



## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 033 /2017**

For the period 0830 IST, 25<sup>th</sup> April 2017 to  
0830 IST, 28<sup>th</sup> April 2017

**Issued on Tuesday, 25<sup>th</sup> April 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

Sl. No	Agro climatic zone	Districts	Agro met field Unit (AMFU) location
1	Northeastern zone	Kanchipuram, Tiruvallur, Cuddalore Tiruvannamalai, Chennai, Villupuram , Vellore	Chennai
2	Northwestern zone	Dharmapuri, Krishnagiri, Salem and Namakkal	Namakkal
3	Western Zone	Erode, Tiuppur and Coimbatore,	Coimbatore,
4	Cauvery Delta zone	Thanjavur, Nagapattinam, Thiruvarur, Karur, Perambalur, Ariyalur and Tiruchirapalli.	Adudurai
5	Southern zone	Virudhunagar, Tirunelveli and Toothugudi	Kovilpatti
6	South Zone	Pudukottai, Madurai, Dindigul, Theni, Ramanathapuram and Sivagangai	Kannivadi
7	High rainfall zone	Kanyakumari	Pechiparai
8	Hilly zone	Nilgiris	Ooty
9	Coastal Zone	Karaikal and Pondicherry	Karaikal



**Past Weather Summary for the period 21.04.17 to 24.04.17 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 33°C – 44°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 21°C – 24°C during the period.

Minimum temperature of range 22°C - 30°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 12°C - 15°C during the same period.

**Spatial distribution of Rainfall**

<b>Spatial distribution of Rainfall</b>	<b>Date</b>	<b>Area</b>
<b>Widespread (Most places)</b>	--	--
<b>Fairly widespread (Many places)</b>	--	--
<b>Scattered (Few Places)</b>	--	--
<b>Isolated (Isolated Places)</b>	21.04.17,22.04.17&23.04.17 24.04.17	Interior Tamil Nadu Interior & South Coastal Tamilnadu
<b>Dry</b>	21.04.17, 22.04.17 & 23.04.17 24.04.17	Coastal Tamilnadu North Coastal Tamilnadu

**Chief Amounts of Rainfall (in cms):-**

**21.04.17:** Coonoor pto (Nilgiris Dist) 5, Coonoor (Nilgiris Di st) 4, Naduvattam (Nilgiris Dist), Dharamapuri (Dharmapuri Dist), Denkanikottai (Krishnagiri Dist), Aravakurichi (Karur Dist) 3 each, Kothagiri (Nilgiris Dist), Bhavani (Erode Dist), Avinasi (Tiruppur Dist), Penucondapuram (Krishnagiri

