

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st -10th) of November, 2017.

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 of 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 Assessment for the Third Dekad (21st-31st) of October, 2017.

Mixed conditions dominated Trinidad and Tobago over the dekad, where the islands experienced some cloudy periods at times and moderate to heavy rainfall events in some localities.

Trinidad experienced moderate to heavy rainfall amounts over most areas during days 21st, 22nd, 23rd and 24th of the dekad, with its ten-day rainfall totals ranging between 40.0 mm and 228.0 mm. Piarco had ten-day rainfall total of 62.7 mm with significantly higher amounts reported in El Reposo in the east, Brasso Venado in the central. Conversely, northwestern, western and southwestern areas had experienced significantly lesser amounts.

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Tobago experienced light to moderate rainfall amounts over most areas during days 21st, 22nd, 23rd, 29th, 30th and 31st of the dekad, with its ten-day rainfall totals ranging between 41.7 mm and 100.5 mm. Crown Point had a ten-day rainfall total of 78.2 mm with slightly above this amount reported in the central district of Bethany and a slightly lower amount reported in the northwestern district of Mt. Moriah. Accompanying these conditions maximum temperature in Trinidad got up to 33.5 °C and minimum temperature of 23.3 °C. Whereas, Tobago's temperatures went up to a maximum of 31.8 °C and minimum temperature of 23.9 °C.

Expected Weather for First Dekad (1st-10th) of November, 2017 and Likely Impact on Agriculture.

During days 3rd, 4th, 5th, 6th and 7th of the dekad, there is a 68% chance of a low level moist southeasterly to easterly wind flow associated with the Inter Tropical Convergences Zone (ITCZ) will gradually establishing itself over both islands. This will produce patchy cloudy to cloudy periods with mostly light to moderate, occasionally heavy rainfall and/or possible thundershowers at times. The forecast maximum temperatures during those days in Trinidad will be near 31.9 °C, while Tobago's forecast maximum temperatures will be near 31.3 °C. On the other hand, the forecast minimum temperatures during those days will be near 23.9 °C in Trinidad and near 25.7 °C in Tobago.

Supplementary, during days 1st, 2nd, 8th, 9th and 10th of dekad, expect mostly patchy cloudy skies with brief light occasionally moderate rainfall at times, which will disperse to give sunny, breezy and/or hazy conditions. The maximum temperatures are expected to be near 33.1 °C in Trinidad and 32.3 °C in Tobago. Mostly clear nights will give low temperatures of 23.3 °C in Trinidad and 24.1 °C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 25.0 mm and 50.0 mm, with its ten-day totals ranging between 60.0 mm and 110.0 mm, as seen in figure 1. While Tobago's highest possible daily rainfall totals will range between 25.0 mm and 40.0 mm, with its ten-day totals ranging between 80.0 mm and 110.0 mm, as seen in figure 2.

Expect flash flooding on streets, riverine and flooding in low lying areas during those wet and humid days. Additionally, soggy agricultural fields have the potential for reduced soil oxygen and increase loss of natural nitrogen. Also there is an increase probability of pest and diseases especially the spread of fungi on crops and crop rot following those wet and humid days.

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Trinidad's Mean Daily Rainfall Forecast for the First Dekad of November (1st -10th) 2017.

Northern & Northwestern areas:

Moderate chance (64%) of mean daily rainfall up to 8.2 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 11.0 mm.

Central, West-Central and inland areas:

Moderate chance (63%) of mean daily rainfall up to 7.6 mm.

South-Eastern areas:

Moderate chance (64%) of mean daily rainfall up to 8.2 mm.

Southern areas:

Moderate chance (61%) of mean daily rainfall up to 6.7 mm.

South-Western areas:

Moderate chance (60%) of mean daily rainfall up to 6.0 mm.

