



## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 037 /2017**

For the period 0830 IST, 09<sup>th</sup> May 2017 to  
0830 IST, 12<sup>th</sup> May 2017

**Issued on Tuesday, 09<sup>th</sup> May 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 05.05.17 to 08.05.17 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 32°C – 41°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 20°C – 25°C during the period.

Minimum temperature of range 21°C - 30°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 11°C - 14°C during the same period.

**Spatial distribution of Rainfall**

Spatial distribution of Rainfall	Date	Area
Widespread (Most places)	--	--
Fairly widespread (Many places)	--	--
Scattered (Few Places)	08.05.17	Tamil Nadu
Isolated (Isolated Places)	05.05.17 , 06.05.17 & 07.05.17	Tamil Nadu
Dry	05.05.17,06.05.17,07.05.17 & 08.05.17	Puducherry

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

**05.05.17:** Nil

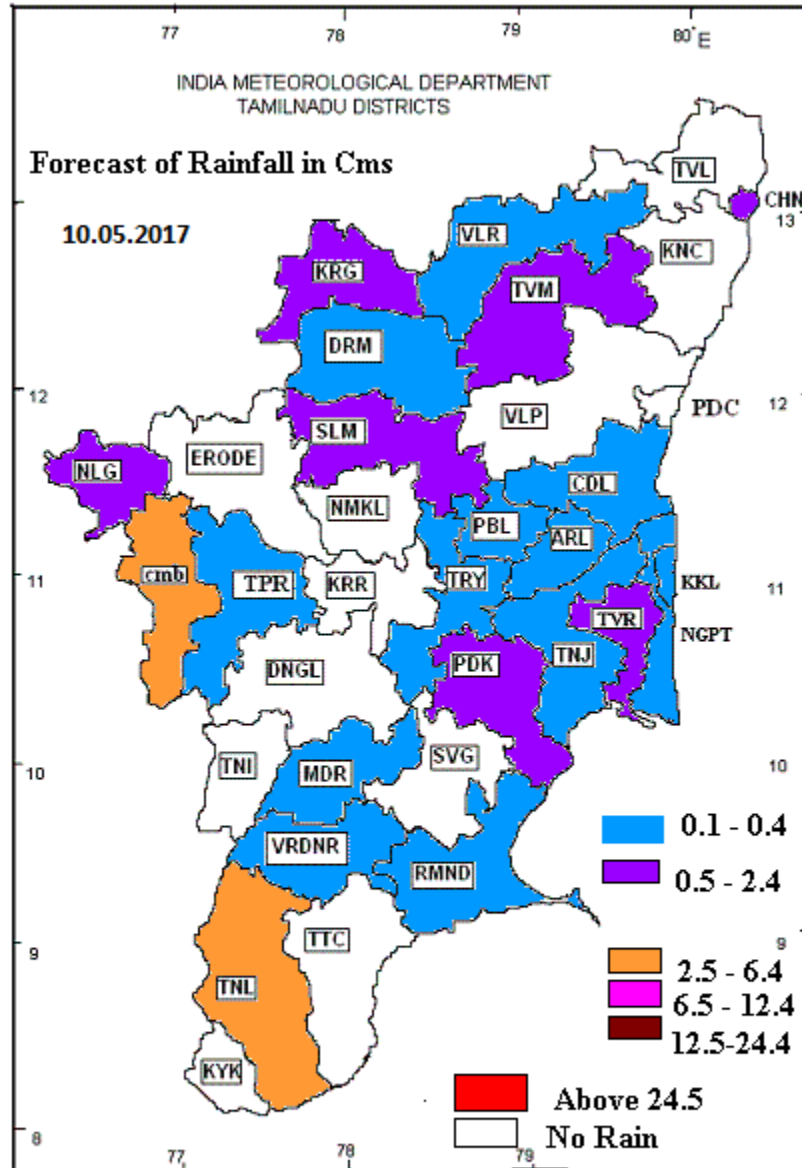
**06.05.17 :** Valparai PTO (Coimbatore Dist) 3, Kodaikanal (Dindigul Dist), Pechiparai (Kanyakumari Dist) 1 each.

