DISTRICT LEVEL

Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 025/2017

For the period 0830 IST, 28th MAR 2017 to

0830 IST, 0031st MAR 2017

Issued on TUESDAY, 28th MAR 2017

Issued by
DDGM, Regional Meteorological Centre, India Meteorological Department, Chennai in collaboration with TNAU and nine AMFU’s of Agro climatic Zones of the Tamil Nadu state
# Agro climatic zones of the state

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Agro climatic zone</th>
<th>Districts</th>
<th>Agro met field Unit (AMFU) location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Northeastern zone</td>
<td>Kanchipuram, Tiruvallur, Cuddalore Tiruvannamalai, Chennai, Villupuram, Vellore</td>
<td>Chennai</td>
</tr>
<tr>
<td>2</td>
<td>Northwestern zone</td>
<td>Dharmapuri, Krishnagiri, Salem and Namakkal</td>
<td>Namakkal</td>
</tr>
<tr>
<td>3</td>
<td>Western Zone</td>
<td>Erode, Tiuppur and Coimbatore,</td>
<td>Coimbatore,</td>
</tr>
<tr>
<td>4</td>
<td>Cauvery Delta zone</td>
<td>Thanjavur, Nagapattinam, Thiruvarur, Karur, Perambalur, Ariyalur and Tiruchirapalli</td>
<td>Adudurai</td>
</tr>
<tr>
<td>5</td>
<td>Southern zone</td>
<td>Virudhunagar, Tirunelveli and Toothugudi</td>
<td>Kovilpatti</td>
</tr>
<tr>
<td>6</td>
<td>South Zone</td>
<td>Pudukottai, Madurai, Dindigul, Theni, Ramanathapuram and Sivagangai</td>
<td>Kannivadi</td>
</tr>
<tr>
<td>7</td>
<td>High rainfall zone</td>
<td>Kanyakumari</td>
<td>Pechiparai</td>
</tr>
<tr>
<td>8</td>
<td>Hilly zone</td>
<td>Nilgiris</td>
<td>Ooty</td>
</tr>
<tr>
<td>9</td>
<td>Coastal Zone</td>
<td>Karaikal and Pondicherry</td>
<td>Karaikal</td>
</tr>
</tbody>
</table>
Past Weather Summary for the period 24.03.17 to 27.03.17 for the State of Tamilnadu & Puducherry

Temperature:

Maximum Temperature of range 31°C – 39°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 18°C – 23°C during the period.

Minimum temperature of range 19°C - 26°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 09°C - 12°C during the same period.

Spatial distribution of Rainfall

<table>
<thead>
<tr>
<th>Spatial distribution of Rainfall</th>
<th>Date</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Widespread (Most places)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Fairly widespread (Many places)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Scattered (Few Places)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Isolated (Isolated Places)</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Dry</td>
<td>24.0307 to 27.03.17</td>
<td>Tamil Nadu &amp; puducherry</td>
</tr>
</tbody>
</table>

Chief Amounts of Rainfall (in cms):

24.03.17: NIL
25.03.17 : NIL
26.03.17 : NIL
27.03.17 : NIL
DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 28.03.2017
VALID FOR THE NEXT 5 DAYS

INDIA METEOROLOGICAL DEPARTMENT
TAMILNADU DISTRICTS

Forecast of Rainfall in Cms

29.03.17 to 20.04.17

Legend:
- Above 24.5
- No Rain
- 0.1 - 0.4
- 0.5 - 2.4
- 2.5 - 6.4
- 6.5 - 12.4
- 12.5 - 24.4
Districtwise Agromet Advisories

Chennai, Kancheepuram, Villupuram, Thiruvannamalai, Thiruvallur, Vellore & Cuddalore

Livestock:

1. Due to increase in day temperature animals should not be allowed for grazing during hot part of the day, provide cool drinking water and shade to the animals to reduce heat stress.
2. Farmers are advised to withdraw the feed for the poultry during hot part of the day to avoid heat stroke and provide cool drinking water.
3. Farmers are advised to feed 100 to 200 grams of concentrate per day for sheep and goats due to non availability of sufficient pasture in the grazing land.
4. Dry fodder’s and feed ingredients used for the preparation of concentrate mixture should be dry and free from aflatoxin.
5. Apply Butox solution (2-3ml in one litter water) externally to remove ecto-parasites in sheep & goats.
6. Farmers are advised to keep the floor of the animal habitation dry to avoid hoof infection and to prevent fly breeding.

