



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

DISTRICT LEVEL

Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 032 /2018

For the period 0830 IST, 24th April 2018 to
0830 IST, 27th April 2018

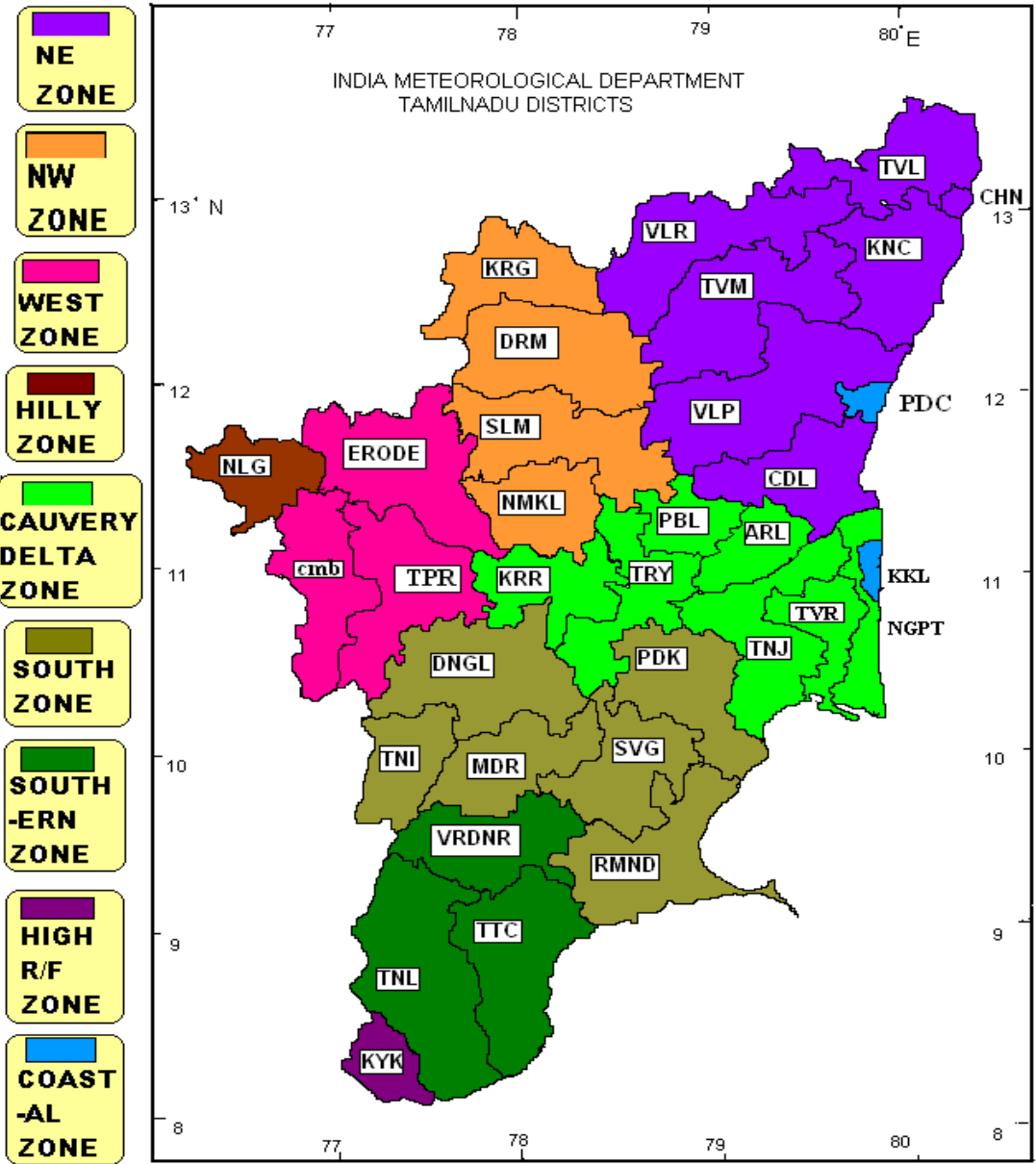
Issued on Tuesday, 24th April 2018

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 20.04.18 to 23.04.18 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 21°C – 26°C during the period.

