



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 045/2016**

For the period 0830 IST, 03<sup>rd</sup> June 2016 to

0830 IST, 07<sup>th</sup> June 2016

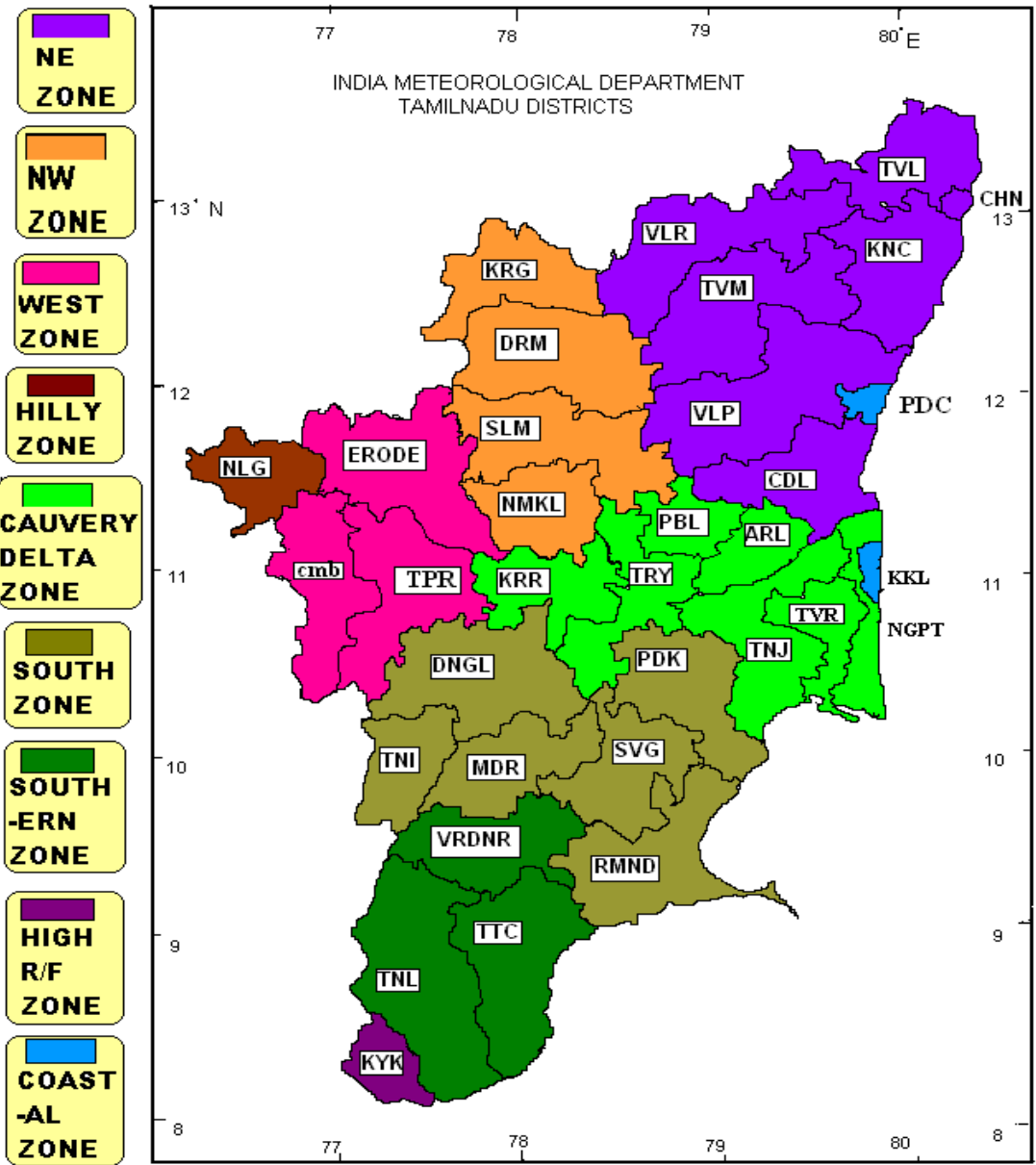
**Issued on Friday, 03<sup>rd</sup> June 2016**

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 31.05.16 to 02.06.16 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 32°C – 40°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 18°C – 21°C during the period.

Minimum temperature of range 22°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**

<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>	<b>31.05.16, 01.06.16 &amp; 02.06.16</b>	<b>Tamilnadu</b>
<b>Dry</b>	<b>31.05.16,01.06.16&amp;02.06.16</b>	<b>Puducherry</b>

