



Agromet Advisory Bulletin

Date : 29-11-2022

Weather Forecast of **KATOL** Block in **NAGPUR**(Maharashtra) Issued On :2022-11-29(Valid Till 08:30 IST of the next 5 days)

Parameter	2022-11-30	2022-12-01	2022-12-02	2022-12-03	2022-12-04
Rainfall	0.0	0.0	0.0	0.0	0.0
Tmax(°C)	29.8	29.6	29.4	29.2	28.9
Tmin(°C)	11.8	11.6	11.5	11.3	11.1
RH-I(%)	75	74	73	71	69
RH-II(%)	59	57	55	53	51
Wind Speed(kmph)	3.0	2.0	2.0	2.0	2.0
Wind Direction(Degree)	41	30	38	45	46
Cloud Cover(Octa)	3	5	2	1	4

Weather Summary/Alert:

• In Katol block, as per the block level value added forecast given by, IMD, RMC, Nagpur, sky will be clear to partly cloudy during next five days i.e. 29th November to 2nd , December , 2022. • Weather is very likely to dry during next five days. • As per the Extended Range Forecast System the maximum and minimum temperature will be normal in Vidarbha Subdivision during 27th, November to 03rd, December, 2022. • Validity of forecast- till 08:30 AM of mentioned dates.

General Advisory:

• Matured paddy crop should be harvest and keep the harvested produced at safe places. • For management of Grey mildew or brown leaf spot and fungal leaf spot disease in cotton, spraying should be done of Kresoxim-methyl 44.3 SC @ 10 ml or Azoxystrobin 18.2 % w/w + Difenoconazole 11.4 % w/w SC @ 10 ml in 10 litres of water. Also, the rotten bolls and diseased crop residues should be collected and destroyed outside the field. • It is advice that in areas where the cotton crop is ready for picking give priority for clean picking of cotton. Keep the picked cotton, variety wise. Use cotton bags instead of gunny or plastic bags for picking and storing of cotton to avoid contamination of the lint.

SMS Advisory:

• Carry out transplanting of Cabbage & Cauliflower seedling by the end of November month to take advantage of the winter season.

Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
BENGAL GRAM/ CHICK PEA	• At Wafsa condition hoeing and weeding must be carried out twice; first at 20 and second at 30 days old plants to ensure weed free environment during the critical period of crop weed competition for better water and nutrient use efficiency.
WHEAT	• Wheat crop should be irrigated first at 18 to 20 days after sowing at crown root initiation stage. Water stress at CRI stage reduces production by up to 33 %. • For late sowing of irrigated wheat 150 kg seed per hectare should be used for sowing. For coarse seed varieties like HD 2189 or Purna of wheat crop, 125 kg seed per hectare should be used. Apply 80 kg N, 40 kg P and 40 kg K per hectare for late sowing wheat. For both irrigated and late sowing, apply half dose of nitrogen as well as full phosphorus and potash at the time of sowing and the remaining half dose at the time of first irrigation (18 to 20 days after sowing).

