



**Tamil Nadu Agricultural University**  
&  
**Indi Meteorological Department**  
**Agromet Advisory Bulletin for the Tirunelveli 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 Tirunelveli 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<br>15/09                                       | Day 2<br>16/09 | Day 3<br>17/09 | Day 4<br>18/09 | Day 5<br>19/09 |                                     | Day 1<br>21/09  | Day 2<br>22/09 | Day 3<br>23/09 | Day 4<br>24/09 | Day 5<br>25/09 |
| 0.0  | 0.0            | 0.0            | 0.0            | 0.0            | <b>Rainfall (mm)</b>                | 4   | 0              | 0              | 0              | 6              |
| 37   | 37             | 37             | 37             | 37             | <b>Max. Temp. (°C)</b>              | 36  | 36             | 36             | 36             | 36             |
| 25   | 25             | 25             | 25             | 25             | <b>Min. Temp. (°C)</b>              | 25  | 25             | 25             | 25             | 25             |
| 2  | 3              | 3              | 5              | 3              | <b>Cloud cover (Octa)</b>           | 5   | 4              | 4              | 5              | 5              |
| 60   | 67             | 66             | 60             | 66             | <b>Relative humidity - Mor. (%)</b> | 70  | 65             | 65             | 65             | 70             |
| 41   | 40             | 42             | 38             | 39             | <b>Relative humidity - Eve. (%)</b> | 50  | 45             | 45             | 45             | 60             |
| 2  | 0              | 1              | 1              | 2              | <b>Wind speed (kmph)</b>            | 4   | 4              | 4              | 4              | 4              |
| 320/NW   | 0/N            | 320/NW         | 320/NW         | 320/NW         | <b>Wind direction (dd)</b>          | 270/W   | 270/W          | 270/W          | 290/W          | 290/W          |

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

According to district forecast issued by the India Meteorological Department for Tirunelveli district, sky condition will be partly to generally cloudy sky. Light rainfall is predicted for day 1 (21.09.2022) and day 5 (25.09.2022). The Maximum temperature is expected to be around 36°C and Minimum temperature is expected to be around 25°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 4 km per hour and the wind direction will be from West direction.

## Agro Advisory

| Crop/<br>Ecosystem  | Stage /<br>Activities  | Advisories  |
|---------------------|------------------------|---|
| Irrigated crops     | Water management       | No rainfall during past week and light rainfall is predicted for day 1 (21.09.2022) and day 5 (25.09.2022). Farmers are advised irrigate the crop.  |
| Horticultural crops | Spraying               | Moderate relative humidity is conducive for disease appearance. So, farmers are advised to take the prophylactic measures to control the disease spread.  |
| Paddy               | Tillering stage        | <p><input type="checkbox"/>Prevailed weather is conducive for Leaf folder. So farmers are advised to spray Azadirachtin 0.03% 1000ml/ha. (or) Chlorontrinirole 18.5%SC @ 150g/ha. (or) Thiamethoxam 25% WG @ 100g/ha.</p> <p><input type="checkbox"/>The prevailing weather condition is conducive for incidence of Stem borer. Spray Azadirachtin 0.03% 1000 ml/ha (or) Carbofuran% 3 G @25 kg/ha (or) Chlorantraniliprole 18.5% SC 150 ml/ha.</p>   |
| Rainfed crops       | Field preparation      | <p><input type="checkbox"/>For conserving soil and water under rainfed conditions adopt soil and water conservation practices like broad bed and furrow, compartmental bunding and ridges and furrows for the dryland crops to be raised during the ensuing north east monsoon season. Use tractor drawn bund former, ridger and broad bed and furrow former for covering more area in a short time.</p> <p><input type="checkbox"/>Input arrangements may be made for the ensuing northeast monsoon sowing.</p>  |
|                     | Seed treatment         | Adoption of sowing operation using the recent rainfall, farmers are advised to practice the seed treatment with chemicals like, Bevestin 2 g/kg of seed followed (24 hrs later) bio fertilizer treatment viz., rhizobium 3 pkts for pulses; azospirillum 3 pkts for cereals and millets with phosphobacteria 3 pkts using rice gruel as sticking agent.   |
|                     | Seed hardening         | <p>To increase the speed of germination and germination percentage under rainfed situation seed hardening is must.</p> <p><b>Sorghum</b> - 2% Potassium dihydrogen phosphate (or) - 2 % Potassium chloride Soaking time - 16 hours</p> <p><b>Cotton</b> - 2 % Potassium chloride. Soaking time - 10 hours (2% - Dissolve 20 gm of salt in 1000 ml of water. Soak 1 kg of seed in 650 ml of this solution and dry back to original moisture.)</p> <p><b>Pulses, black gram, green gram</b> - 100 ppm Zinc sulphate, 100 ppm Manganese sulphate. Dissolve 1000 mg of salt in 1000 ml of water. Soak 1 kg of seed in 350 ml of the solution for 3 hours and dry back to original moisture or weight.</p> |
|                     | Selection of varieties | For sowing during the ensuing northeast monsoon season under rainfed conditions select drought tolerant and pest and disease resistant varieties. KC 3 & K12 in Cotton, CoH(M) 6 in Maize, K 8 and K 12 in Sorghum, Vamban 6 & 8 in Black gram, CO 7 & CO 8 in Green gram are suitable for rainfed conditions.  |
| 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.   |

**SMS:** Rain: 21&25.09- 4&6 mm. Ploughing to be done. Seed- Cotton (KC 3 & K12), Maize (CoH(M) 6), Sorghum (K 8 and K 12), Black gram (Vamban 6 & 8, MDU 1), Green gram (CO 7 & CO 8) to be kept ready.

| <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><input type="checkbox"/> 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><input type="checkbox"/> 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><input type="checkbox"/> 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><input type="checkbox"/> 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> |

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