

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st - 31st) of May, 2021

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 last dekad (21st – 31st) of May 2021

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

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Issue date: 2021-05-21

21 st	 40% chance showers	0.1 to 1.0 mm rainfall possible	Few cloudy patches with a shower or two	 Max Temp 32.3°C	Feels like 37-39°C	56-64%	Moderate easterly 20 km/h Gust 30 km/h
22 nd	 40% chance showers	0.1 to 2.0 mm rainfall possible	Few cloudy patches with a shower or two	Very warm  Max Temp 32.3°C	Feels like 36-40°C	54-65%	 Moderate easterly 20 km/h Gust 30 km/h
23 rd	 65% chance showers	1.0 to 8.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with light to moderate showers	Warm  Max Temp 31.5°C	Feels like 36-42°C	70-88%	 Weak south-easterly 12 km/h Gust 22 km/h
24 th	 Sunny		Sunny	Hot  Max Temp 32.3°C	Feels like 37-39°C	56-65%	 Moderate easterly 20 km/h Gust 30 km/h
				Hot			 Moderate








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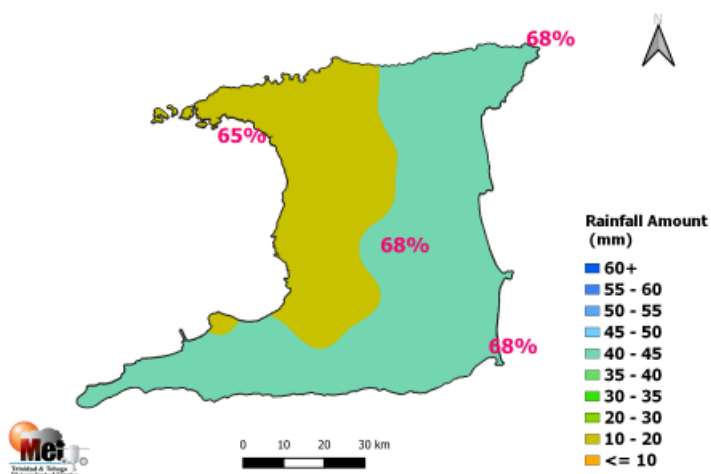
25 th	 Sunny		Sunny	 Max Temp 33.0°C	Feels like 38-42°C	56-68%	easterly 20 km/h Gust 30 km/h
26 th	 Sunny		Sunny	 Max Temp 32.5°C	Feels like 37-41°C	56-66%	 Moderate easterly 20 km/h Gust 30 km/h
27 th	 Sunny		Sunny	 Max Temp 33.5°C	Feels like 38-44°C	51-70%	 Moderate easterly 20 km/h Gust 30 km/h
28 th	 70% chance light/moderate showers	1.0 to 8.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with light to moderate showers	 Max Temp 31.5°C	Feels like 36-38°C	65-72%	 Moderate easterly 20 km/h Gust 30 km/h
29 th	 70% chance light/moderate	1.0 to 7.0 mm rainfall with higher amounts in the east	Partly cloudy with light to moderate		Feels like		 Weak easterly 10 km/h

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	showers	coast of Trinidad	showers	 Hot	36-38°C	57-68%	Gust 20 km/h
30 th	 Sunny		Sunny	 Max Temp 33.0°C	Feels like 37-41°C	51-65%	 Moderate easterly 20 km/h Gust 30 km/h
31 st	 Sunny		Sunny	Hot  Max Temp 33.0°C	Feels like 37-41°C	57-73%	 Moderate easterly 20 km/h Gust 30 km/h

Trinidad Rainfall Forecast for the last dekad of May (21st – 31st) 2021



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Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the last dekad of May 2021 and percentage probability of occurrence.

Eastern and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 4.4 mm.

South-Eastern areas

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

Southern areas

Moderate chance (68%) of mean daily rainfall up to 4.1 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 3.9 mm.

Central, West-Central and inland areas

Moderate chance (65%) of mean daily rainfall up to 2.3 mm.

Northern, North-Western areas

Moderate chance (65%) of mean daily rainfall up to 2.0 mm.

