

AGROMET ADVISORY BULLETIN GRAMIN KRISHI MAUSAM SEWA, AMFU, IGATPURI ZONAL AGRICULTURE RESEARCH STATION, IGATPURI.



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76) Weather based Agromet Advisory committee meeting dated 20.12.2024

	District	: Nashik	K									
	Last Week Weather Summary				Weather	Weather Forecast						
	(14.12.2024 to 20.12.2024)				Parameters	(21.12.2024 to 25.12.2024)						
14	15	16	17	18	19	20	Date	21	22	23	24	25
0.0	0.0	0.0	0.0	0.0	0.0	0.0	Rainfall (mm)	0	0	0	0	0
27.0	28.2	29.4	30.2	30.2	30.4	29.8	Max. Temp. (⁰ C)	29	29	30	29	30
13.5	10.4	12.5	9.5	10.0	8.7	12.0	Min. Temp. (⁰ C)	10	10	11	13	15
Clear	P Cloud	P Cloud	Clear	Clear	Clear	P Cloud	Cloud Cover	P Cloud				
56	58	56	63	55	78	81	Max. RH (%)	85	84	85	86	85
20	19	18	18	24	27	28	Min. RH (%)	36	35	36	37	39
10.5	7.0	6.0	3.8	3.2	2.0	2.2	Wind Speed (km/hr)	2	4	4	2	4

Agromet Advisory Based on Weather Forecast Prediction

Crop	Stage	Advisory
Weather	Summary	Considering the weather forecast there is possibility of dry & cold weather for next five days. The sky will be partial cloudy for next five days. Also Maximum Temperature staying in between 29-30 Degree Celsius, Minimum Temperature 10-15 Degree Celsius & the wind speed will remain between 2 - 4 kmph for the next five days.
General	Advisory	<u>Cruciferous crops</u> <u>Aphids</u> The current cool and occasionally cloudy weather is favorable for aphid infestation. Green or black aphids suck the sap from young leaves. Due to this, the leaves become wrinkled, turn yellow and dry. Aphids excrete a sticky substance from their bodies. As this substance accumulates on the leaves, the leaves look sticky and oily. Then, black fungus grows on this substance. As a result, photosynthesis slows down. The growth of the plants is stunted and the production decreases. <u>Management</u> If the aphid infestation reaches at economic threshold level, undertake the spraying of 5% neem extract <u>or</u> neem-based insecticide Azadirachtin (300 ppm) 5 ml per liter of water. This spray reduces the number of aphids and promotes friendly insects. Among biological insecticides, spray Verticillium lecanii <u>or</u> Metarhizium anisoplii @ 2 to 2.5 gm per liter of water. If necessary and biological control is not possible and the infestation exceeds the economic threshold level, spray with chemical insecticide Malathion (50 EC) @ 2 ml <u>or</u> Imidacloprid (17.8
S	MS	SL) @ 0.4 ml per liter of water. Place the swab of turpentine on nostrils if nasal discharge is there but if discharge is greenish yellow in colour then immediately consult to the veterinarian. Drinking water should not too cold.
Rabi	Boot stage	If the temperature goes below 15 degrees Celsius in the month of December, the amount of aphid
Sorghum	Doorstage	pest increases, this leads to the spread of sticky disease. For that, undertake the spraying of Dimethoate (30 % EC) @500 ml per 500 liters of water. Give third irrigation according to availability of water and protect from birds.
Rabi Maize	Intercultural operation	Depending on the prevalence of weeds, one to two weeding should be done in the early stage of maize growth and one to two hoeing as needed.
Wheat	Vegetative to Tillering stage	Cloudy weather is conducive to shoot fly. In case of shoot fly infestation, sprays 5% neem extract or 25% quinalphos in 15 ml per 10 liters of water. Apply second spray as required. If more water is given, the field retains constant moisture and its helps to increase the incidence of the disease. Irrigate as per crop requirement. Chemical fertilizers should be applied as recommended. Excessive use of urea fertilizer may increase the incidence of rust. As soon as rust appears on the crop, spray Mancozeb fungicide mixed with 25 g in 10 liters of water. Apply second spray 15 days after spray as required. As soon as aphids and jassids appear, Metarhizium anisopli should be mixed in 50 g per 10 liters of water and sprayed in the evening. Or spray Thiamethoxam (25WG) 1 g or Acetamiprid 20 (SP) 5 g per 10 liters of water. Apply second spray 10 to 15 days after spray as required.



