

All India Coordinated Research Project on Agrometeorology

CRIDA, Santoshnagar, Hyderabad – 500 059

Daily Crop Weather Information as on 03 April 2020

Attention: Rajiv Maheshwari, OSD, ICAR

Significant Weather Features (IMD)

- The Western Disturbance as a trough in westerlies in mid tropospheric levels with its axis at 5.8 km above mean sea level has moved away northeastwards. Generally, northerly/northwesterly winds are prevailing over northwest India. As a result, weather is likely to remain dry over this region for the next 2 days.
- Isolated thunderstorm accompanied with hail, lightning and gusty winds (speed reaching 30-40 kmph) very likely over northeast India during next 48 hours.
- Parts of central, east and south peninsular India are likely to experience isolated thunderstorm activity during next 48 hours.
- A fresh Western Disturbance is likely to affect northwest India from the night of 5th April. Under its influence, isolated to scattered rain/thundershower is likely over Western Himalayan region and adjoining plains during 06th-07th April, 2020 with maximum intensity on 07th April.
- The images showing the latest satellite picture in the figure. 1.

Main Weather Observations (IMD)

- Rain/Thundershowers observed (0830 hours IST of yesterday to 0830 hours IST of today): at a few places over Jammu, Kashmir, Ladakh, Baltistan & Muzaffarabad, Himachal Pradesh, Nagaland, Manipur, Mizoram & Tripura; & Arunachal Pradesh and at isolated places over Uttarakhand, West Bengal & Sikkim, Odisha, Assam & Meghalaya and Telangana.
- Thunderstorms observed (0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Himachal Pradesh, Arunachal Pradesh, Nagaland, Manipur, Mizoram & Tripura and Assam & Meghalaya.
- Maximum Temperature Departures as on 02-04-2020: Maximum Temperature were appreciably above normal (3.1°C to 5.0°C) at isolated places over Assam & Meghalaya, Saurashtra & Kutch, West Madhya Pradesh, Tamil Nadu, Puducherry & Karaikal & Kerala; above normal (1.6°C to 3.0°C) at most places over Sub-Himalayan West Bengal and Lakshadweep; at many places over Konkan & Goa;

at a few places over Rayalaseema and at isolated places over Odisha, Madhya Maharashtra, Karnataka, Nagaland, Manipur, Mizoram & Tripura and East Madhya Pradesh. They were appreciably below normal (-3.1°C to -5.0°C) at a few places over Jammu & Kashmir and Ladakh, Himachal Pradesh, Haryana, Chandigarh & Delhi and at isolated places over Punjab and Arunachal Pradesh; below normal (-1.6°C to -3.0°C) at a few places over Rajasthan and at isolated places over Uttar Pradesh 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).

- Minimum Temperature Departures as on 03-04-2020: Minimum temperatures are appreciably above normal (3.1°C to 5.0°C) at isolated places over Madhya Maharashtra; above normal (1.6°C to 3.0°C) at most places over North Interior Karnataka; at a few places over Saurashtra & Kutch, Telangana; and Andaman & Nicobar Islands; at isolated places over Gujarat region, West Madhya Pradesh, Bihar, Sub-Himalayan West Bengal & Sikkim, Coastal Odisha and Coastal Karnataka. They are markedly below normal (-5.1°C or less) at isolated places over Himachal Pradesh; appreciably below normal (- 3.1°C to -5.0°C) at a few places over Haryana, Chandigarh & Delhi; at isolated places over Jammu & Kashmir; below normal (-1.6°C to -3.0°C) at most places over Punjab, Uttarakhand; at isolated places over Rajasthan, East Madhya Pradesh and Vidarbha and near normal over rest parts of the country. Today, the lowest minimum temperature of 10.8°C recorded at Amritsar (Punjab) over plains of the country.

