



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 068/2016**

For the period 0830 IST, 23<sup>rd</sup> Aug 2016 to  
0830 IST, 26<sup>th</sup> Aug 2016

**Issued on Friday, 23<sup>rd</sup> Aug 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 19.08.16 to 22.08.16 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 32°C – 39°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 18°C – 20°C during the period.

Minimum temperature of range 23°C - 29°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 10°C - 13°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>21.08.16</b>	<b>Puducherry</b>
<b>Fairly widespread (Many places)</b>	<b>--</b>	<b>--</b>
<b>Scattered (Few Places)</b>	<b>19.08.16</b>	<b>Puducherry</b>
<b>Isolated (Isolated Places)</b>	<b>19.08.16 , 20.08.16 , 21.08.16 &amp; 22.08.16</b>	<b>Tamilnadu</b>
<b>Dry</b>	<b>20.08.16 &amp; 22.08.16</b>	<b>Puducherry</b>

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

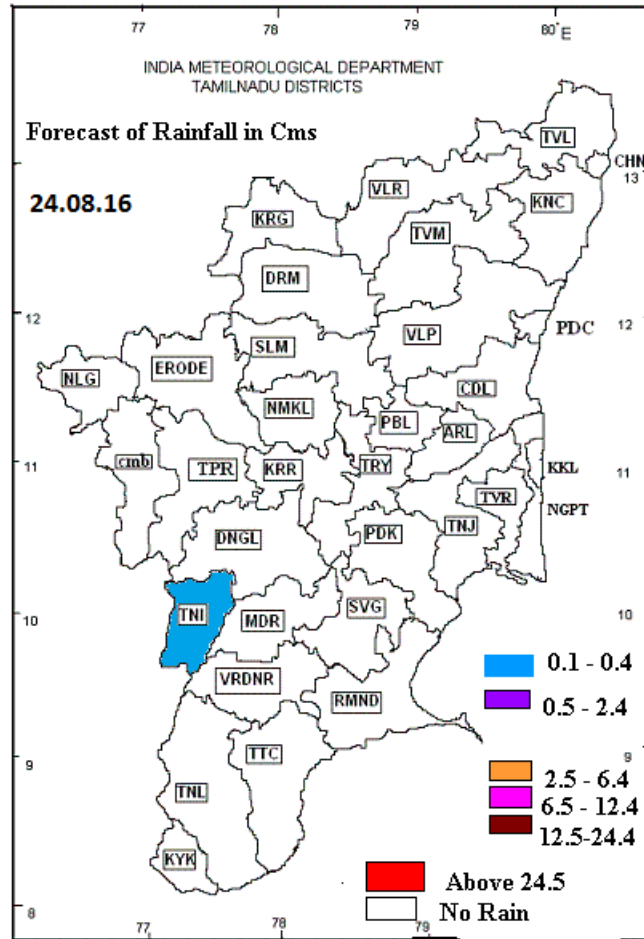
**19.08.16 : Chinnakalar (Coimbatore Dist), Trangambadi(or)Tranqueb (Nagapattinam Dist), Lower kothaiyar arg (Kanyakumari Dist), Yercaud (Salem Dist) 1 each.**