Minimum temperature of range 25°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)	20.04.18,21.04.18,22.04.18 & 23.04.18	Tamil Nadu
Dry	20.04.18,21.04.18,22.04.18 & 23.04.18	Puducherry

Chief Amounts of Rainfall (in cms):-

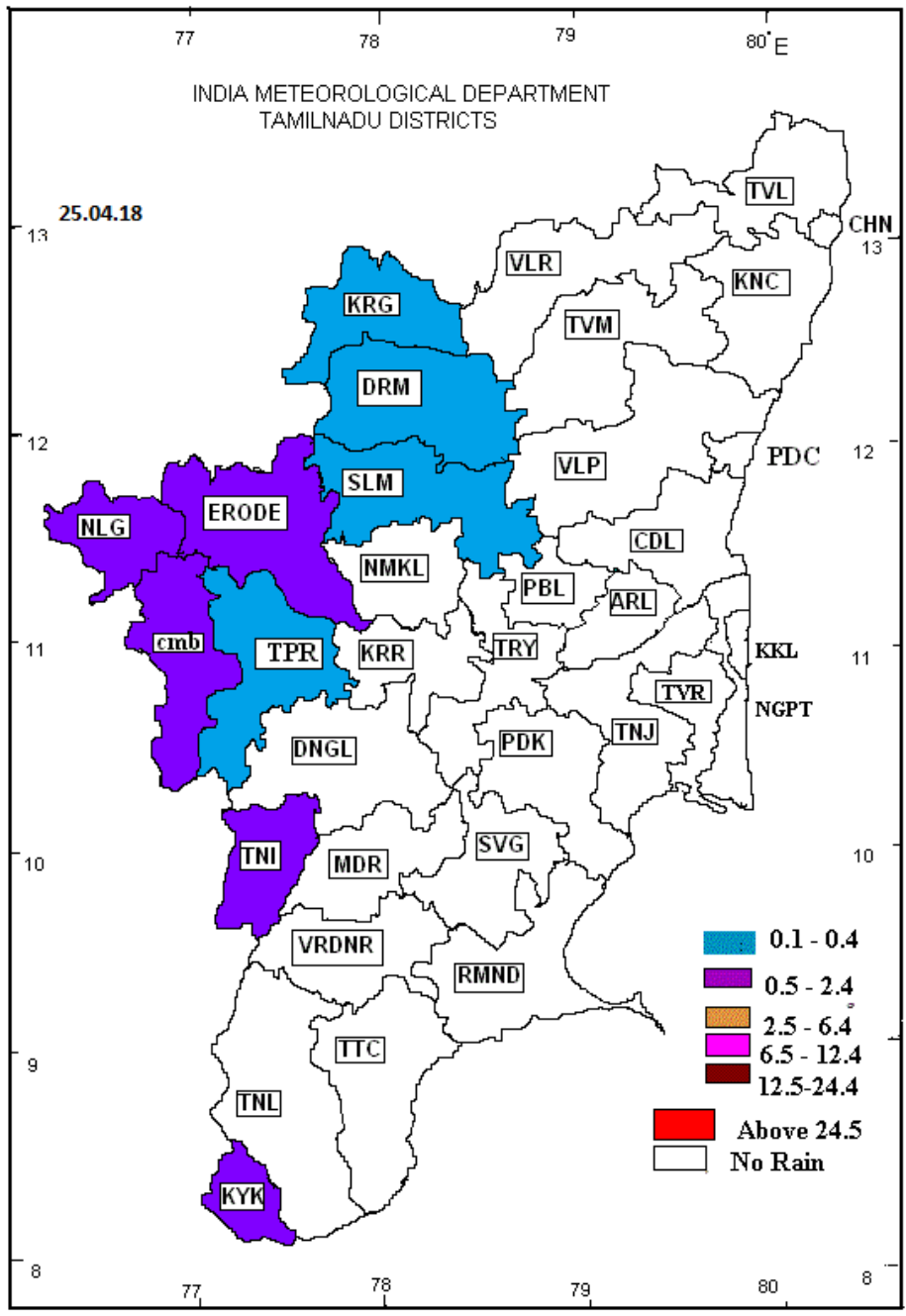
20.04.18: Nil

