



**Agro-meteorological Bulletin and Assessment for Farmers and Livestock
Producers of Trinidad and Tobago for the Second Dekad (11th -20th) of
February, 2018.**

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 Dekad (1st – 10th) of February, 2018.

Days 2nd, 5th, 7th and 8th of the last dekad turned out to be relative wet days over most of the country. The ten-day rainfall total recorded at Piarco Trinidad, was 12.5 mm, very close to the expected range of 10.0 mm to 20.0 mm. El Reposo and other northeastern districts had similar amounts of rainfall as what was expected. El Reposo reported 29.0 mm within the 20.0 mm to 30.0 mm range forecasted. Central districts of Carapichama, Preysal and Couva had rainfall totals of 12.6 mm and 17.3 mm respectively, well within the 10.0 mm to 20.0 mm range forecasted. Other southern districts follow the same vein, having expected rainfall, except for Chatham which had 23.8 mm, slightly above the expected range of 10.0 mm to 20.0 mm forecasted for that area. Northern and Northwestern districts of Tunapuna and West Moorings had rainfall totals of 17.3 mm and 14.7 mm respectively, well

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.



within the 10.0 mm to 20.0 mm range forecasted. But Carenage had a total of 32.0 mm which was above the forecasted range of 10.0 mm to 20.0 mm.

Similarly, Tobago had close to the expected rainfall amounts. ANR Robinson airport had rainfall amount of 18.9 mm which was near to what was forecasted range of 20.0 mm to 30.0 mm. Neighboring districts' such as Bethel, Mount Pleasant and Buccoo and environs experienced similar rainfall amounts as well.

Temperatures continue to be cool in Trinidad and Tobago. Trinidad's maximum temperature went up to 30.6 °C. At the same time Tobago's maximum got up to 31.1 °C. Conversely, lowest temperatures recorded were 19.3 °C in Trinidad and 21.4 °C in Tobago. The average humidity for both islands remained in the low-seventies but went up to low eighties during rainfall events. The cloudy and sometimes rainy episodes during the dekad may have reduced the need for irrigation especially during days 2nd, 5th, 7th and 8th of the dekad.

Expected Weather for Second Dekad (11th - 20th) of February, 2018 and Likely Impact on Agriculture.

The forecast for the Second dekad of February indicates that farmers can expect lesser amounts of rainfall as compared to the last dekad. Farmers can expect relatively dry to relatively wet conditions throughout the dekad. The ten-day period totals are forecasted to range between 15.0 mm and 25.0 mm in Trinidad and forecast to range between 10.0 mm and 20.0 mm in Tobago.

The average daily temperatures across Trinidad and Tobago are likely to range between 25.8 °C and 27.0 °C. Expect the highest maximum temperature over the dekad to peak near 32.3 °C in Trinidad while the lowest night to early morning minimum temperature could dip below 20.2 °C in Trinidad, especially along the foothills and valleys during relatively cloud free nights. During the dekad, in Tobago, the highest maximum temperature will peak near 30.9 °C, while the lowest minimum temperature will be dip below 21.5 °C, mostly during relatively cloud free nights.

For both Trinidad and Tobago, the day time relative humidity (RH) is likely to range between 48% to 69%. But during relatively wet days, RH percentage values will range around 70% to 80%. At the same time, winds speeds are expected to mostly range between 20-36 km/h or 5.5-10 m/s. Also, evaporation rates are expected to be in the range from 3.6 mm/day to 9.4 mm/day but can be slightly more during warmer and windier periods. However, slightly less during relativity wet and still periods.

Relatively dry conditions over this dekad will assist somewhat, in terms of increasing the need for frequent irrigation. In the event that relatively wet conditions occur, reduced frequency of irrigation would be needed. Possible warm conditions within some crop canopies following episodes of rainfall, will be favourable for some agricultural insect pests, fungi and diseases to develop and thrive. Moreover, the expected day time wind speeds, together with the funneling effect of wind

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.

along narrow paths and undulating landscapes, may affect seedlings negatively by causing seedlings' stems and leaves to be damaged. Also, strong winds may hamper some types of fertilizer application and crops' ability to retain flowers.

Trinidad's Mean Daily Rainfall Forecast for the Second Dekad of February (11th–20th) 2018.

Northern & Northwestern areas:

Moderate chance (66%) of mean daily rainfall up to 2.2 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 2.5 mm.

Central, West-Central and inland areas:

Moderate chance (63%) of mean daily rainfall up to 1.8 mm.

South-Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 2.5 mm.

Southern areas:

Moderate chance (66%) of mean daily rainfall up to 2.3 mm.

South-Western areas:

Moderate chance (65%) of mean daily rainfall up to 2.2 mm.

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.

