

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st -10th) of June, 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 Dakad (21st -31st) of May, 2017.

Mixed conditions dominated Trinidad and Tobago over the majority of the dekad where the islands experienced patchy cloudiness to cloudy periods at times, with light to moderate rainfall events. Trinidad experienced showers that produced moderate to heavy rainfall amounts over most areas during days 21st, 23rd and 29th of the dekad, with its ten-day rainfall totals ranging between 9.0 mm and 60.0 mm. However, Tobago experienced light showers that produced scanty to moderate rainfall amounts over most areas during days 23rd, 27th and 30th of the dekad, with its ten-day rainfall totals ranging between 0.4 mm and 7.6 mm. Accompanying these conditions maximum temperatures in Trinidad got up to 33.6 °C and minimum temperatures of 23.3°C. Whereas, Tobago's temperatures went up to a maximum of 32.8 °C and minimum temperature of 24.1 °C

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Expected Weather for First Dekad (01st – 10th) of June, 2017 and Likely Impact on Agriculture.

On days 1st, 2nd, 7th and 8th, stakeholders and particularly farmers in both Trinidad and Tobago should expect few cloudy periods and a 55% chance of brief light showers at times, producing scanty to moderate rainfall amounts. The cloudy periods will disperse to give sunny and breezy conditions at times, with high temperatures of 34.0 °C in Trinidad and 32.1 °C in Tobago. Generally clear nights will give low temperatures of 23.5 °C in Trinidad and 23.9 °C in Tobago.

However, on days 3rd, 4th and 5th of the dekad, there is a 68% chance of a low level moist southeasterly wind flow establishing itself over both islands producing patchy cloudy to cloudy periods with light to moderate occasionally heavy showers at times. On days; 8th, 9th and 10th, there is 60% chance that the low level moist southeasterly wind flow will re-establish itself over both islands producing patchy cloudy periods and light to moderate showers at times. Over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 8.0 mm and 37.0 mm, with ten-day totals ranging between 32.0 mm and 80.0 mm, while Tobago's highest possible daily rainfall totals will range between 8.0 mm and 24.0 mm with ten-day totals ranging between 30.0 mm and 47.0 mm as seen in figures 1 and 2.

During days: 3rd, 4th, 5th, 8th, 9th and 10th forecast maximum temperatures in Trinidad will be near 32.1 °C, while Tobago's forecast maximums will be near 31.1 °C, forecast minimums will be near 24.3 °C in Trinidad and be near 24.9 °C in Tobago. The wet and humid conditions during those days may lend itself to greening-up of pastures and refilling of rivers and ponds. Newly planted seedlings may have a greater chance of survival and crops may have a healthier appearance.

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

Northern & Northwestern areas:

Moderate chance (67%) of mean daily rainfall up to 6.8 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 8.0 mm.

Central, West-Central and inland areas:

Moderate chance (67%) of mean daily rainfall up to 6.6 mm.

South-Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 8.0 mm.

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Southern areas:

Moderate chance (66%) of mean daily rainfall up to 5.7 mm.

South-Western areas:

