

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16th - 31st) of July, 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-31st) of July 2023.

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

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Issue date: 2023-07-14

16 th	 75% chance of showers	10.0 to 25.0 mm of rainfall is possible	Partly cloudy to cloudy with light/mod showers and T-showers	Warm  Max/Min Temperatures °C 32.0/26.0	Feels like 32-36°C	64-76%	 Moderate easterly 20 km/h Gust 30 km/h
17 th	 40% chance of showers	Less than 2.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 32.5/25.5	Feels like 32-36°C	55-68%	 Moderate easterly 20 km/h Gust 30 km/h
18 th	 30% chance of showers	Less than 1.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 33.0/26.0	Feels like 33-37°C	55-69%	 Moderate easterly 20 km/h Gust 30 km/h
19 th	 40% 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 32-37°C	56-73%	 Moderate easterly 20 km/h Gust 30 km/h
20 th	 40% chance of showers	Less than 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min	Feels like		 Moderate easterly 20 km/h
















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		possible		Temperatures °C 31.0/25.0	31-38°C	78-83%	Gust 30 km/h
21 st	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 32.0/25.0	Feels like 30-38°C	68-78%	 Weak south-easterly 10 km/h Gust 20 km/h
22 nd	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 32.0/25.5	Feels like 32-40°C	62-71%	 Weak south-easterly 10 km/h Gust 20 km/h
23 rd	 75% chance of showers	10.0 to 40.0 mm of rainfall is possible	Partly cloudy to cloudy with light/mod showers and T-showers	Warm  Max/Min Temperatures °C 30.0/24.0	Feels like 32-40°C	71-87%	 Weak south-easterly 10 km/h Gust 20 km/h
24 th	 40% chance of showers	Less than 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 32.0/24.0	Feels like 32-35°C	51-60%	 Moderate easterly 20 km/h Gust 30 km/h







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25 th	 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 33.0/25.5	Feels like 33-38°C	51-60%	 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	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 31.0/26.0	Feels like 32-36°C	66-83%	 Moderate easterly 25 km/h Gust 35 km/h
27 th	 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 33.0/24.5	Feels like 32-36°C	55-59%	 Moderate easterly 10 km/h Gust 20 km/h
28 th	 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 32.0/24.0	Feels like 32-36°C	65-75%	 Moderate easterly 20 km/h Gust 30 km/h
29 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min	Feels like	57-64%	 Moderate easterly 20 km/h

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				Temperatures °C 32.5/26.0	32- 38°C		Gust 30 km/h
30 th	 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 32.5/26.5	Feels like 32- 38°C	57-60%	 Moderate easterly 20 km/h Gust 30 km/h
31 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 32.5/26.5	Feels like 32- 38°C	57-60%	 Moderate easterly 20 km/h Gust 30 km/h

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Trinidad Rainfall Forecast for the 15-Day period of July (16th – 31st) 2023.

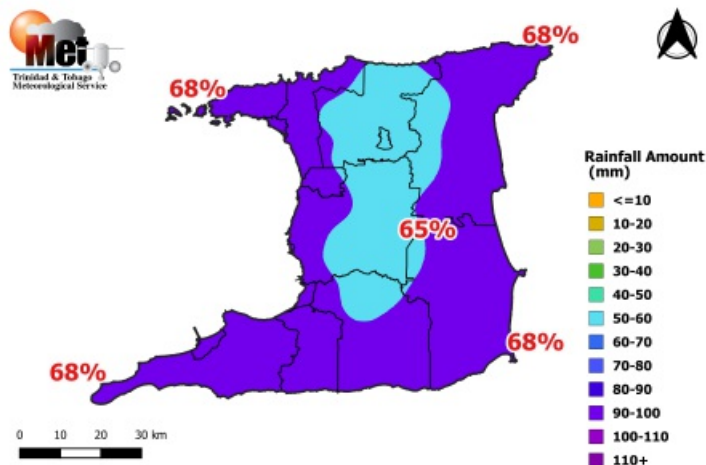


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16th-31st) July 2023 and percentage probability of occurrence.

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 (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.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 8.3 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 8.9 mm.

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Tobago Rainfall Forecast for the 15-Day period of July (16th –31st) 2023.

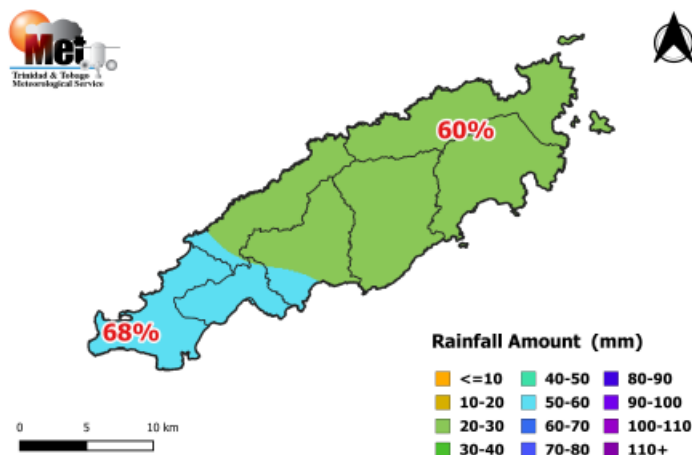


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16th-31st) July 2023 and percentage probability of occurrence.

