



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 040 /2018**

For the period 0830 IST, 22<sup>nd</sup> May 2018 to  
0830 IST, 25<sup>th</sup> May 2018

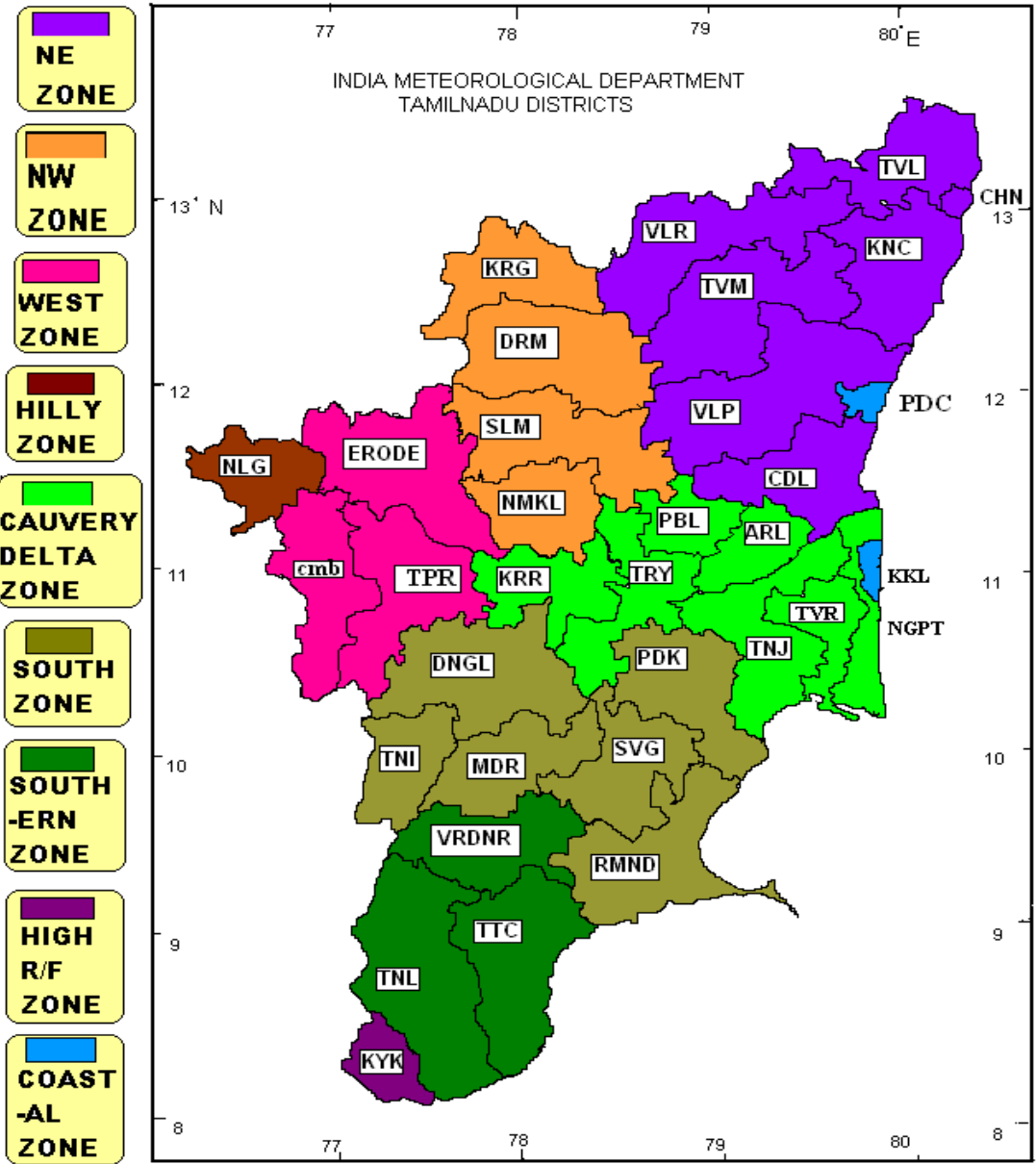
**Issued on Tuesday, 22<sup>nd</sup> May 2018**

**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 18.05.18 to 21.05.18 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 19°C – 24°C during the period.

Minimum temperature of range 21°C - 30°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 12°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)	18.05.18, 19.05.18 , 20.05.18 &21.05.18	Tamil Nadu
Dry	18.05.18, 19.05.18, 20.05.18 &21.05.18	Puducherry

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

18.05.18: Kuzhithurai (Kanyakumari Dist) 11, Nagercoil (Kanyakumari Dist) 10, Kanyakumari (Kanyakumari Dist), Colachel (Kanyakumari Dist), Mylaudy (Kanyakumari Dist) 6 each, Bhoothapandy (Kanyakumari Dist), Pechiparai (Kanyakumari Dist), Thuckalay (Kanyakumari Dist), Eraniel (Kanyakumari Dist) 5 each, Dharamapuri (Dharmapuri Dist) 4, Karur (Karur Dist), Periyar (Theni Dist), Harur (Dharmapuri Dist) 3 each, K.paramathi (Karur Dist), Bhavanisagar (Erode Dist), Tirupathur pto (Vellore Dist) 2 each, Pappireddipatti (Dharmapuri Dist), Devakottai (Sivaganga Dist), Chinnakalar (Coimbatore Dist), Dharmapuri pto (Dharmapuri Dist), Paramathivelur (Namakkal Dist), Venbavur (Perambalur Dist), Peravurani (Thanjavur Dist), Mettur (Salem Dist) 1 each

