

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st - 10th) 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

15-day Weather Forecast for Farming, June (1st - 15th) 2021.













Weather Forecast/Bulletin for Farmers and Livestock Producers of Trinidad and Tobago for the 15-Day period (1st - 15th) of June 2021.

Date	Weather	Temperature	Heat Real	Day Moisture	Wind
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Issue date: 2021-06-02

					Feel	(Relative) (Humidity)	
1 st	 45% chance light/moderate showers	1.0 to 3.0 mm rainfall	Few cloudy patches with a shower or two	Warm  Max Temp 32.0°C	Feels like 36-40°C	63-69%	 Weak south- easterly 12 km/h Gust 24 km/h
2 nd	 60% chance showers	0.0 to 5.0 mm rainfall possible	Partly cloudy with light to moderate showers	Very warm  Max Temp 32.5°C	Feels like 36-40°C	51-58%	 Weak south- easterly 16 km/h Gust 26 km/h
3 rd	 45% chance showers	0.0 to 5.0 mm rainfall possible	Few cloudy patches with a shower or two	Very warm  Max Temp 32.0°C	Feels like 39-42°C	67-75%	 Weak south- easterly 16 km/h Gust 26 km/h
4 th	 80% chance	1.0 to 25.0 mm rainfall with higher amounts in the east	Mostly cloudy with light to moderate/heavy	Warm 	Feels like		 Weak south- easterly 16 km/h













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	light/moderate showers	coast of Trinidad	showers	Max Temp 30.0°C	32-42°C	71-92%	Gust 26 km/h
5 th	 70% chance light/moderate showers	1.0 to 20.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with light to moderate showers	Warm  Max Temp 31.0°C	Feels like 35-45°C	80-91%	 Weak easterly 20 km/h Gust 30 km/h
6 th	 70% chance light/moderate showers	0.0 to 15.0 mm rainfall with higher amounts in the east coast of Trinidad	Partly cloudy with light to moderate showers	Warm  Max Temp 31.0°C	Feels like 35-45°C	85-91%	 Moderate easterly 30 km/h Gust 40 km/h
7 th	 65% chance showers	0.0 to 10.0 mm rainfall possible	Partly cloudy with light to moderate showers	Warm  Max Temp 31.0°C	Feels like 37-45°C	73-89%	 Moderate easterly 30 km/h Gust 40 km/h
8 th	 80% chance light/moderate showers	1.0 to 25.0 mm rainfall with higher amounts in the east	Mostly cloudy with light to moderate/heavy showers	Warm  Max Temp	Feels like		 Weak south- easterly 16 km/h










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		coast of Trinidad		30.0°C	32-42°C	67-93%	Gust 26 km/h
9 th	 60% chance showers	0.0 to 3.0 mm rainfall possible	Few cloudy patches with a shower or two	Very warm  Max Temp 32.0°C	Feels like 39-44°C	65-79%	 Moderate easterly 20 km/h Gust 30 km/h
10 th	 45% chance light/moderate showers	1.0 to 5.0 mm rainfall	Few cloudy patches with a shower or two	Warm  Max Temp 31.0°C	Feels like 36-39°C	65-73%	 Moderate easterly 30 km/h Gust 40 km/h
11 th	 45% chance light/moderate showers	0.0 to 2.0 mm rainfall possible	Few cloudy patches with a shower or two	Warm  Max Temp 32.5°C	Feels like 36-39°C	62-71%	 Weak south- easterly 12 km/h Gust 24 km/h
12 th	 45% chance light/moderate	0.0 to 2.0 mm rainfall possible	Few cloudy patches with a shower or	Warm 	Feels like	62-71%	 Moderate easterly 30 km/h

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	showers		two	Max Temp 32.5°C	36-39°C		Gust 40 km/h
13 th	 45% chance light/moderate showers	0.0 to 2.0 mm rainfall possible	Few cloudy patches with a shower or two	Warm  Max Temp 32.8°C	Feels like 36-39°C	62-71%	 Moderate easterly 30 km/h Gust 40 km/h
14 th	 65% chance light/moderate showers	0.0 to 10.0 mm rainfall possible	Few cloudy patches with a shower or two	Warm  Max Temp 32.0°C	Feels like 36-39°C	62-71%	 Moderate easterly 20 km/h Gust 30 km/h
15 th	 45% chance light/moderate showers	0.0 to 2.0 mm rainfall possible	Few cloudy patches with a shower or two	Warm  Max Temp 32.8°C	Feels like 36-39°C	62-71%	 Moderate easterly 30 km/h Gust 40 km/h