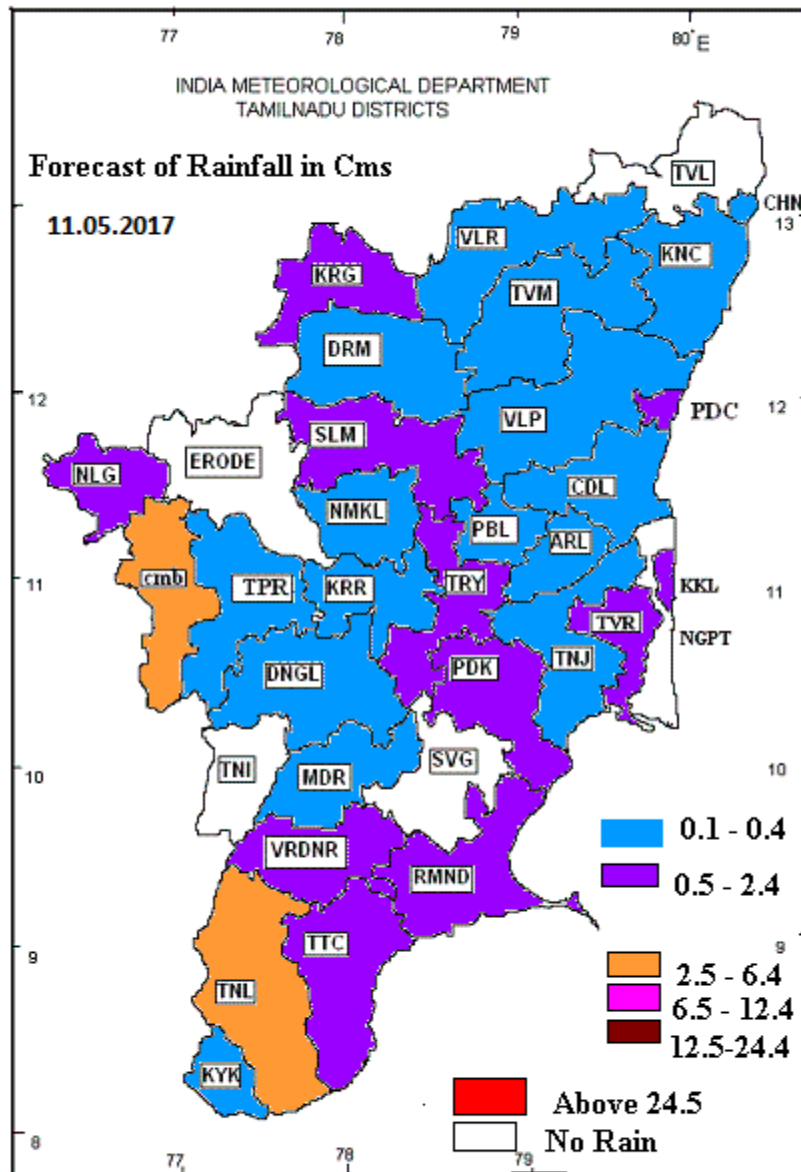
**07.05.17 :** Kodaikanal (Dindigul Dist) 4, Bhavanisagar (Erode Dist) 3, Pechiparai (Kanyakumari Dist), Thenkasi (Tirunelveli Dist) 2 each, Tiruchengode (Namakkal Dist), Gobichettipalayam (Erode Dist), Bhavani (Erode Dist), Sathyamangalam (Erode Dist), Rameswaram (Ramanathapuram Dist), Coonoor (Nilgiris Dist), Coonoor pto (Nilgiris Dist), Kothagiri (Nilgiris Dist), Shencottah (Tirunelveli Dist), Kumarapalayam (Namakkal Dist) 1 each.

