



Gramin Krishi Mausam Sewa
District Level Agromet Advisory Bulletin
Central Institute for Cotton Research,
Nagpur



Agromet Advisory Bulletin

Date : 12-04-2022

Weather Forecast of District NAGPUR(Maharashtra) Issued On : 2022-04-12(Valid Till 08:30 IST of the next 5 days)

Parameter	2022-04-13	2022-04-14	2022-04-15	2022-04-16	2022-04-17
Rainfall(mm)	0.0	0.0	0.0	0.0	0.0
Tmax(°C)	41.0	41.0	41.0	41.0	42.0
Tmin(°C)	26.0	26.0	26.0	26.0	27.0
RH-I(%)	55	53	51	54	52
RH-II(%)	25	23	21	24	22
Wind Speed(kmph)	13.0	12.0	9.0	14.0	10.0
Wind Direction(Degree)	197	158	335	302	302
Cloud Cover(Octa)	4	3	2	2	1

Weather Summary/Alert:

In Nagpur district, as per the district level value added forecast given by, IMD, RMC, Nagpur, sky will be clear to partly cloudy and weather is very likely to be dry during next five days i.e. 13th, to 17th, April, 2022. The maximum and minimum temperature will be 41.0 to 42.0 and 26.0 to 27.0 degree Celsius respectively and average wind speed will be 9.0 to 14.0 kilometre per hour during next five days. As per the extended range forecast system in Vidarbha Sub Division during 17th, April, 2022 to 23rd, April, 2022 maximum temperature will be below normal and minimum temperature will be normal.

General Advisory:

It is advised to carry out deep ploughing after harvesting of rabbi crop field, which will help in warming the soil, help in eradication of insect pupae and harmful fungi, and improve soil tillage for sowing. Soil samples should be taken for soil testing and sent to authorised or government soil testing laboratory with appropriate charges. Sugarcane, summer groundnut, sesame and green gram should be irrigated at intervals of 6 to 7 days keeping in view the available soil moisture and crop requirements. Green shade net should be used to protect summer vegetable crop from heat. Increase the frequency of irrigation at critical growth stages.

SMS Advisory:

Remaining harvesting and threshing of chickpea and wheat should be finished after maturity and store the harvested produce in safer places.

Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
SUGARCANE	Apply 2 bag of urea to Suru sugarcane planted in the month of February (after 8 to 10 weeks) and irrigate their after.

Crop(Varieties)	Crop Specific Advisory
GROUNDNUT	Apply light and frequent irrigation to groundnut crop at an interval of 8 to 10 days according to requirement of crop and considering soil type. Avoid over irrigation/water stagnation to prevent the incidence of root rot. During peg formation to pod development stage, care should be taken to avoid water stress. If possible, sprinkler should be used for irrigation. For control of rust and tikka (leaf spot), spraying should be done of Tebuconazole 25 % WG 500-750 gm per hectare mix with 500 litre) of water. (10 to 15 gram/10 litre of water. For control thrips, when ETL cross (5 thrips per three leaves), then spraying should be taken of Quinalphos 25 % EC (28 ml/10 liter of water) 1400 ml/hectare in 500 litres of water.
RICE	Pest and Disease management: - Stem borer: - Bio-control: - Pheromone traps should be set 20 per ha. Trichogramma japonicum (Trichocard) is a parasitic insect release 50,000 eggs per hectare 3 to 4 times every 7 days. Chemical control: - Spray Chlorantraniliprole 0.4% G @ 10 kg. or Cartap Hydrochloride 4 G @ 18 kg. or Fipronil 0.3 G @ 25 kg. apply per hectare when there is water in paddy bund or apply Chlorantraniliprole 18.5% SC @ 3 ml per 10 liters of water. Blast: - Spray Hexaconazole 5% EC @ 20 ml. or Isoprothiolane 40% E.C @ 15 ml or Tebuconazole 25.9% EC @ 15 ml per 10 liters of water. Bacterial leaf blight: - Spray Copper hydroxide 53.8% DF @ 30 gm + Streptocycline 1 to 1.5 gm per 10 liters of water. Water Management: After planting of paddy, water level should be maintained at 2.5 cm. (One inch). After this the level is about 5 cm till the seed matures. (Two inches). Drain water from time to time if possible.

Horticulture Specific Advisory:

Horticulture(Varieties)	Horticulture Specific Advisory
MANGO	Considering the prevailing cloudy weather, if the infestation of jassids on mango is crossing economic threshold level, Buprofezin 25 % EC 10 ml or deltamethrin 2.8 % EC 5 ml or imidacloprid 17.8 SL % 4 ml or Lambda cyhalothrin 5 % EC 5 ml or Dimethoate 30 % EC 16.5 ml per 10 liters of water. For management of powdery mildew of mango, spraying should be done of Hexaconazole 5 % EC 10 ml or Penconazole 10 % EC 5 ml or Sulfur 80 % WDG 30 gm or Dinocap 48 % EC 5 ml per 10 liters of water. For management of fruit drop in mango spraying should be taken of 20 parts per million (PPM) Naphthalic Acetic Acid (NAA) mix with in water and apply on the inflorescence.
CABBAGE	Considering the prevailing cloudy weather, for management of aphids on Cabbage & Cauliflower, spray Dimethoate 30 EC 13 ml or Cyantraniliprole 10.26 OD 12 ml per 10 liters of water.
CAULIFLOWER	Considering the prevailing cloudy weather, for management of Diamond Back Moth on Cabbage & Cauliflower, Spraying should be done of Chlorpyrifos 20 EC 40 ml or Spinosad 2.5 SC 12 ml or Fenvalerate 20 EC 5 ml per 10 liters of water.
MANDARIN ORANGE	Considering the rise in temperature continue drip irrigation at the rate of 14-63, 87-143 and 163-204 litres per day for 1-4, 5-7, 8 years and above trees old respectively. Follow irrigation with double ring method or square method irrigate orchard at 7 to 10 days interval. Considering the increasing temperature, 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.
MANDARIN ORANGE	Fertilizer should be applied at the rate of 108 g urea or 250g ammonium sulphate and 157g l.c. 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.
MANDARIN ORANGE	Water stress conditions often aggravate mite problem during these periods. Trees should be well irrigated, particularly during the stress in late summer. Foliar application of Dicofol* 18.5EC @ 27ml or Propargite* 57 @ 20 ml or Ethion* 50EC @20ml in 10 litre water twice at 15 days' interval is necessary immediately during summer at water stress period. To check the blackfly infestation during April, foliar application of Imidacloprid# 17.8 SL @ 5 ml or Dimethoate# 30 EC @ 20 ml per 10litre of water at 15 days' interval on the lower sides of leaves covering the entire tree canopy coinciding with adult emergence and 50% egg hatching necessary effectively to check the pest.

Horticulture(Varieties)	Horticulture Specific Advisory
MANDARIN ORANGE	In case of bark eating caterpillar infestation, the affected branches of the frass and feces, injection of 5 to 10ml of Chlorpyrifos# 20 EC solution in to the tunnel and then cover the hole with soaked cotton wad is necessary or cotton wool soaked in kerosene or petrol injected in to the tunnel and then cover the hole with wet clay mud is necessary.
MANDARIN ORANGE	Foliar application of gibberellic acid 1.5 gm + urea 1 kg may be given during fruit set after mixing it in 100 litres water. (Dissolve gibberellic acid in 10 ml alcohol before mixing in water). Spray 2, 4-D/ 1.5gm and potassium nitrate 1kg in 100 liters water if there is sudden rise in temperature between 41 to 42 degree Celsius. Installed Yellow Sticky trap @ 30 /acre (Using 30 x 40 cm size foam sheet with Castor oil as sticker at weekly interval to catches large number of adult sucking pest at 1.5 to 2.0-meter height above soil surface.
MANDARIN ORANGE	For effective management of gummosis of Nagpur mandarin gummosis-affected portion from where gum is oozing needs to be scraped out with sharp knife, taking care not to damage the wood. Cleaned portion pasting with Metalaxyl MZ* (50 g/l) or Fosetyl-A1* (50 g/l) at initiation of disease and second after 30 days from initiation of the disease.
ACID LIME	In acid lime 1 to 4 year tree should be given 11 to 27 litres water per day per tree, 5 to 7 year tree be given 34 to 53 litres water per day per tree, 8 to 10 years tree be given 65 to 100 litres water per day per tree.
CHILLI	Considering the prevailing cloudy weather, for avoiding flower drop in chilli, apply Planofix 5 ml/9 litre of water, 50 to 70 days after planting. Due to present weather condition for control of sap sucking pest on Chilli crops, spray 5 % Neem ark or imidacloprid 17.8 SL 5 ml per 10 lit. of water. In chilli, if thrips, fruit borer and tobacco leaf eating caterpillar crosses ETL spraying should be done of Cyantraniliprole 10.26 OD at the rate of 12.0 ml per 10 litres of water during clear weather condition.
TOMATO	Considering the prevailing cloudy weather, in tomato, if leaf minor, aphids, thrips, white fly and fruit borer crosses ETL spraying should be done of Cyantraniliprole 10.26 OD at the rate of 18.0 ml per 10 litres of water during clear weather condition.

Live Stock Specific Advisory:

Live Stock(Varieties)	Live Stock Specific Advisory
BUFFALO	Keep animals in shade and give them plenty of clean and cold water to drink. Do not make them work between 11 am to 4 pm. Cover the shed roof with straw, paint it white or plaster with dung-mud to reduce temperature. Use fans, water spray and foggers in the shed. During extreme heat, spray water and take cattle to a water body to cool off. Give them green grass, protein-fat bypass supplement, mineral mixture and salt. Make them graze during cooler hours.
COW	Dairy cows should be given 8 kg dry fodder and 6 kg green fodder and 1 kg feed. Maize, sorghum, millet, wheat bran should be used in mixing in preparation diet. Add 20 gms per kg of mineral mixture in the diet.

Poultry Specific Advisory:

Poultry(Varieties)	Poultry Specific Advisory
CHICKEN	To get the protection against heat, provide curtains and proper ventilation in poultry house.

Others (Soil / Land Preparation) Specific Advisory:

Others (Soil / Land Preparation) (Varieties)	Others (Soil / Land Preparation) Specific Advisory
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Others (Soil / Land Preparation) (Varieties)	Others (Soil / Land Preparation) Specific Advisory
GENERAL ADVICE	It should be noted that the validity of the dates mentioned in the Weather Based Advisory Bulletins will be valid from 08:30 AM of the previous day to 08:30 AM of the mentioned date. *Based on a research trial that was not included in the CIB RC label claim. # Under label claim.