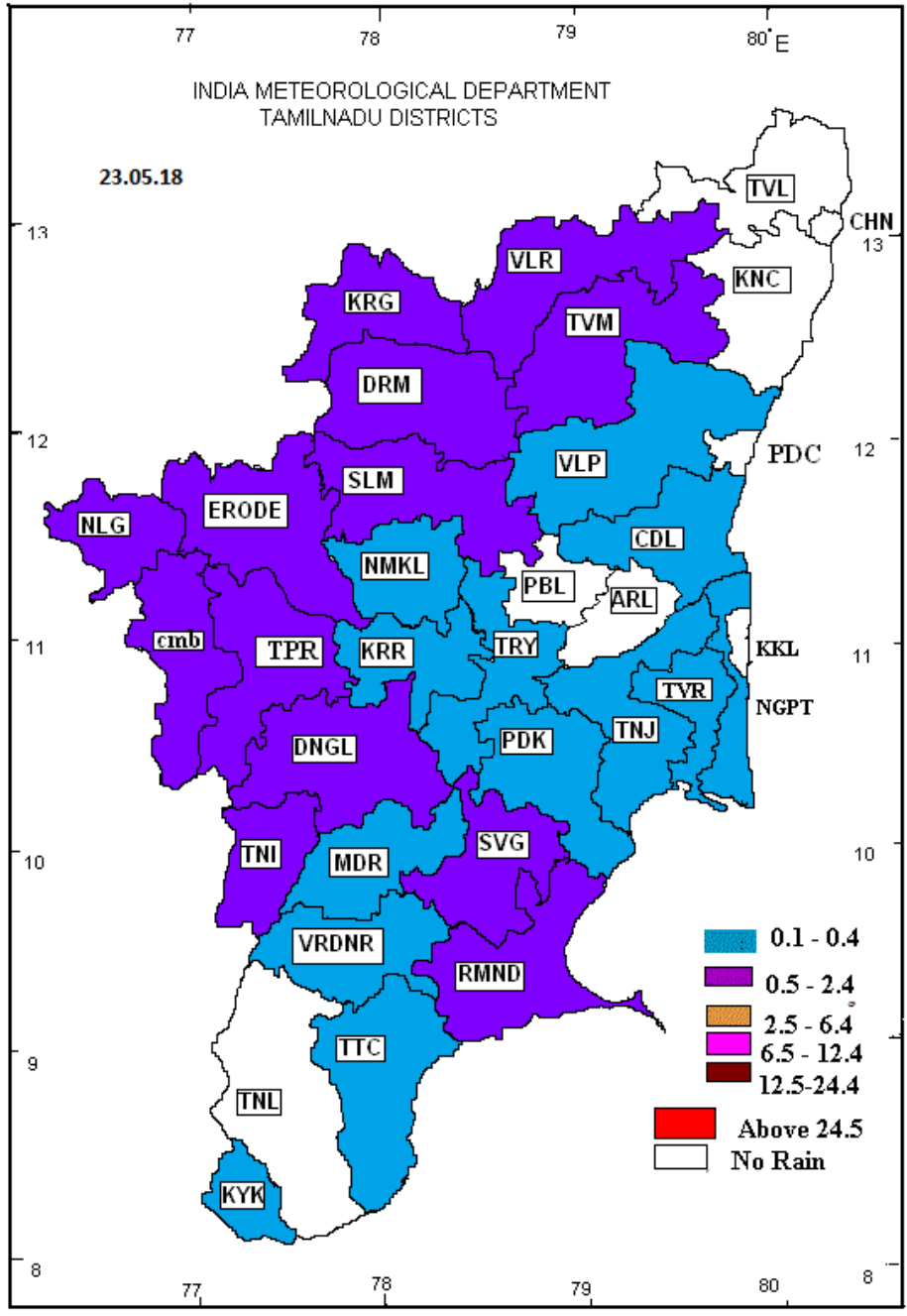
19.05.18: Sivaganga (Sivaganga Dist) 9, Colachel (Kanyakumari Dist) 7, Venbavur (Perambalur Dist), Manamadurai (Sivaganga Dist), Mayanur (Karur Dist), Kanyakumari (Kanyakumari Dist) 5 each, Satankulam (Toothukudi Dist), Ariyalur (Ariyalur Dist) 4 each, Sattur (Virudhunagar Dist) 3, Tirukattupalli (Thanjavur Dist), Pechiparai (Kanyakumari Dist), Mettupatti (Madurai Dist) 2 each, Pullambadi (Trichy Dist), Sivakasi (Virudhunagar Dist), Eraniel (Kanyakumari Dist), Musiri (Trichy Dist), Peraiyur (Madurai Dist), Thuraiyur (Trichy Dist), Mudukulatur (Ramanathapuram Dist), Tirupuvanam