Agriculture (Krishi Vigyan Kendra, Kattupakkam)

Imp. Crops: Rice, Sugarcane and Groundnut

1. Two percent of DAP spray (Dissolve 4.5 kg of DAP in 10 litres of water previous day night and the supernatant liquid shall be mixed with 190 litres of water) may be done at the time of flowering and another dose fifteen days after the first spray for rice fallow pulses.
2. To control powdery mildew in rice fallow pulses, spray 5% Neem Seed Kernel Extract or Mancozeb @ 400 g/ac or Wettable Sulphur @ 1 kg/ac during morning or evening hours.
Thanjavur, Thiruvarur & Thiruchirapalli

Weather based Agro-Advisories
Crop: Rice, Black gram
Stage: Thaladi: Harvesting stage; Rice fallow Pulses: Maturity and Harvesting Stage
➢ Since dry weather is expected in next five days, irrigation is given to sesame, sugarcane and rice fallow cotton crops.

➢ In rice fallow blackgram is in maturity stage, harvesting to be done by picking the blackgram matured parts, drying and processing or uprooting the whole plants heaping, drying and processing.

➢ In rice fallow cotton, one hand weeding and earthing up to be done 45 DAS.

➢ Blackgram variety ADT 5 is more suitable for irrigated summer season crop.

Karur, Perambalur,

Weather based Agro-Advisories
Crop: Rice, Black gram
Stage: Thaladi: Harvesting stage; Rice fallow Pulses: Maturity and Harvesting Stage
➢ Since dry weather is expected in next five days, irrigation is given to sesame, sugarcane and rice fallow cotton crops.

➢ Blackgram variety ADT 5 is more suitable for irrigated summer season crop.

Nagapattinam, Ariyalur

Weather based Agro-Advisories
Crop: Rice, Black gram and Cotton
Stage: Thaladi: Harvesting stage;
Rice fallow Pulses: Maturity and Harvesting Stage
➢ Since dry weather is expected in next five days, irrigation is given to sesame, sugarcane and rice fallow cotton crops.

➢ In rice fallow blackgram is in maturity stage, harvesting to be done by picking the blackgram matured parts, drying and processing or uprooting the whole plants heaping, drying and processing.

➢ In rice fallow cotton, one hand weeding and earthing up to be done 45 DAS.

➢ Blackgram variety ADT 5 is more suitable for irrigated summer season crop.

Tirunelveli , Virudhunagar & Thoothukudi

Agromet advisories in relation to the anticipated weather having light to moderate cloud cover and moderate to high humidity
<table>
<thead>
<tr>
<th>Crop/ Farming system</th>
<th>Stage / Activities</th>
<th>Advisories</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton</td>
<td>Boll formation</td>
<td>In the prevailing weather condition, pink boll worm incidence is noticed in cotton. For controlling pink boll worm spray any one of the following insecticides</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Phosalone 35% EC 2 l/ ha</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Triazophos 40 EC 2.5 l/ ha</td>
</tr>
<tr>
<td>Chilli</td>
<td>Fruiting</td>
<td>The expected weather having light to moderate cloud cover and moderate humidity is conducive for the incidence of thrips in chilli. The affected plants show symptoms of crinkling and upward curling of leaves and elongation of petiole. For controlling this pest, spray imidachloprid 17.8 % SL @ 3 ml/ 10 l of water or dimethoate 30% EC@ 1 ml/ l.</td>
</tr>
<tr>
<td>Mango</td>
<td>Fruit setting stage</td>
<td>In the prevailing weather condition fruit fly incidence is noticed in mango. Spraying of Fenthion 2 ml/lit or malathion 2 ml/lit will control the pest. Ploughing the inter spaces will expose the pupae. Pheromone trap with methyl eugenol 1 ml in 1 litre of water + 1 ml of malathion solution will attract and kill the female insects. Take 10 ml of this mixture per trap and keep them in 25 different places in one hectare between 6 a.m. and 8 a.m. Collect and destroy the fallen fruits.</td>
</tr>
<tr>
<td>Citrus</td>
<td>Fruiting</td>
<td>In the prevailing weather condition thrips incidence is noticed in citrus. For controlling this pest spray malathion 0.5 mg/ lit.</td>
</tr>
</tbody>
</table>

