

## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16th - 31st) of May, 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(16<sup>th</sup>-31<sup>st</sup>) of May 2023.

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













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16 <sup>th</sup>	 30% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm Max/Min Temperatures °C 32.0/25.0		Feels like 56-74% 33-40°C	☀☀☀ Moderate easterly 20 km/h Gust 30 km/h
17 <sup>th</sup>	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm Max/Min Temperatures °C 33.0/24.5		Feels like 60-72% 33-40°C	☀☀☀ Moderate easterly 20 km/h Gust 30 km/h
18 <sup>th</sup>	 30% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm Max/Min Temperatures °C 33.0/24.5		Feels like 57-65% 33-40°C	☀☀☀ Moderate easterly 20 km/h Gust 30 km/h
19 <sup>th</sup>	 40% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 33.5/25.0		Feels like 56-67% 33-40°C	☀☀☀ Moderate easterly 20 km/h Gust 30 km/h
20 <sup>th</sup>	 55% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Warm Max/Min Temperatures °C 33-		Feels like 56-65% 33-	☀☀☀ Moderate easterly 20 km/h Gust













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				33.5/25.0		40°C		30 km/h
21 <sup>st</sup>	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 33.0/25.5		Feels like 57-70%		Weak south-easterly 10 km/h Gust 20 km/h
22 <sup>nd</sup>	 65% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 30.0/25.0		Feels like 77-85%		Weak south-easterly 10 km/h Gust 20 km/h
23 <sup>rd</sup>	 55% chance of showers	Less than 4.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 33.0/24.5		Feels like 59-64%		Weak south-easterly 10 km/h Gust 20 km/h
24 <sup>th</sup>	 45% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 32-		Feels like 56-63%		Weak south-easterly 10 km/h Gust










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				33.5/25.0		38°C		20 km/h
25 <sup>th</sup>	 55% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 33.0/25.0		Feels like 62-67% 33-40°C		Weak south-easterly 10 km/h Gust 20 km/h
26 <sup>th</sup>	 65% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 32.0/25.0		Feels like 71-78% 32-38°C		Weak south-easterly 10 km/h Gust 20 km/h
27 <sup>th</sup>	 65% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm Max/Min Temperatures °C 33.0/24.5		Feels like 57-65% 33-38°C		Weak south-easterly 10 km/h Gust 20 km/h
28 <sup>th</sup>	 60% chance of showers	Less than 9.0 mm of rainfall is possible	Patchy cloudiness with showers	Warm Max/Min Temperatures °C 32-		Feels like 67-78% 32-		Moderate easterly 20 km/h Gust

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29 <sup>th</sup>	 68% chance of showers	Less than 15.0 mm of rainfall is possible	Partly cloudy with showers	32.0/24.5 <b>Warm</b> Max/Min Temperatures °C 30.0/25.0	 Feels like 38°C 30-36°C	68-80%	 Weak south-easterly 10 km/h Gust 20 km/h
30 <sup>th</sup>	 68% chance of showers	Less than 25.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	<b>Warm</b> Max/Min Temperatures °C 31.0/26.0	 Feels like 38°C 32-38°C	78-88%	 Moderate easterly 20 km/h Gust 30 km/h
31 <sup>st</sup>	 68% chance of showers	Less than 15.0 mm of rainfall is possible	Partly cloudy with showers	<b>Warm</b> Max/Min Temperatures °C 30.0/26.0	 Feels like 38°C 30-36°C	78-88%	 Moderate easterly 20 km/h Gust 30 km/h

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Page 6 of 13

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Page 7 of 13

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Page 8 of 13

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Page 9 of 13

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Trinidad Rainfall Forecast for the 15-Day period of May (16<sup>th</sup>-31<sup>st</sup>) 2023.

