



तमिलनाडु के लिए राज्य स्तरीय समग्र कृषि-मौसम परामर्श बुलेटिन

**State Composite Agro-Meteorological Advisory Bulletin for
Tamil Nadu and Puducherry
Bulletin No. 085/2023**

For the period 0830 IST, 23rd October 2023 to
0830 IST, 28th October 2023

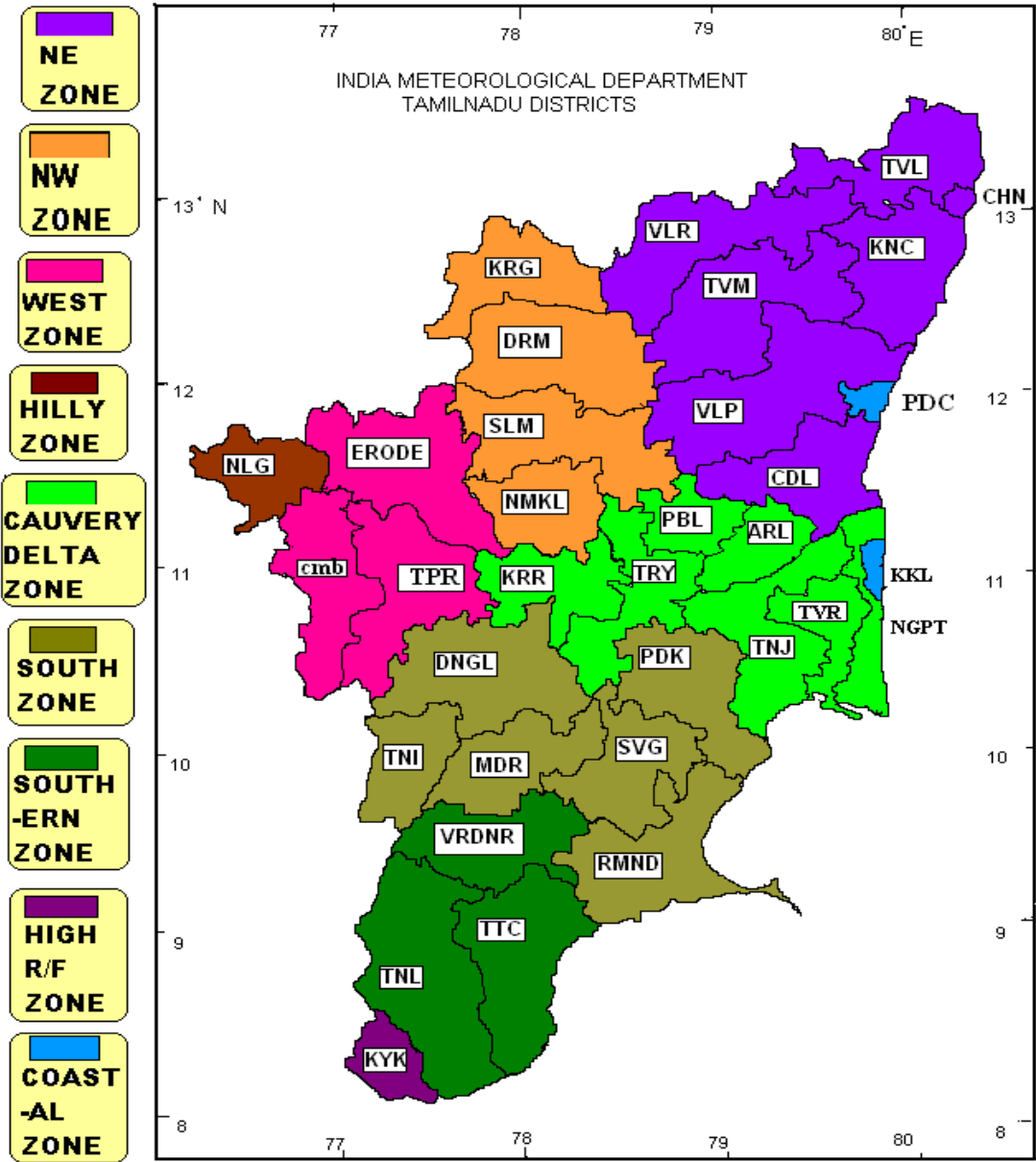
Issued on Monday, 23th October 2023

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, Tiruppur and Coimbatore,	Coimbatore,
4	Cauvery Delta zone	Thanjavur, Nagapattinam, Tiruvarur, Karur, Perambalur, Ariyalur and Tiruchirapalli.	Adudurai
5	Southern zone	Virudhunagar, Tirunelveli and Thoothugudi	Kovilpatti
6	South Zone	Pudukkottai, 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 20.10.23 to 22.10.23 for the State of Tamilnadu & Puducherry

Temperature:

Maximum Temperature of range 30°C – 35°C prevailed over the state. Kodaikanal and Uthagamandalam recorded Maximum temperature range 18°C – 23°C during the period.

Minimum temperature of range 22°C - 27°C prevailed over the State. Kodaikanal and Uthagamandalam recorded Minimum temperature of range 09°C - 13°C during the same period.

Spatial distribution of Rainfall

Spatial distribution of Rainfall	Tamil Nadu	Puducherry
Widespread (Most places)		--
Fairly widespread (Many places)	--	--
Scattered (Few Places)	--	--
Isolated (One or Two Places)	20.10.23, 21.10.23 and 22.10.23	--
Dry		20.10.23 , 21.10.23 and 22.10.23

Chief Amounts of Rainfall (in cms):-

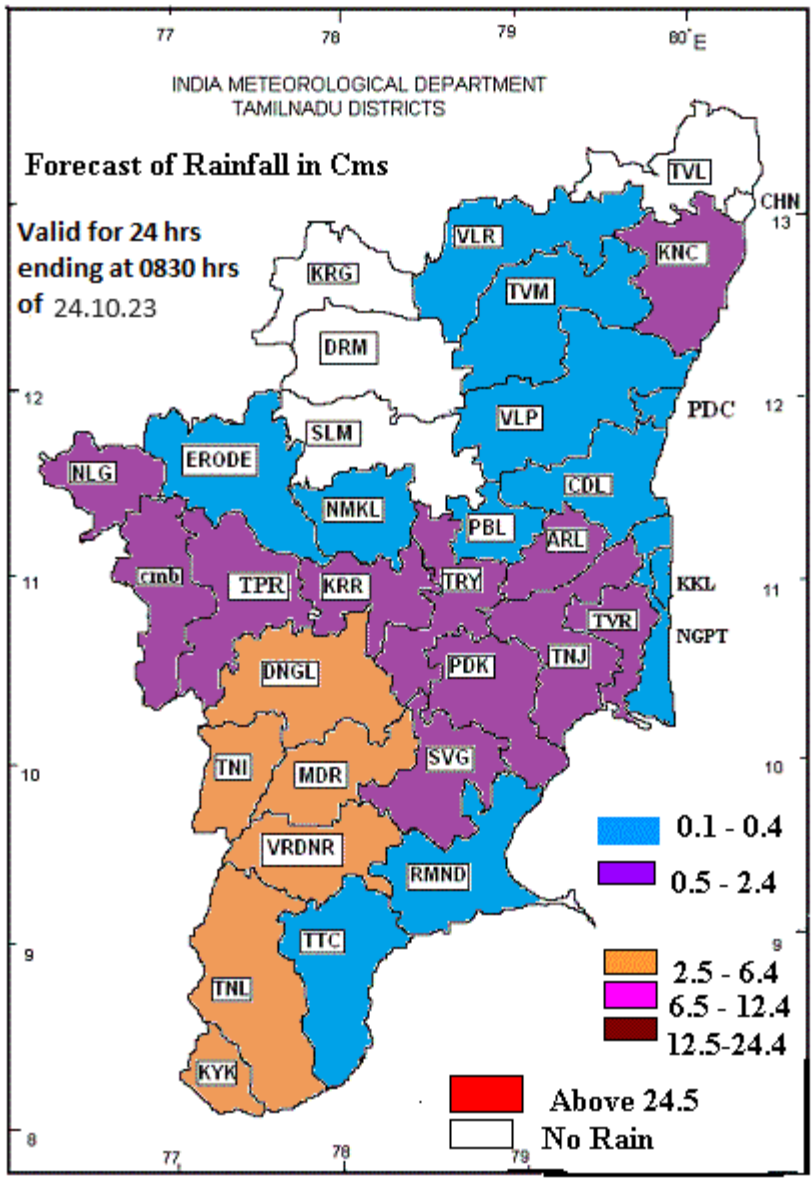
20.10.23 : Kurunthancode (Dist Kanniyakumari), Kottaram (Dist Kanniyakumari), Kanyakumari (Dist Kanniyakumari) 6 each, Nagercoil (Dist Kanniyakumari), Eraniel (Dist Kanniyakumari), Mambzhathuraiyaru (Dist Kanniyakumari), Anaikedanku (Dist Kanniyakumari), Mylaudy (Dist Kanniyakumari) 5 each; Thirupathisaram Aws (Dist Kanniyakumari) 4; Colachel (Dist Kanniyakumari), Rameswaram (Dist Ramanathapuram), Orthanad (Dist Thanjavur) 3 each; Adayamadai (Dist Kanniyakumari), Thuckalay (Dist Kanniyakumari), Kannadaian Anicut (Dist Tirunelveli), Coonoor PTO (Dist The Nilgiris), Kuzhithurai (Dist Kanniyakumari), Bhoothapandy (Dist Kanniyakumari) 2 each; Mullanginavillai (Dist Kanniyakumari), Kannimar (Dist Kanniyakumari), Billimalai Estate (Dist The Nilgiris), Kodavasal (Dist Thiruvarur), Ambasamudram (Dist Tirunelveli), Kalial (Dist Kanniyakumari), Thirparappu (Dist Kanniyakumari), Kozhiporvilai (Dist Kanniyakumari), Suralacode (Dist Kanniyakumari), Aralvaimozhi (Dist Kanniyakumari), Kodumudiyaru Dam (Dist Tirunelveli), Needamangalam (Dist Thiruvarur), Vilupuram (Dist Villupuram), Perunchani Dam (Dist Kanniyakumari) 1 each.