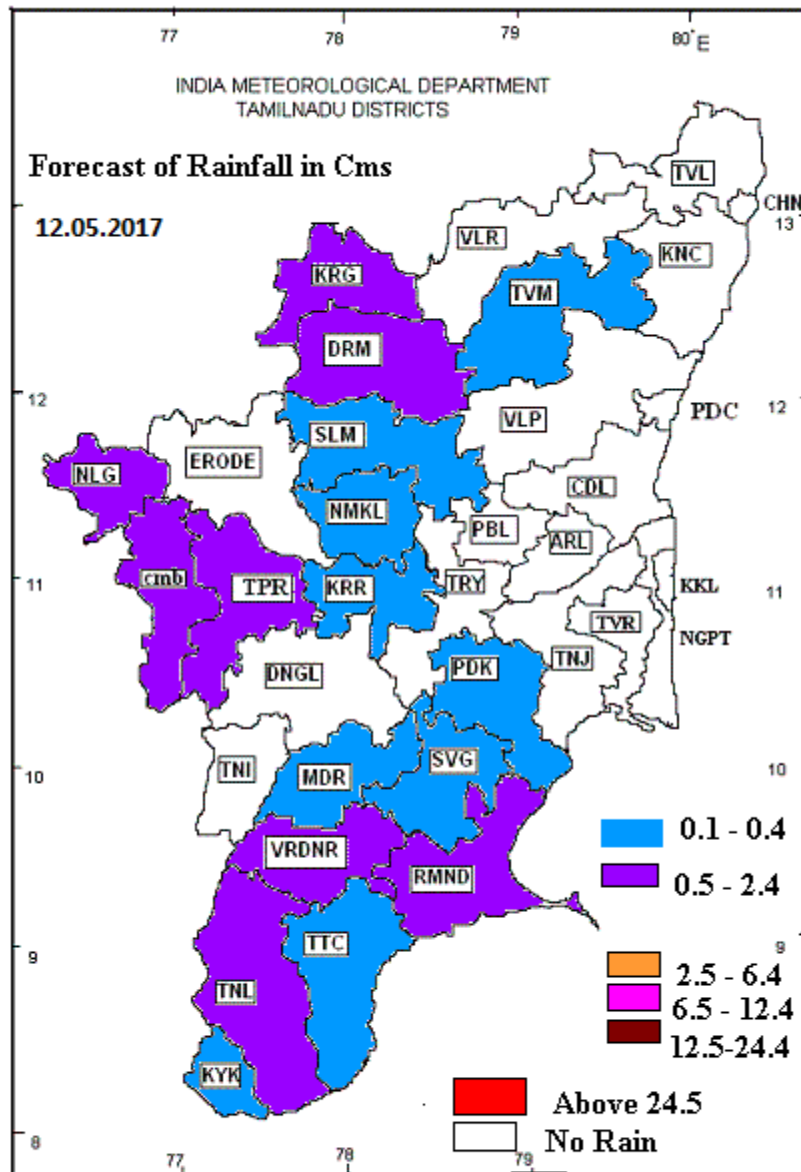
**08.05.17 :** Tirupattur pto (Vellore Dist) 9, Uthangarai (Krishnagiri Dist) 8, Tirupattur (Vellore Dist) 7, Penucondapuram (Krishnagiri Dist), Dharmapuri pto (Dharmapuri Dist), Thuckalay (Kanyakumari Dist), Eraniel (Kanyakumari Dist), Virinjipuram AWS (Vellore Dist) 6 each, Harur (Dharmapuri Dist), Pollachi (Coimbatore Dist), Hosur (Krishnagiri Dist), Pallipattu (Tiruvallur Dist) 5 each, Yercaud (Salem Dist), Hogenekal (Dharmapuri Dist), Chengam (Tiruvannamalai Dist), Sathanur Dam (Tiruvannamalai Dist) 4 each,