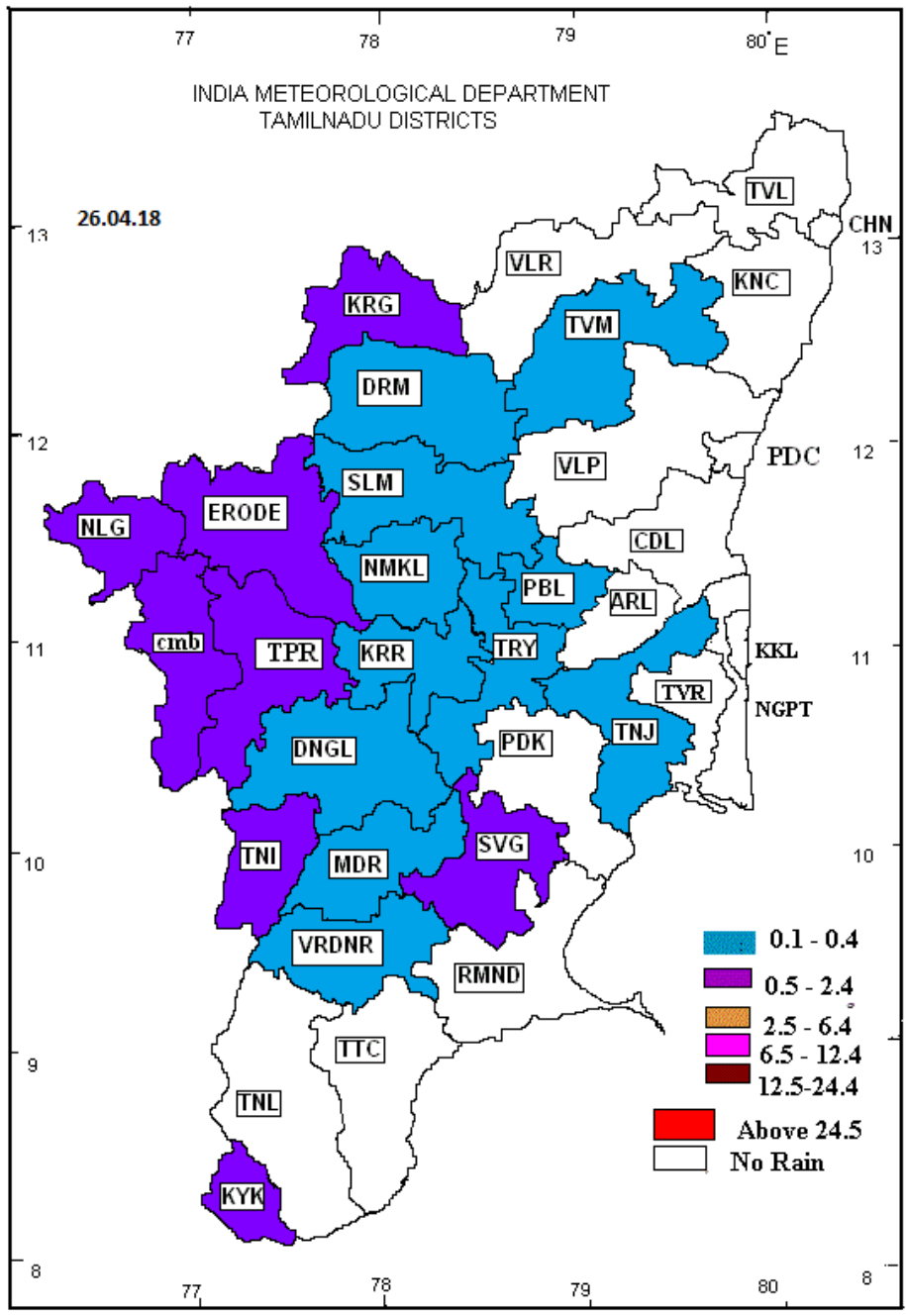
21.04.18: Pennagaram (Dharmapuri Dist) 4, Periyanaickenpalayam (Coimbatore Dist) 3, Hogenekal (Dharmapuri Dist) 2, Thali (Krishnagiri Dist), Rayakottah (Krishnagiri Dist), G Bazar (Nilgiris Dist), Sankaridurg (Salem Dist) 1 each.

