



**Tamil Nadu Agricultural University**  
**&**  
**India Meteorological Department**  
**Agromet Advisory Bulletin for the Virudhunagar district**  
**Bulletin No. 075/2022 Issued on 20.09.2022**  
**(From 21<sup>st</sup> September 2022 to 25<sup>th</sup> September 2022)**  
 Issued jointly by AMFU Unit, Agricultural Research Station, Kovilpatti,  
 TNAU & IMD



Weather Summary for the period since the issue of last bulletin 74 (13.09.2022) for Tamil Nadu. Maximum temperature ranged on 30-37°C and minimum temperature ranged on 22-27°C, over the State. Kodaikanal and Uthagamandalam recorded maximum temperature ranged on 18-21°C and minimum temperature ranged on 9-11°C. During this period isolated distribution with very light to Light intensity of rainfall was recorded in Tamil Nadu.

**Weather Summary for Virudhunagar district**

Past week weather Summary (15.09.2022 to 19.09.2022)					Weather Parameters	Ensemble weather forecast valid until 08:30 hrs of 25.09.2022				
Day 1 15/09	Day 2 16/09	Day 3 17/09	Day 4 18/09	Day 5 19/09		Day 1 21/09	Day 2 22/09	Day 3 23/09	Day 4 24/09	Day 5 25/09
0.5	1.3	0.0	0.0	9.7	<b>Rainfall (mm)</b>	3	0	0	3	5
37	36	36	37	37	<b>Max. Temp. (°C)</b>	36	36	36	36	34
23	23	25	25	24	<b>Min. Temp. (°C)</b>	26	27	27	27	25
4	3	5	5	5	<b>Cloud cover (Octa)</b>	5	4	4	5	5
75	66	69	63	71	<b>Relative humidity - Mor. (%)</b>	65	65	65	70	70
52	47	51	57	55	<b>Relative humidity - Eve. (%)</b>	50	45	45	55	60
4	1	13	8	7	<b>Wind speed (kmph)</b>	12	12	10	10	8
50/NE	360/N	160/S	320/NW	270/W	<b>Wind direction (dd)</b>	250/W	250/W	250/W	250/W	200/S

**Weather forecast for next five days: 21.09.2022 to 25.09.2022**

According to district forecast issued by the India Meteorological Department for Virudhunagar district, sky condition will be partly to generally cloudy sky. Light rainfall is predicted for day 1 (21.09.2022), day 4 (24.09.2022) and day 5 (25.09.2022). The Maximum temperature is expected to be around 34-36°C and Minimum temperature is expected to be around 25-27°C. Morning relative humidity is expected to be around 65-70 per cent and evening relative humidity is expected to be around 45-60 per cent. 24-hour wind speed is expected to be around 8-12 km per hour and the wind direction will be from West and South direction.