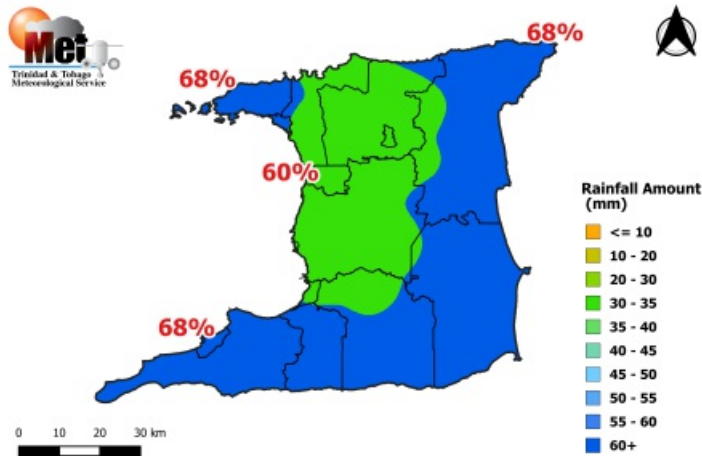


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16<sup>th</sup>-31<sup>st</sup>) May 2023 and percentage probability of occurrence.

**Eastern, and North-Eastern areas**

Moderate chance (68%) of mean daily rainfall up to 6.2 mm.

**South-Eastern areas**

Moderate chance (68%) of mean daily rainfall up to 7.0 mm.

**Southern areas**

Moderate chance (68%) of mean daily rainfall up to 7.0 mm.

**South-Western areas**

Moderate chance (68%) of mean daily rainfall up to 7.0 mm.

**Central, West-Central, and inland areas**

Moderate chance (60%) of mean daily rainfall up to 3.0 mm.

**Northern, North-Western areas**

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

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**Tobago Rainfall Forecast for the 15-Day period of May (16<sup>th</sup> –31<sup>st</sup>) 2023.**

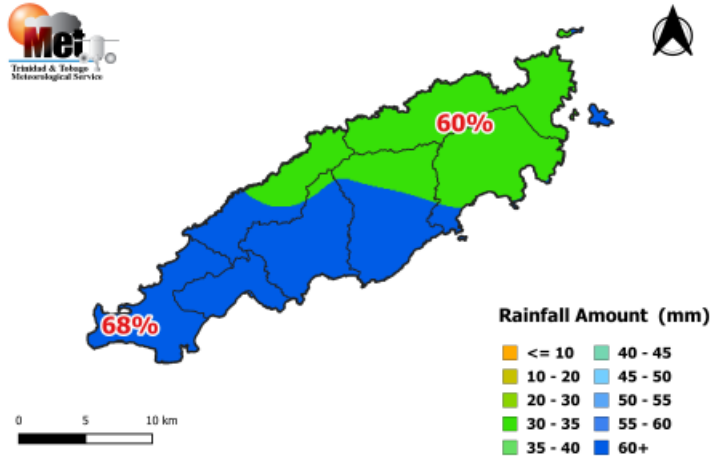


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16<sup>th</sup>-31<sup>st</sup>) May 2023 and percentage probability of occurrence.

**North-Eastern areas**

Moderate chance (68%) of mean daily rainfall up to 7.0 mm.

**South-Western areas**

Moderate chance (60%) of mean daily rainfall up to 4.3 mm.

**Sun and Moon Positions in the Sky May (16<sup>th</sup>-31<sup>st</sup>) 2023.**

The sun is presently at 19.15 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from May 16<sup>th</sup> will be 12 hours and 37 minutes, increasing slightly to 12 hours and 42 minutes by 31<sup>st</sup> May 2023. According to the moon's phases, the 21<sup>st</sup>-23<sup>rd</sup>, and 29<sup>th</sup>-31<sup>st</sup> of May are good days for planting aboveground crops, while the 17<sup>th</sup>-18<sup>th</sup> of May are good days for planting below ground crops. However, the 15<sup>th</sup>-16<sup>th</sup>, 19<sup>th</sup>(New Moon Phase)-20<sup>th</sup> and 24<sup>th</sup>-27<sup>th</sup> (First Quarter Phase) and 28<sup>th</sup> of May 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 (16<sup>th</sup>-31<sup>st</sup>) May 2023, expect wetter conditions to occur as compared to the first 15-day forecast period of May. The low moisture content in the soils will continue in areas across both islands during

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the first four days followed by wetter conditions during the second twelve days. Therefore, frequent irrigation of fields will be necessary during the four days to maintain soil moisture. In addition, stronger winds may hamper fertilizer and insecticide spraying routines. There is a moderate probability (68%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a moderate probability (60%) chance for fungi spread, insect pests and warm weather diseases to develop in crop beds.

