



Tamil Nadu Agricultural University
&
India Meteorological Department
Agromet Advisory Bulletin for the Virudhunagar district



Bulletin No. 104/2022 Issued on 30.12.2022
(From 31st December 2022 to 04th 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
6.5	2.7	0.0	Rainfall (mm)	0	0	0	0	2
31	32	32	Max. Temp. (°C)	32	32	33	33	34
23	24	22	Min. Temp. (°C)	21	22	22	23	23
6	5	3	Cloud cover (Octa)	1	2	2	2	2
94	80	82	Relative humidity - Mor. (%)	90	90	90	90	90
65	55	57	Relative humidity - Eve. (%)	50	40	50	50	50
6	9	7	Wind speed (kmph)	4	6	12	12	6
50/NE	70/ENE	70/ENE	Wind direction (dd)	20/NNE	20/NNE	20/NNE	20/NNE	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 Virudhunagar district, sky condition will be mainly clear sky. Very light rainfall is predicted on 04.01.2023. Maximum temperature is expected to be around 32-34°C. Minimum temperature is expected to be around 21-23°C. Morning relative humidity is expected to be around 90 percent and evening relative humidity is expected to be around 40-50 per cent. 24 hour wind speed is expected to be 4-12 km per hour and the wind direction will be from North-Northeast.

Agromet Advisory

Crop/ Ecosystem	Stage / Activities	Advisories
Irrigated crops	Water management	Very light rainfall is predicted on 04.01.23. chance for dry spell. Hence, the farmers are requested to irrigate the crops.
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 regularly and go for fungicide application.
Rice	Tillering stage	<ol style="list-style-type: none"> 1. High humidity and optimum temperature are the important factors for the leaf folder incidence. Management: •Release <i>Trichogramma chilonis</i> @5 cc (1,00,000/ha) thrice at 37, 44 and 51 days. Avoid excessive nitrogenous fertilizers. Keep the bunds clean. Spray NSKE 5 % or carbaryl 50 WP 1 Kg /ha. 2. If the attack of leafhopper exceeds the economic damage level then chemical insecticides such as Cartahydrochloride 50% SP 1000g/ha or Chlorantraniliprole 18.5% SC 150 ml/ha or Fipronil 80% WG 50-62.5 kg/ha or Flubendiamide 20% WG 125-250 kg/ha or Profenophos 50 EC 1000ml/ha. Any of these insecticides mixed with 500 litres of water per hectare can be sprayed in the morning or evening to control infestation. 3. Cloudy or rainy weather favours Rice Gall midge incidence. Symptoms: Elongation of leaf sheath. Transformation of leaf sheath into tubular gall. It is also known as silvershoot / anaikomban. Management: Spray carbosulfan 25%EC 800-1000 ml/ha. 4. 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. 5. 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.
Sorghum	Grain development stage	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.
Onion		Bulb rot and Basal rot: Symptoms: 1. Leaves turn yellow and then dry up slowly.2. Plants show drying up. 3. Slowly all the leaves show drying of foliage. 4. Bulb of the affected plants get rotted. 5. There will be a whitish mouldy growth on the scale. Management: 1. Follow crop Rotation and Intercropping. 2. Soil drenching with copperoxy chloride (0.2%)
Cotton	Boll development 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

Cotton	Boll development 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.
Livestock	sheep	Enterotoxaemia: A Bacterial disease-causing severe illness and mortality in all ages of sheep and goats. Occurrence is more common after rainy season. Clinical Signs: Young lambs die suddenly without any symptoms. severe stomach pain , diarrhea difficulty in breathing convulsions before death may be observed in some animals. Prevention: Young animals should be vaccinated at 6 weeks of age

SMS: Rain: 4.1.23-2 mm. Rice- leaf folder- Spray NSKE 5 % or carbaryl 50 WP 1 Kg /ha.
Sorghum- Red rot- Mancozeb 1.5kg/1Litre. Cotton- Leafhopper- neem oil 3%.

Tamil Nadu		
Light to moderate Easterlies/ Northeasterlies prevails over the region in the lower tropospheric levels.		
Next five days	Weather warning	<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) <input type="checkbox"/> Dry weather is likely to prevail over Tamilnadu, Puducherry & Karaikal area on Day 2(01-01-2023) to Day 5(04-01-2023)
Extended range forecast		Rainfall: <input type="checkbox"/> Week-1 (30 th Dec 2022 – 05 th Jan 2023): Generally dry conditions are likely over Tamilnadu, Puducherry and Karaikal during the week-1. <input type="checkbox"/> Week-2 (06 th -12 th Jan 2023): Generally dry conditions or light rain is likely over Tamilnadu, Puducherry and Karaikal during the week-2.

Professor and Head
Agricultural Research Station
Kovilpatti