



AGROMET ADVISORY BULLETIN

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05) Weather based Agromet Advisory committee meeting dated 16.04.2024

District: Nashik

Last Week Weather Summary (10.04.2024 to 16.04.2024)							Weather Parameters	Weather Forecast (17.04.2024 to 21.04.2024)				
10	11	12	13	14	15	16	Date	17	18	19	20	21
0.0	0.0	0.0	0.0	0.0	0.0	0.0	Rainfall (mm)	6	0	0	2	0
36.5	36.5	37.0	36.0	36.0	37.0	38.3	Max. Temp. (°C)	41	41	40	40	39
16.7	19.5	19.0	15.5	16.0	19.0	22.5	Min. Temp. (°C)	27	27	24	24	23
Clear	Cloudy	Cloudy	P Cloud	P Cloud	Clear	P Cloud	Cloud Cover	P Cloud	P Cloud	P Cloud	P Cloud	Cloudy
54	63	69	64	67	57	57	Max. RH (%)	40	50	52	52	61
18	31	26	17	17	29	30	Min. RH (%)	23	21	24	23	24
2.9	3.3	2.9	3.4	3.7	4.3	5.9	Wind Speed (km/hr)	12	14	16	15	16

Agromet Advisory Based on Weather Forecast Prediction

Crop	Stage	Advisory
Weather Summary		<p>Considering to the forecast there is possibility of light rain on 13th & 20th April 2024 & also hot weather for the rest of the days. The sky will be partial cloudy to cloudy for the next five days. Also Maximum Temperature staying in between 39-41 Degree Celsius, Minimum Temperature 23-27 Degree Celsius & the wind speed will remain between 12-16 kmph for the next five days.</p> <p><u>Considering the forecast & warning at isolated places of Nashik district there is a possibility of thunderstorm accompanied with lightning & gusty wind with the speed 30-40 per hours also warm night on 16th April 2024 (based on the District Level Forecast and warning issued by RMC Mumbai on issued on 16.04.2024).</u></p>
Weather Alerts/ warning:		
General Advisory		<p>Use Meghdoot mobile app for weather based crop advisory and Damini mobile app for rain or hail or thunderstorm with lightning prediction.</p> <p>Considering the light rain forecast farmers should advice to keep the harvested/ threshed crops in a safe place or covered with plastic/tarpaulin on 17th & 20^h April 2024.</p> <p>Protect the threshed crops, livestock, poultry birds & self from thunderstorm accompanied with lightning & moderate rain or hailstorm (Meghdut and Damini mobile app should be used).</p> <p>For the control of Aphids, Thrips and jassids on summer vegetable crops by spraying of Imidacloprid 17.8% SL@ 5 ml or Fipronil 5% SC@ 35 ml in 10 liters of water.</p> <p>Apply second dose of Nitrogen (N) by undertaking the one Weeding in chilli & brinjal crops.</p> <p>Harvesting of summer Okra crop should be done alternative day.</p> <p>Cluster bean crop should be harvested.</p> <p>Harvesting of vine vegetables should be done on time.</p>
SMS Advisory		Considering the light rain forecast on 17th & 20th April 2024, it is advice to keep the harvested/ threshed crops in a safe place or covered with plastic/tarpaulin.
Summer Pearl Millet	Flowering to milk stage	<p>Irrigation should be given to the pearl millet crop which is in flowering to 50% stigma emergence stage.</p> <p>Control the blister bittles insect on pearl millet crop by undertake the spraying of Imidacloprid 17.8 SL@ 3 ml per + Sulfer 80 wp @ 25 gm per 10 lit. of water. (Undertake the agricultural practices only when during clear weather)</p>
Summer Groundnut	flowering stage	<p>Use drum roller for better penetration in Groundnut crop.</p> <p>Care should be taken that the water stress will not under the period of pegging & grain filling stage of summer groundnut.</p> <p>Compensate micronutrient deficiency in standing crops by undertaking the spraying of 0.5 percent iron and 0.2 percent zinc sulfate mixture should be given at 30, 50 and 70 days after sowing (Undertake the agricultural practices only when the during clear weather)</p>
Wheat	Harvesting	<p>Protect the threshed wheat crops from light rain.</p> <p>Grains should be dried in hot sun and stored. The insecticide should be used during storage.</p> <p>Wheat should be threshed with the help of a machine. Care should be taken not to split wheat grains while threshing. Recently harvesting, threshing and bagging of the crop is done simultaneously with the help of combine harvesters. It works fast. (Undertake the agricultural practices only when during clear weather)</p>



