

	<p>இந்திய அரசு இந்திய வானிலை ஆய்வுத் துறை மண்டல வானிலை ஆய்வுமையம் 6, கல்லூரிசாலை, சென்னை 600006 - தொலைபேசி: 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 09-10-2024)**

Krishnagiri, Dharmapuri, Salem, Namakkal, Tiruchirappalli, Karur, Vellore, Tirupattur, Tiruvannamalai, Kallakurichi, Dindigul, Madurai, Theni, Ariyalur, Perambalur, Virudhunagar, Sivagangai, Kanyakumari, Ramanathapuram, Tirunelveli, Thoothukudi, Tenkasi, Theni, Pudukottai, Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Ghats areas of Coimbatore, Tiruppur, Pudukottai, Cuddalore, Kallakurichi, Villupuram, Chengalpattu, Kanchipuram, Nilgiri, Ranipet, Thiruvallur, Puducherry.

Synoptic Meteorological Features:

Under the influence of yesterday's upper air cyclonic circulation over Lakshadweep and adjoining southeast Arabian Sea, a low-pressure area has formed over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea. The associated cyclonic circulation extends upto 5.8 km above mean sea level. It is likely to move northwestwards and intensify into a Depression over central Arabian Sea during subsequent 3-4 days.

A trough runs from Comorin area to north Konkan coast across the cyclonic circulation associated with Low Pressure area over Lakshadweep and adjoining Southeast & eastcentral Arabian Sea and extends upto 1.5 km above mean sea level.

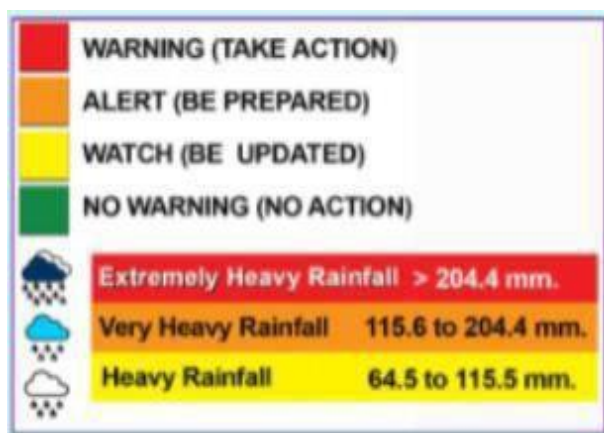
A cyclonic circulation lies over Sri Lanka & neighbourhood and extends upto 5.8 Km above mean sea level.

Yesterday's trough from the cyclonic circulation over Lakshadweep & adjoining southeast Arabian Sea to North coastal Tamil Nadu across Kerala extending upto 1.5 km above mean sea level has become less marked.

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
09.10.2024	Krishnagiri, Dharmapuri, Salem, Namakkal, Tiruchirappalli, Karur, Vellore, Tirupattur, Tiruvannamalai, Kallakurichi, Dindigul, Madurai and Theni districts.	Heavy rain with thunderstorm and lightning is likely to occur at isolated places over the district.
10.10.2024	Salem, Krishnagiri , Dharmapuri, Tirupattur, Namakkal, Ariyalur, Perambalur, Karur, Tiruchirappalli and Dindigul districts	Heavy rain with thunderstorm and lightning is likely to occur at isolated places over the district.
11.10.2024	Krishnagiri, Tirupattur, Dharmapuri, Salem, Namakkal, Karur, Tiruchirappalli, Perambalur, Ariyalur, Dindigul, Madurai, Virudhunagar and Sivagangai districts	Heavy rain with thunderstorm and lightning is likely to occur at isolated places over the district.
12.10.2024	Kanyakumari, Ramanathapuram, Tirunelveli, Thoothukudi and Tenkasi districts	Heavy to very heavy rain with thunderstorm and lightning is likely to occur at isolated places over the districts.
12.10.2024	Theni, Dindigul, Madurai, Sivagangai, Virudhunagar, Pudukottai, Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai districts and Karaikal area	Heavy rain with thunderstorm and lightning is likely to occur at isolated places over the district.
13.10.2024	Thanjavur, Tiruvarur, Nagapattinam, Mayiladuthurai, Ariyalur and Perambalur districts and Karaikal area	Heavy to very heavy rain with thunderstorm and lightning is likely to occur at isolated places over the districts.

13.10.2024	Ghats areas of Coimbatore and Tiruppur districts, Pudukottai, Ramanathapuram, Sivagangai, Tiruchirappalli, Cuddalore, Kallakurichi, Villupuram, Chengalpattu, Kanchipuram, Theni, Dindigul, and Nilgiri districts and Puducherry area	Heavy rain with thunderstorm and lightning is likely to occur at isolated places over the district.
14.10.2024	Thiruvannamalai and Kallakurichi districts	Heavy to very heavy rain is likely to occur at isolated places over the districts.
14.10.2024	Tirupattur, Vellore, Ranipet, Kanchipuram, Thiruvallur and Villupuram districts	Heavy rain is likely to occur at isolated places over the district.
15.10.2024	Perambalur, Ariyalur, Cuddalore, Mayiladuthurai, Kallakurichi, Villupuram districts and Puducherry area	Heavy rain is likely to occur at isolated places over the district.



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	• 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	---	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.	<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	Waterlogging/ Soil Erosion/ Nutrient leaching/ lodging/ Pest & Disease Outbreaks/ Fruit Quality	<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	---	Waterlogging/ Root rot/ Outbreaks of fungal disease	<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. • 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)