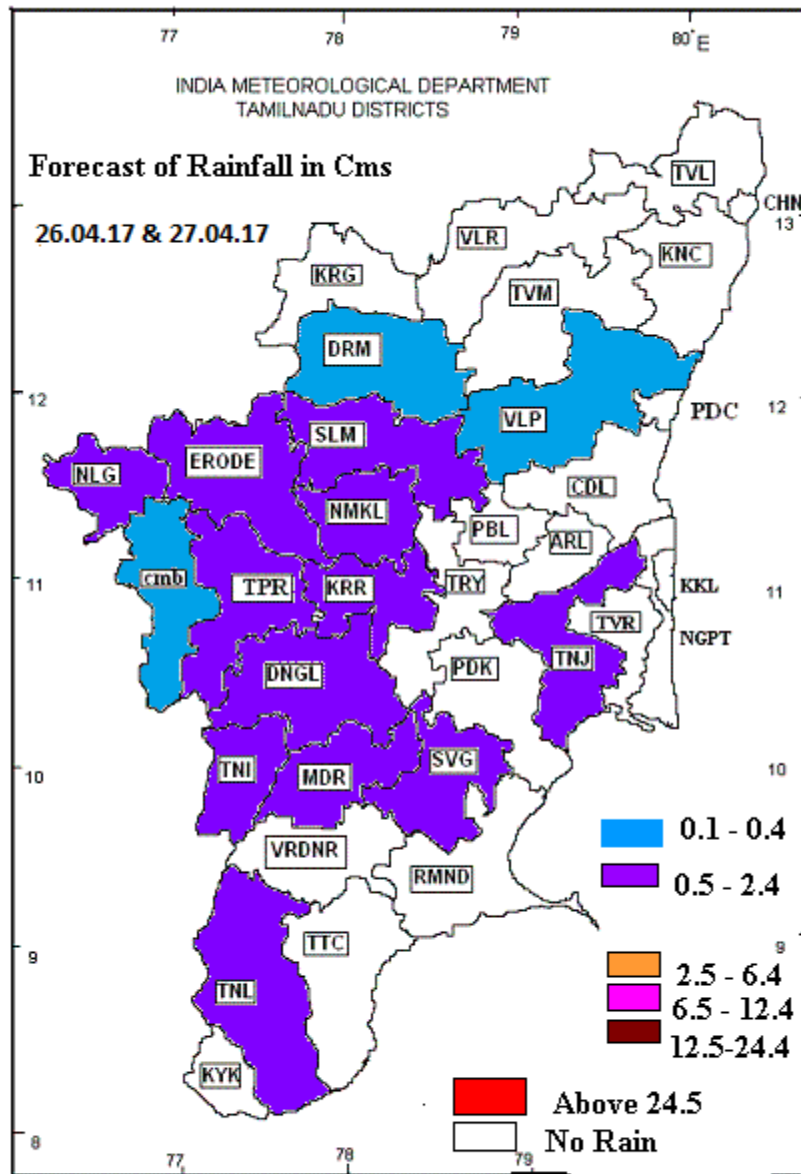
Dist), Kumarapalayam (Namakkal Dist), Mulanur (Tiruppur Dist), Chinnakalar (Coimbatore Dist), Valparai taluk office (Coimbatore Dist) 2 each, Annur (Coimbatore Dist), Hosur (Krishnagiri Dist), Kamatchipuram (Dindigul Dist), Palani (Dindigul Dist), Udumalpet (Tiruppur Dist), Chengam (Tiruvannamalai Dist), Valparai pto (Coimbatore Dist), K bridge (Nilgiris Dist), Bhavanisagar (Erode Dist) 1 each.

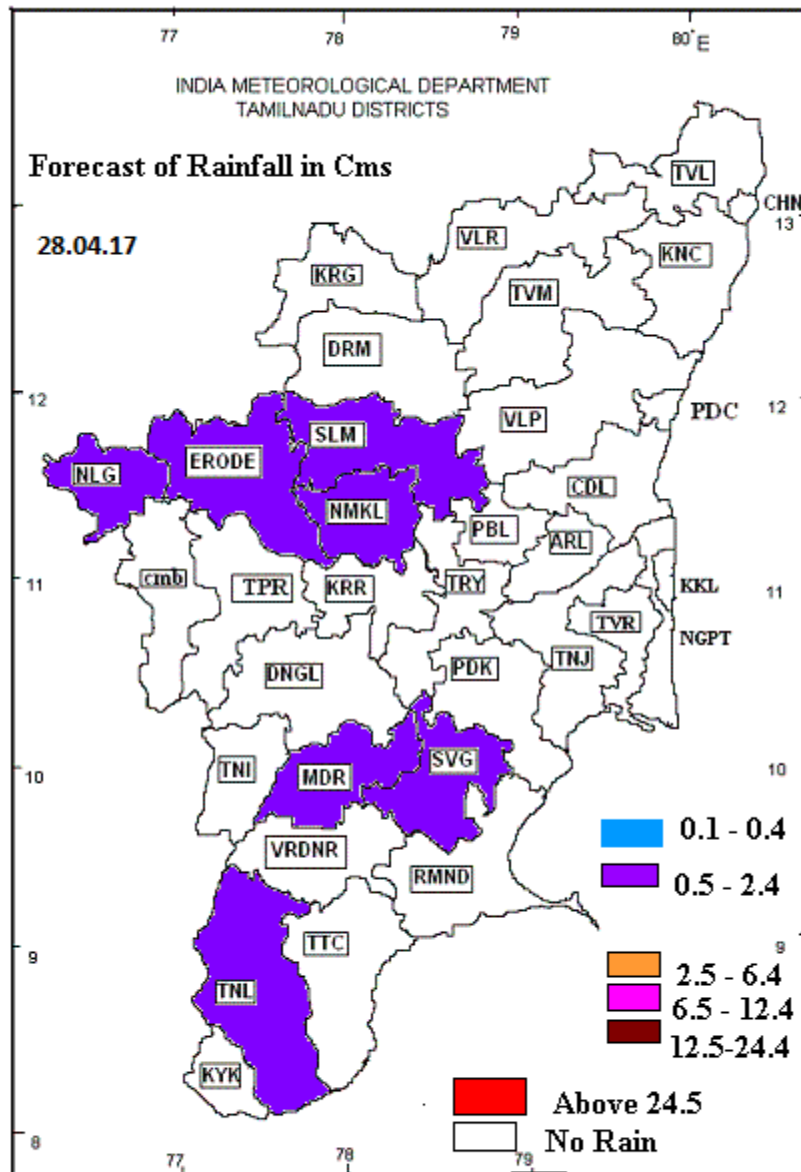
**22.04.17** : Harur (Dharmapuri Dist) 5, Dharmapuri pto (Dharmapuri Dist), Natham (Dindigul Dist) 4 each, Hogenekal (Dharmapuri Dist) , Thali (Krishnagiri Dist) 3 each, Pennagaram (Dharmapuri Dist), Sathyamangalam (Erode Dist), Denkanikottai (Krishnagiri Dist), Dharmapuri (Dharmapuri Dist), Bhavanisagar (Erode Dist) 1 each.

