



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 034 /2018**

For the period 0830 IST, 01<sup>st</sup> May 2018 to  
0830 IST, 04<sup>th</sup> May 2018

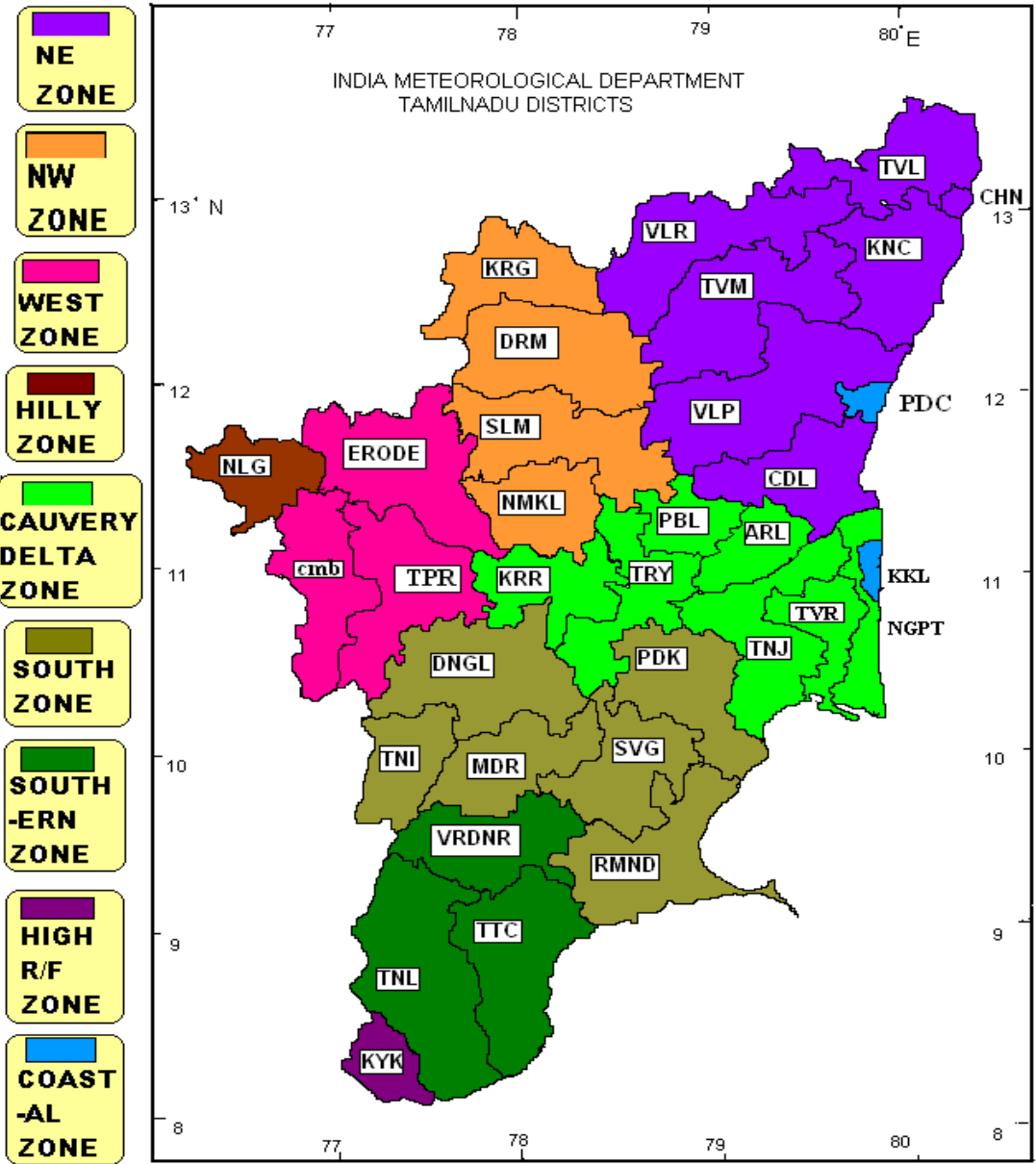
**Issued on Tuesday, 01<sup>st</sup> May 2018**

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 27.04.18 to 30.04.18 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 31°C – 40°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 20°C – 25°C during the period.