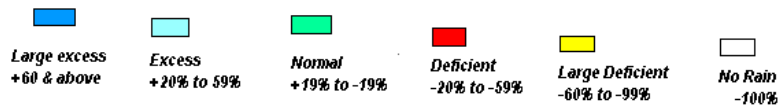
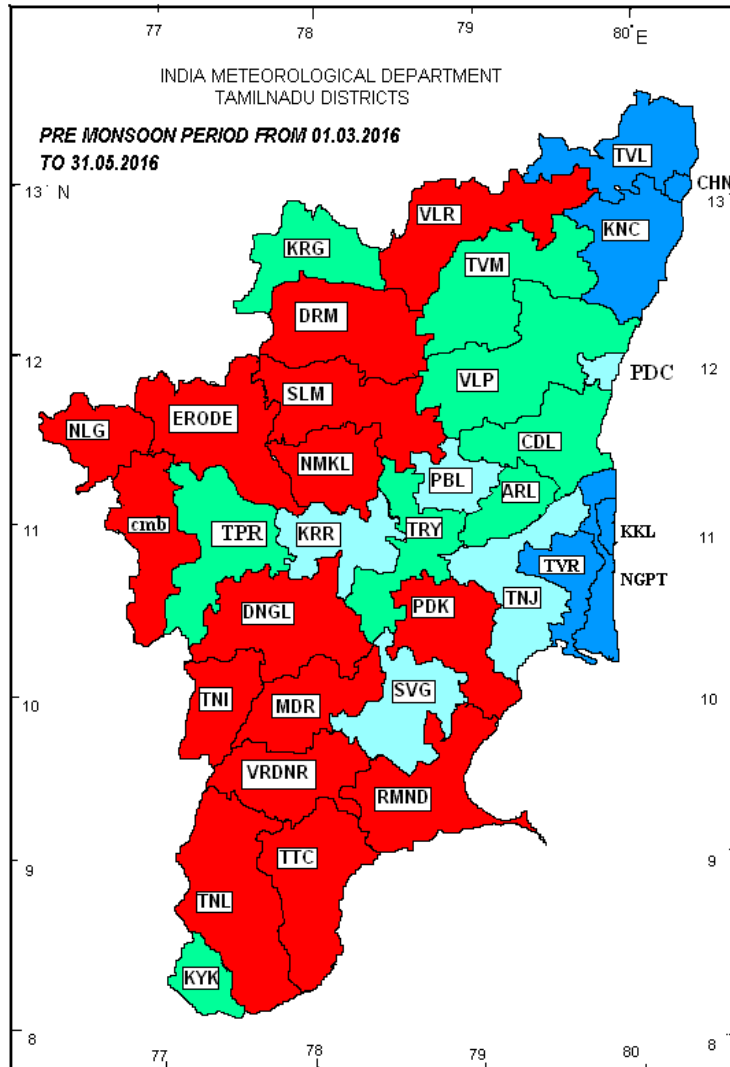
## **Chief Amounts of Rainfall (in cms):-**

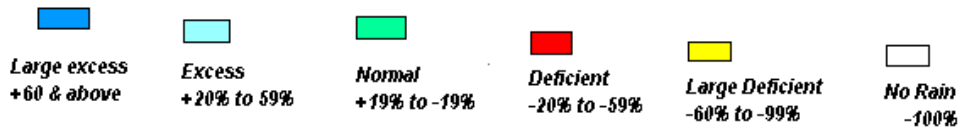
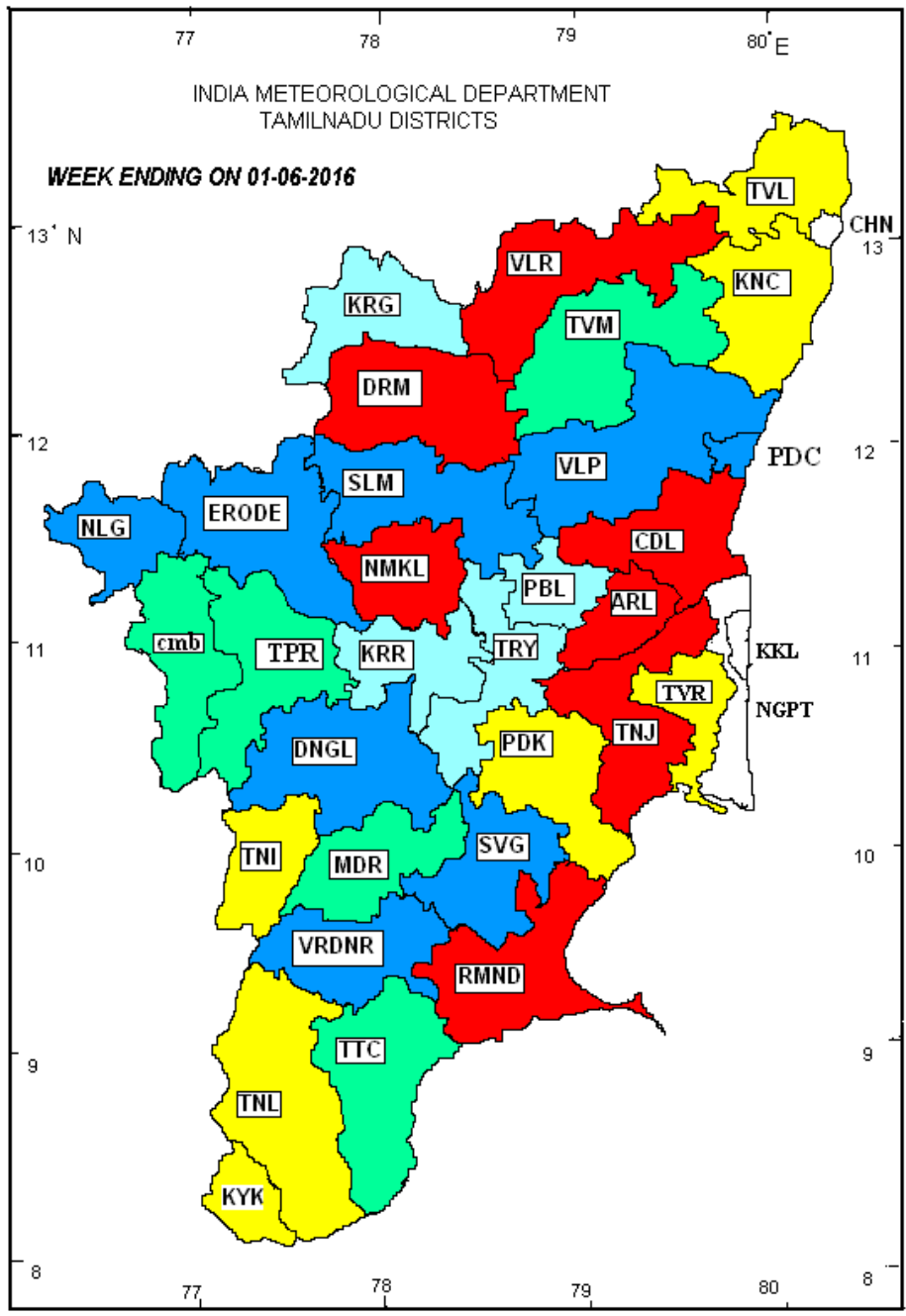
**31.05.16** : Grand anaicut (Thanjavur Dist) 6, Omalur (Salem Dist), Kothagiri (Nilgiris Dist) 5 each, Lalgudi (Trichy Dist) 4, Vazhapadi (Salem Dist), Naduvattam (Nilgiris Dist), Nilakottai (Dindigul Dist) 3 each, Tirukattupalli (Thanjavur Dist), Yercaud (Salem Dist), Uthangarai (Krishnagiri Dist), Tiruchirappalli AP (Trichy Dist), Devala (Nilgiris Dist), Kodaikanal (Dindigul Dist) 2 each, Aruppukottai (Virudhunagar Dist), Ketti (Nilgiris Dist), Chettikulam (Perambalur Dist), Samayapuram (Trichy Dist), Nagercoil (Kanyakumari Dist), Rasipuram (Namakkal Dist), Mangalapuram (Namakkal Dist) 1 each.