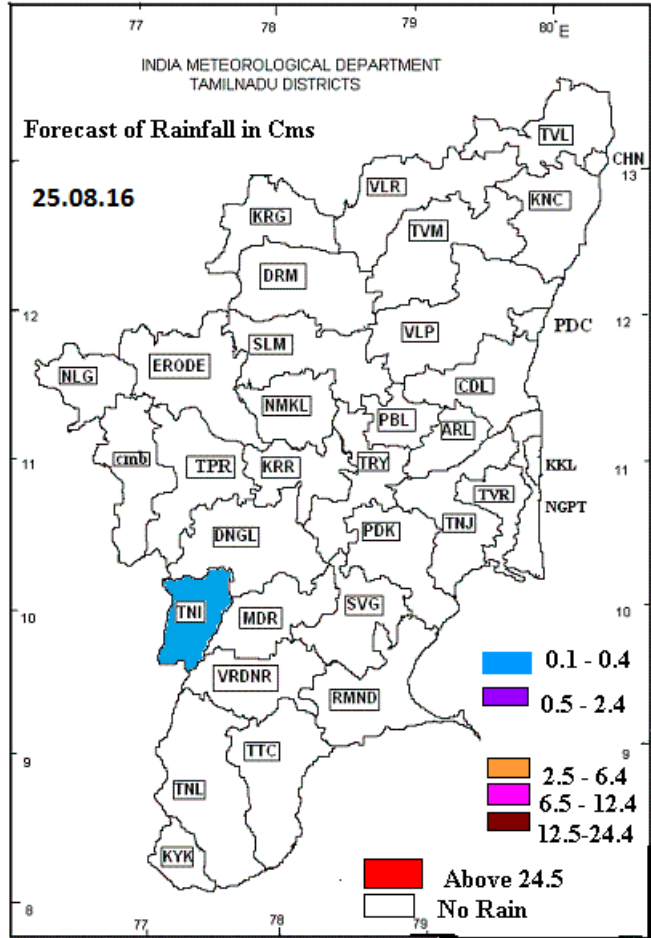
**20.08.16 : Yercaud (Salem Dist) 3, Mahabalipuram (Kancheepuram Dist), Tirupathur (Sivaganga Dist), K.m.koil (Cuddalore Dist) 1 each.**

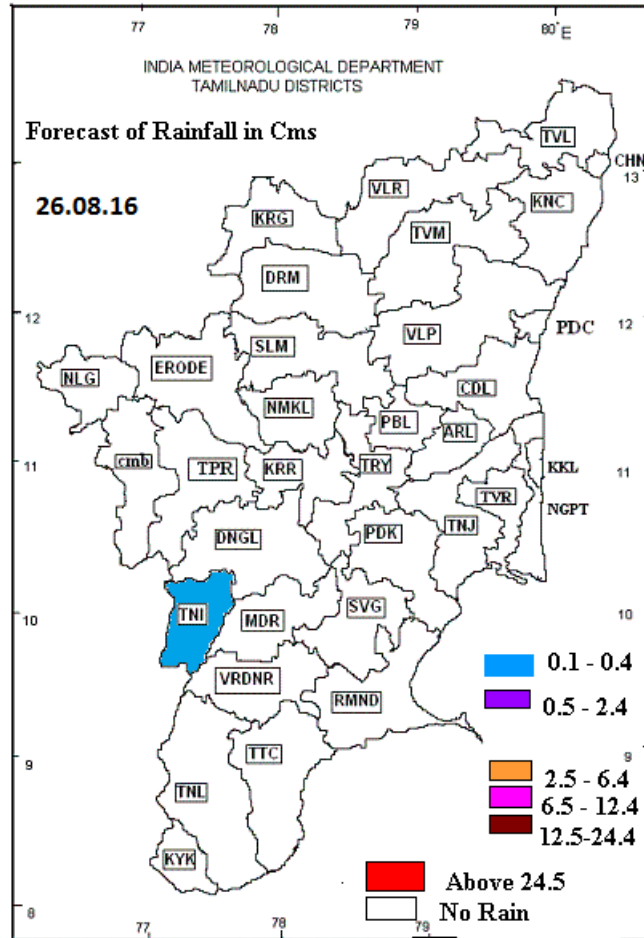
**21.08.16 : Omalur (Salem Dist) 4, Perambalur (Perambalur Dist), Attur (Salem Dist), Pondicherry (Puducherry Dist), Neyveli AWS (Cuddalore Dist) 3 each, Vazhapadi (Salem Dist), Melur (Madurai Dist), Tiruchengode (Namakkal Dist), Pullambadi (Trichy Dist), Chettikulam (Perambalur Dist) 2 each, Cuddalore (Cuddalore Dist), Alangudi (Pudukkottai Dist), Erode (Erode Dist), Tirukattupalli (Thanjavur Dist), Tiruvannamalai (Tiruvannamalai Dist), Gobichettipalayam (Erode Dist), Parangipettai (Cuddalore Dist), Naduvattam (Nilgiris Dist), Sethiathope (Cuddalore Dist), Srimushnam (Cuddalore Dist), Virudachalam (Cuddalore Dist) 1 each.**