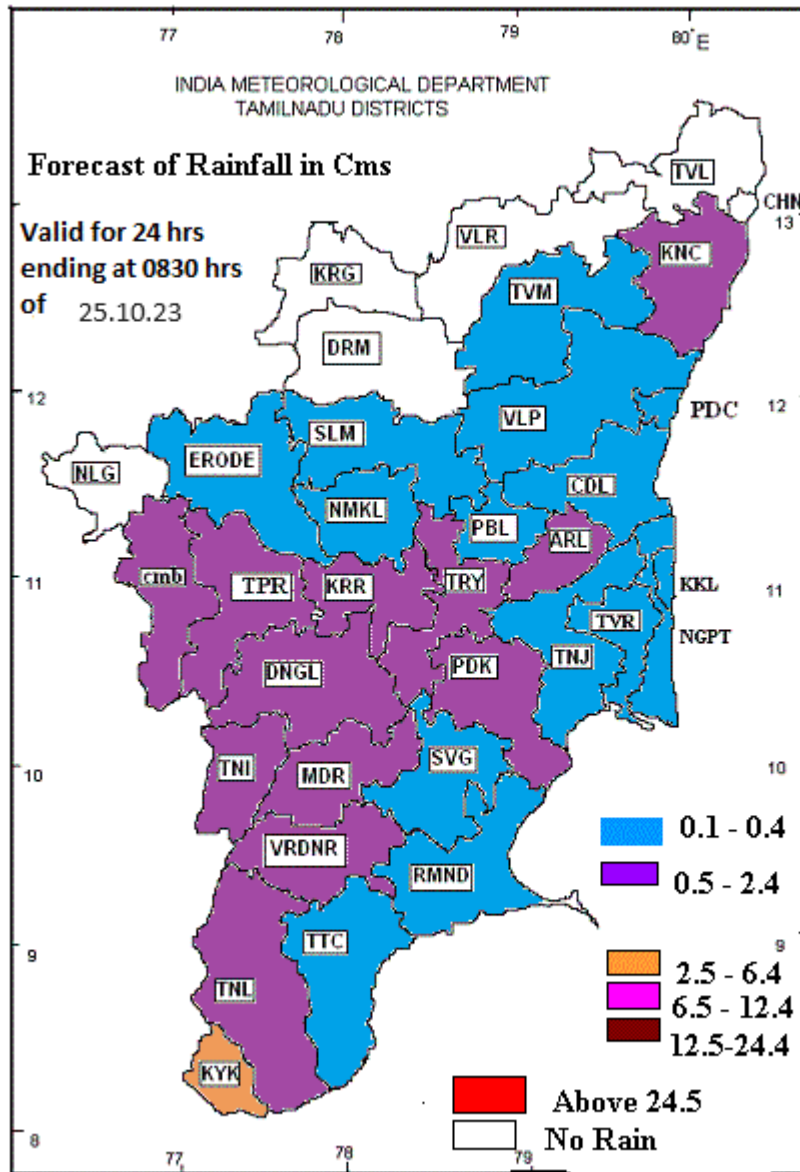
21.10.23 : Kottaram (Dist Kanniyakumari) 7, Kanyakumari (Dist Kanniyakumari), Mambzhathuraiyaru (Dist Kanniyakumari), Radhapuram (Dist Tirunelveli) 5 each, Anaikedanku (Dist Kanniyakumari), Mylaudy (Dist Kanniyakumari), Kundrathur (Dist Kancheepuram) 4 each, Kurunthancode (Dist Kanniyakumari), Aralvaimozhi (Dist Kanniyakumari), Zone 08 Anna Nagar (Dist Chennai), Zone 11 Maduravoyal (Dist Chennai), Zone 11 Valasaravakkam (Dist Chennai), Zone 12 Mugalivakkam (Dist Chennai), Sivalogam (Chittar li) (Dist Kanniyakumari), Zone 10 Kodambakkam (Dist Chennai), Chittar (Dist Kanniyakumari), Nagercoil (Dist Kanniyakumari), Gummidipoondi (Dist Tiruvallur), Zone 06 T.V.K Nagar (Dist Chennai), Chennai Nungambakkam Aws (Dist Chennai), Chennai Nungambakkam (Dist Chennai), Zone 05 Royapuram (Dist Chennai), Zone 01 Thiruvottiyur (Dist Chennai) 3 each, West Tambaram_Sit Arg (Dist Chengalpattu), Zone 09 Teynampet (Dist Chennai), Thirupathisaram Aws (Dist Kanniyakumari), Thuckalay (Dist Kanniyakumari), Zone 04 Tondiarpet (Dist Chennai), Chembarabakkam (Dist Kancheepuram), Zone 01 Alandhur (Dist Chennai), Adayamadai (Dist Kanniyakumari), Chembarabakkam Arg (Dist Kancheepuram), Eraniel (Dist Kanniyakumari) 2 each, Mukkadai Dam (Dist Kanniyakumari), Nanguneri (Dist Tirunelveli), Colachel (Dist Kanniyakumari), DGP Office (Dist Chennai), Royapuram (Dist Chennai), Zone 01 Kathivakkam (Dist Chennai), MGR Nagar (Dist Chennai), Zone 02 Manali (Dist Chennai), Kalakadu (Dist Tirunelveli), Zone 05

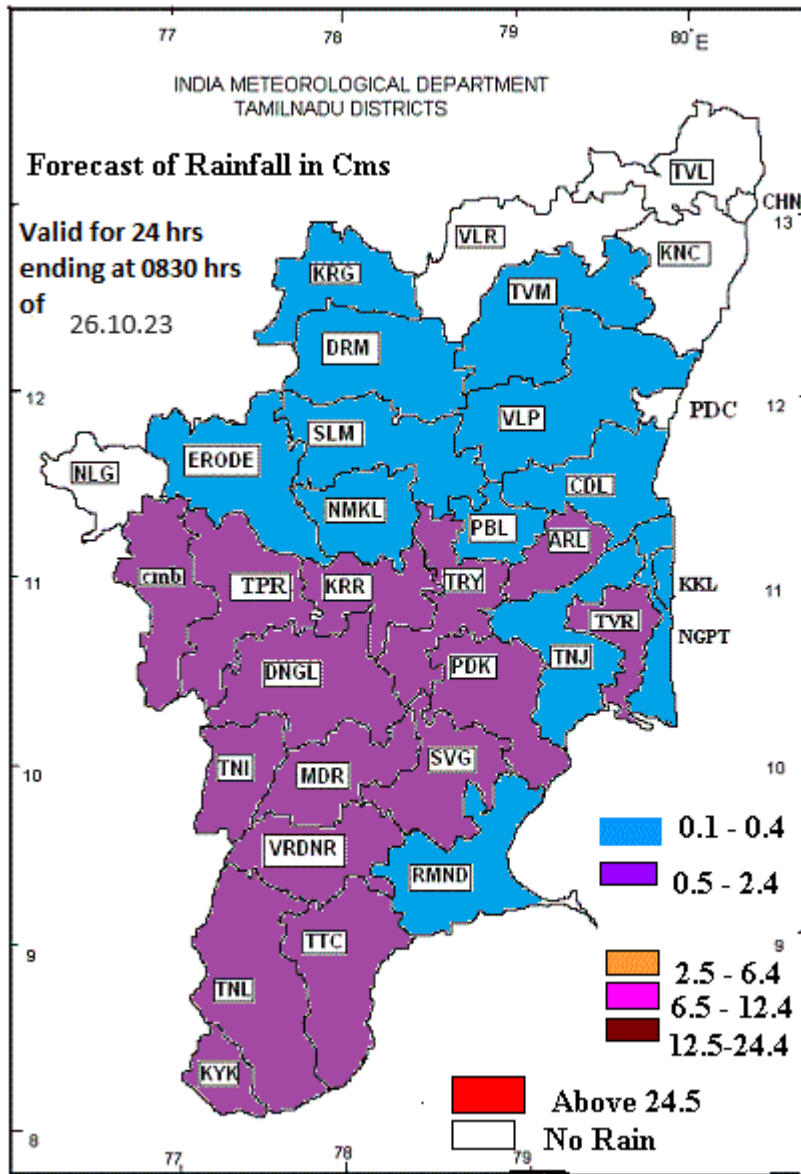
Greater Chennai corporation (Dist Chennai), Zone 2 Meenambakkam (Dist Chennai), Thirparappu (Dist Kanniyakumari), Chennai Airport (Dist Chennai) 1 each.