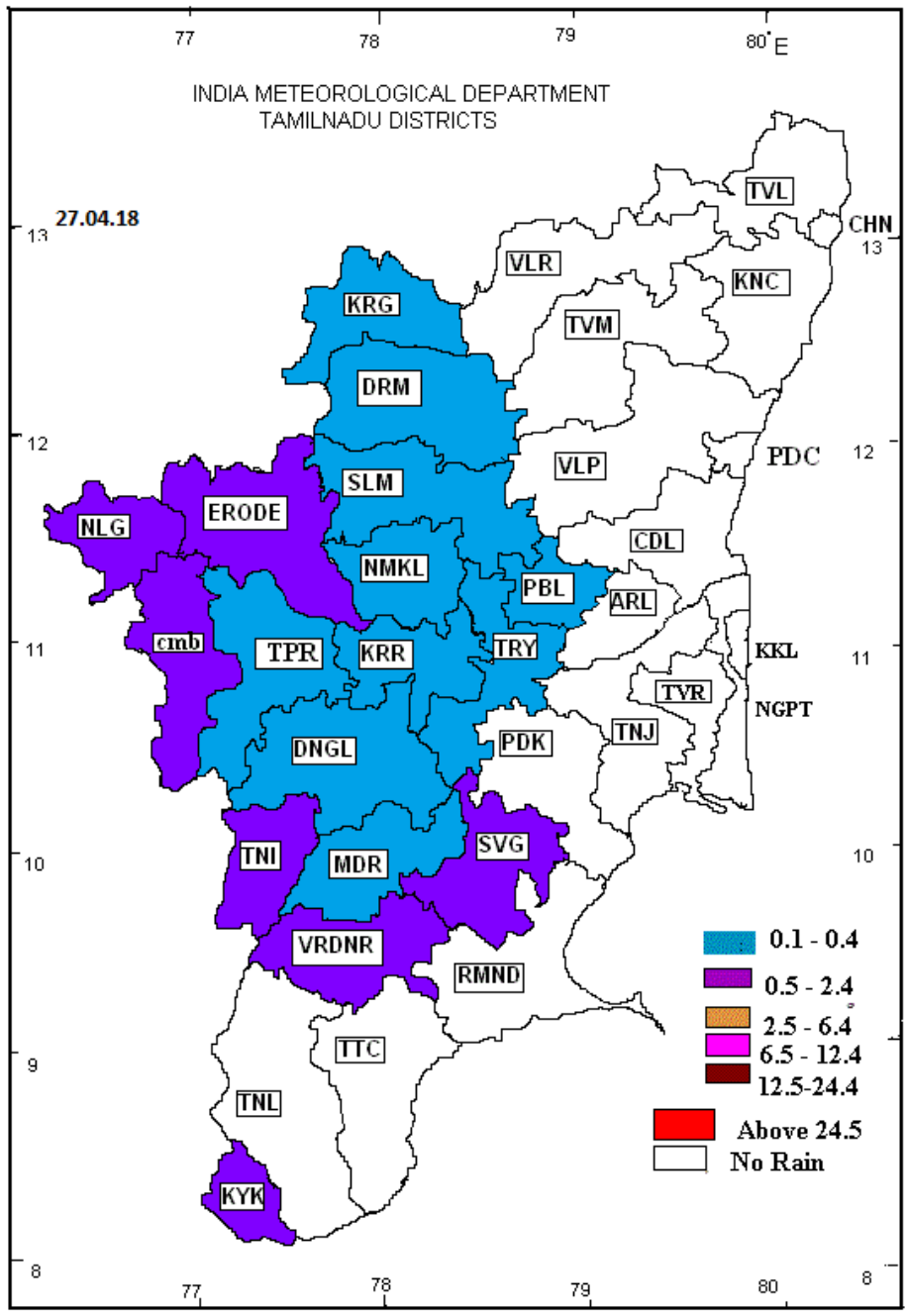
22.04.18: Omalur (Salem Dist) 1.