**22.08.16 : Virudhunagar (Virudhunagar Dist) 5, Kovilankulam (Virudhunagar Dist) 4, Tirupuvanam (Sivaganga Dist), Sivaganga (Sivaganga Dist), Ilayangudi (Sivaganga Dist), Paramakudi (Ramanathapuram Dist) 3 each, Aruppukottai (Virudhunagar Dist), Tirupathur (Sivaganga Dist) 2 each, Madurai south (Madurai Dist), Nannilam (Tiruvarur Dist), Manamadurai (Sivaganga Dist), Natham (Dindigul Dist), Chittampatti (Madurai Dist), Ramanathapuram (Ramanathapuram Dist) 1 each.**

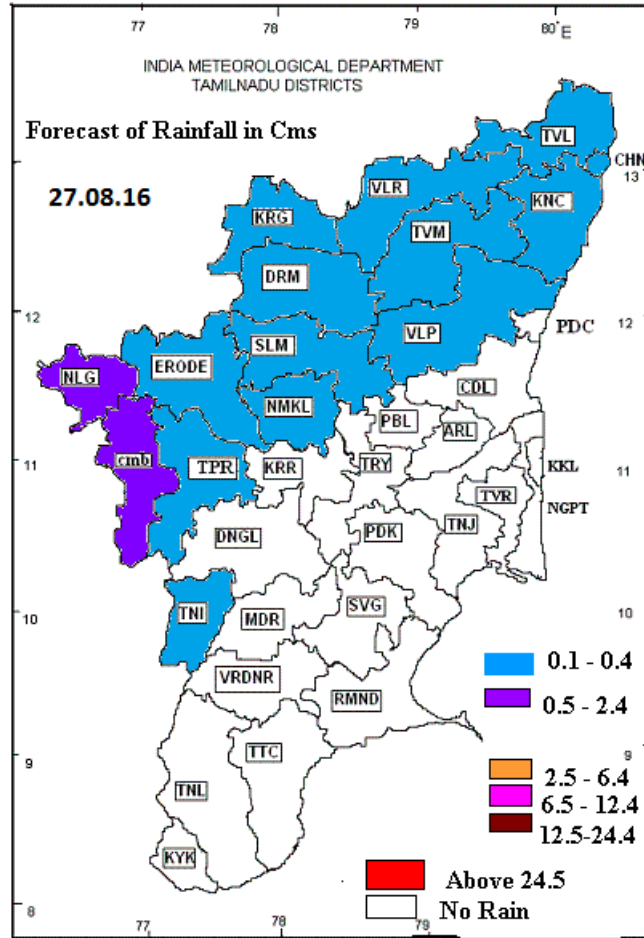
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 23.08.2016  
VALID FOR THE NEXT 5 DAYS**

