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Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First 15-Day Period (1st-15th) 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 Rainfa	I	Rainfall below 50% of the average				
Much Above Normal Rainfa	II	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 May 2023.

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

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1 st	25% chance	1.0 mm of		Warm	Feels		Moderate easterly
	of showers	rainfall is possible	two	Max/Min Temperatures °C 33.0/24.0	33- 40°C	47-62%	20 km/h Gust 30 km/h
2 nd	25% chance of showers	Less than 1.0 mm of rainfall is possible		Warm Max/Min Temperatures °C 32.0/24.5	Feels like 32- 39°C	57-61%	Moderate easterly 20 km/h Gust 30 km/h
3 rd	20% 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- 40°C	46-60%	Moderate easterly 20 km/h Gust 30 km/h
4 th	20% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a	Warm Max/Min Temperatures °C 33.0/24.0	Feels like 33- 40°C	46-60%	Moderate easterly 20 km/h Gust 30 km/h
5 th	20% chance	Less than 1.0 mm of rainfall is	,	Warm	Feels like		Weak south- easterly 10 km/h



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	of showers	possible	shower	Max/Min	33-	46-65%	Gust
				Temperatures °C 31.0/25.0	40°C		20 km/h
6 th	20% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a shower	Warm Max/Min Temperatures °C 31.0/25.0	Feels like 33- 40°C	46-65%	Weak south- easterly 10 km/h Gust 20 km/h
7 th	65% chance of showers		Partly cloudy with showers		Feels like 33- 35°C	55-68%	Weak south- easterly 10 km/h Gust 20 km/h
8 th	25% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy	Warm Max/Min Temperatures °C 33.0/25.0	Feels like 33- 40°C	55-60%	Moderate easterly 20 km/h Gust 30 km/h
9 th	25% chance of showers	Less than 1.0 mm of rainfall is possible	l with a	Warm Max/Min Temperatures °C 33.0/25.0	Feels like 33- 40°C	55-60%	Moderate easterly 20 km/h Gust 30 km/h
				Warm <u>Disclaimer</u>			~ <<



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10 th	55% chance of showers		Partly cloudy with showers		Feels like 33- 40°C	46-65%	Moderate easterly 20 km/h Gust 30 km/h
11 th	65% chance of showers		Partly cloudy with showers		Feels like 31- 35°C	55-65%	Weak south- easterly 10 km/h Gust 20 km/h
12 th	65% chance of showers		Partly cloudy with showers		Feels like 34- 42°C	46-65%	Weak south- easterly 10 km/h Gust 20 km/h
13 th	20% chance of showers	Less than 1.0 mm of rainfall is possible	cloudiness	Very Warm Max/Min Temperatures °C 34.0/25.0	Feels like 32- 38°C	51-65%	Moderate easterly 20 km/h Gust 30 km/h
14 th	65% chance		Partly cloudy with showers		Feels like		Moderate easterly 20 km/h

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	of showers	possible		Max/Min Temperatures °C 34.0/25.0	32- 38°C	51-68%	Gust 30 km/h
15 th	65% chance of showers		Partly cloudy with showers		Feels like 32- 38°C	51-68%	Moderate easterly 20 km/h Gust 30 km/h

Trinidad Rainfall Forecast for the 15-Day period of May (1 $^{\rm st}$ –15 $^{\rm th}$) 2023.

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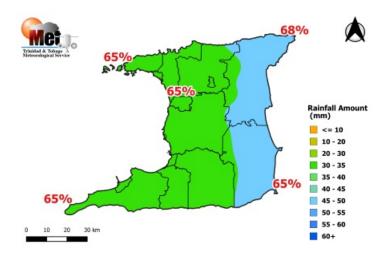


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1st-15th) May 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 4.8 mm.

South-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 4.6 mm.

Southern areas

Moderate chance (65%) of mean daily rainfall up to 3.3 mm.

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 3.0 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 3.0 mm.

