



**Tamil Nadu Agricultural University**  
&  
**India Meteorological Department**  
**Agromet Advisory Bulletin for the Virudhunagar district**  
**Bulletin No. 100/2022 Issued on 16.12.2022**  
**(From 17<sup>th</sup> December 2022 to 21<sup>st</sup> December 2022)**  
Issued jointly by AMFU Unit, Agricultural Research Station,  
Kovilpatti, TNAU & IMD



Weather Summary for the period since the issue of last bulletin 99 (13.12.2022) for Tamil Nadu. Maximum temperature ranged on 24-34°C and minimum temperature ranged on 19-26°C, over the State. Kodaikanal and Uthagamandalam recorded maximum temperature ranged on 14-18°C and minimum temperature ranged on 6-11°C. During this period more places distribution with very light to moderate intensity of rainfall was recorded in Tamil Nadu.

**Weather Summary**

Past week weather Summary (08.12.2022 to 12.12.2022)					Weather Parameters	Ensemble weather forecast valid until 08:30 hrs of 18.12.2022				
Day 1 08/12	Day 2 09/12	Day 3 10/12	Day 4 11/12	Day 5 12/12		Day 1 14/12	Day 2 15/12	Day 3 16/12	Day 4 17/12	Day 5 18/12
0.0	0.0	0.0	9.3	11.2	<b>Rainfall (mm)</b>	0	0	4	4	4
34	33	33	34	29	<b>Max. Temp. (°C)</b>	30	31	30	29	29
24	23	23	23	21	<b>Min. Temp. (°C)</b>	20	21	20	19	19
7	6	7	5	2	<b>Cloud cover (Octa)</b>	6	6	7	7	8
81	87	90	81	87	<b>Relative humidity - Mor. (%)</b>	90	90	90	90	90
78	59	74	83	55	<b>Relative humidity - Eve. (%)</b>	50	50	50	70	80
3	0	4	5	5	<b>Wind speed (kmph)</b>	6	6	6	6	6
320/ NNW	0/N	140/ SSE	250/W	70/E	<b>Wind direction (dd)</b>	20/ NNE	50/EN E	70/E	70/E	110/ ESE

**Weather forecast for next five days: 17.12.2022 to 21.12.2022**

According to district forecast issued by the India Meteorological Department for Virudhunagar district, sky condition will be moderate to high cloud cover. Light rainfall is predicted on day 3 (19.12.2022) to day 5 (21.12.2022). Maximum temperature is expected to be around 29-31°C. Minimum temperature is expected to be around 19-21°C. Morning relative humidity is expected to be around 90 percent and evening relative humidity is expected to be around 50-80 per cent. 24 hour wind speed is expected to be 6 km per hour and the wind direction will be from North-Northeast, East-Northeast, East and East-Southeast direction.

### Agromet Advisory

Crop/ Ecosystem	Stage / Activities	Advisories
Irrigated crops	Water management	Since rainfall is predicted for four days, chance for rainfall. Hence, the farmers are requested to plan the irrigation based on the local weather and crop requirement.
Rainfed / Horticultural crop	Spraying	High Relative humidity favours the disease occurrence. If rainfall occurrence is postponed/ fail, farmers are request to spray fungicide.
Rainfed /Irrigated crops	Crop booster	Crop booster for nutrient and growth regulators is available at Agricultural Research Station, Kovilpatti. Crop booster such as Maize maxim (Tassel initiation and grain filling stages), Pulse wonder (Peak flowering stage), Groundnut rich (Peak flowering and pod development) and Cotton plus (Flowering and boll formation) may be applied as foliar spray.
Pulse	Pod development stage	Relative humidity chance for powdery mildew in pulse. Spray Carbendazim 500 g or wettable sulphur 1500g/ha or Propiconazole 500 ml/ha at initiation of the disease and 10 days later.
Maize	Corn development stage	1. The prevailing weather condition is conducive for fall armyworm Incidence to manage this pest. At Tasseling and cob formation stage (60 – 65 DAS) Flubendiamide 480 SC 4 ml/10 lit. (or) Chlorantraniliprole 18.5 SC 4 ml/10 lit. 2. Apply foliar spray of maize maxim @ 3 kg / acre twice at tassel initiation and grain filling stages.
Rice	Tillering stage	1. High humidity and optimum temperature are the important factors for the leaf folder incidence. <b>Symptom:</b> Leaves fold longitudinally and larvae remains inside. Larva scrapes the green tissues of the leaves, becomes white and dry. During severe infestation the whole field exhibits scorched appearance. <b>Management:</b> •Release Trichogramma chilonis @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 or chlorpyriphos 20 EC 1250 ml/ ha. 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. 2. 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.
Sorghum	Grain formation 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)

Sorghum	Grain formation 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.
Chilli	Vegetative stage	Thrips showed positive correlation along with morning relative humidity. To control apply ethion 50 EC @ 2ml /litre to control thrips and mite damage.
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%)
Coconut		As wind speed is high So, famers are requested for earthing up around the root. • Cut the largest green leaves off the coconut palms. This can be done with a coconut hook or sickle. It will reduce the leverage effect of the wind force and prevent the coconut tree from being broken, uprooted and damaged.
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

**SMS:** Rain: 19-21.12-4,4&4mm. Wind- Banana – propping. If rainfall fails apply Carbendazim 500 g for Powdery mildew in pulse. Rice- spray Chlorantraniliprole 18.5% SC 150 g/ha. Maize- maize maxim @ 3 kg / acre.

Tamil Nadu		
Moderate Easterlies/ Northeasterlies prevail over the region in the lower tropospheric levels. Yesterday's Low Pressure Area over Southeast Bay of Bengal & adjoining East Equatorial Indian Ocean persists over the same region. It is likely to move westwards and maintain its intensity over South Bay of Bengal till morning of 17th December 2022.		
Next five days	Weather warning	<ul style="list-style-type: none"> <li><input type="checkbox"/> Light to moderate rain is likely to occur at one or two places over Tamilnadu, Puducherry &amp; Karaikal area on Day1 (17-12-2022) to Day 3(19-12-2022).</li> <li><input type="checkbox"/> Light to moderate rain is likely to occur at many places over Coastal Tamilnadu, Puducherry &amp; Karaikal area; Light to moderate rain is likely to occur at one or two places over Interior Tamilnadu on Day4 (20-12-2022).</li> <li><input type="checkbox"/> Light to moderate rain is likely to occur at many places over Coastal Tamilnadu, Puducherry &amp; Karaikal area; Light to moderate rain is likely to occur at one or two places over Interior Tamilnadu on Day5 (21-12-2022).</li> <li><input type="checkbox"/> Heavy rain is likely to occur at isolated places over Ramanathapuram, Pudukkottai, Sivaganga, Thanjavur, Tiruvarur,</li> </ul>

		Nagapattinam, Mayiladuthurai and Cuddalore districts of Tamilnadu and Karaikal on Day5 (21-12-2022)
Extended		<input type="checkbox"/> Week-1 (16h – 22nd December 2022): As per extended range predictions by dynamical models, near normal to slightly above normal rainfall is likely over southern and coastal districts of Tamilnadu, Puducherry and Karaikal and near normal rainfall is likely over rest of Tamilnadu during the week-1.

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