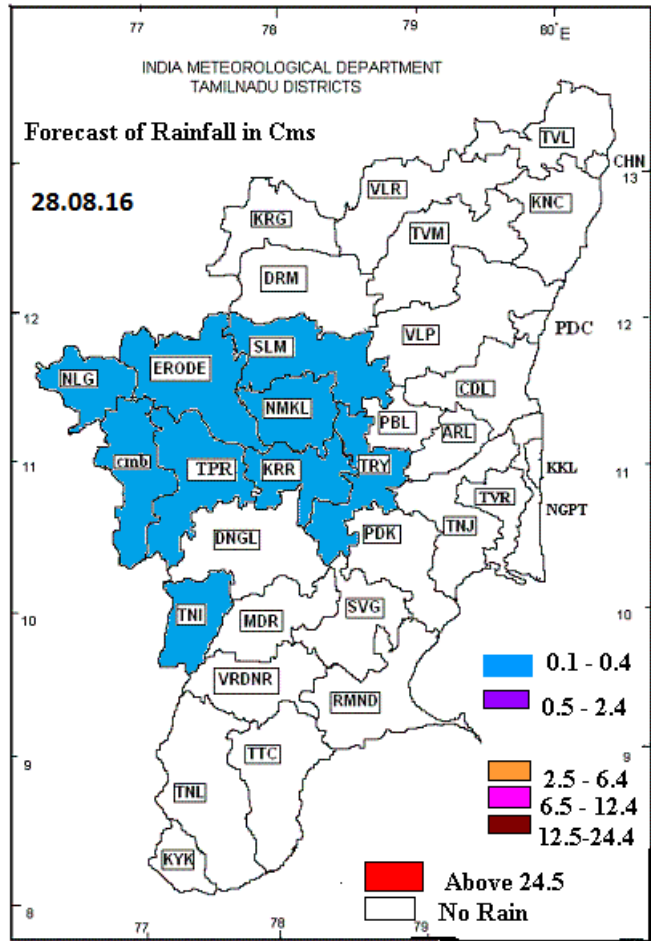












## **Districtwise Agromet Advisories**

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

#### **Livestock:**

1. Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.
2. In poultry shed water tank and water lines may be covered with gunny bags to provide cool drinking water during hot part of the day.
3. During day time farmers are advised to sprinkle water to high yielding dairy cows 2 or 3 time to reduce heat stress.
4. To control fluke infestation, animal should not be allowed to graze near ponds and lakes.
5. Farmers are advised to vaccinate their cattle, sheep and goats against anthrax disease in the endemic areas by consulting with local Veterinary Dispensary.
6. Sheep and goats should be dewormed by using suitable anthelmintic by consulting with local veterinary doctor.
7. Farmers are advised to wash and clean the udder before milking and not to provide dusty roughage immediately after milking to avoid mastitis.

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

1. Spraying of edifenphos @ 750 ml/ha at 30, 45 and 60 DAT was effective for the management of blast, sheath rot and brown spot.
2. To control the incidence of sucking pest in the vegetable crops farmer are advised to spray neem seed kernal extract 5 percent.
3. Wedding Operation can be carried out in groundnut crops.
4. To control shoot and fruit borer in brinjal, apply Emamectin benzoate 5 SG @ 200 g/ha.
5. To control mite in paddy spray Dicofol 18.5 EC @ 1250 ml/ha.

### **Karaikal**

Long duration varieties like CR 1009 and KKLR 1 may be adopted or ensuing samba season.

Treat the seeds with Carbendazim or Pyroquilon or Tricyclozole @ 2 g/ kg of seed. Soak the seeds in water for 10 hrs and drain the excess water.

Treat the seeds with *Pseudomonas fluorescens* @10g/kg of seed per litre of water overnight. Decant the excess water and allow the seeds to sprout for 24hrs before sowing.

Treat the seeds with three packets (600 g/ha) of Azospirillum and 3 packets (600g/ha) of phosphobacteria or 6 packets (1200g/ha) of Azophos and then taken up sowing.

## **Puducherry**

Long duration varieties like CR 1009 and KCLR 1 may be adopted for ensuing samba season.

Treat the seeds with Carbendazim or Pyroquilon or Tricyclozole @ 2 g/ kg of seed. Soak the seeds in water for 10 hrs and drain the excess water.

Treat the seeds with Pseudomonas fluorescens @10g/kg of seed per litre of water overnight. Decant the excess water and allow the seeds to sprout for 24hrs before sowing.

Treat the seeds with 3 packets (600 g/ha) of Azospirillum and 3 packets (600g/ha) of Phosphobacteria or 6 packets (1200g/ha) of Azophos and then taken up sowing. For clayey soils where root snapping is a problem, 4 kg of gypsum and 1kg of DAP/cent may be applied at 7 days before pulling out of seedling.