**01.06.16** : Nilakottai (Dindigul Dist) 5, Thalavadi (Erode Dist), Thuvakudi IMTI (Trichy Dist) 4 each, Marungapuri (Trichy Dist), Illayangudi (Sivaganga Dist), Dindigul arg (Dindigul Dist) 3 each, Thirukoilur arg (Villupuram Dist), Sattur (Virudhunagar Dist), Tiruchirappalli AP (Trichy Dist), Paramakudi (Ramanathapuram Dist), K bridge (Nilgiris Dist), Vandavasi (Tiruvannamalai Dist), Vilathikulam (Toothukudi Dist), Tozhudur (Cuddalore Dist) 2 each, Palacode (Dharmapuri Dist), Neyveli AWS (Cuddalore Dist), Anjatti (Krishnagiri Dist), Sendurai (Ariyalur Dist), K.paramathi (Karur Dist), Yercaud (Salem Dist), JayamkonDam (Ariyalur Dist), Chettikulam (Perambalur Dist), Polur (Tiruvannamalai Dist), Gandarvakottai (Pudukkottai Dist), Nagercoil (Kanyakumari Dist), Marandahalli (Dharmapuri Dist), Alangayam (Vellore Dist), Sathyamangalam (Erode Dist), Ketti (Nilgiris Dist) 1 each.

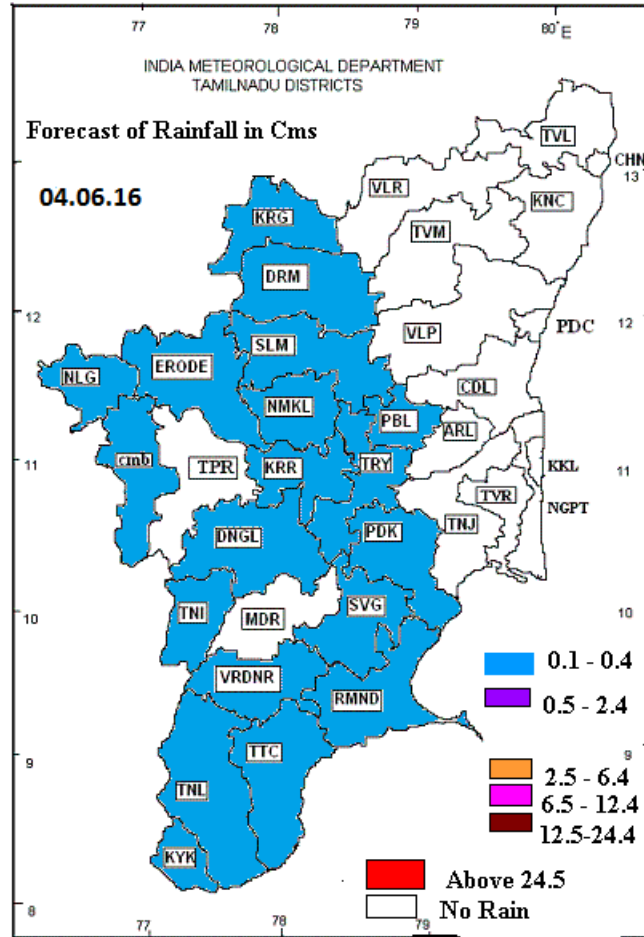
**02.06.16** : Uthangarai (Krishnagiri Dist), Dharmapuri (Dharmapuri Dist) 7 each, Dharmapuri pto (Dharmapuri Dist), Hogenekal (Dharmapuri Dist) 5 each, Tirupathur pto (Vellore Dist) 4, Erode (Erode Dist), Tirupattur (Vellore Dist), K bridge (Nilgiris Dist), Uthagamandalam (Nilgiris Dist), Tirupathur (Sivaganga Dist), Chatrapatti (odanchatra (Dindigul Dist) 3 each, Pochampalli (Krishnagiri Dist), Pennagaram (Dharmapuri Dist), Ketti (Nilgiris Dist), Bhavani (Erode Dist), Penucondapuram (Krishnagiri Dist) 2 each, Annur (Coimbatore Dist), Uthagamandalam AWS (Nilgiris Dist), Virinjipuram AWS (Vellore Dist), Gingee (Villupuram Dist), Poondi (Tiruvallur Dist), Alangayam (Vellore Dist), Barur (Krishnagiri Dist) 1 each.