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Immachad	Vacatation	The first Heating is done 20 days often soming and the second Heating is done 20 days often
Irrigated Chick pea	Vegetative stage	The first Hoeing is done 20 days after sowing and the second Hoeing is done 30 days after sowing. After hoeing, weeding to remove weeds from two plants.
Rainfed	Branching to	Install 5pheromone traps per ha at a distance of 50 m for monitoring of gram pod borer and
Chick pea	flowering stage	change lures at 15 days interval.
		Spray the crop with 5% NSKE for the management of pod borer as soon as incidence noticed.
		In the cloudy weather, the incidence of pod borer larvae has observed in rainfed chickpea. The spraying of HaNPV @ 10 ml per 10 liter should be carried out.
Grapes		Pink berries
Grapes		If the daytime temperature rises to 35 degrees Celsius and the night temperature drops to 7 to 8
		degrees Celsius, the temperature difference causes the green pigments in green grape varieties to
		convert into pink pigments. Such a temperature difference can turn the entire bunch in the garden
		pink in one night. The more part of the grapes comes close to the minimum temperature, the more
		the berries appear pink. The color of the berries in the same grape bunch varies. For the purpose
		of eating grapes, the general consumer prefers the same color (green, red or black). No solution seems to be available or working for this till date, nor has any chemical been
		observed to turn pink berries to green berries. However, to reduce the gap between the minimum
		and maximum temperatures, covering each grape bunch with paper eight to ten days before the
		water falls or before reaching at least 7 to 8 degrees Celsius can be of some benefit. Before
		covering the bunch with paper, fungicides and insecticides should be sprayed as recommended for
Domograms		the control of powdery mildew and mealybug. Mrig Bahar (Garden Stage - Dormant): Nutrient Management
Pomegranate		After harvesting the previous bahar fruits, apply 20-25 kg of FYM or 13-15 kg of FYM + 2 kg of
		vermicompost + 2 kg of neem cake or 7.5 kg of poultry manure + 2 kg of neem cake per tree.
		Apply chemical fertilizer at the rate of 205 gm nitrogen (446 gm urea), 50 gm phosphorus (315
		gm single super phosphate), 152 gm potassium (254 gm muriate of potash) per tree and irrigate
		lightly.
		Apply a mixture of organic formulations three to four weeks after applying chemical fertilizers. Mix 1 kg of Azospirillum spp or Aspergillus niger or Trichoderma viridi and 3 kg of Penicillium
		pinophyllum per acre in 2 to 5 quintals of well compost FYM in a ratio of 1:25 and prepare beds
		of this mixture in different places in the shade, sprinkle lightly with water and keep it at 60 to 70
		percent moisture for 15 days. Keep turning it every two days. Before using this mixture in the
		field, mix it with a biological formulation of Arbuscular Mycorrhiza Fungus at the rate of 1 kg per
Manga		acre. This mixture should be given to 300 trees or one acre of area in the garden. Mango inflorescence Management
Mango		It is necessary to identify male and bisexual flowers in mango blossoms. Due to extreme cold, the
		number of male flowers increases and the number of bisexual flowers decreases. Also, pollinating
		insects are found in less quantity due to cold. Due to this, mango blossoms are seen drying up
		without pollination.
		To increase pollination in mango blossoms, move your hand over the blossom near your hand, for blossoms on high branches, tie a broom to a bamboo stick and rotate it. To attract insects in the
		mango garden, soak dried fish in water and hang it. For this, choose low-quality bangla fish. To
		protect the fish from birds, remove the bottom of an empty bottle, put a wire through the bottle
		and hang the fish in some part. The smell of this hanging fish should be spread, so the bottle
		should be made airy. Due to this, pollinating insects, especially flies, are attracted and pollination
Onion		is observed in the mango. After transplanting of Rabi season onion crop, regular weeding should be done at an interval of 15
		to 20 days. Top dressing should be applied 30 and 45 days after planting.
Tomato		Staking and soil reinforcement for trees
