

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st - 10th) of February, 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 (21st-30th) of January 2021.

During the period 21st to 30th of January, mostly relatively dry days occurred over Trinidad and Tobago, with the exception of the 22nd, 23rd, and 28th; where few areas in Trinidad had experienced relative wet days. These relatively wet days were due to cloudiness and rainfall associated with convergence bands and localize effects. Rainfall totals' maps for the period 21st to 30th of January are located below as figure 1 and figure 2.

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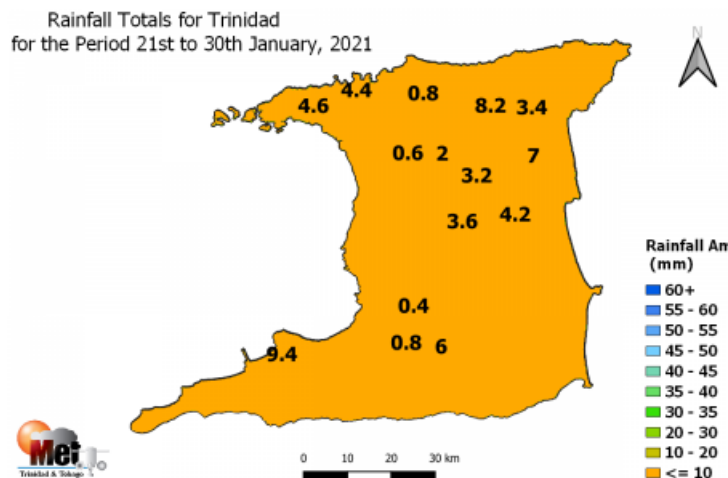


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 21st to 30th of January 2021.

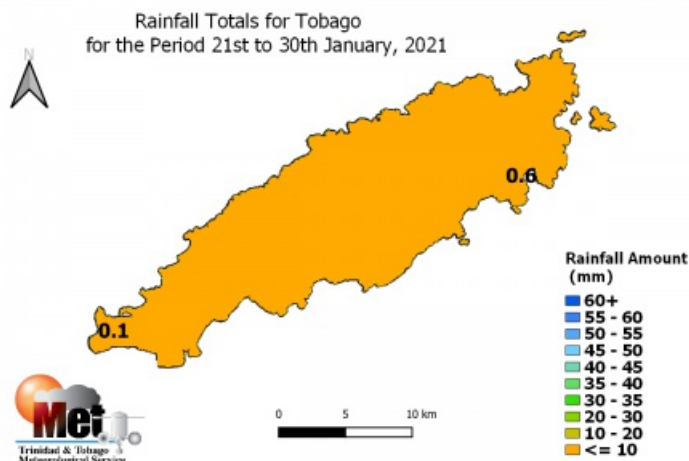


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 21st to 30th of January 2021.

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 January 2021.

	Maximum Temperature	Minimum Temperature	Average maximum Relative humidity	Average minimum Relative humidity
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Location	^o C/ Long term 10 dys average ^o C	^o C /Long term 10 dys average ^o C	(%)/ Long term 10 dys average (%)	(%)/Long term 10 dys average (%)
Trinidad (Piarco International airport)	33.2/30.9 (1981-2010)	20.9/21.4 (1981-2010)	77/93 (1990-2010)	59/67 (1990-2010)
Tobago (ANR Robinson International airport)	32.3/29.9 (1981-2010)	22.6/22.7 (1981-2010)	75/94 (1990-2010)	65/61 (1990-2010)

Table 1 shows the expected weather conditions during the First Dekad (1st - 10th) of February 2021, for Trinidad and Tobago.

Table 1.

Days:	Expected weather:
1 st	Intermittent cloudy patches with a low probability (25%) of showers.
2 nd	Intermittent cloudy patches with a low probability (25%) of showers.
3 rd	Intermittent cloudy patches with a low probability (40%) of showers.
4 th	Intermittent cloudy patches with a moderate probability (65%) of showers.
5 th	Intermittent cloudy patches with a low probability (40%) of showers.
6 th	Intermittent cloudy patches with a low probability (40%) of showers.
7 th	Intermittent cloudy patches with a low probability (25%) of showers.
8 th	Intermittent cloudy patches with a moderate probability (45%) of showers.

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9 th	Intermittent cloudy patches with a moderate probability (55%) of showers.
10 th	Intermittent cloudy patches with a moderate probability (45%) of showers.

