

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First 15-Day Period (1st-15th) of March, 2025

Definitions used in the forecast and bulletin:

Term	Meaning	
Dekad	10 day rainfall measuring period	
Rain Day	A day with 1.0 mm or more of rainfall amount	
Wet Day	A day with 10.0 mm or more rainfall amount	
Extremely Wet Day	A day with 25.0 mm or more of rainfall amount	
Normal Rainfall	Between 75% and 125% of the average	
Below Normal Rainfall	Rainfall below 75% of the average	
Above Normal Rainfall	Rainfall in excess of 125% of the average	
Much Below Normal Rainfall	Rainfall below 50% of the average	
Much Above Normal Rainfall	Rainfall above 150% of the average	
Scanty Rainfall	Less than 1 mm	
Moderate Rainfall	1-10 mm	
Heavy Rainfall	10-50 mm	
Very Heavy Rainfall	Greater than 50 mm	
Probability of 1-30 %	Low Chance	
Probability of 30-70 %	Moderate Chance	
Probability greater than 70 %	High Chance	
Term	Amount of Rain	Type of day
Scanty Rainfall	Less than 1 mm	Relatively dry day
Moderate Rainfall	1-10 mm	Relatively wet day
Heavy Rainfall	10-50 mm	Wet day
Very Heavy Rainfall	Greater than 50 mm	Excessively wet day

Weather Assessment for the period 16th to 28th February, 2025.

More relatively dry days than relatively wet days across much of the country during the second half of February has resulted in much below normal rainfall especially over western areas of Tobago and western and central Trinidad. Tobago has experienced a 15-day rainfall amount at Crown Point of 3.9 mm. Meanwhile Piarco, Trinidad has experienced a 15-day rainfall amount of 11.2 mm. The rainfall totals maps for the period 16th to 28th of February for Trinidad and Tobago are located below as figure 1 and figure 2.

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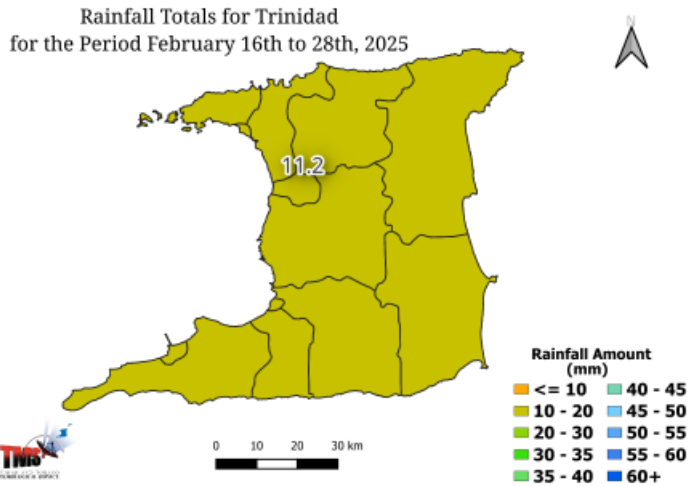


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 16th to 28th of February.

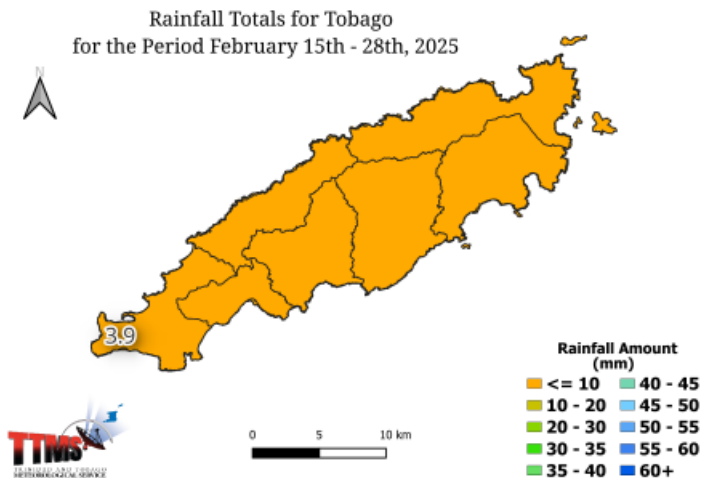


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 16th to 28th of February.

