



जिला स्तरतमिलनाडुके लिएकृषि मौसमसलाहकारबुलेटिन

## **DISTRICT LEVEL**

# **Agro meteorological Advisory Bulletin for the state of Tamil Nadu Bulletin No. 016/2016**

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

**Issued on Tuesday, 23<sup>rd</sup> February 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 19.02.16 to 22.02.16 for the State of Tamilnadu & Puducherry**

**Temperature:**

Maximum Temperature of range 30°C – 37°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 16°C – 23°C during the period.

Minimum temperature of range 19°C - 26°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 09°C - 11°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>	19.02.16 , 20.02.16, 21.02.16 & 22.02.16	Tamilnadu
<b>Dry</b>	19.02.16 , 20.02.16, 21.02.16 &22.02.16	Puducherry

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

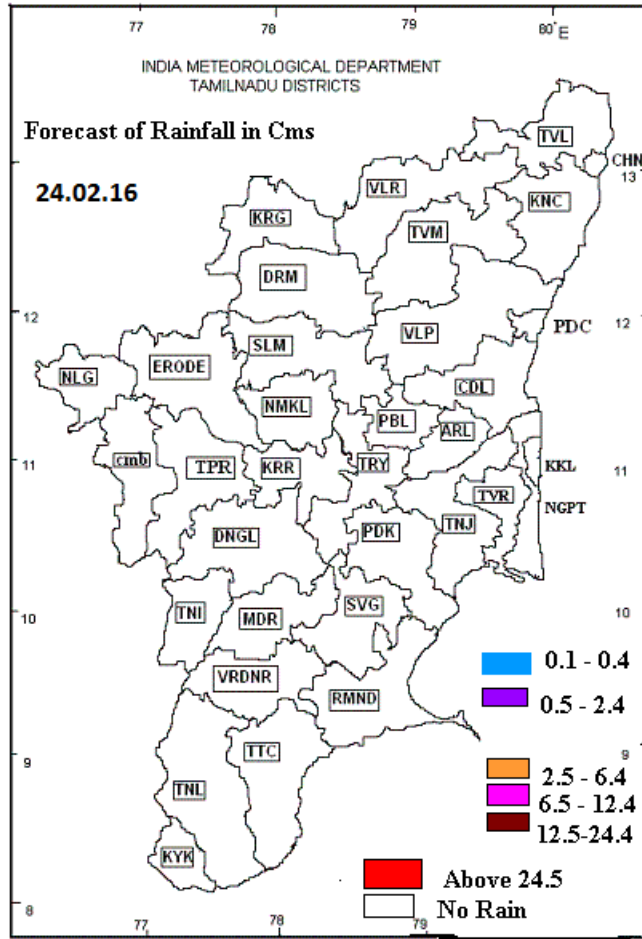
**19.02.16 : Nil**

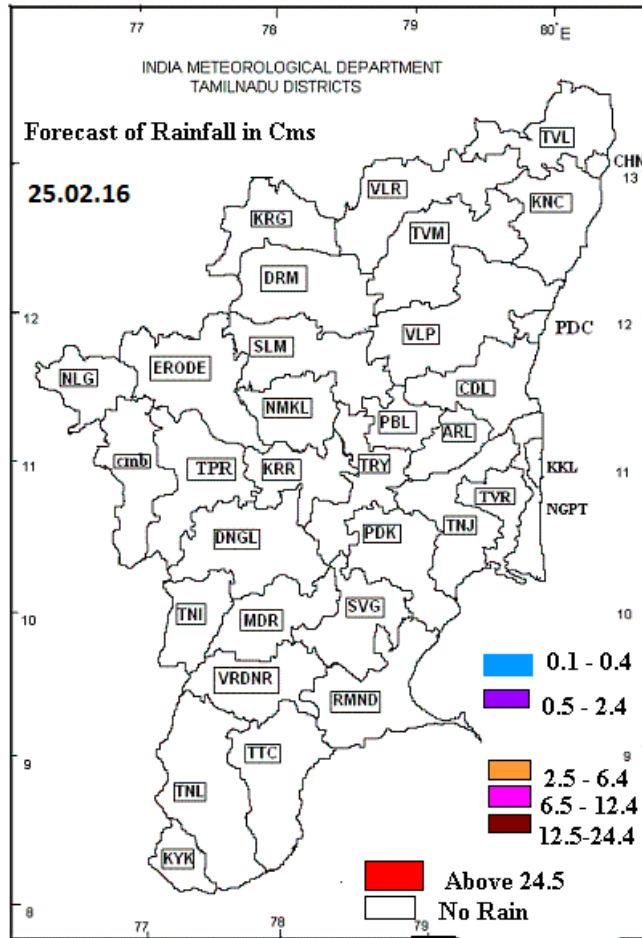
**20.02.16 : Nil**

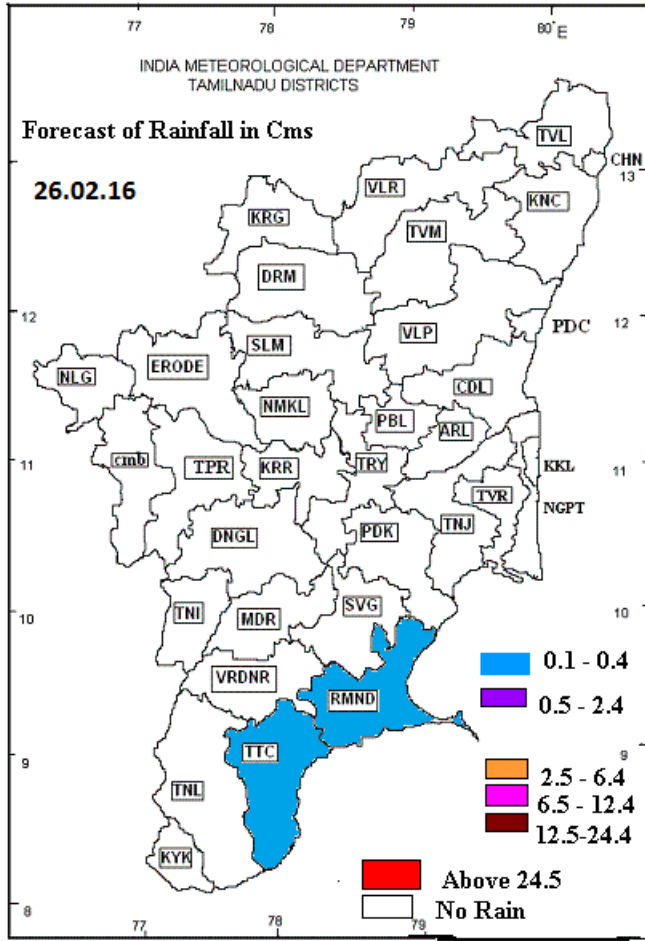
**21.02.16 : Nil**

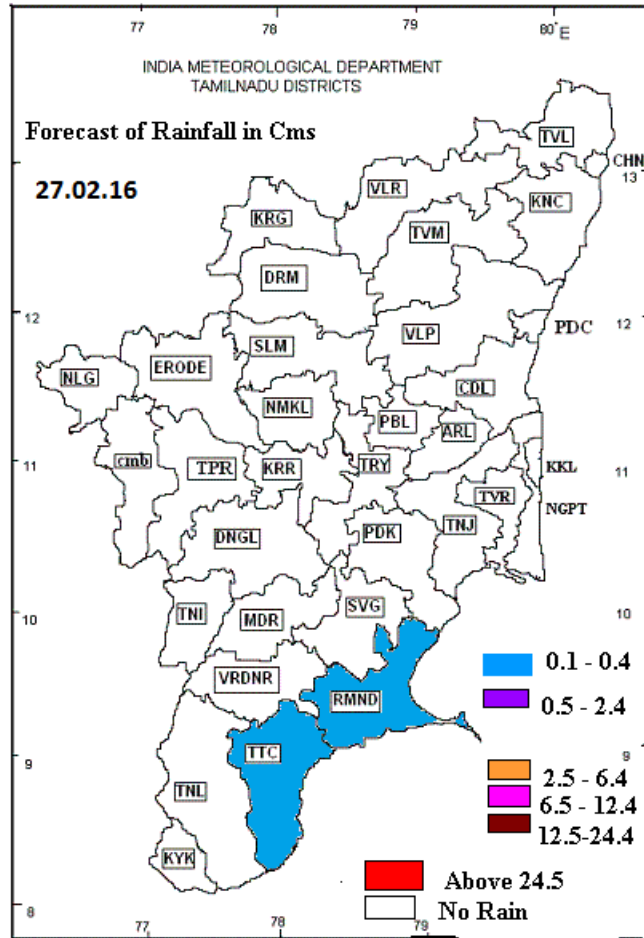
**22.02.16 : Nil**

**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 23.02.2016  
VALID FOR THE NEXT 5 DAYS**

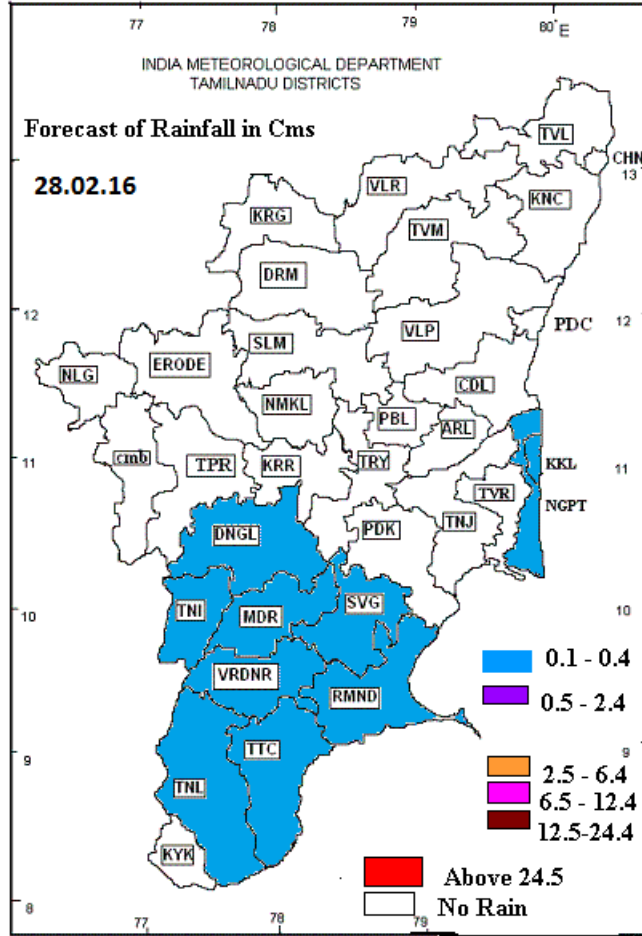












## **Districtwise Agromet Advisories**

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

#### **Livestock:**

Vaccination campaign against foot and mouth disease is scheduled from 1<sup>st</sup> to 21<sup>st</sup> March 2016 at village level (Point Vaccination). Hence, farmers are advised to vaccinate their livestock and protect them from foot and mouth disease.

Farmers are advised to wash and clean the udder before milking and not to provide dusty roughage immediately after milking to avoid mastitis.

To prevent the endoparasitic infestation animals should be allowed for grazing in the morning after the dew dried off.

Animals should not be allowed for grazing during hot part of the day, provide cool drinking water and shade to the animals to reduce heat stress.

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

Livestock in the flood affected area will be having foot rot (lesion in the foot). Hence farmers are advised to apply 4 % Copper Sulphate (40 grams of copper sulphate in 1 liter of water) as a spray or foot dip to control the infection or Zinc oxide ointment and neem oil can be applied on the lesion.

#### **Agriculture**

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.

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.

