

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st - 30th) of June, 2022

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 2022.

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














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21 st	 70% chance of showers	10.0 to 15.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.0/22.2	Feels like 33-38°C	74-82%	☀☀☀ Weak easterly 10 km/h Gust 15 km/h
22 nd	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 30.0/22.5	Feels like 34-40°C	77-86%	☀☀☀ Weak south-easterly 15 km/h Gust 25 km/h
23 rd	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 30.0/22.5	Feels like 34-40°C	77-86%	☀☀☀ Weak easterly 10 km/h Gust 15 km/h
24 th	 80% chance of showers	10.0 to 25.0 mm of rainfall is possible	Cloudy with light/mod occasional heavy showers	Warm  Max/Min Temperatures °C 30.0/23.0	Feels like 31-36°C	71-78%	☀☀☀ Weak easterly 10 km/h Gust 15 km/h
25 th	 80% chance of rainfall	10.0 to 25.0 mm of rainfall	Cloudy with light/mod occasional heavy	Warm 	Feels like		☀☀☀ Weak easterly 10 km/h















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	of showers	is possible	showers	Max/Min Temperatures °C 30.5/23.0	33- 38°C	70-75%	Gust 15 km/h
26 th	 80% chance of showers	10.0 to 35.0 mm of rainfall is possible	Cloudy with light/mod occasional heavy showers	Warm  Max/Min Temperatures °C 30.0/23.5	Feels like 30- 36°C	76-89%	 Weak south- easterly 15 km/h Gust 25 km/h
27 th	 80% chance of showers	10.0 to 40.0 mm of rainfall is possible	Cloudy with light/mod occasional heavy showers	Warm  Max/Min Temperatures °C 29.0/23.0	Feels like 30- 36°C	82-88%	 Weak easterly 10 km/h Gust 15 km/h
28 th	 70% chance of showers	10.0 to 15.0 mm of rainfall is possible	Partly cloudy/cloudy with showers	Warm  Max/Min Temperatures °C 29.0/23.0	Feels like 31- 38°C	79-86%	 Weak easterly 10 km/h Gust 15 km/h
29 th	 60% chance of showers	1.0 to 8.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 30.0/23.5	Feels like 34- 37°C	85-91%	 Weak south- easterly 15 km/h Gust 25 km/h
				Warm			




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30 th	 45% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Max/Min Temperatures °C 31.0/23.0	Feels like 33-40°C	64-68%	Moderate easterly 20 km/h Gust 30 km/h
1 st	 45% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.5/23.0	Feels like 33-37°C	63-68%	 Moderate easterly 20 km/h Gust 30 km/h
2 nd	 45% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.5/23.5	Feels like 33-40°C	65-78%	 Weak south-easterly 15 km/h Gust 25 km/h
3 rd	 45% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.5/23.5	Feels like 33-40°C	60-67%	 Moderate easterly 20 km/h Gust 30 km/h
4 th	 35% chance	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.5/23.5	Feels like		 Moderate easterly 20 km/h

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	of showers	possible		Max/Min Temperatures °C 31.5/23.5	33- 38°C	58-64%	Gust 30 km/h
5 th	 45% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Warm  Max/Min Temperatures °C 31.5/23.5	Feels like 33- 38°C	66-71%	 Weak south- easterly 15 km/h Gust 25 km/h

Trinidad Rainfall Forecast for the 15-Day period of June/July (21st -5th) 2022.

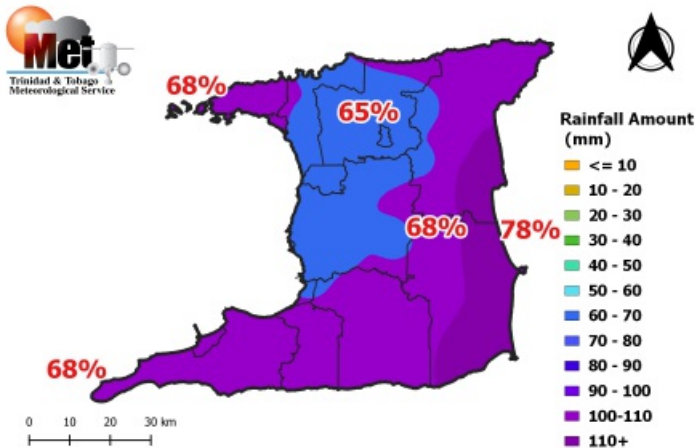


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day

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period (21st-5th) June/July 2022 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 12.1 mm.