Tobago Rainfall Forecast for the last dekad of May (21st – 31st) 2021

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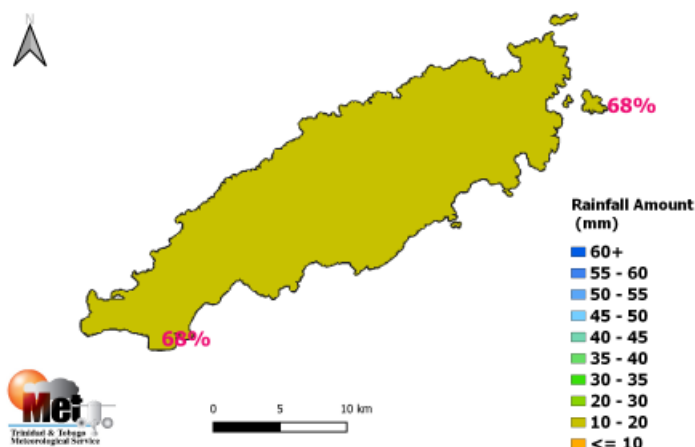


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Trinidad during the last dekad of May 2021 and percentage probability of occurrence

North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 2.0 mm.

South-Western areas

Moderate chance (68 %) of mean daily rainfall up to 2.0 mm.

Sun and Moon Positions in the Sky May 21st to 31st 2021

The sun is presently at the latitude 20.0 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from May 21st to May 31st will be 12 hours 36 minutes.

According to the moon phases, days 21st, 22nd, 23rd and 24th are good days for planting seedlings and above ground crops, while 27th, 28th and 29th are good days for planting below ground crops. However, poor planting or cultivating days are on the 25th and 26th (full moon) and barren days are on the 30th and 31st of May 2021.

Highlighted Possible Impacts on Agriculture:

The farmlands in Trinidad and Tobago had received mostly low to moderate rainfall amounts during the last dekad (11th-20th) of May. A continuation of this drying trend is expected for the third dekad of May. Expect mostly relatively dry days and few relatively wet days. This weather pattern will bring long periods of hot, dry weather areas across Trinidad and

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Tobago, where few waterlogged fields and crops canopy will continue to dry out and may return to dry season growth rate. Lengthy sunny spells, moderate winds and low to moderate rainfall amounts in this third dekad of May, will sustain moderate to high average evaporation and average evapotranspiration rates overall.

There is a moderate probability (70%) of heat stress in young livestock, newly germinated and transplanted seedling on to fields. Warm to hot days with high feel like temperatures and infrequent periods of moist crop vegetation, will decrease the chances for fungi spread, but insect pests and warm weather diseases may develop in crop beds.

Weather Assessment for the period May (11th -19th) 2021.

During the second dekad of May 2021, low to moderate rainfall amounts fell in many areas of Trinidad and Tobago. In Trinidad day 17th and in Tobago day 14th were days that had some rainfall which assisted agriculture. On others days, relative dry conditions predominated over both islands.

The rainfall totals maps for the period 11th to 19th of May for Trinidad and Tobago are located below as figure 1 and figure 2.

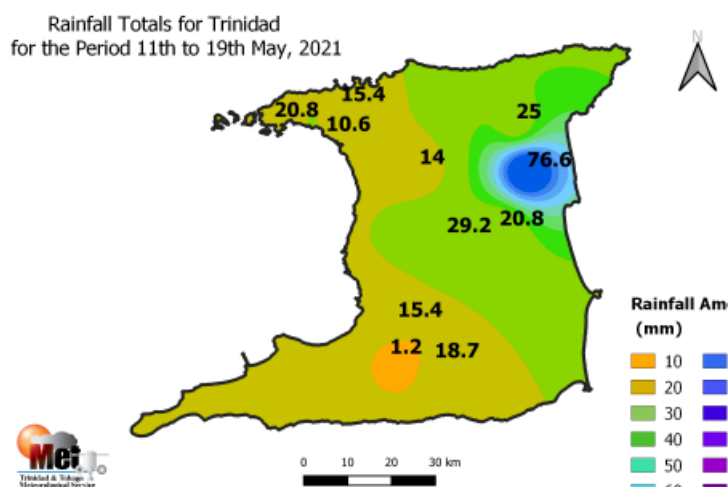


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 11th to 19th of May 2021.