Trinidad Rainfall Forecast for the First 15-Day period of June (1st – 15th) 2021

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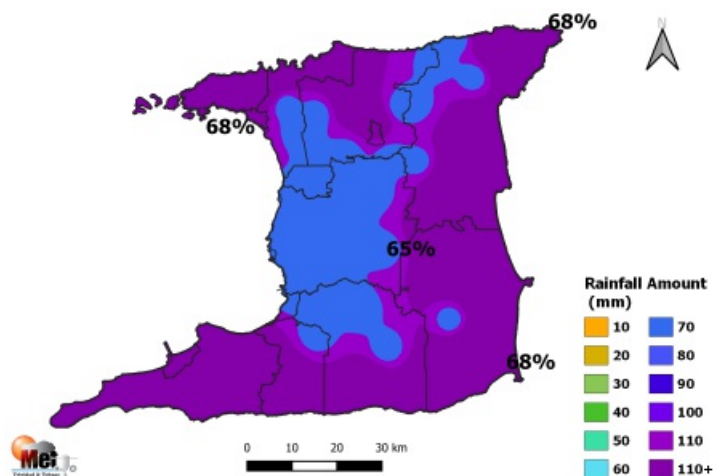


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the first 15-day period of June 2021 and percentage probability of occurrence.

Eastern and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 12.9 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 14.0 mm.

Southern areas

Moderate chance (68%) of mean daily rainfall up to 13.4 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 13.2 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 (68%) of mean daily rainfall up to 13.1 mm.

Tobago Rainfall Forecast for the 15-Day period of June (1st – 15th) 2021

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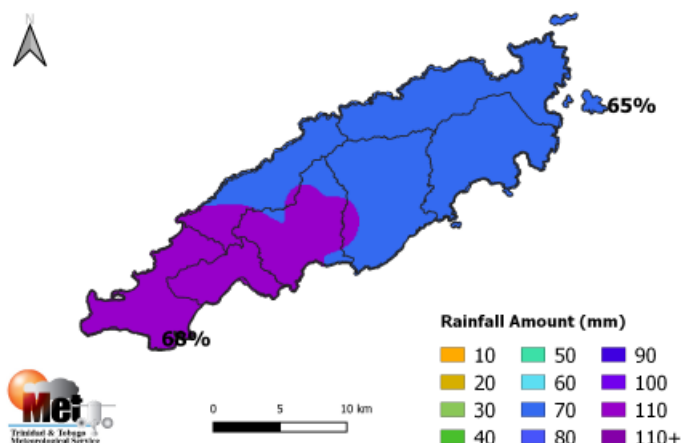


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Trinidad during the 15-day period of June 2021 and percentage probability of occurrence

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 8.1 mm.

South-Western areas

Moderate chance (68 %) of mean daily rainfall up to 9.3 mm.

Sun and Moon Positions in the Sky June 1st to 15th 2021

The sun is presently at the latitude 21.6 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from June 1th to June 15th will be 12 hours 36 minutes.

According to the moon phases, days 1st, 2nd (Third Quarter phase), 6th and 7th are good days for transplanting and planting ground crops, while 11th and 12th are good days for planting above ground crops. However, poor planting or cultivating days are on the 8th, 9th, 10th (New Moon phase) and 13th of June 2021. On days 3rd, 4th, 5th, 13th, 14th and 15th are good days for removing weeds and ploughing fields.

Highlighted Possible Impacts on Agriculture:

Farmlands in Trinidad and Tobago had received small amounts of rainfall during the last dekad (21st-31st). However, the rainy season has started and a mix weather trend is expected for this first 15-day period of June. Expect alternating relatively dry days and relatively wet days with few wet days in the mix to occur during the period. The few short sunny spells, light to moderate winds and moderate to high rainfall amounts in this first fifteen-day period of June, will sustain average evaporation and average evapotranspiration rates overall.

There is a moderate probability (68%) of heat stress in young livestock, newly germinated and transplanted seedling on to

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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 May (21st -30th) 2021.

During the last dekad of May 2021, small amounts of rain fell in many areas of Trinidad and Tobago. In Trinidad days 22nd, 23rd and 27th, while in Tobago days 23rd, 27th and 30th, were the days that had sufficient rainfall amounts, which assisted agriculture in replenishing soil moisture. On others days, mostly relatively dry to dry conditions predominated over both islands. The rainfall totals maps for the period 21st to 30th of May for Trinidad and Tobago are located below as figure 1 and figure 2.