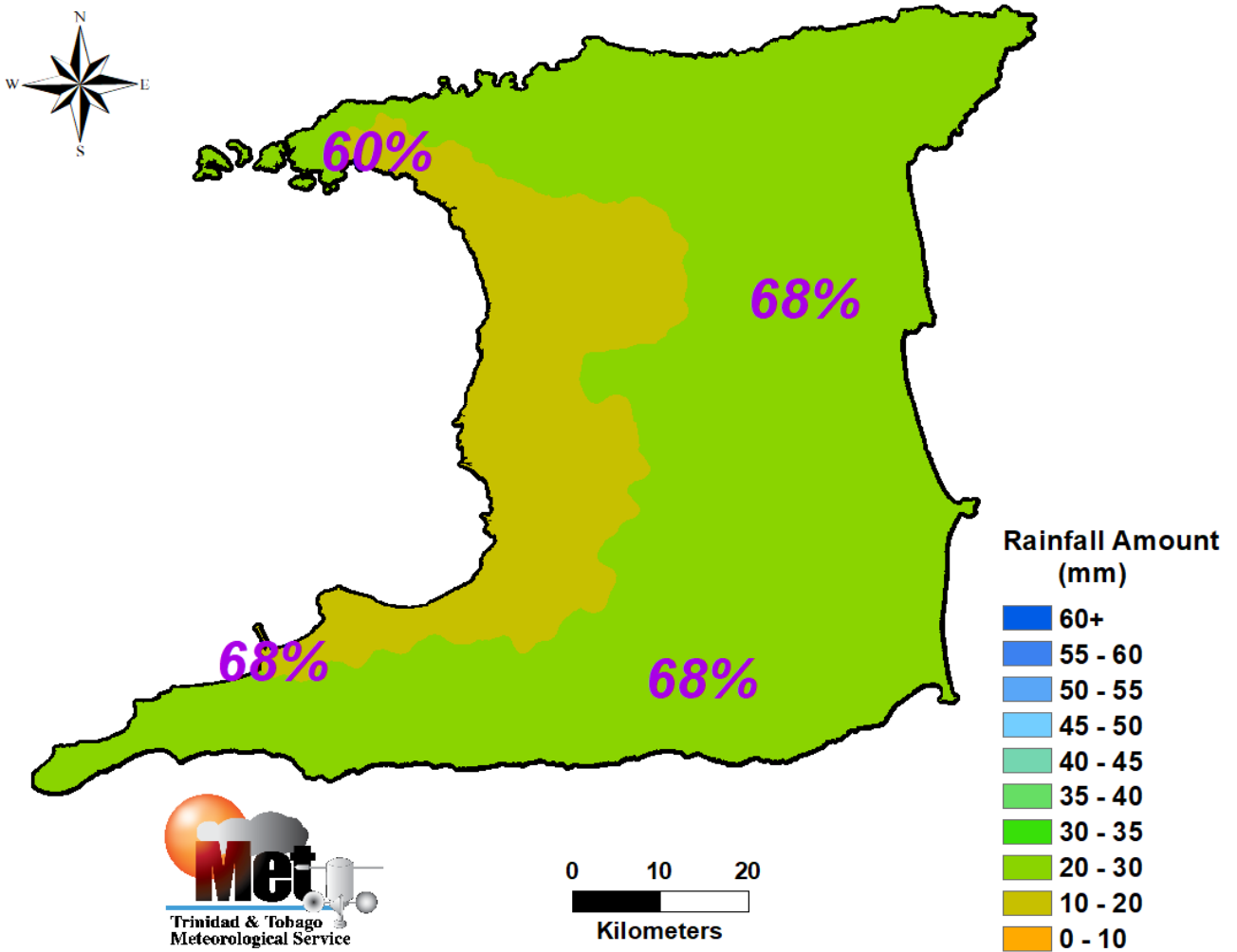


Figure 1. Rainfall Map of Trinidad showing possible rainfall totals for varying districts during Second dekad of February, 2018 and percentage probability of occurrence.

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.

Tobago's Mean Daily Rainfall Forecast for the Second Dekad of February (11th -20th) 2018.

Northeastern areas:

Moderate chance (68%) of mean daily rainfall up to 2.0 mm.

South-Western areas:

Moderate chance (66%) of mean daily rainfall up to 1.7 mm.