Salem (Salem Dist), Karur (Karur Dist), Thali (Krishnagiri Dist), Melalathur (Vellore Dist), Colachel (Kanyakumari Dist), Bhoothapandy (Kanyakumari Dist), Srivaikuntam (Toothukudi Dist), Ayikudi (Tirunelveli Dist), R.k.pet (Tiruvallur Dist) 3 each, Pechiparai (Kanyakumari Dist), Attur (Salem Dist), Denkanikottai (Krishnagiri Dist), Omalur (Salem Dist), Kuzhithurai (Kanyakumari Dist), Mettur (Salem Dist), Dharamapuri (Dharmapuri Dist), Thammampatty (Salem Dist), Pennagaram (Dharmapuri Dist), Bhavanisagar (Erode Dist), Manimutharu (Tirunelveli Dist), Erode (Erode Dist), Rameswaram (Ramanathapuram Dist), Kaveripakkam (Vellore Dist), Mulanur (Tiruppur Dist), Coonoor pto (Nilgiris Dist) 2 each, Gudiyatham (Vellore Dist), Kodumudi (Erode Dist), Pochampalli (Krishnagiri Dist), Coonoor (Nilgiris Dist), Barur (Krishnagiri Dist), Vellore (Vellore Dist), Palani (Dindigul Dist), Alangayam (Vellore Dist), Ambur (Vellore Dist), Palacode (Dharmapuri Dist), Periyar (Theni Dist), Rayakottah (Krishnagiri Dist), Shencottah (Tirunelveli Dist), Sathyamangalam (Erode Dist), Mayanur (Karur Dist), Sankarankoil (Tirunelveli Dist), Cheranmahadevi (Tirunelveli Dist), Krishnagiri (Krishnagiri Dist), Thalavadi (Erode Dist), Ketti (Nilgiris Dist), Thuraiyur (Trichy Dist) 1 each.

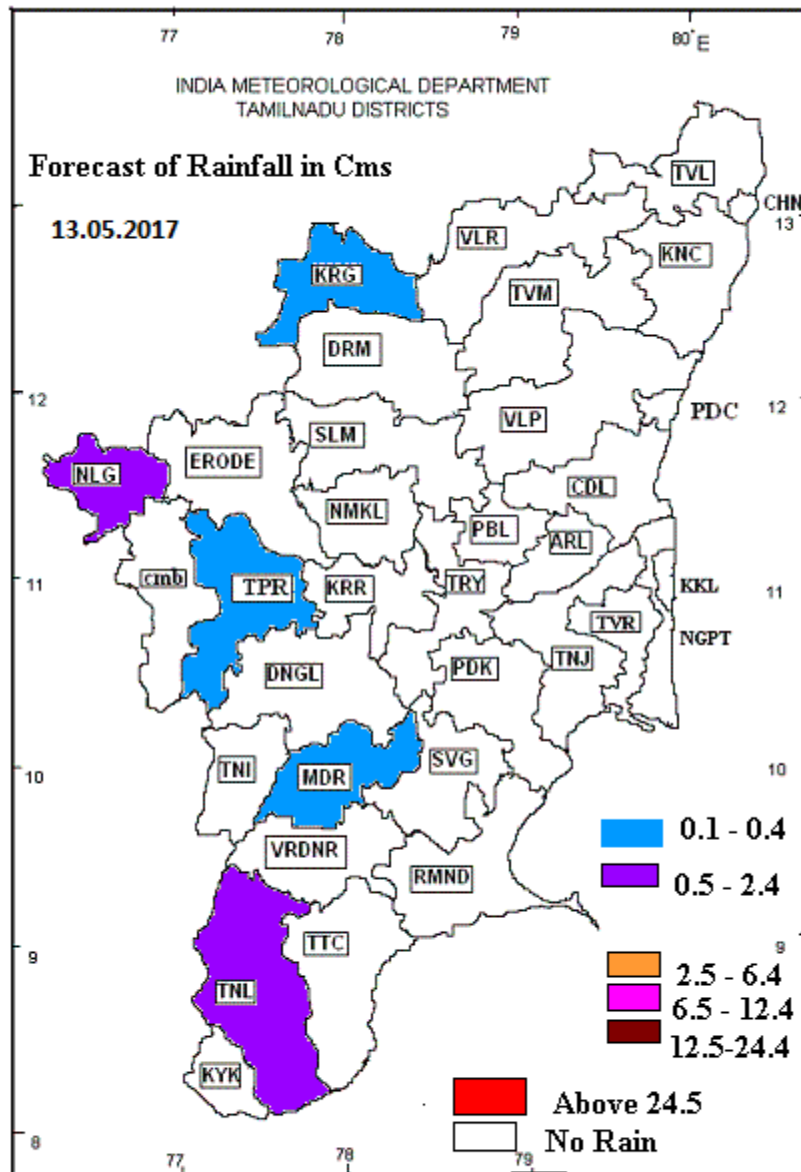
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 09.05.2017  
VALID FOR THE NEXT 5 DAYS**

