Gramin Krishi Mausam Sewa

Agromet Advisory Bulletin for NAGPUR District

Central Institute for Cotton Research,

Nagpur

Agromet Advisory Bulletin

Date : 2025-04-17

Weather Forecast of District NAGPUR (Maharashtra) Issued On : 2025-04-17 (Valid Till 08:30 IST of the next 5 days)

Parameter	2025-04-18	2025-04-19	2025-04-20	2025-04-21	2025-04-22
Rainfall(mm)	4.1	0.0	0.0	0.0	0.0
Tmax(°C)	42.2	43.5	43.6	43.4	44.3
Tmin(°C)	27.2	29.5	28.7	29.4	28.6
RH-I(%)	61	48	40	42	50
RH-II(%)	32	22	18	28	22
Wind Speed(kmph)	11	14	14	14	7
Wind Direction(Degree)	204	315	307	272	180
Cloud Cover(Octa)	4	2	1	2	2
Warning	No Warning	No Warning	No Warning	No Warning	No Warning

Forecast Summary:

• As per the district level value added forecast given by, IMD, RMC, Nagpur, sky will be clear to partly cloudy during next 5 days i.e. 18 to 22 April, 2025. • Very light to light rainfall is likely to occur at isolated places on 18 April, 2025. • Weather is likely to be 19, 20, 21 and 22, April, 2025. • During next 5 days, Maximum temperature is likely to be occurs between 44.2 to 44.3 degree Celsius, whereas minimum temperature is likely to be occur between 27.2 to 29.5 degree Celsius. Morning relative humidity is likely to be occurs between 40 to 61 per cent, whereas afternoon relative humidity is likely to be occurs between 18 to 32 per cent. • There will be gradual rise in maximum temperature by 2-3 degree Celsius in next 5 days over the Vidarbha.

Weather Warnings (Valid Till 08:30 IST of the next day)

• Nil

Likely impacts of weather warnings on Agriculture and associated Agromet advisories

No warning

General Advisory:

• Intercultural operations (hoeing, weeding, etc.) in seasonal crops, orchards, and vegetable crops, spraying of agrochemicals for pest and disease management and fertilizer application in standing crops should be continue for the next 5 day. • During summer months mulching around tree trunk up to 5-10 cm should be done with wheat straw, paddy straw or uprooted weeds so that, evaporation of water due to high temperature can be minimized which helps in reducing fruit crop. • Summer groundnut crop should be irrigated with two rows at an interval of 8 to 10 days. • Irrigate the onion crop after transplanting, subsequently at 7-10 days interval depending upon the soil moisture • Garlic crop requires less but regular irrigation. After germination, irrigation should be given at intervals of 8 to 10 days according to the soil moisture status and crop need.

SMS Advisory:

• Summer groundnut crop should be irrigated with two rows at an interval of 8 to 10 days.

Crop Specific Advisory:

Crop (Stage)	Crop Specific Advisory
GROUNDNUT	• Summer groundnut crop should be irrigated with two rows at an interval of 8 to 10 days. • If the infestation of sucking pests (e.g.,Aphid, Jassids, Thrips is found in groundnut crop and if it is reaching economic loss level, spray with Imidacloprid (17.8% SL) 2.5 ml. or Lambda Cyhalothrin (5% EC) 5 ml. or Quinalphos (25% EC) 14 ml. mixed in 10 liters of water for management. • If the infestation of leaf-boring/rolling caterpillar is found in groundnut crop and if it is reaching economic loss level, spray with Deltamethrin (2.8% EC) 12.5 ml. or Quinalphos (25% EC) 20 ml. or Lambda Cyhalothrin (5% EC) 5 ml. mixed in 10 liters of water for management. • If the infestation of leaf-eating caterpillar is found in groundnut crop and if it is reaching the economic loss level, for management, Quinalphos (20% AF) 16 ml. or Methomyl 40 percent SP 15 g or Flubendiamide 20 percent WG. 6 g should be mixed in 10 liters of water and sprayed. • If the infestation of white grub is found and if it is reaching the economic loss level, for management, Carbofuron 3 percent granular 33 kg, should be mixed in the soil per hectare.
CITRUS	• Fruitlet blight: Black spots on the fruit are called fruitlet blight. • The fruits are injured due to the infestation of spider mites or Thrips, through which the bacteria Pantoea ananatis is transmitted and black spots appear on the fruits. • Deep, irregularly shaped dark black or brown spots appear on the skin of the affected small fruits. These spots feel oily when touched. Starting from small black spots, the entire fruit turns black, resulting in the fruits often falling off. • Management: To reduce the loss of small fruits caused by black spots, spray a mixture of copper oxychloride 50% WP 25 grams in 10 liters of water. • In order to get Mrig Bahar in citrus orchards in medium soil type, water stress should be applied for 50 days from 25th April to 15th June. • The citrus orchards with Ambia bahar fruits should be irrigated regularly. For this, drip irrigation method should be used. A 5-inch-thick cover of leafy greens, cow dung should be applied in the fall. This will reduce fruit drop. • The acid lime fruits of hand spring should be harvested, sorted and sold.

