

	<p>இந்தியஅரசு இந்திய வானிலை ஆய்வு வால்லம் மண்டலம் வானிலை ஆய்வு வல்லமயம் 6, கைலாசிசாலை, சசன் லன்600006 - சதாலைபேசி: 044- 28271951.</p>		<p>GOVERNMENT OF INDIA INDIA METEOROLOGICAL DEPARTMENT Regional Meteorological Centre No. 6, College Road, Chennai-600006 Phone: 044- 28271951</p>
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**Impact-based weather forecasts and Agromet advisories for agriculture for
the following districts of Tamil Nadu and Puducherry
(Based on the forecast issued on 11-10-2024)**

**Ariyalur, Chengalpattu, Chennai, Coimbatore, Cuddalore, Dharmapuri, Dindugal,
Erode, Kallakuruchi, kanchipuram, Kanyakumari, Karur, Krishnagiri, Madurai,
Mayiladuthurai, Nagapattinam, Namakkal, Niligiris, Pudukottai, Ranipet,
Ramanathapuram, Salem, Sivaganga, Thanjavur, Theni, Tenkasi, Thirupattur,
Tiruvallur, Tirunelveli, Tiruppur, Tiruvannamalai, Tiruvarur, Thoothukudi,
Vellore, Villupuram, Virudhunagar, and Karaikal, Puducherry.**

Synoptic Meteorological Features:

Southwest Monsoon has been active over Tamilnadu.

Yesterday's Well Marked Low pressure area over eastcentral Arabian sea off Goa & north Karnataka coasts moved northwestwards and lay over eastcentral Arabian sea off Maharashtra coast at 0830 IST of today, the 11th October 2024. The associated cyclonic circulation extending upto 5.8 km above mean sea level. It is likely to move west-northwestwards and intensify into a Depression over central Arabian Sea by morning of 13th October.

A trough runs from centre of the Well Marked Low pressure area over eastcentral Arabian sea off Maharashtra coast to southeast Arabian sea off south Kerala coast extending upto middle tropospheric levels.








Yesterday's upper air cyclonic circulation over southwest Bay of Bengal off Tamil Nadu coast lay over south Tamil Nadu coast and extends upto 1.5 km above mean sea level.

Another upper air cyclonic circulation lay over central parts of south Bay of Bengal and extends upto 3.1 km above mean sea level.

District Level Forecast and warning issued by RMC Chennai

Dates for which weather warnings are issued	Name of the districts for which warnings are issued	Weather Warnings
11-10-2024	Kanyakumari, Tirunelveli and Thoothukudi districts	Heavy to very heavy rain is likely to occur at isolated places over the district.
	Ghat areas of Coimbatore and Tiruppur districts; Nilgiris, Erode, Salem, Namakkal, Karur, Dindigul, Theni, Virudhunagar, Tenkasi, Madurai, Sivaganga, Ramanathapuram and Pudukkottai districts	Heavy rain is likely to occur at isolated places over the district.
12-10-2024	Ghat areas of Coimbatore and Tiruppur districts; Nilgiris, Erode, Namakkal, Salem, Karur and Dindigul districts	Heavy rain is likely to occur at isolated places over the district.
13-10-2024	Ghat areas of Coimbatore and Tiruppur districts; Nilgiris, Erode, Dindigul and Karur districts	Heavy rain is likely to occur at isolated places over the district.
14-10-2024	Villupuram, Cuddalore, Mayiladuthurai and Nagapattinam districts, Puducherry and Karaikal area	Heavy to very heavy rain is likely to occur at isolated places over the district.
	Tiruvallur, Ranipet, Kancheepuram, Chengalpattu, Chennai, Tiruvannamalai, Kallakurichi, Ariyalur, Tiruvarur, Thanjavur and Pudukkottai districts	Heavy rain is likely to occur at isolated places over the district.