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

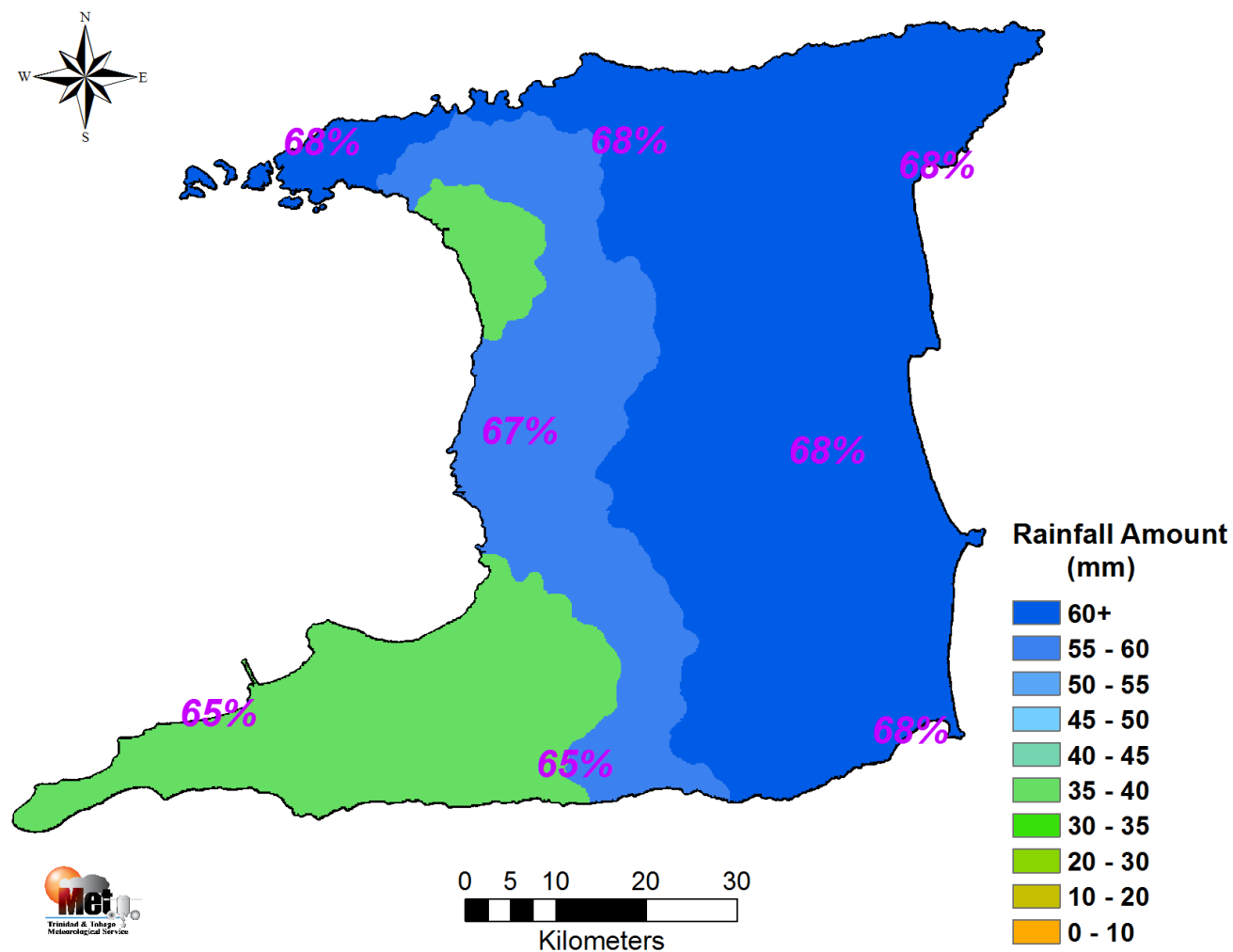


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during first dekad of June, 2017 and percentage probability of occurrence.

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

Northeastern areas:

Moderate chance (64%) of mean daily rainfall up to 3.8 mm.

South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 4.6 mm.