Minimum temperature of range 24°C - 29°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 11°C - 13°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)	--	--
Isolated (Isolated Places)	27.04.18, 28.04.18,29.04.18 & 30.04.18	Tamil Nadu
Dry	27.04.18, 28.04.18,29.04.18 & 30.04.18	Puducherry

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

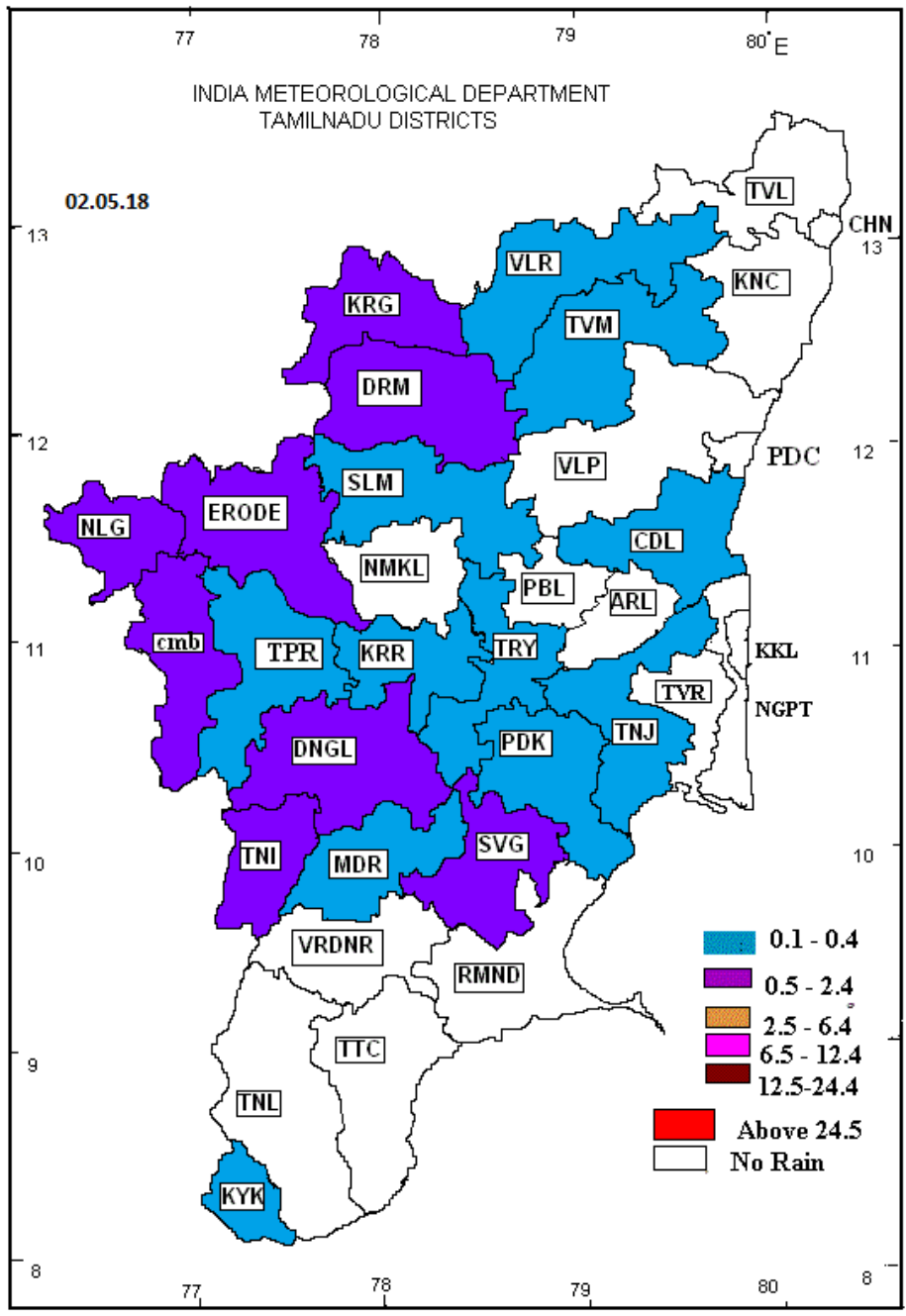
27.04.18: Coonoor pto (Nilgiris Dist), Periyar (Theni Dist) 3 each, Periyanaickenpalayam (Coimbatore Dist), K bridge (Nilgiris Dist), Bhavani (Erode Dist), Kothagiri (Nilgiris Dist), Thalavadi (Erode Dist), Kodaikanal (Dindigul Dist), Coonoor (Nilgiris Dist) 2 each, Thali (Krishnagiri Dist), Gudalur (Theni Dist), Ketti (Nilgiris Dist), Sivagiri (Tirunelveli Dist), Udumalpet (Tiruppur Dist), Uthagamandalam (Nilgiris Dist), Denkanikottai (Krishnagiri Dist), Valparai taluk office (Coimbatore Dist), Chinnakalar (Coimbatore Dist), Rayakottah (Krishnagiri Dist), G Bazar (Nilgiris Dist), Naduvattam (Nilgiris Dist), Periyakulam AWS (Theni Dist), Valparai pto (Coimbatore Dist), Hogenekal (Dharmapuri Dist), Hosur (Krishnagiri Dist), Shoolagiri (Krishnagiri Dist) 1 each.

