

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st - 30th) of April, 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











10-day Weather Forecast for Farming, April (21st - 30th) 2021

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

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Issue date: 2021-04-20

21 st	 Sunny		Few cloudy patches	 Max Temp 33.0°C	Feels like 36-40°C	50-58%	Moderate easterly 20 km/h Gust 24 km/h
22 nd	 Sunny		Few cloudy patches	Hot  Max Temp 33.0°C	Feels like 34-40°C	50-59%	☄ Moderate easterly 20 km/h Gust 24 km/h
23 rd	 60% chance isolated showers	0.0 to 6.0 mm rainfall possible	Partly cloudy few showers	Warm  Max Temp 32.0°C	Feels like 34-38°C	50-62%	☄ Moderate easterly 20 km/h Gust 24 km/h
24 th	 Sunny		Few cloudy patches	Hot  Max Temp 33.0°C	Feels like 35-40°C	50-58%	☄ Moderate easterly 20 km/h Gust 24 km/h
25 th	 Sunny		Few cloudy patches	Hot  Max Temp 33.0°C	Feels like 35-40°C	49-55%	☄ Moderate north- easterly 20 km/h Gust 24 km/h




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26 th	 45% chance showers		Few cloudy patches	Hot  Max Temp 33.0°C	Feels like 35-40°C	40-58%	 Weak south- easterly 12 km/h Gust 20 km/h
27 th	 65% chance moderate showers	0.0 to 6.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with moderate showers	Very Warm  Max Temp 31.5°C	Feels like 34-38°C	40-65%	 Moderate easterly 18 km/h Gust 28 km/h
28 th	 65% chance moderate showers	0.0 to 6.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with moderate showers	Warm  Max Temp 31.0°C	Feels like 35-38°C	52-62%	 Weak south- easterly at 12 km/h Gust 20 km/h
29 th	 65% chance moderate	0.0 to 6.0 mm rainfall with higher amounts in	Partly cloudy with moderate	Warm 	Feels like		 Weak south- easterly at

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	showers	the east coast of Trinidad	showers	Max Temp 31.8°C	33-38°C	55-65%	12 km/h Gust 20 km/h
30 th	 45% chance of showers	0.0 to 2.0 mm rainfall	Few cloudy patches Moderate chance of a shower	Very Warm  Max Temp 32.5°C	Feels like 35-40°C	50-60%	 Weak south-easterly at 12 km/h Gust 20 km/h

Trinidad Rainfall
Forecast for the Third
10 Days of April (21st–

30th) 2021

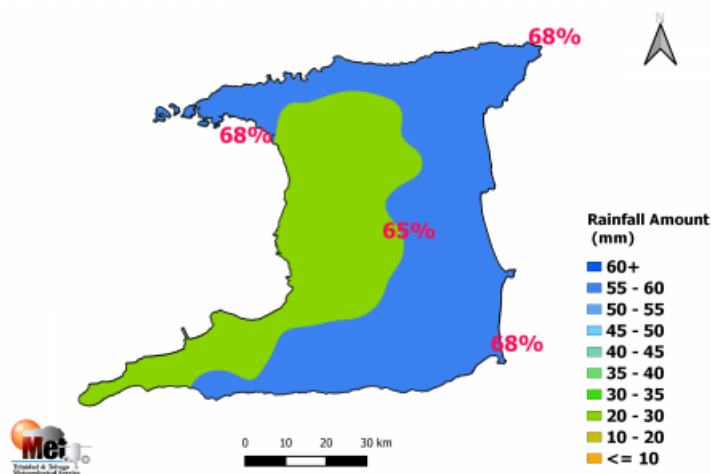


Figure 1. Rainfall Map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the third ten (10) days of April 2021 and percentage probability of occurrence.

Eastern and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 5.7 mm.

South-Eastern areas

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Moderate chance (68%) of mean daily rainfall up to 6.0 mm.

Southern areas

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

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 4.1 mm.

Northern, North-Western areas

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

Central, West-Central and inland areas

Moderate chance (65%) of mean daily rainfall up to 3.5 mm.