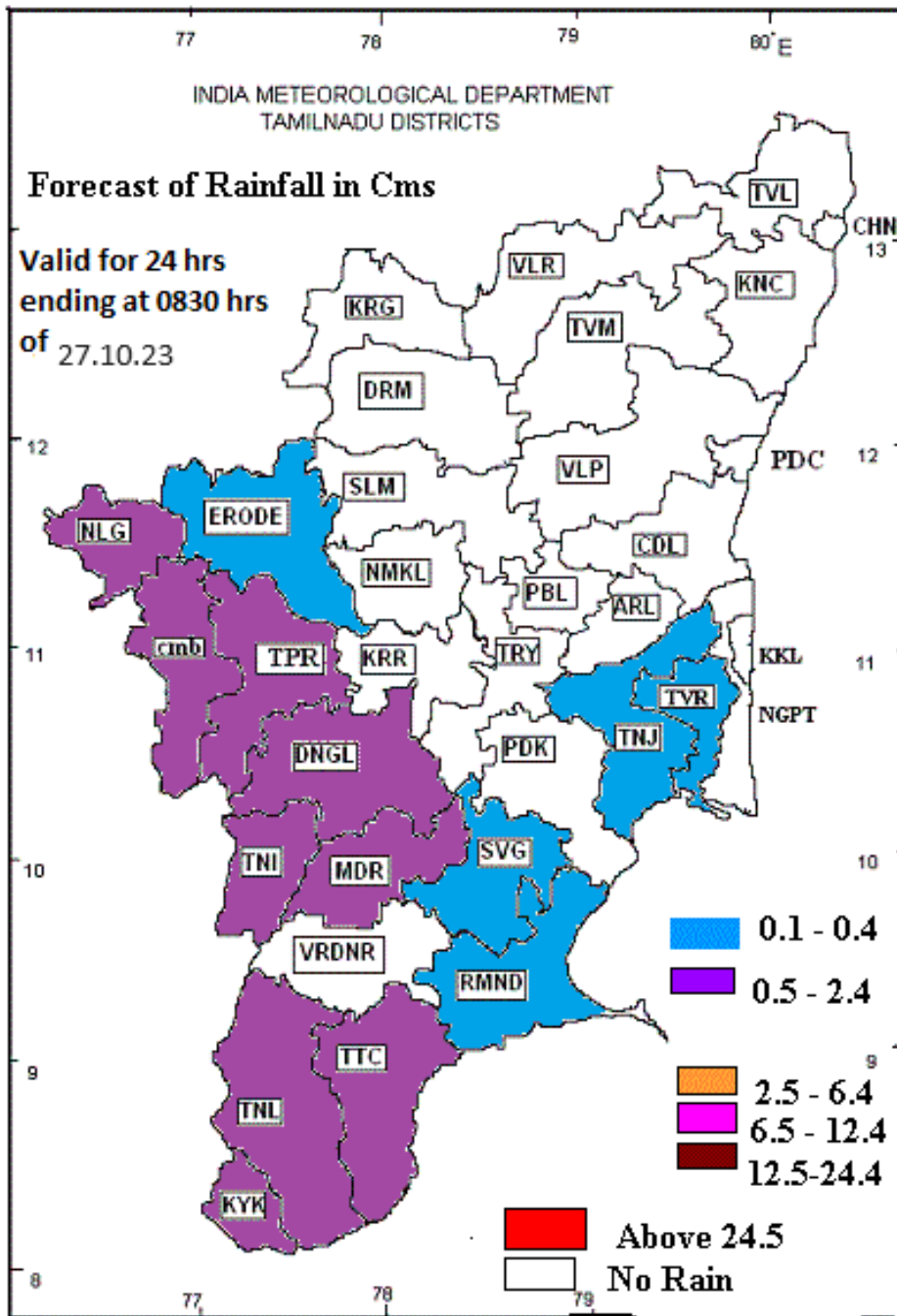
22.10.23 : Ayanavaram Taluk Office (dist Chennai), Melur (dist Madurai) 5 each, Singampunari (dist Sivaganga) 4 each, Tallakulam (dist Madurai), Madurai North (dist Madurai), Thaniamangalam (dist Madurai), Idayapatti (dist Madurai), Kallikudi (dist Madurai), Madurai City (dist Madurai) 3 each, Kariyapatti (dist Virudhunagar), Viraganur (dist Madurai), Mettupalayam (dist Coimbatore), Tirumangalam (dist Madurai), Peraiyur (dist Madurai), Kulithalai (dist Karur), Tiruvarur (dist Tiruvarur), Musiri (dist Tiruchirappalli) 2 each, Marungapuri (dist Tiruchirappalli), Valasaravakkam (dist Chennai), Zone 03 Madhavaram (dist Chennai), Zone 06 D65 Kolathur (dist Chennai), Zone 06 T.V.K Nagar (dist Chennai), Zone 08 Malar Colony (dist Chennai), Zone1 U32 Maduravoyal (dist Chennai), Pulipatti (dist Madurai), Thiruppuvanam (dist Sivaganga), Zone4 Perungudi (dist Chennai), Manapparai (dist Tiruchirappalli), Taluk Office, Kundrathur (dist Kanchipuram), Kovilpatty (dist Tiruchirappalli), Natham (dist Dindigul), Chennai Nungambakkam (dist Chennai), Perambur Corporation Park (dist Chennai), Mandapam (dist Ramanathapuram), Arimalam (dist Pudukkottai), Viralimalai (dist Pudukkottai), Sattur (dist Virudhunagar), Nagudi (dist Pudukkottai), VIT Chennai AWS (dist Chengalpattu), Sirugamanai KVK (dist Trichy) 1 each.

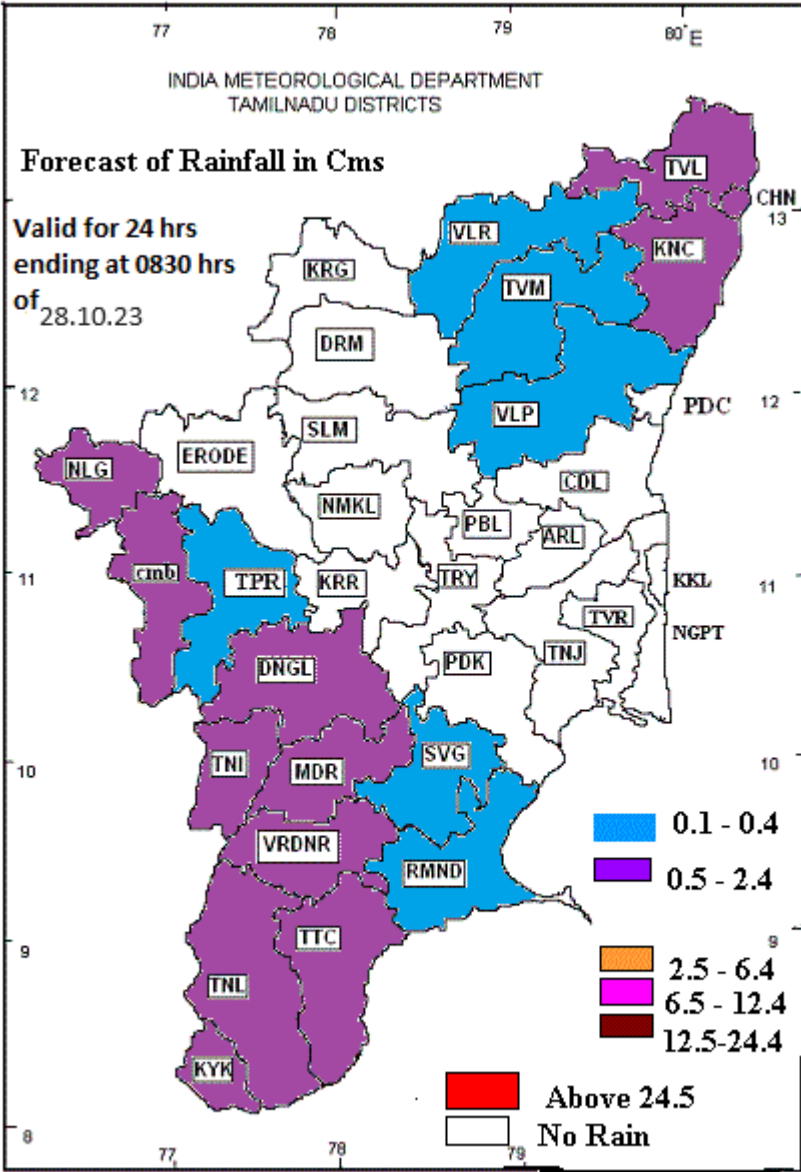
**DISTRICT LEVEL ENSEMBLE WEATHER FORECAST ISSUED ON: 23.10.23
VALID FOR THE NEXT 5 DAYS**











District-wise Agromet Advisories

Chennai

SMS Advisory:

(24.10.2023 - 28.10.2023) Light to moderate rain is likely to occur at one or two places over Tamilnadu.