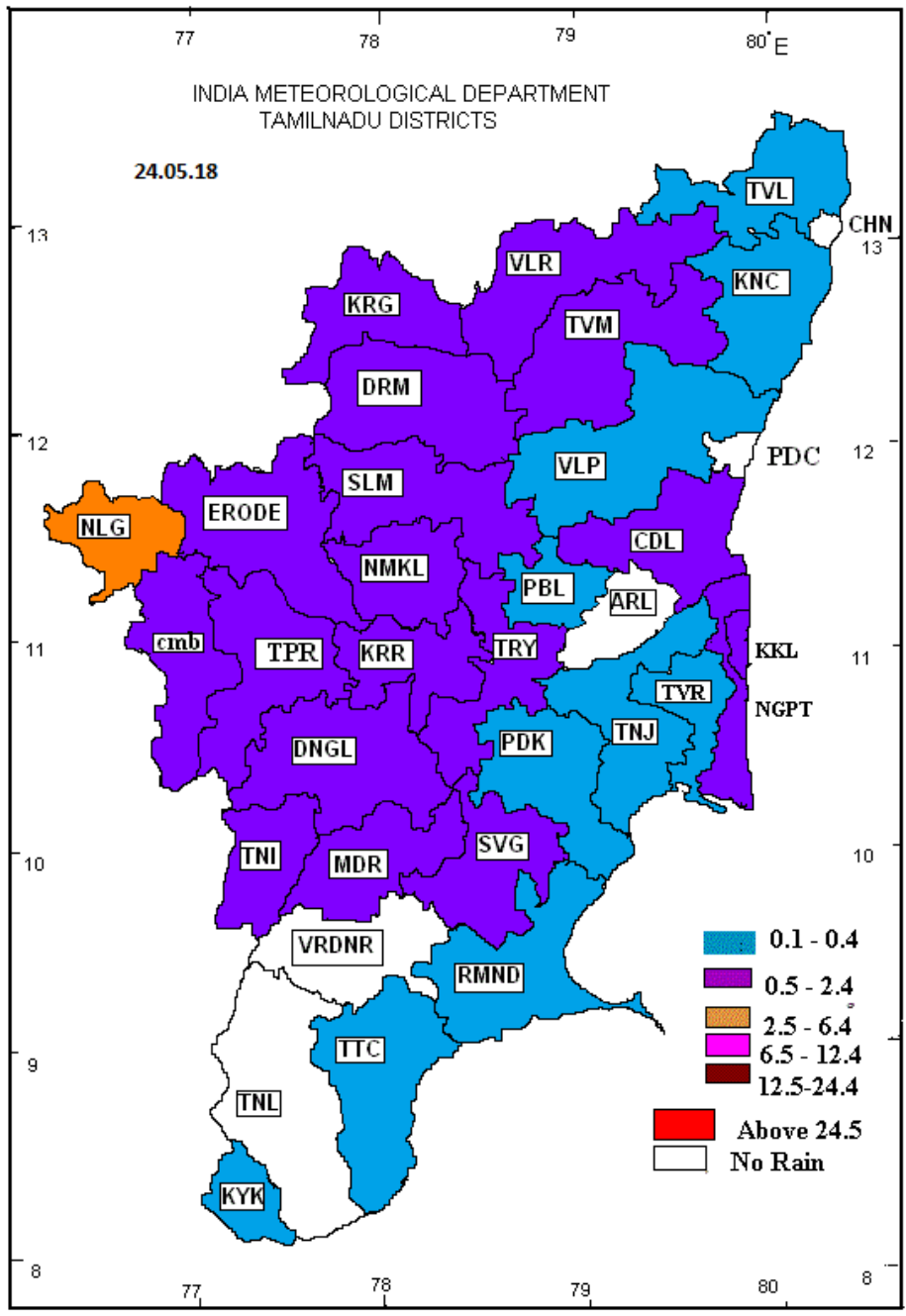
(Sivaganga Dist), Karaikudi (Sivaganga Dist), Airport Madurai (Madurai Dist), Arantangi (Pudukkottai Dist), Chinnakalar (Coimbatore Dist), Tirumangalam (Madurai Dist), Kadaladi (Ramanathapuram Dist) 1 each.

