

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st - 31st) of June, 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 15-Day period (21st – 5th) of June/July 2021

Date	Weather			Temperature	Heat Real Feel	Day Moisture (Relative) (Humidity)	Wind
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Issue date: 2021-06-21

21 st	 45% chance of light/moderate showers	0.0 to 1.0 mm of rainfall possible	Few cloudy patches with a shower or two	Hot  Max Temp 33.0°C	Feels like 38-42°C	55-65%	Moderate easterly 20 km/h Gust 30 km/h
22 nd	 70% chance of showers	1.0 to 25.0 mm of rainfall possible with higher amounts on the east coast of Trinidad	Mostly cloudy with light to moderate/heavy showers	Warm  Max Temp 31.5°C	Feels like 35-42°C	60-78%	 Weak easterly 14 km/h Gust 24km/h
23 rd	 45% chance of showers	0.1 to 3.0 mm of rainfall possible	Few cloudy patches with a shower or two	Hot  Max Temp 33.0°C	Feels like 38-42°C	55-65%	 Moderate easterly 20 km/h Gust 30 km/h
24 th	 45% chance of light/moderate showers	0.1 to 3.0 mm of rainfall possible	Few cloudy patches with a shower or two	Hot  Max Temp 33.0°C	Feels like 38-42°C	55-65%	 Moderate easterly 20 km/h Gust 30 km/h
25 th	 40% chance of light/moderate showers	0.1 to 1.0 mm of rainfall possible	Few cloudy patches with a shower or	Hot	Feels like		 Moderate easterly 20 km/h










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	showers		two		38-42°C	55-65%	Gust 30 km/h
26 th	 60% chance of light/moderate showers	0.1 to 5.0 mm of rainfall possible	Few cloudy patches with showers	Max Temp 33.0°C Very warm  Max Temp 32.5°C	Feels like 36-42°C	55-65%	Moderate easterly 20 km/h Gust 30 km/h
27 th	 70% chance of showers	1.0 to 20.0 mm of rainfall possible with higher amounts on the east coast of Trinidad/Tobago	Partly cloudy to cloudy with showers	Warm  Max Temp 32.0°C	Feels like 36-42°C	66-79%	Weak south- easterly 16 km/h Gust 26 km/h
28 th	 70% chance of light/moderate showers	1.0 to 30.0 mm of rainfall possible with higher amounts on the east coast of Trinidad/Tobago	Partly cloudy to cloudy with showers	Warm  Max Temp 32.0°C	Feels like 35-42°C	62-70%	Weak easterly 16 km/h Gust 26 km/h
29 th	 70% chance of light/moderate showers	1.0 to 20.0 mm of rainfall possible	Partly cloudy to cloudy with showers	Warm 	Feels like		Moderate easterly 16 km/h










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				Max Temp 32.0°C	35-42°C	62-75%	Gust 26 km/h
30 th	 80% chance of light/moderate showers	1.0 to 30.0 mm of rainfall with higher amounts on the east coast of Trinidad/Tobago	Cloudy with light to moderate/heavy showers	Warm  Max Temp 29.0°C	Feels like 32-38°C	75-85%	 Weak south-easterly 10 km/h Gust 20 km/h
1 st	 70% chance of light/moderate showers	1.0 to 25.0 mm of rainfall with higher amounts on the east coast of Trinidad	Mostly cloudy with light to moderate/heavy showers	Warm  Max Temp 31.0°C	Feels like 32-40°C	68-74%	 Weak south-easterly 14 km/h Gust 24 km/h
2 nd	 70% chance of light/moderate showers	1.0 to 20.0 mm of rainfall possible	Mostly cloudy with light to moderate/heavy showers	Warm  Max Temp 31.0°C	Feels like 34-40°C	60-65%	 Weak south-easterly 14 km/h Gust 24 km/h

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3 rd	 60% chance light/moderate showers	1.0 to 7.0 mm of rainfall possible	Few cloudy patches with showers	Warm  Max Temp 32.0°C	Feels like 35-40°C	62-70%	 Weak south- easterly 16 km/h Gust 26 km/h
4 th	 45% chance light/moderate showers	0.0 to 5.0 mm of rainfall possible	Few cloudy patches with a shower or two	Warm  Max Temp 32.5°C	Feels like 36-42°C	60-78%	 Moderate easterly 16 km/h Gust 26 km/h
5 th	 45% chance light/moderate showers	0.0 to 5.0 mm of rainfall possible	Few cloudy patches with a shower or two	Very warm  Max Temp 32.5°C	Feels like 36-42°C	60-70%	 Moderate easterly 16 km/h Gust 26 km/h