South-Eastern areas

High chance (78%) of mean daily rainfall up to 15.0 mm.

Southern areas

Moderate chance (68%) of mean daily rainfall up to 12.8 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 12.1 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 7.0 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 9.7 mm.

Tobago Rainfall Forecast for the 15-Day period of June/July (21st -5th) 2022

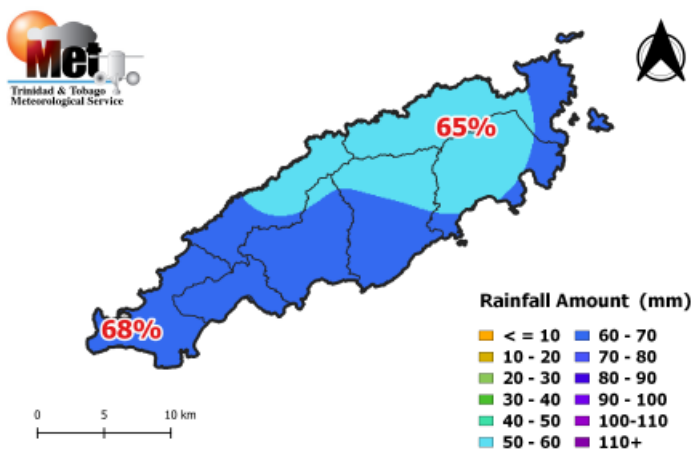


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (21st-5th) June/July 2022 and percentage probability of occurrence.

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North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 5.0 mm.

South-Western areas

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

Sun and Moon Positions in the Sky June/July (21st-5th) 2022.

The sun is presently at 23.4 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from June 21st will be 12 hours and 45 minutes, decreasing slightly to 12 hours and 44 minutes by 5th July 2022. According to the moon's phases, the 28th (New Moon Phase), 29th of June and 5th of July are good days for planting aboveground crops while the 23rd-24th of June are good days for planting belowground crops. However, the 21st-22nd, 25th-27th and 30th-4th of June/July 2022, are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

Highlighted Possible Impacts on Agriculture:

During this third 15-day forecast period of (21st to 5th) June/July 2022, expect similarly wet conditions to occur as compared to the second 15-day (11th to 25th) June forecast period. There is a low probability (28%) chance for crop irrigation measures to take place owing to moist soils during the forecast period. However, livestock should be provided with fresh cool water during this forecast period to rehydrate particularly during warmer and drier periods. On drier days, there is a moderate probability (45%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a high probability (80%) chance for fungi spread, root and/or fruit rot, insect pests and warm weather diseases to develop in crop beds. River levels will remain at generally low/moderate levels during this forecast period but will become high at times during the 21st, 24th- 28th of June.

Weather Assessment for the period June (11th-20th) 2022

Wet days occurred on the 12th-14th and 16th of June over Trinidad and Tobago. The moderate to high rainfall amounts that occurred across the islands allowed for moderate to high moisture content in soils, while some places may have experienced water-logged soils at times which eventually dried out. Crop growth and development rates in general across agricultural lands and vegetation growth in pastures had significantly increased while river levels varied accordingly. The rainfall totals maps for the period, 11th to 20th of June for Trinidad and Tobago are located below as figure 1 and figure 2.

