



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

DISTRICT LEVEL

Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 049 /2017

For the period 0830 IST, 20th June 2017 to
0830 IST, 23rd June 2017

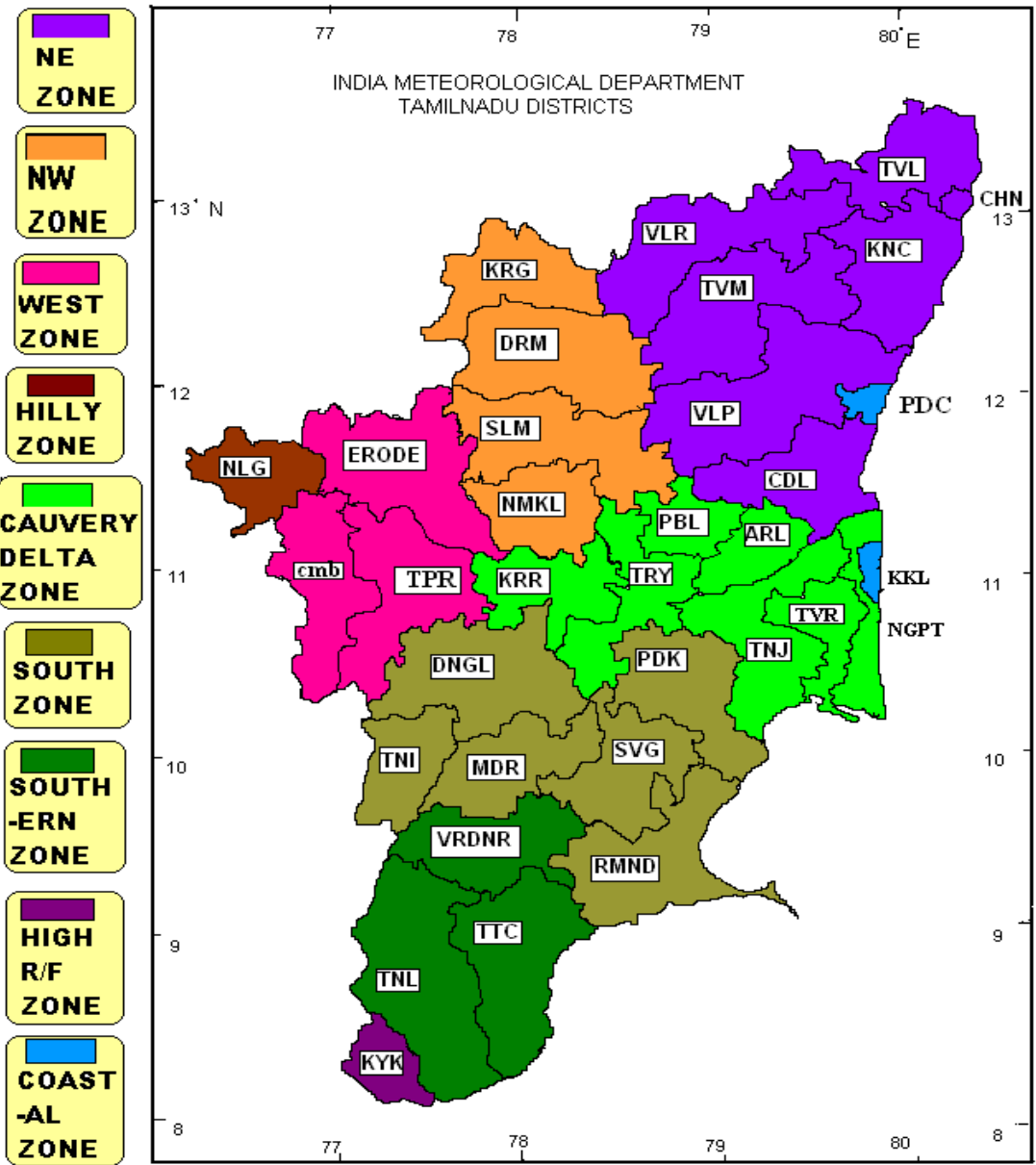
Issued on Tuesday, 20th June 2017

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 16.06.17 to 19.06.17 for the State of Tamilnadu & Puducherry

Temperature:

Maximum Temperature of range 30°C – 41°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 19°C – 24°C during the period.

