

## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st - 10th) of March, 2021

### 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 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 period (21<sup>st</sup> -28<sup>th</sup>) of February 2021.

During the period 21<sup>st</sup> to 28<sup>th</sup> of February, mostly relatively wet days occurred over Trinidad and Tobago. These relatively wet days that occurred, were due to cloudiness and rainfall associated with convergence bands of clouds and localize effects. Rainfall totals' maps for the period 21<sup>st</sup> to 28<sup>th</sup> of February are located below as figure 1 and figure 2.

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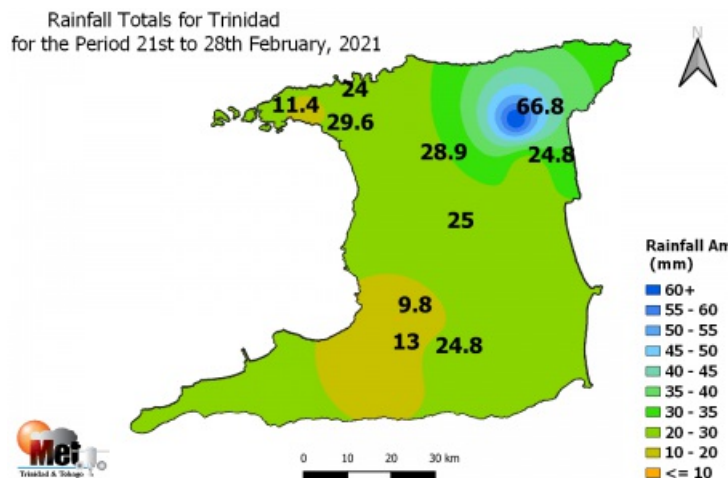


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 21<sup>st</sup> to 28<sup>th</sup> of February 2021.

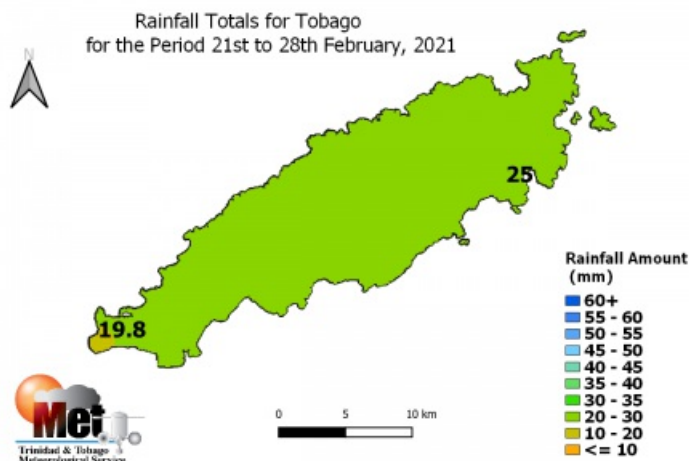


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 21<sup>st</sup> to 28<sup>th</sup> of February 2021.

The observed temperatures (maximum/minimum), average relative humidity (maximum/minimum) and long-term 10-day (10dys) averages for Piarco International Airport and ANR Robinson International Airport during third dekad of February 2021.

	Maximum	Minimum		
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Location	Temperature °C/ Long term 10 dys average °C	Temperature °C /Long term 10 dys average °C	Average maximum Relative humidity (%)/ Long term 10 dys average (%)	Average minimum Relative humidity (%)/Long term 10 dys average (%)
Trinidad (Piarco International airport)	31.4/31.2 (1981-2010)	21.3/21.9 (1981-2010)	83/88 (1990-2010)	73/64 (1990-2010)
Tobago (ANR Robinson International airport)	31.0/30.0 (1981-2010)	22.4/22.9 (1981-2010)	78/95 (1990-2010)	68/63 (1990-2010)

Table 1 shows the expected weather conditions during the first Dekad (1<sup>st</sup> - 10<sup>th</sup>) of March 2021, for Trinidad and Tobago.

Table 1.

Days:	Expected weather:
1 <sup>st</sup>	Intermittent cloudy patches with a low probability (20%) of a shower.
2 <sup>nd</sup>	Intermittent cloudy patches with a moderate probability (40%) of showers.
3 <sup>rd</sup>	Intermittent cloudy patches with a moderate probability (45%) of showers.
4 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (55%) of showers.
5 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (65%) of showers.
6 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (40%) of showers.
7 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (30%) of showers.

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8 <sup>th</sup>	Intermittent cloudy patches with a low probability (20%) of a shower.
9 <sup>th</sup>	Intermittent cloudy patches with a low probability (20%) of a shower.
10 <sup>th</sup>	Intermittent cloudy patches with a low probability (20%) of a shower.

Table 2 shows the expected temperatures, humidity and dust haze days during the first Dekad of March 2021 for Piarcro, T rinidad.

**Table 2.**

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
1 <sup>st</sup>	31.5	22.0	72	Yes
2 <sup>nd</sup>	31.4	22.0	75	Yes
3 <sup>rd</sup>	31.4	22.0	75	Yes
4 <sup>th</sup>	31.0	22.0	78	No
5 <sup>th</sup>	31.0	21.0	82	No
6 <sup>th</sup>	31.4	22.0	75	Yes
7 <sup>th</sup>	31.4	22.0	75	Yes
8 <sup>th</sup>	31.8	21.0	70	Yes
9 <sup>th</sup>	31.8	21.0	70	Yes
10 <sup>th</sup>	31.8	21.0	70	Yes

Table 3 shows the expected temperatures, humidity and dust haze days during the first Dekad of March 2021 for the ANR Robinson, Tobago.