Weather Warning during the next 5 days (IMD)

- 03 April (Day 1): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya and Nagaland, Manipur, Mizoram & Tripura and with lightning at isolated places over Marathwada, Vidarbha, south Chhattisgarh, Odisha, Gangetic West Bengal and Coastal Andhra Pradesh & Yanam.
- 04 April (Day 2): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Vidarbha and south Chhattisgarh; with lightning at isolated places over Marathwada and Odisha.

- 05 April (Day 3): Thunderstorm accompanied with lightning & lightning at isolated places over East Madhya Pradesh, Odisha, Marathwada, Tamil Nadu, Puducherry & Karaikal.
- 06 April (Day 4): Thunderstorm accompanied with lightning & gusty winds (speed reaching 30- 40 kmph) likely at isolated places over Punjab, Haryana, Chandigarh & Delhi, Odisha, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka, Kerala & Mahe; with lightning at isolated places over Jammu, Kashmir, Ladakh Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, East Madhya Pradesh, Vidarbha, Chhattisgarh, Telangana, Rayalaseema. Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.
- 07 April (Day 5): Thunderstorm accompanied with lightning, hail & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Uttarakhand and Himachal Pradesh; with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over Sub-Himalayan West Bengal & Sikkim, Jharkhand, Punjab, Haryana, Chandigarh & Delhi, West Uttar Pradesh, East Madhya Pradesh, Coastal Andhra Pradesh & Yanam, Rayalaseema, Tamil Nadu, Puducherry & Karaikal, South Interior Karnataka and Kerala & Mahe; with lightning at isolated places over East Uttar Pradesh and Bihar. Duststorm/Thunderstorm accompanied with lightning & gusty winds (speed reaching 30-40 kmph) likely at isolated places over north Rajasthan.
- The weather outlook for seven days i.e., 03 to 11 April 2020 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)

Karnataka

Weather condition:

Dry and hot weather with slightly above normal day temperatures prevailed during the previous week.

Contingency measure:

- Start sowing culsterbean and cowpea for vegetable purpose. Farmers are advised to procure quality seeds for green gram from certified source and start sowing during this week.

- Weather Based Agro-advisories Plant Protection As per the forecast given by the India Meteorological Department, hot and dry weather will prevail during the day in the district during the next five days. Plant protection measures may be taken up.
- Threshing: As per the forecast given by the India Meteorological Department, hot and dry weather will prevail in the district during the next five days. threshing of chickpea, safflower, rabi sorghum and other matured crops may be taken up.
- Conservation fo soil, water and fodder: Land should be ploughed and the crop residue should be incorporated in the soil. This facilitates in situ conservation of water during the pre-monsoon rains and also helps to conserve the soil. The left over crop residue should not be burnt. It can be used for making compost or vermicompost. Heaping of fodder, straw may be completed as early as possible to prevent the damage of fodder
- Resein making in grapes: Since dry and hot weather will be prevail in the district during the coming five days, resein making in grapes may be continued.
- Livestock management during summer: the following measures should be adopted to take care of heat stress livestock during summer season. It is advisable to leave the buffaloes in ponds during afternoon hours or sprinkle the cold water 2-3 times a day on the body of the animal to overcome the heat. Apply 4-6 inch thick hay thatch as a roofing material. Water can be used for spraying the floor and roof of shelter periodically during peak hot hours which lowers the temperature and consequently reduces the heat load on animals. Proper ventilation should be maintained for free circulation of air in the sheds. Animals may preferably be grazed during early morning and late evening to avoid exposure to extreme hot conditions and during hot hours, they must be tied and fed in shaded place or under the tree. This will also help in reducing the water requirement. Clean drinking water be provided to animals and water troughs should be regularly cleaned. Vaccinate livestock against Foot and Mouth disease (FMD vaccination), Black Quarter disease (BC vaccination) and Haemorrhagic Septcaemia. Care should be taken that maintain sufficient moisture in the Vermin-compost pits. Vaccinate (ET vaccine) sheep and goats against Enterotoximia.
- Agro-advisories FIELD CROPS: Onion: To manage purple blotch disease and thrips, take up spraying of 1.0 ml Hexoconazole + 0.25 ml Acetamaprid + 1 garm Boron dissolved in one liter of water.
- Groundnut: If iron and zinc deficiency was noticed on the crop. Immediately take up Foliar Spray of 0.5 % Ferrous sulphate or 0.5 % Zinc sulphate. To manage leaf

