

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16th - 30th) of November, 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 (16th-30th) of November 2023.

Date	Weather	Temperature	Heat Real Feel	Day Moisture (Relative) (Humidity)	Wind
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16 th	 65% chance of showers	Less than 6.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.0/23.5	Feels like 30-33°C	78-88%	 Weak easterly 10 km/h Gust 20 km/h
17 th	 75% chance of showers	11.0- 25.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm  Max/Min Temperatures °C 29.0/24.0	Feels like 29-33°C	75-91%	 Weak easterly 10 km/h Gust 20 km/h
18 th	 45% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 33.0/25.0	Feels like 32-38°C	59-68%	 Weak south-easterly 10 km/h Gust 20 km/h
19 th	 45% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 33.0/23.0	Feels like 32-38°C	59-67%	 Weak south-easterly 10 km/h Gust 20 km/h
				Warm			














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20 th	 45% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers	 Max/Min Temperatures °C 33.0/23.0	Feels like 32-38°C	61-70%	Weak south-easterly 10 km/h Gust 20 km/h
21 st	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 32-40°C	68-74%	 Weak south-easterly 10 km/h Gust 20 km/h
22 nd	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 32-36°C	67-73%	 Weak easterly 10 km/h Gust 20 km/h
23 rd	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 32-37°C	64-73%	 Weak south-easterly 10 km/h Gust 20 km/h
		11.0- 25.0 mm of	Partly cloudy	Warm	Feels		 Weak easterly







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24 th	75% chance of showers	rainfall is possible	to cloudy with showers	 Max/Min Temperatures °C 30.0/23.0 Warm	like 30- 33°C	71-81%	10 km/h Gust 20 km/h
25 th	 55% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	 Max/Min Temperatures °C 31.0/23.0	Feels like 31- 36°C	67-73%	 Weak easterly 10 km/h Gust 20 km/h
26 th	 45% chance of showers	Less than 6.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.0/22.5	Feels like 31- 36°C	70-82%	 Weak easterly 10 km/h Gust 20 km/h
27 th	 45% chance of showers	Less than 6.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 32.0/22.5	Feels like 32- 37°C	61-68%	 Weak easterly 10 km/h Gust 20 km/h
28 th	 45% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min	Feels like 32-	60-71%	 Weak easterly 10 km/h Gust

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				Temperatures °C 32.0/22.5	37°C		20 km/h
29 th	 55% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	 Warm Max/Min Temperatures °C 32.5/22.5	Feels like 32-38°C	54-77%	 Weak easterly 10 km/h Gust 20 km/h
30 th	 75% chance of showers	11.0- 25.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	 Warm Max/Min Temperatures °C 31.0/22.5	Feels like 31-36°C	66-74%	 Weak easterly 10 km/h Gust 20 km/h

Trinidad Rainfall Forecast for the 15-Day period of November (16th-30th) 2023.

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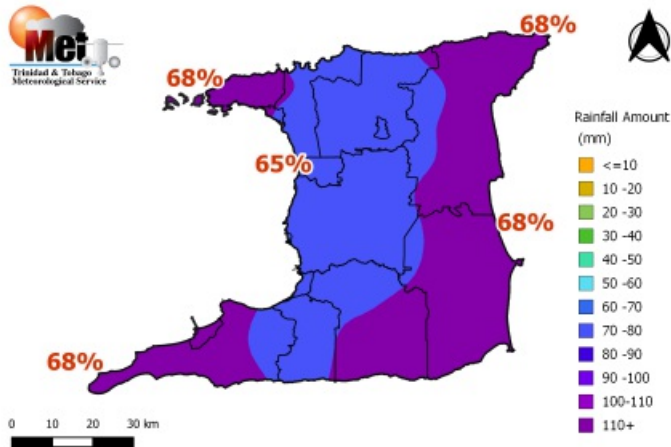


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16th-30th) November 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 12.5 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 12.5 mm.

Southern areas

Moderate chance (68%) of mean daily rainfall up to 12.5 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 12.5 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 7.5 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 12.5 mm.

Tobago Rainfall Forecast for the 15-Day period of November (16th-30th) 2023.

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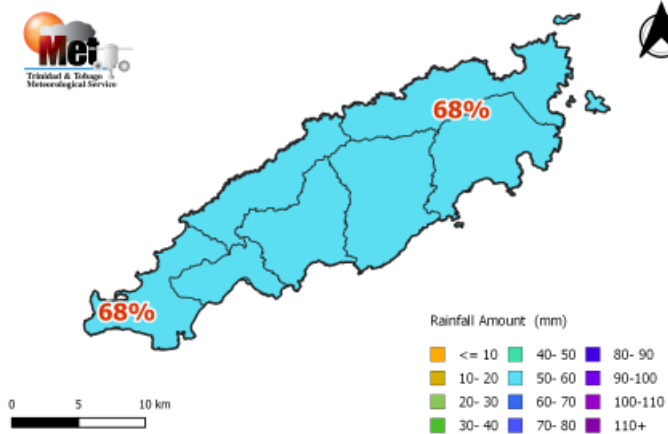


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16th-30th) November 2023 and percentage probability of occurrence.

North-Eastern areas

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

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 5.0 mm.

Sun and Moon Positions in the Sky November (16th-30th) 2023.