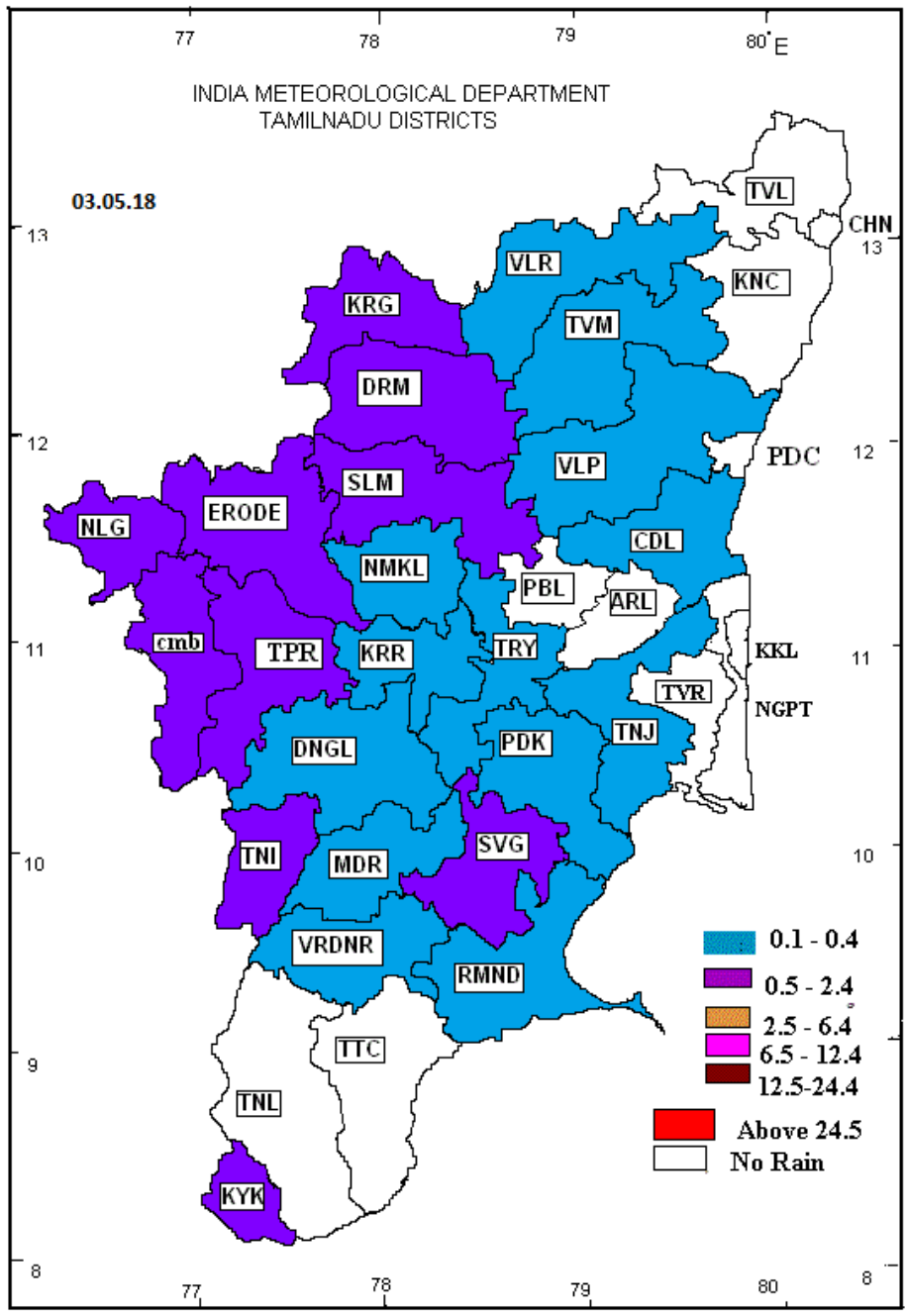
28.04.18: Usilampatti (Madurai Dist), Thuckalay (Kanyakumari Dist), Kadaladi (Ramanathapuram Dist) 2 each, Bhavani (Erode Dist), Nilakottai (Dindigul Dist), Manamadurai (Sivaganga Dist), Erode (Erode Dist), Periyakulam AWS (Theni Dist) 1 each.