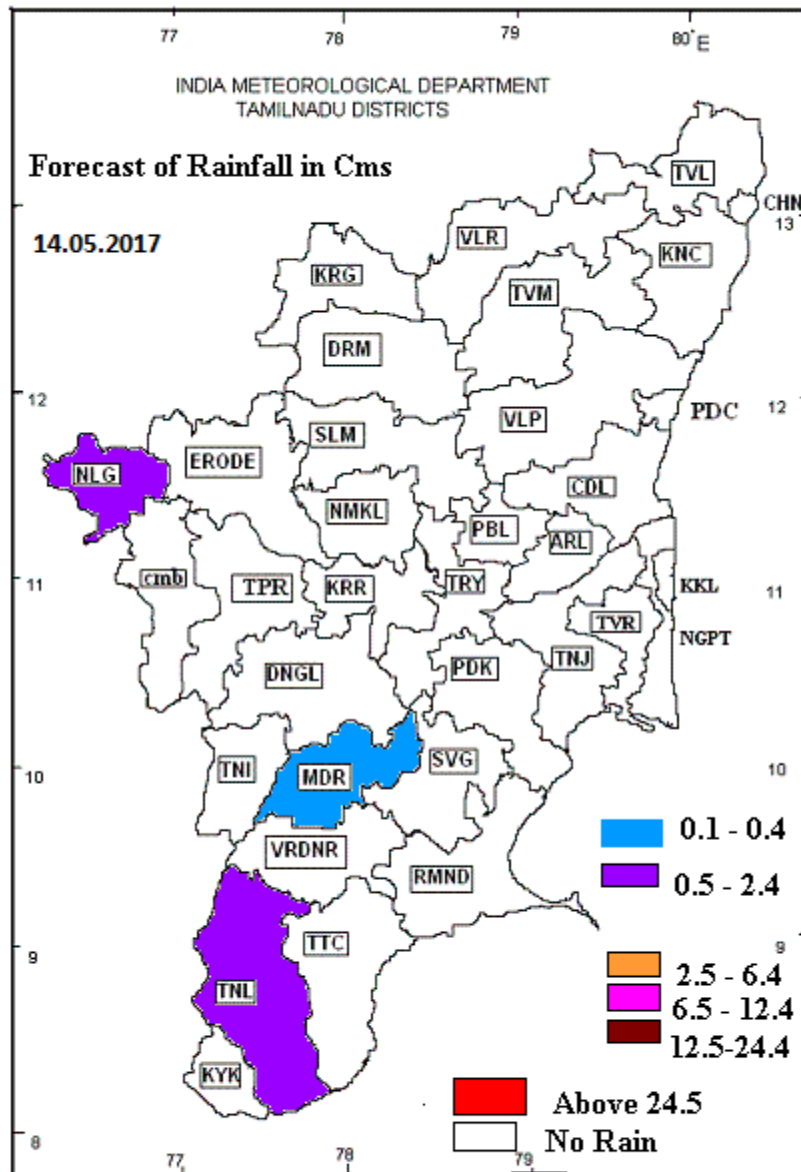












## Districtwise Agromet Advisories

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

#### **Livestock:**

1. For every 100 birds add 10-20 ml of B-complex or liver tonic to the drinking water to reduce heat stress.
2. 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.
3. Feeders should be raised in poultry shed between 10 am to 5 pm to avoid heat stroke.
4. During hot part of the day dairy cows should be showered with water to reduce heat stress and to sustain milk production.
5. 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.
6. 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.
7. Apply Butox solution (2-3ml in one litter water) externally to remove ecto-parasites in sheep & goats.

