

 MSSRF Science for Sustainable Development	AgroMet Advisory Bulletin (AAB) Jointly released by Regional Meteorology Centre, Chennai – India Meteorology Department, Reddiarchathram Seed Growers Association & M. S. Swaminathan Research Foundation, Kannivadi Phone no.: 044 - 22541229 E mail: amfu.kannivadi@gmail.com Fax: 044 – 22541319				
	District :	Ramanathapuram	Forecast Period :	17/04/2024 to 21/04/2024	
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Significant past weather	From 12/04/2024 to 15/04/2024
	4 to 4
Parameters	Past Weather
Rainfall (mm)	4.7
Maximum Temperature (°C)	36-37
Minimum Temperature (°C)	26-28
Sky Condition (Octas)	5-6
Relative Humidity (%)	67-80
Wind Speed (kmph)	5-14

Ensemble Weather Forecast
 until **08:30Hrs of 21-04-2024**

Parameters	17-04-2024	18-04-2024	19-04-2024	20-04-2024	21-04-2024
	Wednesday	Thursday	Friday	Saturday	Sunday
Rainfall (mm)	1	0	0	0	0
Maximum Temperature (°C)	37	37	37	38	38
Minimum Temperature (°C)	27	27	28	27	27
Sky Condition (Octa)	7	4	5	5	7
Max. Relative Humidity (%)	70	70	70	70	70
Min. Relative Humidity (%)	50	50	50	50	50
Wind Speed (Kmph)	18	20	20	22	22
Wind Direction	SW	S	S	S	S

SMS Advisory	Chances of very light rain on 17 Apr. Maximum temperature would be in the range of 37°C to 38°C and the minimum temperature would be between 27°C - 28°C. Generally cloudy sky will appear for the next five days. Wind is expected with the speed of 18-22 Kmph from, Southwest & South directions.
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General Advisory:

There is a rise in maximum temperature for the forthcoming days, and due to this the soil moisture content may be reduced.

Hence, the horticultural farmers are advised to take up mulching around the root basin of the crop with dried leaves, grass and other farm wastes to retain the soil moisture content.

Livestock:

For livestock, the heat stress can be managed by spraying/ sprinkling water directly on the body of animals for a period of 1 to 5 minutes at an interval of 30-60 minutes. Cover the sides of the cow shed with wet gunny bags. Ensure the increased mineral supplementation to the animals

during hot weather to meet the increased demand for minerals. The potassium-rich mineral mixture should be preferred for your cattle.

Agriculture:

Due to hot and humid conditions, discomfort weather is likely at isolated pockets over the district during next five days (17.04.2024 to 21.04.2024). Hence farmers are advised to plan their field activities during morning and evening hours and avoid working in the field during 12 noon to 4 Pm. Stay safe and take care. Drink adequate water.

Wind with the speed of 18 to 22 kmph is expected for the next five days. Hence farmers are advised to provide propping in sugarcane and to provide adequate support for crops like Banana, Papaya, Guava and Moringa, to prevent from lodging. For Gourds check the structures /pandhals for damages in the strings and poles and provide adequate support. Postpone the spraying activity.

Weather Based Agro-Advisories: (Coconut, Cotton & Animal Husbandry).

Coconut:

Due to the prevailing hot weather conditions, the incidence of Rugose Spiralling Whitefly (RSW) was noticed in coconut trees. These insects deposit honey-like waste material on the lower surface of coconut grooves. The leaves turn dark due to the spread of black fungus on them.

To control this, farmers can spray water with high pressure on the bottom and top of the coconut leaves.

Installation of yellow sticky trap @ 2 Nos. per acre can be used to attract and destroy mother insects.

When the damage is severe, add 5 ml of neem oil and 1 ml of sticky liquid and spray evenly on the base of the leaves.

Take Maida flour @ 25gm per litre of water, boil it, mix it with water and then spray it well on the black mould.

Cotton:

The incidence of mealybug is expected in cotton. The damage symptoms are heavy clustering of mealy bugs usually seen under the surface of leaves as a thick mat with waxy secretion and excreting copious amounts of honeydew on which the fungus sooty mould grows.

Affected plants appear sick and black, resulting in reduced fruiting capacity. If symptoms observed in, the cotton field apply Neem oil 2% (20ml/litre)

or Fish oil rosin soap 25g/litre of water or Profenophos@ 800ml/ac.

Animal Husbandry:

Proper maintenance of cattle sheds is essential during the prevailing hot weather conditions.

The direction of the sheds should be arranged in such a way that good air is available and at the same time, the heat of the sun does not directly affect the animals.

It is better if the length of the sheds is east-west. Growing trees in areas where there is strong wind will help in reducing wind speed to some extent.