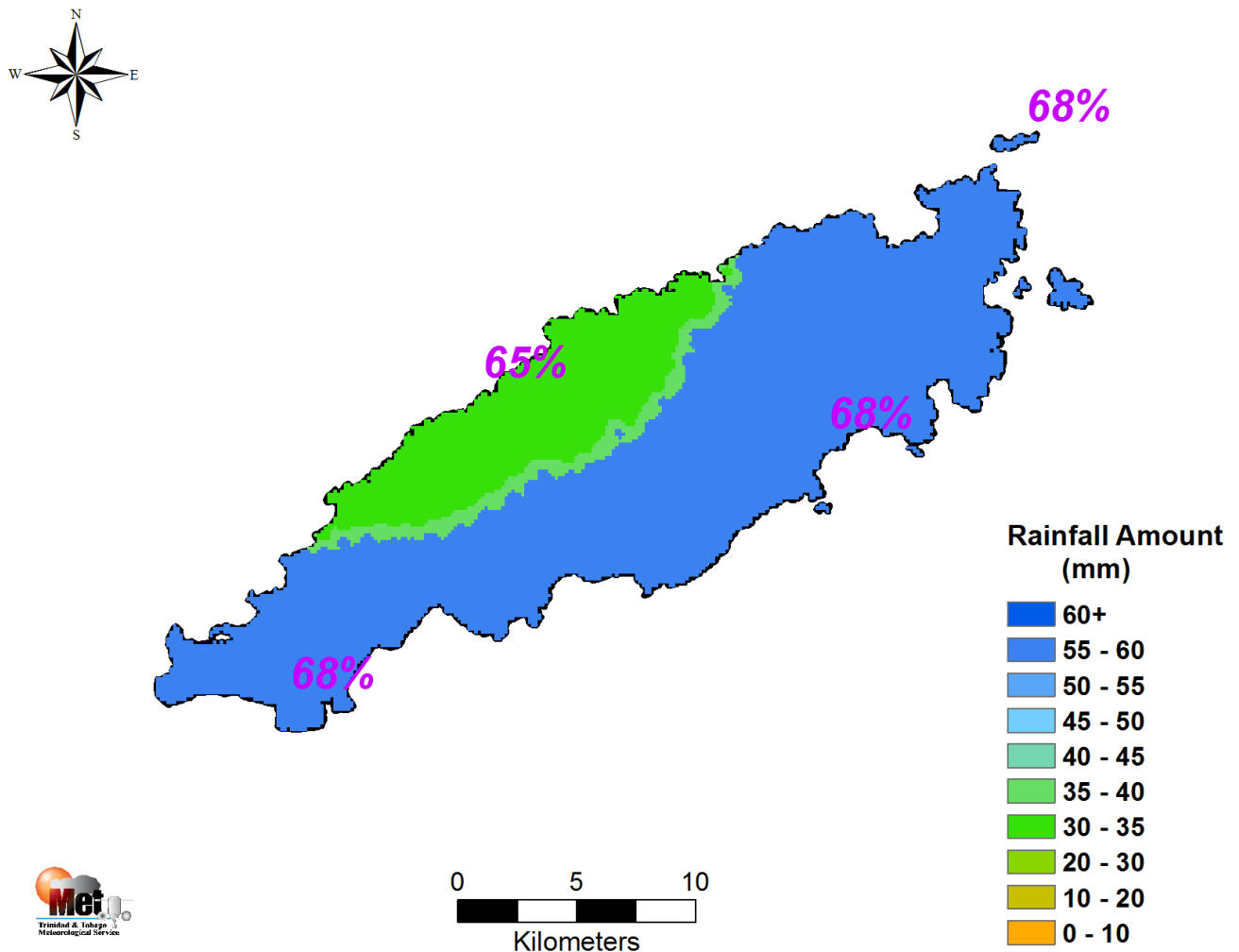


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during first dekad of June, 2017 and percentage probability of occurrence.

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Temperatures:

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

Moderate chance (70%) of daily maximum temperatures to exceed 32.1⁰C, peaking near 34.0⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 24.3⁰C, dropping as low as 23.5⁰C.

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

Moderate chance (70%) of daily maximum temperatures to exceed 31.1⁰C, peaking near 32.1⁰C.

Moderate chance (70%) of daily minimum temperatures to be below 24.9⁰C, dropping as low as 23.9⁰C.

Summary:

The rainy season is upon us, having said that, the forecast for the first Dekad of June (1st-10th) 2017, favours mostly mix weather, patchy cloudiness to cloudy periods with showers at times, followed by dry and at times breezy conditions. Particularly, during days 3rd, 4th, 5th, 8th, 9th and 10th, there is a moderate probability of weather favouring light to moderate occasionally heavy rainfall amounts. There is a 67% chance that over the ten-day period, Trinidad's highest possible daily rainfall totals will range between 8.0 mm and 37.0 mm with ten-day totals ranging between 32.0 mm and 80.0 mm, while Tobago's highest possible daily rainfall totals will range between 8.0 mm and 24.0 mm with ten-day totals ranging between 30.0 mm and 47.0 mm as seen in figures 1 and 2.

Temperatures are set to peak near 34.0⁰C in Trinidad and near 32.1⁰C in Tobago. The wet and humid conditions during those days may lend itself to greening-up of pastures, refilling of rivers and ponds. Newly planted seedlings may have a greater chance of survival and crops may have a healthier appearance.

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