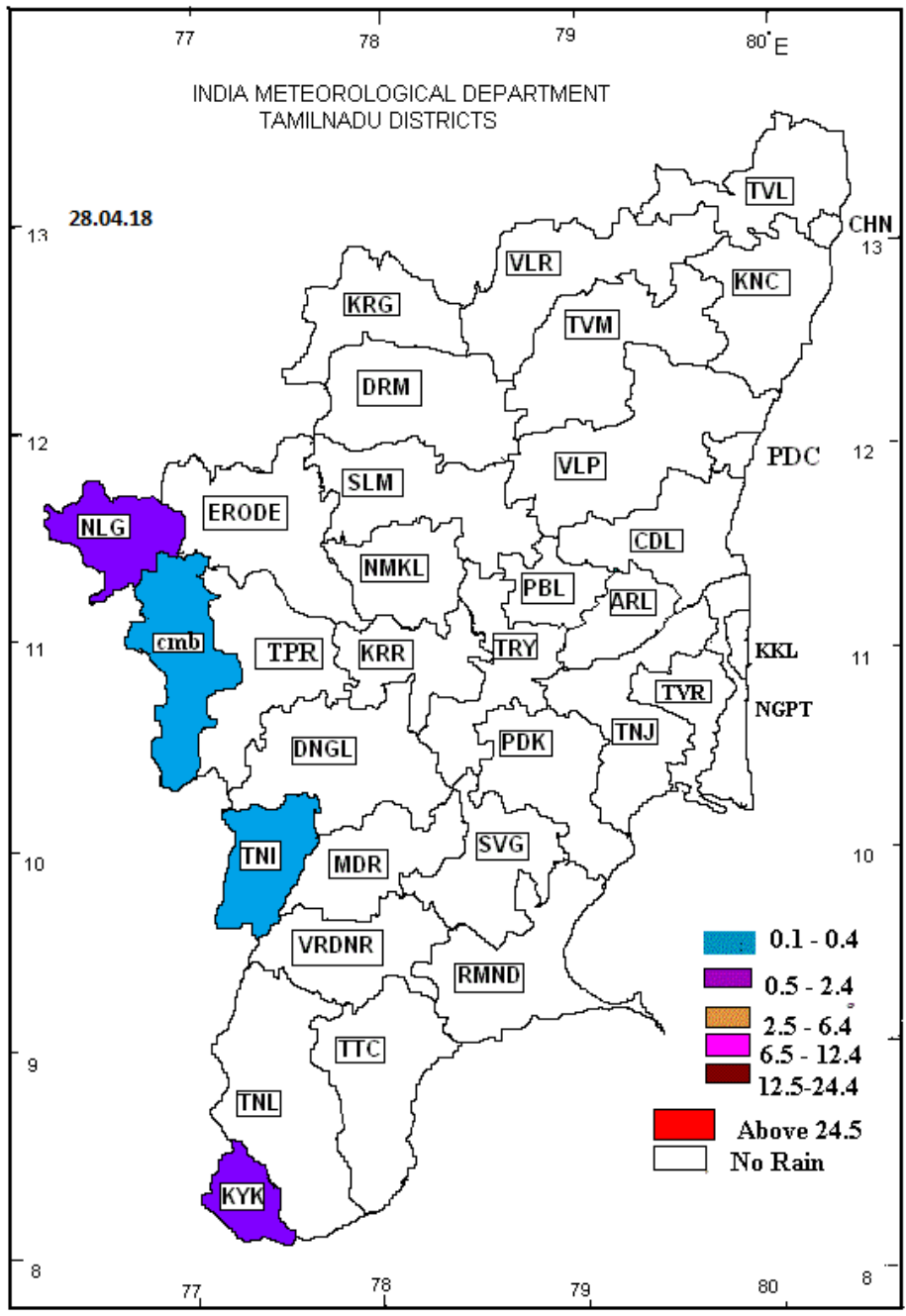
23.04.18: Uthagamandalam (Nilgiris Dist) 3, Kothagiri (Nilgiris Dist), Ketti (Nilgiris Dist), Mettupalayam (Coimbatore Dist) 1 each.