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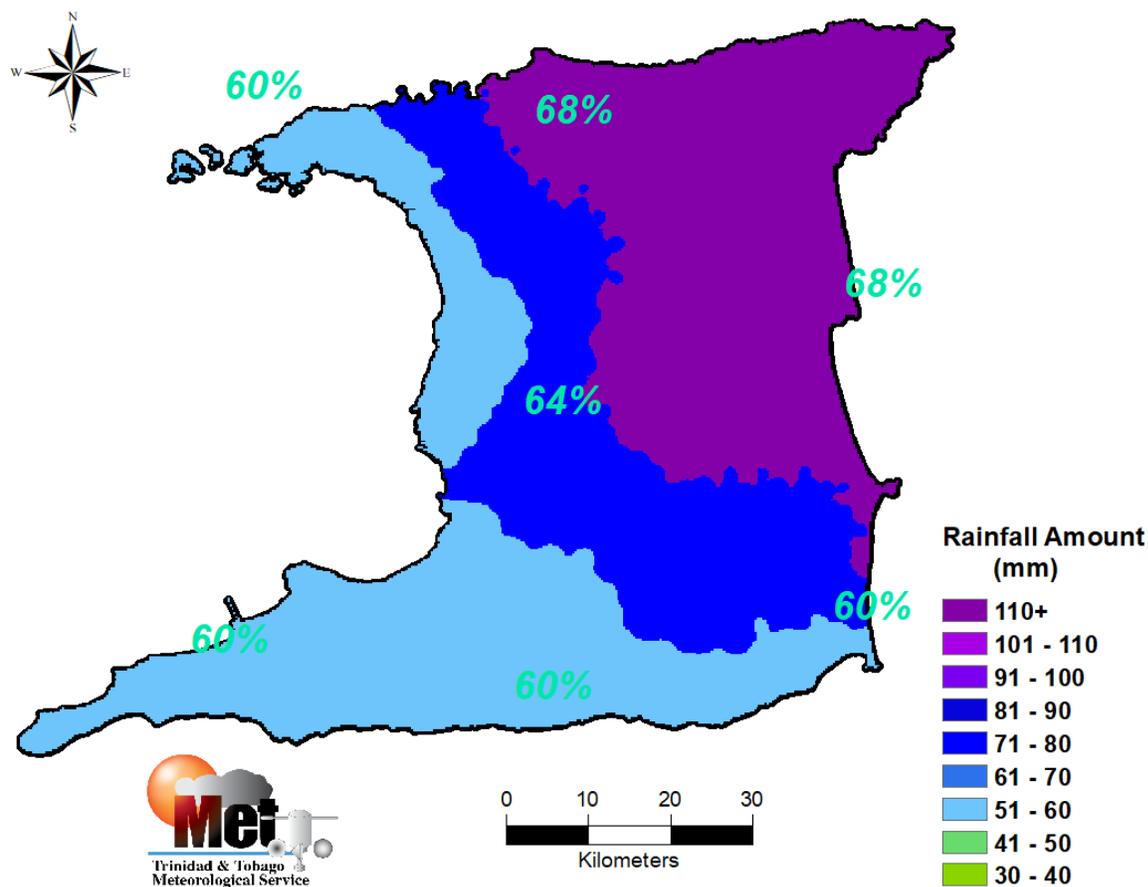


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during first dekad of November, 2017 and percentage probability of occurrence.

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Tobago's Mean Daily Rainfall Forecast for the First Dekad of November (1st -10th) 2017.

Northeastern areas:

Moderate chance (66%) of mean daily rainfall up to 10.3 mm.

South-Western areas:

Moderate chance (65%) of mean daily rainfall up to 10.0 mm.