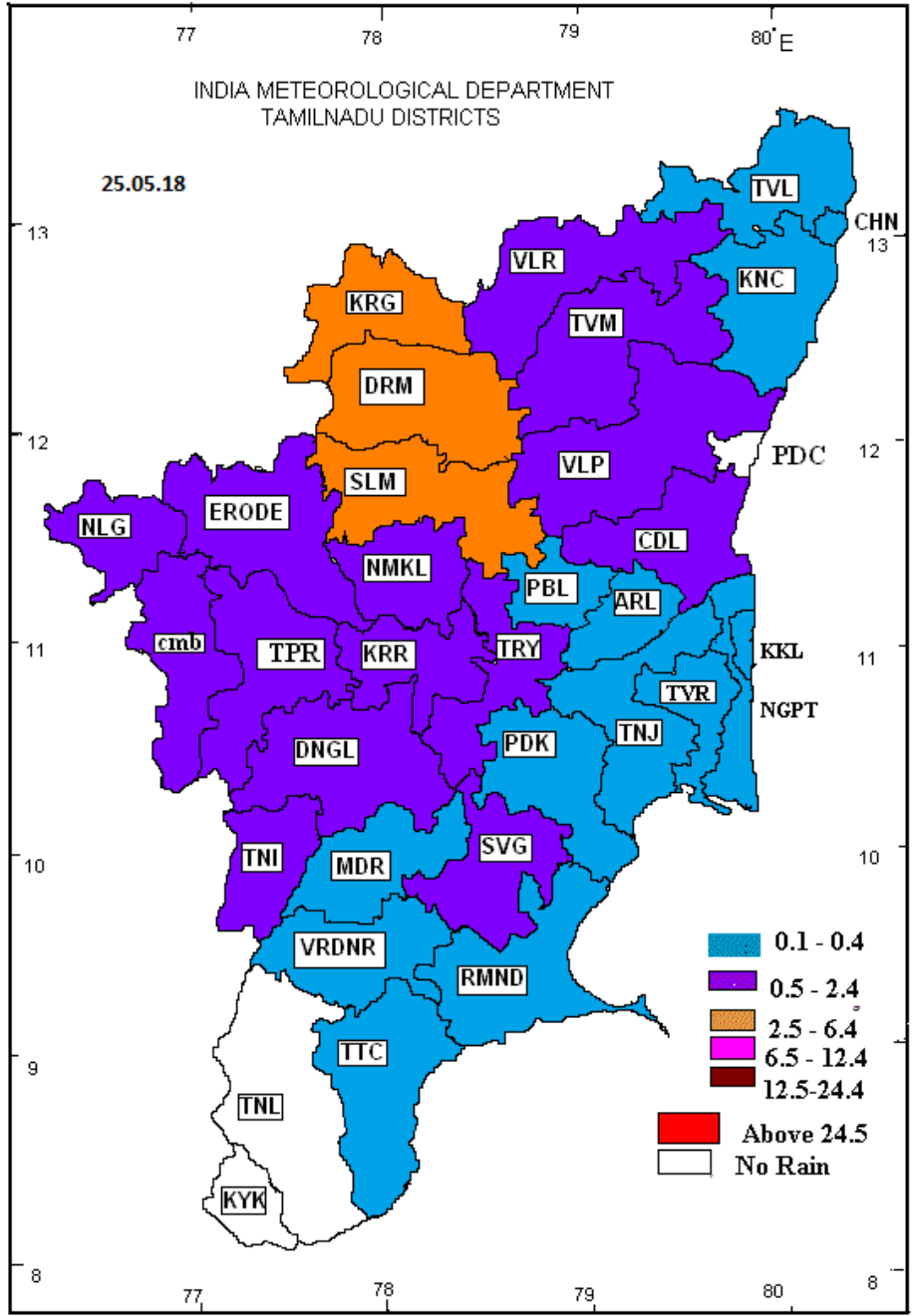
20.05.18: Vellore (Vellore Dist) 5, Thali (Krishnagiri Dist), Gobichettipalayam (Erode Dist) 4 each, Pechiparai (Kanyakumari Dist), Perundurai (Erode Dist), Rayakottah (Krishnagiri Dist), Mettupalayam (Coimbatore Dist), Gudiyatham (Vellore Dist) 3 each, Marandahalli (Dharmapuri Dist), G Bazar (Nilgiris Dist), Denkanikottai (Krishnagiri Dist), Salem (Salem Dist), Devala (Nilgiris Dist), Bhavanisagar (Erode Dist), Periyanaickenpalayam (Coimbatore Dist), Vazhapadi (Salem Dist) 2 each, Annur (Coimbatore Dist), Shoolagiri (Krishnagiri Dist), Vaniyambadi (Vellore Dist), Bhavani (Erode Dist), Virinjipuram AWS (Vellore Dist), Kumarapalayam (Namakkal Dist), Thalavadi (Erode Dist), Pennagaram (Dharmapuri Dist), Hosur (Krishnagiri Dist), Barur (Krishnagiri Dist), Uthangarai (Krishnagiri Dist) 1 each.

21.05.18: Colachel (Kanyakumari Dist), Kanyakumari (Kanyakumari Dist), Nagercoil (Kanyakumari Dist) 3 each, Kuzhithurai (Kanyakumari Dist), Hosur (Krishnagiri Dist), Marungapuri (Trichy Dist), Eraniel (Kanyakumari Dist), Usilampatti (Madurai Dist), Nilakottai (Dindigul Dist), Thali (Krishnagiri Dist) 2 each, Periyakulam (Theni Dist), Bodinaickanur (Theni Dist), Shoolagiri (Krishnagiri Dist), Trp town (Trichy Dist), Thuckalay (Kanyakumari Dist), Sattur (Virudhunagar Dist), Denkanikottai (Krishnagiri Dist) 1 each.

