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F750.04.05

Page 1 of 10

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) of May, 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 Rainfa	I	Rainfall below 50% of the average				
Much Above Normal Rainfa	II	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 May 2022.

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

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F750.04.05

Page 2 of 10

11 th	10% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower	Max/Min Temperatures °C 32.5/22.6	Feels like 33- 38°C	40-60%	Moderate easterly 25 km/h Gust 35 km/h
12 th	10% chance of a shower		Patchy cloudy skies with a light shower	Warm Max/Min Temperatures °C 32.5/22.6	Feels like 34- 37°C	51-59%	Moderate easterly 25 km/h Gust 35 km/h
13 th	20% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower	Warm Max/Min Temperatures °C 32.0/23.0	Feels like 35- 38°C	53-64%	Moderate easterly 20 km/h Gust 35 km/h
14 th	30% chance of a shower		Patchy cloudy skies with a light shower	Max/Min Temperatures °C 32.0/23.0	Feels like 35- 37°C	54-57%	Moderate easterly 20 km/h Gust 30 km/h
15 th	65% chance	1.0 to 8.0 mm of rainfall is	Partly cloudy with few showers	Warm Disclaimer	Feels like		Moderate easterly 20 km/h



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F750.04.05

Page 3 of 10

	of showers	possible		Max/Min Temperatures °C 32.0/23.0	36- 39°C	57-65%	Gust 30 km/h
16 th	70% chance of showers	10.0 to 15.0 mm of rainfall is possible		Warm Max/Min Temperatures °C 31.0/23.5	Feels like 33- 38°C	74-77%	Moderate south- easterly 20 km/h Gust 30 km/h
17 th	65% chance of showers		Partly cloudy with showers		Feels like 34- 38°C	56-69%	Moderate south- 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		Feels like 34- 38°C	57-70%	Moderate easterly 20 km/h Gust 30 km/h
19 th	20% chance of a shower	Less than 1.0 mm of rainfall is possible	cloudy skies with a light shower	Very warm Max/Min Temperatures °C 33.0/24.0	Feels like 35- 39°C	47-59%	Moderate easterly 25 km/h Gust 35 km/h

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F750.04.05

Page 4 of 10

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20 th	10% chance of a shower	Less than 1.0 mm of rainfall is possible	cloudy skies	Very warm Max/Min Temperatures °C 33.0/24.0	Feels like 37- 41°C	46-57%	Moderate easterly 20 km/h Gust 30 km/h
21 st	10% chance of a shower	Less than 1.0 mm of rainfall is possible	cloudy skies	Very warm Max/Min Temperatures °C 33.0/24.0	Feels like 36- 40°C	48-60%	Moderate easterly 20 km/h Gust 35 km/h
22 nd	10% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower	Very warm Max/Min Temperatures °C 33.0/24.0	Feels like 35- 39°C	46-58%	Moderate easterly 20 km/h Gust 35 km/h
23 rd	60% chance of showers	mm of	Partly cloudy with one or two showers		Feels like 37- 40°C	50-63%	Moderate easterly 20 km/h Gust 30 km/h
24 th	60% chance	mm of	Partly cloudy with one or	Warm	Feels		Moderate easterly

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F750.04.05

Page 5 of 10

	of showers	rainfall is possible	two showers	Max/Min	like 37- 40°C	61-70%	20 km/h Gust 30 km/h
25 th	60% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or	Temperatures °C	Feels like 37- 40°C	61-70%	Moderate easterly 20 km/h Gust 30 km/h

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

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F750.04.05

Page 6 of 10

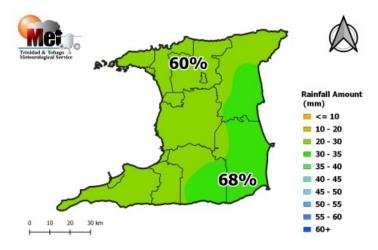


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (11th-25th) May 2022 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (60%) of mean daily rainfall up to 2.5 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 3.0 mm.

Southern areas

Moderate chance (68%) of mean daily rainfall up to 2.2 mm.

South-Western areas

Moderate chance (60%) of mean daily rainfall up to 2.0 mm.

Central, West-Central, and inland areas

Moderate chance (60%) of mean daily rainfall up to 2.0 mm.

Northern, North-Western areas

Moderate chance (60%) of mean daily rainfall up to 2.0 mm.

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

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F750.04.05

Page 7 of 10

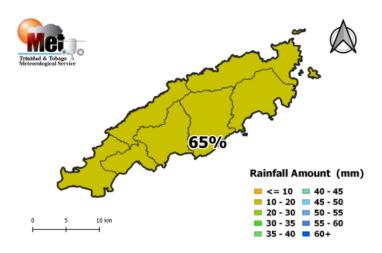


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (11th-25th) May 2022 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

South-Western areas

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

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

The sun is presently at 17.5 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from May 11 th will be 12 hours and 35 minutes, increasing slowly to 12 hours and 40 minutes by 25th May 2022. According to the moon's phases the 12th- 15th, 22nd (Third Quarter Phase) and 23rd of May are good days for planting aboveground crops while the 18th-19th are good days for planting belowground crops. However, the 11th, 16th (Full Moon Phase), 17th, 20th, 21st, 24th and 25th of May 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) May 2022, expect slightly wetter conditions to occur as compared to the first 15-day (1st to 15th) May forecast period. Partly cloudy to cloudy periods with few showers will interrupt sunny and hazy days. Wetter conditions are most likely in the northeastern, eastern, and southeastern parts of Trinidad only.