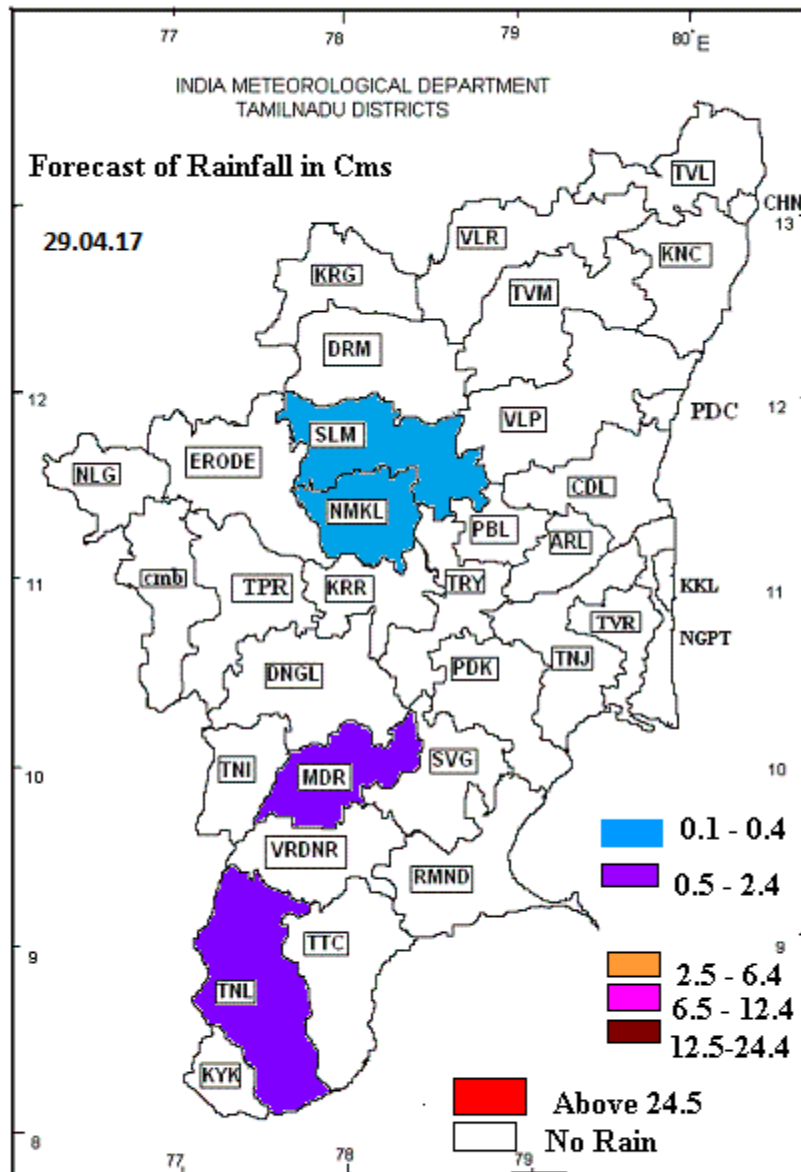
**23.04.17** : Gobichettipalayam (Erode Dist) and Bhavani (Erode Dist) 5 each, Yercaud (Salem Dist) 4, Kumarapalayam (Namakkal Dist), Penucondapuram (Krishnagiri Dist), Erode (Erode Dist) 3 each, Perundurai (Erode Dist), Peraiyur (Madurai Dist), Pochampalli (Krishnagiri Dist),Uthangarai (Krishnagiri Dist), Sankaridurg (Salem Dist) 2 each, Karur (Karur Dist), Sathyamangalam (Erode Dist), Manapparai (Trichy Dist), Sholavandan (Madurai Dist), Barur (Krishnagiri Dist) 1 each.