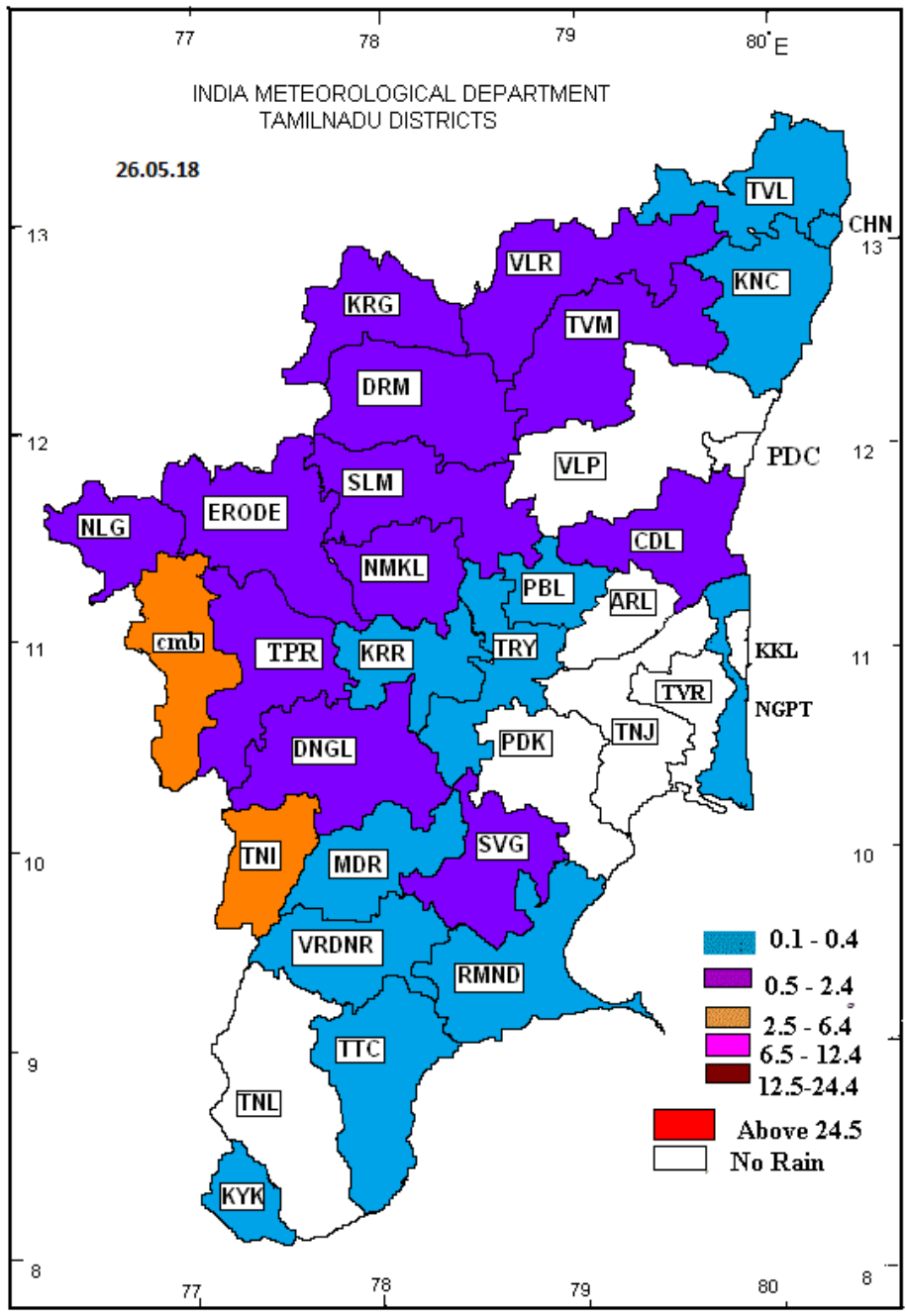
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 22.05.2018  
VALID FOR THE NEXT 5 DAYS**