There is a high probability (70%) chance for crop irrigation measures to take place during the forecast period due to Disclaimer



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F750.04.05

Page 8 of 10

expected low rainfall amounts on certain days. However, livestock should be provided with fresh cool water during this forecast period to rehydrate particularly on dry days. There is a high probability (80%) 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, insect pests and warm weather diseases to develop in crop beds. River levels will remain generally at low levels during this forecast period but will become moderate at times during the 15th -17th of May 2022.

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

Warm, dry, hazy and at times windy conditions occurred across Trinidad and Tobago during the dekad (1 st-9th) of May 2022. This resulted in scanty rainfall amounts, low river levels and low moisture content in soils. Crop growth and development in general on agricultural lands and vegetation growth in pastures have been significantly reduced. The rainfall totals maps for the period, 1st to 9th of May for Trinidad and Tobago are located below as figure 1 and figure 2.

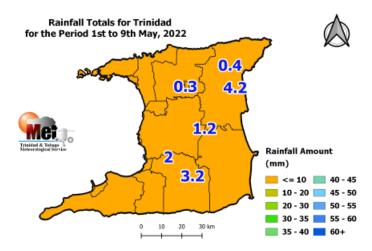


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 9th May 2022.

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F750.04.05

Page 9 of 10

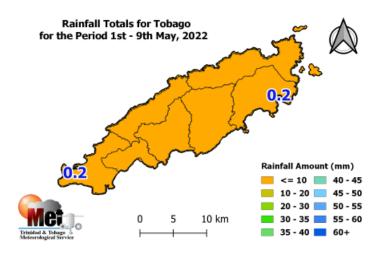


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 9th May 2022.

Temperatures:

Temperatures were cool to warm during the period 1st to 9th May, as the minimum nighttime temperature fell to 22.6 °C and the maximum daytime temperature rose to 33.1 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1^{st} to 9^{th} May, with minimum nighttime temperature fell to $24.5\,^{\circ}$ C and maximum daytime temperature rose to $32.0\,^{\circ}$ C.

Summary

Summary of Expected Weather:

Moderate to Low rainfall amounts are expected on seven of the fifteen days.

One wet day with rainfall amounts ranging between 10.0 mm and 15.0 mm is expected on the 16^{th} of May while, six relatively wet days with rainfall amounts ranging between 1.0 mm and 8.0 mm are expected on the 15^{th} , 17^{th} , 18^{th} and the 23^{rd} - 25^{th} of May 2022. However, eight relatively dry days with rainfall amounts less than 1.0 mm are expected on the 11^{th} - 14^{th} and the 19^{th} - 22^{nd} of May 2022.

Trinidad:

Partly cloudy to cloudy periods are expected on the 15^{th} - 18^{th} and the 23^{rd} - 25^{th} of May 2022, which is likely to bring light/moderate and occasionally heavy rainfall particularly on the 16^{th} of May in farmlands across northeastern, eastern and southeastern parts of Trinidad. The daily rainfall totals are forecast to range between 1.0 mm to 15.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 20.0 mm and 30.0 mm. The moderate rains are expected mostly over farmlands in the northeastern areas of Sangre Grande, Fishing Pond; eastern areas of Plum Mitan,

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F750.04.05

Page 10 of 10

Nariva and Manzanilla and southeastern areas of Mayaro, Guayaguayare and Moruga. However, eight relatively dry days with rainfall amounts less than 1.0 mm are expected on the 11^{th} - 14^{th} and the 19^{th} - 22^{nd} of May 2022.

Tobago:

Tobago will experience drier conditions than Trinidad. Partly cloudy periods on the 15^{th} - 18^{th} and the 23^{rd} - 25^{th} of May 2022, will likely bring light rainfall across farmlands in Tobago. The daily rainfall totals are forecast to range between 1.0 mm to 3.0 mm across different farmlands, with the fifteen-day rainfall totals averaging around 15.0 mm across the island. However, eight relatively dry days with rainfall amounts less than 1.0 mm are expected on the 11^{th} - 14^{th} and the 19^{th} - 22^{nd} of May 2022

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 31.0° C to 33.0° C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 33.0° C to 40.0° C on most days. The minimum temperatures will range between 22.6° C to 24.0° C during most nights/early mornings, dropping lower in rural areas and valleys.

Mostly moderate easterly winds of an average speed of 20 km/h are expected, with gusts of 30-35 km/h at times. Moderate to low rainfall totals, mostly average wind speeds, warm days and warm feels-like temperatures will sustain average evapo-transpiration rates in crops ranging between 4.0 to 10.0 millimeters per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be low to moderate, with average daytime relative humidity values in the upper-40s to upper-70s, in terms of percentage.

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