



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

Mostly dry and breezy conditions dominated Trinidad and Tobago, however days 2, 6 and 8 experienced intermittent cloudy periods over both islands. On days 2 and 8, Trinidad experienced some scanty to moderate rainfall over northwestern, northeastern and central areas, while just scanty rainfall fell over southern and southwestern areas. The ten-day rainfall totals for Trinidad range between 2.0 mm to 18.0 mm. Tobago experienced light to moderate rainfall during days 1 and 8 of the dekad, where their ten-day rainfall totals ranging between 2.0 mm to 12.0 mm. Accompanying these conditions maximum temperatures in Trinidad got up to 32.7 °C and minimum temperatures of 21.6 °C. Whereas, Tobago's temperatures went up to a maximum of 31.0°C and minimum

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temperature of 22.4 °C. Both islands had mostly clear and cool nights which assisted in producing lower temperatures.

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

Over the next 5 consecutive days, farmers in both Trinidad and Tobago should expect breezy conditions with infrequent cloudy patches and brief light showers, producing scanty to moderate rainfall amounts. This is due to low level moisture associated with convergent bands along the northeast trade-wind flow. The cloudiness will disperse to give breezy and sunny conditions with high temperatures of 32.8 °C in Trinidad and 31.4°C in Tobago. Generally clear nights will give low temperatures of 20.6 °C in Trinidad and 22.6 °C in Tobago with the slight chance of possible early morning shallow patches of mist that will disintegrate just after dawn.

On days 17th and 18th there is a moderate chance of a moist wind flow that will establish itself upon both islands and will result in cloudy periods with light to moderate showers with possible gusty winds at times, improving on the last two days of the dekad. Both islands highest possible daily rainfall totals will range between 8.0 mm and 25.0 mm. Over these two consecutive days, forecast temperatures in Trinidad will be near 31.2 °C while Tobago forecast maximum will near 29.5°C with minimums of 23.4 °C in Trinidad and 24.2 °C in Tobago. The wet and humid conditions during days 17th and 18th will lend itself to greening-up of pastures for livestock, improve water flow in streams, rivers and ponds. It will also support healthier looking crops and newly transplanted seedling may have a good chance at survival.

Trinidad Mean Daily Rainfall Forecast for Second Dekad of February (11th -20th) 2017.

Northern & Northwestern areas:

Moderate chance of (66%) of mean daily rainfall up to 2.5 mm.

North-Eastern and Eastern areas:

Moderate chance of (70%) of mean daily rainfall up to 3.8 mm.

Central, West-Central and inland areas:

Moderate chance of (63%) of mean daily rainfall up to 2.2 mm.

South-Eastern areas:

Moderate chance of (70%) of mean daily rainfall up to 3.8 mm.

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Southern areas:

Moderate chance of (65%) of mean daily rainfall up to 2.8 mm.

South-Western areas:

Moderate chance of (60%) of mean daily rainfall up to 1.9 mm.

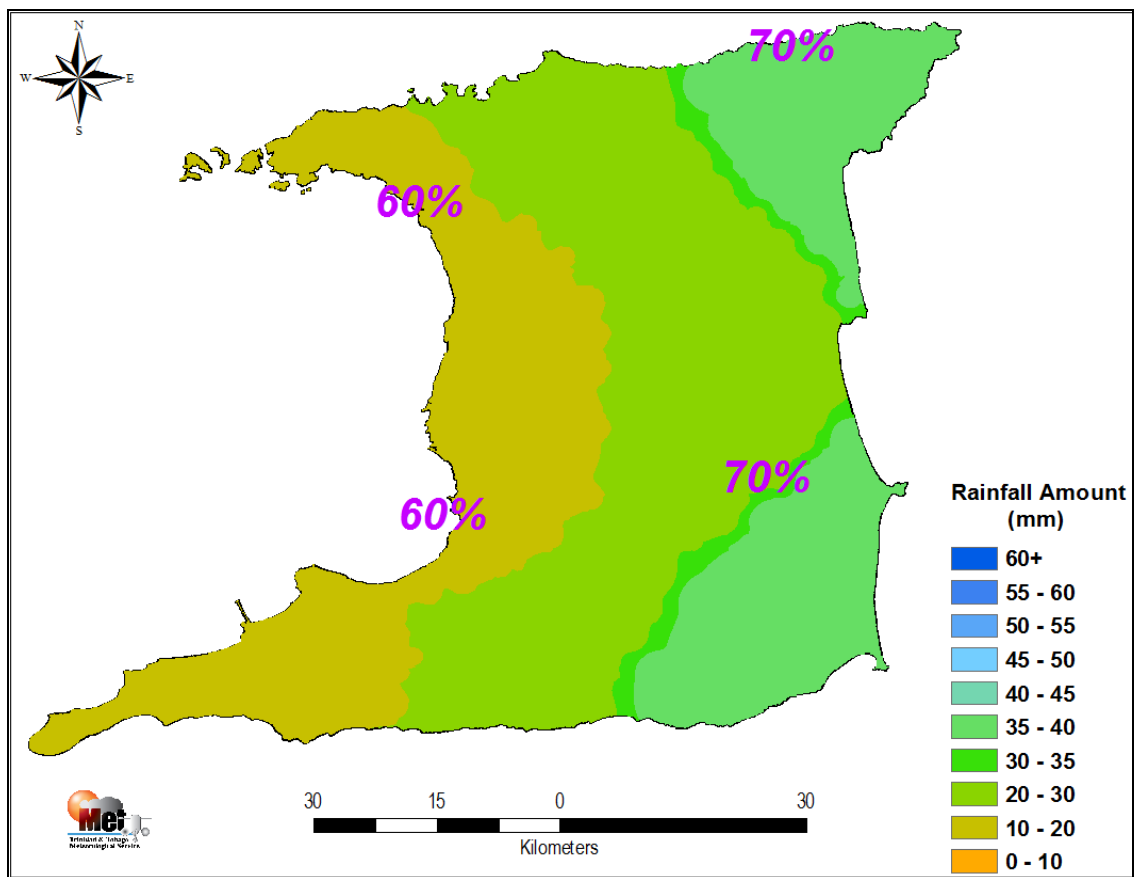


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during Second dekad of February, 2017 and percentage probability of occurrence.