Minimum temperature of range 23°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) | 17.06.17 | Tamil Nadu |
| Isolated (Isolated Places) | 16.06.17,18.06.17&19.06.17 | Tamil Nadu |
| Dry | 16.06.17,17.06.18,18.06.17&19.06.17 | Puduchery |

Chief Amounts of Rainfall (in cms):-

16.06.17: Tirupathur (Sivaganga Dist) 5, Marungapuri (Trichy Dist) 4, Kothagiri (Nilgiris Dist), Arupukottai (Virudhunagar Dist), Melur (Madurai Dist), Tirukoilur (Villupuram Dist), Keeranur (Pudukkottai Dist), Tiruchengode (Namakkal Dist), Kallakurichi (Villupuram Dist), Tirupuvanam (Sivaganga Dist), Illuppur (Pudukkottai Dist), Tirumayam (Pudukkottai Dist) 2 each, Pudukkottai (Pudukkottai Dist), Parangipettai (Cuddalore Dist), Karaikudi (Sivaganga Dist), Chittampatti (Madurai Dist), Arantangi (Pudukkottai Dist), Ulundurpet (Villupuram Dist), Arimalam (Pudukkottai Dist), Sethiathope (Cuddalore Dist), Adirampatnam (Thanjavur Dist) 1 each.

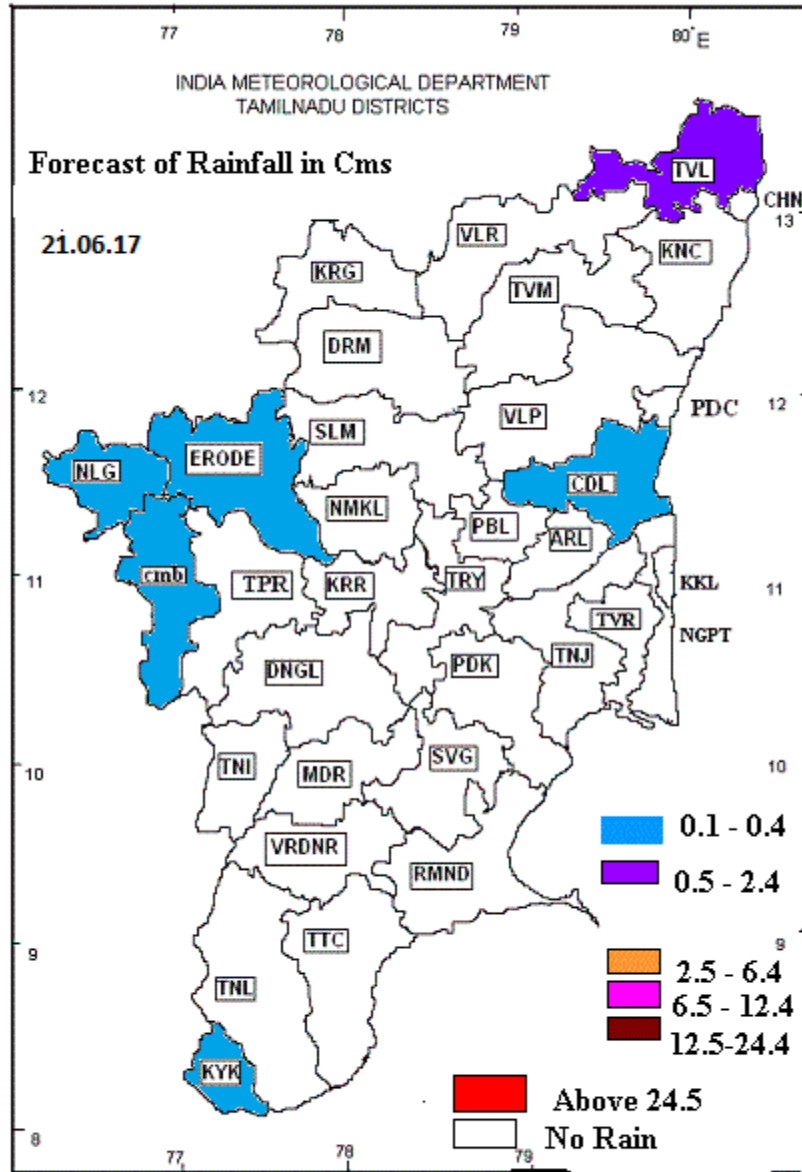
17.06.17 : Tirupuvanam (Sivaganga Dist) 8, Sivaganga (Sivaganga Dist), Tirumangalam (Madurai Dist) 4 each, Tirupathur (Sivaganga Dist), Chittampatti (Madurai Dist), ChiDambaram (Cuddalore Dist), Gandarvakottai (Pudukkottai Dist), Keeranur (Pudukkottai Dist), Manamelkudi (Pudukkottai Dist) 3 each, Melur (Madurai Dist), Valangaiman (Tiruvarur Dist), Tondi (Ramanathapuram Dist), Tiruvadana (Ramanathapuram Dist), Sholavandan (Madurai Dist), Karaikudi (Sivaganga Dist), Marungapuri (Trichy Dist), Kumbakonam (Thanjavur Dist), Papanasam (Thanjavur Dist), Parangipettai (Cuddalore Dist), Vallam (Thanjavur Dist) 2 each, Illuppur (Pudukkottai Dist), R.s.mangalam (Ramanathapuram Dist), Poonamalle arg (Tiruvallur Dist), Thanjavur pto (Thanjavur Dist), Airport Madurai (Madurai Dist), Neyveli AWS (Cuddalore Dist), Madurai south (Madurai Dist), Muthupet (Tiruvarur Dist), Arimalam (Pudukkottai Dist), Orthanad (Thanjavur Dist), Tirumayam (Pudukkottai Dist), Perungalur (Pudukkottai Dist), Mannargudi