Livestock Advisory

To avoid the occurrence of milk fever in dairy cattle, feeding of supplementary mineral mixture of 15-30 gms is recommended during pregnancy.

To prevent scabies in rabbit all in all out system has to be followed with adequate ectoparasicide spraying.

Goat kids and calves protect from direct rain, dampness and cold.

Check out for aflotoxicosis in concentrate feed. Addition of toxin binders in feed would prevent this to some extent.

Milk animals should be fed with grass and dry fodder concentrate as per the regular schedule.

Swill (food wastes) fed fattener pigs should be checked out for sanitary swill feeding since spoilt swill will cause intestinal disorder.

Deep litters poultry house should be protected from rain water.

Provision of 5% shell grit to layers improves the egg quality.

Deworming should carried out as per the seasonal schedule.

Kancheepuram

SMS Advisory:

(24.10.2023 - 28.10.2023) Light to moderate rain is likely to occur at one or two places over Tamilnadu.

Livestock Advisory

To avoid the occurrence of milk fever in dairy cattle, feeding of supplementary mineral mixture of 15-30 gms is recommended during pregnancy.

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Deep litters poultry house should be protected from rain water.

Provision of 5% shell grit to layers improves the egg quality.

Deworming should carried out as per the seasonal schedule.

Agricultural advisory Rice:

In rice forecasted weather in conducive for leaf folder infestation. For Management farmers are advised to spray Chlorantraniliprole 18.5% 150 ml/ha.

LadyFinger:

There are possibilities of Powdery mildew disease infestation in Bhendi crops. For management spray inorganic sulphur 0.25% or Dinocap 0.1% 3 or 4 times at 15 days interval.

Brinjal:

There are possibilities of Shoot and fruit borer infestation in Brinjal. For management farmers may spray Emamectin benzoate 5 % SG 4 gram/10 liter of water or Flubendiamide 20 WDG @ 7.5gram / 10 liter of water.

Bottle gourd:

There are possibilities of fruit fly infestation in Cucurbit crops. Farmers are advised to take necessary plant protection measures with the advice of Horticultural officers.

Villupuram

SMS Advisory:

(24.10.2023 - 28.10.2023) Light to moderate rain is likely to occur at one or two places over Tamilnadu.

Livestock Advisory

To avoid the occurrence of milk fever in dairy cattle, feeding of supplementary mineral mixture of 15-30 gms is recommended during pregnancy.

To prevent scabies in rabbit all in all out system has to be followed with adequate ectoparasicide spraying.

Goat kids and calves protect from direct rain, dampness and cold.

Check out for aflotoxicosis in concentrate feed. Addition of toxin binders in feed would prevent this to some extent.

Milk animals should be fed with grass and dry fodder concentrate as per the regular schedule.

Swill (food wastes) fed fattener pigs should be checked out for sanitary swill feeding since spoilt swill will cause intestinal disorder.

Deep litters poultry house should be protected from rain water.

Provision of 5% shell grit to layers improves the egg quality.

Deworming should carried out as per the seasonal schedule.

Agricultural advisory Rice:

Due to prevailing weather condition leaf folder and stem borer infestation is found in paddy crop. To manage them, spray carbosulfan 400 ml/ac or cartap hydrochloride 600 g/ac during morning or evening hours, Due to prevailing weather condition possible for thrips infestation in paddy crop. To manage them, spray thiamethoxam 8.0g/ for 20 cent of nursery field. In transplanted field spray Azadiractin 400 ml/acre or thiamethoxam 40 g/ac

Sugarcane:

Crown mealy bug and pokkahboeng disease of sugarcane observed in field. Symptoms are stunted growth, terminal shoot drying, yellowing of leaf and weakening of cane. To control follow integrated management practices.

Sett treatment - carbendazim 50 WP @ 2 g/lit for 30 min & imidacloprid 70 WS @ 1.5 ml/lit. for 5 min before planting,

Monitor ant movement in the border rows at regular intervals,

Prophylactic measure - in endemic area, field borders (3 rows) spray imidacloprid 17.8 SL @ 3 ml/10 lit (or)

chlorantraniliprole 18.5 SC 4 ml /10 lit (or) clothianidin 50 WDG @ 5g/10 lit (or) spirotetramet 150 OD @ 12.5 ml/10 lit (or) Flonicamid 50% WG @ 3 g/10 lit. If

infestation crosses ETL (10%), the insecticide application should be repeated at 20 days interval with rotation of above insecticides. Before spraying ensure de-trashing and it should be done at 5 months after planting.

If Pokkahboeng noticed, spray carbendazim 50 WP @ 2 g/lit or propiconazole 25 EC @ 2 ml/lit + sticking agent @ 1 ml/lit 3 times at 20 days interval. Spray should be directed towards central whorl for better control

Ratoon cropping should be discouraged after two ratooning in the endemic areas

Maize:

Maize growing farmers the fall army worm infection apply neem cake @ 250 kg/ha (farmer contribution)

Seed treatment with cyantraniliprole 19.8% + thiamethoxam 19.8 FS @ 4.0 ml/kg seed Border cropping with gingelly or cowpea or sorghum

Installation of pheromone traps @ 12 nos./ha

Spraying of chlorantraniliprole 18.5 SC @ 0.4 ml/l (or) flubendiamide 20 WG (0.5 g/l) at 15-20 days of emergence (DAE)

Application of emamectin benzoate 5 SG (0.4 g/l) or spinetoram 11.7 SC (0.5 ml/l) at 35-40 DAE at late whorl stage and 60 DAE.

Tiruvannamalai

SMS Advisory:

(24.10.2023 - 28.10.2023) Light to moderate rain is likely to occur at one or two places over Tamilnadu.

Livestock Advisory

To avoid the occurrence of milk fever in dairy cattle, feeding of supplementary mineral mixture of 15-30 gms is recommended during pregnancy.

To prevent scabies in rabbit all in all out system has to be followed with adequate ectoparasicide spraying.

Goat kids and calves protect from direct rain, dampness and cold.

Check out for aflotoxicosis in concentrate feed. Addition of toxin binders in feed would prevent this to some extent.

Milk animals should be fed with grass and dry fodder concentrate as per the regular schedule.

Swill (food wastes) fed fattener pigs should be checked out for sanitary swill feeding since spoilt swill will cause intestinal disorder.

Deep litters poultry house should be protected from rain water.

Provision of 5% shell grit to layers improves the egg quality.

Deworming should carried out as per the seasonal schedule.

Rice:

Agricultural advisory

For nursery land preparation, to prevent soil borne diseases and better establishment of seedlings apply Azospirillum 2.5 kg mixed with 25 kg of soil.

Prevailing weather condition is favourable for blast/sheath blight/sheath rot diseases in rice. To prevent this, spray propiconazole 1g/litre or bacillus subtilis 10g/acre after first and second hand weeding.

Sugarcane:

A tonic with nutrients and growth regulators for sugarcane spray the TNAU sugarcane Booster at 45, 60 and 75 days after planting spray booster at 1kg, 1.5kg and 2kg respectively and add required quantity of sticking agent.

Banana:

To control wilt in banana, apply Bacillus subtilis and Trichoderma viride @ 1 kg/acre. or drenching with Bacillus subtilis 5 ml/litre.

Coconut:

To control Rugose Spiraling Whitefly in coconut, release of Encarsia guadeloupae @ 100 parasitoids /ac (10 leafbits/ac), spray neem oil@10ml or azadiractin 1%@5ml/litre or Installation of yellow sticky traps (5ft. X 1.5 ft.) smeared with castor oil @ 5ml ac. To control rhinoceros beetle, setup Rhino lure pheromone trap @ 2 traps/acre.

Vellore

As per the IMD extended range forecast (ERF), above normal rainfall and normal temperature is likely over Tamil Nadu and Puducherry during 25th to 31st October, 2023. After harvesting of the groundnut field, soil application of Trichoderma viride 1kg /ac mixed with 50 kg FYM during last or first ploughing to rectify/control soil born pathogen.