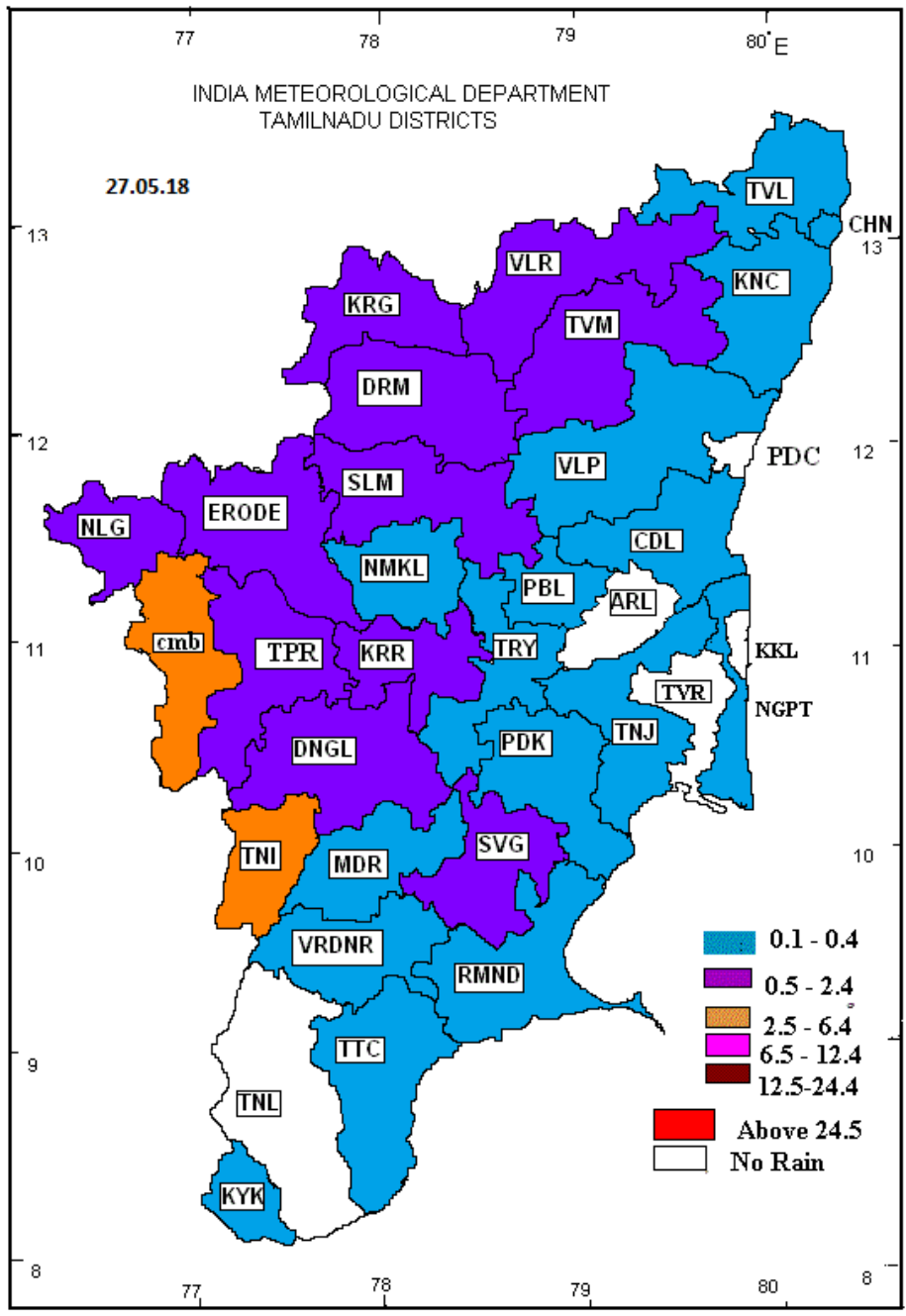












## **Districtwise Agromet Advisories**

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

Livestock:

Light rainfall may be expected from 24.05.2018 to 27.05.2018.

Farmers are requested to ensure that all the farm animals have uninterrupted access to drinking water all the time during summer.

Due to expected increase in day temperature farmers are advised to feed the dairy cattle early in the morning and late in the evening along with mineral mixture to avoid heat stress.

For every 100 birds add 10-20 ml of B-complex or liver tonic to the drinking water to reduce heat stress.

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.

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.

During day time farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 times to reduce heat stress.

Agriculture (Krishi Vigyan Kendra, Kattupakkam)

Imp. Crops: Rice, Sugarcane and Groundnut

The root zone of horticulture crops are covered with coir pith to conserve moisture.

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

To control the incidence of sucking pest in the vegetable crops farmers are advised to spray neem seed kernel extract 5 percent.

### **Nilgiris**

Moderate rainfall is expected in the Nilgiris district for next five days. In carnation, to control leaf spot disease, foliar spray of fungicide propiconazole 1 ml/litre or hexaconazole @ 1 ml/litre of water may be done. Soil application of entomopathogenic fungus *Beauveria bassiana* @ 2 kg/acre along with farm yard manure during soil preparation may be done to control cut worms, root grubs and borers. Before cropping in the current irrigated season, soil samples may be tested for nutrient content and soil properties.

### **Ariyalur,Karur,Nagapattinam,Perambalur,Thanjavur,Thiruvarur & Thiruchirapalli**

Crop: Blackgram, greengram and cotton Stage: Irrigated pulses: Vegetative stage; Cotton: Flowering stage For summer irrigated blackgram, do gap filling with soaked seeds at 7- 8 days after sowing for maintaining optimum population. For managing weeds in irrigated blackgram, apply post emergence herbicides at 15-20 DAS (when weeds are at 2- 3 leaf stage). Use imazethapyr 10% SL @ 200 ml/ ac when broad leaved weeds are present and quizalofop ethyl 5% EC @ 400 ml/ ac for grassy weeds. If both weeds are present, do tank mix application of both herbicides. If weeds are at 4- 5 leaf stage use imazethapyr @ 250 ml/ ac and quizalofop ethyl @ 500 ml/ ac. Livestock For alleviating heat stress grazing of cows and goats during peak summer hours has to be avoided and sprinkling of water on milch animals in every two hours between 10 a.m. to 5 p.m. is to be done for sustaining the milk production.

### **Thoothukudi**

Crop/ Ecosystem Stage / Activities Advisories 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. Raise green manure crop by using unexpected rainfall during summer months. Prevailing moderate wind speed may damage the banana crops. Farmers are advised to do propping for Banana. For irrigated crops, wind speed and increase in night temperature will affect the crop growth. Hence, regular interval of irrigation and application of mulch can be adopted to avoid heat stress. Rice fallow pulse – black gram Pod formation stage Prevailing weather is favorable pod borer incidence. To control spray Indoxacarb 15.8% SC 333 ml/ha or Chlorantraniliprole 18.5 SC 150ml/ha. Prevailing weather is favorable for scab incidence. Citrus Fruiting stage They form corky outgrowths. On fruits irregular scabily spots or caked masses produced. Cream colour in young fruits; dark olive grey in old fruits. To control the disease spray Carbendazim 0.1% 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. SMS: Rain: 23,24, 25,26 & 27.05.18: 2,2,1,2 & 2 mm Rice fallow Black gram - pod borer - Spray Indoxacarb 15.8% SC 333 ml/ha or Chlorantraniliprole 18.5 SC 150ml/ha.

