

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st - 10th) of February, 2023

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 (1st - 15th) of February 2023.

Date	Weather	Temperature	Heat Real Feel	Day Moisture (Relative) (Humidity)	Wind















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1 st	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with shower	Warm  Max/Min Temperatures °C 31.0/19.5	Feels like 31-33°C	46-74%	 Weak north-easterly 15 km/h Gust 25 km/h
2 nd	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with shower	Warm  Max/Min Temperatures °C 31.5/20.0	Feels like 31-34°C	46-62%	 Moderate north-easterly 20 km/h Gust 30 km/h
3 rd	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with shower	Warm  Max/Min Temperatures °C 31.0/20.0	Feels like 31-33°C	57-76%	 Moderate north-easterly 20 km/h Gust 30 km/h
4 th	 60% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.5/21.0	Feels like 31.5-33°C	55-73%	 Moderate easterly 20 km/h Gust 30 km/h
				Warm			














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5 th	 60% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Max/Min Temperatures °C 31.0/22.0	Feels like 31-34°C	59-78%	 Moderate easterly 25 km/h Gust 35 km/h
6 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 30.0/22.0	Feels like 30-33°C	70-81%	 Moderate easterly 20 km/h Gust 30 km/h
7 th	 55% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 30.0/22.0	Feels like 30-33°C	75-84%	 Moderate easterly 20 km/h Gust 30 km/h
8 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	Warm  Max/Min Temperatures °C 30.0/21.0	Feels like 30-33°C	56-65%	 Moderate easterly 20 km/h Gust 30 km/h
9 th		Less than 1.0 mm of rainfall is possible	Patchy cloudiness	Warm	Feels		 Moderate easterly







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	25% chance of showers	rainfall is possible	with a shower	 Warm Max/Min Temperatures °C 31-33°C	Feels like	55-68%	25 km/h Gust 35 km/h
10 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Warm Max/Min Temperatures °C 30.0/22.0	Feels like	63-78%	 Moderate easterly 25 km/h Gust 35 km/h
11 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	 Warm Max/Min Temperatures °C 30.0/22.0	Feels like	46-62%	 Moderate easterly 25 km/h Gust 35 km/h
12 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Warm Max/Min Temperatures °C 31.5/21.0	Feels like	76-82%	 Moderate easterly 20 km/h Gust 30 km/h
13 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Warm Max/Min Temperatures °C 30.0/22.0	Feels like	76-87%	 Moderate easterly 25 km/h Gust 35 km/h

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14 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	<p>Warm</p>  Max/Min Temperatures °C 30.0/23.0	Feels like 77-87%	 Moderate easterly 20 km/h Gust 30 km/h
15 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	<p>Warm</p>  Max/Min Temperatures °C 30.0/23.0	Feels like 66-81%	 Moderate easterly 20 km/h Gust 30 km/h

Trinidad Rainfall Forecast for the 15-Day period of February (1st – 15th) 2023.

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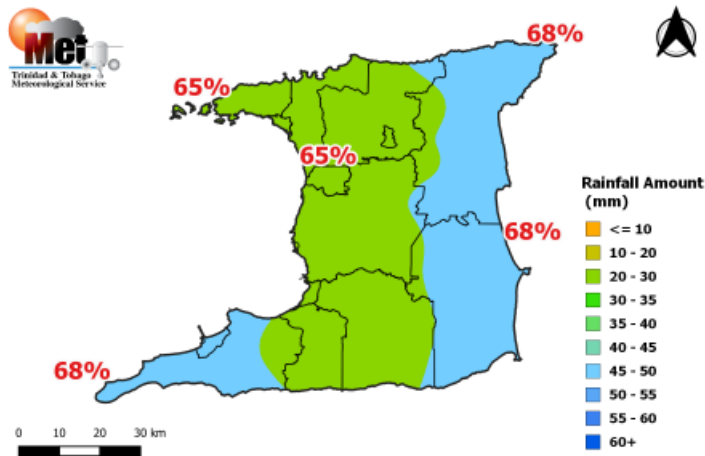


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1st - 15th) February 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 4.5 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 5.0 mm.

Southern areas

Moderate chance (65%) of mean daily rainfall up to 4.3 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 4.6 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 2.5 mm.