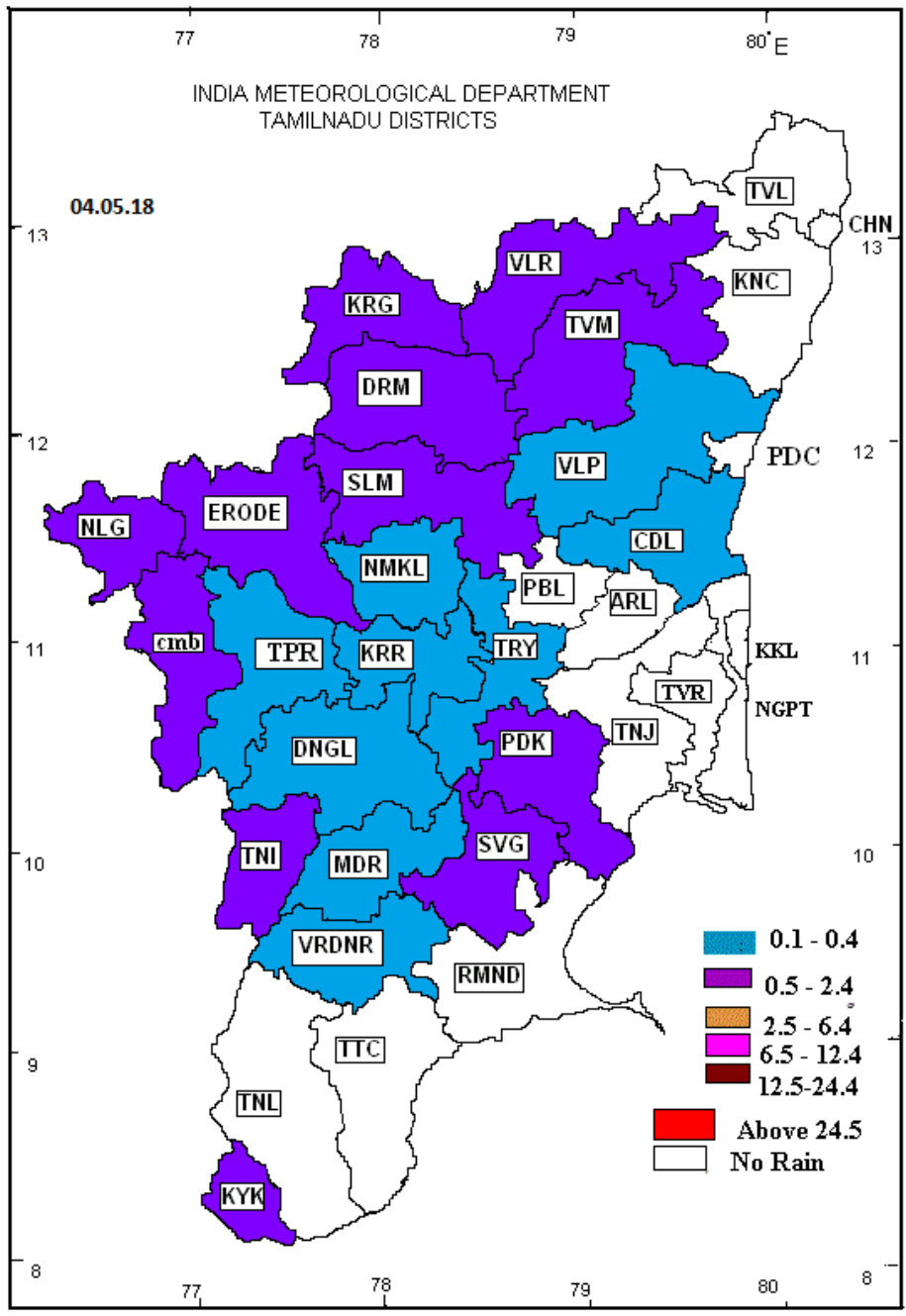
29.04.18: Kalugumalai (Toothukudi Dist) 3 and Palayamkottai (Tirunelveli Dist), Satankulam (Toothukudi Dist) 1 each.