## **Dindigul**

**Imp. Crops: Groundnut, Onion, Vegetables, Banana and Sugarcane**

**Stage: Onion: Harvest stage**

Since the wind speed is more than 16 KMPH, propping may be given to five months and old banana.!

Constant monitoring of sugarcane against shoot borers should be done. If population of borer is above ETL, than broadcasting of carbofuran 3% G @ 10 kg/ acre is recommended.!

Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.!

## **Madurai, Pudukottai**

**Imp. Crops: Rice and Sugarcane**

**Stage: Rice: Panicle initiation stage**

At active tillering stage of Kuruvai paddy, top dressing can be done with 25 kg urea and 10 kg MOP/acre by keeping thin film of water in the field.!

Since the wind speed is more than 16 KMPH, propping may be given to five months and old banana.!

Leaf mite incidence is being noticed in the paddy fields due to prevailing weather condition. To manage this, spray Dicofol @ 500 ml/ acre or wettable sulphur @ 400 g/ acre with 200 liter of water.!

Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.!

## **Ramanathapuram**

**Imp. Crops: Groundnut and Sugarcane**

**Stage: Groundnut: Harvest stage**

Since the vegetables crops at flowering to fruiting stage and due to increasing the temperature better to apply the nutrients through fertigation or foliar spray.!

Constant monitoring of sugarcane against shoot borers should be done. If population of borer is above ETL, than broadcasting of carbofuran 3% G @ 10 kg/ acre is recommended.!

Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.!

## **Sivagangai**

**Imp. Crops: Groundnut and Sugarcane**

**Stage: Groundnut: Harvest stage**

Since the vegetables crops at flowering to fruiting stage and due to increasing the temperature better to apply the nutrients through fertigation or foliar spray.!

Since the wind speed is more than 16 KMPH, propping may be given to five months and old banana.!

Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.!

## **Theni**

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

**Stage: Rice: Panicle initiation stage**

At active tillering stage of Kuruvai paddy, top dressing can be done with 25 kg urea and 10 kg MOP/acre by keeping thin film of water in the field.!

Leaf mite incidence is being noticed in the paddy fields due to prevailing weather condition.

To manage this, spray Dicofol @ 500 ml/ acre or wettable sulphur @ 400 g/ acre with 200 liter of water.!

Due to increase in day temperature farmers are advised to cover the animal shed roof with paddy straw or white washing the roof to reduce the temperature inside the animal house.

## **Nilgiris**

While planting Banana suckers, apply 10 kg compost, 250 g Neem cake, 25 g

Trichoderma and 25 g Pseudomonas per pit.

In Garlic crop, Ammonium Sulphate can be used instead of urea to avoid rubberisation disorder in Garlic.

Widespread incidence of Ash weevil is observed in Horticultural crops. To control Ash weevils, Spray phosalone 35 EC @ 1.5 ml/lit of water.

In pepper plantation, 1% DAP spray may be given on leaves to prevent spike drop and for enhanced yield.

In Gudalur region, for Arecanut plantation, 220 grams Urea, 220 grams Super phosphate and 230 grams potash may be given per tree in the post monsoon period.

### Thoothukudi

Crop/ Farming system	Stage / Activities	Advisories
Rice	Active tillering stage	Stem borer and leaf folder incidence are noticed in Rice. To control these pest, release <i>Trichogramma japonicum</i> for stem borer and <i>Trichogramma chilonis</i> for leaf folder thrice @ 1,00,000/ ha. (or) Spray <i>Bacillus thuringiensis</i> 1 kg/ ha.
Moringa	Flowering to fruiting stage	As moderate cloud cover and humidity is expected in the coming days, leaf caterpillar incidence is noticed in moringa. To control <ul style="list-style-type: none"><li>• Plough around the trees to expose and kill pupae</li><li>• Collect and destroy damaged buds along with caterpillar</li><li>• Set up light trap @ 1no./ha</li><li>• Spray carbaryl 50 WP@ 1g/ l or malathion 50 EC 2 ml/ l of water</li></ul>
Jasmine	Flowering stage	As moderate cloud cover and humidity is expected in the coming days, blossom midge incidence is noticed in jasmine. For controlling this pest spray monocrotophos 36 SL @ 2 ml/ l.