North-Eastern areas

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

South-Western areas

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

Sun and Moon Positions in the Sky July (16th-31st) 2023.

The sun is presently at 21.6 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from July 1st will be 12 hours and 41 minutes, decreasing slightly to 12 hours and 35 minutes by 31st July 2023. According to the moon's phases, the 17th (New Moon Phase), 23rd-25th (First Quarter Phase), 26th and 29th-30th of July are good days for planting aboveground crops, while 16th of July are good day for planting below ground crops. However, 18th-22nd, 27th-28th and 31st of July 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-31st) forecast period of July 2023, expect less cloudy conditions to occur as compared to the first 15-day forecast period of July. Mostly light to moderate showery episodes will produce few wet days during the

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forecast period. Therefore, a possible ramping up of irrigation on fields to maintain optimal soil moisture would be necessary. There is a moderate probability (68%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate (60%) probability for strong winds during showers and flash and riverine flooding episodes. River levels will be 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 and possible flower/fruit rot in wet canopies.

Weather Assessment for the period July (1st-15th) 2023.

Moderate amounts of rainfall occurred during the 4th-5th and 9th July resulting in some areas having wetting of soils. The rainfall totals maps for the period, 1st to 14th of July for Trinidad and Tobago are located below as figure 1 and figure 2.

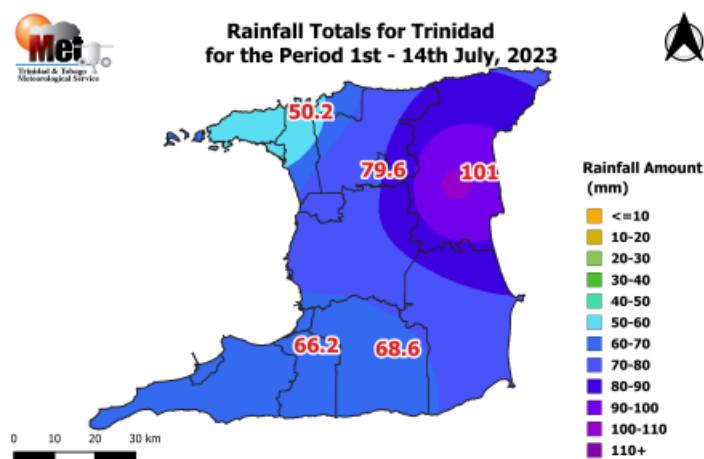
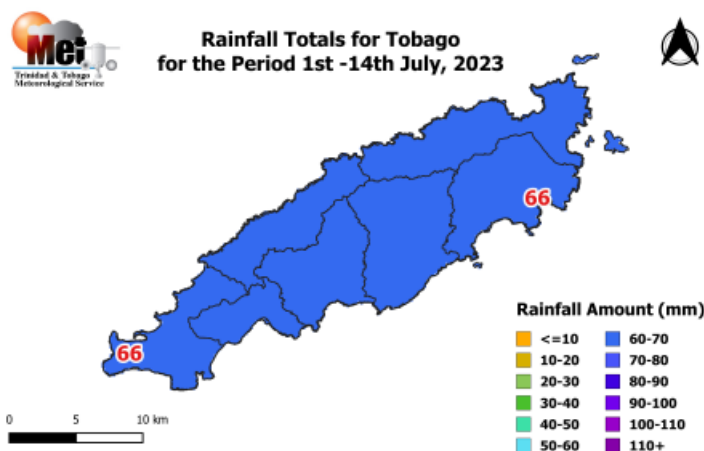


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 14th of July 2023.



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

Temperatures:

Temperatures were cool to warm during the period 1st to 14th of July, with the minimum nighttime temperature falling to 23.2 °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 July, with the minimum nighttime temperature falling to 23.4 °C and the maximum daytime temperature rising to 32.0 °C.

Summary

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

Wet days with rainfall amounts ranging between 10-40 mm are expected on the 16th and 23rd of July while relatively wet days with rainfall amounts less than 8.0 mm are expected during the 17th-22nd and 24th-31st of July 2023.

Trinidad and Tobago:

Wet days with rainfall amounts ranging between 10-40 mm are expected on the 16th and 23rd of July while relatively wet days with rainfall amounts less than 8.0 mm are expected during the 17th-22nd and 24th-31st of July 2023. The daily rainfall totals are forecast to range between 0.0 mm to 40.0 mm across different farmlands across the islands, especially along the eastern and western coastal areas of Trinidad, and southwestern Tobago with fifteen-day rainfall totals ranging between 60.0 mm and 100.0 mm in Trinidad, and between 30.0 mm and 60.0 mm in Tobago.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with daily temperatures ranging between 30.0°C to 33.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 32.0°C to 40.0°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 moderate easterly winds of an average speed of 20-30 km/h are expected, however, gusts can range between 40-70 km/h. Moderate to low rainfall totals, mostly moderate speeds, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 4.0 to 11.0 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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