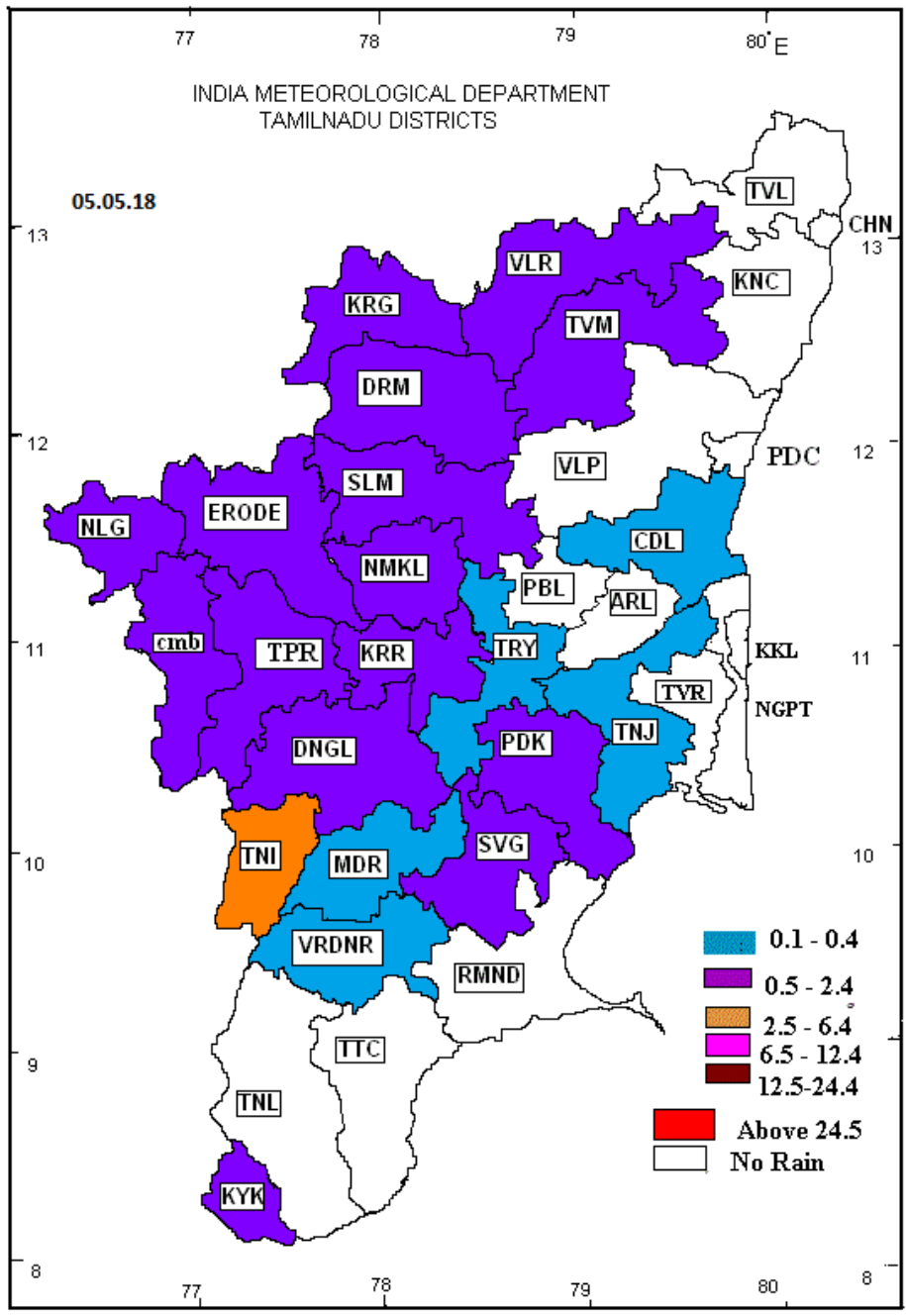
30.04.18: Perunchani ( Kanyakumari Dist) 2, Puthan Dam ( Kanyakumari Dist) 1.

