



# Agromet Advisory Bulletin for the District, Malappuram

(Valid from 15.05.2024 to 19.05.2024)

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



Bulletin Number: Pilicode/Mpm-39/2024      Date: 14/05/2024

### A. Weather Summary of preceding five days





Rainfall, mm	Max. temp., °C	Min. temp., °C	R. H., %	Wind speed, Km/h
138.3	31.8 – 35.5	23.6 – 27.3	64 – 89	00 - 16





### B. Weather forecast for next five days

Parameters	15-05-2024	16-05-2024	17-05-2024	18-05-2024	19-05-2024
Average Rainfall, mm	15	4	3	5	10
Max. Temp, °C	33	33	33	33	33
Min. Temp, °C	25	25	25	25	25
Max. Relative Humidity, %	89	89	89	89	89
Min. Relative Humidity, %	64	64	64	64	64
Wind speed, km/h	2	2	4	2	2
Wind direction, degrees	230	230	290	270	270
Total cloud cover, octa	8	8	8	8	8

### C. Agrometeorological Advisories

Crop	Stages	Problems	Agro-meteorological advisories
	<b>Isolated heavy rainfall **</b>		
<b><u>General conditions</u></b>	<p>Isolated 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 rainfalls (From 64.5 mm to 115.5 mm within a time span of 24 hours) on May 14.</p> <p>There will be light to moderate rainfalls (From 15.6 mm to 64.4mm within a time span of 24 hours) from May 15 to 18.</p>		
<b><u>General Recommendations</u></b>	<p>There may be isolated heavy summer rains in the evening time. Summer rains have prime role in coping up drought. Hence maximum water harvesting should be ensured in the fields. Clean the rain pits. Cover the soil with dried leaves, especially the basins of crops. The opened tree basins which were partially closed after fertilizer application, can act as very good water harvesting structures. Divert the runoff water to such tree basins by drawing furrows.</p> <p>Keep vigilance while drying the harvested produces like seeds, cashew nuts, copra and rubber in open conditions. Provide props to Nendran banana.</p>		

Coconut	All stages	<p style="text-align: center;"><b>Rhinoceros beetle</b></p>  <p style="text-align: center;">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 3<sup>rd</sup> and 4<sup>th</sup> leaf whirls 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	Various growth stages	<p style="text-align: center;"><b>Rugose White fly</b></p> 	<p>As this is a sap sucking pest, its infestation will be heavy during the hot and dry climatic periods.</p> <p>The sticking property of the gum secreted by the insects may lose in moist conditions. Adopting mulching and irrigations may help the plants to keep the leaves' surfaces moist. On young palms intermittently sprinkle water on the leaves also.</p>
Black pepper	Different stages	<p style="text-align: center;"><b>Wilting due to drought</b></p> 	<p>Protect the plants from direct sunlight by smothering the basal portions of the vines with dried banana leaves, plated coconut leaves etc.. Give protective irrigations one in every two weeks.</p>
Banana	Various stages of growth	<p style="text-align: center;"><b>Yellowing of leaf/Sigatoka leaf spot etc.</b></p> 	<p>As a profiliatic measure drench the plant basins with Pseudomonas solution (scale: 20 g Psudomonas/litre of water)</p>

Cowpea	Various stages	<p style="text-align: center;"><b>Red spider mite</b></p> 	<p>Spray Spiromecifen 0.7 ml per litre on upper and lower sides of the leaves</p>
Cashew	Harvesting stage	<p style="text-align: center;"><b>Root and stem borer</b></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>
Poultry and pet birds	Different stages	<p style="text-align: center;"><b>Summer stress</b></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 style="text-align: center;"><b>Summer Stress</b></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> <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.</p>

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

<b>Warning (Take actions)</b>	<b>Alert (Be prepared)</b>	<b>Watch (Be updated)</b>	<b>No warning (No actions)</b>
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