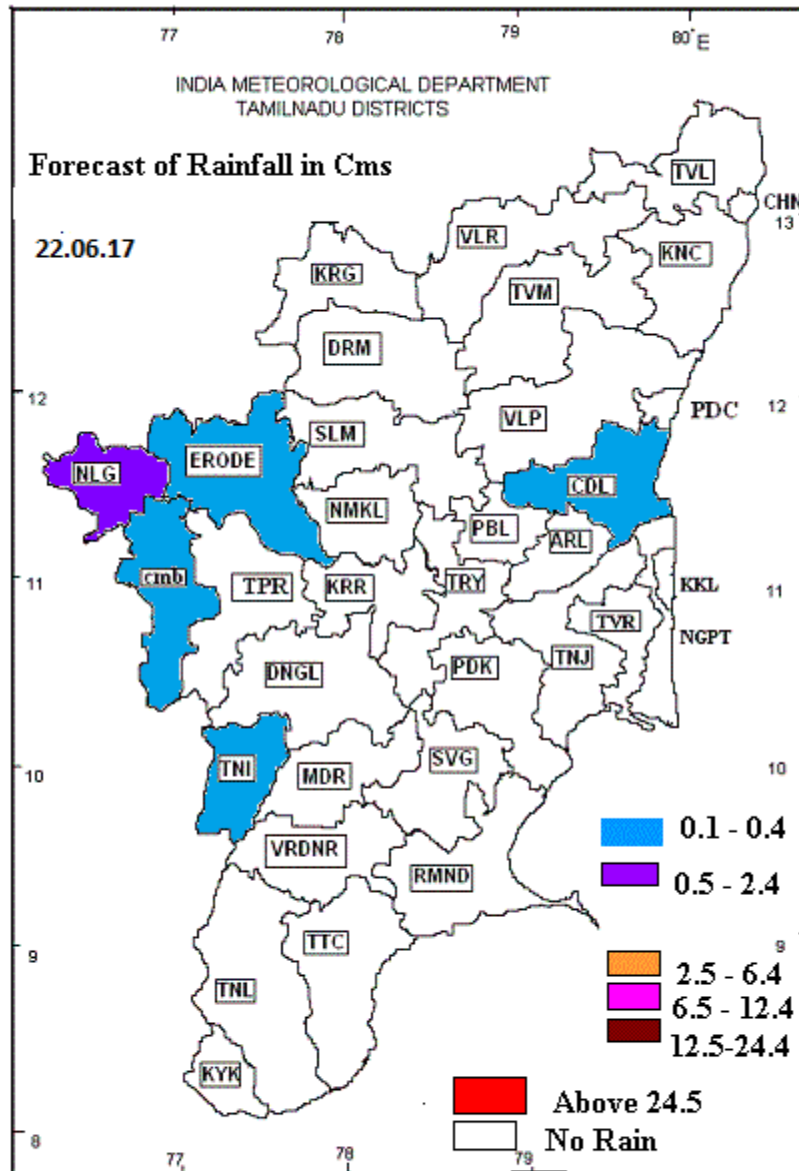
(Tiruvarur Dist), Nannilam (Tiruvarur Dist), Anaikarachatram(KolliDam (Nagapattinam Dist), Kollimalai arg (Namakkal Dist), Peravurani (Thanjavur Dist), Thanjavur (Thanjavur Dist), Arantangi (Pudukkottai Dist), Vedaranyam (Nagapattinam Dist), Srimushnam (Cuddalore Dist), Sethiathope (Cuddalore Dist), Pandavaiyar head (Tiruvarur Dist), Adirampatnam (Thanjavur Dist) 1 each.