Trinidad Rainfall Forecast for the 15-Day period of June/July (21st – 5th) 2021

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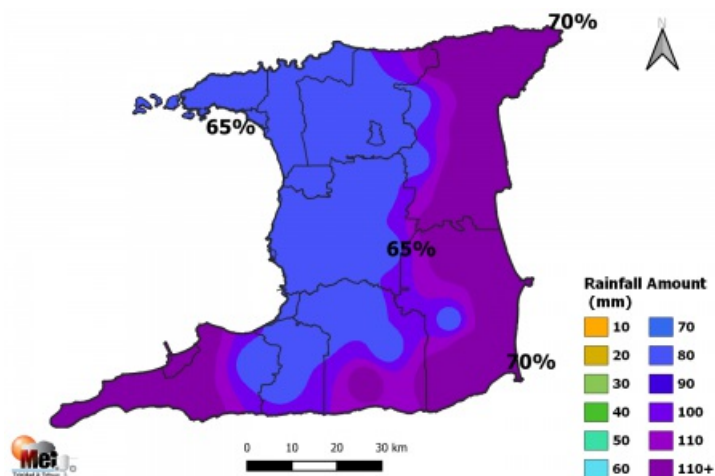


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (21st-5th) June/July 2021 and percentage probability of occurrence.

Eastern and North-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 12.0 mm.

South-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 12.6 mm.

Southern areas

Moderate chance (70%) of mean daily rainfall up to 11.0 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 11.8 mm.

Central, West-Central and inland areas

Moderate chance (65%) of mean daily rainfall up to 7.5 mm.

Northern, North-Western areas

Moderate chance (65%) of mean daily rainfall up to 7.5 mm.

Tobago Rainfall Forecast for the 15-Day period of June/July (21st – 5th) 2021

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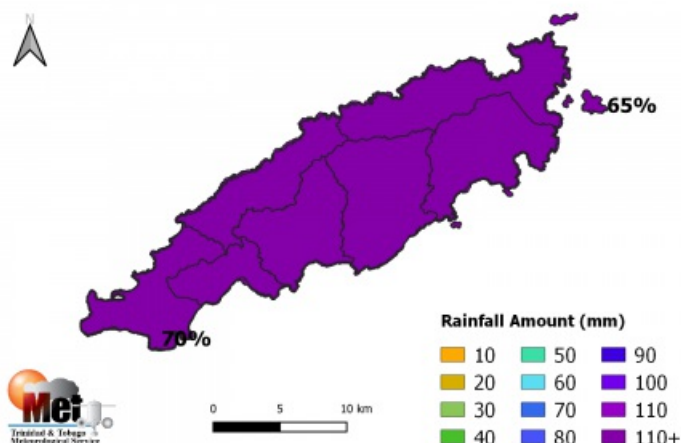


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Trinidad during the 15-day period (21st-5th) June/July 2021 and percentage probability of occurrence

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 14.0 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 13.0 mm.

Sun and Moon Positions in the Sky June/July 21st to 5th 2021

The sun is presently at the latitude 23.3 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from June 21st June to July 5th will be 12 hours 45 minutes. The northern hemisphere summer solstice will occur on the 21st and 22nd of June producing the two longest days of the year.

According to the moon phases, days 21st is a good day for planting above-ground crops, while 24th (Full Moon phase), 25th, and July 3rd and 4th are good days for planting below-ground crops. However, days 22nd, 23rd, 26th, 27th, and July 4th, 5th, 6th, 7th are poor planting days. Barren days are on the 30th, 1st, and 2nd be used for removing weeds and ploughing fields. Transplanting days will occur on the 28th, 29th, and July 3rd and 4th for all crop types.

Highlighted Possible Impacts on Agriculture:

Farmlands in Trinidad and Tobago had received moderate amounts of rainfall during the last dekad (11th-19th) of June. The mixed weather trend is expected to continue for this third 15-day period of June/July. Expect few relatively dry days, relatively wet days with clusters of wet days in the mix to occur during the period. The few sunny spells, light to moderate winds, and moderate to high rainfall amounts in this fifteen-day period of June, will sustain average evaporation and average evapotranspiration rates overall.

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There is a moderate probability (70%) of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. Warm to very warm days with high feel like temperatures and occasional periods of moist crop vegetation, will increase the chances for fungi spread, insect pests, and warm weather diseases to develop in crop beds.

Weather Assessment for the period June (1st -9th) 2021.

During the period (11th to 19th) of June 2021, moderate amounts of rain fell in many areas of Trinidad and Tobago. In Trinidad days 14th, 17th, and 18th, while in Tobago days 14th, 16th, 17th, and 18th, were the days that had moderate rainfall amounts. These rainfall days have given rise to adequate soil moisture and low to moderate river levels, which have assisted rain-fed agricultural lands and pastures. On others days, mostly relatively dry to dry conditions predominated over both islands. The rainfall totals maps for the period 11th to 19th of June for Trinidad and Tobago are located below as figure 1 and figure 2.