Northern, North-Western areas

Moderate chance (65%) of mean daily rainfall up to 3.0 mm.

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

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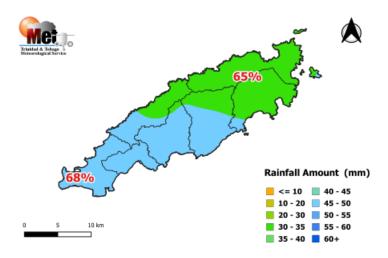


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (1st-15th) May 2023 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 3.0 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 4.7 mm.

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

The sun is presently at 14.25 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from May 1 st will be 12 hours and 30 minutes, increasing slightly to 12 hours and 37 minutes by 15 th May 2023. According to the moon's phases, the 2nd-4th of May are good days for planting aboveground crops, while 5th (Full Moon Phase), 8th-9th and 13th-14th of May are good days for planting below ground crops. However, 1st, 6th-7th, 10th-12th (Third Quarter Phase) and 15th 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 first 15-day forecast period of (1st-15th) May 2023, expect similar conditions to occur as compared to the second 15-day forecast period of April. Some drying out of soils will occur in certain areas across both islands during the first seven days followed by wetter conditions during the second eight days. Therefore, frequent irrigation of fields will be necessary during the first seven days to maintain soil moisture. In addition, stronger winds may hamper fertilizer and

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insecticide spraying routines. Trinidad and Tobago is moving into its heat season. Therefore, very warm days are expected, 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 April (16th-28th) 2023.

Moderate to high amounts of rainfall occurred during the 24^{th} - 27^{th} April resulting in wide spread wetting of soils and some flooding over Trinidad and Tobago. The rainfall totals maps for the period, 16^{th} to 28^{th} of April for Trinidad and Tobago are located below as figure 1 and figure 2.

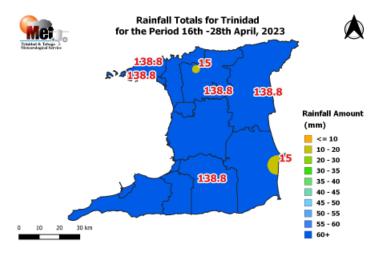
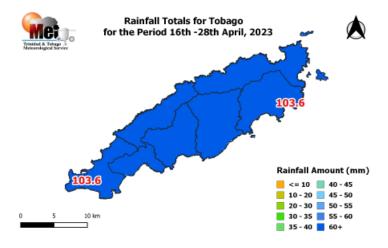


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 16th to 28th of April 2023.



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Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 16 th to 28th of April 2023.

Temperatures:

Temperatures were cool to warm during the period 16^{th} to 25^{th} of April, with the minimum nighttime temperature falling to 22.6 °C and the maximum daytime temperature rising to 33.2 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 16^{th} to 25^{th} of April, with the minimum nighttime temperature falling to $23.1\,^{\circ}$ C and the maximum daytime temperature rising to $31.7\,^{\circ}$ 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 9.0 mm are expected during the 7th, 10th, 11th, 12th, 14th and 15th while relative dry days with rainfall less than 1.0 mm are expected on the 1st-6th, 8th-9th and 13th of May 2023.

Trinidad and Tobago:

Relatively wet days with rainfall amounts less than 9.0 mm are expected during the 7th, 10th, 11th, 12th, 14th and 15th while relative dry days with rainfall less than 1.0 mm are expected on the 1st-6th, 8th-9th and 13th of May 2023. The daily rainfall totals are forecast to range between 0.0 mm to 9.0 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 30.0 mm and 50.0 mm in Trinidad and Tobago.

Temperatures & Winds:

The maximum temperatures are expected to remain warm to very warm, with daily temperatures ranging between 31.0°C to 34.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 31.0°C to 42.0°C on most days. The minimum temperatures will range between 23.5°C to 25.5°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly 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 12.0 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 upper-60s, in terms of percentage.

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