#### **Imp. Crops: Rice, Sugarcane and Groundnut**

1. To control shoot and fruit borer in Brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha
2. The root zone of horticulture crops are covered with coir pith to conserve moisture.
3. 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**

Crop/ Farming system	Stage / Activities	Advisories
Sorghum (Irrigated)	Vegetative stage	In the expected weather condition shoot fly incidence is noticed in sorghum. The symptoms are withering and drying of central shoot (dead heart) and red mining in the midrib. For controlling this pest spray any one of the following insecticide, Methyl demeton 25 EC 500 ml/ha Dimethoate 30 EC 500 ml/ha
Soil fertility management	Crop residue incorporation	Incorporate the residues of harvested crops like cotton, chilli and other crops by using rotoslasher when soil moisture is optimum. Addition of crop residues will help to improve organic matter content of the soil and conserve rain water.

Banana and Sugarcane	Grand growth stage	As strong winds are expected in the coming days remove the dry cane leaves and do double line propping. This will prevent lodging due to heavy winds.
Jasmine	Flowering stage	In the prevailing weather condition, budworm incidence is may observed in Jasmine. To control spray Thiachloprid 240 SC @ 1 ml/ l of water.

SMS:

Rain: 11& 12.5.17: 5& 4 mm. Sorghum- shoot fly- To control spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha

### Tirunelveli

Crop/ Farming system	Stage / Activities	Advisories
Sorghum (Irrigated)	Vegetative stage	In the expected weather condition shoot fly incidence is noticed in sorghum. The symptoms are withering and drying of central shoot (dead heart) and red mining in the midrib. For controlling this pest spray any one of the following insecticide, Methyl demeton 25 EC 500 ml/ha Dimethoate 30 EC 500 ml/ha
Jasmine	Flowering stage	In the prevailing weather condition, budworm incidence is may observed in Jasmine. To control spray Thiachloprid 240 SC @ 1 ml/ l of water.
Soil fertility management	Crop residue incorporation	Incorporate the residues of harvested crops like cotton, chilli and other crops by using rotoslasher when soil moisture is optimum. Addition of crop residues will help to improve organic matter content of the soil and conserve rain water.

SMS:

Rain: 10- 14.5.17: 40, 42, 20, 10& 8 mm. Sorghum- shoot fly- To control spray Methyl demeton 25 EC 500 ml/ha or Dimethoate 30 EC 500 ml/ha

### Karaikal

Weather based Agro-Advisories

To control root rot disease in cotton, 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.

Apply *Trichoderma viride* 2.5 kg + *Pseudomonas fluorescense* 2.5 kg + 250 kg well decomposed farm yard manure per hectare as a prophylactic measure for cotton.

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

#### Weather based Agro-Advisories

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

To control brown plant hopper in rice, apply *Neem oil* 3% or *Methyl demeton* 25 EC 1500 ml/ha or *Acephate* 75 % SP 666-1000 g/ha or *Azadirachtin* 0.03% 1000 ml/ha or *Imidacloprid* 17.8 SL 100-125 ml/ha.

### Kanyakumari

#### AGRO ADVISORIES

1. Pepper: After the receipt of few monsoon showers all the vines are to be drenched with 0.2% COC @ 5 to 10 ltrs per vine.
2. Ginger: Provide proper drainage channels to avoid water logging during the rainy season.
3. Cocoa: Weeding and mulching can be done on need basis.
4. Banana: Spray *Propiconazole* 0.5 ml /litre mixed with wetting agent to control the leaf spot disease in banana.
5. Pineapple: Mulching have to be done to pineapple for moisture conservation.

#### SMS Advisory

Pepper: After the receipt of few monsoon showers all the vines are to be drenched with 0.2% COC @ 5 to 10 ltrs per vine.

### Coimbatore

Blocks	Sugar cane	Rice	Turmeric	Millets	Cotton
Thondamuthur	V	M	LP	V	BP
Karamadai	V	M	LP	V	BP
Sulur	V	M	LP	V	BP
Sultanpet	V	M	LP	V	BP
Pollachi	V	M	LP	V	BP
P.N Palayam	V	M	LP	V	BP
Kinathukadavu	V	M	LP	V	BP
Annur	V	M	LP	V	BP
Madukarai	V	M	LP	V	BP
Annaimalai	V	M	LP	V	BP

V-Vegetative; M-Maturity; BP-Boll picking; LP-Land preparation

### Agro Advisory

There is a chance to get summer rainfall around 40 to 50 mm in next 3 days at Coimbatore and Tiruppur district. Hence, summer ploughing may be given to both dryland and irrigated fallow land.