# Percentage Departure of Rainfall

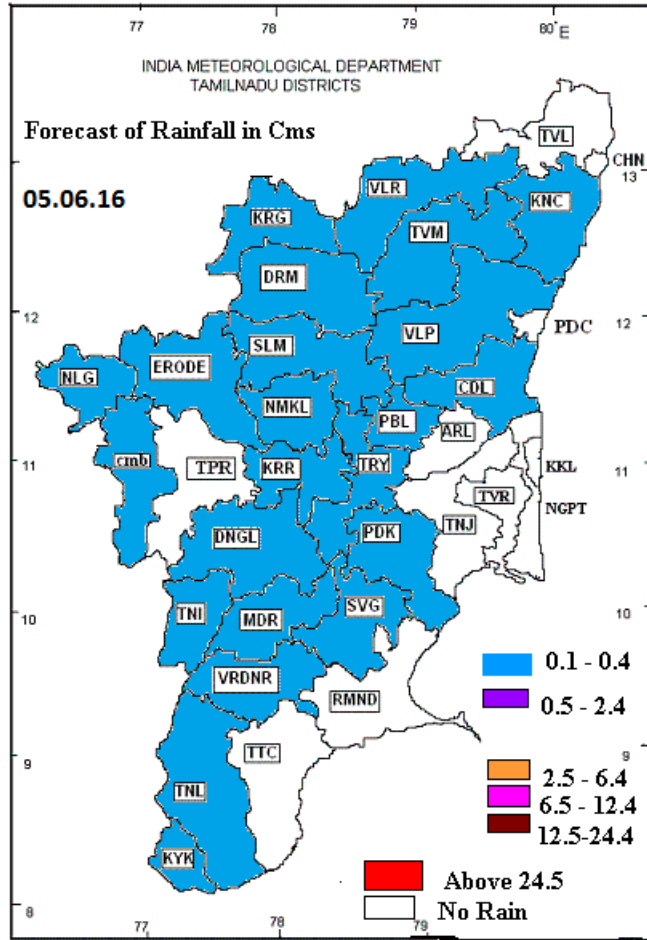


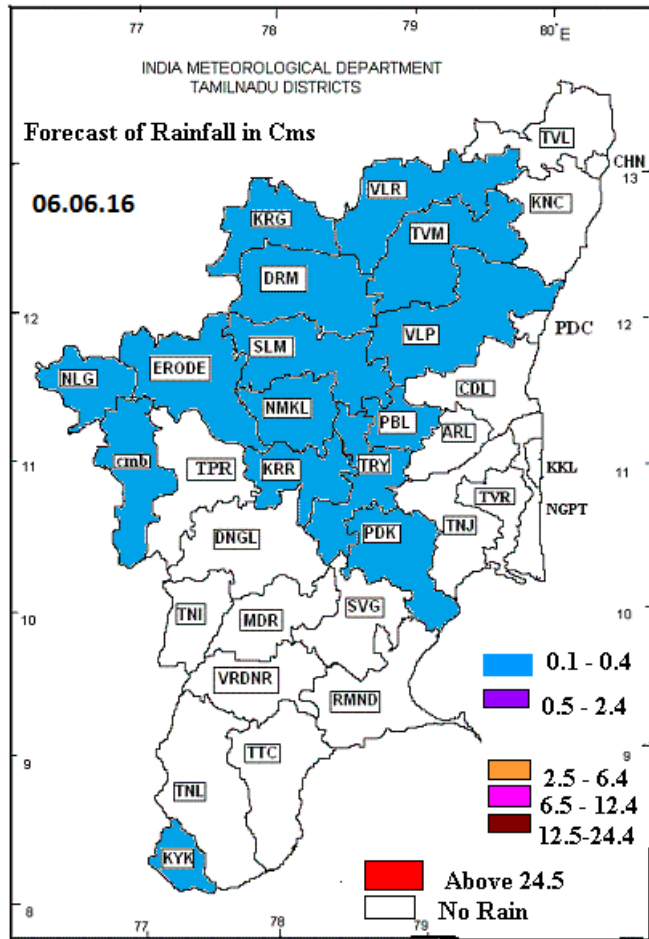


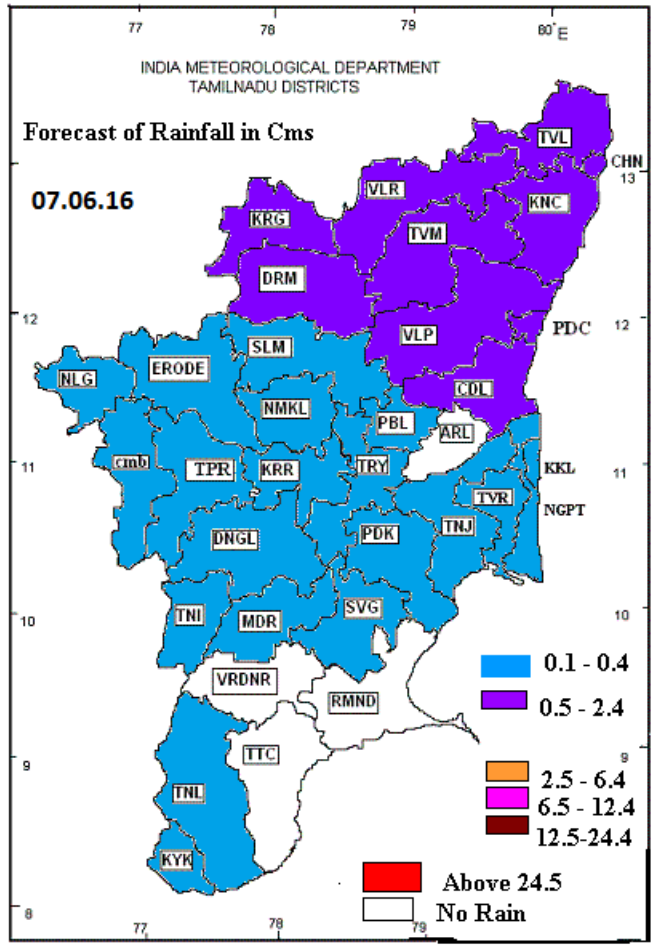
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 03.06.2016  
VALID FOR THE NEXT 5 DAYS**

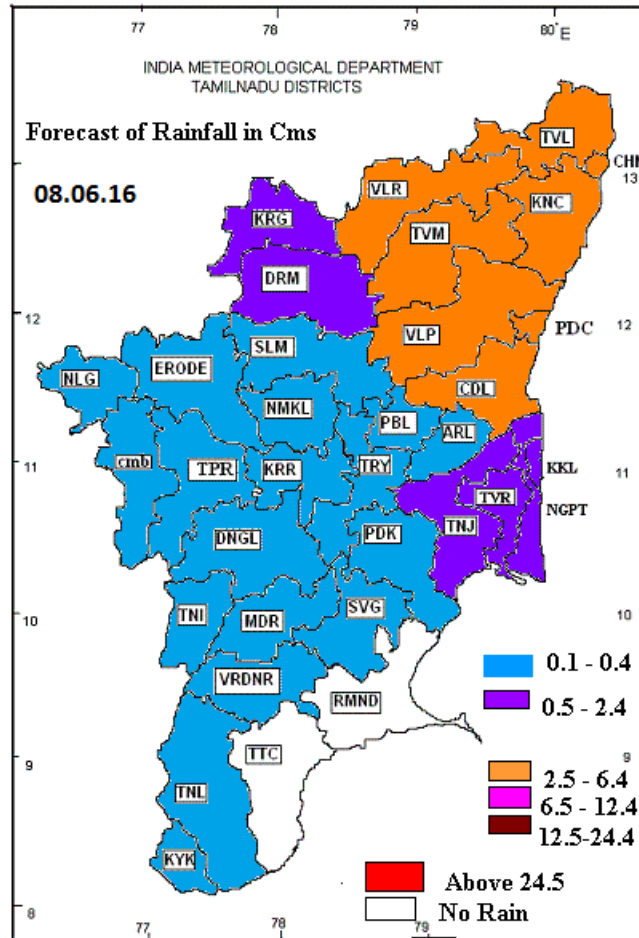












### Districtwise Agromet Advisories

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

##### **Livestock:**

1. Due to expected rainfall farmers are advised to protect their feed ingredients to avoid development of aflatoxin.
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. During high temperature farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 time to reduce heat stress.
4. Farmers are advised to wash and clean the udder before milking and not to provide dusty roughage immediately after milking to avoid mastitis.

##### **Agriculture**

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

1. Due to expected rainfall farmers are advised to postpone the application of fertilizer and pesticide to their crops.
2. The root zones of horticulture crops are covered with coir pith to conserve moisture.

