

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th -20th) of May, 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 First Dakad (1st-10th) of May, 2017.

Mostly mixed conditions dominated Trinidad and Tobago over the majority of the dekad where both islands experienced patchy cloudiness to cloudy periods at times, with some mostly light rainfall over few areas. Trinidad experienced showers that produced scanty to moderate rainfall amounts over few areas during days 2nd, 3rd, 6th, 7th and 10th of the dekad, with its ten-day rainfall totals ranging between a 0.5 mm to 12.7 mm. However, Tobago experienced mostly scanty to moderate rainfall over few areas during days 5th, 7th, 9th and 10th of the dekad, with its ten-day rainfall totals ranging between 2.3 mm to 15.2 mm. Accompanying these conditions maximum temperatures in Trinidad got up to 35.2 °C and minimum temperatures of 23.2 °C. Whereas, Tobago's temperatures went up to a maximum of 32.2 °C and minimum temperature of 24.2 °C

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Expected Weather for Second Dekad (11th – 20th) of May, 2017 and Likely Impact on Agriculture.

On days 11th, 15th, 16th and 19th, farmers in both Trinidad and Tobago should expect sporadic cloudy patches at times and a 40% chance of brief light showers, producing scanty to moderate rainfall amounts. The cloud patches will disperse to give breezy and sunny conditions with high temperatures of 35.0 °C in Trinidad and 32.2 °C in Tobago. Generally clear nights will give low temperatures of 22.9°C in Trinidad and 23.9 °C in Tobago.

On days; 12th, 13th and 14th of the dekad, there is a 65% chance of a low level moist southeasterly wind flow establishing itself over both islands producing patchy cloudy to cloudy periods with light to moderate showers at times. On days; 17th, 18th and 20th, there is 60% chance that the low level moist southeasterly wind flow will re-establish itself over both islands producing patchy cloudy periods and mostly light occasionally moderate showers at times. Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 3.0 mm and 12.0 mm, with ten-day totals ranging between 21.0 mm and 39.0 mm, while Tobago's highest possible daily rainfall totals will range between 3.0 mm and 12.0 mm with ten-day totals ranging between 21.0 mm and 31.0 mm as seen in figures 1 and 2.

During days: 12th, 13th, 14th, 17th, 18th and 20th forecast maximum temperatures in Trinidad will be near 33.6 °C, while Tobago's forecast maximums will be near 31.3 °C, forecast minimums will be near 24.1 °C in Trinidad and be near 24.9 °C in Tobago. The fairly wet and humid conditions during those days may lend itself to greening-up of pastures for livestock and reducing chances of bush fires in few areas.

Trinidad's Mean Daily Rainfall Forecast for the Second Dekad of May (11th-20th) 2017.

Northern & Northwestern areas:

Moderate chance (63%) of mean daily rainfall up to 3.2 mm.

North-Eastern and Eastern areas:

Moderate chance (65%) of mean daily rainfall up to 3.9 mm.

Central, West-Central and inland areas:

Moderate chance (62%) of mean daily rainfall up to 2.8 mm.

South-Eastern areas:

Moderate chance (65%) of mean daily rainfall up to 3.9 mm.

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Southern areas:

Moderate chance (63%) of mean daily rainfall up to 3.0 mm.

South-Western areas:

Moderate chance (61%) of mean daily rainfall up to 2.4 mm.