Crop(Varieties)	Crop Specific Advisory
WHEAT	- Before sowing, wheat seeds should be treated Azotobacter (Nitrogen fixing bacteria) and Phosphorus solubilizing bacteria (PSB) fertilizer at the rate of 250 g / 10 to 12 kg of seed. - Seed treatment should be given to wheat seed prior to sowing avoid fungal diseases and pest incidence, for this purpose recommended fungicide and insecticides are Carboxin 75 % WP @ 2-2.5 gm/kg of seed to manage Bunt, Flag smut and Loose smut disease or Difenoconazole 3 % WS @ 2 gm/kg to manage Loose smut disease or Tebuconazole 5.4% w/w FS @ 0.3 ml/kg of seed to manage Loose smut and Flag smut disease or Carboxin 37.5% + Thiram 37.5% WS @ 3 gm/kg of seed to manage Loose smut disease or Imidacloprid 18.5% + Hexaconazole 1.5% FS @ 2 ml/kg of seed to manage the Rust and Smut diseases as well as Termite and Aphid incidence.
PIGEON PEA (RED GRAM/ARHAR)	- As a precautionary measure in the context of cloudy weather for management of pest, spray 5 % neem extracts Azadiractin 300 ppm 50 ml in 10 liters of water as soon as buds and flowers appear on the Arhar crop. Install pheromone traps at a distance of 50 m @ 5 / ha for monitoring of Helicoverpa. - If the incidence of pod borer is noticed on pigeon pea crop and crossing economic threshold level, spraying should be done of any of recommended insecticide viz., Chlorantraniliprole 18.50 % SC @ 150 ml in 500 to 750 litres of water per hectare or Emamectin benzoate 05 % SG @ 220 gram in 500 to 750 litres of water per hectare or Ethion 50 % EC @ 1000-1500 ml in 500-1000 litres of water per hectare or Flubendiamide 20 % WG @ 250 gram in 500 litres of water per hectare or Flubendiamide 39.35 % m/m SC @ 100 ml in 500 litres of water per hectare or Lambda-cyhalothrin 05 % EC @ 400-500 ml/ha in 400-600 litres of water per hectare or Quinalphos 25 % EC @ 1400 ml/ha in 500-1000 litres of water per hectare or Chlorantraniliprole 09.30 % + Lambda-cyhalothrin 04.60 % ZC 200 ml/ha in 500 litres of water per hectare.
SUNFLOWER	In sunflower crop, thinning should be done 10 to 15 days after germination and only vigorous seedlings should be kept in one place.
MUSTARD	It is advice to carry out 2 hand weeding after 20 and 40 days after sowing respectively and 2 hoeing as per need at Wafsa condition.
RICE	- Farmers are advised to harvest of mature rice crop. After harvesting, crop should be dried in the field for 2-3 days and thereafter threshing should be done. - Harvesting of paddy crop should be done close to the ground so that the pupation of stem borer is eliminated and the incidence of this pest in summer paddy crop is reduced. - False smut infected panicles should be removed separately, buried in a deep pit or burn it so that the disease does not spread elsewhere.
COTTON	- For management of Grey mildew or brown leaf spot and fungal leaf spot disease in cotton, spraying should be done of Kresoxim-methyl 44.3 SC @ 10 ml or Azoxystrobin 18.2 % w/w + Difenoconazole 11.4 % w/w SC @ 10 ml in 10 litres of water. Also, the rotten bolls and diseased crop residues should be collected and destroyed outside the field. - To manage fungal foliar spots and fungal boll rot diseases, apply Carbendazim 50 WP @10 g or Kresoxim-methyl 44.3 SC@10 ml or Propineb 70 WP@25 g or Propiconazole 25 EC@ 10 ml or Metiram 55% +Pyraclostrobin 5% WG @20 g or Azoxystrobin 18.2% w/w + Difenoconazole 11.4% w/w SC @10 ml or Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l SC @ 6 g mixed in 10 litres of water.
BARSEEM	Berseem fodder crop is beneficial in cold and warm climates. Medium to heavy and well drained soil should be selected for cultivation of Berseem crop. The land should be ploughed and then the land should be levelled by giving two criss-cross harrowing and cleaned by removing the stubble and farm waste. Meskavi, Vardan, JB 01, BL 01, JHB- 146 improved varieties should be selected for sowing. Sowing should be done till the end of November to get the required cold weather for the growth of the crop. For sowing, flat beds of size 05 x 03 m should be prepared. At the rate of 30 kg seed per hectare should be sown at a distance of 30 cm between two rows or by broadcasting the seeds on a flat bed. Recommended seed treatment should be done before sowing. 10 to 15 tons of well decomposed manure should be mixed in the soil as per availability before last harrowing. Apply 20 kg N, 80 kg P and 40 kg P at the time of sowing.

Horticulture Specific Advisory:

Horticulture(Varieties)	Horticulture Specific Advisory
CABBAGE	Carry out transplanting of Cabbage seedling by the end of November month to take advantage of the winter season.