**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 01.05.2018  
VALID FOR THE NEXT 5 DAYS**

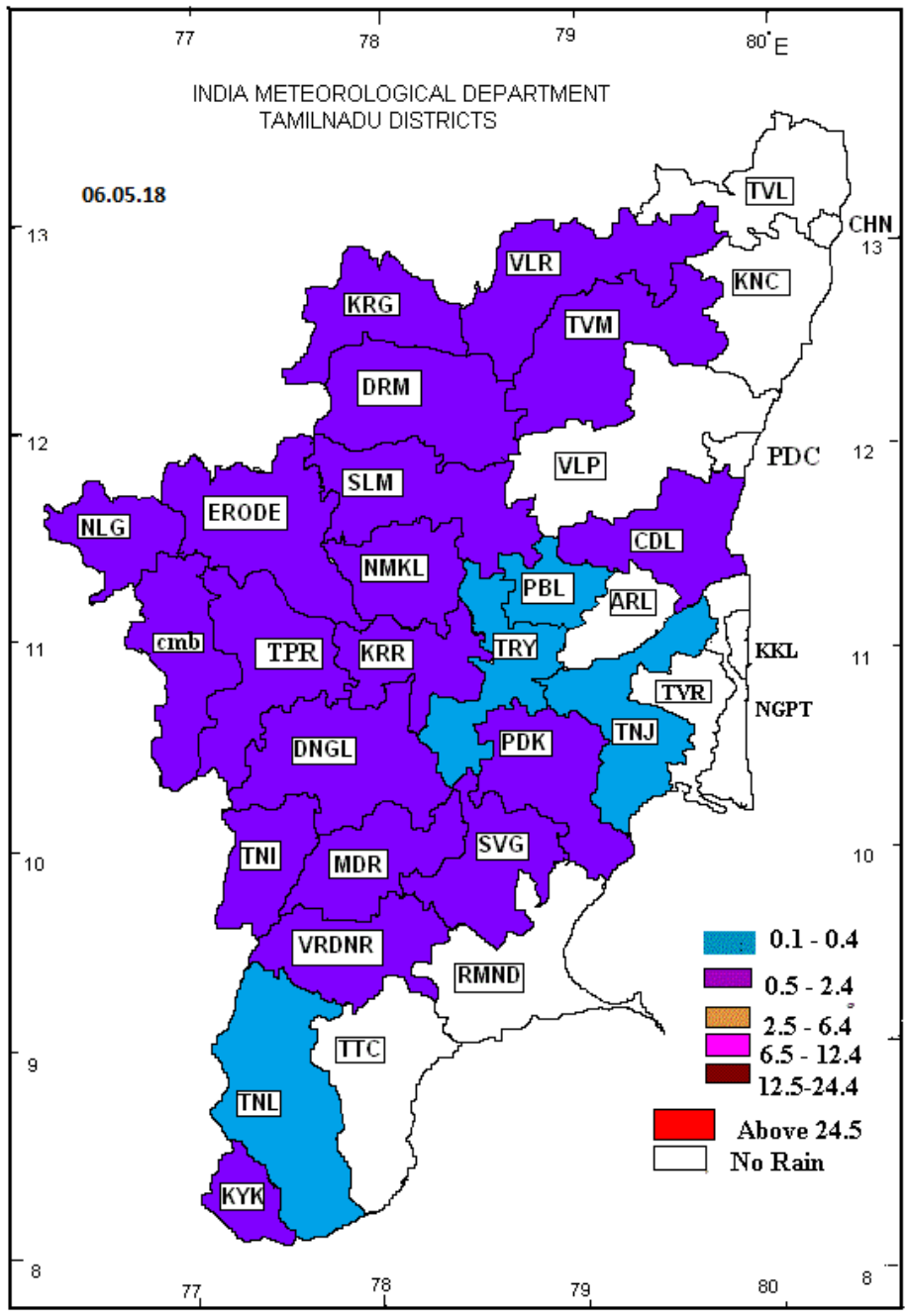












## **Districtwise Agromet Advisories**

### **Chennai ,Kancheepuram ,Thiruvallur & Villupuram**

Livestock: 1. Due to increase day temperature farmer's are advised to sprinkle water on the roof of the animal shed to reduce heat stress to the animals. 2. Poultry farmers are advised to cover the water tank by roof and pipe lines with wet gunny bags to provide cool drinking water during hot part of the day. 3. Due to increase in day temperature poultry farmers are advised to raise the feeders between 10 am to 5 pm, Provide mineral mixture and B-complex vitamins in drinking water to avoid heat stoke. 4. During day time farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 time to reduce heat stress. 5. Avoid grazing of animals near ponds and lakes to avoid fluke infestation. 6. Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor. Agriculture (Krishi Vigyan Kendra, Kattupakkam) Imp. Crops: Rice, Sugarcane and Groundnut 1. To control the incidence of sucking pest in the vegetable crops farmer are advised to spray neem seed kernal extract 5 percent. 2. 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. 3. To prevent grain discolouration in rice, spray two gram of Carbendazim + Thiram + Mancozeb (1:1:1) mixture in one litre of water at 50% flowering stage or spray NSKE 5%.

### **Thiruvannamalai, Vellore & Cuddalore**

Livestock: 1. Light rainfall may be expected for next five days. 2. Due to increase day temperature farmer's are advised to sprinkle water on the roof of the animal shed to reduce heat stress to the animals . 3. Poultry farmers are advised to cover the water tank by roof and pipe lines with wet gunny bags to provide cool drinking water during hot part of the day. 4. Due to increase in day temperature poultry farmers are advised to raise the feeders between 10 am to 5 pm, Provide mineral mixture and B-complex vitamins in drinking water to avoid heat stoke. 5. During day time farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 time to reduce heat stress. 6. Avoid grazing of animals near ponds and lakes to avoid fluke infestation. 7. Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor. Agriculture Imp. Crops: Rice, Sugarcane and Groundnut 1. To control the incidence of sucking pest in the vegetable crops farmer are advised to spray neem seed kernal extract 5 percent. 2. 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. 3. To prevent grain discolouration in rice, spray two gram of Carbendazim + Thiram + Mancozeb (1:1:1) mixture in one litre of water at 50% flowering stage or spray NSKE 5%

### **Ariyalur, Karur, Nagapattinam, Perambalur, Thanjavur & Tiruchirapalli.**

Weather based Agromet advisories

Crop: Rice, blackgram, greengram and cotton

Stage: Rice fallow pulses: Maturity stage; Cotton: Flowering stage

In irrigated blackgram, application of pre-emergence herbicide pendimethalin @ 1.3 litre / acre is to be done on 3 DAS. For rice fallow cotton, one hand weeding and earthing up are to be done on 45 DAS. In rice fallow cotton, spray cotton plus @ 2.5 kg/ac (2.5 kg of cotton plus dissolved in 200 litres of water) at flowering and boll formation stage.

ivestock : The height of shelter in hot climate should be between 3.0 to 5.0 m.

## Thiruvapur

Weather based Agromet advisories

Crop: Rice, blackgram, greengram and cotton

Stage: Rice fallow pulses: Maturity stage; Cotton: Flowering stage

As rice fallow blackgram is in maturity stage, harvesting is to be done by picking up the matured pods or uprooting the whole plants, heaping, drying and processing. ☐ After harvesting the blackgram, dry the seeds at 9 – 10% moisture content and treat the seeds with neem oil 1 litre or activated clay 1 kg/ 100 kg of seeds for safe storage. Under summer irrigated condition, carry out the sowing of blackgram in chittrai pattam. Blackgram variety ADT 5 and VBN 6 are more suitable for this season. ☐ In rice fallow cotton, spray cotton plus @ 2.5 kg/ac (2.5 kg of cotton plus dissolved in 200 litres of water) at flowering and boll formation stage. Livestock ☐ Dispose of manure frequently to eliminate the places for flies to lay eggs.