### **Thirunelveli**

Crop/ Ecosystem Stage / Activities Advisories 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. Raise green manure crop by using unexpected rainfall during summer months. Prevailing weather is favorable for scab incidence. Citrus Fruiting stage They form corky outgrowths. On fruits irregular scabily spots or caked masses produced. Cream colour in young fruits; dark olive grey in old fruits. To control the disease spray Carbendazim 0.1% Rice fallow pulse – black gram Pod formation stage Prevailing weather is favorable pod borer incidence. To control spray Indoxacarb 15.8% SC 333 ml/ha or Chlorantraniliprole 18.5 SC 150ml/ha. SMS: Rain: Nil. Rice fallow Black gram - pod borer - Spray Indoxacarb 15.8% SC 333 ml/ha or Chlorantraniliprole 18.5 SC 150ml/ha.

### **Virudhunagar**

Crop/ Ecosystem Stage / Activities Advisories 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. Raise green manure crop by using unexpected rainfall during summer months. Prevailing weather is favorable for scab incidence. Citrus Fruiting stage They form corky outgrowths. On fruits irregular scabily spots or caked masses produced. Cream colour in young fruits; dark olive grey in old fruits. To control the disease spray Carbendazim 0.1% SMS: Rain: 23, 25, 26 & 27.05.18: 1,1,1 & 1 mm. Green manure crop - Raise green manure crop by using unexpected rainfall to improve the soil fertility.

## Coimbatore

Blocks	Sugar cane	Cumbu	Turmeric	Milletts	Groundnut
Thondamuthur	P	S	S	S	S
Karamadai	P	S	S	S	S
Sulur	P	S	S	S	S
Sultanpet	P	S	S	S	S
Pollachi	P	S	S	S	S
P.N Palayam	P	S	S	S	S
Kinathukadavu	P	S	S	S	S
Annur	P	S	S	S	S
Madukarai	P	S	S	S	S
Annaimalai	P	S	S	S	S

P-Planting; S–Sowing

### Agro Advisory

Considering the prevailing weather, pruning may be done in Grapes at 2 buds level for Thompson variety and 4 buds level for other varieties.

Considering the continuous rainfall provide adequate drainage to recently planted sugarcane, maize, groundnut and turmeric rhizome to avoid root rot.

Provide deep basin one meter away from the coconut trunk to harvest the anticipated rainfall.

Moderate to heavy rainfall is anticipated. Provide sufficient drainage facility to harvest excess rainwater in the farm pond.

Do not allow the animals to graze on newly grown grasses, due to the receipt of last week rain.

### SMS advisory

Considering the continuous rainfall, provide adequate drainage to recently planted crops to avoid root rot.

## Erode

Taluks	Sugar cane	Cumbu	Turmeric	Milletts	Cotton
Ammapet	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

Considering the prevailing weather, pruning may be done in Grapes at 2 buds level for Thompson variety and 4 buds level for other varieties.

Considering the continuous rainfall provide adequate drainage to recently planted sugarcane, maize, groundnut and turmeric rhizome to avoid root rot.

Provide deep basin one meter away from the coconut trunk to harvest the anticipated rainfall.

Moderate to heavy rainfall is anticipated. Provide sufficient drainage facility to harvest excess rainwater in the farm pond.

Do not allow the animals to graze on newly grown grasses, due to the receipt of last week rain.

SMS advisory

Considering the continuous rainfall, provide adequate drainage to recently planted crops to avoid root rot.

### **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**

Considering the prevailing weather, pruning may be done in Grapes at 2 buds level for Thompson variety and 4 buds level for other varieties.

Considering the continuous rainfall provide adequate drainage to recently planted sugarcane, maize, groundnut and turmeric rhizome to avoid root rot.

Provide deep basin one meter away from the coconut trunk to harvest the anticipated rainfall.

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SMS advisory

Considering the continuous rainfall, provide adequate drainage to recently planted crops to avoid root rot.

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

For the next three days, Namakkal and its surroundings will have enhanced cloudiness with occasional thunders and rains in the evenings in more places. A few places may get good rains too. With the wind direction seen from south west for the past few days, the chances and possibilities of setting in and south west monsoon are bright in a weeks time from now.as summer showers are occurring since 15 days the birds have had a good relief all these days.However, the temperature may short up few hours in a given day , which will require meticulous follow up of summer management in all disciplines. D)

Special Agro advisory from Krishi Vigyan Kendra, Namakkal: 2. Groundnut and pulse farmers are advised for take up groundnut and greengram sowing with available soil moisture. And also weeding and top dressing of fertilize to be taken up in already sowing completed field.

### Kanyakumari

S. NO	CROP	STAGES	ADVISORIES
1.			There are chances of light rainfall during forth coming five days. Maximum temperature will range from 32 <sup>0</sup> - 33 <sup>0</sup> C. Minimum temperature will range from 22 <sup>0</sup> - 23 <sup>0</sup> C. The relative humidity will range from 70 - 90 %. Wind speed is 18 to 19 kmph.
2.	Banana	Bunching	High wind speed (18 -19 km/hr) is anticipated and so it is advised to provide mechanical support to banana to avoid lodging.
3.	Coconut	All stages	Basins can be formed and green manure sowing may be taken up in the basins.
4.	Tapioca	All stages	Spraying of fish oil rosin soap @ 25g/litre for the management of tapioca mealy bug.
5.	Pepper	All stages	Pepper rooted cuttings can be planted if there is sufficient soil moisture.