The sun is presently at 18.5 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from November 1st will be 11 hours and 38 minutes, decreasing slightly to 11 hours and 33 minutes by 3rd of November 2023. According to the moon's phases, the 16th-17th, 20th (First Quarter Phase)-21st, and 24th-25th of November are good days for planting aboveground crops, while 2nd the 9th-30th of November are good days for planting below-ground crops. However, 18th-19th, 22nd-23rd, 26th, 27th (Full Moon Phase), and 28th of November are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

Highlighted Possible Impacts on Agriculture:

During this second 15-day (16th-30th) forecast period of November 2023, expect similarly partly cloudy to cloudy periods with showery episodes as compared to the first 15-day forecast period of November. Mostly light to moderate/heavy showery events will produce some wet days during the forecast period. Therefore, rescheduling irrigation days on fields to maintain optimal soil moisture would be necessary on days that will have low rainfall. There is a low (30%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate (65%)

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probability for flash and riverine flooding episodes. River levels will be low to moderate at times during the forecast period. There is also a moderate probability (68%) chance for fungi spread, insect pests and warm/moist weather diseases to develop in crop beds.

Weather Assessment for the period November (1st-14th) 2023.

Moderate to high amounts of rainfall occurred during the 4th, 7th, 8th, 11th and 14th of November across Trinidad and Tobago. The rainfall total maps for the period, 1st to 14th of November for Trinidad and Tobago are located below as figure 1 and figure 2.

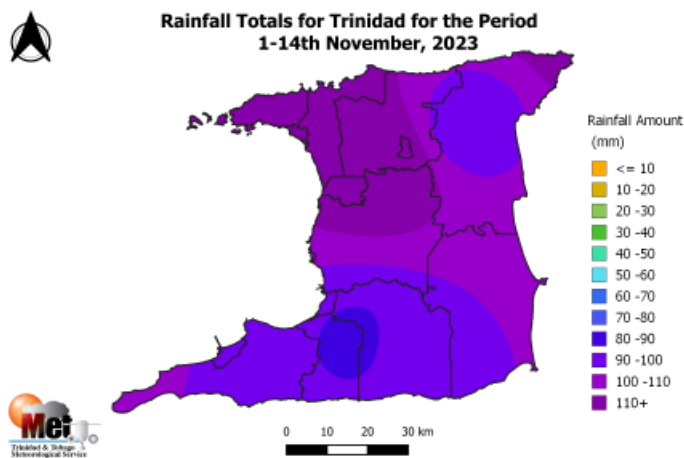


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 1st to 14th of November 2023.

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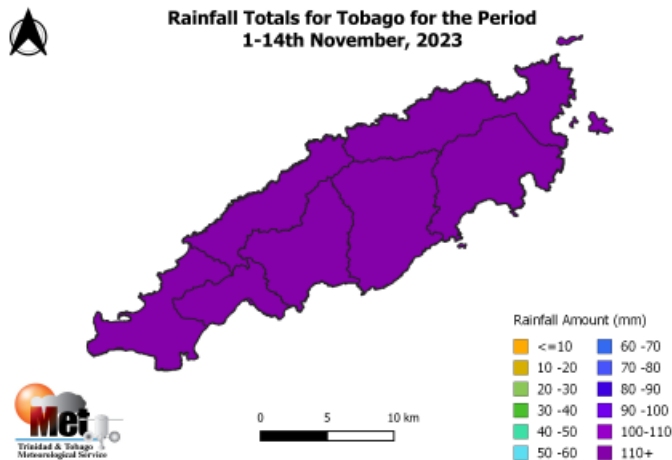


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 1st to 14th of November 2023.

Temperatures:

Temperatures were cool to warm during the period 1st to 14th of November, with the minimum nighttime temperature falling to 23.3 °C and the maximum daytime temperature rising to 33.0 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1st to 14th of November, with the minimum nighttime temperature falling to 23.8 °C and the maximum daytime temperature rising to 33.4 °C.

Summary

Summary of Expected Weather:

Moderate rainfall amounts are expected during the fifteen days.

Wet days with rainfall amounts ranging between 11.0-25.0 mm are expected on the 17th, 24th and 30th of November while days with 9.0 mm or less of rainfall are expected on all other days.

Trinidad and Tobago:

Wet days with rainfall amounts ranging between 11.0-25.0 mm are expected on the 17th, 24th and 30th of November while days with 9.0 mm or less of rainfall are expected on all other days. The daily rainfall totals are forecast to range between 1.0 mm to 25.0 mm across different farmlands across the islands, especially along the eastern and western coastal areas of Trinidad, and Tobago. The fifteen-day rainfall totals range between 75.0 mm and 125.0 mm in Trinidad, and around 50.0 mm in Tobago.

Temperatures & Winds:

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The maximum temperatures are expected to become warm, with daily temperatures ranging between 29.0°C to 33.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 29.0°C to 40.0°C on most days. The minimum temperatures will range between 22.5°C to 25.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly weak easterly to southeasterly winds with an average speed of 10-20 km/h are expected. Moderate rainfall totals, mostly light speeds, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 2.0 to 9.0 mm per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be moderate, with average daytime relative humidity values in the high-50s to low-90s, in terms of percentage.

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