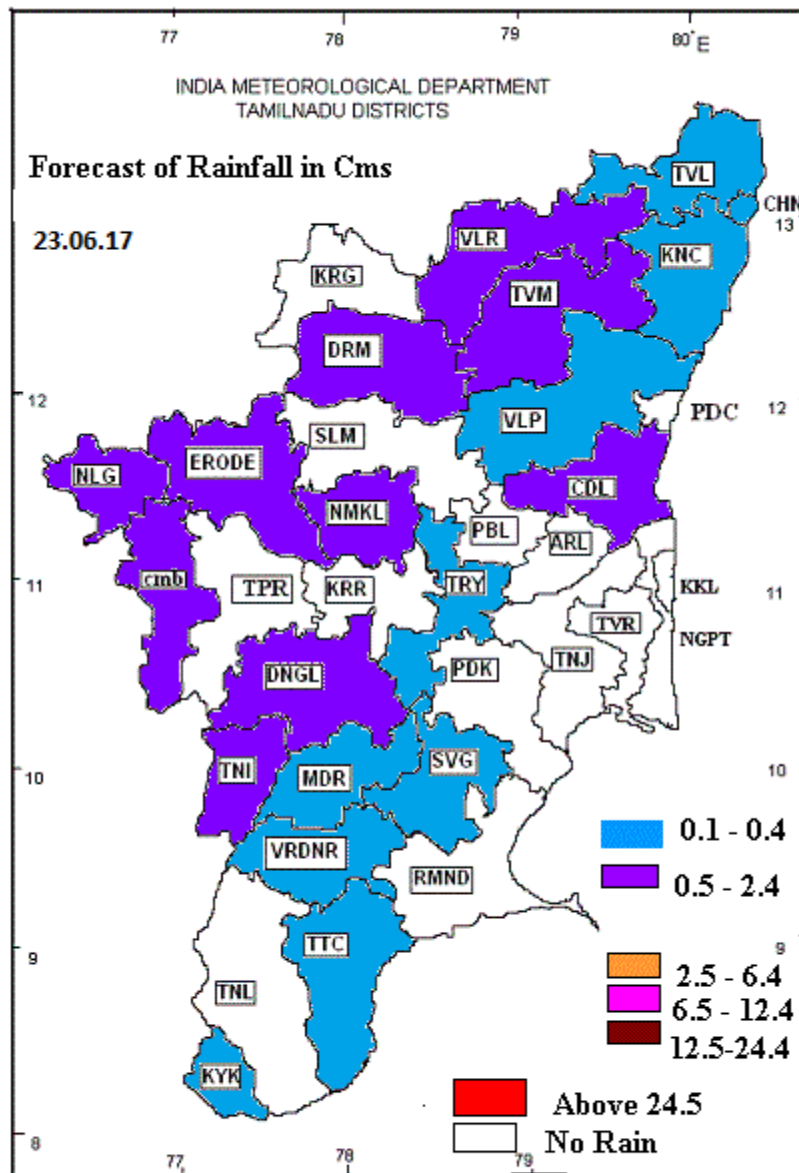
18.06.17 : Virudhunagar (Virudhunagar Dist) 3, Kodaikanal (Dindigul Dist) 1.