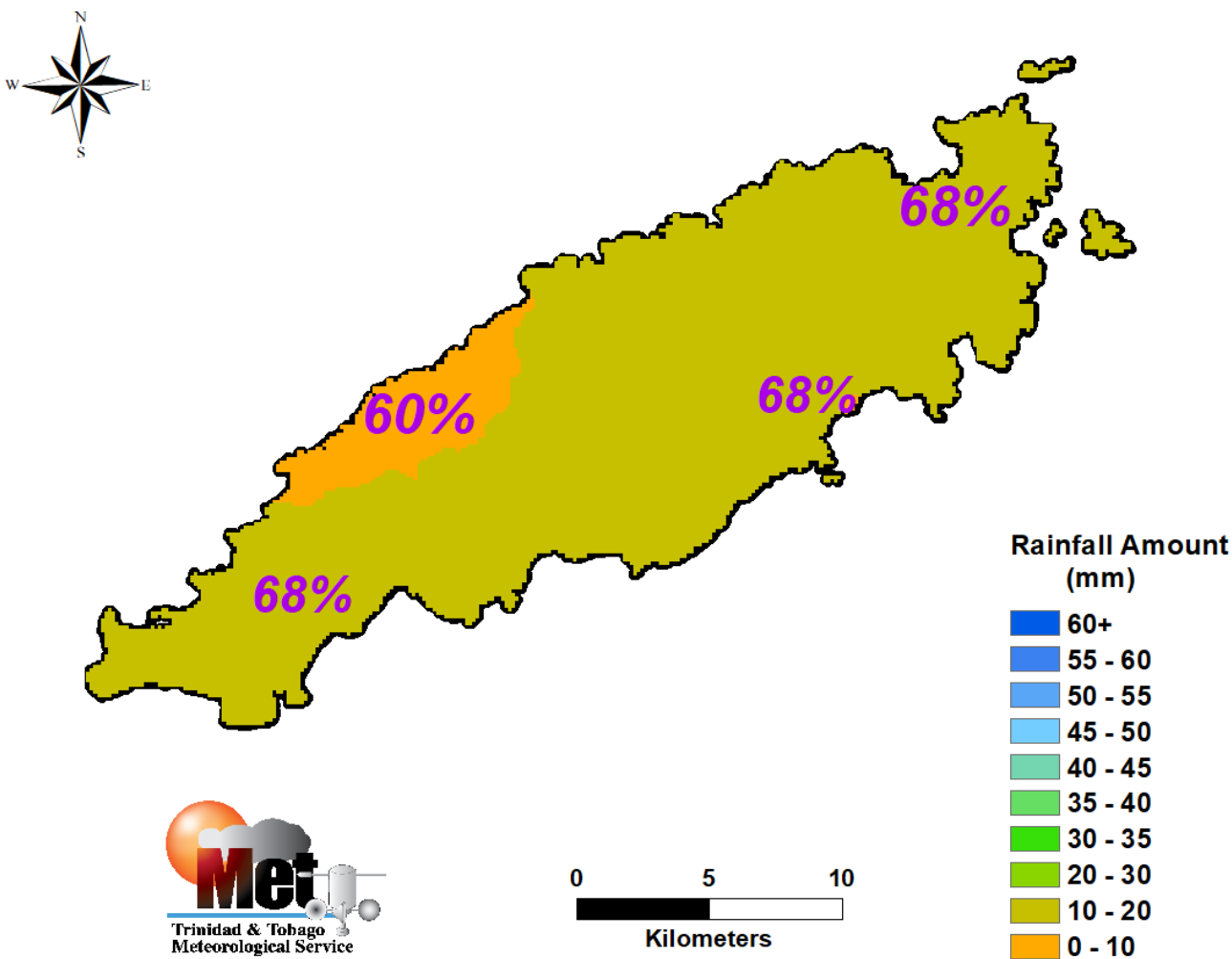


Figure 2. Rainfall Map of Tobago showing possible rainfall totals for varying districts during Second dekad of February, 2018 and percentage probability of occurrence.

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.

Temperatures:

Trinidad's Temperature Forecast for the Second Dekad of February (11th -20th) 2018.

Moderate chance (70%) of daily maximum temperatures to exceed 31.1 °C, peaking near 32.3 °C.

Moderate chance (70%) of daily minimum temperatures to be below 21.9 °C, dropping as low as 20.2 °C.

Tobago's Temperature Forecast for the Second Dekad of February (11th-20th) 2018.

Moderate chance (70%) of daily maximum temperatures to exceed 30.1 °C, peaking near 30.9 °C.

Moderate chance (70%) of daily minimum temperatures to be below 22.8 °C, dropping as low as 21.5 °C.

Summary:

The outlook for the second dekad of February calls for relatively dry to relatively wet conditions throughout the dekad. Overall, temperatures are expected to be cool with average temperatures ranging between 25.8 °C and 27.0 °C in both islands. The highest maximum temperatures are likely to reach 32.3 °C in Trinidad and 30.9 °C in Tobago. While, the lowest minimum temperatures are likely to reach 20.2 °C in Trinidad and 21.5 °C in Tobago. The dry season has started and drier conditions are expected, and to continue into the next two months of March and April, opportunities for water harvesting are diminishing, hence any opportunity to harvest and store rainwater should be undertaken, while irrigation processes continue.

Disclaimer

This information is provided with the understanding that the Trinidad and Tobago Meteorological Service makes no warranties, either expressed or implied, concerning the accuracy, completeness, reliability, or suitability of the forecast or outlook contained in this document. The information may be used freely by the public with appropriate acknowledgement of its source, but shall not be modified in content and then presented as original material.