SMS Advisory:

Light rainfall with dry weather may be expected on forthcoming days. So, farmers are advised to irrigate the field based on soil moisture.

Crop Specific Advisory:

Crop(Varieties)	Crop Specific Advisory
RICE	For nursery land preparation, to prevent soil borne diseases and better establishment of seedlings apply Azospirillum 2.5 kg mixed with 25 kg of soil. Prevailing weather condition is favourable for blast/sheath blight/sheath rot diseases in rice. To prevent this, spray propiconazole 1g/litre or bacillus subtilis 10g/acre after first and second hand weeding
SUGARCANE	A tonic with nutrients and growth regulators for sugarcane spray the TNAU sugarcane Booster at 45, 60 and 75 days after planting spray booster at 1kg, 1.5kg and 2kg respectively and add required quantity of sticking agent.
Horticulture(Va	Horticulture Specific Advisory
BANANA	To control wilt in banana, apply Bacillus subtilis and Trichoderma viride @ 1 kg/acre. or drenching with Bacillus subtilis 5 ml/litre.
COCONUT	To control Rugose Spiraling Whitefly in coconut, release of Encarsia guadeloupae @ 100 parasitoids /ac (10 leafbits/ac), spray neem oil@10ml or azadiractin 1% @5ml/litre or Installation of yellow sticky traps (5ft. X 1.5 ft.) smeared with castor oil @ 5ml ac. To control rhinoceros beetle, setup Rhino lure pheromone trap @ 2 traps/acre
Live Stock(Varieties)	Live Stock Specific Advisory
COW	The floors in the livestock shelter must be cleaned and maintained damp free to prevent water logging. Moreover the floors must be sprinkled with bleaching powder to maintain bio security in farm.
GOAT	Vaccinate against P.P.R and enterotoxemia.
Poultry(Varieties)	Poultry Specific Advisory
HEN	Maintain deep litter as dry (if moisture, mix with lime powder).

Cuddalore

From extended range forecast above normal rainfall, normal maximum temperature and minimum temperature expected for the period of 25.10.2023 to 31.10.2023 over Tamil Nadu.

Light rainfall will be expected in the forthcoming days, farmers are advice to irrigate crop based on the soil moisture.

Crop(Varieties)	Crop Specific Advisory
RICE	Due to prevailing weather condition favorable for algae formation in paady field. To control follow alternate wetting and drying method and use cono weeder or rotary weeder for removing weeds and algae formation in field. Apply 1.0 kg/acre of copper sulphate mix with 10 kg of sand in gunny bags and put in irrigation channel and provide irrigation.
RICE	Due to prevailing weather condition favorable for leaf folder and stem borer infestation is found in paddy crop. To manage them, spray carbosulfan 400 ml/ac or cartap hydrochloride 600 g/ac during morning or evening hours.
SUGARCANE	Due to prevailing weather conditions favorable for internode borer infestation is found in sugarcane crop. To manage Release of Trichogramma chilonis egg parasitoid at the rate of 2.5 cc/release/ha (Six releases at 15 days interval starting from fourth month) is recommended for the control of internode borer. It is available in Department of Agricultural Entomology, TNAU, Coimbatore.
SUGARCANE	Due to prevailing weather conditions favorable for leaf hopper infestation is found in sugarcane crop. To control spray Chlorpyriphos 20 % EC @ 1.50 lit at 150 and 210 DAP /ha and after detrashing.

MAIZE	1. Maize growing farmers the fall army worm infection apply neem cake @ 250 kg/ha (farmer contribution) 2. Seed treatment with cyantraniliprole 19.8% + thiamethoxam 19.8 FS @ 4.0 ml/kg seed 3. Border cropping with gingelly or cowpea or sorghum 4. Installation of pheromone traps @ 12 nos./ha 5. Spraying of chlorantraniliprole 18.5 SC @ 0.4 ml/l (or) flubendiamide 20 WG (0.5 g/l) at 15-20 days of emergence (DAE) 6. Application of ememectin benzoate 5 SG (0.4 g/l) or spinetoram 11.7 SC (0.5 ml/l) at 35-40 DAE at late whorl stage and 60 DAE.
Horticulture(Varie	Horticulture Specific Advisory
COCONUT	1. Installation of yellow sticky traps on the palm trunk to trap the adult whiteflies. 2. Encourage build up of parasitoids (Encarsia sp.) and reintroduce parasitized pupae of emerging zones of whitefly outbreak. 3. In sever case, spray neem oil 10 ml/lit of water or spray azadirachtin 2.0 ml/lit of water with 1.0 ml of sticking agent.

Coimbatore

Agro Advisory

Crop	Stage	Advisory
General		North east monsoon has sets during the last week, Hence farmers are requested to take up sowing of rainfed crops when sufficient rainfall is received. Crops sown already Provide adequate drainage to all the crops. Light rainfall is expected for next five days with wind speed of 2-6 km/hr in western zone districts. By utilizing the rainfall fertilizer may be applied to all the rainfed crops.
Cotton	Flowering	Prevailing high relative humidity is also favourable for black arm disease in cotton hence farmers are requested to monitor the crop and if necessary, spray mixture of tetracycline 100 gm + copper oxychloride 1200 gm / ha during non rainy day.
Gourds	Flowering	Prevailing weather is favourable for more vegetative growth in gourds at flowering stage. Application of Ethrel @ 100ppm for all gourds and 200 ppm for ribbed gourd is recommended to induce flowers and fruit set.
Papaya		Prevailing continues rainfall leads to water stagnation and Phytophthora root rot incidence may appear in papaya. Provide drainage followed by trenching with Bordeaux mixture @ 1%.
Turmeric	Vegetative	Prevailing weather condition is also favourable for blotch disease in turmeric. Hence farmers are requested to monitor the crop carefully & if necessary, spray Azoxystropin @ 1ml / liter of water.
Animal Husbandry		Since rainfall is expected drainage in and around cattle and poultry sheds may be provided to avoid water stagnation. Further farmers are requested to safeguard the feed and fodder material from rain soaking. Considering the rainfall and high relative humidity, dry feed may be provided to the

		animals and poultry against aflatoxin contamination.
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SMS advisory

- By utilizing the rainfall fertilizer may be applied to all the rainfed crops.

Erode

Agro Advisory

Crop	Stage	Advisory
General		<p>North east monsoon has sets during the last week, Hence farmers are requested to take up sowing of rainfed crops when sufficient rainfall is received. Crops sown already Provide adequate drainage to all the crops.</p> <p>Light rainfall is expected for next five days with wind speed of 2-6 km/hr in western zone districts.</p> <p>By utilizing the rainfall fertilizer may be applied to all the rainfed crops.</p>
Cotton	Flowering	<p>Prevailing high relative humidity is also favourable for black arm disease in cotton hence farmers are requested to monitor the crop and if necessary, spray mixture of tetracycline 100 gm + copper oxychloride 1200 gm / ha during non rainy day.</p>
Gourds	Flowering	<p>Prevailing weather is favourable for more vegetative growth in gourds at flowering stage. Application of Ethrel @ 100ppm for all gourds and 200 ppm for ribbed gourd is recommended to induce flowers and fruit set.</p>
Papaya		<p>Prevailing continues rainfall leads to water stagnation and Phytophthora root rot incidence may appear in papaya. Provide drainage followed by trenching with Bordeaux mixture @ 1%.</p>
Turmeric	Vegetative	<p>Prevailing weather condition is also favourable for blotch disease in turmeric. Hence farmers are requested to monitor the crop carefully & if necessary, spray Azoxystropin @ 1ml / liter of water.</p>
Animal Husbandry		<p>Since rainfall is expected drainage in and around cattle and poultry sheds may be provided to avoid water stagnation. Further farmers are requested to safeguard the feed and fodder material from rain soaking.</p> <p>Considering the rainfall and high relative humidity, dry feed may be provided to the animals and poultry against aflatoxin contamination.</p>

SMS advisory

- By utilizing the rainfall fertilizer may be applied to all the rainfed crops.

Tiruppur

Agro Advisory

Crop	Stage	Advisory
General		North east monsoon has sets during the last week, Hence farmers are requested to take up sowing of rainfed crops when sufficient rainfall is received. Crops sown already Provide adequate drainage to all the crops. Light rainfall is expected for next five days with wind speed of 2-6 km/hr in western zone districts. By utilizing the rainfall fertilizer may be applied to all the rainfed crops.
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Papaya		Prevailing continues rainfall leads to water stagnation and Phytophthora root rot incidence may appear in papaya. Provide drainage followed by trenching with Bordeaux mixture @ 1%.
Animal Husbandry		Since rainfall is expected drainage in and around cattle and poultry sheds may be provided to avoid water stagnation. Further farmers are requested to safeguard the feed and fodder material from rain soaking. Considering the rainfall and high relative humidity, dry feed may be provided to the animals and poultry against aflatoxin contamination.

SMS advisory

- By utilizing the rainfall fertilizer may be applied to all the rainfed crops.