Horticulture Specific Advisory:

Horticulture (Stage)	Horticulture Specific Advisory
ONION	• Irrigate the onion crop after transplanting, subsequently at 7-10 days interval depending upon the soil moisture. • Foliar spray of Carbosulfan (2 ml/L) along with Tricyclazole (1 g/L) is recommended to control diseases and pests, if required. • Second foliar spray of profenophos (1 ml/L) along with Hexaconazole (1 g/L) is recommended after 15 days of previous spray, if required. • Third foliar spray of Fipronil (1 ml/L) along with Propiconazole (1 g/L) is recommended after 15 days of previous spray, if required.
GARLIC	• Garlic crop requires less but regular irrigation. After germination, irrigation should be given at intervals of 8 to 10 days according to the soil moisture status and crop need. Generally, 12 to 15 irrigations are required. • First prophylactic spray of Carbosulfan (2 ml/L) along with Tricyclazole (1 g/L) is recommended to control diseases and pests, if required. • Second spray of Profenophos (1 ml/L) along with Hexaconazole (1 g/L) is recommended after 15 days of first spray, if required. • If first two sprays were over, third spray of Fipronil (1 ml/L) along with Propiconazole (1 g/L) is recommended after 15 days of second spray, if required. • If there is incidence of red spider mite, foliar spray with elemental Sulphur (2 g/L) or dicofol (2 ml/L) is recommended.
MANGO	• Harvest the market ready fruits and sale.
WATER MELON	• Harvest the market ready fruits and sale. • Over watering frequently is not recommended as it promotes excessive vegetative growth. Stop the irrigation during ripening as it will adversely affect fruit quality and leads to fruit cracking. Don’t allow water stagnation. Avoid water stress during pre-flowering, flowering and fruit development stages. Irrigate only the root

Horticulture (Stage)	Horticulture Specific Advisory
	zones and avoid wetting the vegetative growth, flowers and fruits. • Prune the excessive vine growth manually to restrict vegetative growth and promote higher female: male flower ratio. If apical shoot is pinched and 2-4 side shoots are allowed to grow, it gives significantly higher yield. Thin the fruits to retain only maximum of 4-5 fruits per vine to improve fruit size and yield.
MANDARIN ORANGE	• Harvest the market ready fruits and sale. • Irrigation should be continued to maintain the fruit set of Ambia fruits. Frequency of the irrigation should be increased at 6-7 days interval due to ensuing summer season and high temperature. In Nagpur mandarin and sweet orange one year old tree should be given twice the amount and 3 yrs old tree given thrice the amount. 8 year old tree should be given 163 litres/day/tree while 10 yrs and above aged tree should be irrigated with 204 @ litres / day/tree. In acid lime(lemon)one year tree should be given 11 litres water/day/tree, 2 yrs tree be given 16 litres water/day/ tree, 8 yrs tree be given 65 litres/day/ tree while 10 yrs and above tree should be given 100 litres of water every day. • During summer months mulching around tree trunk up to 5-10 cm should be done with wheat straw, paddy straw or uprooted weeds so that, evaporation of water due to high temperature can be minimized which helps in reducing fruit crop. • Fertilizer should be applied at the rate of 108g urea or 250g ammonium sulphate and 157g single superphosphate along with 25g zinc sulphate, 25g ferrous sulphate and 25g manganese sulphate for one year old plant. For 2,3, and 4 years trees the rate should be two, three and four times of the quantity recommended for one year tree. Apply 20 to 25 kg farm yard manure to each tree in the soil. These fertilizers and FYM should be applied along the periphery of trees with care that fertilizers are applied to moist soil only. • Incidence of mites takes an alarming shape during this month. To combat this pest, spray of dicofol 1.8 EC @ 2 ml or propargite 1 ml per litre of water may be sprayed. Repeat second spray after 15 days interval. • The dead wood on the citrus trees should be kept pruned, about 2cm below the dead portion followed by spraying with carbendazim fungicide at the rate of one g per litre of water. • To check fruit drop during Ambia bahar, spray of solution containing 1.5g 2,4-D or Gibberellic acid 100g benomyl and 1kg urea dissolved in 100 liters of water is suggested. The interval spray may be reduced to 15 days if an excessive fruit drop continues. Regular monitoring of irrigation should be done. • For nurseries, soil preparation has to be done by spreading one part of virgin fertile soil, one part of sand and one part of FYM on concrete floor raised up to 1.5ft in height. Drench the bed completely with water and cover it up with 100 micron thick polythene sheet. The sides of the sheet should be sealed to avoid vapour loss.

