

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) 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 (11th – 25th) of June 2022.

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

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Issue date: 2022-06-10

11 th	 80% chance of showers	10.0 to 20.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 29.0/23.5	Feels like 31-36°C	87-91%	 Weak easterly 10 km/h Gust 15 km/h
12 th	 65% chance of showers	1.0 to 8.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 31.0/24.0	Feels like 33-38°C	66-78%	 Weak easterly 10 km/h Gust 15 km/h
13 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 31.0/23.5	Feels like 33-38°C	64-77%	 Weak south-easterly 15 km/h Gust 25 km/h
14 th	 65% chance of showers	1.0 to 8.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 31.5/23.0	Feels like 33-38°C	66-72%	 Weak south-easterly 20 km/h Gust 25 km/h
15 th	 80% chance of rainfall	10.0 to 25.0 mm of rainfall	Cloudy with light/mod occasional heavy	Warm  Max/Min Temperatures °C	Feels like		 Weak south-easterly 20 km/h















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	of showers	is possible	showers	Max/Min Temperatures °C 30.5/23.0	33- 38°C	70-76%	Gust 25 km/h
16 th	 65% chance of showers	1.0 to 8.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 30.0/24.0	Feels like 33- 38°C	81-85%	 Weak easterly 10 km/h Gust 15 km/h
17 th	 60% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 31.0/23.0	Feels like 35- 39°C	58-66%	 Moderate easterly 20 km/h Gust 30 km/h
18 th	 60% chance of showers	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 34- 37°C	52-64%	 Moderate easterly 20 km/h Gust 30 km/h
19 th	 60% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 34- 37°C	60-65%	 Weak easterly 10 km/h Gust 15 km/h
				Warm			




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20 th	 45% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Max/Min Temperatures °C 32.0/23.5	Feels like 35-40°C	64-71%	Moderate easterly 20 km/h Gust 30 km/h
21 st	 45% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 32.5/24.0	Feels like 35-40°C	54-62%	 Moderate easterly 20 km/h Gust 30 km/h
22 nd	 45% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	Warm  Max/Min Temperatures °C 32.5/24.0	Feels like 35-40°C	54-62%	 Moderate easterly 20 km/h Gust 30 km/h
23 rd	 65% chance of showers	1.0 to 8.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 30.0/24.0	Feels like 33-36°C	51-63%	 Moderate easterly 20 km/h Gust 30 km/h
24 th	 70% chance	10.0 to 15.0 mm of rainfall	Cloudy with light/mod occasional heavy	Warm 	Feels like		 Moderate easterly 20 km/h

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	of showers	is possible	showers	Max/Min Temperatures °C 30.0/23.0	33- 36°C	59-72%	Gust 30 km/h
25 th	 75% chance of showers	10.0 to 15.0 mm of rainfall is possible	Cloudy with showers	Warm  Max/Min Temperatures °C 31.0/23.0	Feels like 33- 36°C	59-72%	 Weak north- easterly 20 km/h Gust 25 km/h

Trinidad Rainfall Forecast for the 15-Day period of June (11th – 25th) 2022.

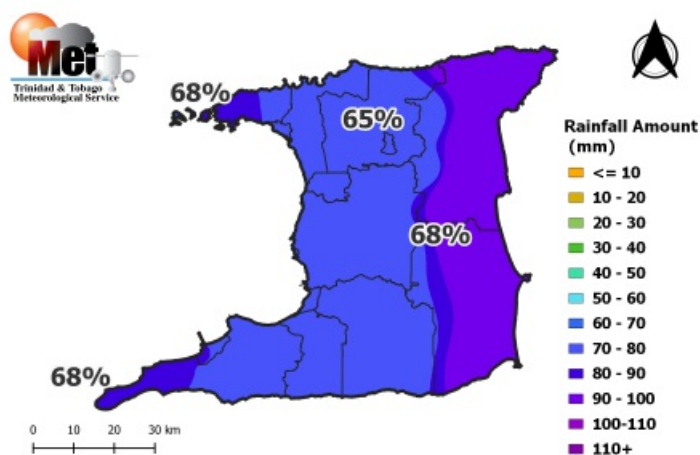


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (11th-25th) June 2022 and percentage probability of occurrence.

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Eastern, and North-Eastern areas

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

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

Southern areas

Moderate chance (65%) of mean daily rainfall up to 7.3 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 6.9 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 6.0 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 6.8 mm.

Tobago Rainfall Forecast for the 15-Day period of June (11th –25th) 2022

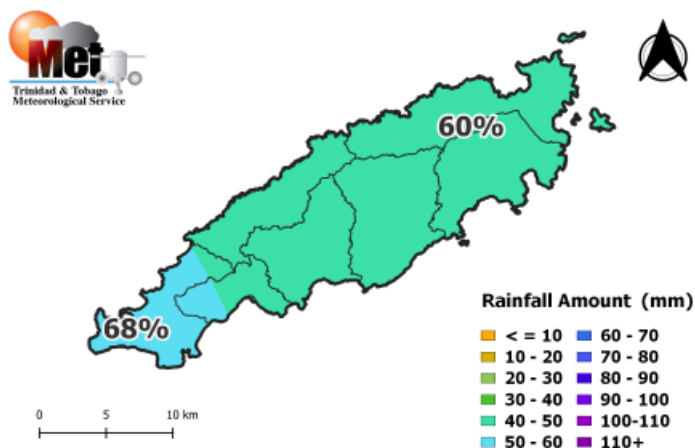


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (11th-25th) June 2022 and percentage probability of occurrence.