Horticulture(Varieties)	Horticulture Specific Advisory
CAULIFLOWER	• Carry out transplanting of Cauliflower seedling by the end of November month to take advantage of the winter season.
LINSEED	• At Wafsa condition, carry out first hoeing after 25 days after sowing. Hand weeding should be done keep in the of weed intensity.
BRINJAL	• If the incidence of fruit and shoot borer is noticed on brinjal crop, spraying should be done of any of following insecticides on crossing ETL, Carbosulfan 25 % EC 1250 ml per hectare or Deltamethrin 02.80 % EC 400 to 500 ml per hectare or Emamectin benzoate 05 % SG 200 gram per hectare or Lambda-cyhalothrin 04.90 % CS 300 ml per hectare or Spinosad 45 % SC 162 to 187 ml per hectare or Thiacloprid 21.70 % SC 750 ml per hectare or Chlorantraniliprole 09.30 % + Lambda-cyhalothrin 04.60 % ZC 200 ml per hectare mix with in 500 litres of water per hectare.
CHILLI	• Due to alternative low and high temperature coupled with high humidity, if the powdery mildew disease is noticed on chilli crop, spraying should be done of any of following fungicide, Hexaconazole 75 % WG @ 66.7 gram or Tebuconazole 25% WG @ 500-750 gram or Azoxystrobin 8.3 % + Mancozeb 66.7 % WG @ 1500 gram or Boscalid 25.2% + Pyraclostrobin 12.8 % WG @ 600 gram or Carbendazim 12 % + Mancozeb 63 % WP @ 750 gram or Kresoxim-Methyl 15 % + Chlorothalonil 56 % WG @ 1000 gram or Tebuconazole 10 % WP + Sulphur 65 % WG @ 1250 gram or Tebuconazole 50 % + Trifloxystrobin 25% WG @ 250 gram mixed with in 500 litre of water per acre for management of disease.
MANDARIN ORANGE	• During this month on Mrig Bahar (June flowering) Nagpur mandarin & Sweet orange (Mosambi) trees should be given water by drip irrigation or double ring method, For one year old tree give 8 litre/day/tree; for 4 yrs tree give 36 litres/day/tree; for 8 years old tree give 85 litres/day/tree and 10 to 25 years tree give 105 litre/day/tree. In acid lime for one year plant give 4 @ litre/day/tree and for 10 years and above tree give 88 litres/day/tree. Harvest the fruits of Ambia bahar. If delay is anticipated in harvesting of Ambia fruits two sprays of gibberellic acid 15 ppm + urea 1% may be carried at 15 days interval. Uproot and destroy all weeds. Loosen the soil in the tree basin. Apply 108 gms urea and 45 gms muriate of potash per tree to one year old tree. For two year old trees apply double the dose, three times for 3 year and 4 times for 4 year old trees and above. Every care should taken to keep the soil moist during fertilizer application in order to save the loss of fertilizer inputs. For bearing orchard application of 500 gm urea, 600 gm single super phosphate, 150 gm muriate of potash, 100 gm each of ferrous sulphate, manganese sulphate, zinc sulphate and 50 gm of borax per tree should be given within the perimeter of trees.
MANDARIN ORANGE	• For taking Ambia bahar give stress to the trees by discontinuing irrigation. After harvesting of fruits, prune dead wood and water shoots followed by spray of fungicide, carbendazim @ 1 g/litre water. In case of aphids attack spray dimethoate 1.5 ml or imidacloprid 0.5 ml per litre of water. Second application should be done with any one of the insecticides not applied earlier at 15 days interval. In case of incidence of citrus mite, spray dicofol @ 2 ml or propargite @ 1ml or ethion @ 2ml or Wettable sulphur @ 3 g per litre of water. After 15 days second application should be given with either of the two above miticides. Apply Bordeaux paste on tree trunk if not applied earlier. To make good Bordeaux paste soaks 1kg copper sulphate in 5 liter water in plastic bucket 1kg lime in 5 litres of water separately overnight. In the morning mix copper sulphate and lime another bucket and stir well. Apply within 12hrs. of mixing; Do not use next day. For Phytophthora/gummosis disease control scrap out the oozing portion by a sharp knife and apply mefenoxam MZ or fosetyl Al paste.

Live Stock Specific Advisory:

Live Stock(Varieties)	Live Stock Specific Advisory
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BUFFALO	To protect livestock from cold weather, keep the animals indoor during night hours. Provide suitable bedding like paddy straw, wheat straw, saw dust etc. of 4-6-inch thickness to protect the animals from cold. The floor of the animal shed should be kept clean and dry. Provide clean and potable drinking water to animals round the clock. Clean the water trough (once in a week) regularly in livestock. Provide mineral mixture @ 30-40 g/day to cattle for improving the milk production and reproduction efficiency.

Fisheries Specific Advisory:

Fisheries(Varieties)	Fisheries Specific Advisory
SWEET WATER FISH	As feed intake decreases with decrease in temperature, it is essential to reduce the feeding rate by 50-75% depending on the temperature. During winter the surface water of the pond is colder than bottom layer where, fish prefer to spend more time. Hence fish farmer may keep the water depth up to 6 feet. The farmers are advised to aerate their ponds either by adding fresh water or by using aerators, especially during early hours of the day.

Others (Soil / Land Preparation) Specific Advisory:

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GENERAL ADVICE	Nursery brinjal, tomato, cauliflower and cauliflower seedlings should be planted in the field at the age of 4 to 6 weeks. Fenugreek, spinach, cilantro, radish and carrot should be planted in stages.
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 on the previous day to 08:30 AM on the said date.