Temperatures:










Warm conditions dominated the second half of February. From the 16th to 28th of February, Piarco observed a maximum daytime temperature of 32.3 °C (26th) with no hot days (maximum temperatures over 34.0 °C at Piarco). The minimum night-time temperatures ranged from 21.3 °C to 23.3 °C at Piarco. Tobago also experienced warm conditions on most days and nights but no hot days (maximum temperatures above 33.0 °C at Crown Point). The maximum daytime temperature

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was 31.2 °C (27th) and the minimum night-time temperatures ranged from 22.9 °C to 25.9 °C at Crown Point. Factoring the relative humidity however, these temperatures had a 'real feel' that was higher than the observed temperature.

Agro-meteorological Forecast:

Date	Weather		Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind	
1	 20% chance of rainfall	0-1 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 33°C-37°C	45-60%	 East-northeast 30-39 km/h Gust 50 km/h
2	 20% chance of rainfall	0-1 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 33°C-37°C	51-60%	 East-northeast 30-39 km/h Gust 50 km/h
3	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures	Feels like 33°C-38°C	58-65%	 East-northeast 30-39 km/h Gust













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				32°C/23°C			50 km/h
4	 30% chance of rainfall	0-1 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 33°C-38°C	52-65%	 East 30-39 km/h Gust 50 km/h
5	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly to mostly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 33°C-38°C	55-65%	 East 30-39 km/h Gust 50 km/h
6	 20% chance of rainfall	0-1 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 34°C-37°C	50-60%	 East 30-39 km/h Gust 50 km/h
7	 20% chance of rainfall	0-1 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 33°C-37°C	48-60%	 East-southeast 30-39 km/h Gust 50 km/h













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8	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly to mostly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 36°C-38°C	58-65%	 East-southeast 30-39 km/h Gust 50 km/h
9	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly to mostly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 36°C-38°C	58-65%	 East-southeast 30-39 km/h Gust 50 km/h
10	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly to mostly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 34°C-38°C	50-65%	 East-southeast 30-39 km/h Gust 50 km/h
11	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 34°C-38°C	50-65%	 East-northeast 30-39 km/h Gust 50 km/h

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12	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, breezy.		Feels like 34°C-38°C	50-65%	 East-northeast 30-39 km/h Gust 50 km/h
13	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 35°C-38°C	55-65%	 East-northeast 30-39 km/h Gust 50 km/h
14	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 35°C-38°C	55-65%	 East-northeast 30-39 km/h Gust 50 km/h
15	 40% chance of rainfall	1-2 mm of rainfall is possible	Partly cloudy, breezy.	 Warm Max/Min Temperatures 32°C/23°C	Feels like 35°C-38°C	55-65%	 East-northeast 30-39 km/h Gust 50 km/h

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Trinidad Rainfall Forecast for the 15-Day period of March (1st – 15th) 2025.

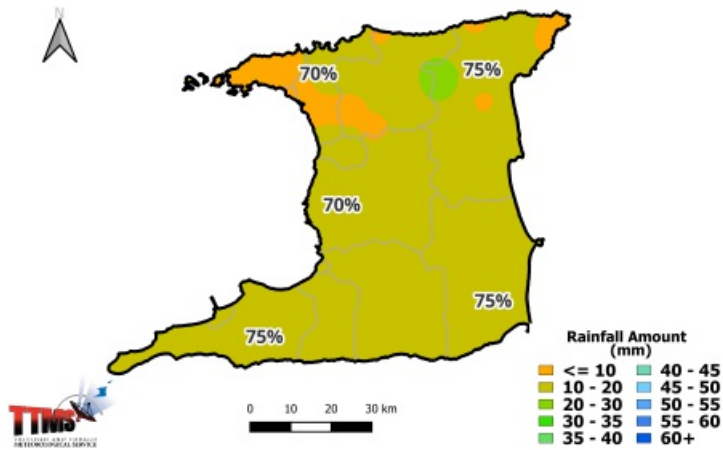


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1st – 15th) March 2025 and percentage probability of occurrence.

Eastern and North-Eastern areas: High chance (75%) of mean daily rainfall up to 1.0 mm.

South-Eastern areas: High chance (75%) of mean daily rainfall up to 0.9 mm.

Southern areas: High chance (75%) of mean daily rainfall up to 0.8 mm.

South-Western areas: High chance (75%) of mean daily rainfall up to 0.8 mm.

Central, West-Central, and inland areas: Moderate chance (70%) of mean daily rainfall up to 0.8 mm.

Northern, North-Western areas: Moderate chance (70%) of mean daily rainfall up to 0.7 mm.

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Tobago Rainfall Forecast for the 15-Day period of March (1st – 15th) 2025.

