
 <b>MSSRF</b> Science for Sustainable Development	<b>AgroMet Advisory Bulletin (AAB)</b> 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: <a href="mailto:amfu.kanniwadi@gmail.com">amfu.kanniwadi@gmail.com</a> Fax: 044 – 22541319						
	District :	<b>Theni</b>	Forecast Period :	<b>17/06/2023</b>	to		<b>21/06/2023</b>
	Bulletine No :	<b>MSSRF/ THN/ 048/ 2023</b>	Release Date :	<b>16/06/2023</b>			

Significant past weather		From	13/06/2023	to	15/06/2023
Parameters	Past Weather				
Rainfall (mm)	0.7				
Maximum Temperature (°C)	39-40				
Minimum Temperature (°C)	26-27				
Sky Condition (Octas)	3-4				
Relative Humidity (%)	39-67				
Wind Speed (kmph)	6-8				

**Ensemble Weather Forecast until 08:30Hrs of 21-06-2023**

Parameters	17-06-2023	18-06-2023	19-06-2023	20-06-2023	21-06-2023
	Saturday	Sunday	Monday	Tuesday	Wednesday
Rainfall (mm)	2	6	10	8	6
Maximum Temperature (°C)	41	40	39	39	39
Minimum Temperature (°C)	26	25	25	24	24
Sky Condition (Octas)	4	8	8	8	6
Max. Relative Humidity (%)	60	70	70	80	70
Min. Relative Humidity (%)	30	30	40	50	50
Wind Speed (Kmph)	12	8	10	8	10
Wind Direction	W	W	W	W	W

<b>SMS</b> <b>Advisory</b>	Chances of light rain during 17, 18, 21 Jun & Moderate rain on 19, 20 Jun. Maximum temperature would be in the range of 39°C to 41°C and the minimum temperature would be between 24°C - 26°C. Cloudy sky will appear for the next five days. Wind expected with the speed of 8-12 Kmph from West direction.
-------------------------------	--

**Extended range Forecast for next week (16<sup>th</sup> – 22<sup>nd</sup> June 2023):**

**General Advisory**

**Rainfall:**

As per extended range predictions, there is possibility of below normal to near normal rainfall likely over the district during 16<sup>th</sup> to 22<sup>nd</sup> June 2023.

**Maximum Temperature:**

Maximum temperatures is likely to be generally near normal to slightly above normal and are likely to be in the range 30°C to 34°C over the plains of the district during next week. 16<sup>th</sup> to 22<sup>nd</sup> June 2023.

**Minimum Temperature:**

Minimum temperatures are likely to be near normal to slightly above normal and are likely to be in the range 20°C to 24°C over the district during next week 16<sup>th</sup> to 22<sup>nd</sup> June 2023.

## **HEATWAVE WARNING:**

For the next two days (17.06.2023 & 18.06.2023), due to the increase in maximum temperature, there are chances of the heatwave, likely to occur in isolated places of Tamil Nadu. Hence farmers are advised to plan their field activities during morning and evening hours and avoid working in the field during the noon time. Stay safe and take care. Drink adequate water.

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.

Heavy rain is likely to occur at isolated places over the district on 20 June 2023. Farmers are advised to act swiftly to repair the water channels, farm ponds and other water bodies to harvest the rain water. During these days farmers are advised to avoid irrigation, intercultural operations and application of plant protection measures to the standing crops, provide adequate drainage facilities in the fields to avoid water stagnation due to heavy rainfall, do not allow the animals to grazing outside, standing near the trees or electric poles & provide safe shelter.

### **Weather Based Agro-Advisories: (Banana, Cardamom & Animal Husbandry)**

#### **Banana:**

Potassium deficiency symptoms are noticed in some banana fields. The symptoms are, interval profusely smaller of leaves, premature yellowing of the plant, lamina folds downwards, while the midrib bends and fractures, leaving the distal half of the leaf hanging.

To manage the deficiency, farmers are advised to go for a foliar spray of Potassium Chloride (KCl) @ 10gm per litre of water at 10 days intervals, till the symptom disappears.

#### **Cardamom:**

The occurrence of Thrips is noticed in Cardamom. The symptoms of damage are Panicles stunted, formation of corky encrustations on pods resulting in their malformed and shriveled condition and Shedding of flowers and immature capsules thus reducing the total number of capsules formed.

To control, spray Thiamethoxam @ 5gm + sticky agent @ 10ml per 10 litres of water.

#### **Animal Husbandry:**

Due to prevailing weather conditions, there is a chance for Black quarter disease in the cow. This disease usually affects young cattle of 6 months to about 2-3 years of age. The symptoms are crepitating, swelling in the hind or fore quarter, lameness, and muscles shows trembling with violent twitching. Death usually occurs within 24 hours. Hyper immune serum (HIS) is used to control explosive outbreaks. Immediately contact the local veterinarian to treat the disease. Vaccinate the cow every year one month before the rainy season.