## Coimbatore

Blocks	Sugar cane	Cumbu	Turmeric	Millets	Cotton
Thondamuthur	V&M	S	S	M	F &BP
Karamadai	V&M	S	S	M	F &BP
Sulur	V&M	S	S	M	F &BP
Sultanpet	V&M	S	S	M	F &BP
Pollachi	V&M	S	S	M	F &BP
P.N Palayam	V&M	S	S	M	F &BP
Kinathukadavu	V&M	S	S	M	F &BP
Annur	V&M	S	S	M	F &BP
Madukarai	V&M	S	S	M	F &BP
Annaimalai	V&M	S	S	M	F &BP

V-Vegetative; S-Sowing; BP-Boll picking; F -Flowering

### Agro Advisory

Light rain fall with squally wind is expected, five months old banana and sugarcane crop propping may be done against the ill effect of squally. Inward ring basin may be strengthened around coconut trees to harvest anticipated rainfall in the root zone. Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana. This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient. This is the best time for preparation of land for ensuing turmeric crop planting hence prepare the land by utilizing expected rain fall.

**SMS advisory:** This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient.

## Erode

Taluks	Sugar cane	Cumbu	Turmeric	Millets	Cotton
Ammamet	V	S	S	M	S &BP
Bhavani	V	S	S	M	S & BP
Erode	V	S	S	M	S & BP

Perundurai	V	S	S	M	S & BP
Sathyamangalam	V	S	S	M	S & BP
Nambiyur	V	S	S	M	S & BP
Gobichettipalayam	V	S	S	M	S & BP

V-Vegetative; M-Maturity; BP-Boll picking; S-Sowing; F-Flowering; M-Maturity

Agro Advisory

Light rain fall with squally wind is expected, five months old banana and sugarcane crop propping may be done against the ill effect of squally. Inward ring basin may be strengthened around coconut trees to harvest anticipated rainfall in the root zone. Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana. This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient. This is the best time for preparation of land for ensuing turmeric crop planting hence prepare the land by utilizing expected rain fall.

SMS advisory: This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient.

### Tiruppur

Blocks	Sugar cane	Millets	Turmeric	Irrigated Maize	Cotton
Avinashi	V	M	S	F	BP
Kankayam	V	M	S	F	BP
Madathukulam	V	M	S	F	BP
Gudimangalam	V	M	S	F	BP
Palladam	V	M	S	F	BP
Dharapuram	V	M	S	F	BP
Udumalpet	V	M	S	F	BP

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

Agro Advisory

Light rain fall with squally wind is expected, five months old banana and sugarcane crop propping may be done against the ill effect of squally. Inward ring basin may be strengthened around coconut trees to harvest anticipated rainfall in the root zone. Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana. This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient. This is the best time for preparation of land for ensuing turmeric crop planting hence prepare the land by utilizing expected rain fall.

SMS advisory: This is the best time of sowing cumbu under irrigated dry condition. Provide irrigation if soil moisture from rain is not sufficient.

### Dindigul

Important Crops : Bhendi & Animal husbandry Prevailing weather condition the incense of Shoot and fruit borer in Bhendi. It damages the Terminal shoots wither and droop, Shedding of buds and flowers ,Bore hole in fruits and fee, Deformed fruits. To manage this collect and destroy the affected fruits.And release of parasite Trichogramma chilonis @ 1.0 lakh/ha. Set up pheromone trap @ 12/ha. To control

spray 5 gm of Azadirachtin 0.03% WSP (300 ppm) / 1 ltr or 5 ml of Azadirachtin 5% Neem Extract Concentrate / 10 ltr. Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

#### **Madurai**

Important Crops : Sugarcane & (Animal husbandry) Due to prevailing current weather the occurrence of Woolly Aphid was noticed in Sugarcane . This Aphids suck the sap from leaves , excrete honey dew and development of sooty mould fungus ,White chalk powder coating on the ground and leaves . To manage the wooly Aphids field release of bio control agents like Dipha aphidivora, Micromus and coccinellids . Avoiding transportation of aphid infested leaves from one location to another. Avoiding use of infested cane for seed purpose. Ensuring that the insecticides treated leaves are not used as fodder. Spray any one of the following insecticides once or twice in affected patches Acephate 75 SP @2gm/lit or Chlorpyrifos 25 EC @2ml/lit. Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

#### **Pudukkottai**

Important Crops : Cashew & (Animal husbandry) 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. Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

#### **Ramanathapuram**

Important Crops : Chilly & (Animal husbandry) Prevailing current weather the incense of Tobacco cutworm in Chilly. The Newly hatched larvae scrap the green matter in the leaf, Affected leaf looks like a papery white structure. In severe infestations they feed voraciously on the entire lamina and petiole. To control plough the soil to expose and kill pupae, cultivate the castor as a trap crop. Set up pheromone trap @15/ha. And spray Thiodicarb 75 % WP2.0 g/lit or Novaluron 10 % EC 7.5 ml/10 lit. Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

