

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

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

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Issue date: 2023-04-15

16 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 32.5/25.0	Feels like 32-38°C	52-69%	 Moderate north-easterly 15 km/h Gust 25 km/h
17 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 33.0/24.0	Feels like 33-39°C	56-63%	 Moderate north-easterly 20 km/h Gust 30 km/h
18 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a shower	Warm  Max/Min Temperatures °C 33.0/24.0	Feels like 33-39°C	47-50%	 Moderate easterly 20 km/h Gust 30 km/h
19 th	 25% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	Warm  Max/Min Temperatures °C 33.0/23.5	Feels like 33-39°C	41-58%	 Moderate easterly 20 km/h Gust 30 km/h
		Less than 8.0 mm of	Partly cloudy		Feels		 Moderate north-














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20 th	65% chance of showers	rainfall is possible	with showers	Warm  Max/Min Temperatures °C	like 33-39°C	45-78%	easterly 20 km/h Gust 30 km/h
21 st	 65% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with showers	33.0/24.0 Warm  Max/Min Temperatures °C 33.0/24.0	Feels like 33-38°C	46-61%	 Moderate north-easterly 20 km/h Gust 30 km/h
22 nd	 45% chance of showers	Less than 12.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 32.0/25.0	Feels like 33-38°C	60-73%	 Moderate north-easterly 20 km/h Gust 30 km/h
23 rd	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.0/25.5	Feels like 31-38°C	72-86%	 Weak south-easterly 10 km/h Gust 20 km/h
24 th	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min	Feels like 31-	77-78%	 Weak south-easterly 10 km/h






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				Temperatures °C 31.0/24.5	38°C		Gust 20 km/h
25 th	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.5/24.0	Feels like 31- 38°C	78-80%	 Weak south- easterly 10 km/h Gust 20 km/h
26 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Patchy cloudiness with a shower or two	Warm  Max/Min Temperatures °C 31.0/24.0	Feels like 33- 38°C	79-90%	 Weak south- easterly 10 km/h Gust 20 km/h
27 th	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.5/25.0	Feels like 31- 38°C	74-84%	 Weak south- easterly 10 km/h Gust 20 km/h
28 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	Warm  Max/Min Temperatures °C 32.0/26.0	Feels like 32- 38°C	60-72%	 Moderate easterly 20 km/h Gust 30 km/h
				Warm			

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29 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	 Max/Min Temperatures °C 32.0/23.5	Feels like 32-38°C	61-69%	Moderate easterly 20 km/h Gust 30 km/h
30 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a shower	Warm  Max/Min Temperatures °C 32.0/24.5	Feels like 32-38°C	61-70%	 Moderate easterly 20 km/h Gust 30 km/h

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

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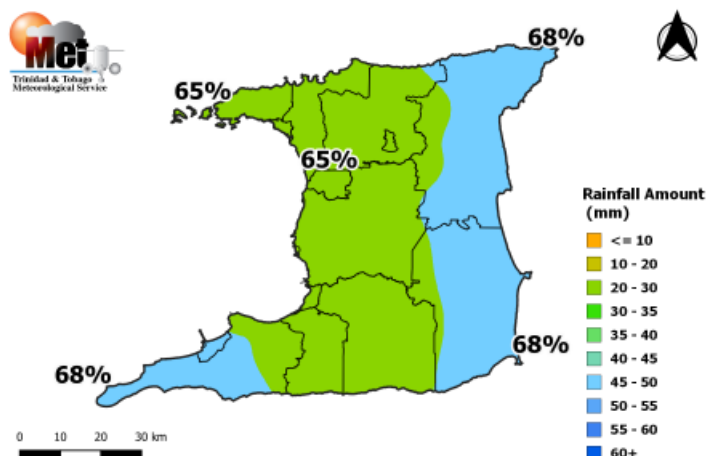


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16th-30th) April 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

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

South-Eastern areas

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

Southern areas

Moderate chance (68%) of mean daily rainfall up to 4.3 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 4.8 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 April (16th -30th) 2023.

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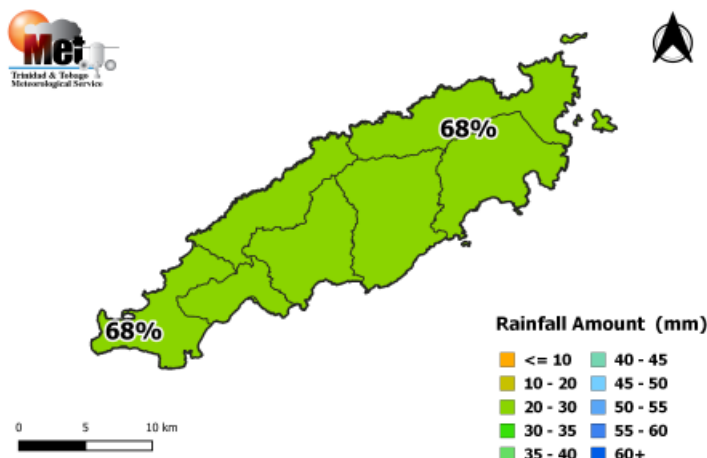


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16th-30th) April 2023 and percentage probability of occurrence.