Tobago Rainfall Forecast for the Third 10 Days of April (21st – 30th) 2021

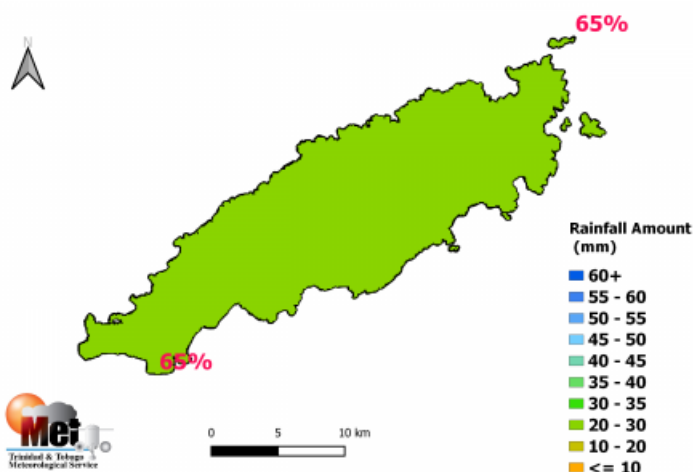


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Trinidad during the third ten (10) days of April 2021 and percentage probability of occurrence

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 2.5 mm.

South-Western areas

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Moderate chance (65 %) of mean daily rainfall up to 2.5 mm.

Sun and Moon Positions in the Sky April 21st to 30th 2021

The sun is presently at the latitude 11.5 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from April 21st to April 30th will be 12 hours 24 minutes.

According to the moon phases, days 21st, 22nd, 23rd are good for removing weeds and other plant pest from fields, while on the 24th to 25th are good days for planting seedlings and above ground crops. The 26th (full moon day), 27th and 30th are good days for planting below ground crops. While poor planting or cultivating days will be on the 28th and 29th.

Highlighted Possible Impact

Farmlands in Trinidad and Tobago have received small to sufficient amounts of rainfall during the last dekad (11th-20th), particularly on 11 April followed by long dry period afterwards. During the third dekad, alternating relatively dry and relatively wet days are expected, and will continue to benefit farming in areas across Trinidad and Tobago. However, interchanging days of lengthy sunny spells, weak to moderate winds and partly cloudy spells with showers in this third dekad, average evaporation and average evapotranspiration rates on the whole will not be affected significantly. Heighten heat stress is possibly due to high feel like temperatures at time, especially so in young livestock, newly germinated and transplanted seedling on to fields. With warm to hot temperatures at this time and occasional moist vegetation, there are increased chances for fungi spread, insect pests and warm weather diseases to develop in crop beds. Given the forecast conditions, farmers should aim to keep moisture in crop root areas for a longer time after rainy periods and wetting, by covering crops root areas with grass (mulching).

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

During the second dekad of April 2021, very little rain fell to support farming processes. In Trinidad days 11th and 19th while days 11th and 13th in Tobago, were the only days that had useful rainfall, which assisted agriculture. Followed by several dry days in Trinidad and Tobago. The rainfall totals for the period 11th to 19th April for Trinidad and Tobago is located below as figure 1 and figure 2.

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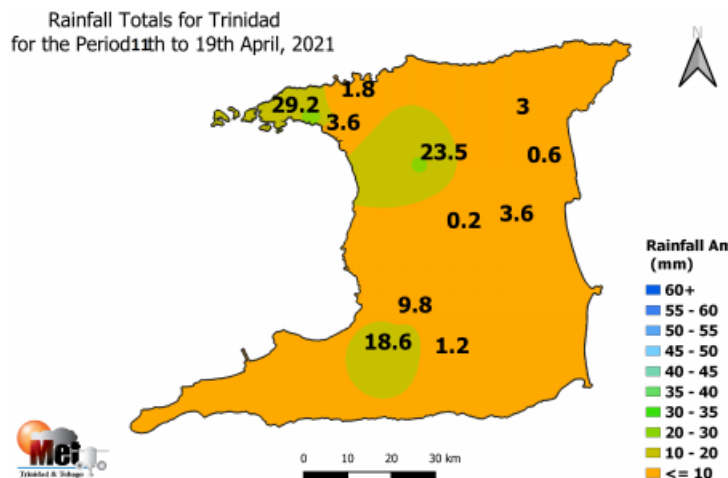


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 11th to 19th of April 2021.