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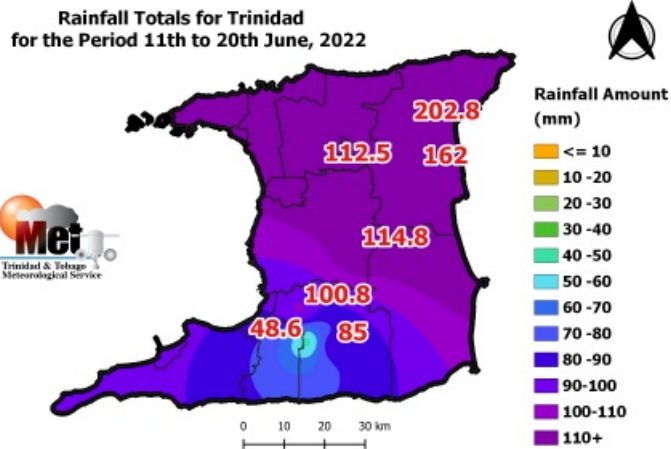


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 11th to 20th June 2022.

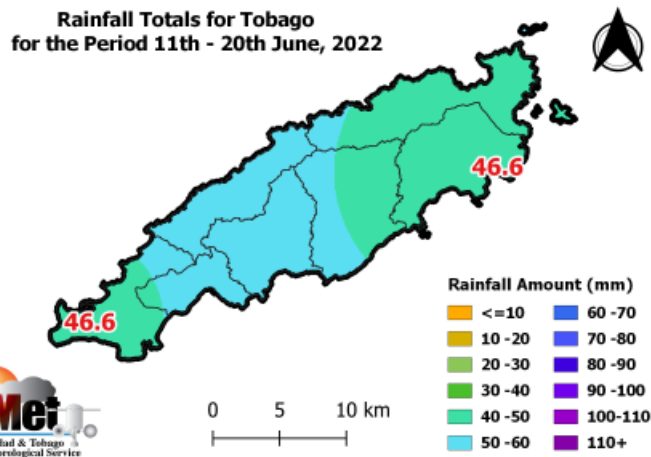


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 11th to 20th June 2022.

Temperatures:

Temperatures were cool to warm during the period 11th to 20th June, as the minimum nighttime temperature fell to 22.4 °C and the maximum daytime temperature rose to 31.7 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 11th to 20th June, with the minimum nighttime temperature fell to 22.9 °C and the maximum daytime temperature rose to 30.9 °C.

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Summary

Summary of Expected Weather:

Moderate to high rainfall amounts are expected on six of the fifteen days.

Six wet days with rainfall amounts ranging between 10.0 mm and 40.0 mm are expected on the 21st, 24th- 28th of June while, nine relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 22nd-23rd of June and the 29th-5th June/July 2022.

Trinidad:

Six wet days with rainfall amounts ranging between 10.0 mm and 40.0 mm are expected on the 21st, 24th- 28th of June while, nine relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 22nd-23rd of June and the 29th-5th June/July 2022. The daily rainfall totals are forecast to range between 1.0 mm to 40.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 70.0 mm and 150.0 mm. The impactful rainfall events will mostly occur across the northeastern, eastern, southeastern, southwestern and northwestern parts of Trinidad. There is a high (90%) probability that flash and riverine flooding will occur during/after heavy rainfall events.

Tobago:

Similar to Trinidad, Tobago will experience six wet days with rainfall amounts ranging between 10.0 mm and 40.0 mm are expected on the 21st, 24th- 28th of June while, nine relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 22nd-23rd of June and the 29th-5th June/July 2022. The daily rainfall totals are forecast to range between 1.0 mm to 40.0 mm across different farmlands particularly southwestern areas, with fifteen-day rainfall totals ranging between 50.0 mm and 70.0 mm.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 29.0°C to 31.5°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 31.0°C to 40.0°C on most days. The minimum temperatures will range between 22.2°C to 23.5°C during most nights/early mornings, dropping lower in rural areas and valleys.

Mostly weak easterly to south-easterly winds of an average speed of 10-20 km/h are expected, with gusts of 25-30 km/h at times. Moderate to high rainfall totals, mostly low wind speeds, warm days and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 1.4 to 8.0 millimeters per day.

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 lower-60s to lower-90s, in terms of percentage.

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