Provide inward ring basin around coconut and fruit tree crops to harvest rainwater.

Rain is expected with increased wind speed, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

Considering the favourable soil temperature, turmeric rhizome may be done after land preparation.

Considering the turmeric requirement 100kg Fe so<sub>4</sub> + 50 kg Znso<sub>4</sub>+ 1 ton of composed coir waste can be applied as basal application before sowing mother rhizomes.

### SMS advisory

Rain is expected with increased wind speed of >10km/hour, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

### Erode

Taluks	Sugar cane	Rice	Turmeric	Millets	Cotton
Ammapet	V	M	LP	V	BP
Bhavani	V	M	LP	V	BP
Erode	V	M	LP	V	BP
Perundurai	V	M	LP	V	BP
Sathyamangalam	V	M	LP	V	BP
Nambiyur	V	M	LP	V	BP
Gobichettipalayam	V	M	LP	V	BP

V-Vegetative; M-Maturity; BP-Boll picking; LP-Land preparation

### Agro Advisory

Provide inward ring basin around coconut and fruit tree crops to harvest rainwater.

Rain is expected with increased wind speed, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

Considering the favourable soil temperature, turmeric rhizome may be done after land preparation.

Considering the turmeric requirement 100kg Fe so<sub>4</sub> + 50 kg Znso<sub>4</sub>+ 1 ton of composed coir waste can be applied as basal application before sowing mother rhizomes.

### SMS advisory

Rain is expected with increased wind speed of >10km/hour, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

## Tiruppur

Blocks	Sugar cane	Rice	Turmeric	Irrigated Maize	Cotton
Avinashi	V	M	LP	V	BP
Kankayam	V	M	LP	V	BP
Madathukulam	V	M	LP	V	BP
Gudimangalam	V	M	LP	V	BP
Palladam	V	M	LP	V	BP
Dharapuram	V	M	LP	V	BP
Udumalpet	V	M	LP	V	BP

V-Vegetative; M-Maturity; BP-Boll picking; LP-Land preparation

### Agro Advisory

There is a chance to get summer rainfall around 40 to 50 mm in next 3 days at Coimbatore and Tiruppur district. Hence, summer ploughing may be given to both dryland and irrigated fallow land. Provide inward ring basin around coconut and fruit tree crops to harvest rainwater.

Rain is expected with increased wind speed, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

Considering the favourable soil temperature, turmeric rhizome may be done after land preparation. Considering the turmeric requirement 100kg Fe so<sub>4</sub> + 50 kg Znso<sub>4</sub>+ 1 ton of composed coir waste can be applied as basal application before sowing mother rhizomes.

### SMS advisory

Rain is expected with increased wind speed of >10km/hour, hence provide adequate support to Banana above 5 months old and propping in Sugarcane is recommended.

## Ariyalur

Crop: Rice and Irrigated blackgram

In rice cultivation 22 kg urea + 18 kg gypsum + 4 kg neem cake mixed well and keep it over- night and add 10 kg MOP + 125kg of Super phosphate per acre as basal application during main field preparation is essential. In irrigated blackgram 22 kg urea, 125 kg superphosphate, 17 kg MOP, 45 kg gypsum per- acre as basal application is to be done. 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. Livestocks To prevent the loss of milk production of the cattle due to heat stress, add 100 gram of baking- soda to the feed. Increase the quantum of amino acids, vitamins and mineral content of cattle feed so as to- compensate the less quantity of feed consumed by cattle in summer. Artificial insemination should be done before 9.30 am in summer season.

## Karur

Crop: Rice and Irrigated blackgram

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. 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. 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. In irrigated blackgram, application of pre-emergence herbicide pendimethalin @ 1.3 litre /→ acre is to be done on 3 DAS. Livestocks To prevent the loss of milk production of the cattle due to heat stress, add 100 gram of baking→ soda to the feed. Increase the quantum of amino acids, vitamins and mineral content of cattle feed so as to→ compensate the less quantity of feed consumed by cattle in summer. Artificial insemination should be done before 9.30 am in summer season.