		After 30 to 35 days after planting, when the growth of the trees is strong, the branches and shoots
		spread out vigorously. For this, they should be supported with bamboo, twine and wire. Wooden
		bamboos of 6 to 9 feet in height should be planted in the ground on the side of the furrows. At a
		height of 1 meter from the ground, pull the wire on both the poles and tie it tightly and support it with bamboo in the middle. After the height of the tree is 30 cm., tie a loose twine to the trunk of
		the tree and tie it to the wire. Then, as the tree grows new branches, each branch should be tied to
		the wire with twine.
		Within 30 to 45 days after planting, the trees should be given soil reinforcement. For this, half of
		the furrows in front of the tree should be broken and soil should be applied to the side of the tree,
		this provides support to the trunk of the tree and helps in rooting. It helps in maintaining the right amount of air in the soil. While adding soil, take care that the tree is not buried too much in the
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Animal Husbandry Cow, Goat etc)Cowshed Management in Winter Proper shelter to protect against wind and cold, proper arrangement of pregnant cows and buffaloes, comfortable and warm seating facilities, and as dry an environment as possible should be maintained. The cowshed should be well ventilated. Sufficient natural light and heat help prevent the spread of diseases. The surface of the cowshed should not be slippery and should be easy to clean. The cowshed should be closed with a shade net or a gunny bag at night. This will help prevent cold winds. The bulbs in the cowshed should be turned on at night. This will help control the temperature. Arrangements should be made to help sick animals eat enough fodder. The sitting area should be dry, which protects the cows from moisture and cold. The drier the sitting area, the warmer the ground remains. This protects the animals from cold. It is important to keep the air circulating in the cowshed during the day. Ensure that the humidity and ammonia in the cowshed are removed.GoatManagement of goats in December Breeding bucks should be kept separate from goats.
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Breeding bucks should be kept separate from goats.
A separate arrangement should be made in the cowshed for the weaning goats.
Monitor the diet and health of pregnant animals.
Sheep Management of sheep in December
Protect the herd from cold air.
Newborn lambs and sheep should be protected from cold.
Body weight of lambs should be recorded.
400 grams of fodder should be fed to pregnant sheep and lambs.
Poultry Health Management in the shed during winter
Management To protect the chickens from extreme cold, clean and dry curtains should be installed along the
length of the shed. The curtains should be easily opened. The curtains should be closed at night
and in the morning when the air is cold. The curtains should be opened in the afternoon when
there is a little heat.
It is very important to have proper ventilation and air circulation in the shed. For this, the curtains
should be opened from top to bottom whenever possible. By doing so, the polluted air containing
carbon dioxide is quickly thrown out. If such polluted air is not thrown out and the chickens do
not have access to oxygenated (clean) air, they suffer from hypoxia (lack of oxygen). Metabolic
diseases like ascites occur, and mortality increases.
The amount of ascites starts to increase from about the third week after the chickens arrive in the
shed. If the planning of opening the curtains attached to the shed is not done properly, the
ammonia produced in the shed is not thrown out, due to which the amount of ammonia in the shed
increases and the chickens suffer from respiratory diseases and eye problems. This leads to
reduced food intake, weight loss, and increased medication costs. Therefore, planning the curtains
installed in the shed during winter is very important.
ource:

1) Weather Forecast

: Research Section, Mumbai

2) Last week weather summary : GKMS Observatory, ZARS, Igatpuri, Dist. Nashik.

Place : ZARS, Igatpuri Date : 20.12.2024 Sd/-Nodal Officer, GKMS, AMFU Igatpuri & Associate Director of Research ZARS, Igatpuri, Dist. Nashik