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

1. The weather parameters have become more and more favorable for the onset of Southwest Monsoon, in the next 3-4 days over Kerala. Increasing wind speed, south-southwesterly wind direction and increasing cloudiness are favorable weather parameters. Due to this, the summer has come to an end and is very favorable for egg production and growth in poultry for the entire zone.
2. Post mortem observations in the birds brought for diagnostic purpose at Poultry Disease Diagnosis and Surveillance Laboratory, VC & RI, Namakkal revealed death of birds due to **Heat stroke**. Hence, farmers are advised to follow summer management.

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

3. While going for groundnut cultivation, soil application of micronutrient mixture is important. Widespread deficiency of micronutrients prevails in Namakkal district. Hence, 3 kg TNAU micronutrient mixture for rainfed and 5 kg for irrigated crop should be applied before taking up the sowing. Before application, it should be enriched with FYM@ 1:10 ratio for one month of friable moisture condition. Application of TNAU micronutrient mixture not only increases crop yield but also improves the soil fertility.

### **Dindigul, Madurai, Pudukottai, Ramanathapuram, Sivagangai, Theni**

Depending upon local weather, irrigation can be plan for garden land crops. • Summer showers may be utilized and summer ploughing may be done to increase soil moisture and to control weeds, pest and diseases. • Drip irrigation can be followed to reduce the water shortage. • Considering the high maximum and minimum temperature, Irrigation may be given to mango to prevent fruit dropping.

### **Nilgiris**

Light rainfall is expected in the district in the next five days. To prevent wilting disease in Pepper plantation, apply 25 Trichoderma viridi and 25 g Pseudomonas fluorescens along with 500 g Neem cake per wine. Due to sudden summer rainfall, if damping off/ wilt disease is noticed in vegetable crops, drench the soil around the crops with 1 gram copper oxy chloride per litre of water. This is opt season for planting tree crops. While planting, apply 50 grams of VAM per pit per plant. Due to temperature fluctuation , farmers are advised to spray Cymoxanil 8 % + Mancozeb 64 % @ 2 ml /lit to control late blight in potato

### **Tirunelveli**

<b>Crop/ Farming system</b>	<b>Stage / Activities</b>	<b>Advisories</b>
Sorghum	Stem borer	Stem borer incidence is noticed in sorghum. For controlling this monitor the pest and if incidence crosses economic threshold level (10%) mix any one of the following insecticides with sand to make up a total quantity of 50 kg/ ha and apply in the leaf whorls. Mix the sand with Phorate 10G 8 kg/ha or Carbofuran 3G 17 kg/ha.
Mango	Fruiting stage	As moderate cloud cover and light rainfall is expected in the coming days, fruit fly incidence is noticed in mango. For controlling this pest plough the interrow space to expose pupae. Prepare bait with methyl eugenol 1% solution mixed with malathion @ 2.0 ml/ lit. Take 10 ml of this mixture per trap and keep them in 25 different places in one hectare between 6 am to 8 am. Collect and destroy the fallen fruits. Spray neem oil @ 3.0 ml as need based.

SMS: Rain: June 4, 5, 7 & 8<sup>th</sup>: 0.5, 1, 1& 1 mm respectively. Sorghum- stem borer- ETL (10%)-mix sand with carbofuran 3G 17 kg/ha totally 50 kg/ ha - apply in leaf whorls.

#### **Thootikudi**

<b>Crop/ Farming system</b>	<b>Stage / Activities</b>	<b>Advisories</b>
Sorghum	Stem borer	Stem borer incidence is noticed in sorghum. For controlling this monitor the pest and if incidence crosses economic threshold level (10%) mix any one of the following insecticides with sand to make up a total quantity of 50 kg/ ha and apply in the leaf whorls. Mix the sand with Phorate 10G 8 kg/ha or Carbofuran 3G 17 kg/ha.

Mango	Fruiting stage	As moderate cloud cover and light rainfall is expected in the coming days, fruit fly incidence is noticed in mango. For controlling this pest plough the interrow space to expose pupae. Prepare bait with methyl eugenol 1% solution mixed with malathion @ 2.0 ml/ lit. Take 10 ml of this mixture per trap and keep them in 25 different places in one hectare between 6 am to 8 am. Collect and destroy the fallen fruits. Spray neem oil @ 3.0 ml as need based.
Banana and	Flowering stage	As winds with more speed are expected in the coming days give stake for banana and do propping for sugarcane to prevent the crops from damage.
Sugarcane	Grand growth stage	

SMS: Rain: 4.6.16: 0.5 mm. As winds with more speed are expected in the coming days give stake for banana and do propping for sugarcane to prevent the crops from damage.

#### Virudhunagar

Crop/ Farming system	Stage / Activities	Advisories
Sorghum	Stem borer	Stem borer incidence is noticed in sorghum. For controlling this monitor the pest and if incidence crosses economic threshold level (10%) mix any one of the following insecticides with sand to make up a total quantity of 50 kg/ ha and apply in the leaf whorls. Mix the sand with Phorate 10G 8 kg/ha or Carbofuran 3G 17 kg/ha.
Mango	Fruiting stage	As moderate cloud cover and light rainfall is expected in the coming days, fruit fly incidence is noticed in mango. For controlling this pest plough the interrow space to expose pupae.

