

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First 15-Day Period (1st-15th) of February, 2024

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 Bulletin for Farmers and Livestock Producers of Trinidad and Tobago for the 15-day period 01st – 15th of February 2024

Date	Weather	Temperature	Heat Real	Day Moisture (Relative)	Wind
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Issue date: 2024-02-02

					Feel	(Humidity)	
01 st	 30% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 33-35°C	55-90%	 Moderate easterly 15 km/h Gust 30 km/h
02 nd	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 33-35°C	50-85%	 Moderate east-southeasterly 15 km/h Gust 30 km/h
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05 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with brief showers in some areas	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 33-35°C	55-90%	 Moderate easterly 15 km/h Gust 30 km/h
06 th	 30% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 33-35°C	55-90%	 Moderate east-southeasterly 15 km/h Gust 30 km/h
07 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 31.0/23.0	Feels like 32-35°C	55-90%	 Moderate to strong east-southeasterly 20 km/h Gust 35 km/h
08 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 31.0/23.0	Feels like 32-35°C	55-90%	 Moderate east-southeasterly 15 km/h Gust 30 km/h

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09 th	 30% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with brief showers in some areas	Warm  Max/Min Temperatures °C 32.0/22.0	Feels like 33-35°C	55-85%	 Moderate easterly 15 km/h Gust 30 km/h
10 th	 30% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with brief showers in some areas	Warm  Max/Min Temperatures °C 31.0/21.0	Feels like 32-35°C	60-85%	 Moderate east-northeasterly 15 km/h Gust 30 km/h
11 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/21.0	Feels like 33-35°C	55-90%	 Moderate easterly 15 km/h Gust 30 km/h
12 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/22.0	Feels like 33-35°C	60-90%	 Moderate easterly 15 km/h Gust 30 km/h

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13 th	 30% chance of showers	Less than 3.0 mm of rainfall is possible	Sunny with cloudy patches producing a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/22.0	Feels like 33-35°C	60-90%	 Moderate easterly 15 km/h Gust 30 km/h
14 th	 30% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/22.0	Feels like 33-35°C	55-85%	 Moderate easterly 15 km/h Gust 30 km/h
15 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Sunny with a brief shower in some areas	Warm  Max/Min Temperatures °C 32.0/22.0	Feels like 33-35°C	55-85%	 Moderate easterly 15 km/h Gust 30 km/h

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Trinidad Rainfall Forecast for the 15-Day period of February 01st – 15th 2024.

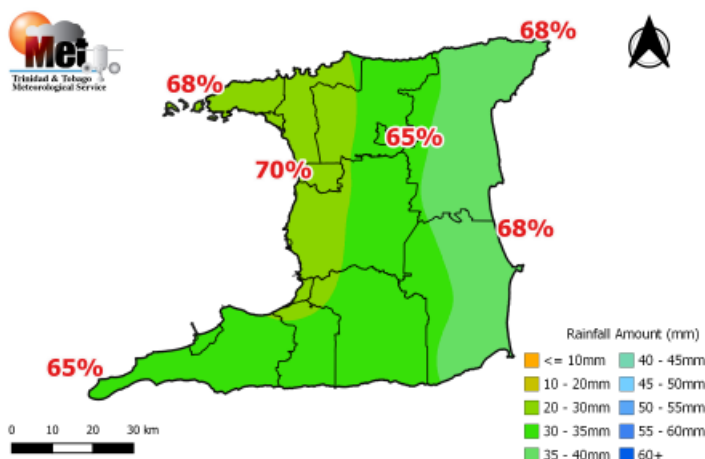


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period 01st – 15th February 2024 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 3.8 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 3.8 mm.

Southern areas

Moderate chance (65%) of mean daily rainfall up to 3.2 mm.

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 3.2 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 3.2 mm.

Northern, North-Western areas

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Moderate chance (68%) of mean daily rainfall up to 3.0 mm.

Tobago Rainfall Forecast for the 15-Day period of February 01st – 15th 2024.

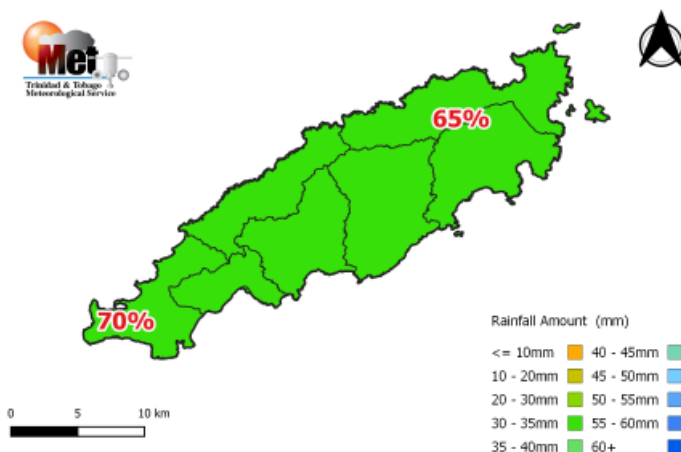


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period 01st – 15th February 2024 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 3.2 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 3.5 mm.

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Sun and Moon Positions in the Sky February 01st – 15th 2024.