**24.04.17** : Chettikulam (Perambalur Dist) 3, Padalur (Perambalur Dist), Tirupuvanam (Sivaganga Dist) and Perambalur (Perambalur Dist) 2 each, Nilakottai (Dindigul Dist), Watrap (Virudhunagar Dist), Tirupathur (Sivaganga Dist), Papanasam (Tirunelveli Dist) and Usilampatti (Madurai Dist) 1 each.

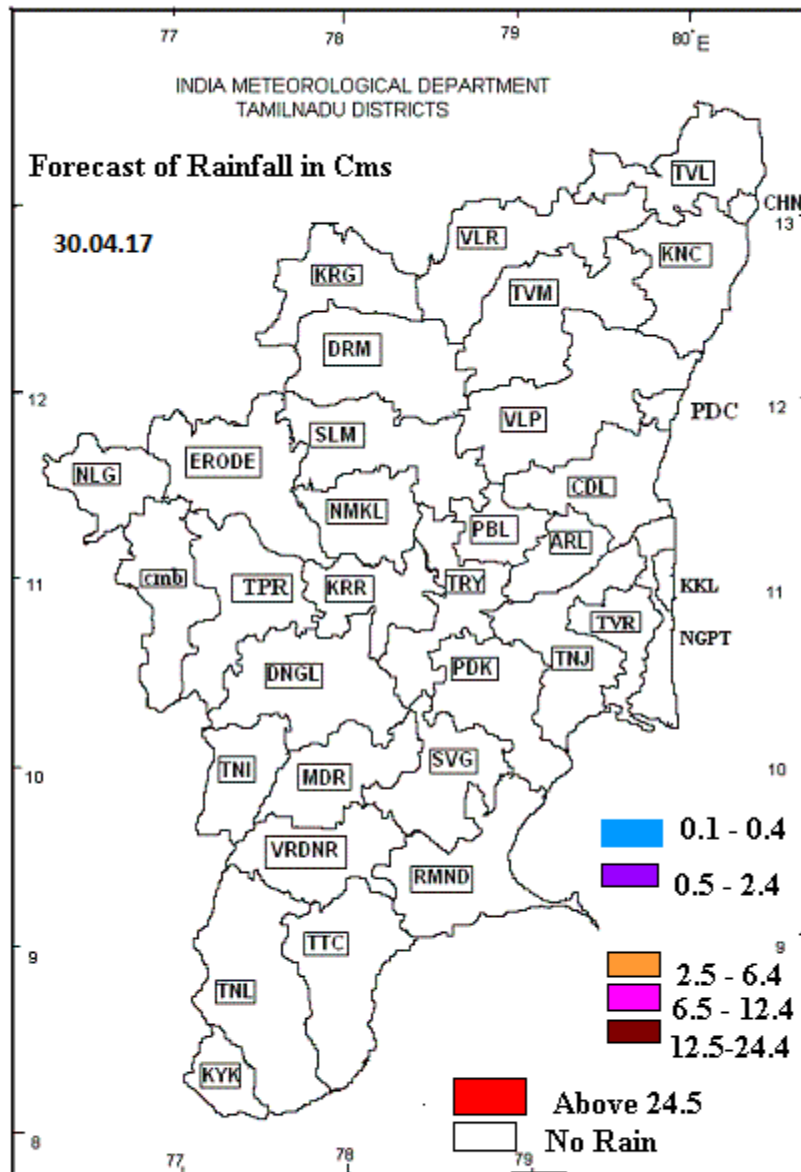
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 25.04.2017  
VALID FOR THE NEXT 5 DAYS**