		Prepare bait with methyl eugenol 1% solution mixed with malathion @ 2.0 ml/ lit. Take 10 ml of this mixture per trap and keep them in 25 different places in one hectare between 6 am to 8 am. Collect and destroy the fallen fruits. Spray neem oil @ 3.0 ml as need based.
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SMS: Rain: June 4, 5 & 8<sup>th</sup>: 1, 2 & 1 mm respectively. Sorghum- stem borer- ETL (10%)-mix sand with carbofuran 3G 17 kg/ha totally 50 kg/ ha - apply in leaf whorls.

### **Puducherry**

To control thrips in paddy nursery, spray Phosphomidon 40 SL 1 ml/litre or Chlorpyrifos 20 EC @ 2 ml/litre.

Summer showers shall be utilized for summer ploughing to increase soil moisture and to control weeds, pest and diseases.

In case of additional irrigation facilities are available; dry crops like Ragi, Thenai, Samai, Panivaragu and Sesame can be cultivated.

### **Karaikal**

Summer showers may be utilized and summer ploughing may be done to increase soil moisture and to control weeds, pest and diseases.

To prevent early shedding of buds and squares in cotton spray 40 ppm NAA (40 mg of Naphthalene Acetic Acid in one litre of water) at 60 and 90 DAS on the crops.

Nipping may be done at 15<sup>th</sup> node for variety and 20<sup>th</sup> node for hybrid cotton to induce sympodial branches development.

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

To control wilt and 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.

### **Ariyalur**

Important crop: Paddy Season: Navarai Summer ploughing can be done by utilizing the rainfall excepted during this week to control→ weeds and insects larva in the soil.

### **Karur**

Rice fallow pulses: Flowering & Maturity stage Summer ploughing can be done by utilizing the rainfall excepted during this week to control→ weeds and insects larva in the soil



### **Nagapattinam**

Crop: Rice, Black gram, Sesame, Sugarcane, Cotton Stage: Rice fallow cotton – Flowering stage For SRI cultivation, prepare 2.5 cent raised bed nursery for 1 ha planting. Broadcast uniformly – 5 kg of pre - germinated seeds over it. Sprinkle water in the bed during morning and evening using rose cane. Maintain standing water in the channel around the beds from 6th day of sowing. Sprinkle 0.5 % urea solution on 9th day after sowing. Stop irrigation two days before pulling out of seedlings. The seedlings will be ready at 14 days after sowing. Rice varieties ADT 36, ADT 43, ADT 45 and ADT 47 are suitable for kuruvai season. Seeds – should be treated with carbendazim (2 g/kg of seeds) or Pseudomonas (10g/kg of seeds) before sowing. For kuruvai nursery, an area of 20 cents can be allotted for planting 1 ha with the application of – FYM or compost @ 1 ton. Before the last puddling, apply 40 kg DAP. For clay soil, 4 kg gypsum and 1 kg DAP/cent can be applied 10 days prior to pulling out of seedlings to avoid root snapping.

### **Perambalur**

Important crop: Paddy Season: Navarai Summer ploughing can be done by utilizing the rainfall excepted during this week to control – weeds and insects larva in the soil.

### **Thanjavur**

Crop: Rice, Black gram, Sesame, Sugarcane, Cotton Stage: Rice fallow cotton – Flowering stage; Rice: Nursery preparation For SRI cultivation, prepare 2.5 cent raised bed nursery for 1 ha planting. Broadcast – uniformly 5 kg of pre - germinated seeds over it. Sprinkle water in the bed during morning and evening using rose cane. Maintain standing water in the channel around the beds from 6 th day of sowing. Sprinkle 0.5 % urea solution on 9th day after sowing. Stop irrigation two days before pulling out of seedlings. The seedlings will be ready at 14 days after sowing. Rice varieties ADT 36, ADT 43, ADT 45 and ADT 47 are suitable for kuruvai season. – Seeds should be treated with carbendazim (2 g/kg of seeds) or Pseudomonas (10g/kg of seeds) before sowing. For kuruvai nursery, an area of 20 cents can be allotted for planting 1 ha with the application – of FYM or compost @ 1 ton. Before the last puddling, apply 40 kg DAP. For clay soil, 4 kg gypsum and 1 kg DAP/cent can be applied 10 days prior to pulling out of seedlings to avoid root snapping

### **Thiruvarur**

Crop: Rice, Black gram, Sesame, Sugarcane, Cotton Stage: Rice fallow cotton – Flowering stage; Rice: Nursery preparation For SRI cultivation, prepare 2.5 cent raised bed nursery for 1 ha planting. Broadcast uniformly – 5 kg of pre - germinated seeds over it. Sprinkle water in the bed during morning and evening using rose cane. Maintain standing water in the channel around the beds from 6th day of sowing. Sprinkle 0.5 % urea solution on 9th day after sowing. Stop irrigation two days before pulling out of seedlings. The seedlings will be ready at 14 days after sowing. Rice varieties ADT 36, ADT 43, ADT 45 and ADT 47 are suitable for kuruvai season. Seeds – should be treated with carbendazim (2 g/kg of seeds) or Pseudomonas (10g/kg of seeds) before sowing. For kuruvai nursery, an area of 20 cents can be allotted for planting 1 ha with the application of – FYM or compost @ 1 ton. Before the last puddling, apply 40 kg DAP. For clay soil, 4 kg gypsum and 1 kg DAP/cent can be applied 10 days prior to pulling out of seedlings to avoid root snapping.