The sun is presently at 16.8 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from February 01st 2024 will be 11 hours and 41minutes, increasing to 11 hours and 48 minutes by 15th February 2024.

The moon's phases are, third quarter on February 02nd 2024, new moon on February 09th, and first quarter on February 16th 2024.

Summary of Expected Weather:

Generally Low rainfall amounts are expected during the fifteen days.

Out of the 15 day period seven (7) of those days are expected to be less than 3.0 mm of rainfall (relatively wet), and eight (8) days with less than 1.0 mm of rainfall (relatively dry).

Trinidad and Tobago:

The daily rainfall totals are forecast to range between 1.0 mm to 3.5 mm across different farmlands over the islands. The fifteen-day rainfall totals ranging between 10.0 mm and 35.0 mm in Trinidad, and around 35.0 mm in Tobago.

Temperatures & Winds:

The maximum temperatures are expected to become warm, with daily maximum temperatures at or near 32.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 32.0°C to 35.0°C on most days. The minimum temperatures will range between 23.0°C to 21.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly moderate easterly winds, at times oscillating between east-northeasterly and east- southeasterly, with an average speed of 15-30 km/h, are expected.

Mostly low to rainfall totals, moderate wind speeds, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 4.0 to 8.0 mm per day.

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Moisture levels:

Over the fifteen-day period across Trinidad and Tobago moisture levels are expected with a high in the 85% to 90% range. On dryer days moisture levels can get down to a low of near 50%.

Highlighted Possible Impacts on Agriculture:

During this 15-day (01st – 15th) forecast period of February 2024, expect mostly sunny periods. Some light showery events, sometimes moderate in a few areas, will produce some relatively wet spells during the forecast period. Rescheduling of irrigation days on fields to maintain optimal soil moisture would be necessary on days that will have low rainfall. There is a low (25%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a low (20%) probability for flash and riverine flooding episodes. River levels will be low to moderate at times during the forecast period. There is also a low probability (28%) chance for fungi spread, insect pests and warm/moist weather diseases to develop in crop beds.

Weather Assessment for the period January 16th – 31st 2024.

At Piarco for the period January 16th – 31st 2024, mostly relatively dry rainfall days were recorded, with two relatively wet days recorded on the 17th (2.2mm) and 18th (4.0mm). At Crown Point for the period, ten relatively dry days were recorded with six relatively wet days on the 16th (7.0mm), 17th (1.7mm), 20th (1.0mm), 24th (1.1mm), 25th (2.3mm), and 26th (2.0mm).

The rainfall totals maps for the period, 16th – 31st of January 2024 for Trinidad and Tobago are located below as figure 1 and figure 2.

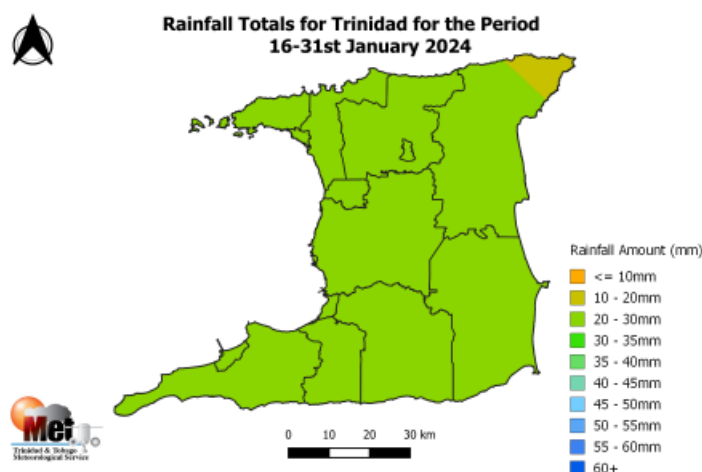


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 16th to 31st January 2024.

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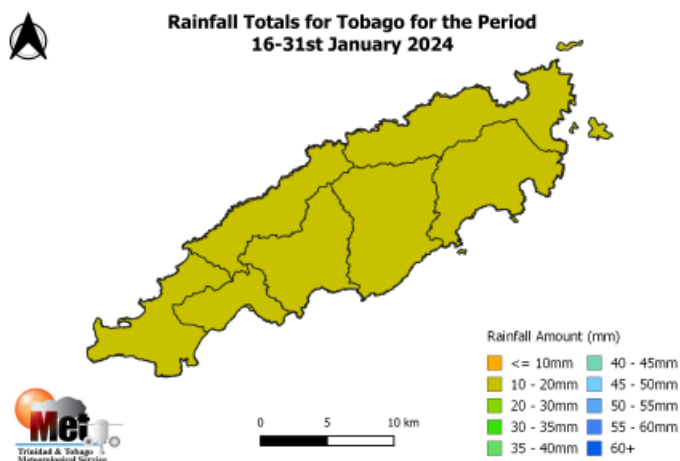


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 16th to 31st of January 2024.

Temperatures:

Temperatures for Trinidad were cool to warm during the period 16th to 31st of January, 2024, with the minimum nighttime temperature falling to 20.9°C and the maximum daytime temperature rising to 32.6°C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 16th to 31st of January, 2024, with the minimum nighttime temperature falling to 23.6°C and the maximum daytime temperature rising to 32.2°C.

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Temperatures & Winds:

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