## Districtwise Agromet Advisories

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

#### Livestock:

Coconut leaves or paddy straws may be spread over the roof of the animal shed and spray water to avoid heat stress to the animals.

Feeders should be raised in poultry shed between 10 am to 5 pm; provide mineral mixture and B-complex vitamins in drinking water to avoid heat stroke.

During hot part of the day dairy cows should be showered with water to reduce heat stress and to sustain milk production.

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.

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.

Apply Butox solution (2-3ml in one litter water) externally to remove ecto-parasites in sheep & goats.

#### Agriculture

Imp. Crops: Rice, Sugarcane and Groundnut

To control shoot and fruit borer in Brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha

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.

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.

### **Thoothukudi, Virudhunagar & Thirunelveli**

Crop/ Farming system	Stage / Activities	Advisories
Tirunelveli, Thoothukudi and Virudhunagar districts		
Brinjal	Fruiting stage	The prevailing weather is conducive for the incidence of <b>shoot and fruit borer</b> . Remove the affected fruits and destroy. For controlling this pest spray chlorpyrifos 20% EC 1 ml/ lit or quinolphos 25% EC 1.5 ml/ lit at 15 days interval.
Tomato	Fruiting stage	In tomato apply nutrients through fertigation. Apply 12- 61- 0 fertilizer 1.14 kg/ ha, 13- 0- 45 fertilizer 6.17 kg/ ha and urea 2.8 kg/ ha through irrigation water during each fertigation at an interval of 3 days.

SMS: Tomato- apply nutrients through fertigation- 12- 61- 0 fertilizer 1.14 kg/ ha, 13- 0- 45 fertilizer 6.17 kg/ ha & urea 2.8 kg/ ha at an interval of 3 days.

## **Kanyakumari**

1. Propping should be done to avoid banana bunch damage due to heavy wind. 2. Chrysanthemum and pineapple: Irrigation should be given because of insufficient rainfall. 3. Pepper: If liming was not done in the past two years, lime@500 gram per vine may be applied after getting first summer rain. 4. Basin can be formed for all tree crops and coir compost should be applied to conserve moisture.

## **Karaikal**

To control wilt and root rot disease in vegetables, drench the soil with Carbendazim @ 1 g per litre or Carbendazim + Iprodione @ 1 g per litre or Trifloxystrobin + Tebuconazole @ 0.75 g per litre at the base of the diseased plant as well as around the healthy plant so as to wet 10-15cm depth of soil.

To control shoot and fruit borer in Brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha.

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.

## **Puducherry**

To control wilt and root rot disease in vegetables, drench the soil with Carbendazim @ 1 g per litre or Carbendazim + Iprodione @ 1 g per litre or Trifloxystrobin + Tebuconazole @ 0.75 g per litre at the base of the diseased plant as well as around the healthy plant so as to wet 10-15cm depth of soil.

To control rice stem borer spray *CartapHydrochloride* 50 % SP @ 1000g/ha or *Phosphamidon* 40% SL 1250 ml/ha.

To control shoot and fruit borer in Brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha.