### **Thiruchrapallii**

Crop: Rice, Black gram, Sesame, Sugarcane, Cotton Stage: Rice fallow cotton – Flowering stage; Rice: Nursery preparation For SRI cultivation, prepare 2.5 cent raised bed nursery for 1 ha planting. Broadcast – uniformly 5

kg of pre - germinated seeds over it. Sprinkle water in the bed during morning and evening using rose cane. Maintain standing water in the channel around the beds from 6 th day of sowing. Sprinkle 0.5 % urea solution on 9th day after sowing. Stop irrigation two days before pulling out of seedlings. The seedlings will be ready at 14 days after sowing. Rice varieties ADT 36, ADT 43, ADT 45 and ADT 47 are suitable for kuruvai season. → Seeds should be treated with carbendazim (2 g/kg of seeds) or Pseudomonas (10g/kg of seeds) before sowing. For kuruvai nursery, an area of 20 cents can be allotted for planting 1 ha with the application → of FYM or compost @ 1 ton. Before the last puddling, apply 40 kg DAP. For clay soil, 4 kg gypsum and 1 kg DAP/cent can be applied 10 days prior to pulling out of seedlings to avoid root snapping

### Coimbatore

Blocks	Sugar cane	Banana	Vegetables (Tomato, Bhenidi, Brinjal)	Rice	Sesame	Sorghum	Turmeric	Irrigated bajra
Thondamuthur	V	6-9 months	V-P	Pi	F	V	LP	S
Karamadai	V	6-9 months	V-P	Pi	F	V	LP	S
Sulur	V	6-9 months	V-P	Pi	F	V	LP	S
Sultanpet	V	6-9 months	V-P	Pi	F	V	LP	S
Pollachi	V	6-9 months	V-P	Pi	F	V	LP	S
P.N Palayam	V	6-9 months	V-P	Pi	F	V	LP	S
Kinathukadavu	V	6-9 months	V-P	Pi	F	V	LP	S
Annur	V	6-9 months	V-P	Pi	F	V	LP	S
Madukarai	V	6-9 months	V-P	Pi	F	V	LP	S
Annaimalai	V	6-9 months	V-P	Pi	F	V	LP	S

V- Vegetative; V- P - Vegetative & Picking; Pi - Panicle initiation; F - Flowering; LP - Land preparation; S - Sowing

#### Agro Advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

Considering the anticipated rainfall, weeding may be done in groundnut crop of Pollachi Taluk.

Provide adequate drainage to the recently planted turmeric against rhizome rot.

Rainfall is anticipated, proper drainage facility may be provide in all irrigated crops.

Avoid stagnation of water around cattle shed to prevent mosquito multiplication.

### SMS advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

### Erode

Taluks	Sugar cane	Banana	Vegetables (Tomato, Bhendi, Brinjal)	Rice	Sesame	Sorghum	Turmeric	Irrigated bajra
Ammapet	V	6-9 months	V-P	Pi	F	V	LP	S
Bhavani	V	6-9 months	V-P	Pi	F	V	LP	S
Erode	V	6-9 months	V-P	Pi	F	V	LP	S
Perundurai	V	6-9 months	V-P	Pi	F	V	LP	S
Sathyamangalam	V	6-9 months	V-P	Pi	F	V	LP	S
Nambiyur	V	6-9 months	V-P	Pi	F	V	LP	S
Gobichettipalayam	V	6-9 months	V-P	Pi	F	V	LP	S

V- Vegetative; V- P - Vegetative & Picking; Pi - Panicle initiation; F - Flowering; LP - Land preparation; S - Sowing

### Agro Advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

Provide adequate drainage to the recently planted turmeric against rhizome rot.

Rainfall is anticipated, proper drainage facility may be provide in all irrigated crops.

Avoid stagnation of water around cattle shed to prevent mosquito multiplication.

### SMS advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

### Tiruppur

Blocks	Tapioca	Sugar cane	Banana	Vegetables (Tomato, Bhendi, Brinjal)	Pulses	Rice	Maize
Avinashi	V-H	P	6-9 months	V-P	H	H-N-T	M
Kankayam	V-H	P	6-9 months	V-P	H	H-N-T	M
Madathukulam	V-H	P	6-9 months	V-P	H	H-N-T	M
Gudimangalam	V-H	P	6-9 months	V-P	H	H-N-T	M
Palladam	V-H	P	6-9 months	V-P	H	H-N-T	M
Dharapuram	V-H	P	6-9 months	V-P	H	H-N-T	M
Udumalpet	V-H	P	6-9 months	V-P	H	H-N-T	M

V-H- Vegetative & Harvest; P- Early season planting; V- P- Vegetative & Picking; H-N-T- Harvest, Nursery & Transplanting; M- Maturity

#### Agro Advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

Provide adequate drainage to the recently planted turmeric against rhizome rot.

Rainfall is anticipated, proper drainage facility may be provide in all irrigated crops.

Avoid stagnation of water around cattle shed to prevent mosquito multiplication.

#### SMS advisory

Considering the rainfall with high wind speed, provide adequate propping to banana aged more than 5 months and early season sugarcane.