To control Bacterial leaf blight in rice spray of Copper hydroxide 77 WP@1.25 kg/ha at 30 DAP & 45 DAP (or) spray fresh cow dung extract 20% or NSKE 5% twice (starting from initial appearance of the disease and another at fortnight interval)

### **Karaikal**

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 control semilooper in black gram spray Monocrotophos @ 500 ml /ha.

### **Puducherry**

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 control Blast and Brown spot in rice spray Carbendazim 50WP @ 500 g/ha (or) Tricyclozole 75 WP @ 500 g/ha (or) Propiconazole 25 EC @ 500 ml/ha (or) Iprobenphos 48 EC @ 1000 ml/ha (or) Kasugamycin-B 3SL@1250 ml/ha (or) Metominostrobin 20 SC @ 500 ml/ha (or) Azoxystrobin 25 SC @ 500 ml/ha.

To control Bacterial leaf blight in rice spray of Copper hydroxide 77 WP@1.25 kg/ha at 30 DAP & 45 DAP (or) spray fresh cow dung extract 20% or NSKE 5% twice (starting from initial appearance of the disease and another at fortnight interval)

### **Nilgiris**

No rainfall is expected in the district for the next five days.

To prevent rubberisation disorder in Garlic, avoid Urea and use ammonium sulphate for nitrogen nutrition.

In summer to control coffee berry borer, avoid gleanings, destroy gleanings if any and carry out through harvest.

Growers are advised to Spray Neem oil (1% Azadirachtin) or Propargite 57% EC or Profenofos 50% EC or Dicofol 18.5% EC @ 2 ml / lr of water to control mites in Tea crop.

In summer season, to control weeds in Carrot, Beans, Cabbage and Garlic crops, pre emergence herbicide Fluchloralin can be used after sowing the crops

### **Dindigul**

Imp. Crop: Cotton, Maize, Onion, Sugarcane and Vegetables Stage: Cotton- Maturation stage, Maize- Vegetative stage, Onion- Vegetative stage

Since there is no rainfall for the coming five days harvesting of matured crops can be planned.

Depending upon local weather, irrigation can be plan for garden land crops.

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

To control White fly and Jassids in cotton with Spray Imidacloprid 17.8 % @ 5 ml or Thiomethoxam 6 g in 10 litres of water.

To prevent early shedding of buds and squares in cotton spray 40ppm NAA (40mg of Naphthalene Acetic Acid in 1lit of water) at 60 and 90 DAS on the crops.

In chillies to manage fruit borers set up pheromone traps @ 5/acre to attract adult moths.

### **Madurai**

Imp. Crop: Paddy and Sugarcane Stage: Paddy –Harvesting stage

Harvesting of the matured paddy can be taken up by using the dry weather expected. Harvested paddy seeds may be dried at moisture less than 13 % using the current dry weather condition to prevent stored pests damage.

In the sugarcane crops spray potash and urea each at 2.5% level during moisture stress (water shortage) period at 15days interval.

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.

### **Pudukottai**

Imp. Crop: Paddy and Sugarcane. Stage: Paddy–Harvesting stage

Harvesting of the matured paddy can be taken up by using the dry weather expected. Harvested paddy seeds may be dried at moisture less than 13 % using the current dry weather condition to prevent stored pests damage.

In the sugarcane crops spray potash and urea each at 2.5% level during moisture stress (water shortage) period at 15days interval.

In sugarcane, iron deficiency may be rectified by foliar spraying of 250g of Ferrous Sulphate dissolved in 100 lit of water or Soil application of 25kg/ha of Ferrous Sulphate.

To control Rust in sugarcane spray with Mancozeb 2.0gram/ac.

### **Ramanathapuram**

Imp. Crop: Paddy, Cotton and Pulses Stage: Paddy- Maturity& Harvesting stage, Cotton- Maturation stage

Harvesting of the matured paddy can be taken up by using the dry weather expected. Harvested paddy seeds may be dried at moisture less than 13 % using the current dry weather condition to prevent stored pests damage.