minor take up spraying of Carbaryl 50WP 0.2% Spray or Dimethoate 30 EC (2 ml/lit). – To manage tikka disease in Groundnut, take up spraying of 0.5 gram Carbandizem or 2.0 gram Chlorothalonil or 1 ml Hexaconazole dissolved in one liter of water.

- Sugarcane: To save water irrigate the crop in alternate row. Drip irrigation save the water up 40 per cent. Take up intercultivation at 50, 65, 80 and 95 Days after planting and earthing up should be done at 120 days after planting. Heavy and early earthing up of ratoons ensure optimum plant density with good yield and quantity. Where the crop is at tillering stage, irrigate the crop once in 10 days. Do not burn the trash after harvesting the crop. Spread the trash in between the rows and use trash decomposing microorganism fertilizer to decompose. Cut the stubbles to the ground level to facilitate uniform germination and deeper rooting and ratooning. Spread trash in between two rows and apply 20 Kg Urea and 20 Kg Super Phosphate per acre on the trash. Apply 2 to 2.4 Kg trash decomposing bacteria mixed in water and dung on the trash. Irrigation water management during summer: Spread trash in the alternate furrows and give irrigation to other furrows only. Spread 1 kg of trash decomposing microorganism for every one ton of trash. Before giving last irrigation apply 20 Kg Murate of Potash fertilizer per acre and spread trash in all the furrows.
- HORTICULTURAL CROPS: Citrus: To manager canker disease, remove the dried branches and take up spraying of 1 per cent Boraux mixture. To manage Gummosis and wilt diseases, paste the gum prepared by mixing 4 gram Ridimil gold + 3 gram Blitox + 50 gram Red Oxide in one liter of water and pour 2-3 liters of mixture prepared by dissolving 5 ml Hexaconazole in one liter of water at the bottom of the plant. To manage mites in citrus spray the crop with 2.0 ml Dicofal or 0.75 ml Oberon dissolved in one liter of water.
- Pomegranate: To manage sucking pests, take up spraying of 0.3 ml Imidacloprid or 0.25 ml Thiamethaxam dissolved in one liter of water. To manage Bacterial blight disease, spray the crop with streptomycin sulphate 0.5 g. + copper oxychloride 2 g. dissolved in one liter water. Then take up spraying of micro nutrients viz., 1 g. Zinc Sulphate + 1 g. Magnesium Sulphate + 1 g. Barax + 1 g. Calcium dissolved in one liter of water.
- Mango: To manage, sucking pests and powdery mildew: Spray crop with mixture of malathion @ 2 ml + wettable sulphur @ 3 g or carbendizeme @ 1g/l. Repeat the same spray if necessary at an interval of 15 days. Watermillon, Bhendi and tomato: To manage sucking pests in watermillon, Bhendi and tomato, take

up spraying of 1.7 ml Dimethoate or 2 ml Melathion and 1 per Joggery syrup dissolved in one liter of water.

- Brinjal: To manage branch cutting and fruit borer in Brinjal, remove the infested branch along with the larva and burn. After this spray the crop with Carbaryl 4 g. or Melathion 2 ml or Quinolphos 2 ml dissolved in one liter of water. Repeat the same spray at 15 days interval.