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Kharif Finger millet	Preparatory Tillage	Ploughing & harrowing should be undertaken in field for sowing of kharif Finger millet crop. (Undertake the agricultural practices only when during clear weather)
Grapes	Pruning	Considering the light rain forecast it is advised to keeping the Grape garden clean by collecting and destroying the dry leaves, branches, and spoiled/rotten fruits. The April pruning of harvested Grape garden should be Started & after pruning the spraying of B.M. 1% should be undertaken.
Pomegranate		Considering light rain forecast it is advised to keeping the pomegranate garden clean by collecting and destroying the dry leaves, branches, and spoiled/rotten fruits. Control fruit borer in pomegranate by undertaking the spraying of 5 percent Neem extract. Bordeaux paste should be applied to the pruned branches and trunks. Then spray with 1% Bordeaux mixture. Fertilizers should be applying if no fertilizer management is done during dormant stage of garden. Recommended Integrated pest-disease management should be done in dormant stage garden. Considering the hot weather forecast water management should be targeted. Seasonal preventive measures should be taken to prevent outbreak of oily spot disease.
Mango	Harvesting	Considering the light rain forecast it is advised to keeping the Mango garden clean by collecting and destroying the dry leaves, branches, and spoiled/rotten fruits. Ready to harvest (80 to 85% ripe) mango fruits should be harvested with stalks by 10 AM or after 4 PM. Heat can increase the temperature of the fruit and increase the amount of premature small mango fruits. Mango fruits should be kept in the shade after harvesting. To protect fruits from post-harvest fungal diseases, immediately after harvesting fruits should be immersed in a solution of potassium metabisulphite 0.05 percent (0.5 gm per liter of water) at 50 degrees Celsius for 10 minutes. Then these fruits should be kept for ripening. Fruits should be packed in corrugated fiber boxes. Mango fruits should be transported at night. No spraying should be done on the tree at least 8 days before fruit harvesting. For growing the size of mango fruit, The area in which there is one month of migration for mango harvesting by spray the potassium nitrate 25 gm in 10 liters of water at that place.
Onion		If water accumulates in the planted area, it should be removed immediately. Take care that water does not accumulate. For that, grooves should be made in a proper way to drain the water. After harvesting the onion, while drying in the field, without heaping, the first onion should be covered with the leaves of the second onion and dried for 5 days.
Tomato		Viral disease on Tomato crop is spread by thrips, whitefly insects. Control the pests like thrips & whitely on tomato crop by undertaking the spraying profenofos or dimethoate @ 15 ml per 10 liters of water at weekly intervals. Diseased plants should be uprooted and destroyed. (Undertake the agricultural practices only when the considering rainfall forecast or during clear weather)
Animal Husbandry (Cow)		If the animals are deficient in fodder, wheat straw should be treated with urea as per the advice of experts and fed to the animals. Considering the thunderstorm & light rain forecast it is advised to keep animals away from open water, pond or river. Considering the thunderstorm & light rain forecast protect the Livestock from light rain. Considering the thunderstorm & light rain forecast protect stored fodder of livestock from light rain. Considering the hot weather forecast care should be taken to keep the air circulating in the cowshed to protect the animals from heat & the walls of the shade should be whitewashed with lime from outside. Considering the high temperature, kept animals under shade during noon hours & avoid feeding between 11 & 15 hours.
Goat		Water Management of Goats in Summer: Generally, goats require 5 to 7 liters of water per day for drinking. But in summer they require 15 to 20 liters of water. Or 4 liters of water per kg of dry fodder is required. Abundant clean fresh drinking water should be available 24 hours a day in confined goat rearing. The temperature of drinking water should be 20 to 24 degrees Celsius. If goats are given water from mud water container (math) or Ranjan to drink in summer, goats will drink that water with pleasure. Goats should be vaccinated against rinderpest (bulakandi) disease in this month (April).



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Poultry	Considering the thunderstorm & light rain forecast protect the poultry birds from light to moderate rain. Chickens should be kept in well covered wall and roof sheds to protect them from heatstroke. Similarly, the shed should be built in such a place and direction that the air will continue to play in the shed. A 24 inch long covering should be installed on the front side of the roof. It is beneficial to clean the roof before the onset of summer and paint it white, also put dry grass straws, rice bran on the roof and keep it wet.
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Source:

- 1) Weather Forecast : Research Section, Mumbai
- 2) Last week weather summary : GKMS Observatory, ZARS, Igatpuri, Dist. Nashik.

Place : ZARS, Igatpuri
Date : 16.04.2024

Sd/-
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