Dindigul

General Advisory:

Heavy rain is likely to occur at isolated places over the district on 24 October 2023. Farmers are advised to act swiftly to repair the water channels, farm ponds and other water bodies to harvest the rain water. During these days farmers are advised to avoid irrigation, intercultural operations and application of plant protection measures to the standing crops, provide adequate drainage facilities in the fields to avoid water stagnation due to heavy rainfall, do not allow the animals to grazing outside, standing near the trees or electric poles & provide safe shelter.

SMS Advisory	Chances of Rather heavy rain on 24 Oct & Moderate rain during 25, 26, 27, 28. Maximum temperature would be in the range of 32°C to 34°C and the minimum temperature would be between 22°C - 24°C. Generally cloudy sky will appear for the next five days. Wind expected with the speed of 2-5 Kmph from, North, East & Northeast directions.
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Weather Based Agro-Advisories: (Coconut, Maize & Animal Husbandry).

Coconut:

There is a possibility of the occurrence of Thanjavur Wilt disease in coconut crops. This disease spread faster from July to November.

Initial symptoms of Thanjavur Wilt start with yellowing and drooping of the outer whorl of leaves followed by exudation of reddish brown liquid through cracks at the base of the trunk and oozing spread upwards. Decaying of tissues at the bleeding point and rotting of the basal portion of the stem.

To control this, mix and apply *Pseudomonas fluorescence* @ 200gm + *Phosphobacter* @ 200gm + *Azotobacter* @ 200gm with 50kg of FYM per tree.

Mix 5kg of Neem cake with 50kg of FYM per tree and apply it in six-month intervals.

Maize:

There is a chance of incense of Fall Armyworm in Maize fields. It spreads widely in the field. The larvae feed on the young growing shoots resulting in heavy shoot damage.

To control this install Pheromone trap @ 5-6 Nos per acre.

Also, Erect bird perches @ 10Nos.per acre.

Add *Metarhizium Anisopliae* or *Beauveria Bassiana* @ 70gms or 70ml per 10 litres of water with Jaggery @ 50gms and Sticky agent @ 10ml, stir well, remove the nozzle and spray the solution on the top of the shoot during the non-rainy days.

Or using the chemical method, spray the following insecticides Emamectin benzoate 5SG @10gm (Promactin) and Permethrin @ 25ml + 10ml Sticky agent with 10 litres of water, stir well and spray the solution on the top of the shoot during the non-rainy days.

Animal Husbandry:

Necrotic enteritis is caused by *Clostridium perfringens* type, ubiquitous bacteria, found in soil, dust, faces, feed, and used poultry litter.

It is also a normal inhabitant of the intestines of healthy chickens. Enterotoxaemia occurs due to sudden changes in feed or damage to the intestinal mucosa (eg. coccidiosis, mycotoxicosis, salmonellosis, worm infestation).

During the rainy season and ensuing winter season high stocking density predispose the birds to coccidiosis and Necrotic Enteritis. Reduce feeding the high dietary levels of dry fish, fishmeal and wheat.

The chances of growth of coccidial oocysts as well as the *Clostridium perfringens* and *Ecoli* are more during the rainy season.

The enterotoxaemia, can be prevented by using good quality feed ingredients free from mycotoxins and deworming of the desi birds. Similarly, the litter moisture should be kept low.

Madurai

General Advisory:

Heavy rain is likely to occur at isolated places over the district on 24 October 2023. Farmers are advised to act swiftly to repair the water channels, farm ponds and other water bodies to harvest the rain water. During these days farmers are advised to avoid irrigation, intercultural operations and application of plant protection measures to the standing crops, provide adequate drainage facilities in the fields to avoid water stagnation due to heavy rainfall, do not allow the animals to grazing outside, standing near the trees or electric poles & provide safe shelter.

SMS Advisory	Chances of Rather heavy rain on 24 Oct & Moderate rain on 26, 27. Maximum temperature would be in the range of 32°C to 34°C and the minimum temperature would be between 22°C - 24°C. Generally cloudy sky will appear for the next five days. Wind expected with the speed of 2-5 Kmph from, North, East & Northeast directions.
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Weather Based Agro-Advisories: (Paddy, Black gram & Animal Husbandry).

Paddy:

The incidence of Paddy Leaf folder expected in Paddy crop, the symptoms are leaves folding longitudinally and larvae remaining inside. Larvae scrap the green tissue of the leaves and become white and dry. During a severe infestation, the whole field exhibits a scorched appearance.

To control this, tie Trichogramma egg parasitoid cards @ 5cc per acre, thrice at the 37th, 44th, and 51st days after transplanting.

Avoid excessive application of urea.

Install Light trap at 1No. per acre.

Spray NSKE @ 5ml per litre of water or spray Chlorpyrifos 20 EC @ 5ml per litre of water.

Black gram:

A foliar spray of 1% urea may give better results for improved yield in black gram.

A foliar spray of 1% urea on 30th and 45th day after sowing.

Or foliar spray of 2% DAP can be given to the Blackgram crop.

Animal Husbandry:

Necrotic enteritis is caused by Clostridium perfringens type, ubiquitous bacteria, found in soil, dust, faces, feed, and used poultry litter.

It is also a normal inhabitant of the intestines of healthy chickens. Enterotoxaemia occurs due to sudden changes in feed or damage to the intestinal mucosa (eg. coccidiosis, mycotoxicosis, salmonellosis, worm infestation).

During the rainy season and ensuing winter season high stocking density predispose the birds to coccidiosis and Necrotic Enteritis. Reduce feeding the high dietary levels of dry fish, fishmeal and wheat.

The chances of growth of coccidial oocysts as well as the Clostridium perfringens and Ecoli are more during the rainy season.

The enterotoxaemia, can be prevented by using good quality feed ingredients free from mycotoxins and deworming of the desi birds. Similarly, the litter moisture should be kept low.

Pudukottai

General Advisory:

Farmers are advised to harvest the matured paddy as soon as possible.

SMS Advisory:

To control Hadda beetle incidence in Brinjal, spray Acepate @ 2 gm /litre.

Crop(Varieties)	Crop Specific Advisory
RICE	Rainfed paddy -After cultivation with the expected rain. Mix 10 kg of Azospirillum (1000 kg / ha) and 10 packets of Phosphobacteria (2000 kg / ha) or Azophos (4000 kg / ha) with 25 kg of FYM and 25 kg of soil and spray after the first rains in the
Horticulture(V	Horticulture Specific Advisory
COCONUT	By using this weather condition, root feeding of TNAU coconut tonic @200ml/palm is advised in nut bearing coconut trees.
BANANA	Due to high clouds and humidity in the air, cigarette butts are prone to gray rot. If necessary, mix 2 g of Mancozeb and spray.
Live Stock(Varieties)	Live Stock Specific Advisory
GOAT	During the monsoon season, cows and goats should be kept away from the pond to prevent them from being attacked by flatworms.
COW	For a dairy cow that can produce 10 liters of milk per day at 14 cents ie Cumbu Napier Co (BN 5) hybrid grass - 9 cents and(Velimasal Co 2) 5 cents can be used to produce milk
Poultry(Varieti	Poultry Specific Advisory
CHICK	Farmers are advised to prevent Chick from Chick diarrhea disease, separate the diseased chick and care. Allow the Chicks to drink the medicated water for 5 days during morning and evening hours with combination of 1 liter of water and 2gm Microzal powder or 2gm Bactrisol powder mix with 5 ml of Vimeral syrup.
Others (Soil / Land Preparation) (Varieties)	Others (Soil / Land Preparation) Specific Advisory
GENERAL ADVICE	Concentrated fodder maize, and sorghum varieties should be stored without moisture. Fodder bags should be stacked on logs. Do not store fodder bags near to the wall.The dining room should be airtight Concentrated feed preparation is best only once in 15 days during the rainy season Cereals such as corn, and Cumbu,peanuts, sesame seeds, should be well dried and then ground (moisture should be very low).
GENERAL ADVICE	Cloudy weather and continuous rains is favorable for pest and disease incidence for all crops. Farmers are advised to morning and evening monitor their field and take necessary plant protection measures based on symptoms of damage.

Ramanathapuram

General Advisory:

From extended range forecast, above normal rainfall, normal maximum and minimum temperature expected for the period of October 25 to October 31 over Tamil Nadu.

SMS Advisory:

Farmers are advised to sow short duration and drought tolerant rice varieties like Thirurkuppam 15, Aduthurai 53, Coimbatore 53 and Coimbatore 55.