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Tobago Mean Daily Rainfall Forecast for Second Dekad of February (11th -20th) 2017.

Northeastern areas:

Moderate chance (60%) of mean daily rainfall up to 1.9 mm.

South-Western areas:

Moderate chance (70%) of mean daily rainfall up to 3.0 mm.

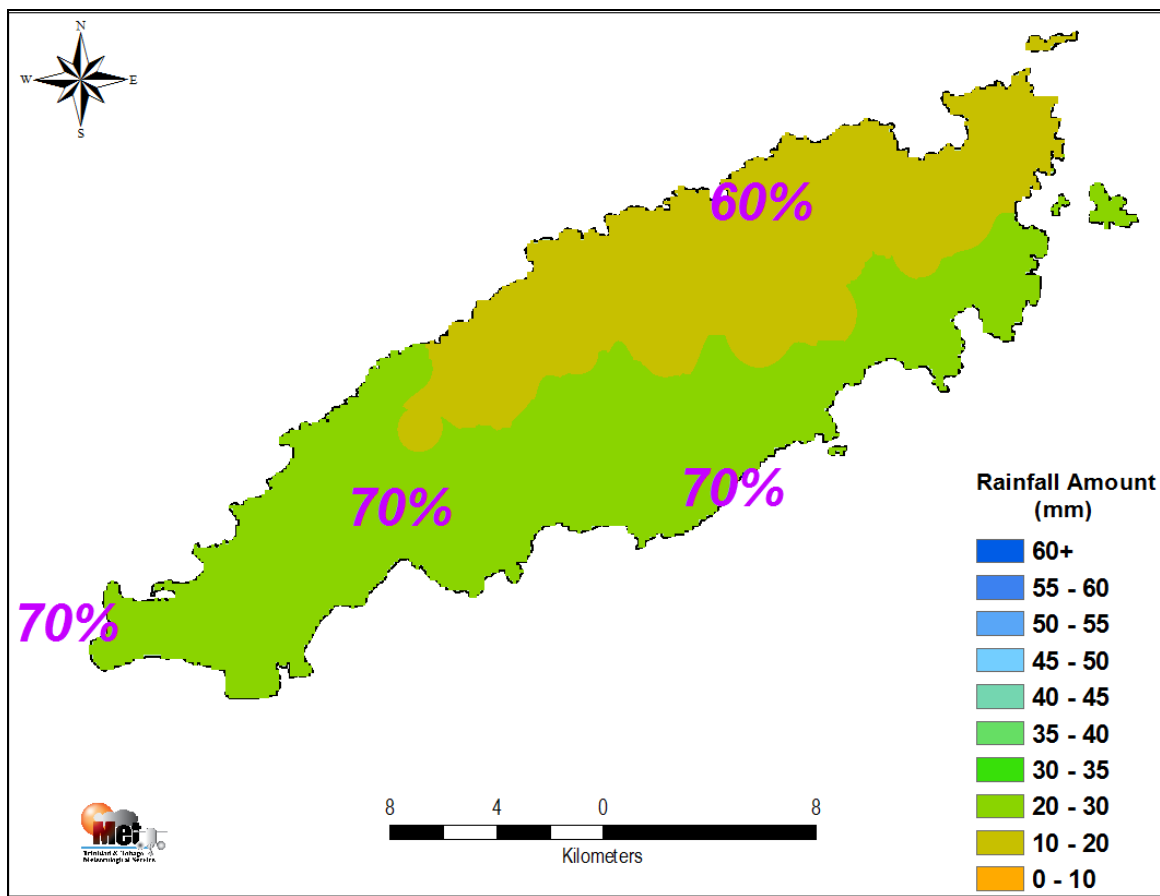


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during Second dekad of February, 2017 and percentage probability of occurrence.

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Temperatures:

Trinidad Temperature Forecast for Second Dekad of February (11th -20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 32.0 °C, peaking near 32.8 °C.

Moderate chance (70%) of daily minimum temperatures to be below 22.3 °C, dropping as low as 20.6 °C.

Tobago Temperature Forecast for Second Dekad of February (11th -20th) 2017.

Moderate chance (70%) of daily maximum temperatures to exceed 31.0 °C, peaking near 31.4°C.

Moderate chance (70%) of daily minimum temperatures to be below 23.6°C, dropping as low as 22.6°C.

Summary:

The forecast for the second dekad of February (11th -20th) 2017, favours initially mostly dry weather. Days 17th and 18th will favour light to moderate rainfall with daily amounts ranging from 8.0 mm to 25.0 mm. There is a 65% chance that the possible ten-day rainfall totals be between 15.0 mm and 30.0 mm across Tobago and a 65% chance the possible ten-day rainfall totals be between 12.0 mm and 35.0 mm across Trinidad. Temperatures are set to peak near 32.8°C in Trinidad and near 31.4°C in Tobago. 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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