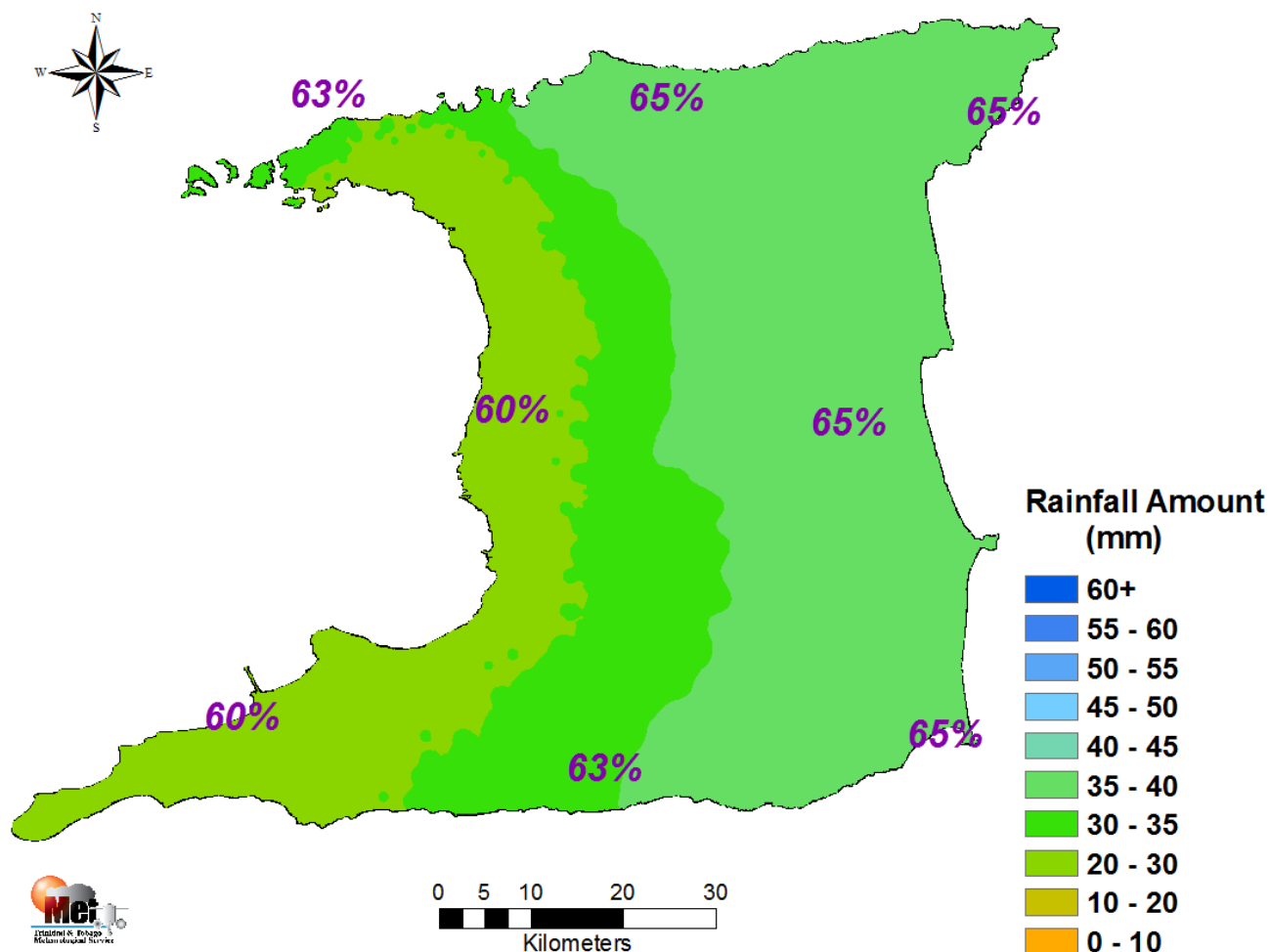


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during Second dekad of May, 2017 and percentage probability of occurrence.

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Tobago's Mean Daily Rainfall Forecast for the Second Dekad of May (11th -20th) 2017.

Northeastern areas:

Moderate chance (64%) of mean daily rainfall up to 3.0 mm.

South-Western areas:

Moderate chance (64%) of mean daily rainfall up to 3.0 mm.