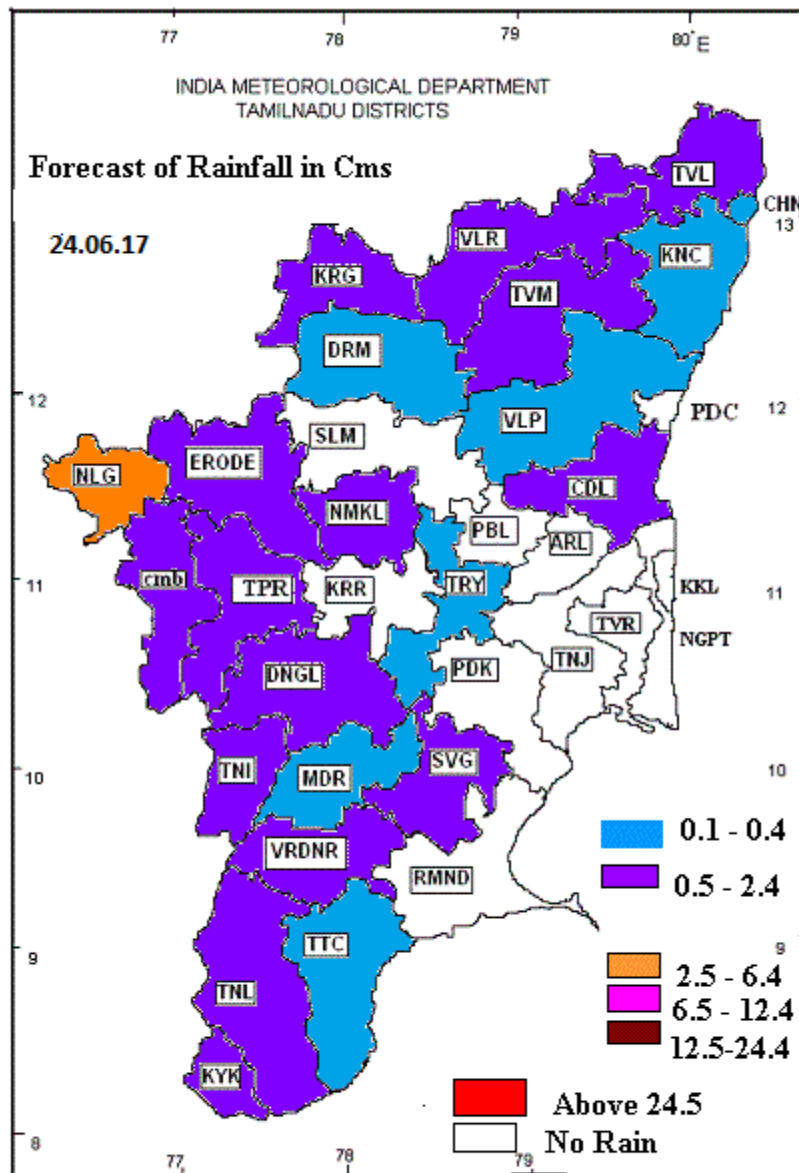
19.06.17: Red hills (Tiruvallur Dist) 2, Cholavaram (Tiruvallur Dist) 1.

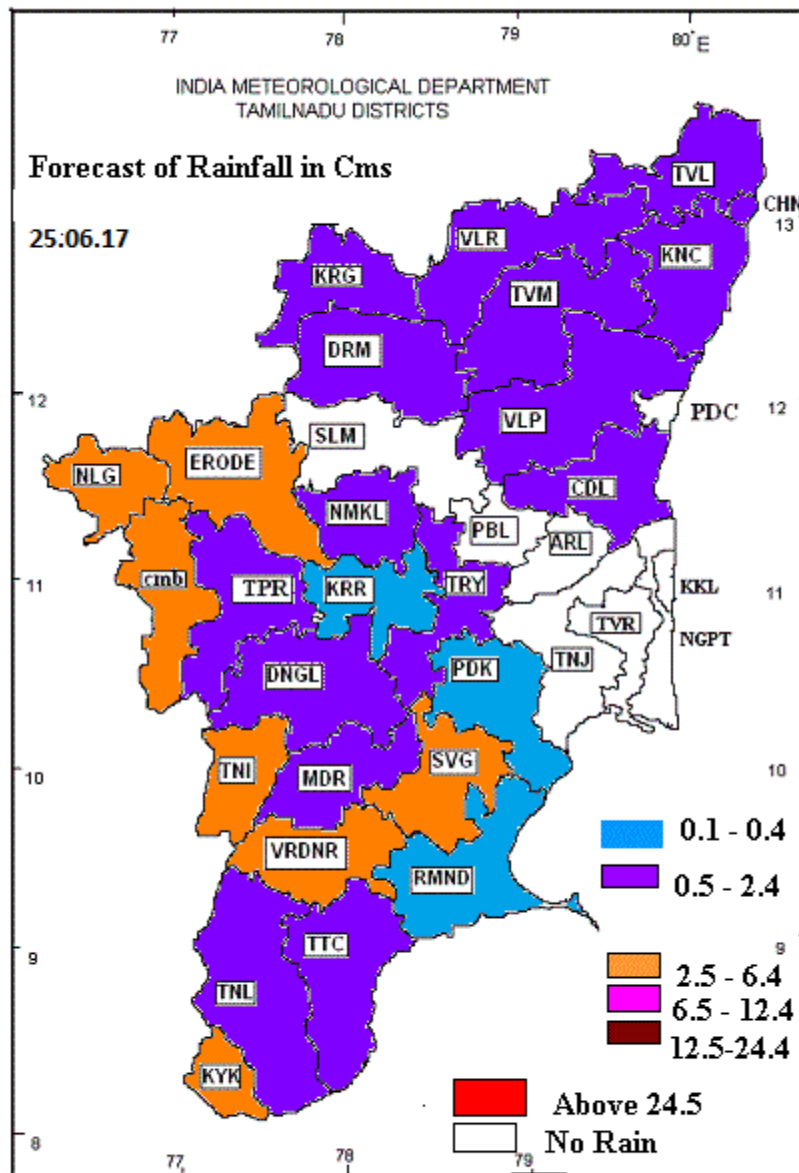
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 20.06.2017
VALID FOR THE NEXT 5 DAYS**