## **Dindigul**

Imp. Crops: Mango and Guava

- Due to prevailing weather condition there is incense of Fruit fly in Mango. Maggot bore into semi-ripen fruits with decayed spots and dropping of fruits. Oozing of fluid, Brownish rotten patches on fruits. Collect fallen infested fruits and dispose them by dumping in a pit. Provide summer ploughing to expose the pupa. Bait spray - combing any one of the insecticides and molasses or jaggery 10 g/l, malathion 50EC 2 ml/l or dimethoate 30 EC 1 ml/l,
- Prevailing weather condition the incense of fruit borer in Guava. The borer caterpillar bores into young fruits, Feeds on internal contents of fruit, Dry up and fall off fruits before ripening. Collect and destroy damaged fruits. Use light trap @ 1/ ha to monitor the activity of adults, foliar spray malathion 50 EC 0.1% two times, one at flower formation and next at fruit set period.
- Considering the temperature of high in order, based on the soil moisture, irrigation may be given to vegetables crops.
- Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

## **Madurai**

Imp. Crops: Chilly and Mango

- Due to prevailing weather condition, the occurrence of Yellow Muranai mite in Chilly. To control foliar spray of Sulphur WP 6 gm or Ethion 50% EC 4 ml /lit of water is recommended.
- Due to prevailing weather condition there are incense of Fruit fly in Mango. Maggot bore into semi-ripen fruits with decayed spots and dropping of fruits. Oozing of fluid, Brownish rotten patches on fruits. Collect fallen infested fruits and dispose them by dumping in a pit. Provide summer ploughing to expose the pupa. Bait spray - combing any one of the insecticides and molasses or jaggery 10 g/l, malathion 50EC 2 ml/l or dimethoate 30 EC 1 ml/l,
- Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

#### **Pudukottai**

Imp. Crops: Cashew and Chilly

- Prevailing weather condition Stem borer incense in cashew .To control this collect and destruct the affected shoots. Swabbing the bark of exposed roots and shoots with Carbaryl 50 WP 2 g/lit is recommended.
- Due to prevailing weather condition, the occurrence of Yellow Muranai mite in Chilly. To control foliar spray of Sulphur WP 6 gm or Ethion 50% EC 4 ml /lit of water is recommended.
- Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

#### **Ramanathapuram**

Imp. Crops: Chilly and Vegetables

- Due to prevailing weather condition, the occurrence of Yellow Muranai mite in Chilly. To control foliar spray of Sulphur WP 6 gm or Ethion 50% EC 4 ml /lit of water is recommended.
- In Chillies, to manage fruit borers, set up pheromone traps @ 5/acre to attract adult moths.
- Considering the temperature of high in order, based on the soil moisture, irrigation may be given to vegetables crops.
- Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

#### **Sivagangai**

Imp. Crops:Cashew, Mango

- Prevailing weather condition Stem borer incense in cashew .To control this collect and destruct the affected shoots. Swabbing the bark of exposed roots and shoots with Carbaryl 50 WP 2 g/lit is recommended.
- Due to prevailing weather condition there are incense of Fruit fly in Mango. Maggot bore into semi-ripen fruits with decayed spots and dropping of fruits. Oozing of fluid, Brownish rotten patches on fruits. Collect fallen infested fruits and dispose them by dumping in a pit. Provide summer ploughing to expose the pupa. Bait spray - combing any one of the insecticides and molasses or jaggery

10 g/l, malathion 50EC 2 ml/l or dimethoate 30 EC 1 ml/l,

• Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

### **Theni**

Imp. Crops: Mango and Vegetables

• Due to prevailing weather condition there are incense of Fruit fly in Mango. Maggot bore into semi-ripen fruits with decayed spots and dropping of fruits.

Oozing of fluid, Brownish rotten patches on fruits. Collect fallen infested fruits and dispose them by dumping in a pit. Provide summer ploughing to expose the pupa. Bait spray - combing any one of the insecticides and molasses or jaggery 10 g/l, malathion 50EC 2 ml/l or dimethoate 30 EC 1 ml/l,

• Due to prevailing weather condition, the occurrence of Yellow Muranai mite in Chilly. To control foliar spray of Sulphur WP 6 gm or Ethion 50% EC 4 ml /lit of water is recommended.