Live Stock Specific Advisory:

Live Stock	Live Stock Specific Advisory
COW	• To obtain summer fodder, sorghum, maize and millet should be cultivated. For this, varieties of sorghum such as Ruchira, SSG-59-3, Maldandi 35-1, Pusa Chari and Amrita, varieties of maize such as African Toll, Manjari Composite, Vijay and Ganga Safed-2 and varieties of millet such as Giant Bazaar, K 674, 677 Rajko, Bajra, Nutrifeed should be cultivated. To obtain fodder, sorghum, maize and millet should be cultivated in the month of March-April. Sowing of sorghum, maize and millet should be done with the help of a seeder keeping a distance of 30 cm between two rows. • To increase milk production, clean water should be available to dairy cows/buffaloes 24 hours a day to drink whenever they want. The water trough should always be kept clean and limed. The water trough should always be kept in the shade and in a place where bird droppings do not fall into the water. • Fodder and water should be provided to the animals in the barn.

Likely impacts of weather warnings (General)

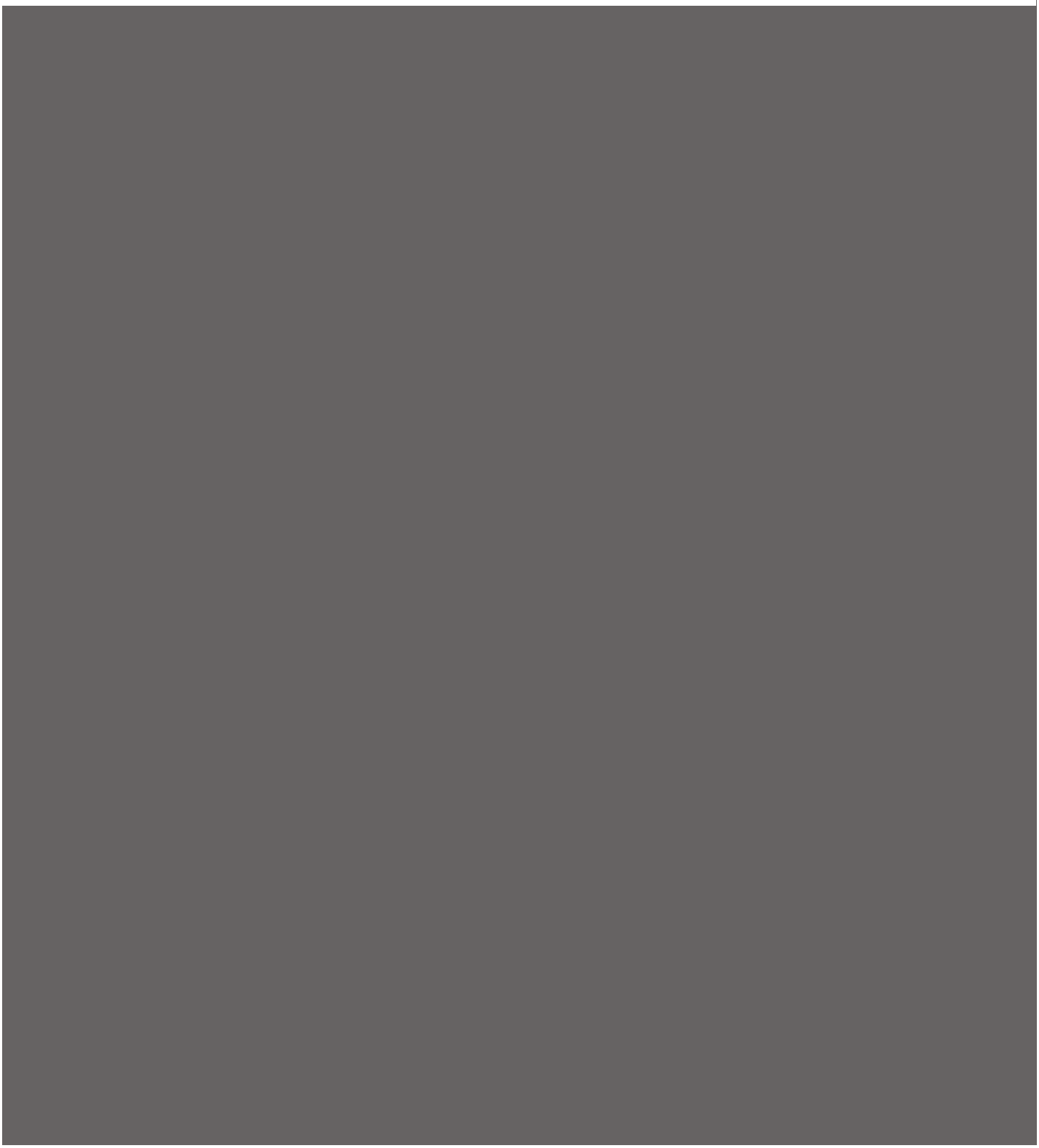
NIL

Impact based advisories (General)

NO WARNING

Farmers are advised to download Unified “Mausam” and "Meghdoot" android application on mobile for Weather forecast and weather based Agromet Advisories and "Damini" android application for forecast of Thunderstorm and lightening.

Mausam MobileApp link: https://play.google.com/store/apps/details/

Meghdoot MobileApp link: https://play.google.com/store/apps/details

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