Districtwise Agromet Advisories

Chennai

Livestock:

Light rainfall may be expected on 24.06.2017 and 25.06.2017.

Feeders should be raised in poultry shed between 10 am to 5 pm to avoid heat stroke.

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.

Sheep and goat shed remove 3-4 inches of mud floor and replace it with new mud to avoid infection.

Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor.

Backyard poultry farmer advised to vaccinate against ranikhet disease.

Agriculture (Krishi Vigyan Kendra, Kattupakkam)

Imp. Crops: Rice, Sugarcane and Groundnut

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.

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.

Kancheepuram, Vellore, Villupuram & Thiruvannamalai

Livestock:

Light rainfall may be expected from 23.06.2017 to 25.06.2017.

Feeders should be raised in poultry shed between 10 am to 5 pm to avoid heat stroke.

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.

Sheep and goat shed remove 3-4 inches of mud floor and replace it with new mud to avoid infection.

Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor.

Backyard poultry farmer advised to vaccinate against ranikhet disease.

Agriculture (Krishi Vigyan Kendra, Kattupakkam)

Imp. Crops: Rice, Sugarcane and Groundnut

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Dimethoate 30 EC @ 500 ml/ha or *Azadirachtin* 0.03% EC @ 500 ml/ha.

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.

Cuddalore

Livestock:

Light rainfall may be expected on next five days.

Feeders should be raised in poultry shed between 10 am to 5 pm to avoid heat stroke.

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.

Sheep and goat shed remove 3-4 inches of mud floor and replace it with new mud to avoid infection.

Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor.

Backyard poultry farmer advised to vaccinate against ranikhet disease.

Agriculture

Imp. Crops: Rice, Sugarcane and Groundnut

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.

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.

Thiruvallur

Livestock:

Light rainfall may be expected on 21.06.2017, 23.06.2017 to 25.06.2017.

Feeders should be raised in poultry shed between 10 am to 5 pm to avoid heat stroke.

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.

Sheep and goat shed remove 3-4 inches of mud floor and replace it with new mud to avoid infection.

Sheep and goat should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor.

Backyard poultry farmer advised to vaccinate against ranikhet disease.

Agriculture (Krishi Vigyan Kendra, Kattupakkam)

Imp. Crops: Rice, Sugarcane and Groundnut

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.

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.

Karaikal

To control pink bollworm in cotton spray Triazophos 40 EC @ 2 litre / ha

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.

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.

To control mealy bug in cotton spray Thiamethoxam 25 WG @ 100 g/ha or Dimethoate 30 EC 2 ml /litre

Puducherry

To reduce the growth of algae in paddy fields Copper Sulphate @ 500 g in muslin cloth may be placed in the outlet of bore water that is irrigated to the field.

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.

Nilgiris

Light to moderate rainfall is expected in the district for next five days. During rainy days, drainage facilities should be created to drain excess water. To control rubberisation in garlic, avoid the use of urea and use ammonium sulphate as nitrogen fertilizer. Due to cloudy weather, to manage leaf blight disease in carrot, foliar spray of Zineb + hexaconazole @ 1.5 g/litre of water can be done.