## Agromet Advisory

Crop/ Ecosystem	Stage / Activities	Advisories
Irrigated crops	Water management	Very light to light rainfall during past week and light rainfall is predicted for day 1 (21.09.2022), day 3(24.09.2022) and day 5 (25.09.2022). Hence, Farmers are requested to postpone the irrigation to avoid plant root suffocation. However, Farmers are advised to irrigate based on the local weather prevail.
Irrigated crops	Spraying	Moderate relative humidity with wind speed is conducive for disease spread. So, farmers are advised to take the prophylactic measures to control the disease spread.
Cotton	Germination to vegetative stage	Based on the local weather condition fertilizer application may be done with sufficient soil moisture.
Blackgram	vegetative stage	<p><b>Prevailed dry condition is favorable for Yellow Mosaic Virus.</b>  <b>Symptoms:</b> 1. The disease is prevalent on Black gram and Green gram. 2. The leaves show irregular yellow and green patches alternating with each other. 3. Then leaves turn completely yellow and became papery. 4. Infected leaves show necrotic symptoms. 5. Diseased plants stunted, mature late produce very few flower and pods. 6. Pods are reduced in size and shriveled. 7. No. of seeds are also reduced.  <b>Management-</b> Place yellow sticky traps 12 nos./ha .Spray methyl demeton 500ml/ha and repeat 15 days interval if it is needed.</p> <p><b>Tobacco cutworm:</b>  <b>Symptoms:</b> 1. Early instar larvae feed gregariously by scraping on the leaf. 2. Later instar larvae completely deover the leaves causing defoliation.  <b>Management :</b> 1. Setup light trap to monitor and kill the attracted the adult moth. 2. Install pheromone trap @ 5 Nos./acre. 3. Removal and destruction of egg masses. 3. Spray Chlorantraniliprole 18.5% SC @ 60ml or Flubendiamide 39.35% SC @40ml in 200litres of water per acre.</p>
Groundnut	Flowering stage	<p><b>Red Hairy Caterpillar:</b>  <b>Symptoms:</b> 1. Early instar larvae feed voraciously by scraping the under surface of the tender leaves. 2. Grown up larvae feed voraciously on entire foliage, flowers and growing points. They often migrate from field to field in search of food after devastating the foliage in the field where they have hatched. 3. Severely damaged crop gives the appearance of having been grazed by cattle.  <b>Management:</b> 1. Collect and destroy the egg masses and voracious early instar larvae. 2. Set up bone fires or light trap up to 11.00 P.M. after receipt of rain to attract and kill the moths. 3. Spray Quinalphos 25% Ec @ 500ml in 300litres of water per acre. 4. Grow cowpea or red gram as an intercrop to attract adult moths to lay more eggs.</p>
Guava	Fruiting stage	Prevailing weather is conducive for Tea mosquito bug. Spray malathion 2ml/lit water. (or) Thiamethoxam 25WG 40g/acre. Spray 3% neem oil at 3 weeks interval for 4 times. (or) Collect and destroy the damaged plant parts.

Coconut		Due to lack of nutrient, Button shedding is noticed. Root feeding of the TNAU coconut tonic @ 200 ml / palm twice in a year at six months interval, increases number and size of nuts.
Chilli	Nursery preparation	Inputs such as seeds & fertilizer may be kept ready for the sowing based on the rainfall distribution. Incorporate the neem cake in the soil to protect the seedlings from pest and diseases.
Livestock	Sheep	<b>Haemorrhagic Septicaemia:</b> It is a serious acute disease of cattle and Buffaloes caused by a bacteria. Occurrence in more common in rainy season. Affected animals will have high fever, salivation, respiratory distress, and swelling in the throat and neck region. In most of the cases, affected animals will die within 12 to 24 hrs. Disease transmission occurs through direct contact with the affected animals and ingestion of contaminated feed and water. <b>Treatment:</b> Treating the animals with suitable antibiotics at the early stage can prevent the death of the animals. <b>Control:</b> Annual vaccination should be followed before monsoon. Reducing stress to the animals may prevent the occurrence.

**SMS:** Rain: 21,24&25.09-3,3&5 mm. Blackgram- Yellow Mosaic Virus - Spray methyl demeton 500ml/ha. Tobacco cutworm- Spray Chlorantraniliprole 18.5% SC @ 60ml in 200litres of water per acre

<b>Tamil Nadu</b>		
Light to moderate Northwesterlies/Westerlies prevails over the region in the lower tropospheric levels.		
Next five days	Weather warning	<ul style="list-style-type: none"> <li>☐ Light to moderate rain with thunderstorm &amp; lightning is likely to occur at isolated places over Tamilnadu, Puducherry &amp; Karaikal area on Day 1 (21.09.2022).</li> <li>☐ Light to moderate rain with thunderstorm &amp; lightning is likely to occur at isolated places over Western Ghats &amp; adjoining districts, coastal Tamilnadu, Puducherry &amp; Karaikal area on Day 2 (22.09.2022).</li> <li>☐ Light to moderate rain is likely to occur at isolated places over Western Ghats &amp; adjoining districts, coastal Tamilnadu, Puducherry &amp; Karaikal area on Day 3 (23.09.2022) &amp; Day 4 (24.09.2022).</li> <li>☐ Light to moderate rain is likely to occur at isolated places over Tamilnadu, Puducherry &amp; Karaikal area on Day 5 (25.09.2022).</li> </ul>

Professor and Head  
Agricultural Research Station  
Kovilpatti