**SMS:**

In the prevailing weather condition, cotton- pink boll worm- spray Phosalone 35% EC 2 l/ ha.

**Nilgiris**
Agro meteorological advisory for Nilgiris district

Ø No rainfall is expected in the district for next two days.
Ø To prevent soft rot disease in Lettuce, spray propiconazole 1ml/lit.
Ø Since no rainfall is expected, apply necessary irrigation to the crop plants.
Ø Apply mulching around the plants to preserve soil moisture.
Ø Since cercospora leaf spot is spreading rapidly in Beetroot, spray Mancozeb @ 2 gram per litre of water to Control the disease.
Ø To maintain milk yield in milch animals, keep the animals cool by sprinkling water on milch animals during daytime in summer season.
Ø Since no rain fall is expected in the coming week, maintain optimum moisture content in carrot field to prevent splitting disorder in carrot.
Ø Since no rainfall is expected for next five days, in coffee, irrigation with sprinkler during March - April increases blossoming and higher yields.

Puducherry

Weather based Agro-Advisories
Ø To control rice stem borer spray CartapHydrochloride 50 % SP @ 1000g/ha or Phosphamidon 40% SL 1250 ml/ha.
Ø To control semiloopers in black gram spray Monocrotophos @ 500 ml /ha.
Ø To control shoot and fruit borer in Brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha.

Karaikal

Weather based Agro-Advisories
Ø To control thrips and other sucking pest in cotton spray Imidacloprid 200 SL @ 100 ml/ha (or) Dimethoate 30 EC @ 500 ml/ha or Azadirachtin 0.03% EC @ 500 ml/ha
Ø To control powdery mildew in rice fallow pulses, spray 5% Neem Seed Kernel Extract or Mancozeb @ 400 g/ac or Wettable Sulphur @ 1 kg/ac during morning or evening hours.
Ø Two percent of DAP spray (Dissolve 4.5 kg of DAP in 10 litres of water previous day night and the supernatant liquid shall be mixed with 190 litres of water) may be done at the time of flowering and another dose fifteen days after the first spray for rice fallow pulses.

KANYAKUMARI

AGRO ADVISORIES

1. Irrigation should be given to the newly planted fruit trees and other horticultural crops.
2. Pepper: Wherever irrigation facilities are available, start irrigating the
plants once in a week by hose irrigation or daily by drip irrigation.

3. Coconut: Apply coir pith up to a height of 10 cm in the basin of coconut trees.

4. Sufficient irrigation should be given to vegetable crops.

5. Pineapple: Mulching have to be done to pineapple for moisture conservation.

**SMS Advisory**

Irrigation should be given to the newly planted fruit trees and other horticultural crops.

**Tiruppur, Erode, Coimbatore**

**Agro Advisory**

✓ Considering the evening low relative humidity, high maximum and minimum temperature, and the wind speed of 10 kmph, development of local small suction wind may occur. Hence prop the banana of more than five months old against lodging.

✓ To harvest the summer rain and to facilitate the crop residue recycling, plough the harvested and fallow lands against the slopes with inverting type plough.

✓ All irrigated standing crops including coconut, considering heavy wind speed and anticipated dry weather, irrigation may be given based on available soil moisture.

✓ Milch animals and buffaloes may be given with water spray on their bodies. Enough clean and cool drinking water may be given for their voluntary drinking.

✓ To reduce the impact of hot and dry weather, poultry’s sheds may be surrounded with moist gunny bags.

**SMS advisory**
✓ Local small suction wind may occur due to low relative humidity, increasing temperature & wind speed of 10 kmph, Prop banana of more than 5 months old against lodging.

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