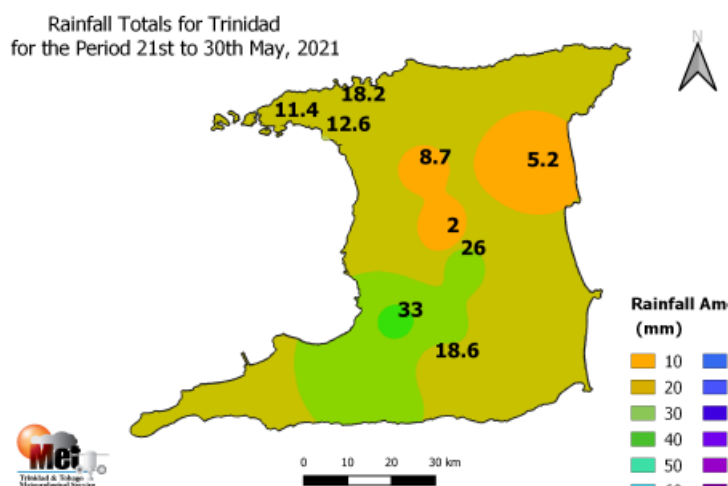
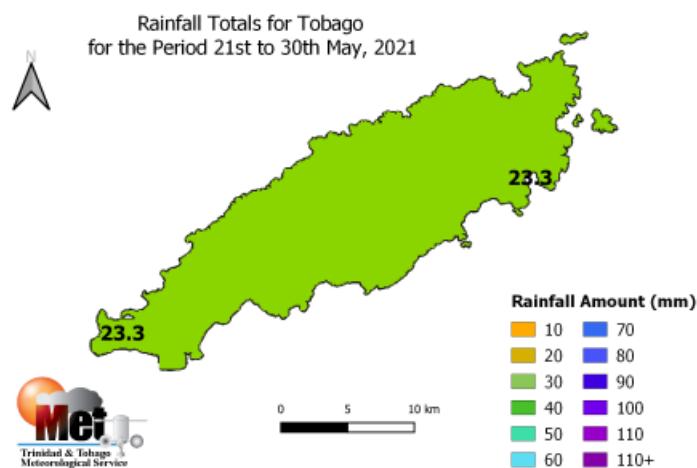


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 21st to 30th of May 2021.



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Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 21st to 30th of May 2021.

Temperatures:

Temperatures remained warm during the period as maximum daytime temperatures ranged between 30.5 °C and 32.2 °C, in Trinidad.

In Tobago, temperatures were warm, with maximum daytime temperatures ranging between 30.6 °C and 32.6 °C.

Summary

Sufficient rainfall amounts are expected on six of the fifteen days. Mix weather is expected for the first 15-day period of June 2021. Wet days with rainfall amounts 10.0 mm or greater are expected mainly on the 4th, 5th, 6th, 7th, 8th and 14th, particularly in north-eastern, eastern, south-eastern and southern parts of Trinidad and along south-western areas of Tobago. However, relatively wet days with rainfall amounts 5.0 mm or less are expected mainly on the 1st, 2nd, 3rd, 9th, 10th, 11th, 12th, 13th and 15th. Trinidad: Partly cloudy to cloudy spells are expected on days 4th, 5th, 6th, 7th, 8th and 14th 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 25.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 75.0 mm and 150.0 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 1st, 2nd, 3rd, 9th, 10th, 11th, 12th, 13th and 15th expect partly cloudy conditions with a shower or two. Tobago: Similar weather pattern to Trinidad, Tobago will experience few wet days and mostly relatively wet days over the 15-day period. Farmers should expect six days of light to moderate/heavy rainfall amounts particularly on the 4th, 5th, 6th, 7th, 8th and 14th. The daily rainfall totals are forecasted to be between 1.0 mm and 25.0 mm across different farmlands. The fifteen-day rainfall totals ranging between 75.0 mm and 100.0 mm mostly across the island. However, on days 1st, 2nd, 3rd, 9th, 10th, 11th, 12th, 13th and 15th expect partly cloudy conditions with a shower or two. Temperatures & Winds: Maximum temperatures are expected to remain warm (30.0oC) to very warm (32.5oC) throughout the period. However, temperatures are expected to have a real-feel or feels-like between 32.0oC to 40.0oC on most days. Moderate north-easterly to weak southeasterly winds of an average speed of 20 km/h are expected, with gust ranging between 24km/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 2.0 to 7.0 millimeters per day. Crop irrigation should be done when necessary, particularly on hot dry days. Livestock should be provided with fresh cool water particularly on hot dry 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 4th, 5th, 6th, 7th, 8th, and 14th average daytime relative humidity values will be in the high 60s to low 90s, in terms of percentage.

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