Thoothukudi, Virudhunagar & Thirunelveli

| Crop/ Farming system | Stage / Activities | Advisories |
|----------------------------|--------------------|--|
| Cotton | Boll maturity | In the prevailing weather condition stem weevil occurrence is noticed. To managed the stem weevil, spray Carbofuran 3%CG 33.3 kg/ha. Do earthing up when soil moisture is optimum in order to prevent stem weevil incidence. |
| Brinjal | Fruiting stage | The prevailing weather is conducive for the incidence of shoot and fruit borer . Remove the affected terminal shoots showing boreholes. Remove the affected fruits and destroy. Spray Chlorpurifos 20% EC @ 1.0 ml/ lit. As moderate cloud cover, light rainfall and moderate humidity expected in the coming days, lace wing bug incidence may occur. To control this bug spray Dimothoate 30% EC @ 1 ml/ lit of water. |
| Cucumber | White fly | In the prevailing weather condition is conducive for white fly incidence. For controlling this pest spray 5% neem extract kernel. |
| Livestock | Cattle and bullock | Supplementation of mineral mixture @ 50 grams along with drinking water to reduce heat stress of cattle. |

SMS:

Rain: 23.6.17- 25.6.17: 4, 4& 10 mm. Brinjal- lace wing bug- to control spray Dimothoate 30% EC @ 1 ml/ lit of water.

Salem,Namakkal,Dharmapuri & Krishnagiri

For next three days, the sky will be generally cloudy with chance of mild rainfall at one or two places. Maximum and minimum temperature will be 36.0°C (96.8°F) and 25.0°C (77.0°F) respectively. Wind speed will be around 6 km/hour, mostly from west direction. Relative humidity will be in the range of 40 - 70%.

Though southwest monsoon is subdued over the zone, general cloudiness and slightly elevated wind will prevail. Elevated day time temperature will not stay long. Hence, birds will not experience heat stress and the weather conditions are favorable for normal egg production. Mycotoxins occurrences are observed in sunflower meal and newly arrived maize. Hence, use these feed ingredients with caution.

Special Agroadvisory from Krishi Vigyan Kendra, Namakkal:

To control the occurrence of damping and root rot in groundnut, soil drenching of Difenconazol 1ml or Carbendazim 1g/liter of water can be done.

Dindigul

Weather Based Agro-Advisories : (Important Crops : Vegetables, Groundnut) Prevailing current weather in coconut the following irrigation schedule based on pan evaporation for drip irrigation. Most common in June and July, October to December if the coconut groove's water source condition is normal irrigate through drip 45 lit / day, Moderate water scarcity condition 30 lit/ day and Severe water scarcity condition 15 lit / day. Prevailing weather condition the correct time for application of fertilizers in Bottle guards cultivation. Farmers advise to apply 10 kg of FYM (20 t/ha), 100 g of NPK 6:12:12 mixture/pit as basal and 10 g of N/pit 30 days after sowing. Apply Azospirillum and Phosphobacteria 2 kg/ha and Pseudomonas 2.5 kg/ha along with FYM 50 kg and neem cake @ 100 kg before last ploughing. Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease.

Madurai

Weather Based Agro-Advisories : (Important Crops : Paddy, Pulses) Prevailing weather condition the incense of Bacterial Leaf Blight in paddy. Seedling wilt or kresek, Lessions turn yellow to white as the disease advances Spray fresh cowdung extract 20% twice (starting from initial appearance of the disease and another at fortnightly interval) and Neem oil 60 EC 3% (or) NSKE 5% is recommended for the control of sheath rot, sheath blight, grain discoloration and bacterial blight . To increase yield in pulses like green gram, and black gram, foliar spray of 100 ppm of salicylic acid on 30 and 45th day is recommended. Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease.

Pudukottai

Weather Based Agro - Advisories : (Important Crops : Paddy, Pulses) Boron deficiency symptoms are occurred in Groundnut. In the growth of young leaves restricted giving a rosette effect. The pod development is affected resulting in the production of 'pop' pods. Leaves small, branches stubby and stems may split pots show hollow heart and discoloration. Apply 5 kg of Borax as basal application and Boran3gm/1lt of water as foliar spray during flower and pod formation stages. Present weather conditions, in millets cultivation the water management is important , so the farmers are advised to

irrigate the sorghum fields, on 3,7,12,17 day of sowing. if soil is black cotton soil irrigation on 3, 9,16th days is sufficient . Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease.

Ramanathapuram

Weather Based Agro-Advisories : (Important Crops : Paddy, Pulses) Boron deficiency symptoms are occurred in Groundnut. In the growth of young leaves restricted giving a rosette effect. The pod development is affected resulting in the production of 'pop' pods. Leaves small, branches stubby and stems may split pots show hollow heart and discoloration. Apply 5 kg of Borax as basal application and Boran3gm/1lt of water as foliar spray during flower and pod formation stages. To increase yield in pulses like green gram, and black gram, foliar spray of 100 ppm of salicylic acid on 30 and 45th day is recommended. Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease.