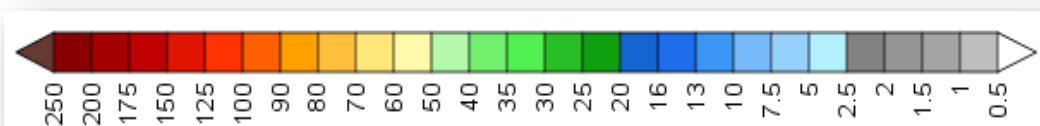
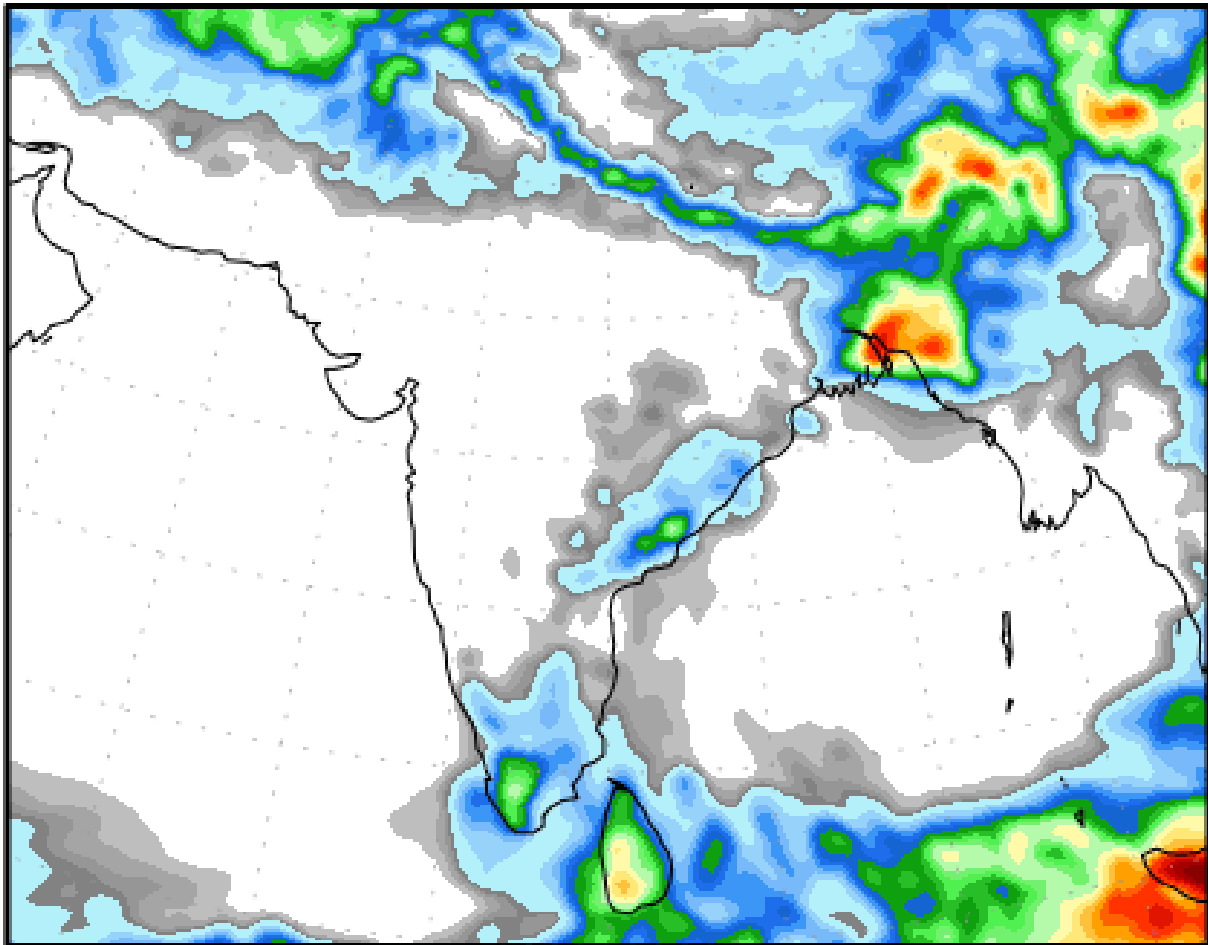


Figure:2. Precipitation forecast for 03 to 11 April 2020 (Source: NOAA NCEP).

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.