• Considering the temperature of high in order, based on the soil moisture, irrigation may be given to vegetables crops.

• Since both maximum and minimum temperature is high enough, animal may feed with drinking water @ 80 – 100 liters per day per animal in four splits.

### **Ariyalur, Karur & Perambalur**

Crop: Rice and Irrigated blackgram

Ø Leaf mite incidence is being noticed in the summer paddy nursery due to prevailing hot weather condition. To manage this, spray Dicofol @ 600 ml / acre or wettable sulphur @ 400 g / acre with 200 litres of water.

Ø Occurrence of thrips is being noticed in the summer paddy nursery due to prevailing hot weather condition. To control this, spray chloripyriphos 2.5 ml / lit of water.

Ø In irrigated blackgram, occurrence of white flies is being noticed due to the prevailing hot weather. To control this spray azadirachtin 0.03% (3 ml / litre of water) along with sticking agent in the morning or evening using hand sprayer, If damage is more spray imidacloprid 200 SL @ 40ml / acre with 200 litres of water.

Ø In irrigated blackgram, application of pre-emergence herbicide pendimethalin @ 1.3 litre / acre is to be done on 3 DAS.

Livestocks

Ø Poultry should be vaccinated against Ranikhet disease.

Ø Sprinkling of water on mulching cows in every two hours between 10 a.m. to 5 p.m. to sustain the milk production.

## Nagapattinam , Thanjavur,Thiruvarur & Thriuchirapalli

Crop: Rice, Irrigated blackgram and Rice fallow cotton

Stage: Rice fallow cotton: Vegetative stage

Ø Leaf mite incidence is being noticed in the summer paddy nursery due to prevailing hot weather condition. To manage this, spray Dicofol @ 600 ml / acre or wettable sulphur @ 400 g / acre with 200 litres of water.

Ø Occurrence of thrips is being noticed in the summer paddy nursery due to prevailing hot weather condition. To control this, spray chloripyriphos 2.5 ml / lit of water.

Ø For rice fallow cotton, one hand weeding and earthing up are to be done on 45 DAS.

Ø In rice fallow cotton and irrigated blackgram, occurrence of aphid, thrips, mite, hoppers and white flies are being noticed due to the prevailing hot weather. To control this spray azadirachtin 0.03% (3 ml / litre of water) along with sticking agent in the morning or evening using hand sprayer, If damage is more spray imidacloprid 200 SL @ 40ml / acre with 200 litres of water.

Ø In irrigated blackgram, application of pre-emergence herbicide pendimethalin @ 1.3 litre / acre is to be done on 3 DAS.

Livestocks

Ø Poultry should be vaccinated against Ranikhet disease.

Ø Sprinkling of water on mulching cows in every two hours between 10 a.m. to 5 p.m. to sustain the milk production.

## Nilgiris

Light to moderate rainfall is expected in the district for next three days. Apply mulching around the plants to preserve soil moisture. Using received rainfall, Chow chow can be planted in 45cm pits, 6 ft x 8 ft spacing. Plant 3 sprouted fruits per pit after filling with 10 kg compost, 250 g urea, 500 g super phosphate and 500 g potash. Due to high humidity and high day time temperature conditions prevailing, anthracnose disease is spreading in Peas. To control, spray fungicide Carbendazim @ 2 g per litre of water. Due to high day time temperature prevailing, red spider mite infestation is fast spreading in Tea plantation, Spray Neem oil (1% Azadirachtin) or Propargite 57% EC / Profenofos 50% EC / Dicofol 18.5% EC @ 2 ml / lr of water in infested areas. Due to high day time temperatures, scale insect infestation is prevalent in rose. To control, rub off the scales with cotton soaked in kerosene or diesel. Spray malathion 50 EC @ 2 ml/lit of water. Using expected rainfall, in potato crop, apply 50 kg Urea, 266 kg super phosphate and 40 kgs of potash at the time of sowing as basal and 30 days after sowing as top dressing.