North-Eastern areas

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Moderate chance (65%) of mean daily rainfall up to 4.0 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 5.3 mm.

Sun and Moon Positions in the Sky June (11th-25th) 2022.

The sun is presently at 23.0 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from June 11th will be 12 hours and 44 minutes, increasing slowly to 12 hours and 45 minutes by 25th June 2022. According to the moon's phases the 11th and 18th-19th of June are good days for planting aboveground crops while, the 14th (Full Moon Phase) and 15th, and 18th-19th are good days for planting belowground crops. However, the 12th-13th, 16th-17th, and 20th (Third Quarter Phase), 21st and 22nd of June 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 second 15-day forecast period of (11th to 25th) June 2022, expect slightly less wet conditions to occur as compared to the first 15-day (1st to 15th) June forecast period. There is a moderate probability (55%) chance for crop irrigation measures to take place owing to drier days during the second half of the forecast period. However, livestock should be provided with fresh cool water during this forecast period to rehydrate particularly on warmer and drier days. On drier days, there is a moderate probability (65%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a moderate probability (68%) 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 low/moderate levels during this forecast period but will become high at times during the 11th, 13th, 15th, 24th and 25th of June.

Weather Assessment for the period June (1st-9th) 2022

Wet days occurred on the 2nd-7th 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, 1st to 9th of June for Trinidad and Tobago are located below as figure 1 and figure 2.

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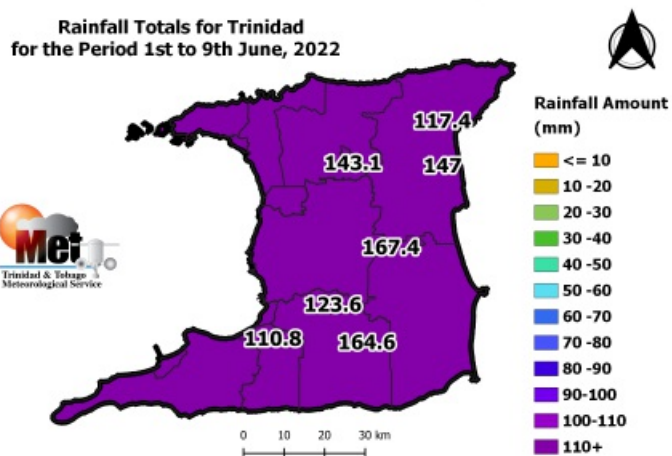


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 9th June 2022.

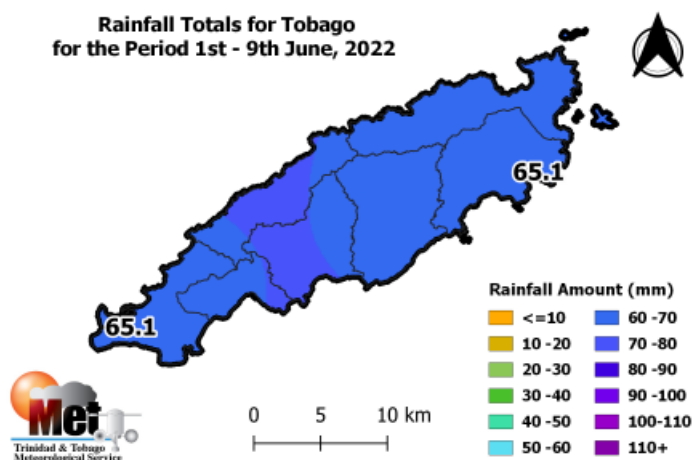


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 9th June 2022.

Temperatures:

Temperatures were cool to warm during the period 1st to 9th June, as the minimum nighttime temperature fell to 22.5 °C and the maximum daytime temperature rose to 33.3 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1st to 9th June, with the minimum nighttime temperature fell to 23.3 °C and the maximum daytime temperature rose to 31.8 °C.

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Summary

Summary of Expected Weather:

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

Five wet days with rainfall amounts ranging between 10.0 mm and 25.0 mm are expected on the 11th, 13th, 15th, 24th and 25th of June while, ten relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 12th, 14th, 16th-23rd of June 2022.

Trinidad:

Five wet days with rainfall amounts ranging between 10.0 mm and 25.0 mm are expected on the 11th, 13th, 15th, 24th and 25th of June while, ten relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 12th, 14th, 16th-23rd of June 2022. The daily rainfall totals are forecast to range between 1.0 mm to 25.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 60.0 mm and 100.0 mm. The impactful rainfall events will mostly occur across the northeastern, eastern, southeastern, southwestern and northwestern parts of Trinidad. There is a high (70%) probability that flash and riverine flooding will occur during/after heavy rainfall events.

Tobago:

Similar to Trinidad, Tobago will experience five wet days with rainfall amounts ranging between 10.0 mm and 25.0 mm are expected on the 11th, 13th, 15th, 24th and 25th of June while, ten relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 12th, 14th, 16th-23rd of June 2022. The daily rainfall totals are forecast to range between 1.0 mm to 25.0 mm across different farmlands particularly southwestern areas, with fifteen-day rainfall totals ranging between 40.0 mm and 60.0 mm.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 29.0°C to 32.5°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 31.0°C to 42.0°C on most days. The minimum temperatures will range between 23.0°C to 24.5°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 evapo-transpiration rates in crops ranging between 2.0 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-50s to lower-90s, in terms of percentage.

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