To control White fly and Jassid in cotton spray with Spray Imidacloprid 17.8 % @ 5ml or Thiomethoxam 6 g in 10 litres of water.

In the sugarcane crops spray potash and urea each at 2.5% level during moisture stress (water shortage) period at 15days interval.

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

### **Sivagangai**

Imp. Crop: Paddy, Cotton and Pulses Stage: Paddy- Maturity & Harvesting stage, Cotton- Maturation stage

Harvesting of the matured paddy can be taken up by using the dry weather expected. Harvested paddy seeds may be dried at moisture less than 13 % using the current dry weather condition to prevent stored pests damage.

In sugarcane, iron deficiency may be rectified by foliar spraying of 250g of Ferrous Sulphate dissolved in 100 lit of water or Soil application of 25kg/ha of Ferrous Sulphate.

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.

### **Theni**

Imp. Crop: Paddy, Cotton, Sugarcane and Vegetables Stage: Paddy- Maturity & Harvesting stage, Cotton- Boll development

Harvesting of the matured paddy can be taken up by using the dry weather expected. Harvested paddy seeds may be dried at moisture less than 13 % using the current dry weather condition to prevent stored pests damage.

To prevent early shedding of buds and squares in cotton spray 40ppm NAA (40mg of Naphthalene Acetic Acid in 1lit of water) at 60 and 90 DAS on the crops.

To control Bacterial blight in cotton spray with Strptomycin sulphate+Tetracycline mixture 100g+Copper oxychloride 1250g/ha after appearance of the disease. Repeat spraying at 10 days interval twice or thrice if drizzling continues.

In sugarcane, iron deficiency may be rectified by foliar spraying of 250g of Ferrous Sulphate dissolved in 100 lit of water or Soil application of 25kg/ha of Ferrous Sulphate.

### Kanyakumari

S. NO	CROP	STAGES	ADVISORIES
1	Banana	Shooting stage	Staking the banana trees with bamboo poles.
2	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.
3	Rubber	New shoot formation and flowering stages	Spray Ethrel on tapping panel to increase the latex secretion.
4	Pepper	Harvesting stage	The growing vines are to be trained to the standards.
5	Paddy	Panicle initiation and flowering stage	Irrigate the paddy field to a depth of 5 cm after disappearance of ponded water.

#### SMS ADVISORY

There is no possibility rainfall during the forthcoming days.

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

### Thoothukudi

Crop/ Farming system	Stage / Activities	Advisories
Greengram, Blackgram (Irrigated)	Vegetative stage	For managing labour scarcity in weeding early post emergence herbicides can be used in summer irrigated greengram and blackgram. Spray quizalofop ethyl 5% EC 1 litre/ ha (2 ml/ l of water) or imazethapyr 10% SL 0.5 litre/ ha (1 ml/ litre of water) on 15- 20 DAS if pre emergence herbicide was not applied. Ensure sufficient moisture in the soil at the time of herbicide spraying.
Sugarcane	Tillering stage	As dry weather is expected in the coming days irrigate the sugarcane crop using drip irrigation system. Apply fertilisers through fertigation upto 210 days after planting. During each fertigation 25 kg N and 8 kg K per ha has to be applied through urea and white potash.
Bhendi	Seedling stage	For managing weeds in irrigated bhendi crop spray oxyflourfen 0.15 kg a.i./ ha or fluchloralin 1 kg a.i./ ha or metolachlor 0.75 kg a.i./ ha as preemergence application on third day after sowing. Ensure sufficient moisture in the soil at the time of herbicide application.
Banana	Juvenile stage	As dry weather is expected in the coming days apply 8- 10 litre of water per plant using drip irrigation system.

SMS: Rain: Feb 26- 28: 1, 2& 5 mm, respectively. Bhendi- spray herbicide fluchloralin commercial product 2.2 l/ ha on 3<sup>rd</sup> DAS when sufficient moisture is present in soil.

