



Agromet Advisory Bulletin for the District, Malappuram

(Valid from 18.05.2024 to 22.05.2024)

(Issued jointly by Kerala Agricultural University Regional Agricultural Research Station Pilicode & India Meteorological Department)



Bulletin Number: Pilicode/Mpm-40/2024 Date: 17/05/2024

A. Weather Summary of preceding four days




Rainfall, mm	Max. temp., °C	Min. temp., °C	R. H., %	Wind speed, Km/h
73.9	31.0 – 33.7	23.6 – 26.2	58 – 87	04 - 08






B. Weather forecast for next five days

Parameters	18-05-2024	19-05-2024	20-05-2024	21-05-2024	22-05-2024
Average Rainfall, mm	12	13	16	20	20
Max. Temp, °C	34	34	34	34	34
Min. Temp, °C	26	26	26	26	26
Max. Relative Humidity, %	87	87	87	87	87
Min. Relative Humidity, %	58	58	58	58	58
Wind speed, km/h	2	2	4	2	4
Wind direction, degrees	270	230	270	270	290
Total cloud cover, octa	8	8	8	8	8

C. Agrometeorological Advisories

Crop	Stages	Problems	Agro-meteorological advisories
	Isolated heavy to very heavy rainfall **		
General conditions	<p>Isolated heavy to very heavy rainfall. Low night temperature and high day temperature will be experienced. Hence there will be large difference between day temperature and night temperature. The sky will be partially or fully cloudy. The air will be dry.</p> <p>There will be isolated heavy to very heavy rainfalls (From 115.6 mm to 204.4 mm within a time span of 24 hours) on May 18th.</p> <p>There will be isolated heavy rainfalls (From 15.6 mm to 64.4mm within a time span of 24 hours) from May 17, 19, 20 and 21.</p>		
General Recommendations	<p>There may be isolated heavy to very heavy summer rains in the evening time. Keep all drainage channels opened in the cultivated areas</p> <p>Transport perishable produces like rubber, copra, pulses, vegetables, seeds, etc. and animal feeds and fertilizers from open places to store houses. Collect and store sufficient feeds for the livestock. Keep the seeds fertilizers and cattle feeds on moisture free and elevated plant forms.</p> <p>Beware of heavy wind. Don't rest under the trees and in weak shelters.</p> <p>Neither keep the livestock in open places, nor allow them for grazing. They should be sheltered under strong roofs.</p>		

	<p>Postpone activities like fertilizer application, sowing etc. till climatic conditions become favourable.</p> <p>Don't go for any agricultural operations if there is extremely heavy rainfalls. Stay safe and listen for alerts from district disaster management authorities.</p>	
Paddy (Viruppu: First crop season)	Main Land preparation	<p>If the level of soil moisture content in the paddy field is optimum for ploughing, the tilling operations can be started. With the first ploughing itself, incorporate powdered FYM/compost or green manures (@ 5t/ha) to the soil.</p>
Coconut	All stages	<p>Rhinoceros beetle</p>  <p>Dwarf varieties and young palms are more vulnerable to the attack.</p>
		<p>Take out the beetles from the attacked palm crown using beetle hook. Swab the hole made by the beetles with Bordeaux paste to prevent entry of fungus through the cut surface.</p> <p>Old fishnets can be reused for controlling the pest. Cut the nets into pieces of size 1m x 0.5m. Keep the middle portion of the net, lengthwise into the axils of 3rd and 4th leaf whorls of the palm. Push the net firmly with small stones into the axils. The hanging sides of the net should be kept open. The beetles will be trapped in the nets and get destroyed. Care should be taken to move the nets to upper leaf axils accordingly while fresh leaves are emerging.</p>
Coconut	All stages	<p>Bud rot</p> 
		<p>Detection of disease at its early stage will help to adopt efficient corrective measures. Cut and remove the affected tissues from the crown and apply Bordeaux paste. After that cover the cut surface with polythene sheets to protect it from rain falls until new leaf emerges.</p> <p>Burn the removed tissues immediately.</p> <p>As a prophylactic measure apply Trichoderma cakes or spray 1% Bordeaux mixture into the axils of top leaves of the surrounding palms</p>
Black pepper	Different stages	<p>Wilting due to drought</p> 
		<p>Protect the plants from direct sunlight by smothering the basal portions of the vines with dried banana leaves, platted coconut leaves etc.. Give protective irrigations one in every two weeks.</p>

Banana	Various stages of growth	<p>Yellowing of leaf/Sigatoka leaf spot etc.</p> 	<p>As a prophylactic measure drench the plant basins with Pseudomonas solution (scale: 20 g Pseudomonas/litre of water)</p>
Cashew	Harvesting stage	<p>Root and stem borer</p> 	<p>Chisel out the grubs and swab the tree trunk with Carbosulfan 3ml/ /L of water and also drench the pesticide solution on to the soil near the root zone to minimize infestation.</p> <p>Swabbing (adult trees only) with mud slurry and coal tar kerosene mixture at 1:2 proportion is also recommended as a prophylactic measure.</p> <p>The exposed roots if any should be covered with soil.</p>
Areca nut	Bearing Stage	<p>Mahali disease</p> 	<p>Apply Bordeaux mixture (1%) to the bunch and leaves.</p>
Poultry and pet birds	Different stages	<p>Summer stress</p> 	<p>To combat heat stress, the poultry sheds should be protected from direct sunlight, roofing can be painted white to reflect heat, fans can be fitted, cool water can be sprayed, plenty of clean water can be provided with ice, glucose and 0.1 % sodium bicarbonate, feed offered during the cooler parts of the day can be supplemented with 20% extra vitamins, phosphorous and vitamin C.</p>
Animal Husbandry	All stages	<p>Summer Stress</p> 	<p>The rise in temperature will affect the thermoregulatory mechanism of dairy cattle. This will cause increase in body temperature, rapid shallow breathing, increased heart rate, profuse salivation, and reduced feed intake. This in turn results in severe production loss and reduced breeding efficiency in dairy cattle.</p>

			Provide pure drinking water to the dairy cattle (45 to 60 litres of water), Allow grazing only during the cooler parts of the day. Provide shading. Shelter them in thatched roofings of minimum 9 ft. height with ample ventilation. Providing fans, misting and fogging assembly in cattle sheds will help them to regulate body temperature. Also ensure minerals fortified feeds.
Cows	Carrying stage	Brucellosis	<p>Ensure hygienic conditions for the animals.</p> <p>If abortion is happened, isolate the animal immediately and report to the nearest veterinary hospital and closely follow the doctor's directions.</p> <p>Human beings are also vulnerable for the disease. Hence the farmers are advised to ensure personal hygiene.</p> <p>Calves of age 4 to 8 months should be vaccinated</p>

**** Warning colour codes of rainfall (for disaster management)**

Warning (Take actions)	Alert (Be prepared)	Watch (Be updated)	No warning (No actions)
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