Crop(Varieties)	Crop Specific Advisory
RICE	Farmers are advised to harden the seed in case of rain fed direct sowing of paddy. For seed hardening, one kg of seed should be soaked in a one per cent potassium chloride solution (10 g in a liter of water) for 16 hours and then dried in the shade until it returns to its original moisture content.
RICE	In case of rain fed direct seeding of paddy, the use of mechanized sowing facilitate the possibility of maintaining the proper depth, spacing and minimize the crop loss due to dry spell.
RICE	For optimal crop growth, it is recommended that apply 10 kg of Zinc sulfate and 25 kg of ferrous sulfate or 5 kg of TNAU MN mixture per acre.
RICE	In rainfed rice cultivation, it is recommended for farmers to apply 100kg/ac of single super phosphate as a basal dose.
Crop(Varieties)	Crop Specific Advisory
RICE	For rain fed rice cultivation, it is advised that farmers apply Urea @ 25 kg and Potash @ 10 kg per acre, as the first dose, between 20 to 25 days after
RICE	Spray early post emergence herbicide Bispyribacsodium 10% SC @ 80 ml/acre using hand sprayer for effective control of weed density.
Horticulture(Va	Horticulture Specific Advisory
COCONUT	Due to the prevailing weather condition, incidence of red palm weevil expected in coconut. The damage symptoms are holes can be seen on the stem with chewed up fibres protruding out and reddish brown liquid can be seen oozing out from the hole. If symptoms are observed in coconut tree, spot application with insecticidal solution containing Imidacloprid 17.8% SL @ 1 ml with 1 liter of water.
COCONUT	Due to the prevailing weather condition, incidence of thanjore wilt is expected in coconut. Initial symptoms of Thanjore wilt start with yellowing and drooping of the outer whorl of leaves followed by exudation of reddish brown liquid through cracks at the base of the trunk and decaying of tissues at bleeding point. To manage the wilt, spray Hexaconazole 5 SC 2 ml with 100 ml of water applied as root feeding (3 times at 3 months interval).

Sivagangai

General Advisory:

Since light to Moderate rainfall is expected for the next five days, Farmers are advised to act swiftly to repair the water channels, farm ponds and other water bodies to harvest the rain water. During these days farmers are advised to avoid irrigation, inter-cultural operations and application of plant protection measures to the standing crops, provide adequate drainage facilities in the fields to avoid water stagnation due to heavy rainfall, do not allow the animals to grazing outside, standing near the trees or electric poles & provide safe shelter.

SMS Advisory	Chances of light to Moderate rain during the next five days. Maximum temperature would be in the range of 32°C to 34°C and the minimum temperature would be between 22°C - 24°C. Generally cloudy sky will appear for the next five days. Wind expected with the speed of 2-5 Km/h from, North, East & Northeast directions.
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It is expected to receive rainfall in the forthcoming days. Hence the vegetable, fruit, and flower cultivating farmers are requested to carry out top dressing of manure followed by the earth-up operation.

Weather Based Agro – Advisories: (Important Crops: Tomato, Onion & Animal Husbandry)

Tomato:

The incidence of Damping-off in Tomato. Damping-off of tomatoes occurs in two stages, i.e. the pre-emergence and the post-emergence phase.

To manage this use raised seedbed. Provide light but frequent irrigation for better drainage. Drench with copper oxychloride @ 2gm/ltr.

Seed treatment with fungal culture *Trichoderma viride* (4g/kg of seed) is the only preventive measure to control the pre-emergence damping off.

Spray 2gm Metalaxyl /litre when there is cloudy weather. Spraying activities should be done during the non-rainy days.

Onion:

The incidence of Basal Rot is expected, in Onions. The leaves turn yellow and then dry up slowly. The affected plant shows drying of the leaf tip downwards.

The entire plant shows complete drying of the foliage. The bulb of the affected plant shows soft rotting and the roots get rotted. There will be a whitish moldy growth on the scale.

Growers must follow crop rotation.

At the initial stage of the disease, spray 40gm of *Trichoderma Viride* per tank.

During the severe stage of the disease, spray 30gm Copper oxychloride with 10 liters of water.

Animal Husbandry:

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It is also a normal inhabitant of the intestines of healthy chickens. Enterotoxaemia occurs due to sudden changes in feed or damage to the intestinal mucosa (eg. coccidiosis, mycotoxicosis, salmonellosis, worm infestation).

During the rainy season and ensuing winter season high stocking density predispose the birds to coccidiosis and Necrotic Enteritis. Reduce feeding the high dietary levels of dry fish, fishmeal and wheat.

The chances of growth of coccidial oocysts as well as the *Clostridium perfringens* and *E. coli* are more during the rainy season.

The enterotoxaemia, can be prevented by using good quality feed ingredients free from mycotoxins and deworming of the desi birds. Similarly, the litter moisture should be kept low.

Theni

General Advisory:

Heavy rain is likely to occur at isolated places over the district on 24 October 2023. Farmers are advised to act swiftly to repair the water channels, farm ponds and other water bodies to harvest the rain water. During these days farmers are advised to avoid irrigation, intercultural operations and application of plant protection measures to the standing crops,

provide adequate drainage facilities in the fields to avoid water stagnation due to heavy rainfall, do not allow the animals to grazing outside, standing near the trees or electric poles & provide safe shelter.

SMS Advisory	Chances of Rather heavy rain on 24 Oct & Moderate rain on 25, 26. Maximum temperature would be in the range of 32°C to 33°C and the minimum temperature would be between 22°C - 23°C. Generally cloudy sky will appear for the next five days. Wind expected with the speed of 2-5 Kmph from, North, East & Northeast directions.
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Weather Based Agro-Advisories: (Jasmine, Pulses & Animal Husbandry)

Jasmine:

The incense of Blossom midge found in Jasmine. The maggots of the blossom midge enter into the buds at the base of the corollas which results in swelling at the base of the buds.

The infestation leads to stunting and drying of plants or leads to stunted growth and ultimately drying of plants.

To control spray Thiamethoxam 2.5% WG @ 0.75 g/litre or Novaluron @ 3 ml/lit.

Pulses:

The incense of yellow mosaic seen in pulses.

Farmers are advised to set up a yellow sticky trap @ 5No. per acre to monitor and manage the movements of the vector whitefly.

If the vector population noticed, spray Imidachlopride @ 100gm/acre to manage the vector whitefly.

Animal Husbandry:

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It is also a normal inhabitant of the intestines of healthy chickens. Enterotoxaemia occurs due to sudden changes in feed or damage to the intestinal mucosa (eg. coccidiosis, mycotoxicosis, salmonellosis, worm infestation).

During the rainy season and ensuing winter season high stocking density predispose the birds to coccidiosis and Necrotic Enteritis. Reduce feeding the high dietary levels of dry fish, fishmeal and wheat.

The chances of growth of coccidial oocysts as well as the Clostridium perfringens and Ecoli are more during the rainy season.

The enterotoxaemia, can be prevented by using good quality feed ingredients free from mycotoxins and deworming of the desi birds. Similarly, the litter moisture should be kept low.

Salem

Weather Advisory Bulletin for livestock, poultry and agro advisory

Livestock, Poultry and Crop	Stage	Weather advisory
Agro advisory from Krishi Vigyan Kendra, Salem:		
Turmeric	Vegetative	Due to continuous rainfall and stagnation of water nutrient deficiency and rhizome rot may

		occur in turmeric. Hence provide proper drainage to save the crop from damage.
Tapioca	Vegetative	Provide drainage facilities to avoid water stagnation and rotting of rhizome in tapioca.
Livestock	General	Due to rain fall event cattle shed and cow penning areas probably in moist condition. So kindly keep the cattle shed in dry condition and use disinfectant like lime.
Poultry	General	Measures should be taken to prevent wetting of litter material in poultry house. If wet litter is found lime powder should be sprinkled and mixed with litter material which absorbs the moisture as well as acts as disinfectant.
Poultry	General	During brooding of young chicks in brooder, artificial heat should be given by using incandescert bulb at the rate of 2 watt / chick.Silpaulins / tarpaulins should be placed on either sideof poultry house to present entry of rain water inside the shed.
Crops:	General	Farmers should set up drainage facilities in the fields to avoid crop damage as→ moderate rains are expected And to collect rainwater and raise the groundwater level to avoid wastage.
		Rainwater by creating rainwater harvesting structures Let's harvest→
Coconut	Vegetative stage	Water stagnation due to continuous rain in the coconut fields favours the incidence of basal stem rot in coconut palms. Hence provide proper drainage and ensure supply of required nutrient of the palms to get good yield.