### Virudhunagar

Crop/ Farming system	Stage / Activities	Advisories
Greengram, Blackgram (Irrigated)	Vegetative stage	For managing labour scarcity in weeding early post emergence herbicides can be used in summer irrigated greengram and blackgram. Spray quizalofop ethyl 5% EC 1 litre/ ha (2 ml/ l of water) or imazethapyr 10% SL 0.5 litre/ ha (1 ml/ litre of water) on 15- 20 DAS if pre emergence herbicide was not applied. Ensure sufficient moisture in the soil at the time of herbicide spraying.
Sugarcane	Tillering stage	As dry weather is expected in the coming days irrigate the sugarcane crop using drip irrigation system. Apply fertilisers through fertigation upto 210 days after planting. During each fertigation 25 kg N and 8 kg K per ha has to be applied through urea and white potash.
Bhendi	Seedling stage	For managing weeds in irrigated bhendi crop spray oxyflourfen 0.15 kg a.i./ ha or fluchloralin 1 kg a.i./ ha or metolachlor 0.75 kg a.i./ ha as preemergence application on third day after sowing. Ensure sufficient moisture in the soil at the time of herbicide application.
Banana	Juvenile stage	As dry weather is expected in the coming days apply 8- 10 litre of water per plant using drip irrigation system.

SMS: Rain: 28.2.16: 3 mm. Bhendi- spray herbicide fluchloralin commercial product 2.2 l/ ha on 3<sup>rd</sup> DAS when sufficient moisture is present in soil.

### Thirunelveli

Crop/ Farming system	Stage / Activities	Advisories
Greengram, Blackgram (Irrigated)	Vegetative stage	For managing labour scarcity in weeding early post emergence herbicides can be used in summer irrigated greengram and blackgram. Spray quizalofop ethyl 5% EC 1 litre/ ha (2 ml/ l of water) or imazethapyr 10% SL 0.5 litre/ ha (1 ml/ litre of water) on 15- 20 DAS if pre emergence herbicide was not applied. Ensure sufficient moisture in the soil at the time of herbicide spraying.
Sugarcane	Tillering stage	As dry weather is expected in the coming days irrigate the sugarcane crop using drip irrigation system. Apply fertilisers through fertigation upto 210 days after planting. During each fertigation 25 kg N and 8 kg K per ha has to be applied through urea and white potash.
Bhendi	Seedling stage	For managing weeds in irrigated bhendi crop spray oxyflourfen 0.15 kg a.i./ ha or fluchloralin 1 kg a.i./ ha or metolachlor 0.75 kg a.i./ ha as preemergence application on third day after sowing. Ensure sufficient moisture in the soil at the time of herbicide application.
Banana	Juvenile stage	As dry weather is expected in the coming days apply 8- 10 litre of water per plant using drip irrigation system.

SMS: Rain: 28.2.16: 2 mm. Bhendi- spray herbicide fluchloralin commercial product 2.2 l/ ha on 3<sup>rd</sup> DAS when sufficient moisture is present in soil.

## Coimbatore

Blocks	Sugar cane	Banana	Turmeric	Vegetables (Tomato, Bhendi, Brinjal)	Pulses	Rice	sesame
Thondamuthur	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Karamadai	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Sulur	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Sultanpet	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Pollachi	P + V	6-9 months & P	H	V-P	H	H-N-T	S
P.N Palayam	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Kinathukadavu	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Annur	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Madukarai	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Annaimalai	P + V	6-9 months & P	H	V-P	H	H-N-T	S

P+ V - Planting & vegetative; H - Harvest; V- P- Vegetative &Picking; H-N-T- Harvest, Nursery & Transplanting; S - Sowing

## Agro Advisory

Due to rising temperature (both maximum and minimum), sucking pest may appear in transplanted Navarai season rice. To control, spray Phosphamidon 40SL @ 600 ml / ha.

Apply 91Kg N + 37Kg K<sub>2</sub>O per hectare as top dressing followed by irrigation for early season planted sugarcane more than 60 days and mid-season planted sugarcane more than 30 days.

