

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st -31st) of October, 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 Second Dekad (11th -20th) of October, 2017.

Mixed conditions dominated Trinidad and Tobago over the majority of the dekad where the islands experienced mostly cloudy periods at times and moderate to heavy rainfall and very heavy rainfall events in some localities during days 14th, 15th, 18th, 19th and 20th.

Trinidad's ten-day rainfall totals of 137.1 mm was reported at Piarco International Airport with higher amounts reported in El Reposo in the east, Brasso Vernado in the central and San Fernando in the south. Conversely, northwestern Trinidad, especially Port of Spain experienced slightly lesser amounts. While, Tobago's ten-day rainfall total of 64.7 mm was reported at ANR Robinson

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International Airport, twice as much rainfall amount was reported in central district of Bethany and a lower amount reported in north western district of Mt. Moriah.

Trinidad experienced moderate rainfall amounts over most areas during days 14th, 15th and heavy to very heavy rainfall amounts on days 18th, 19th and 20th of the dekad, with its ten-day rainfall totals ranging between 50.0 mm and 240.0 mm. Similarly, Tobago experienced moderate to heavy rainfall amounts over most areas during days 14th, 15th, 18th and heavy rainfall amounts on days 19th and 20th of the dekad, with its ten-day rainfall totals ranging between 28.7 mm and 119.1 mm.

Accompanying these conditions maximum temperatures in Trinidad got up to 34.2 °C and minimum temperatures of 23.3 °C. Whereas, Tobago's temperatures went up to a maximum of 32.7 °C and minimum temperature of 23.9 °C.

Expected Weather for Third Dekad (21st – 31st) of October, 2017 and Likely Impact on Agriculture.

During the first half of the dekad, there is a 65% chance of a low level moist southeasterly to easterly wind flow gradually establishing itself over both islands producing patchy cloudy to cloudy periods with mostly light to moderate, occasionally heavy showers or possible thundershowers at times. The forecast maximum temperatures in Trinidad will be near 33.0 °C, while Tobago's forecast maximums will be near 32.0 °C with forecast minimums near 23.7 °C in Trinidad and near 24.4 °C in Tobago. During the second half of the dekad, possible better conditions may occur, expect mostly patchy cloudy skies with less cloudy periods and brief light occasionally moderate showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 34.2 °C in Trinidad and 32.7 °C in Tobago. Generally clear nights will give low temperatures of 22.6 °C in Trinidad and 23.2 °C in Tobago.

Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 30.0 mm to 60.0 mm, with its ten-day totals ranging between 60.0 mm and 110.0 mm, as seen in figures 1. While Tobago's highest possible daily rainfall totals will range between 30.0 mm and 40.0 mm, with its ten-day totals ranging between 60.0 mm and 80.0 mm, as seen in figures 2.

Waterlogged soils are expected over few areas during wet days, flash flooding on streets at times, riverine and flooding in low lying areas are highly probable during those wet and humid days. In addition, soggy agricultural fields have the potential for reduced soil oxygen and increase loss of natural nitrogen during those days, also there is an increase chance 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 Third Dekad of October (21st -31st) 2017.

Northern & Northwestern areas:

Moderate chance (64%) of mean daily rainfall up to 8.5 mm.

North-Eastern and Eastern areas:

Moderate chance (70%) of mean daily rainfall up to 10.9 mm.

Central, West-Central and inland areas:

Moderate chance (64%) of mean daily rainfall up to 8.6 mm.

South-Eastern areas:

Moderate chance (70%) of mean daily rainfall up to 11.0 mm.

Southern areas:

Moderate chance (65%) of mean daily rainfall up to 8.5 mm.

South-Western areas:

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

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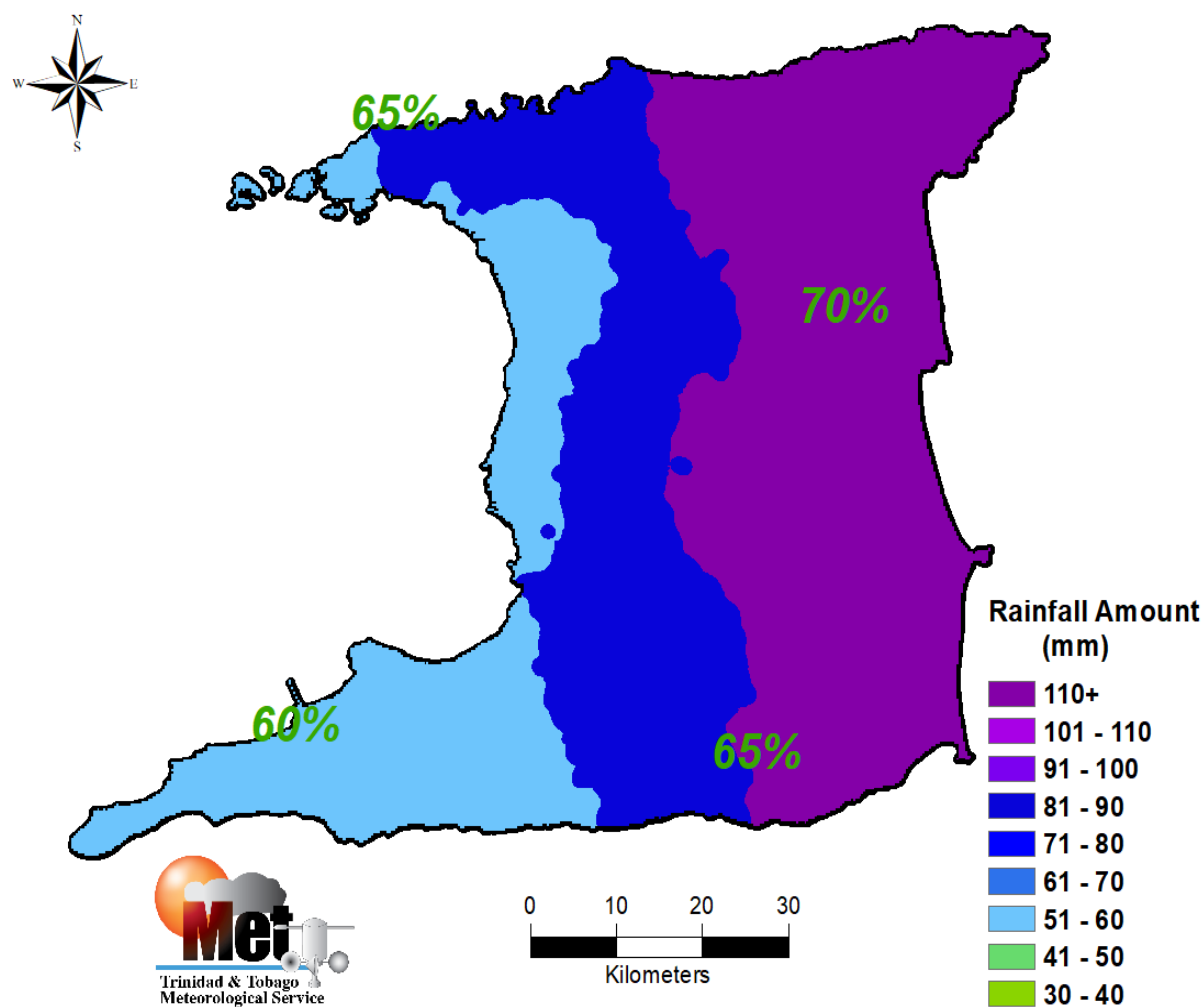


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during third dekad of October, 2017 and percentage probability of occurrence.

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Tobago's Mean Daily Rainfall Forecast for the Third Dekad of October (21st -31st) 2017.

Northeastern areas:

Moderate chance (69%) of mean daily rainfall up to 7.6 mm.

South-Western areas:

Moderate chance (69%) of mean daily rainfall up to 7.6 mm.