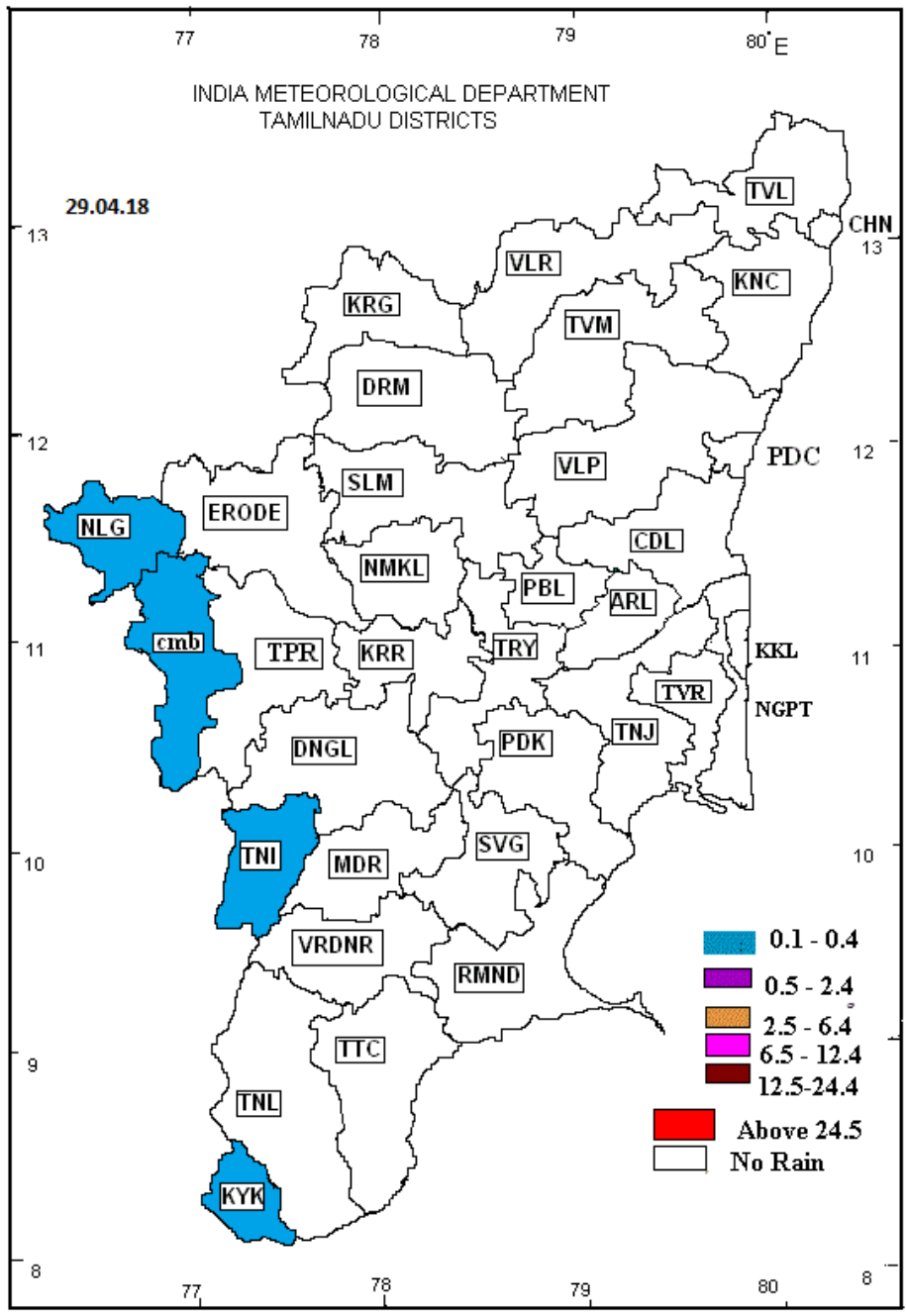
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 24.04.2018
VALID FOR THE NEXT 5 DAYS**











Districtwise Agromet Advisories

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

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.

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. 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 stroke.

During day time farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 time to reduce heat stress. Avoid grazing of animals near ponds and lakes to avoid fluke infestation.

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

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

Nilgiris

Light rainfall is expected in the Nilgiris district for next five days Due to high humidity and high day time temperature conditions prevailing, anthracnose disease is spreading in beans. To control, spray fungicide Carbendazim @ 2 g per litre of water. While applying dolomite for all crops, dolomite should not be mixed with other chemical fertilizers This is right season for planting tree crops. While planting, apply 50 grams of VAM per pit.

Karaikal

SMS Advisory:

During next five days the weather will be cloudy and dry. Weather based Agro-Advisories 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.