#### **Sivagangai**

Important Crops : Brinjal & ( Animal husbandry ) Prevailing hot weather condition farmers are advised to monitor the whitefly with yellow sticky trap at 12 Nos./ha. Spray Neem oil 3% + Teepol (1 ml/lit) or spray Neem Seed Kernel Extract 5 %. Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

#### **Theni**

Important Crops : Banana & ( Animal husbandry ) Prevailing weather condition the incense of Rhizome weevil in Banana. It grubs bore into the rhizome and cause death of the plant. Presence of dark coloured tunnels in the rhizomes. Death of unopened pipe, withering of outer leaves. To manage Select healthy sucker and plant Do not take regular crop in the same field to avoid initial infestation, Grow less susceptible varieties like Poovan, Kadali, Kunnan, Poomkalli , Apply castor cake 250g or carbaryl 50g dust or phorate 10g per pit before planting also prevents infestation. Soil incorporation at the time of planting: carbofuran 3 G 10g, phorate 10 G 5 g/plant. Before planting, the suckers should be dipped in 0.1 per cent quinalphos emulsion. Use cosmolure trap at 5/ha . Since the maximum temperature is high enough, animal may feed with drinking water @ 80 –100 liters per day per animal in four splits.

### Kanniyakumari

S. NO	CROP	STAGES	ADVISORIES
1.	There are possibilities of 27 mm rainfall distributed during forthcoming five days.		
2.	Fruit trees and Tree spices	All stages	Spraying of insecticides, weedicides and application of fertilizer should be postponed due to rain.
3.	Horticultural crops	All stages	Grafting and cutting of horticultural crops may be taken.
4.	Agricultural and horticultural crops	All stages	Provide proper drainage facilities to prevent rain water stagnation.
5.	Pepper	All stages	Pepper rooted cuttings can be planted if there is sufficient soil moisture.

SMS Advisory : Fruit trees and Tree spices: Spraying of insecticides, weedicides and application of fertilizer should be postponed due to rain.

### Thoothukudi

Crop/ Ecosystem Stage / Activities Advisories High wind speed Farmers are advised to go for mulching to preserve the soil moisture for the crop growth. Animal Husbandry In order to mitigate the effect of high temperature on animals provide adequate cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed. Prevailing moderate wind speed may damage the banana crops. Farmers are advised to do propping for Banana. For irrigated crops, wind speed will increase evaporation loss. Hence, regular interval of irrigation may be given to avoid heat stress. General Summer Ploughing Summer ploughing is advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall during summer months. Green manure crop Raise green manure crop by using unexpected rainfall during summer months. Banana Bunch development stage Use transparent polyethylene sleeves with 4% ventilation to cover the bunch immediately after opening of last hand to blemish free fruits with uniform size and quality. Rice Harvest technology The right stage for harvesting is when about 80% panicles have 80 % ripened spike lets and their upper portion is straw colored. The grain contains about 20% of moisture. Prevailing weather is favorable for bud worm incidence. Flower crop Maligai control the spray any one of the chemical Thiochlorid (Alanto) 240SC @ 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit or Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %. SMS: Rain: Nil. Maligai - bud worm incidence - spray any one of the chemical Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %.

### Tirunelveli

Crop/ Ecosystem Stage / Activities Advisories Farmers are advised to go for mulching to preserve the soil moisture for the crop growth. Animal Husbandry In order to mitigate the effect of high temperature on animals provide adequate cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed. General Summer Ploughing Summer ploughing is

advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall during summer months. Green manure crop Raise green manure crop by using unexpected rainfall during summer months. SMS: Rain: 6.05.18: 1mm. Rainfall- Summer ploughing is advised by utilizing the unexpected rainfall.

### **Virudhunagar**

Ecosystem Stage / Activities Advisories High temperature (40oC) is expected in coming days. Farmers are advised to go for mulching to preserve the soil moisture for the crop growth. Animal Husbandry In order to mitigate the effect of high temperature on animals provide adequate cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed. Rainfall Summer Ploughing Summer ploughing is advised to improve the infiltration rate of soil as well as to control the weed growth by utilizing the unexpected rainfall during summer months. Green manure crop Raise green manure crop by using unexpected rainfall during summer months. Prevailing weather is favorable for bud worm incidence. to Flower crop Maligai control the spray any one of the chemical Thiochlorid (Alanto) 240SC @ 1 ml/litre or Spinosad (Tracer) @ 0.5 ml/lit or Spray Profenophos 25EC @ 2 ml/lit or Spray neem seed kernel extract 5 %. SMS: Rain: 3, 4, 5 & 6.05.18: 1, 2, 2 & 5 mm. Rainfall- Summer ploughing is advised by utilizing the unexpected rainfall.

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