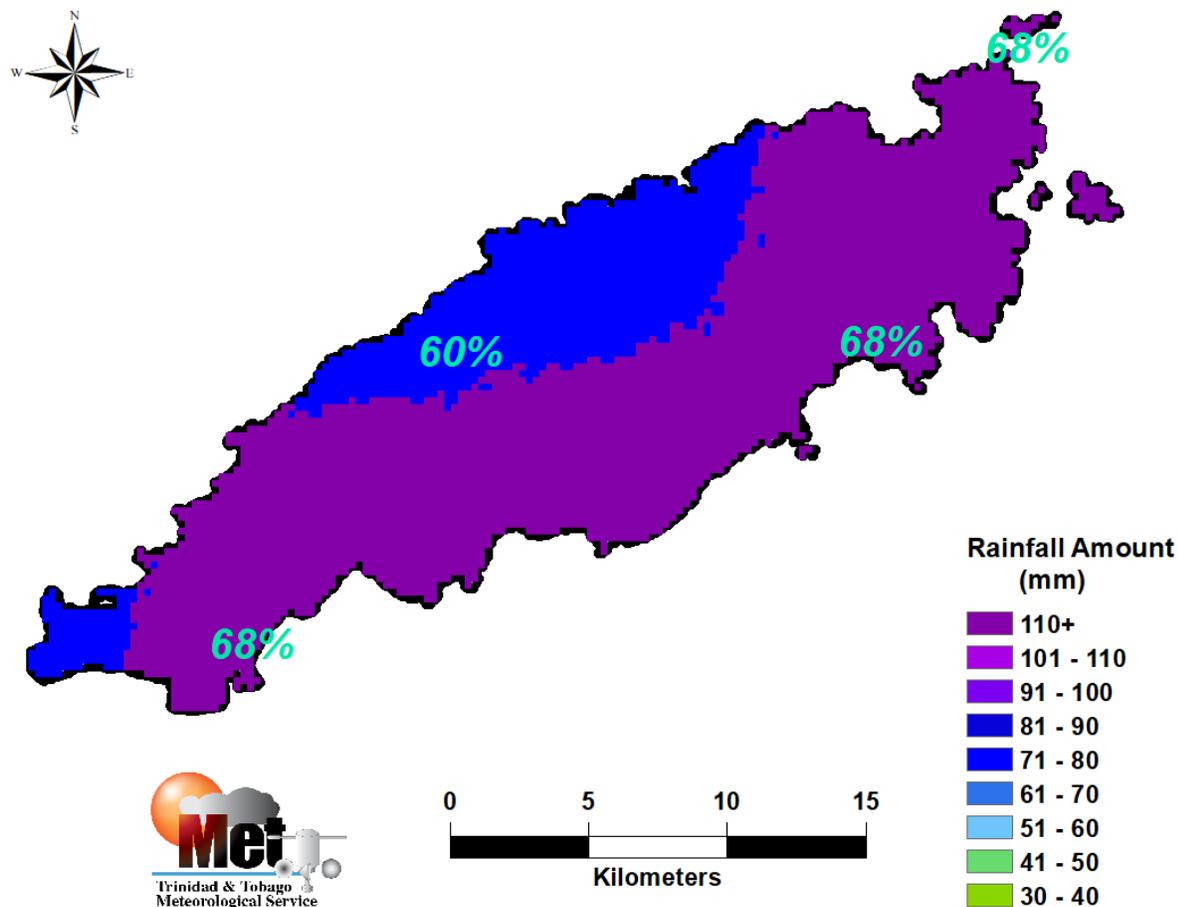


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during first dekad of November, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the First Dekad of November (1st-10th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.9 °C, peaking near 33.1 °C.

Moderate chance (70%) of daily minimum temperatures to be below 23.9 °C, dropping as low as 23.3 °C.

Tobago's Temperature Forecast for the First Dekad of November (1st -10th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.3 °C, peaking near 32.3 °C.

Moderate chance (70%) of daily minimum temperatures to be below 25.7 °C, dropping as low as 24.1 °C.

Summary:

The second peak in the rainy season is in November, having said that, during days 3rd, 4th, 5th, 6th and 7th of the dekad, there is a 68% chance of the Inter Tropical Convergences Zone (ITCZ) gradual influence over both islands. This will produce patchy cloudy to cloudy periods with mostly light to moderate, occasionally heavy rainfall or possible thundershowers at times. The forecast maximum temperatures during those days in Trinidad will be near 31.9 °C, while Tobago's forecast maximum temperatures will be near 31.3 °C. Whereas the forecast minimum temperatures during those days near 23.9 °C in Trinidad and near 25.7 °C in Tobago.

However, during days 1st, 2nd, 8th, 9th and 10th of dekad, expect mostly patchy cloudy skies with brief light occasionally moderate showers at times, which will disperse to give sunny, breezy and/or hazy conditions. The maximum temperatures are expected to be near 33.1 °C in Trinidad and 32.3 °C in Tobago. Mostly clear nights will give low temperatures of 23.3 °C in Trinidad and 24.1 °C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 25.0 mm to 50.0 mm, with its ten-day totals ranging between 60.0 mm and 110.0 mm. While Tobago's highest possible daily rainfall totals will range between 25.0 mm and 40.0 mm, with its ten-day totals ranging between 80.0 mm and 110.0 mm.

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