya and Sub-Himalayan West Bengal & Sikkim; at isolated places over Himachal Pradesh and Arunachal Pradesh; appreciably above normal (3.1°C to 5.0°C) at many places over Nagaland, Manipur, Mizoram & Tripura; at a few places over Punjab and Konkan & Goa and at isolated places over Coastal Andhra Pradesh; above normal (1.6°C to 3.0°C) at many places over Uttarkhand, Saurashtra & Kutch and Coastal Karnataka; at a few places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, West Rajasthan and Kerala & Mahe and at isolated places over Haryana, Chandigarh & Delhi, Gujarat Region, Gangetic West Bengal and Odisha. They were markedly below normal (-5.1°C or less) at isolated places over West Madhya Pradesh; below normal (-1.6°C to -3.0°C) at a few places over East Uttar Pradesh and Tamil Nadu Puducherry & Karaikal and at isolated places over Vidarbha and near normal over rest parts of the country. Yesterday, the highest maximum temperature of 38.5°C was reported at Nalgonda (Telangana) over the country.
- Minimum Temperature Departures (as on 09-03-2022): Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at many places over Gujarat Region; at isolated places over Saurashtra & Kutch, East Rajasthan, Konkan & Goa and Madhya Maharashtra; above normal (1.6°C to 3.0°C) at many places over Jammu-Kashmir-Ladakh-Gilgit-Baltistan-Muzaffarabad, Himachal Pradesh, West Uttar Pradesh, West Rajasthan, Coastal Karnataka and Assam-Meghalaya; at a few places over Haryana-Chandigarh-Delhi, Andaman & Nicobar islands, Sub-Himalayan West Bengal & Sikkim and Kerala-Mahe and at isolated places over West Madhya Pradesh. They are below normal (-1.6°C to -3.0°C) at many places Gangetic West Bengal; at a few places over East Madhya Pradesh and Rayalaseema and isolated places over Vidarbha, Telangana and Tamilnadu-Puducherry-Karaikal and near normal over rest parts of the country. Today, the lowest minimum temperature of 9.2°C is reported at Fatehgarh (East Uttar Pradesh) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 09 March (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places very likely over East Rajasthan; with lightning & hail at isolated places north Madhya Maharashtra and Marathwada; with lightning & gusty winds (speed reaching 30-40 kmph gusting to 50 kmph) at isolated places over West Madhya Pradesh and West Rajasthan and with lightning at isolated places over south Haryana,

Vidarbha, Konkan-Goa, Coastal & South Interior Karnataka, Kerala-Mahe and Andaman & Nicobar Islands.

- 10 March (Day 2): Thunderstorm accompanied with lightning at isolated places very likely over north Madhya Maharashtra and Marathwada.
- 11 March (Day 3): No weather warning.
- 12 March (Day 4): No weather warning.
- 13 March (Day 5): No weather warning.
- The weather outlook for seven days i.e., 09 Mar to 17 Mar 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)**

### **Konkan region**

#### **Weather condition:**

Atmospheric condition was cloudy during morning hours around Dapoli during last week. Therefore 7.3 to 9.6 Bright sunshine hours was recorded during last week. During last week 0.0 mm rainfall was recorded at Agrometeorological observatory, Dr. B.S.K.K.V. Dapoli. The maximum and minimum temperature ranged from 32.5 to 36.1 and 13.3 to 14.3°C respectively. Wind velocity ranged from 2.5 to 3.4 km and wind was blowing from south westerly Direction.