15-10-2024	Tiruvallur, Ranipet, Vellore, Tirupattur, Tiruvannamalai, Villupuram, Chengalpattu, Kancheepuram, Chennai & Puducherry districts	Heavy to very heavy rain is likely to occur at isolated places over the district.
	Krishnagiri, Dharmapuri, Kallakurichi, Cuddalore and Mayiladuthurai districts	Heavy rain is likely to occur at isolated places over.

	WARNING (TAKE ACTION)
	ALERT (BE PREPARED)
	WATCH (BE UPDATED)
	NO WARNING (NO ACTION)
	Extremely Heavy Rainfall > 204.4 mm.
	Very Heavy Rainfall 115.6 to 204.4 mm.
	Heavy Rainfall 64.5 to 115.5 mm.

Impact based advisory for Agriculture

Name of the Crop	Growth Stages	Likely impact on the crop due to the above-mentioned warning	Advisory
Paddy	Vegetative Growth	Water logging and crop lodging	<ul style="list-style-type: none"> • Maintain proper drainage in the field.
			<ul style="list-style-type: none"> • Avoid fertilizer, Fungicide and pesticide spray.
Sugarcane	Grand Growth or Cane Elongation Phase	Water logging and crop lodging	<ul style="list-style-type: none"> • Since heavy rainfall with squally wind is expected, therefore sugarcane crop is recommended to tie-up the plants for support against lodging of the crops. • Provide adequate drainage facilities for the removal of excess water from the field.
Coconut	---	Water stagnation due to Heavy rain, sudden fall of old fronds.	<ul style="list-style-type: none"> • Expected rainfall may be stored in root zone of by deepening the inward trench along the basin. • Provide adequate drainage facilities for the removal of excess water from the field. • Raise the edges of the field so that excess rainwater from outside does not enter the field.

Livestock	---	<p>Prolonged exposure to wet conditions can lead to various health problems in cattle, such as foot rot, mastitis, and respiratory illnesses like pneumonia. Wet, muddy conditions can also increase the risk of parasitic infections.</p>	<ul style="list-style-type: none"> • Exposure of calves and kids to rain should be avoided to prevent from pneumonia attack in view of expected high rain, thunderstorm and lightening. • Do not allow the animals to graze outside. • Don't tie the animals to the electric poles and under trees. • In consultation with the local veterinarian,
			vaccinate your animals against seasonal diseases.
Banana	Flowering and Fruiting stage	<p>Waterlogging/ Soil Erosion/ Nutrient leaching/ lodging/ Pest & Disease Outbreaks/ Fruit Quality</p>	<ul style="list-style-type: none"> • Provide physical support to banana plants by staking them, which can prevent lodging due to strong winds and heavy rain. • Ensure fields have effective drainage systems to prevent waterlogging. Constructing trenches or raised beds can help channel excess water away from the plants.
Spices	---	<p>Waterlogging/ Root rot/ Outbreaks of fungal disease</p>	<ul style="list-style-type: none"> • Ensure that the fields have good drainage systems to prevent waterlogging. Constructing raised beds and channels can help divert excess water away from the crop. • Ensure the proper drainage facilities in the newly planted crops.

Cotton	---	Excessive rainfall can lead to waterlogged fields, which can suffocate the roots, leading to root rot and other diseases. This can severely stunt the growth of the plants or even kill them.	<ul style="list-style-type: none"> • Provide proper drainage facility. • Avoid fertilizer and pesticide application.
Vegetables	---	Waterlogging, Damage to bower/pandals due to heavy rain/wind.	<ul style="list-style-type: none"> • Check and repair/replace the rusted iron strings and poles of pandals. • Avoid intercultural activities like fertilizer and pesticide application.
			<ul style="list-style-type: none"> • Provide proper drainage facility.
Horticultural Crops	---	If the water is too deep, it can submerge small vegetable plants, leading to poor establishment and potentially causing plant death.	<ul style="list-style-type: none"> • Provide drainage facility. • Postpone the intercultural / plant protection activities like fertilizer and pesticide application, till the rain stops.

Issued by: Agromet Advisory Services Unit (AASU), Regional Meteorological Centre, Chennai, in consultation with the concerned Agromet Field Units (AMFUs)