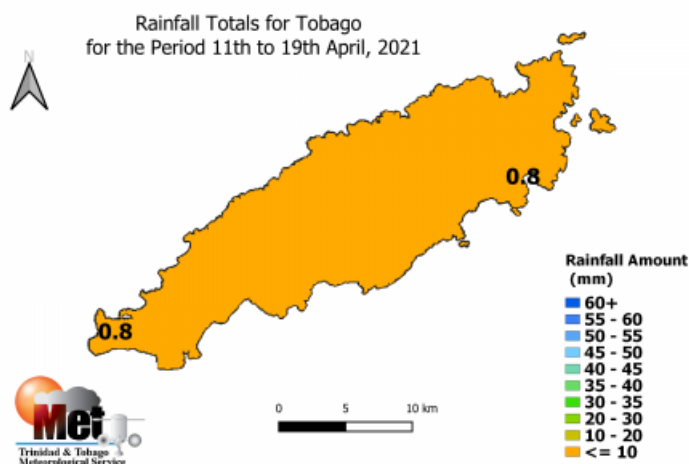


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 11th to 19th of April 2021.

Summary

Summary of Expected Weather: Ample Rainfall amounts are expected on five of the ten days. Rainfall amounts ranging between 1.0 mm to 6.0 mm, are expected mainly on the 23rd, 26th, 27th, 28th and 29th and with and higher amounts on days 27th and 28th, particularly in north-eastern, eastern and south-eastern parts of Trinidad and along hilly areas of

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Tobago. However dry days with very little to no rainfall are expected mainly on the 21st, 22nd, 24th, 25th and 30th. Farmers are encourage to harvest water when feasible on these days to mitigate against the dry days. Trinidad: Mix weather is expected for the ten day period, partly cloudy spells on the 23rd, 26th, 27th, 28th and 29th will likely bring light to occasionally moderate rainfall across farmlands in the south-eastern, eastern and north-eastern areas of Trinidad. Where rainfall totals are forecasted to be between 1.0 mm and 6.0 mm across different farmlands. The heaviest and most persistent rains are expected over farmlands in the northeast areas of Sangre Grande, Fishing pond, Plum Mitan and Vega De Oropouche; eastern areas of Biche and near Mayaro and Moruga in the southeast/south. Otherwise, mostly hot and sunny, at times partly cloudy; but generally fine and dry with plenty of warm sunshine will dominate the other days. Tobago: Similar to Trinidad, mix weather is expected, farmers should expect three days of light to moderate rainfall amounts particularly on the 24th, 25th and 29th with ten-day rainfall totals likely to reach 25.0 mm across the island. However, expect largely dry conditions with mostly sunny spells, fine and warm to very warm weather during days 21st, 22nd, 23rd, 26th, 27th, 28th, 30th. Temperatures & Winds: Maximum temperatures are expected to remain warm (31.0oC) to very warm (32.0oC) throughout most of the period, but are likely to become hot (32.5oC to 33.0oC) on the 21st, 22nd, 24th, 25th and 30th. However, temperatures are expected to have a real-feel or feels-like between 35.0oC to 40.0oC on most days, even with weak to moderate winds. Low rainfall totals, high temperatures, high feels-like values, low daytime humidity values, and mostly weak to moderate winds will sustain average evapo-transpiration rates in crops and increase drying and heat stress. This will increase the need to irrigate crops and provide fresh water to livestock. Over the ten day period across Trinidad and Tobago moisture levels are expected to be low with average daytime relative humidity values in low 40s to high 50s, in terms of percentage. While during possible rain days of 23rd, 26th, 27th, 28th, and 29th average daytime relative humidity values will be in the low 50s to high 60s, in terms of percentage. Wind speeds are expected to be weak to moderate with speeds between 10 km/h and 24 km/h and gusts up to 28 km/h at times.

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