Considering the temperature rise, milch animals need mineral mixture and hence 50grams of TANUVAS smart mineral mixture per animal per day may be mixed along with animal feed. Since temperature is rising provide enough drinking water.

Considering the rising maximum temperature and high morning relative humidity, it is proposed give Foot and Mouth disease vaccination to all cattle and buffalo at Coimbatore and Trippur districts from 1.03.16 to 31.03.16 as 10<sup>th</sup> round. Contact local veterinary staff.

## SMS advisory

Because of rising temperature sucking pest may appear in transplanted Navarai season rice. To control spray Phosphamidon 40SL @ 600 ml / ha.

## Erode

Taluks	Sugar cane	Banana	Turmeric	Vegetables (Tomato, Bhendi, Brinjal)	Pulses	Rice	Sesame
Ammamet	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Bhavani	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Erode	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Perundurai	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Sathyamangalam	P + V	6-9 months & P	H	V-P	H	H-N-T	S
Nambiyur	P + V	6-9 months & P	H	V-P	H	H-N-T	S



Gobichettipalayam	P + V	6-9 months & P	H	V-P	H	H-N-T	S
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P+ V - Planting & vegetative; H - Harvest; V- P- Vegetative & Picking; H-N-T- Harvest, Nursery & Transplanting; S - Sowing

#### Agro Advisory

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Apply 91Kg N + 37Kg K<sub>2</sub>O per hectare as top dressing followed by irrigation for early season planted sugarcane more than 60 days and mid-season planted sugarcane more than 30 days.

Considering the temperature rise, milch animals need mineral mixture and hence 50grams of TANUVAS smart mineral mixture per animal per day may be mixed along with animal feed. Since temperature is rising provide enough drinking water.

Considering the dry weather turmeric may be processed and sold

#### SMS advisory

Because of rising temperature sucking pest may appear in transplanted Navarai season rice. To control spray Phosphamidon 40SL @ 600 ml / ha.

#### Tiruppur

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

V-H- Vegetative & Harvest; P+ V - Planting & vegetative; V- P- Vegetative & Picking; H-N-T- Harvest, Nursery & Transplanting; S-Sowing

#### Agro Advisory

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Apply 91Kg N + 37Kg K<sub>2</sub>O per hectare as top dressing followed by irrigation for early season planted sugarcane more than 60 days and mid-season planted sugarcane more than 30 days.

Considering the temperature rise, milch animals need mineral mixture and hence 50grams of TANUVAS smart mineral mixture per animal per day may be mixed along with animal feed. Since temperature is rising provide enough drinking water.

Considering the rising maximum temperature and high morning relative humidity, it is proposed give Foot and Mouth disease vaccination to all cattle and buffalo at Coimbatore and Trippur districts from 1.03.16 to 31.03.16 as 10<sup>th</sup> round. Contact local veterinary staff.

#### SMS advisory

Because of rising temperature sucking pest may appear in transplanted Navarai season rice. To control spray Phosphamidon 40SL @ 600 ml / ha.

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

For next four days, sky will be slightly cloudy. Maximum and minimum temperature will be 33.0°C (91.4°F) and 19.0°C (66.2°F) respectively. Wind speed will be around 6 km/hour, mostly from east. Relative humidity will be in the range of 48 - 70%.

Due to fag end of winter, day and night temperatures are expected raise by 1-2°C. However night time temperature will remain close to 22.0°C (71.6°F), which will be favorable for poultry. Considering the upcoming summer, keep sufficient stock of stress alleviating medicines, clean the side wall wire meshes to facilitate free air circulation into the poultry houses. Also check the drinking water lines for any blocks, to ensure adequate quantity of drinking water available at sufficient pressure.

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 **Ranikhet disease** and **Upper respiratory tract infection**. Hence, farmers are advised to follow appropriate bio-security measures.

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

Cultivated cucurbitaceous vegetables such as bitter guard, ribbed guard and snake guard are found to have **fruit fly** problem. Control the pest by placing “fruit fly trap” at the rate of 5/acre.