Puducherry

During next five days the weather will be cool and partly cloudy. Weather based Agro-Advisories 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.

Ariyalur, Nagapattinam, Perambalur & Thiruvapur

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.

Karur, Thanjavur & Thiruchiapalli

Crop: Rice, blackgram, greengram and cotton Stage: Rice fallow pulses: Maturity stage; Cotton: Flowering stage Summer ploughing can be done by utilizing the rainfall expected during this week to control weeds and insects larva in the soil. 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.

Thoothukudi

Crop/ Ecosystem Stage / Activities Advisories Temperature and 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. Vaccine for foot and mouth disease to the cattle is advised as prophylactic measure by utilizing the facility from nearby veterinary hospital. 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. Prevailing weather condition is favorable for stem weevil incidence. Spraying of Monocrotophos 36 WSC @1 ml/ lit of water. 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. 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: 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. Vaccine for foot and mouth disease to the cattle is advised as prophylactic measure by utilizing the facility from nearby veterinary hospital. 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: Nil. Animal husbandry- Provide cool drinking water and green fodder and spray water on gunny bags surrounding the cattle shed.

Virudhunagar

Crop/ Ecosystem Stage / Activities Advisories High wind speed and 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. Vaccine for foot and mouth disease to the cattle is advised as prophylactic measure by utilizing the facility from nearby veterinary hospital. 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: 26 & 27.4.18: 1 & 5 mm. Rainfall- Summer ploughing is advised by utilizing the unexpected rainfall.

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

Drizzling rainfall is expected. Normally summer rain accompanied with squally wind. Therefore stacking may be given to five months and above banana crop. Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana. High Thermal Humidity Index is observed due to increasing temperature and humidity. Animals may suffer with heat stress and water thrust and hence, provide adequate drinking water and water spray to animals.

Prevailing weather is favourable for the early shoot borer attack in sugarcane hence farmers are requested to do irrigation frequently and do mulching if rain is not occurred.

SMS advisory

Due to high Thermal Humidity Index, animals may suffer with heat stress and water thrust. Provide adequate drinking water and water spray to animals.

Erode

Taluks	Sugar cane	Cumbu	Turmeric	Millets	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

Drizzling rainfall is expected. Normally summer rain accompanied with squally wind. Therefore stacking may be given to five months and above banana crop. Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana. High Thermal Humidity Index is observed due to increasing temperature and humidity. Animals may suffer with heat stress and water thrust and hence, provide adequate drinking water and water spray to animals. Prevailing weather is favourable for the early shoot borer attack in sugarcane hence farmers are requested to do irrigation frequently and do mulching if rain is not occurred. SMS advisory

Due to high Thermal Humidity Index, animals may suffer with heat stress and water thrust. Provide adequate drinking water and water spray to animals.

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

Drizzling rainfall is expected. Normally summer rain accompanied with squally wind. Therefore stacking may be given to five months and above banana crop.

Since drizzling rainfall is expected irrigation may be done according to soil moisture especially coconut and banana.

High Thermal Humidity Index is observed due to increasing temperature and humidity. Animals may suffer with heat stress and water thirst and hence, provide adequate drinking water and water spray to animals.

Prevailing weather is favourable for the early shoot borer attack in sugarcane hence farmers are requested to do irrigation frequently and do mulching if rain is not occurred.

SMS advisory

Due to high Thermal Humidity Index, animals may suffer with heat stress and water thirst. Provide adequate drinking water and water spray to animals.

Namakkal , Salem, Dharmapuri & Krishnagiri

A) Special Weather Advisory Bulletin for Poultry Farming:

For next three days, chance of rainfall is less. Elevated wind speed will give some relief from maximum temperature during late evening hours. Though the maximum day time temperature in the district hang around 39.0°C (102.2°F), at times, it may reach a new high of 40.0°C (104.0°F). Hence, farm management should be followed in such a way that it could improve bird's adaptation to high temperature. Further, to manage lower egg weight and poor feed intake, add minimal level of vegetable oils in the feed.

Special Agro advisory from Krishi Vigyan Kendra, Namakkal:

2. To prevent heat stress in tomato crop during this summer months, it is instructed to sow agathi or chithagathi or castor seed in ridges and around the tomato field at 5 – 6 feet spacing.