#### **Contingency measure:**

- General advisory: Due to forecast of Thunderstorms accompanied with lightning, keep farm animals at safe place and away from open water, pond or river
- SMS advisory: There is forecast of light rainfall at isolated places from 8th to 9th March 2022, keep harvested turmeric, black pepper, cashewnut, pulses at protective and safe place for drying
- Lablab bean, cowpea: Due to forecast of light rainfall at isolated places from 8th to 12th March 2022, harvest matured lablab bean, cowpea crop and keep for drying at safe and protective place
- Mango: Due to forecast of light rainfall at isolated places from 8th to 12th March 2022, hence to protect the mango fruits from rain water and fruit fly, bagging with newspaper bag of size 25 X 20 cm at marble to egg stage as per recommendation of D.B.S.K.K.V. Care should be taken that avoid injury to fruit stalk while bagging fruits with paper bag. Due to forecast for light rainfall from 8th to 12th March 2022, harvest the mature mango fruits by observing rainfall situation before 10 am in the morning and after 4 pm in the evening with the help

on mango harvester at 80 to 85% maturity. Keep the harvested fruits in shade to prevent spongy tissue disease and from heat. Do not spray any insecticides/fungicides 15 days before harvesting of mango fruits. To prevent incidence of post-harvest diseases on fruits, place the fruits in hot water of 52°C for 10 minutes and then keep for ripening. Use C.F.B. (corrugated fiber box) for packing. Transport of harvested fruits should be done preferably during night hours. Due to forecast for gradual rise in temperature and decrease in humidity, possibility for pre-mature fruit drop in mango and sun scorching, to minimize fruit drop, as per availability of water, apply 100 liter /tree at weekly or 150 to 200 liter/ tree at 15 days interval also use straw mulch. There is possibility for incidence of fruit fly on mango fruits of egg size. Collect and destroy all fallen fruits and install ?Rakshak fruit fly trap? developed by University @ 2 traps per acre. There is forecast for partly cloudy weather and light rainfall from 8th to 12th March 2022, there is possibility of incidence of anthracnose disease on fruits of mango, if rainfall received then undertake the protective spraying for anthracnose disease, spray Carbendazim 12% + Mancozeb 63% @ 10 g per 10 liter of water. There is possibility for incidence of powdery mildew disease, if incidence is noticed spray wettable Sulphur 80% @ 20 gm per 10 liter of water. Due to forecast for cloudy weather, there is possibility incidence of thrips on mango, if incidence is noticed, spray Spinosad 45%SC @ 2.5 ml per 10 liter of water. If incidence is severe, then take second spray of Thiomethoxam 25%WG @ 2 gm per 10 liter of water. Due to forecast for cloudy weather, there is possibility incidence of hoppers on mango inflorescence. For management of pest, spray of Imidacloprid 17.8% SL @ 6 ml or Buprofezin 25%SC @ 20 ml per 10 liter of water. To protect the mustard size fruits of mango from hoppers as per blossom protection schedule for mango crop, take a fourth spray of Thiomethoxam 25%WG @ 1 gm per 10 liter of water and fifth spray (15 days after 4th spray) of Dimethoate 30%EC @ 10 ml or Lambda cyhalothrin 5%EC @ 6 ml per 10 liter of water.

