

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First 15-Day Period (1st-15th) 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 (1st-15th) of November 2023.

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

Disclaimer













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Issue date: 2023-10-31

1 st	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 30.0/25.0	Feels like 30-36°C	63-68%	 Weak easterly 10 km/h Gust 20 km/h
2 nd	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers mostly in western areas	Warm  Max/Min Temperatures °C 30.0/26.0	Feels like 30-38°C	62-81%	 Weak easterly 10 km/h Gust 20 km/h
3 rd	 75% chance of showers	10.0- 15.0 mm of rainfall is possible	Partly cloudy with showers mostly in western areas	Warm  Max/Min Temperatures °C 29.0/26.0	Feels like 29-33°C	71-84%	 Weak easterly 10 km/h Gust 20 km/h
4 th	 75% chance of showers	10.0- 15.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 29.0/26.0	Feels like 29-33°C	71-86%	 Weak south-easterly 10 km/h Gust 20 km/h
5 th	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min	Feels		 Weak south-easterly 10 km/h
















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		possible		Temperatures °C 30.0/26.0	like 30-38C	70-75%	Gust 20 km/h
6 th	 30% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers mostly in western areas	Warm  Max/Min Temperatures °C 30.0/26.5	Feels like 30- 38°C	78-85%	 Weak south- easterly 10 km/h Gust 20 km/h
7 th	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy with showers mostly in western areas	Warm  Max/Min Temperatures °C 29.0/26.0	Feels like 29- 34°C	70-82%	 Weak south- easterly 10 km/h Gust 20 km/h
8 th	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.0/26.0	Feels like 30- 36°C	67-71%	 Weak easterly 10 km/h Gust 20 km/h
9 th	 65% chance of showers	Less than 9.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.5/26.5	Feels like 31- 36°C	70-79%	 Weak easterly 10 km/h Gust 20 km/h




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10 th	 45% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm  Max/Min Temperatures °C 31.0/26.5	Feels like 31-36°C	67-71%	 Weak easterly 10 km/h Gust 20 km/h
11 th	 75% chance of showers	10.0-25.0 mm of rainfall is possible	Partly cloudy to cloudy with mod/heavy showers	Warm  Max/Min Temperatures °C 30.0/26.0	Feels like 30-32°C	83-89%	 Weak easterly 10 km/h Gust 20 km/h
12 th	 50% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.0/26.5	Feels like 31-35°C	56-72%	 Weak easterly 10 km/h Gust 20 km/h
13 th	 35% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.0/25.0	Feels like 30-35°C	72-79%	 Weak easterly 10 km/h Gust 20 km/h
14 th	 35% chance	Less than 2.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min	Feels like		 Weak easterly 10 km/h

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	of showers	possible		Temperatures °C 31.0/25.0	30- 36°C	65-76%	Gust 20 km/h
15 th	 35% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.0/24.0	Feels like 31- 36°C	65-76%	 Weak easterly 10 km/h Gust 20 km/h

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

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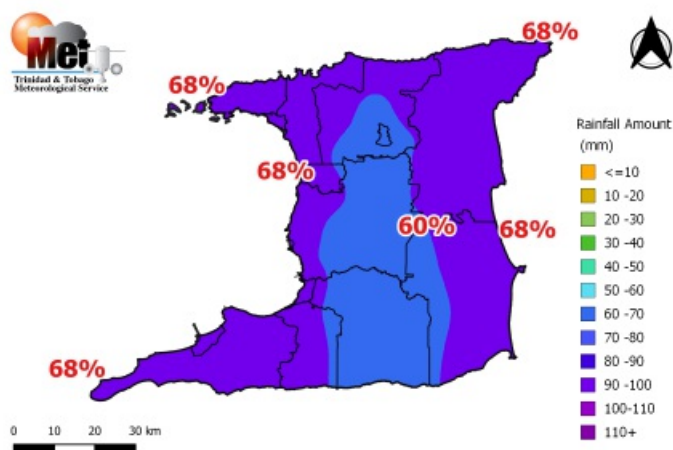


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1st-15th) November 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

Southern areas

Moderate chance (60%) of mean daily rainfall up to 7.0 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

Central, West-Central, and inland areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

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

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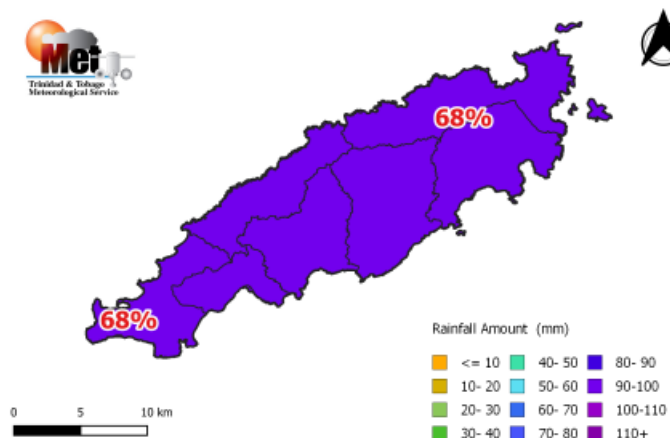