## Coimbatore

Blocks	Sugar cane	Rice	Turmeric	Maize	Cotton
Thondamuthur	P	H & P	H	M	BP

Karamadai	P	H & P	H	M	BP
Sulur	P	H & P	H	M	BP
Sultanpet	P	H & P	H	M	BP
Pollachi	P	H & P	H	M	BP
P.N Palayam	P	H & P	H	M	BP
Kinathukadavu	P	H & P	H	M	BP
Annur	P	H & P	H	M	BP
Madukarai	P	H & P	H	M	BP
Annaimalai	P	H & P	H	M	BP

S–Sowing; V-Vegetative; M–Milking; BP–Boll picking; P – Planting H- Harvest

### Agro Advisory

Utilizing the receipt of anticipated summer rainfall during next two days, summer ploughing may be done in dryland and irrigated fallow land.

Squally wind with thunder rain may cause lodging in banana and sugarcane of above 5 months. Propping in sugarcane and stacking in banana crop is advised.

Prevailing weather is favourable for the mite attack in vegetables. Hence, monitor the crop and if needed spray Dicofol @ 2.5 ml per liter of water

By utilizing the summer rainfall, sowing of irrigated sorghum may be taken in the ploughed area.

### SMS advisory

By utilizing the summer rainfall, sowing of irrigated sorghum may be taken in the ploughed area.

### Erode

Taluks	Sugar cane	Rice	Turmeric	Irrigated Maize	Cotton	Sugar cane
Ammamet	LP	H & P	H	F	BP	LP
Bhavani	LP	H & P	H	F	BP	LP
Erode	LP	H & P	H	F	BP	LP
Perundurai	LP	H & P	H	F	BP	LP
Sathyamangalam	LP	H & P	H	F	BP	LP
Nambiyur	LP	H & P	H	F	BP	LP
Gobichettipalayam	LP	H & P	H	F	BP	LP

LP-Land preparation; S–Sowing; V-Vegetative; F–Flowering; BP–Boll picking; P – Planting H- Harvest

### Agro Advisory

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By utilizing the summer rainfall, sowing of irrigated sorghum may be taken in the ploughed area.  
SMS advisory

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### Tiruppur

Blocks	Sugar cane	Rice	Turmeric	Irrigated Maize	Cotton	Sugar cane
Avinashi	LP	H & P	H	F	BP	LP
Kankayam	LP	H & P	H	F	BP	LP
Madathukulam	LP	H & P	H	F	BP	LP
Gudimangalam	LP	H & P	H	F	BP	LP
Palladam	LP	H & P	H	F	BP	LP
Dharapuram	LP	H & P	H	F	BP	LP
Udumalpet	LP	H & P	H	F	BP	LP

LP-Land preparation; S-Sowing; V-Vegetative; F-Flowering; BP-Boll picking; P – Planting H- Harvest

#### Agro Advisory

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Prevailing weather is favourable for the mite attack in vegetables. Hence, monitor the crop and if needed spray Dicofol @ 2.5 ml per liter of water

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SMS advisory

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## **Salem, Namakkal, Dharmapuri & Krishnagiri**

For next three days, the sky will be intermittently cloudy with chance of summer showers at isolated places. Maximum and minimum temperature will be 39.0°C (102.2°F) and 26.0°C (78.8°F) respectively. Wind speed will be around 4 km/hour, mostly from south direction. Relative humidity will be in the range of 35 - 70%.

For next three days temperature will remain high. Summer showers are expected at isolated places. Cloudy sky with elevated wind speed during the evening hours will bring some relief from heat waves. Avoid feeding during day time and encourage feeding during evening/night hours in layer chicken and add vegetable oil in the feed to meet out energy requirement of birds and to maintain egg weight and egg size.

### **Special Agroadvisory from Krishi Vigyan Kendra, Namakkal:**

Foliar spray of 1% ferrous sulfate and 0.5% zinc sulfate solutions should be done at around 30 and 60 days after transplanting tapioca.