Namakkal

Weather Advisory Bulletin for livestock, poultry and agriculture

Livestock, Poultry & Crop	Stage	Weather advisory
Poultry	General	In the recent days, there has been a rainy day followed by shine days in a week, this prevailing temperature and relative humidity is found to be an ideal condition for fly breeding. This has led to a high fly population in poultry farms. A simple technique is commonly practiced to monitor fly population is spot card, which helps to take decision on fly control measures at an appropriate time. A white paper of size 5 x 3 inch mounted on a cardboard with pin and keep 5 – 10 spot cards / shed for 24 hour. After 24 hour, cards are collected and fly specks (spots) (faecal and vomit drops) can be counted to arrive approximate number of flies. If the fly spots are above 100, necessary control measures have to be taken.To control fly menace, the farm premises should be maintained hygienically through replacement of faulty nipples, proper disposal of dead birds and broken eggs.If fly intensity is high the birds should be fed with Insect Growth Regulators mixed feed.
Agro advisory from Krishi Vigyan Kendra, Namakkal :		
Paddy	Transplanting stage	Paddy cultivating farmers are requested to give foliar spraying with Rice Reap @ 3 kg / acre at booting stage and 10 days after 1 st spray.
Tapioca	Vegetative stage	<u>Spiraling whitefly in Tapioca</u> <u>Symptoms</u> The infested leaves will become yellow. Development of Sooty mould fungus in lower leaves. <u>Management measures</u> Removal of unwanted weeds and infested leaves.Setting up of yellow sticky trap 10 – 15 numbers / acre for monitoring. If the damage is beyond the economic threshold level, foliar spraying of Neem oil 3 % and foliar application of Imidacloprid @ 1 ml / litre or thiamethoxam @ 1 gram / litre of water /acre may be undertaken.
Cotton	Vegetative stage	<u>Leafhopper management measures in Cotton</u> <u>Symptoms</u> Downward curling and reddening of leaves. Under severe infestation leaves will turn brick red colour. Growth retardation and death of plants.

		<p><u>Control measures</u></p> <p>If the incidence is more than Economic Threshold level, foliar spraying of neem oil 3 % should be done once in two weeks.</p> <p>Spray Imidacloprid @140 ml /acre or Thiamethoxam @ 40 gram /acre.</p>
Turmeric	Vegetative stage	Turmeric growers are requested to apply urea @ 108.5 kg and potash @ 360.7 kg in five equal splits at 30, 60, 90, 120 and 150 days after planting as basal and top dressing. Also apply 150 kg super phosphate as basal dose / acre.

Dharmapuri

Weather Advisory Bulletin for livestock, poultry and agriculture

SMS: Light Rainfall, Input arrangements may be made for the ensuing northeast monsoon sowing and select drought tolerant and pest and disease resistant varieties.	
Crop	Advisory
Mango	Prevailing weather Mango hoppers incidence Nymphs and adults suck the sap of inflorescence, Withering. Shedding of flower buds and flowers, Presence of honey dew segregation on lower leaves and development of sooty mould. Clicking sound – movement of jassids amidst leaves. Hoppers provide shelter in the cracks and crevices of the barks on the tree Management of the incidence Avoid close planting, as the incidence very severe in overcrowded orchards. Orchards must be kept clean by ploughing and removal of weeds. Spray Imidacloprid 17.8 SL 2.0 ml/10 litter or Dimethoate 30EC 1.5 ml/l.
Tomato	Tomato- Early blight incidence Spray of hexaconazole 5% SC @ 1ml/l or propiconazole 25% EC @ 1 ml/l at 30 and 50 days after planting.
Turmeric	Turmeric - Rhizome rot n infected plants, basal portion of the shoots appear watery and soft. The root system is very much reduced The leaves exhibit gradual drying along the margin Infected rhizomes soft, rotted, colour changes into different shades of brown for control measures Providing good drainage facilities. Soil drenching with copper oxy chloride (0.25%) in and around affected plants. Soil application of Pseudomonas fluorescens talc formulation (2.5 kg/ha).
Groundnut	Groundnut - Stem rot - Pustules appear first on the lower surface and in highly susceptible cultivars the original pustules may be surrounded by colonies of secondary pustules. Pustules may also appear on the upper surface of the leaflet. They may be formed on all aerial plant parts apart from flower and pegs. Severely infected leaves turn necrotic and desiccate but are attached to the plant .control measures Soil drenching with copper Carbendazim 2 gram/ lit or Apply the trichoderma viride @ 2.5kg/ha mixed with 50 Kgs of well decomposed farmyard manure (FYM)
Sugarcane	Sugarcane White Grub symptoms Yellowing and wilting of leaves. Drying of entire crown. Affected canes come off easily when pulled. Cause extensive damage to roots and base of shoot. Affected canes shows lodging in the field. Damages can seen more in ratoon crop when compare to plant crop for control measures Apply Beauveria brongniortii @ 2.5 kg/ha (1*10 ⁹ CFU/g) entopathogenic fungal formulation along with FYM at the time of planting in endemic regions.
Tuberose	Tuberose nematode incidence Stunted patches of plants with unthrifty growth, Leaves tura pale yellow, Reduction of no. of flowers, Moderate to severe galling in the roots, Control measures :Apply carbofuran 3 G @ 2g/plant (1.0 kg/ha.)

Cattle	Due to past rainfall event cattle shed and cow penning area's probably in moist condition. So kindly keep the cattle shed in dry condition and use disinfectant like lime. Mastitis in high yielding cows: Mastitis in a very common problem in high yielding cows caused mainly by bacterias in unhygienic farm conditions. Ethno veterinary medicine for Mastitis: 1. Aloe vera -250g. 2. Turmeric- 50g. (rhizome (or) powder. 3. Calcium hydroxide. (Lime-15g). Preparation: 1. Blend ingredients to form a reddish paste. Application: 1. Make a handful of paste by adding 150-200ml of water. 2. Wash and clean the udder and apply the mixture throughout. 3. Repeat the application 10 times a day for 5 days. 4. Feed 2 lemons twice daily for 3 days.
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Krishnagiri

Weather Advisory Bulletin for livestock, poultry and agriculture

Livestock, Poultry & Crop	Stage	Weather advisory
Poultry	General	In the recent days, there has been a rainy day followed by shine days in a week, this prevailing temperature and relative humidity is found to be an ideal condition for fly breeding. This has led to a high fly population in poultry farms. A simple technique is commonly practiced to monitor fly population is spot card, which helps to take decision on fly control measures at an appropriate time. A white paper of size 5 x 3 inch mounted on a cardboard with pin and keep 5 – 10 spot cards / shed for 24 hour. After 24 hour, cards are collected and fly specks (spots) (faecal and vomit drops) can be counted to arrive approximate number of flies. If the fly spots are above 100, necessary control measures have to be taken. To control fly menace, the farm premises should be maintained hygienically through replacement of faulty nipples, proper disposal of dead birds and broken eggs. If fly intensity is high the birds should be fed with Insect Growth Regulators mixed feed.
Agro advisory from Krishi Vigyan Kendra		
Paddy	Transplanting stage	Paddy cultivating farmers are requested to give foliar spraying with Rice Reap @ 3 kg / acre at booting stage and 10 days after 1 st spray.
Tapioca	Vegetative stage	<u>Spiraling whitefly in Tapioca</u> <u>Symptoms</u> The infested leaves will become yellow. Development of Sooty mould fungus in lower leaves. <u>Management measures</u> Removal of unwanted weeds and infested leaves. Setting up of yellow sticky trap 10 – 15 numbers / acre for monitoring. If the damage is beyond the economic threshold level, foliar spraying of Neem oil 3 % and foliar application of Imidacloprid @ 1 ml / litre or thiamethoxam @ 1 gram / litre of water /acre may be undertaken.
Cotton	Vegetative stage	<u>Leafhopper management measures in Cotton</u> <u>Symptoms</u> Downward curling and reddening of leaves. Under severe infestation leaves will turn brick red colour. Growth retardation and death of plants. <u>Control measures</u> If the incidence is more than Economic Threshold level, foliar spraying of neem oil 3 % should be done once in two weeks. Spray Imidacloprid @140 ml /acre or Thiamethoxam @ 40 gram /acre.
Turmeric	Vegetative stage	Turmeric growers are requested to apply urea @ 108.5 kg and potash @ 360.7 kg in five equal splits at 30, 60, 90, 120 and 150 days after planting as basal and top dressing. Also apply 150 kg super phosphate as basal dose / acre.

Karaikal

Agro Advisory

Crop/livestock	Stage/Particulars	Agro Advisory
Rice	Weed management	To manage weeds in direct sown rice, apply bispyribac sodium @ 200 gram/ha at 10-12 days after sowing or cyhalofop-butyl @ 350 gram or Pyrazosulfuron ethyl @ 200 gram at 12-15 days after sowing or 2,4-D @ 1.25 kilogram at 30-50 days after sowing.
Cattle	Hemorrhagic septicaemia	Hemorrhagic septicaemia is a bacterial disease in cattle. It generally occurs during rainy season. Hence, to prevent this disease in farm animals vaccinate cattle before rainy season for Hemorrhagic septicaemia (October).
	Theileriosis	Theileriosis is an important disease in exotic and cross bred dairy cattle. This disease is transmitted by the bite of the ticks of the genus Hyalomma. The growth and development is high in ticks during September and October. Hence, the breeding places of ticks like cattle manure, filth, dark corners, dampness and stagnant water etc. and eggs of ticks deposited in cracks & crevices in the walls, floors & wood work of the animal houses should be cleaned properly to prevent the occurrence of the disease in cattle.

SMS: Light rain is expected for next few days.