Northern, North-Western areas

Moderate chance (65%) of mean daily rainfall up to 2.5 mm.

Tobago Rainfall Forecast for the 15-Day period of February (1st - 15th) 2023.

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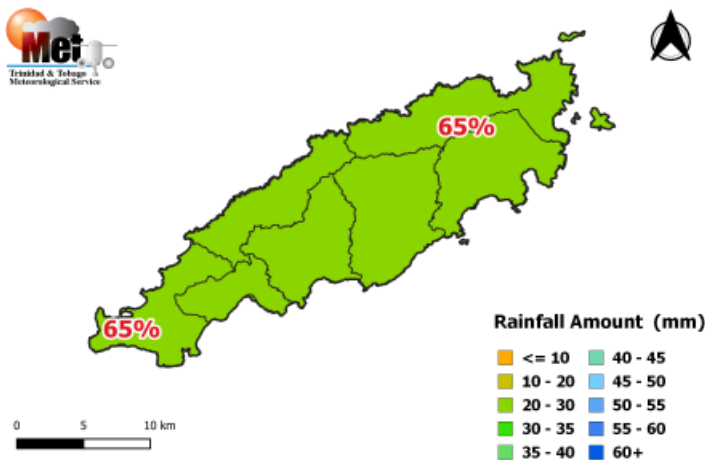


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (1st - 15th) February 2023 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 2.5 mm.

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 2.5 mm.

Sun and Moon Positions in the Sky February (1st - 15th) 2023.

The sun is presently at 17.0 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from February 1st will be 11 hours and 41 minutes, rising slightly to 11 hours and 48 minutes by 15th February 2023. According to the moon's phases, the 1st-3rd and 15th of February are good days for planting aboveground crops, while 9th-12th and 15th are good days to plant below ground crops. However 4th, 5th (Full Moon Phase), 7th-8th and 13th (Third Quarter Phase)-14th are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

Weather Assessment for the period December (21st - 31st) 2023.

Two wet days occurred on the 21st and 31st of January over Trinidad and Tobago. Crop growth and development rates may have increased due to available moisture and many sunny days.

Temperatures:

Temperatures were cool to warm during the period 21st-31st of January, with the minimum nighttime temperature falling

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to 18.3 °C and the maximum daytime temperature rising to 31.4 °C, in Trinidad.

Similarly, temperatures in Tobago were cool to warm during the period 21st-31st of January, with the minimum nighttime temperature falling to 20.3 °C and the maximum daytime temperature rising to 30.3 °C.

Summary

Low rainfall amounts are expected during the fifteen days.

Eight relatively wet days with rainfall amounts less than 5.0 mm are expected on the 4th-7th, 10th, 12th-14th of February, while seven relatively dry days with rainfall amounts less than 1.0 mm are expected on 1st-3rd, 8th-9th, 11th and 15th February 2023.

Trinidad and Tobago:

Eight relatively wet days with rainfall amounts less than 5.0 mm are expected on the 4th-7th, 10th, 12th-14th of December, while seven relatively dry days with rainfall amounts less than 1.0 mm are expected on the 1st-3rd, 8th-9th, 11th and 15th February 2023. The daily rainfall totals are forecast to range between 0.0 mm to 5.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 25.0 mm and 50.0 mm. The impactful rainfall events will mostly occur across the eastern, parts of Trinidad and south eastern Tobago.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 30.0°C to 31.5°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 30.0°C to 33.0°C on most days. The minimum temperatures will range between 19.5°C to 23.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

Mostly weak to moderate north-easterly to easterly winds of an average speed of 20-25 km/h are expected, with gusts of 30-35 km/h at times. Low rainfall totals, low to moderate wind speeds, cool to warm days and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 5.0 to 9.0 millimeters per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be moderate to high, with average daytime relative humidity values in the upper-40s to lower-80s, in terms of percentage.

Highlighted Possible Impacts on Agriculture:

During this first 15-day forecast period of (1st to 15th) February 2023, expect similar conditions to occur as compared to the third 15-day (21st to 04th) January/February forecast period. There is a moderate probability (50%) chance for crop irrigation measures to take place owing to the drying out of soils during the forecast period. There is also a low probability (20%) chance for fungi spread, root and/or fruit rot, insect pests and warm weather diseases to develop in crop beds. River levels will remain at low levels during this forecast period.

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