### SMS Advisory

High wind speed (18 -19 km/hr) is anticipated and so it is advised to provide mechanical support to banana to avoid lodging.

### Dindigul

Important Crops : Tomato & Animal husbandry

Due to prevailing weather condition leaf curl virus instance may occur in Tomato. To control spray systemic insecticides like Methyl demeton or Dimethoate @ 2 ml/lit. to kill the insect vector, whitefly.

Cowpox, the initially symptom is fever, a small area of udder swelling and reddening on the teat. This is painful and makes the cow difficult to milk. Over the next two days, the affected area elevates into an orange papule, which then scabs over. To control this maintain the cowshed hygiene by using dis-infectable gloves. Clean the udder and teats with Potassium permanganate solution before milking. Emollient teat sprays and dips on the teat skin and by aiding the healing of damaged skin.

## **Madurai**

Important Crops : Coconut & Animal husbandry

Prevailing weather condition to reduce the water evaporation in Coconut grove the mulching technology can be practiced. Apply coconut husks with convex surface facing upwards (100 Nos.) or dried coconut leaves (15 Nos) or coir pith up to a height of 10 cm in the basin of 1.8 m radius around the palms as mulch for soil moisture conservation particularly during summer season .

Cowpox, the initially symptom is fever, a small area of udder swelling and reddening on the teat. This is painful and makes the cow difficult to milk. Over the next two days, the affected area elevates into an orange papule, which then scabs over. To control this maintain the cowshed hygiene by using disinfectable gloves. Clean the udder and teats with Potassium permanganate solution before milking. Emollient teat sprays and dips on the teat skin and by aiding the healing of damaged skin.

## **Pudukottai**

Important Crops : Bhendi & Animal husbandry

Prevailing weather condition the occurrence of Whitefly seen in Bhendi, The symptoms are chlorotic spots on the leaves which latter coalesce forming irregular yellowing of leaf tissue, Severe infestation results in premature, defoliation, development of sooty mold, Vector of yellow vein mosaic virus. To control, spray any one of the following insecticide Phosalone 35 EC @ 2.5 l/ha or Quinalphos 25 EC @ 2.0 l/ha.

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## **Ramanathapuram**

Important Crops : Chilly & Animal husbandry

Prevailing weather condition the incense of Tobacco cutworm seen 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. Spray Thiodicarb 75 % WP 2.0 g/lit or Novaluron 10 % EC 7.5 ml/10 lit.

Cowpox, the initially symptom is fever, a small area of udder swelling and reddening on the teat. This is painful and makes the cow difficult to milk. Over the next two days, the affected area elevates into an orange papule, which then scabs over. To control this maintain the cowshed hygiene by using disinfectable gloves. Clean the udder and teats with Potassium permanganate solution before milking. Emollient teat sprays and dips on the teat skin and by aiding the healing of damaged skin.

## **Sivagangai**

Important Crops : Banana & Animal husbandry

Due to prevailing hot weather condition incense of Hard scale in Banana. Hard scale grubs bore into the rhizome and cause death of the banana plant. The symptoms are presence of dark coloured tunnels in the rhizomes, death of unopened pipe, withering of outer leaves.

To control by biological method collect and destroy the affected plant parts, release coccinellid



predators like *Chilocorus nigritus*, *Symnus coccivora* in affected banana field .

Cowpox, the initially symptom is fever, a small area of udder swelling and reddening on the teat. This is painful and makes the cow difficult to milk. Over the next two days, the affected area elevates into an orange papule, which then scabs over. To control this maintain the cowshed hygiene by using disinfectable

gloves. Clean the udder and teats with Potassium permanganate solution before milking. Emollient teat sprays and dips on the teat skin and by aiding the healing of damaged skin.

### **Theni**

Important Crops : Vegetables & Animal husbandry

Due to the prevailing weather there is a possibility for multiplication of jassids, thrips, whitefly, spiraling whitefly and different species of mealy bug including papaya mealy bug. Hence, farmers are advised to monitor the sucking pests by installing yellow sticky traps @ 5 / acre and if needed spray neem seed kernel extract 5% (or) fish oil rosin soap @ 25 gm/lit. of water.

Cowpox, the initially symptom is fever, a small area of udder swelling and reddening on the teat. This is painful and makes the cow difficult to milk. Over the next two days, the affected area elevates into an orange papule, which then scabs over. To control this maintain the cowshed hygiene by using dis-infectable gloves. Clean the udder and teats with Potassium permanganate solution before milking. Emollient teat sprays and dips on the teat skin and by aiding the healing of damaged skin.

### **Puducherry**

To control leaf folder in rice, release *Trichogramma chilonis* @ 5 cc (1,00,000/ha) thrice at 37, 44 and 51 days after planting or Spray NSKE 5 % or Azadirachtin 0.03% 1000 ml/ha or Acephate 75% SP @ 666-1000 g/ha or Chlorpyrifos 20 EC @ 1250 ml or Flumendiamide 25 WG 125 g/ha. Avoid application of excessive nitrogenous fertilizers.

As a summer crop, gingelly (for coarse textured soil) or ragi (for clay textured soil) @ 5 kg/ha may be raised utilizing additional irrigation facilities wherever available.

### **Karaikal**

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.

As a summer crop, gingelly (for coarse textured soil) or ragi (for clay textured soil) @ 5 kg/ha may be raised utilizing additional irrigation facilities wherever available.

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