



AGROMET ADVISORY BULLETIN
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Weather based Agromet Advisory committee meeting dated 13.05.2021
District Jalgaon

Weather Parameters	Weather Forecast (13.05.2021 to 17.05.2021)				
	14	15	16	17	18
Date					
Rainfall (mm)	0	0	0	0	5
Max. Temp. (0C)	41	42	43	42	40
Min. Temp. (0C)	26	29	29	28	26
Cloud Cover	6	7	8	8	8
Max. RH (%)	37	35	34	46	53
Min. RH (%)	14	16	14	20	30
Wind Speed(km/hr)	15	8	14	28	28
Wind direction (deg)	303	226	133	127	151

Agromet Advisory Based on Weather Forecast Prediction

Crop	Crop Stage	Advisory
Weather Summary/ Alert		According to forecast given by India Meteorological Department the weather may remain dry during dt. 13 th to 15 th May, 2021 and there is possibility of rainfall at isolated places on dt. 16 th & 17 th May, 2021 in the district.
General Advisory		<ul style="list-style-type: none"> • There is possibility of unseasonal rainfall harvesting of matured crops, fruits and vegetables should be done. • Store the harvested & threshed produce at safe storage places. If threshing is not possible the harvested produce should be covered properly. • For protection from untimely rains the stored grains should be shifted at safe storage. • Cattle should be kept at safe places in cattle shed. • The harvested & threshed produce should be dried for 6 to 7 days in sunlight before storage but be watchful for rain. Store the produce in dry and ventilated places. Mix 5 % neem leaves in the gunny bags. • Farmers should observe the pest and disease incidence on their field and if the infestation is above economic threshold level (ETL) then proper pest and disease management should be done. • Spraying of insecticide and pesticide should be done by considering the forecasted rain and preferably when there is no rain. • Farmers should download and make use of Meghdoot mobile app for weather based crop advisory and weather forecast. • Also, farmers should download and make use of use of Damini mobile app for lightning and thunderstorm warning and forecasting. • Wherever necessary apply irrigation to summer crops, fruit orchards and vegetable crops as per their requirement preferably in evening. The interval between two irrigations should be minimized. • The fruit crop saplings/grrafts below one year old should be protected by

		<p>providing shade structures against hot weather also do mulching of dried leaves, trash, straw, grass or plastic paper at the base of the plant/orchards to minimize evapotranspiration losses.</p> <ul style="list-style-type: none"> • The preparatory tillage operations like ploughing for coming kharif season should be carried out so that the present hot weather will heat the soil.
Management before - after unseasonal rains		<p>As there is possibility of thunderstorm accompanied with gusty winds, provide mechanical support to orchards, staking in vegetables. If farmers are in the field and can't find any shelter, avoid the tallest object in the area. If only isolated trees are nearby, best protection is to crouch in the open. Keep animals away from open water, pond or river. Keep animals away from tractors and other metal farm equipment. Drain out excess rain water from the field standing crops immediately after rains. Cover the harvested produce (if in the field) with polythene sheet. Due to unseasonal rain the weather becomes cold hence to protect the orchards apply light well irrigation on the same day. The orchards, field should be kept clean after the thunderstorm by picking all the leaves, fruits, twigs, branches etc. if necessary collect all the debris and burn it on the bunds of orchards to protect from cold weather. If lodging of standing crop is observed tie-up the crop so that they can stand. Avoid contact with electrical equipment or cords. Keep away contact with anything metal - tractors, farm equipment and bicycles. As metal or other surfaces that conduct electricity. Don't allow your animals to congregate under trees. Watch your animals closely and try to keep them under your direct control.</p>
Summer Groundnut	Pegging to pod development	<p>Care should be taken to avoid water stress during peg formation to pod development. If possible sprinkler should be used for irrigation. Due to dry weather apply irrigation to Groundnut crop as per local condition, soil type and there requirement at an interval of 8 to 10 days considering soil type. At the time of pod formation, spray 00:52:34 @ 70 g and multi- micronutrient @ 50 gm per 15 liter of water to enhance pod formation.</p>
Orchard Plantation:	Preparatory Plantation stage	<p>For plantation of fruit orchards dig pits of 1x1x1 meter and remove the soil from the pit and expose it to sunlight due to which this will help in eradicating pests naturally.</p>
Cotton	Preparatory preparation	<p>As a precautionary measure for effective control of pink bollworm collect and destroy all the trash, debris etc. of previous crop by burning which will help in elimination of the dormant pest and diseases.</p>
Sugarcane	Growth Stage	<p>As the summer season has started crop should be given irrigation at proper time intervals. Drip irrigation water management system should be adopted for sugarcane crop. Irrigate alternate rows and apply sugarcane trash as mulching. For control of early shoot borer disseminate two Trichocard per acre at an interval of 10 days if required repeat it 2 to 3 times. For chemical control spray chlorantraniliprole 18.5% S.C., 3 to 4 ml per 10 lit. of water or 0.4 % G, 18.75 kg per hectare.</p>
Chilli	Vegetative growth stage	<p>For control of thrips and white fly on Chilli use yellow sticky traps for white fly and blue sticky traps for thrips. For control of white fly by insecticide, spray Dimethoate (30 EC) 15 ml or Difenthiuron (50 WP) 12 gm or Fenpropathrin (30 EC) 5 ml with 10 liters of water. For the management of thrips, spray Fipronil (5 EC) 15 ml or Spinosad (45 EC) 4 ml with 10 liters of water.</p>
Tomato	Fruit bearing stage	<p>The larva of fruit borer first feeds on leaves and then on green or ripened fruits. For control of it take 2-3 sprays of 25% EC Quinalphos 20 ml or Novaluron 10% EC 15 ml or chlorantraniliprole 18.5 SC, 3 ml per 10 lit. of</p>