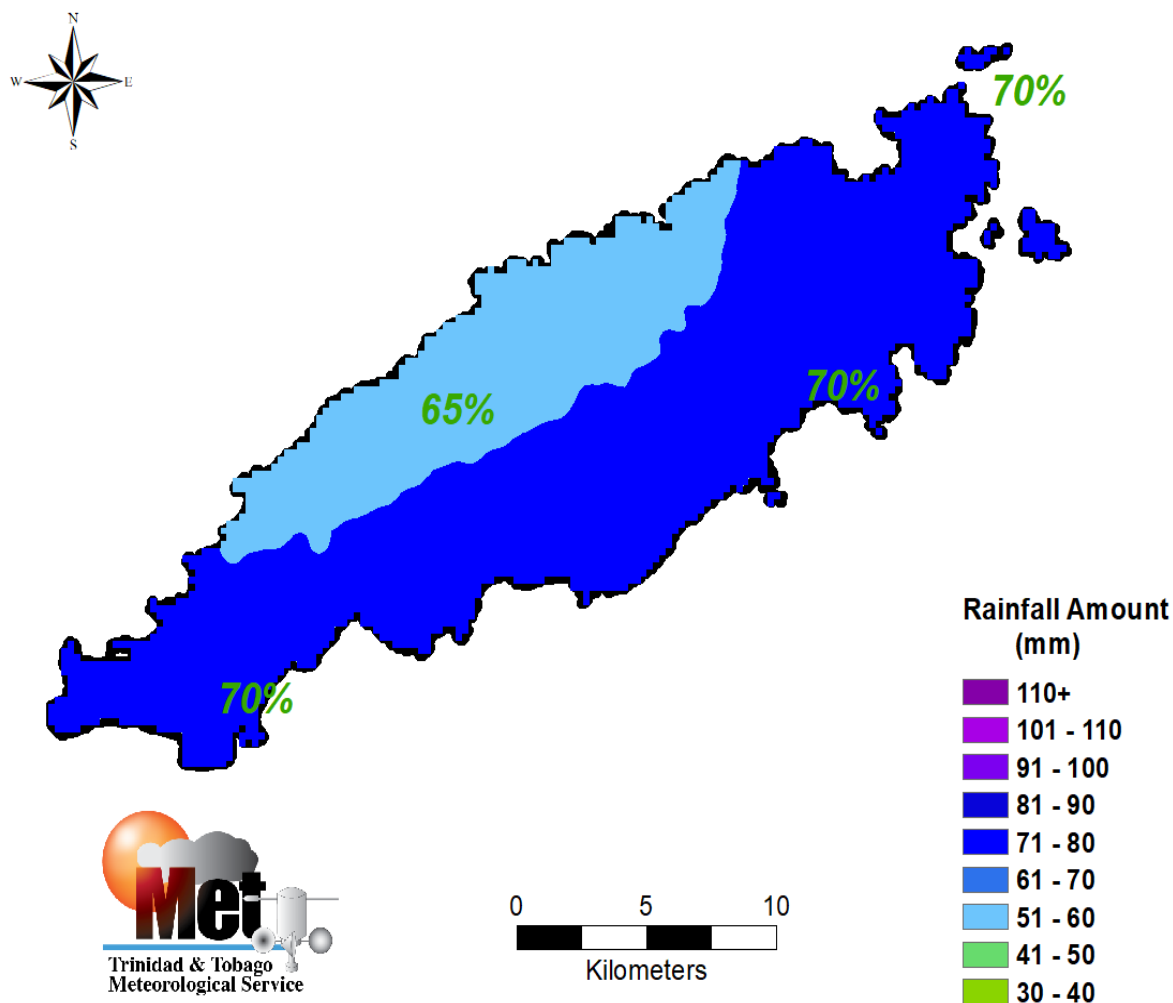


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during third dekad of October, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the Third Dekad of October (21st -31st) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 32.0 °C, peaking near 34.5 °C.

Moderate chance (70%) of daily minimum temperatures to be below 24.2 °C, dropping as low as 23.8 °C.

Tobago's Temperature Forecast for the Third Dekad of October (21st -31st) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.7 °C, peaking near 32.7 °C.

Moderate chance (70%) of daily minimum temperatures to be below 24.4 °C, dropping as low as 24.2 °C.

Summary:

The rainy season is upon us, having said that, the first half of the dekad, there is a 65% chance of a low level moist southeasterly to easterly wind flow gradually establishing itself over both islands producing patchy cloudy to cloudy periods with mostly light to moderate, occasionally heavy showers or possible thundershowers at times. The forecast maximum temperatures in Trinidad will be near 33.0 °C, while Tobago's forecast maximums will be near 32.0 °C with forecast minimums near 23.7 °C in Trinidad and near 24.4 °C in Tobago. During the second half of the dekad, possible better conditions may occur, expect mostly patchy cloudy skies with less cloudy periods and brief light occasionally moderate showers which will disperse to give sunny, breezy and/or hazy conditions at times, with high temperatures of 34.2 °C in Trinidad and 32.7 °C in Tobago. Generally clear nights will give low temperatures of 22.6 °C in Trinidad and 23.2 °C in Tobago.

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