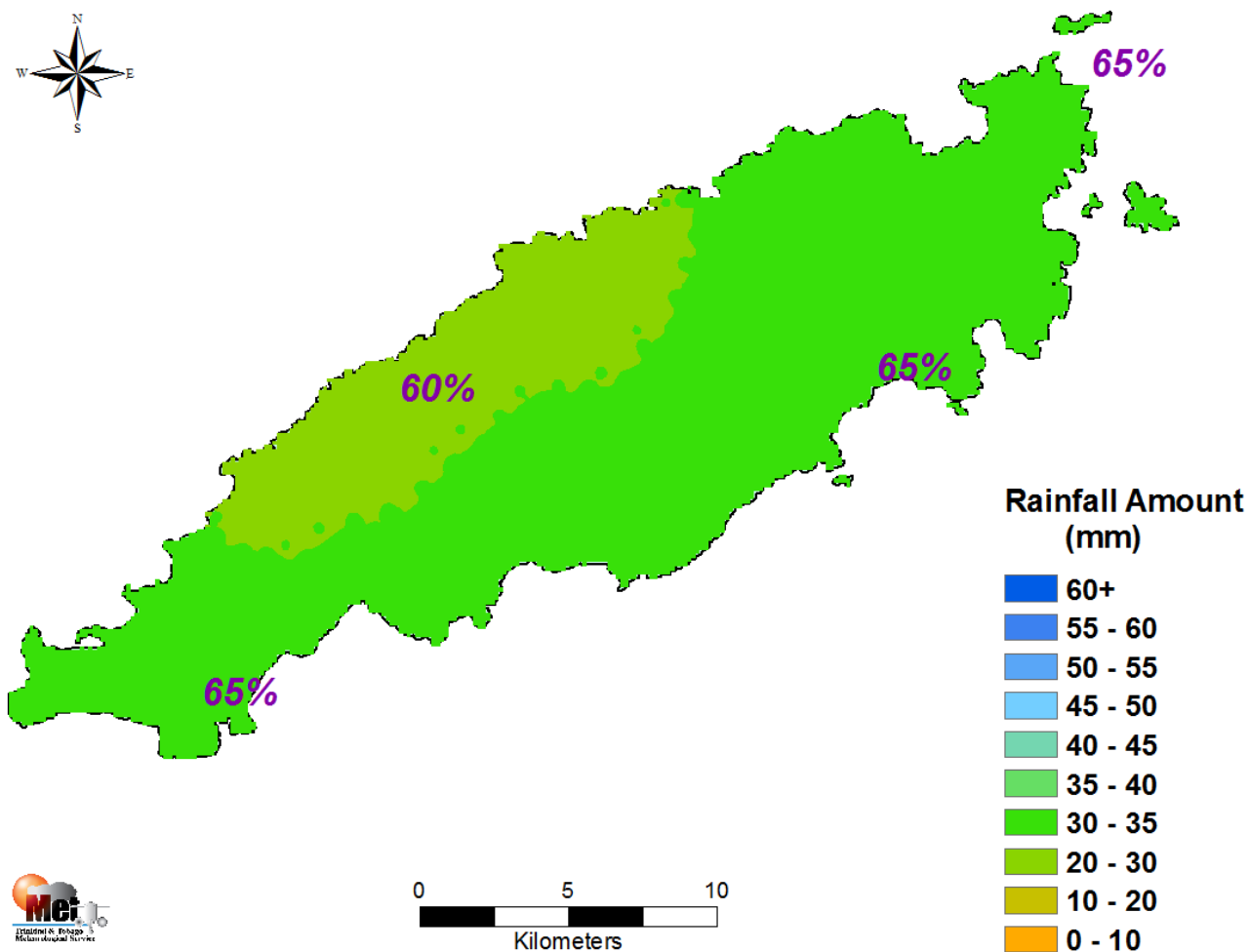


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during Second dekad of May, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad's Temperature Forecast for the Second Dekad of May (11th -20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 33.6^oC, peaking near 35.0^oC.

Moderate chance (70%) of daily minimum temperatures to be below 24.1^oC, dropping as low as 22.9^oC.

Tobago's Temperature Forecast for the Second Dekad of May (11th -20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.3^oC, peaking near 32.2^oC.

Moderate chance (70%) of daily minimum temperatures to be below 24.9^oC, dropping as low as 23.9^oC.

Summary:

The forecast for the Second Dekad of May (11th -20th) 2017, favours mostly mix weather, early morning patchy cloudiness with showers at times, followed by dry/breezy conditions. However, during days 12th, 13th, 14th, 17th, 18th and 20th, there is a moderate probability of weather favouring light to moderate rainfall amounts. There is a 63% chance that over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 3.0 mm and 12.0 mm with ten-day totals ranging between 21.0 mm and 39.0 mm, while Tobago's highest possible daily rainfall totals will range between 3.0 mm and 12.0 mm with ten-day totals ranging between 21.0 mm and 31.0 mm as seen in figures 1 and 2.

Temperatures are set to peak near 35.0^oC in Trinidad and near 32.2^oC in Tobago. The fairly wet and humid conditions during those days may lend itself to greening-up of pastures for livestock and reducing chances of bush fires in few areas. If possible, farmers are encouraged to practice mulching after wet days to retain the moisture gained for longer periods and improve irrigation practices for drier days.

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