		water at an interval of 8-10 days.
Citrus fruits		For control of sap sucking citrus psylla spray 10ml quinolphos 25% concentration or 5.5ml novaluron 10% conc. Per 10 ltr of water.
Mango	Fruit bearing stage	The newly planted mango plants should be protected from wind by giving support of sticks. The fruit bearing big trees should be irrigated considering their age, soil type, available water etc at proper time intervals. Mulching of dried leaves, grass etc. should be done at the base of mango tree. The fruit fly lays its eggs in the fruit below outer cover of the fruit when the fruit is about to mature. The larvae develop on the pulp of the fruit. Hence the infested fruit should be destroyed. The soil should be ploughed below the trees. For its control use methyl useinol coated 8-10 traps per acre. Harvest the matured fruits preferably before 10AM or after 4PM and store them at safe place for ripening. The transportation of produce should be done in evening or after.
Banana		As the summer temperature is increasing apply optimum irrigation to the orchards at proper interval. Mulching with organic waste such as banana leaves, wheat straw, sugarcane trash, soybean straw, grass etc should be spread in between plant rows. The suckers at the base of banana trunk should be cut and destroyed at regular intervals also the dried and infected leaves should be cut and destroyed to keep the orchard clean. To protect the banana bunch from hot weather it should be covered by banana leaves. Cultivation of crop such as cucumber, gourd, watermelon, muskmelon, chilli, brinjal etc. should be avoided in banana plantation.
Flower plants		For control of spider mites on Gerbera, carnation spray dicofol 15 ml or abamectin 4 ml per 10 lit. of water.
Animal Management		For control and prevention of diseases all animals should be given medicine and vaccination in consultation with veterinary doctor. Keep the animals in shade. Give cool, clean and pure water to animals. Do not take the conceived animals for grazing in open field when the temperatures are high. Cover the cows and buffaloes with wet gunny bags to protect from high temperatures. Give the wormicide Fenbendazol to goats for the protection of goats from Strongyle roundworms by the advice from nearest Veterinary doctor. Allow Buffalo for wallowing in water as they have fewer sweat glands compared to cattle to maintain their body's thermo equilibrium. Water soaked gunny bag or other cloth should kept on a body to avoid occurrence of heat stroke. To protect the poultry birds from high temperatures, cover the poultry shed by gunny bags and cover the roofs by dry grass and wheat straw.
Note: Farmers should take necessary precautionary measures while spraying insecticide, fungicide etc.		

Source:

- 1) Weather Forecast : Regional Meteorological Centre (RMC, Mumbai)
2) Last week weather summary : -

Place : COA, Pune
Date : 13.05.2021

Sd/-
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Head, Department of Agril. Meteorology, COA, Pune.