



**Tamil Nadu Agricultural University**  
&  
**India Meteorological Department**  
**Agromet Advisory Bulletin for the Thoothukudi district**  
**Bulletin No. 104/2022 Issued on 30.12.2022**  
**(From 31<sup>st</sup> December 2022 to 04<sup>th</sup> January 2023)**  
Issued jointly by AMFU Unit, Agricultural Research Station,  
Kovilpatti, TNAU & IMD



Weather Summary for the period since the issue of last bulletin 103 (27.12.2022) for Tamil Nadu. Maximum temperature ranged on 26-34°C and minimum temperature ranged on 19-25°C, over the State. Kodaikanal and Uthagamandalam recorded maximum temperature ranged on 14-20°C and minimum temperature ranged on 7-11°C. Wide spread distribution with very light to moderate intensity of rainfall was recorded during previous week in Tamil Nadu.

**Weather Summary**

Past week weather Summary (27.12.2022 to 29.12.2022)			Weather Parameters	Ensemble weather forecast valid until 08:30 hrs of 04.01.2023				
Day 1 27/12	Day 2 28/12	Day 3 29/12		Day 1 31/12	Day 2 01/01	Day 3 02/01	Day 4 03/01	Day 5 04/01
6.8	7.4	2.1	<b>Rainfall (mm)</b>	2	0	0	1	1
31	30	30	<b>Max. Temp. (°C)</b>	31	31	32	32	31
23	25	23	<b>Min. Temp. (°C)</b>	23	24	24	23	23
5	8	4	<b>Cloud cover (Octa)</b>	3	3	4	3	4
94	95	90	<b>Relative humidity - Mor. (%)</b>	80	80	80	80	80
83	78	78	<b>Relative humidity - Eve. (%)</b>	60	60	60	60	60
0	3	7	<b>Wind speed (kmph)</b>	12	12	12	12	12
0/N	70/ENE	90/E	<b>Wind direction (dd)</b>	70/ENE	360/N	70/ENE	50/NE	20/NNE

**Weather forecast for next five days: 31.12.2022 to 04.01.2023**

According to district forecast issued by the India Meteorological Department for Thoothukudi district, sky condition will be partly cloudy sky. Very light rainfall is predicted on day 1 (31.12), day 4 (03.01) & day 5(04.01). The Maximum temperature is expected to be around 31-32°C and Minimum temperature is expected to be around 23-24°C. Morning relative humidity is expected to be around 80 per cent and evening relative humidity is expected to be around 60 per cent. 24-hour wind speed is expected to be around 12 km per hour and the wind direction will be from East- North East, North, North East and North-Northeast direction.

## Agromet Advisory

Crop (Varieties)	Stage	Crop Specific Advisory
Irrigated crops	Water management	Very rainfall is predicted on day 1 (31.12), day 4 (03.01) & day 5(04.01), dry spell may occur during the week. Hence, the farmers are requested to irrigate the crop.
Rainfed / Horticultural crop	Spraying	If the weather with high morning relative humidity continues without rainfall, it favors for disease occurrence. Hence, farmers are requested to monitor the crops and go for fungicide application.
Rice	Panicle initiation stage	<ul style="list-style-type: none"> <li><input type="checkbox"/> High humidity and optimum temperature are the important factors for the leaf folder incidence. To control spray CartapHydrochloride 50 % SP 1000 g/ha (or) Chlorantraniliprole 18.5% SC 150 g/ha.</li> <li><input type="checkbox"/> To combat the drought, spray PPFM @ 250-400ml /200 litres of water or spray 2-3kg of KCL with 200 litres of water at evening hours.</li> <li><input type="checkbox"/> Rice Blast disease is favored by long periods of free moisture, high humidity, little or no wind at night, and night temperatures between 17 and 22°C. Leaf wetness from dew or other sources is required for infection. Sporulation is greatest when relative humidity is above 93%. Management: If the disease aggravates spray Tricyclazole 1.5ml/lit followed by 15 days interval 2 times. Spray before 11.00 am or after 3.00 pm.</li> </ul>
Cotton	Flowering stage	Relative humidity and rainfall have positive correlation with Leafhopper incidence. If the incidence is noticed spray Imidacloprid 200 SL 100 ml/ha (or) apply neem oil formulation 0.5 % (or) neem oil 3% thrice at fortnightly intervals.
Sorghum	Grain development stage	<ol style="list-style-type: none"> <li>1. Temperature of 28-30°C and High humidity causes for red rot infestation. Symptoms: This is the major devastating disease in grain sorghum and Fodder sorghum. Many lesions (Brown to reddish) joined together on leaves and blighting of leaves occurred. In severe cases, reddening happens inside the stem and on the feeder roots also. Management: spraying of Mancozeb 1.5kg/1Litre. Two times at 15 days interval.</li> <li>2. As rainfall is predicted, early sown crops attain maturity may be harvested to avoid grain loss due to colour discolouration.</li> </ol>

**SMS:**Rain: 31.12.3.&4.01-2,1&1mm. Rice -leaf folder- spray Chlorantraniliprole 18.5% SC 150 g/ha. Sorghum- red rot-. Mancozeb 1.5kg/1Litre.Cotton- Leafhopper- neem oil 3%.

<b>Tamil Nadu</b>		
Light to moderate Easterlies/ Northeasterlies 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 rain is likely to occur at one or two places over south Tamilnadu. Haze/Mist is likely to occur at one or two places over north interior Tamil Nadu during morning hours on Day 1(31-12-2022)</li> <li><input type="checkbox"/> Dry weather is likely to prevail over Tamilnadu, Puducherry &amp; Karaikal area on Day 2(01-01-2023) to Day 5(04-01-2023)</li> </ul>

<b>Extended range forecast</b>		<b>Rainfall:</b> <ul style="list-style-type: none"><li>☐ <b>Week-1 (30<sup>th</sup> Dec 2022 – 05<sup>th</sup> Jan 2023): Generally dry conditions are likely over Tamilnadu, Puducherry and Karaikal during the week-1.</b></li><li>☐ <b>Week-2 (06<sup>th</sup> -12<sup>th</sup> Jan 2023): Generally dry conditions or light rain is likely over Tamilnadu, Puducherry and Karaikal during the week-2.</b></li></ul>
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**Professor and Head  
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