### Weather Assessment for the period May (1<sup>st</sup>-15<sup>th</sup>) 2023.

Very low amounts of rainfall occurred during the 1<sup>st</sup> to 15<sup>th</sup> of May resulting in widespread drying of soils over Trinidad and Tobago. The rainfall totals maps for the period, 1<sup>st</sup> to 15<sup>th</sup> of May for Trinidad and Tobago are located below as figure 1 and figure 2.

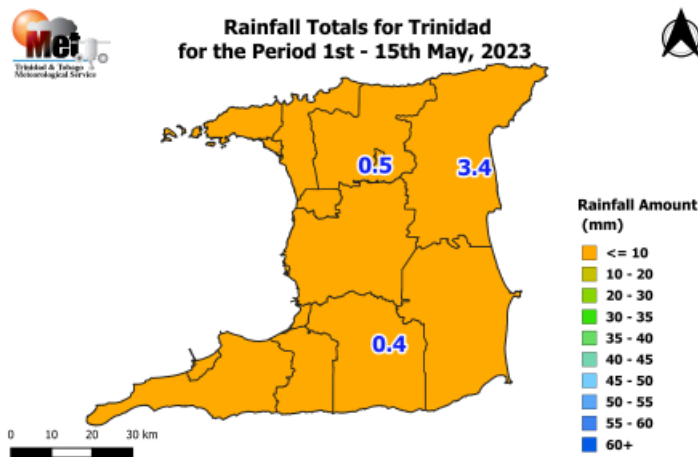
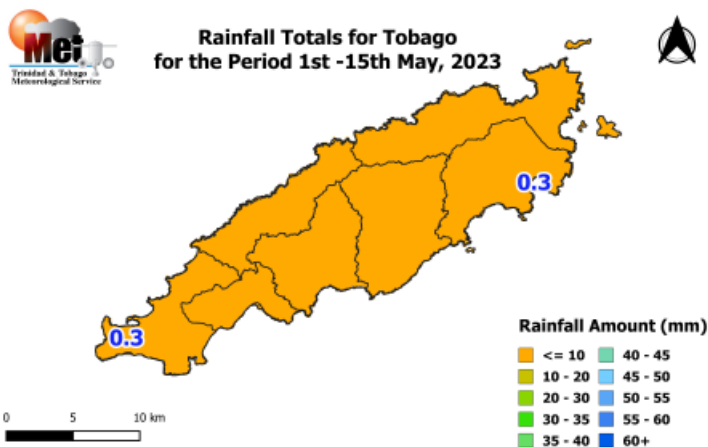


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 1<sup>st</sup> to 15<sup>th</sup> of May 2023.



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**Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 1<sup>st</sup> to 15<sup>th</sup> of May 2023.**

### Temperatures:

Temperatures were cool to warm during the period 1<sup>st</sup> to 15<sup>th</sup> of May, with the minimum nighttime temperature falling to 23.1 °C and the maximum daytime temperature rising to 33.2 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1<sup>st</sup> to 15<sup>th</sup> of May, with the minimum nighttime temperature falling to 24.4 °C and the maximum daytime temperature rising to 31.3 °C.

### Summary

**Low to moderate rainfall amounts are expected during the sixteen days.**

Relatively wet days with rainfall amounts less than 9.0 mm are expected during the 16<sup>th</sup>-28<sup>th</sup> while wet days with rainfall greater than 10.0 mm are expected on the 29<sup>th</sup>-31<sup>st</sup> of May 2023.

### Trinidad and Tobago:

Relatively wet days with rainfall amounts less than 9.0 mm are expected during the 16<sup>th</sup>-28<sup>th</sup> while wet days with rainfall greater than 10.0 mm are expected on the 29<sup>th</sup>-31<sup>st</sup> of May 2023. The daily rainfall totals are forecast to range between 0.0 mm to 25.0 mm across different farmlands across the islands, especially along the northeastern, eastern and southern coastal areas of Trinidad and southwestern areas of Tobago with fifteen-day rainfall totals ranging between 30.0 mm and 70.0 mm in Trinidad and Tobago.

### Temperatures & Winds:

The maximum temperatures are expected to remain warm, with daily temperatures ranging between 30.0°C to 33.5°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 30.0°C to 42.0°C on most days. The minimum temperatures will range between 24.5°C to 26.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly easterly and southeasterly 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, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 3.0 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-50s to upper-80s, in terms of percentage.

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