North-Eastern areas

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

South-Western areas

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

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

The sun is presently at 9.5 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from April 16th will be 12 hours and 22 minutes, increasing slightly to 12 hours and 30 minutes by 30th April 2023. According to the moon's phases, the 16th, 20th-21st (New Moon Phase), and 24th-26th of April are good days for planting aboveground crops, while 16th of April is a good day for planting below-ground crops. However, the 17th-19th, 22nd-23rd and 27th (First Quarter Phase)-30th of April 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 forecast period of (16th-30th) April 2023, expect slightly wetter conditions to occur as compared to the first 15-day forecast period of April. Due to the expected mixed conditions, some drying out of soils will occur across certain parts of both islands. Therefore, frequent irrigation of fields will be necessary at this time to maintain soil moisture. In addition, stronger winds may hamper fertilizer and insecticide spraying routines. Temperatures are already warm, therefore there is a moderate probability (60%) chance of heat stress in young livestock, newly germinated

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and transplanted seedlings onto fields. There is also a moderate probability (40%) chance for fungi spread, insect pests and warm weather diseases to develop in crop beds.

Weather Assessment for the period March (1st-10th) 2023.

Very little rainfall occurred during the last ten days resulting in widespread drying over Trinidad. However, Tobago had a wet day (17.7 mm) on 5th of April. The rainfall total maps for the period, 1st to 10th of April for Trinidad and Tobago are located below as figure 1 and figure 2.

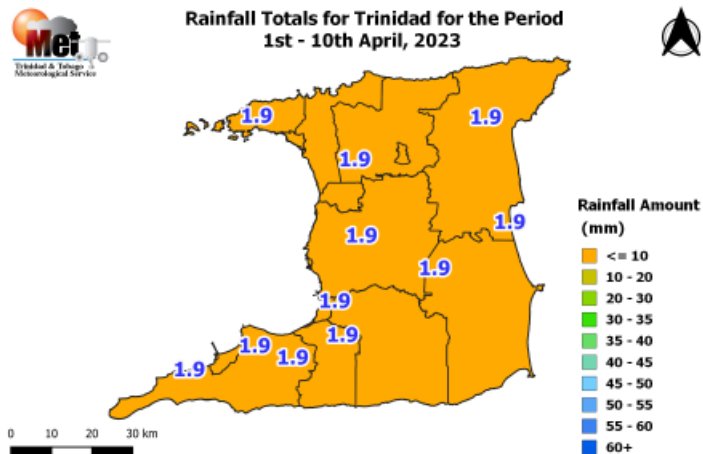


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 1st to 10th of April 2023.

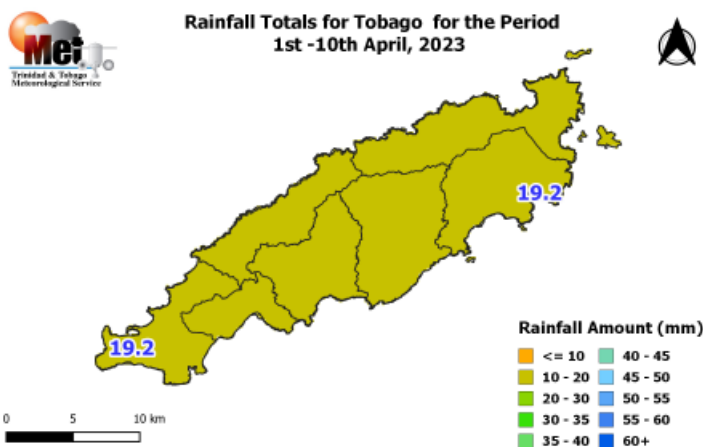


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 1st to 10th of April 2023.

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Temperatures:

Temperatures were cool to warm during the period 1st to 10th of April, with the minimum nighttime temperature falling to 22.1 °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 10th of April, with the minimum nighttime temperature falling to 22.9 °C and the maximum daytime temperature rising to 31.5 °C.

Summary

Summary of Expected Weather:

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

Relatively wet days with rainfall amounts less than 8.0 mm are expected during the 20th-27th while relatively dry days with rainfall less than 1.0 mm are expected on the 16th-19th and 28th-30th of April 2023.

Trinidad and Tobago:

Relatively wet days with rainfall amounts less than 8.0 mm are expected during the 20th-27th while relatively dry days with rainfall less than 1.0 mm are expected on the 16th-19th and 28th-30th of April 2023. The daily rainfall totals are forecast to range between 0.0 mm to 8.0 mm across different farmlands across the islands, especially along the eastern coastal areas of Trinidad and western areas of Tobago with fifteen-day rainfall totals ranging between 25.0 mm and 50.0 mm in Trinidad and Tobago.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with daily temperatures ranging between 31.0°C to 33.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 31.0°C to 38.0°C on most days. The minimum temperatures will range between 23.5°C to 26.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly northeasterly and easterly winds of an average speed of 20 km/h are expected, however, gusts can range between 30-50 km/h. Low to moderate rainfall totals, mostly moderate speeds, warmer days, and warmer feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 4.0 to 10.0 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-40s to low-90s, in terms of percentage.

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