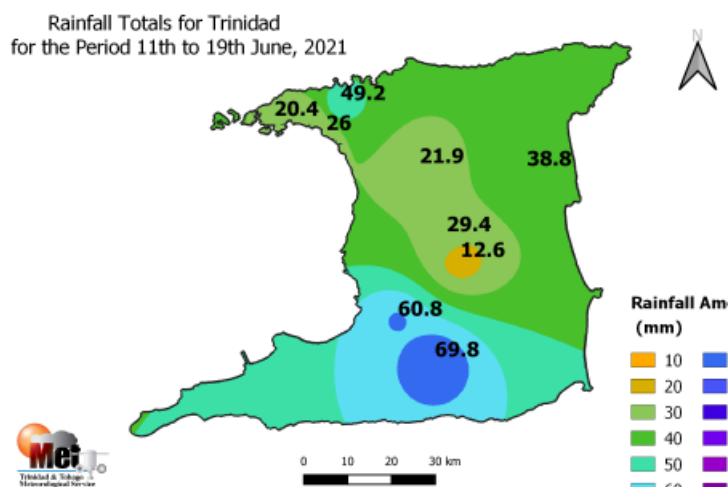


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 11th to 19th of June 2021.

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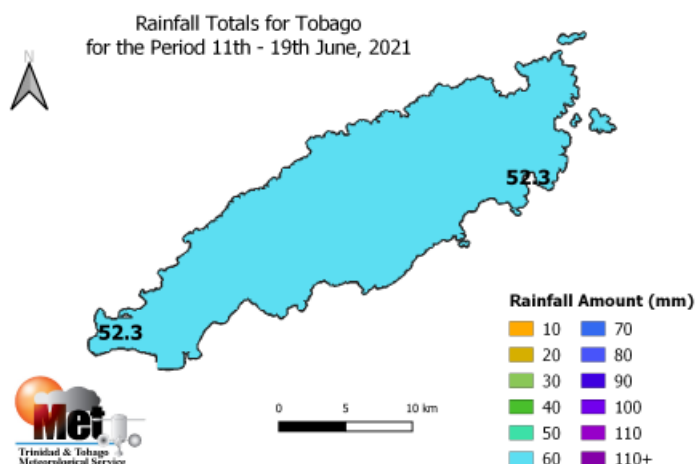


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 11th to 19th of June 2021.

Temperatures:

Temperatures remained warm during the period as maximum daytime temperatures ranged between 30.7 °C and 33.1 °C, in Trinidad.

In Tobago, temperatures were warm, with maximum daytime temperatures ranging between 30.5 °C and 31.7 °C.

Summary

Sufficient rainfall amounts are expected on seven of the fifteen days. A mixture of wet/dry weather is expected for the 15-day period 21st to 5th of June/July 2021. Wet days with rainfall amounts 10.0 mm or greater are expected mainly on the 22nd, 27th, 28th, 29th, 30th, 1st and 2nd, particularly in north-eastern, eastern, south-eastern, and southern parts of Trinidad and over most areas of Tobago. However, relatively wet days with rainfall amounts of 7.0 mm or less are expected mainly on the 21st, 23rd, 24th, 25th, 26th, 3rd, 4th, and 5th. Trinidad: Partly cloudy to cloudy spells are expected on days 22nd, 27th, 28th, 29th, 30th, 1st, and 2nd will likely bring light to occasionally moderate/heavy rainfall across farmlands in the north-eastern, eastern, south-eastern, and southern areas of Trinidad. Daily rainfall totals are forecasted to be between 1.0 mm and 30.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 75.0 mm and 125.0 mm. The heaviest and most 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 and Moruga in the southeast/south. Otherwise, on days 21st, 23rd, 24th, 25th, 26th, 3rd, 4th, and 5th, expect partly cloudy conditions with few showers. Tobago: Tobago will experience slightly wetter conditions as a whole as compared to Trinidad. The island will experience wet days and relatively wet days over the 15-day period. Farmers should expect seven days of light to moderate/heavy rainfall amounts particularly on the 22nd, 27th, 28th, 29th, 30th, 1st, and 2nd. The daily rainfall totals are forecasted to be between 1.0 mm and 30.0 mm across different farmlands. The fifteen-day rainfall totals ranging between 125.0 mm and 150.0 mm mostly across the island. However, on days

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21st, 23rd, 24th, 25th, 26th, 3rd, 4th, and 5th, expect partly cloudy conditions with few showers. Temperatures & Winds: Maximum temperatures are expected to remain warm (29.0oC) to very warm (32.5oC) throughout most of the period but can reach (33.0oC) on 21st, 23rd, 24th, 25th of June. However, temperatures are expected to have a real-feel or feels-like between 32.0oC to 42.0oC on most days. Moderate north-easterly to weak southeasterly winds of an average speed of 14 km/h are expected, with gust ranging between 20 km/h to 40 km/h at times. Moderate to high rainfall totals, moderate winds, warm to very warm days and sensible feels-like temperatures will sustain average evapo-transpiration rates in crops ranging between 1.0 to 8.0 millimeters per day. Crop irrigation should be done when necessary, particularly on hot drier days. Livestock should be provided with fresh cool water particularly on hot drier days to rehydrate. Moisture levels: Over the fifteen-day period across Trinidad and Tobago moisture levels are expected to be moderate to high, with average daytime relative humidity values in the low 50s to high 60s, in terms of percentage. While during possible rainy days of 22nd, 27th, 28th, 29th, 30th, 1st, and 2nd average daytime relative humidity values will be in the high 60s to mid-80s, in terms of percentage.

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