SMS: No rain. Rice- Stem borer & leaf folder- release *Trichogramma japonicum* & *Trichogramma chilonis* thrice @1,00,000/ ha. Spray *Bacillus thuringiensis* 1 kg/ha.

## Tirunelveli

Agromet advisories in relation to the anticipated weather having moderate cloud cover and humidity

Crop/ Farming system	Stage / Activities	Advisories
Rice	Active tillering stage	Stem borer and leaf folder incidence are noticed in Rice. To control these pest, release <i>Trichogramma japonicum</i> for stem borer and <i>Trichogramma chilonis</i> for leaf folder thrice @ 1,00,000/ ha. (or) Spray <i>Bacillus thuringiensis</i> 1 kg/ ha.
Moringa	Flowering to fruiting stage	As moderate cloud cover and humidity is expected in the coming days, leaf caterpillar incidence is noticed in moringa. To control <ul style="list-style-type: none"> <li>• Plough around the trees to expose and kill pupae</li> <li>• Collect and destroy damaged buds along with caterpillar</li> <li>• Set up light trap @ 1no./ha</li> <li>• Spray carbaryl 50 WP@ 1g/ l or malathion 50 EC 2 ml/ l of water</li> </ul>
Jasmine	Flowering stage	As moderate cloud cover and humidity is expected in the coming days, blossom midge incidence is noticed in jasmine. For controlling this pest spray monocrotophos 36 SL @ 2 ml/ l.

SMS: No rain. No rain. Rice- Stem borer & leaf folder- release *Trichogramma japonicum* & *Trichogramma chilonis* thrice @1,00,000/ ha. Spray *Bacillus thuringiensis* 1 kg/ha.

## Virudhunagar

Crop/ Farming system	Stage / Activities	Advisories
Moringa	Flowering to	As moderate cloud cover and humidity is expected in the coming days, leaf caterpillar incidence is noticed in

	fruiting stage	moringa. To control <ul style="list-style-type: none"> <li>• Plough around the trees to expose and kill pupae</li> <li>• Collect and destroy damaged buds along with caterpillar</li> <li>• Set up light trap @ 1no./ha</li> <li>• Spray carbaryl 50 WP@ 1g/ l or malathion 50 EC 2 ml/ l of water</li> </ul>
Jasmine	Flowering stage	As moderate cloud cover and humidity is expected in the coming days, blossom midge incidence is noticed in jasmine. For controlling this pest spray monocrotophos 36 SL @ 2 ml/ l.

SMS: No rain. Jasmine- blossom midge - spray monocrotophos 36 SL @ 2 ml/ l.

## **Nammakal, Salem, Dharmapuri, Krishnagiri**

### **A) Special Weather Advisory Bulletin for Poultry Farming:**

1. For next three days day time temperature is likely to go up by 1.0°C together with reduced wind speed. These may induce mild heat stress in poultry. Mild rain at few places likely to reduce heat stress locally. To control heat stress, add vitamin C and electrolytes in feed. When feed intake found to be high, avoid rankling feed during day time and facilitate feed intake during evening hours by providing artificial lighting for an hour.

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

2. To increase yield and induce drought resistance in cotton, apply 2.5 kg/acre of “cotton plus” booster with nutrients and growth regulators mix twice at flowering and at boll initiation stage.

## **Ariyalur**

Crop: Rice, Black gram, Sugarcane, Cotton

Stage: Kuruvai - Panicle initiation stage; Samba: Land preparation and sowing

Ø Leaf mite incidence is being noticed in the Kuruvai paddy fields due to prevailing weather condition. To manage this, spray Dicofol @ 500 ml/acre, or wettable sulphur @400g/acre with 200 litres of water.



Ø For direct sown rice in samba season, sowing by using tractor drawn seed drill, seed rate of 15 kg/acre is required. For manual broadcasting seed rate of 30 kg/acre is required. Seeds should be treated with *Pseudomonas fluorescence* 10g/kg of seed before sowing. Seed treatment increase seed germination, seedling vigour and controls the seed borne disease.