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (1st-15th) November 2023 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

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

The sun is presently at 13.9 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 45 minutes, decreasing slightly to 11 hours and 38 minutes by the 15th of November 2023. According to the moon's phases, the 9th-10th of November are good days for planting aboveground crops, while the 1st-3rd and 9th-12th of November are good days for planting below ground crops. However, the 4th, 5th (Third Quarter Phase)-8th and 13th (New Moon Phase)-15th 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 first 15-day (1st-15th) forecast period of November 2023, expect similarly partly cloudy to cloudy periods with showery episodes as compared to the last 15-day forecast period of October. Mostly light to moderate/heavy showery events will produce some wet days during the forecast period. Therefore, 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 (45%) chance of heat

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stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate (60%) 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 October (16th-30th) 2023.

Moderate amounts of rainfall occurred during the 2nd, 21st, 23rd and 27th of October across Trinidad only. The rainfall totals maps for the period, 16th to 30th of October for Trinidad and Tobago are located below as figure 1 and figure 2.

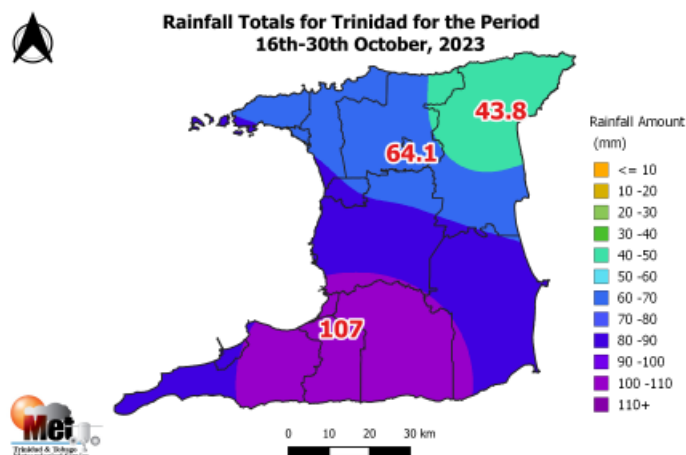


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 16th to 30th of October 2023.

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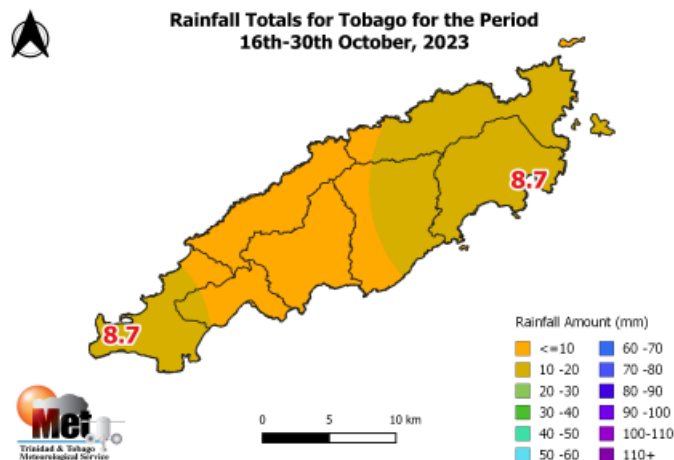


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 16th to 30th of October 2023.

Temperatures:

Temperatures were cool to hot during the period 16th to 30th of October, with the minimum nighttime temperature falling to 23.2 °C and the maximum daytime temperature rising to 34.8 °C, in Trinidad.

Similarly, Tobago temperatures were cool to very warm during the period 16th to 30th of October, with the minimum nighttime temperature falling to 24.8 °C and the maximum daytime temperature rising to 34.0 °C.

Summary

Summary of Expected Weather:

Low to moderate rainfall amounts are expected during the fifteen days.

Wet days with rainfall amount ranging between 10.0-25.0 mm are expected on the 3^d, 4th and 11th 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 amount ranging between 10.0-25.0 mm are expected on the 3^d, 4th and 11th 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 ranging between 70.0 mm and 100.0 mm in Trinidad, and around 100.0 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 31.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 29.0°C to 38.0°C on most days. The minimum temperatures will range between 24.0°C to 26.5°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. Low to moderate rainfall totals, mostly light speeds, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 4.0 to 7.0 mm per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be low to moderate, with average daytime relative humidity values in the mid-50s to mid-80s, in terms of percentage.

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