Sivagangai

Weather Based Agro-Advisories : (Important Crops : Vegetables, Groundnut) Boron deficiency symptoms are occurred in Groundnut. In the growth of young leaves restricted giving a rosette effect. The pod development is affected resulting in the production of 'pop' pods. Leaves small, branches stubby and stems may split pots show hollow heart and discoloration. Apply 5 kg of Borax as basal application and Boran3gm/1lt of water as foliar spray during flower and pod formation stages. Prevailing current weather in coconut the following irrigation schedule based on pan evaporation for drip irrigation. Most common in June and July, October to December if the coconut groove's water source condition is normal irrigate through drip 45 lit / day, Moderate water scarcity condition 30 lit/ day and Severe water scarcity condition 15 lit / day. Present weather conditions, in millets cultivation the water management is important , so the farmers are advised to irrigate the sorghum fields, on 3,7,12,17 day of sowing. if soil is black cotton soil irrigation on 3, 9,16th days is sufficient . Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease.

Theni

Weather Based Agro-Advisories : (Important Crops : Vegetables, Groundnut) Prevailing current weather in coconut the following irrigation schedule based on pan evaporation for drip irrigation. Most common in June and July, October to December if the coconut groove's water source condition is normal irrigate through drip 45 lit / day, Moderate water scarcity condition 30 lit/ day and Severe water scarcity condition 15 lit / day. Farmers are advised to vaccinate your goats during this month to prevent goat from PPR (Pastedes Petits Ruminants) disease. Due to prevailing drought , there is a possibility of flare up of sucking pests like papaya mealybug, whitefly and spiraling whitefly attacking some agricultural and horticultural crops. Hence, farmers are advised to monitor for movement of sucking pests by installing yellow sticky traps @ 5 / acre. If any incidence is noted, farmers are requested to release parasitoids for managing papaya mealy bug. For managing other sucking pests give NSKE 5% spray or use any Neem formulations.

Kanyakumari

AGRO ADVISORIES

1. There are possibilities of 47 mm rainfall during the forthcoming days.
2. As heavy winds (20 - 24 kmph) coupled with rainfall are expected staking should be given to young rubber, banana and fruit trees.
3. Banana: Harvested banana bunches should be stored in dry places to prevent disease incidence due to rainfall.
4. Jack: Harvested fruits should be stored in dry places.
5. Pepper: Pepper rooted cuttings can be planted if there is sufficient soil moisture.
6. Rubber: Fix a polythene rain guard to the trunk of the tree above tapping panel so that tapping can be done during rainy season also.
7. Pineapple: Proper drainage should be provided to prevent the water logging.

SMS Advisory

As heavy winds (20 - 24 kmph) coupled with rainfall are expected staking should be given to young rubber, banana and fruit trees.

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

Since, heavy wind (>18km/hr) is anticipated, early season sugarcane and five months old banana crops may be propped against lodging.

Considering the morning and evening high relative humidity, pruning in monsoon grapes may be continued and spray the *Pseudomonas* @ 20g/litre of water on 25 days after pruning.

Considering high relative humidity, prevent mastitis disease in milching animals by washing the udder with potassium permanganate solution before and after milking.

Since rainfall is anticipated, transplanting of short duration rice varieties can be done with enough provision of drainage.

This is the best season for sowing of irrigated maize and sunflower.

For jasmine, based on the prevailing weather manuring may be done @ 10 kg FYM and NPK at 60,120 and 120 g/ plant.

SMS advisory

Since rainfall is anticipated, transplanting of short duration rice varieties can be done with enough provision of drainage.

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

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SMS advisory

Since rainfall is anticipated, transplanting of short duration rice varieties can be done with enough provision of drainage.

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

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SMS advisory

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

Crop: Rice and Rice fallow cotton Stage: Rice fallow cotton: Boll formation 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. 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. In cotton occurrence of boll worms are being noticed. To control this, spray indoxacarb 15.8→ SC 200 ml/acre. Livestocks Feed Azolla 1-2 kg per cow and 0.5-1kg for other animals daily at hot hours of the day.→ Increase the quantity of green fodder and concentrate on day time and decrease the quantity→ of dry fodder on cooler part of the day.

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