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To  
The Editor,  
Sir,

Date: 30.09.2025

I request that the following message may kindly be published in your esteemed daily:

### **District level seasonal rainfall forecast for Northeast monsoon, 2025**

Northeast monsoon season (October to December) – 2025 rainfall forecast for different districts of Tamil Nadu is developed based on the July -August Southern Oscillation Index and Sea Surface Temperature values of Pacific and Indian Oceans by using Australian Rainman International V.4.3. Software at Agro Climate Research Centre, Directorate of Crop Management, Tamil Nadu Agricultural University, Coimbatore and is presented at 60% probability level.

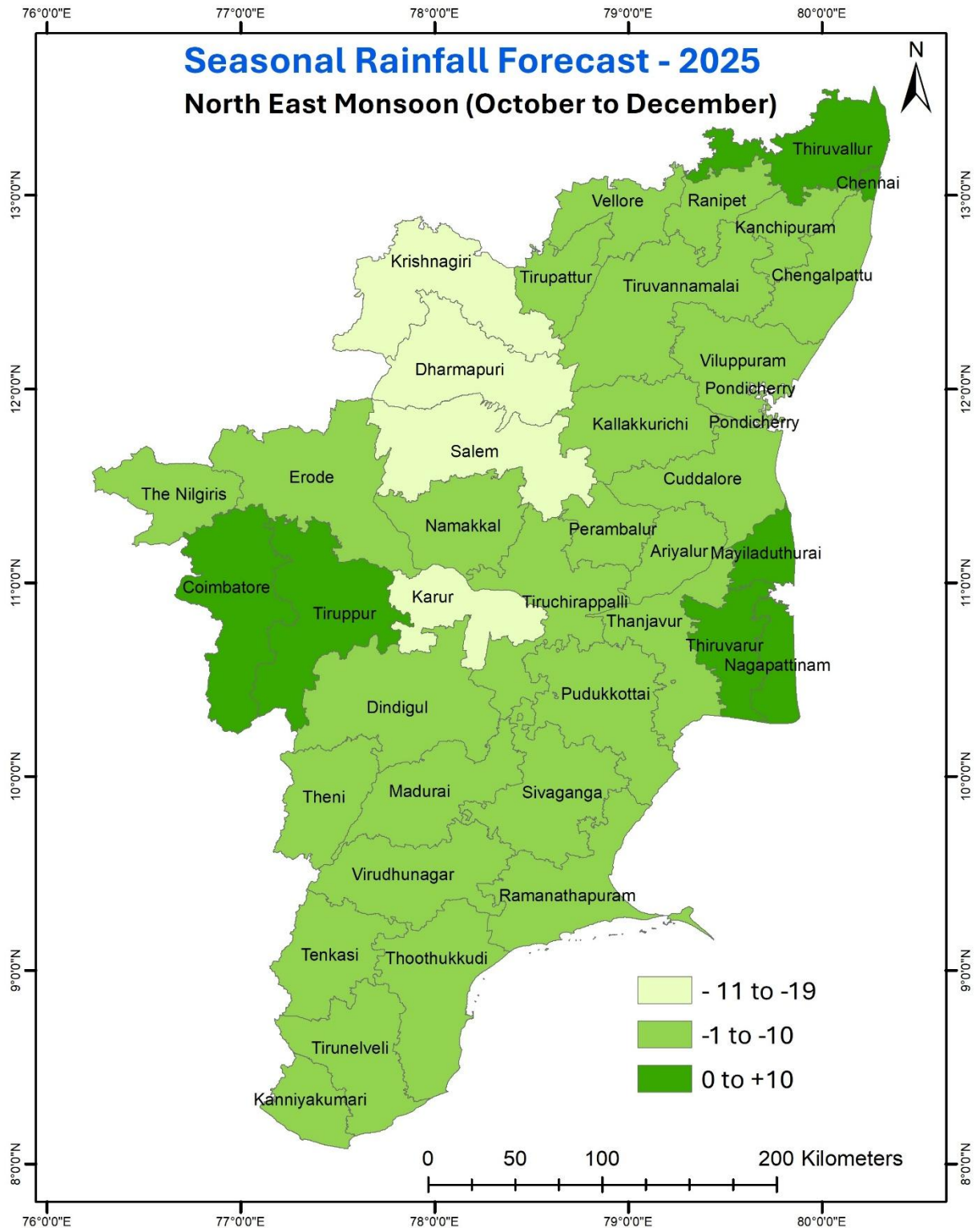
**Near Normal Rainfall (-10 to -19 per cent deviation from long term rainfall)** is expected in Salem, Krishnagiri, Dharmapuri and Karur districts of Tamil Nadu. **Normal Rainfall ( $\pm 10$  per cent deviation from long term rainfall)** is expected in the remaining districts of Tamil Nadu.