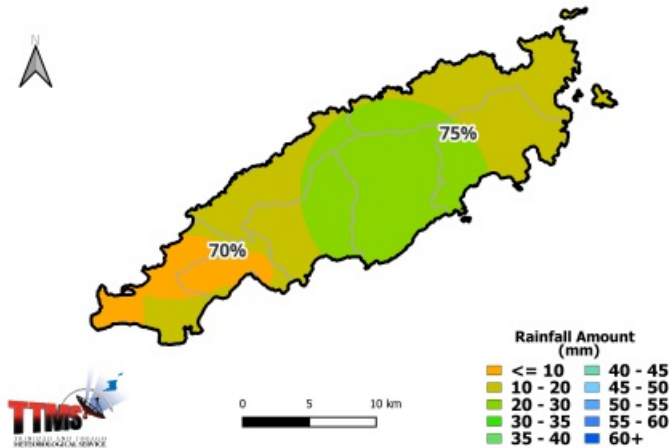


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (1st – 15th) March 2025 and percentage probability of occurrence.

North-Eastern areas: High chance (75%) of mean daily rainfall up to 1.4 mm.

South-Western areas: Moderate chance (70%) of mean daily rainfall up to 0.8 mm.

Trinidad and Tobago:

More relatively dry days than relatively wet days are expected to bring near-to or below normal rainfall amounts with daily rainfall totals forecast up to 2 mm from 1st to 15th March.

In Trinidad, the 15-day period forecast rainfall totals are expected to range between 9 mm and 25 mm across different farmlands favouring hilly areas of eastern, northeastern and southeastern Trinidad: North Oropouche, Valencia, Plum Martin and Nariva. In Tobago, 15-day forecast rainfall is expected to range between 10 mm and 25 mm across most farmlands, favouring northern and eastern hillsides: Main Ridge Reserve, Charlotteville, Belle Garden and Hillsborough.

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Temperatures & Winds:

Temperatures for this time of year are expected to be near-to or above normal during most days. From 1st to 15th March there is a moderate (60%) chance daytime and nighttime temperatures will be above normal. Forecast daily maximum temperatures will range from 30 °C to 32 °C. Though feeling comfortable on most breezy/windy days, when factoring humidity on the warmest days these temperatures are expected to feel as hot as 33 °C to 38 °C. The minimum temperatures of 23.0 °C are expected during most nights/early mornings though warmer on farmlands near the coast.

Breezy to windy conditions are expected to continue with a moderate to high (75%) chance of fresh northeasterly or easterly winds up to 39 km/h with strong gusts possible. Breezy to windy conditions combined with near-normal temperatures are expected to bring average evapotranspiration rates in crops between 4.0 mm to 7.0 mm per day.

Moisture levels:

Low to moderate moisture levels are expected across Trinidad and Tobago over the fifteen-day period, with average daytime relative humidity values mainly ranging from the low-50s to low-70s, in terms of percentage.

Highlighted Possible Impacts on Agriculture:

Mainly scanty rainfall and partly cloudy, hazy and breezy conditions. The browning of vegetation and lowering of soil moisture is expected to continue across most farmlands, especially over western and central areas of Trinidad and western Tobago. Increasing evaporative stress is expected to favour western, southwestern and central areas of Trinidad, thus scheduling of irrigation days on fields to maintain optimal soil moisture will likely be necessary.

During breezy conditions there is a low to moderate (30-40%) chance of heat stress for farm workers, young livestock, newly germinated and transplanted seedlings onto fields. However, heat stress risk is expected to gradually increase during March. There is a moderate to high probability (60-80%) that strong gusts may damage young plants and flowering mature plants in exposed hilly areas. There is a low (30%) chance for fungal spread, insect pests and warm/moist weather diseases to develop in crop beds.

Sun and Moon Positions in the Sky March (1st – 15th) 2025.

The sun is presently 7.3 degrees South of the Equator and the day-length or number of sunlight hours in Trinidad and Tobago on March 1st will be 11 hours, 55 minutes increasing to 12 hours, 3 minutes on March 15th.

Moon Phases: First Quarter, 6th; Full Moon, 14th. According to the tradition of moon's phases: March 3rd, 4th, 7th and

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8th are good days for planting above-ground crops; 14th – 16th are good days for planting below-ground; the remaining days are poor planting days and useful for removing weeds, clearing land and ploughing fields.

Summary

Continued browning of vegetation and lowering of soil moisture is expected during partly cloudy, hazy and breezy conditions across most farmlands.

More relatively dry days are expected to bring near-to or below-normal rainfall amounts with daily rainfall totals forecast up to 2 mm from 1st to 15th March. Although temperatures are expected to be relatively higher, breezy to windy conditions are expected to maintain a moderate risk of heat stress during the fifteen days.

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