### **Nagapattinam**

Crop: Rice, Irrigated blackgram and Rice fallow cotton Stage: Rice fallow cotton: Vegetative stage In rice cultivation 22 kg urea + 18 kg gypsum + 4 kg neem cake mixed well and keep it over→ night and add 10 kg MOP + 125kg of Super phosphate per acre as basal application during main field preparation is essential. In irrigated blackgram 22 kg urea, 125 kg superphosphate, 17 kg MOP, 45 kg gypsum per acre→ as basal application is to be done. 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. Livestocks To prevent the loss of milk production of the cattle due to heat stress, add 100 gram of baking→ soda to the feed. Increase the quantum of amino acids, vitamins and mineral content of cattle feed so as to→ compensate the less quantity of feed consumed by cattle in summer. Artificial insemination should be done before 9.30 am in summer season.

### **Perambalur**

Crop: Rice and Irrigated blackgram 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. 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. 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. In irrigated blackgram, application of pre-emergence herbicide pendimethalin @ 1.3 litre / acre→ is to be done on 3 DAS. Livestocks To prevent the loss of milk production of the cattle due to heat stress, add 100 gram of baking→ soda to the feed. Increase the quantum of amino acids, vitamins and mineral content of cattle feed so as to→ compensate the less quantity of feed consumed by cattle in summer. Artificial insemination should be done before 9.30 am in summer season.→

### **Thanjavur, Thiruchirapalli & Thiruvarur**

Crop: Rice, Irrigated blackgram and Rice fallow cotton Stage: Rice fallow cotton: Vegetative stage In rice cultivation 22 kg urea + 18 kg gypsum + 4 kg neem cake mixed well and keep it over→ night and add 10 kg MOP + 125kg of Super phosphate per acre as basal application during main field preparation is essential. In irrigated blackgram 22 kg urea, 125 kg superphosphate, 17 kg MOP, 45 kg gypsum per acre→ as basal application is to be done. 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. Livestocks To prevent the loss of milk production of the cattle due to heat stress, add 100 gram of baking – soda to the feed. Increase the quantum of amino acids, vitamins and mineral content of cattle feed so as to – compensate the less quantity of feed consumed by cattle in summer. Artificial insemination should be done before 9.30 am in summer season.

### **Nilgiris**

Agro meteorological advisory for Nilgiris district Light to medium rainfall is expected in the district for next five days. Apply mulching around the plants to preserve soil moisture. For pepper plantations, if liming is not done in the past two years, application of lime @ 500 grams per vine may be done after getting the first summer shower rain. For ginger crop, after the summer showers, plough the field into fine tith and form beds of 1 metre width, convenient length and 25 cm height and plant ginger with rhizome bits of 20 - 25 grams in weight. The expected rainfall will be conducive for spread of late blight in potato and to control the disease, foliar spray of Mancozeb @ 2 g/litre is recommended. Farmers are advised to spray Wettable sulphur @ 2 g/l once in fortnight to control powdery mildew disease in vegetables Light to medium rainfall is expected for next five days. To prevent wilting disease in pepper plantation, apply 25 g of Trichoderma viride and 25 g Pseudomonas fluorescens along with 500 g Neem cake per vine.

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

Special Weather Advisory Bulletin for Poultry Farming:

For next three days, the sky will be intermittently cloudy with chance of summer showers at scattered places. Maximum and minimum temperature will be around 39.0°C (102.2°F) and 25.0°C (77.0°F) respectively. Wind speed will be around 4 km/hour, mostly from southeast direction. Relative humidity will be in the range of 40 - 70%.

Intermittent cloudy sky and scattered rainfall will cut down the duration of maximum day time temperature. Elevated wind speed with high humidity will bring down the night temperature by 3°C. Hence, prevailing heat stress in birds will be reduced. However, continue summer management without fail.

Special Agroadvisory from Krishi Vigyan Kendra, Namakkal:

Control “Green Leaf Hopper” incidence in rain fed Surabi cotton by foliar spraying of NSKE 5% or Acephate 2g/lit of water along with stickers 1ml/lit of water.

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