**Seasonal Rainfall Forecast - 2025**  
**North East Monsoon (October to December)**

Legend:

- 11 to -19
- 1 to -10
- 0 to +10

Scale: 0 50 100 200 Kilometers



### District level seasonal rainfall forecast for North East Monsoon 2025

S. No	Districts	Normal Rainfall (mm)	Predicted Rainfall (mm)	Per cent deviation
1	Ariyalur	502	480	-4
2	Chengalpattu	708	650	-8
3	Chennai	810	890	10
4	Coimbatore	338	370	9
5	Cuddalore	702	650	-7
6	Dharmapuri	314	280	-11
7	Dindigul	460	415	-10
8	Erode	307	310	1
9	Kallakurichi	456	410	-10
10	Kancheepuram	592	560	-5
11	Kanyakumari	533	500	-6
12	Karur	313	265	-15
13	Krishnagiri	278	240	-14
14	Madurai	370	340	-8
15	Mayiladuthurai	888	900	1
16	Nagapattinam	935	936	0
17	Namakkal	270	260	-4
18	Perambalur	432	425	-2
19	Pudukkottai	386	350	-9
20	Ramanathapuram	531	500	-6
21	Ranipet	406	380	-6
22	Salem	331	290	-12
23	Sivaganga	422	400	-5
24	Thanjavur	579	530	-8
25	Theni	364	330	-9
26	Tenkasi	466	430	-8
27	Tiruvallur	624	685	10
28	Tiruvarur	725	750	3
29	Tuticorin	442	420	-5
30	Tiruchirapalli	379	340	-10
31	Tirunelveli	515	480	-7
32	Tirupathur	266	240	-10
33	Tiruppur	306	310	1
34	Thiruvannamalai	450	410	-9
35	The Nilgiris	501	480	-4
36	Vellore	375	350	-7
37	Villupuram	531	480	-10
38	Virudhunagar	399	365	-9

# Management strategies to mitigate deficit rainfall conditions

## Seasonal Rainfall Outlook – North East Monsoon 2025

According to the TNAU Seasonal Rainfall Forecast (Oct–Dec 2025):

- **Deficit rainfall** is expected in: *Krishnagiri, Dharmapuri, Salem, Karur* (–11% to –19%)
- **Normal rainfall (positive side)** in: *Coimbatore, Tiruppur, Thiruvavarur, Mayiladuthurai, Nagapattinam, Thiruvallur* (0% to +10%)
- **Normal rainfall (negative side)** in all other districts (0% to –10%)

In light of this forecast, the following **adaptive management strategies** are recommended to mitigate water stress and ensure crop resilience.

## Recommendations for Managing Water Stress (Deficit Rainfall)

### 1. Soil Moisture Conservation

- Inter-cultivation techniques: random tie ridging, crisscross ploughing, conservation furrows (slopes), broad bed furrows (black soils)
- Crop residue mulching and dust mulching during dry spells.
- Use antitranspirants at critical moisture stress stages
- In cotton, nip terminal stem beyond 15th/20th node (at 70–90 DAS) to reduce transpiration

### 2. Seed Hardening & Treatment

Crop	Treatment Solution	Duration
Sorghum, Ragi	2% Potassium Di-hydrogen Phosphate	10 hrs + shade dry
Pearl Millet	2% KCl	6 hrs + shade dry
Groundnut	0.2% Calcium chloride	6 hrs + shade dry
Green Gram	0.1% MnSO <sub>4</sub> or 0.1% ZnSO <sub>4</sub>	At sowing

### 3. Sowing method & Irrigation

- In rice: adopt *Alternate Wetting and Drying (AWD)* and *Direct Seeded Rice (DSR)* wherever feasible
- Ensure lifesaving irrigation at critical crop stages using farm ponds or groundwater

### 4. Foliar Nutrition & Crop Boosters

Crop	Product	Dosage & Timing
Pulses	Pulse Wonder	2 kg/acre at flowering
Groundnut	Groundnut Rich	2 kg/acre/spray at flowering & pod stage

Cotton	Cotton Plus	5 kg/acre at flowering & boll stage
Maize	Maize Maxim	3 kg/acre/spray at tassel & grain stage
Sugarcane	Sugarcane Booster	1, 1.5, 2 kg/acre at 45, 60, 75 DAP

- **Additional sprays:**

- 1% PPFM at 10-day intervals
- 0.5% KCl at vegetative stage (cereals, pulses, oilseeds)
- 3% Kaolin or 1% KCl for rice under moisture stress
- 1% KCl + CCC @ 500 ppm for Kuruvai rice under drought

### **5. Crop Shine Application (TNAU)**

Crop	Seed Treatment	Foliar Spray	Timing
Rice	5 ml/litre	1 litre/acre	Panicle initiation & anthesis
Ragi, Pulses, Tomato	2.5 ml/litre	0.5 litre/acre	Flowering stage
Cassava	2.5 ml/litre	0.5 litre/acre	30 & 60 days after planting

### **6. Infrastructure & Community Measures for inadequate rainfall conditions**

- Renovate percolation ponds and water storage structures
- Erect community borewells in dry riverbeds
- Organize cattle camps with fodder and water supply
- Promote designer seeds for better emergence

**Public Relations Officer**