Ø For preparing samba nursery, apply 400 kg of well decomposed FYM or compost in an area of 8 cent nursery for planting 1 acre. Application of 1 kg DAP/cent is recommended.

Ø In direct sown wet seeded rice apply pretilachlor + safener 500 ml/acre on 3-4 days after sowing to control weeds.

## Karur

Crop: Rice, Black gram, Sugarcane, Cotton

Stage: Samba: Land preparation and sowing

Rice varieties CR 1009 and ADT 50 are suitable for samba season in Cauvery delta zone.

For direct sown rice in samba season, sowing by using tractor drawn seed drill, seed rate of 15 kg/acre is required. For manual broadcasting seed rate of 30 kg/acre is required. Seeds should be treated with *pseudomonas fluorescence* 10g/kg of seed before sowing. Seed treatment increase seed germination, seedling vigour and controls the seed borne infection

## Nagapattanam, Perambalur, Thanjavur, Tiruvarur & Thiruchirapalli

Crop: Rice, Black gram, Sugarcane, Cotton

Stage: Kuruvai - Panicle initiation stage; Samba: Land preparation and sowing

Leaf mite incidence is being noticed in the Kuruvai paddy fields due to prevailing weather condition. To manage this, spray Dicofol @ 500 ml/acre, or wettable sulphur @400g/acre with 200 litres of water.

For direct sown rice in samba season, sowing by using tractor drawn seed drill, seed rate of 15 kg/acre is required. For manual broadcasting seed rate of 30 kg/acre is required. Seeds should be treated with *Pseudomonas fluorescence* 10g/kg of seed before sowing. Seed treatment increase seed germination, seedling vigour and controls the seed borne disease.

For preparing samba nursery, apply 400 kg of well decomposed FYM or compost in an area of 8 cent nursery for planting 1 acre. Application of 1 kg DAP/cent is recommended.

In direct sown wet seeded rice apply pretilachlor + safener 500 ml/acre on 3-4 days after sowing to control weeds.

## Coimbatore

Blocks	Sugarcane	Banana	Vegetables (Tomato, Bhendi,	Rice	Sesame	Sorghum	Turmeric	Irrigated bajra
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			Brinjal)					
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 increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

Considering the heavy wind, avoid broadcasting of fertilizer and spraying of pesticides.

Considering the dry weather for next three days, harvested groundnut may be dried and stored moisture below 8%.

Heavy wind and cloudiness may cause thirst for water in animals. Hence, provide adequate clean drinking water.

#### SMS advisory

Considering the increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

### Erode

Taluks	Sugarcane	Banana	Vegetables (Tomato, Bhendi, Brinjal)	Rice	Sesame	Sorghum	Turmeric	Irrigated bajra
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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 increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

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Heavy wind and cloudiness may cause thirst for water in animals. Hence, provide adequate clean drinking water.

#### SMS advisory

Considering the increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

### 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 increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

Considering the heavy wind, avoid broadcasting of fertilizer and spraying of pesticides. Considering the dry weather for next three days, harvested groundnut may be dried and stored moisture below 8%.

Heavy wind and cloudiness may cause thirst for water in animals. Hence, provide adequate clean drinking water.

#### SMS advisory

Considering the increasing wind speed, propping may be done in early season sugarcane and above 5 months old banana.

## Kanniyakumari

There is no possibility of rainfall during forth coming five days.

Basin preparation for pepper, clove, nutmeg and cinnamon may be taken for better rain water harvest.

Sufficient irrigation should be given to vegetable to protect against high temperature.

Mulching the basins of fruit trees have to be taken up.

The trailing vines of pepper have to be trained on the standard.

As heavy winds are expected staking should be given to banana trees.

#### SMS Advisory

There is no possibility of rainfall during forth coming five days.

Sufficient irrigation should be given to vegetable to protect against high temperature

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