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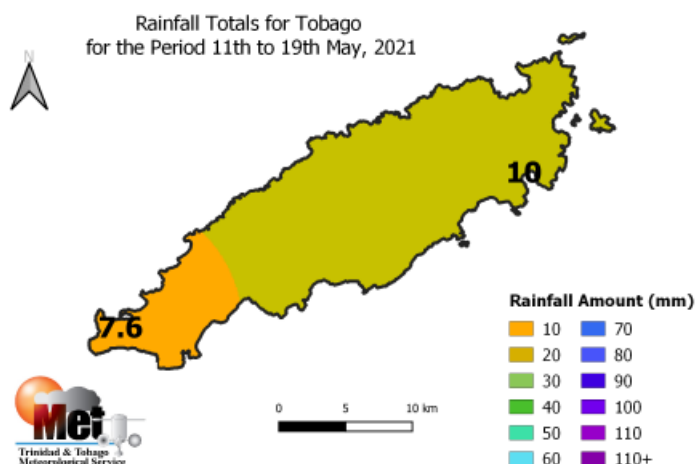


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 11th to 19th of May 2021.

Temperatures:

Temperatures remained warm during the period as maximum daytime temperatures ranged between 30.6 °C and 32.3 °C, in Trinidad.

In Tobago, temperatures were warm, with maximum daytime temperatures ranging between 30.2 °C and 31.9 °C.

Summary

Sufficient Rainfall amounts are expected on three of the eleven days. Rainfall amounts ranging between 1.0 mm to 8.0 mm, are expected mainly on the 23rd, 28th and 29th, with possible higher amounts in north-eastern, eastern, south-eastern and south-western parts of Trinidad and most areas of Tobago. However, relatively dry days with little to no rainfall are expected mainly on the 21st, 22nd, 24th, 25th, 26th, 27th, 30th and 31st of May 2021. Trinidad: Partly cloudy to cloudy spells are expected on days 23rd, 28th and 29th will likely bring light to occasionally moderate rainfall across farmlands in the north-eastern, eastern, south-eastern and south-western areas of Trinidad. The daily rainfall totals are forecasted to be between 1.0 mm and 8.0 mm across different farmlands, with eleven-day rainfall totals ranging between 20.0 mm and 45.0 mm. The heaviest and long-lasting rains are expected over farmlands in the northeast areas of Sangre Grande, Fishing Pond, Plum Mitán and Vega De Oropouche; eastern areas of Biche and near Mayaro, Moruga and Point Fortin in the southeast/south-west. Otherwise, on days 21st, 22nd, 24th, 25th, 26th, 27th, 30th and 31st expect mostly warm to hot and sunny and at times partly cloudy conditions will dominate the days. Tobago: Similar to Trinidad, mostly relatively dry to dry weather is expected, farmers should expect three days of light to moderate rainfall amounts particularly on the 23rd, 28th and 29th. The daily rainfall totals are forecasted to be between 1.0 mm and 5.0 mm across different farmlands. The eleven-day rainfall totals are expected to be around 20.0 mm across the island. However, expect largely drier conditions with long sunny spells, warm to very warm weather

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during days 21st, 22nd, 24th, 25th, 26th, 27th, 30th and 31st. Temperatures & Winds: Maximum temperatures are expected to remain warm (31.5oC) to very warm (32.5oC) throughout most of the period, but are likely to become hot 33.5oC on the 27th. However, temperatures are expected to have a real-feel or feels-like between 35.0oC to 40.0oC on most days. Mostly moderate easterly winds of average speed of 20 km/h are expected, with gust ranging between 22 km/h to 30 km/h at times. Low to moderate rainfall totals, moderate winds, warm to hot days and warm to hot feels-like temperatures will sustain average evapo-transpiration rates in crops ranging between 4.0 to 11.0 millimeters per day. Crop irrigation should be done when necessary, particularly on hot dry and windy days. Livestock should be provided with fresh cool water particularly on hot dry days to rehydrate. Moisture levels: Over the eleven day period across Trinidad and Tobago moisture levels are expected to be low to moderate, with average daytime relative humidity values in low 50s to low 60s, in terms of percentage. While during possible rainy days of the 23rd, 28th and 29th average daytime relative humidity values will be in the high 60s to low 80s, in terms of percentage.

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