Dindigul

Important Crops : Lemon & Animal husbandry Due to prevailing weather condition there is incense of Fruit sucking moth in Acid lime. Keep the field clean without weed. Bait with fermented molasses plus Malathion 50 EC at the rate of 1 ml/lit. Bag the fruits with polythene bags punctured at the bottom. To control, apply smoke and set up light traps or food lures (pieces of citrus fruits). During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Madurai

Important Crops : Banana & (Animal husbandry) Due to prevailing weather conditions, there is incense of nematode in Banana. The nematode affect the root and corm . To manage this pre-treat the suckers with 40 g Carbofuran 3G. If pre-treatment is not done, apply 40 g of Carbofuran around each plant one month after planting. Then grow Sunhemp after 45th day and incorporate one month later. Press mud application @ 15 t per ha one month after planting and neem cake 1.5 t per ha one month after planting will also control the nematode infestation During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Pudukkottai

Important Crops : Brinjal & (Animal husbandry) Prevailing weather condition the Brown leaf hopper infestation are slightly found in Brinjal. The symptoms are, reduction in size of leaves, Shortened petioles, Excessive growth of branches general stunting of plants, Conversion of floral parts into leafy structures, Rare Fruiting. Remove the infected plants and destroy them. Spray any one of the following Methyl parathion 50gms /1 ltr or Dimethoate 30gms/1 ltr. As preventive measure, before transplantation dip the seedlings in 20gms Carbofuran 50 STD solution. During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Ramanathapuram

Important Crops : Jasmine & (Animal husbandry) Prevailing hot weather condition there are incense of Leaf Webber in Jasmine. This caterpillar built elaborate network of webbing of leaves, especially in the lower portion causing severe injury. Caterpillar feeds on the leaves by scrapping the chlorophyll. The infestation severe in terminal shoots during dry and sunny weather. To control this, collect and destroy the damaged leaves along with larvae. Use light trap to attract and kill the adult moths. Spray 5% of Neem seed extract or Malathion 50EC 2ml/lts. Properly prune and maintain the field hygienically. During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Sivagangai

Important Crops : Sugarcane & (Animal husbandry) Prevailing hot weather water management is important in sugarcane cultivation. To manage this Soak the setts in lime solution (80 kg Kiln lime in 400 lit) for one hour. Plant in deep furrows of 30 cm depth. Spray potash and urea each at 2.5 per cent during moisture stress period at 15 days interval. Spray Kaolin (60 g in 1 ltr. of water) to alleviate the water stress. Under water scarcity condition, alternate furrow and skip furrow method is beneficial. During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Theni

Important Crops : Mango & (Animal husbandry) Due to prevailing weather conditions the occurrence of Gaint mealybug found in Mango. It affects the inflorescence of leaves and turn to drying. Presence of pinkish nymphs and adult mealy bugs on fruits and fruit stalk. Release of Australian ladybird beetle, *Cryptolaemus montrouzieri* @ 10/tree. Remove weeds and grasses by ploughing. If necessary apply methyl parathion 1ml/lit, chlorpyrifos 20EC 2.5 ml/l lit. During the summer season, snails, germs and larvae found in the dry pond water can cause health damages to the cattle, so farmers are advised, not to allow their cattle to drink water from dry / dirty water ponds.

Kanyakumari

S. NO	CROP	STAGES	ADVISORIES
1.	There are possibilities of 31 mm rainfall distributed during forthcoming five days. The maximum temperature will shoot to 34 ^o C - 36 ^o C and relative humidity will range from 65 -80percent.		
2.	Paddy	Post-harvest	As rains are expected, the drying of grains in open can be avoided.
3.	Banana	Shooting	High wind velocity is anticipated and so it is advised to provide mechanical support to banana crop to avoid lodging.
4.	Coconut	Juvenile period, pre-bearing and bearing stage.	If the attack of mite is noticed, root feeding may be done with Azadiractin 50% formulation 7.5 ml in 7.5 ml water.
5.	Pepper	All stages	The runner shoots may be protected from spreading on the ground by coiling it on supports.

SMS Advisory

If the attack of mite is noticed, root feeding may be done with Azadiractin 50% formulation 7.5 ml in 7.5 ml water in coconut tree.