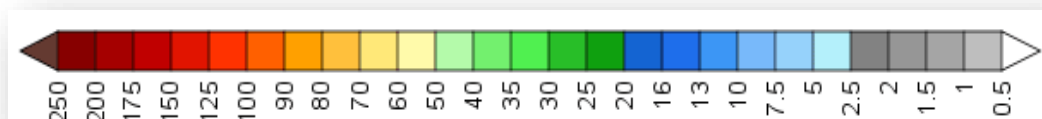
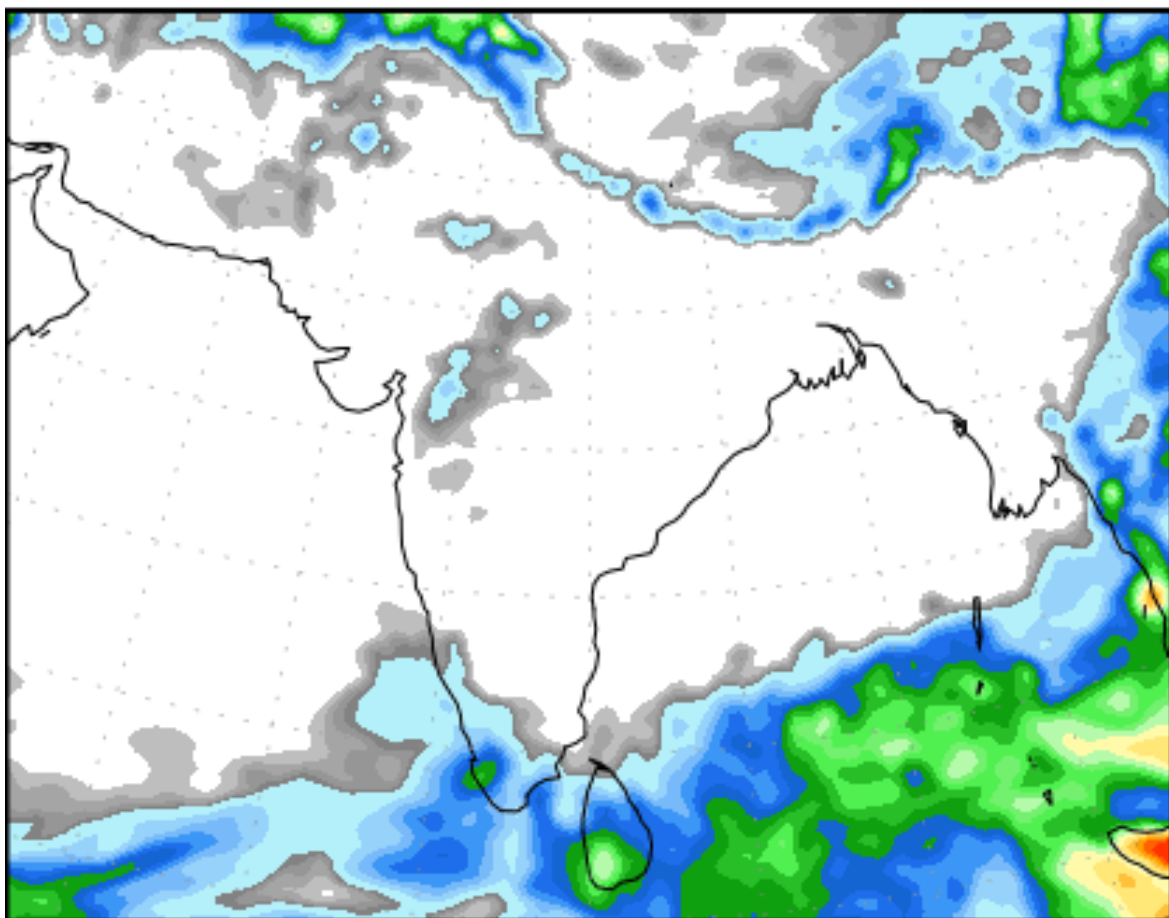
- Cashewnut: There is possibility of incidence of tea mosquito bugs and aphids on the fruits of cashewnut, to protect the cashew during fruit bearing stage, spray Lambda cyhalothrin 5% EC @ 6 ml or Acetamiprid 20%SP @ 5 gms per 10 liter of water during clear weather. (insecticide is not under label claim). Due to forecast for rain, keep harvested nuts for drying at safe and protective place
- Arecanut: Due to forecast light rainfall at isolate places on 8th to 13th March, 2022, keep the harvested nuts for drying at safe place
- Water melon: Due to cloudy weather, possibility for incidence of blight disease on water melon, if incidence is noticed, remove and destroy infected leaves and

spray Mancozeb 75% WP @ 25 gm 10 liters of water

- Animal husbandry: There is possibility of increase in temperature hence Provide clean, hygienic and plenty amount of drinking water to farm animals. To reduce the stress of heat in farm animals, provide roughages by mixing with solution of 1% gagger and 0.5% salt separately. To protect animals from heat, sprinkle cold water on animals during the afternoon, it will help to maintain the body temperature.
- Poultry: There is possibility for increases in temperature during day hence protect poultry birds from heat. In poultry shed, increase the water pot and provide adequate and clean water for drinking.







**Figure:2. Precipitation forecast for 09 Mar to 17 Mar 2022 (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.*