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**Table 3**

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
1 <sup>st</sup>	31.0	22.4	72	Yes
2 <sup>nd</sup>	31.4	22.8	75	Yes
3 <sup>rd</sup>	31.4	22.8	75	Yes
4 <sup>th</sup>	31.0	23.5	78	Yes
5 <sup>th</sup>	31.0	23.5	82	No
6 <sup>th</sup>	31.4	22.5	75	Yes
7 <sup>th</sup>	31.4	22.8	75	Yes
8 <sup>th</sup>	31.5	22.4	70	Yes
9 <sup>th</sup>	31.5	22.4	70	Yes
10 <sup>th</sup>	31.5	22.4	70	Yes

**Trinidad's Mean Daily Rainfall Forecast for the first Dekad of March (1<sup>st</sup> -10<sup>th</sup>) 2021.**

**Northern & Northwestern areas:**

Moderate chance (65%) of mean daily rainfall up to 2.3 mm.

**North-Eastern and Eastern areas:**

Moderate chance (68%) of mean daily rainfall up to 2.7 mm.

**Central, West-Central and inland areas:**

Moderate chance (65%) of mean daily rainfall up to 2.0 mm.

**South-Eastern areas:**

Moderate chance (68%) of mean daily rainfall up to 2.9 mm.

**Southern areas:**

Moderate chance (68%) of mean daily rainfall up to 2.8 mm.

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### South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 2.7 mm.

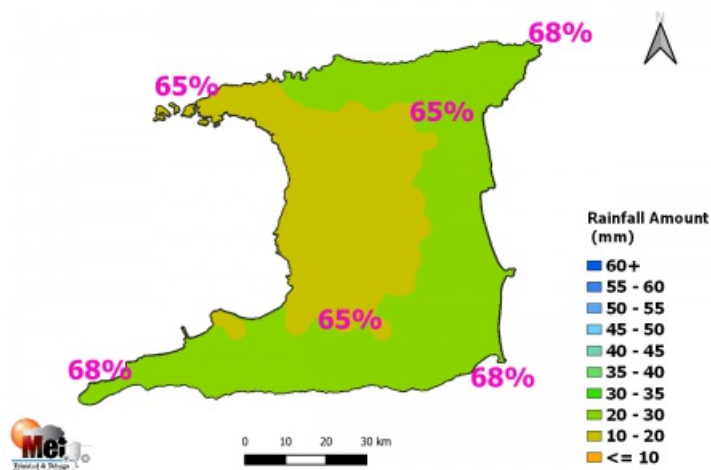


Figure 3. Rainfall map of Trinidad showing possible rainfall totals for varying districts during the first dekad of March 2021 and percentage probability of occurrence.

Tobago's Mean Daily Rainfall Forecast for the first Dekad of March (1<sup>st</sup> -10<sup>th</sup>) 2021.

### Northeastern areas:

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

### South-Western areas:

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

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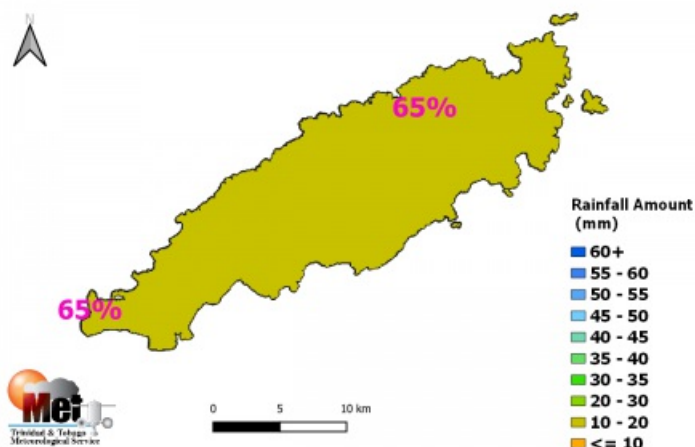


Figure 4. Rainfall map of Tobago showing possible rainfall totals for varying districts during the first dekad of March 2021 and percentage probability of occurrence.

## Impacts on Agriculture:

During the first dekad of March 2021, relatively wet days are expected on the 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> and relatively dry days on the 1<sup>st</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup>. There is a moderate (70%) probability that evaporation rates may range between 2.2 mm/day and 8.5 mm/day in Trinidad and between 5.2 mm/day and 8.5 mm/day in Tobago. There is a moderate (30%) probability that the anticipated rainfall will return sufficient soil moisture across Trinidad and Tobago. Therefore, some irrigation measures will be needed at times to maintain optimal soil moisture across crop fields and pastures. Shrubs and grass-growth will continue at a slow pace. Additionally, with increasing average temperatures at this time and seldom-moist vegetation, there is a moderate (35%) probability for fungi spread, insect pests and warm weather diseases to develop.

## Sun and Moon positions in the sky:

The sun is presently at a latitude of approximately 7.75 degrees South, and with this position, the day-length will be 11.9 hours. There is moderate probability (40%) of intense solar radiation during this first dekad of March, when the sky is generally cloud free. There is also moderate probability (35%) of heat stress on a variety of plant seedlings and young/sick/elderly animals from direct exposure to solar radiation, high temperatures with occasional calm winds. Additionally, the third quarter moon phase will be on the 5<sup>th</sup> of March. As a result, there will be high to medium moon illumination over crop fields and livestock at night during the dekad.

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## Summary

During the first dekad of March 2021, relatively wet days are expected on the 2nd, 3rd, 4th, 5th, 6th, 7th and relatively dry days on the 1st, 8th, 9th and 10th. On relatively wet days expect intermittent cloudy periods with a moderate probability range (30% to 65%) of showers. While on relatively dry days, expect few cloudy periods with low probability (20%) a shower.

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