Table 2 shows the expected temperatures, humidity and dust haze days during the first Dekad of February 2021 for Piarco, Trinidad.

Table 2.

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
1 st	32.7	22.0	78	Yes
2 nd	32.7	22.0	72	Yes
3 rd	32.0	21.0	75	Yes
4 th	31.5	22.5	85	No
5 th	32.0	20.5	75	Yes
6 th	32.0	21.0	75	Yes
7 th	33.0	20.0	76	Yes
8 th	33.0	20.0	78	Yes
9 th	32.7	21.0	78	Yes
10 th	32.7	22.0	78	Yes

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

Table 3

Day	Maximum Temperature	Minimum Temperature	Average Relative	Dust Haze
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	°C	°C	humidity (%)	Yes/No
1 st	32.7	22.7	78	Yes
2 nd	32.7	22.7	72	Yes
3 rd	32.0	22.7	75	Yes
4 th	31.5	23.5	85	No
5 th	32.0	23.0	75	Yes
6 th	32.0	23.0	75	Yes
7 th	33.0	22.7	76	Yes
8 th	32.7	22.5	78	Yes
9 th	32.7	22.5	78	Yes
10 th	32.7	23.0	78	Yes

Trinidad's Mean Daily Rainfall Forecast for the first Dekad of February (1st -10th) 2021.

Northern & Northwestern areas:

Moderate chance (60%) of mean daily rainfall up to 1.0 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 1.8 mm.

Central, West-Central and inland areas:

Moderate chance (60%) of mean daily rainfall up to 1.3 mm.

South-Eastern areas:

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

Southern areas:

Moderate chance (68%) of mean daily rainfall up to 1.9 mm.

South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 1.8 mm.

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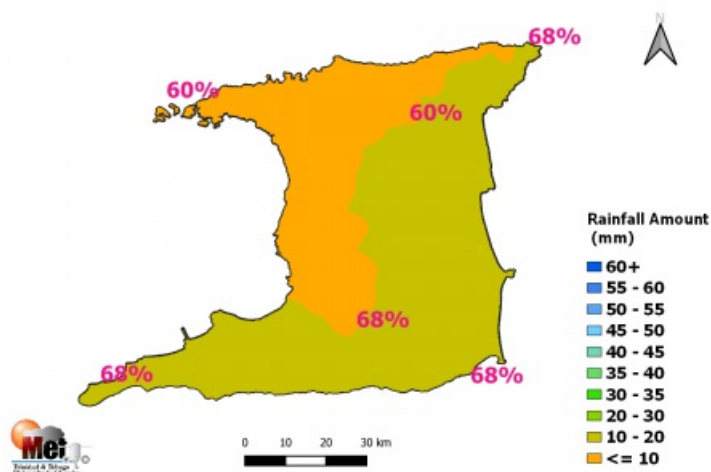


Figure 3. Rainfall map of Trinidad showing possible rainfall totals for varying districts during the first dekad of February 2021 and percentage probability of occurrence.

Tobago's Mean Daily Rainfall Forecast for the first Dekad of February (1st -10th) 2021.

Northeastern areas:

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

South-Western areas:

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

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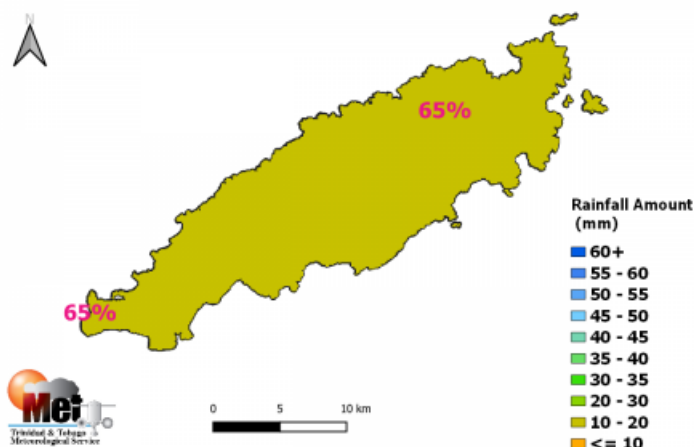


Figure 4. Rainfall map of Tobago showing possible rainfall totals for varying districts during the first dekad of February 2021 and percentage probability of occurrence.

Impacts on Agriculture:

During the first dekad of February 2021, relatively dry days are expected on the 1st, 2nd and 7th; while relatively wet days are expected on the 3rd, 4th, 5th, 6th, 8th, 9th and 10th. There is a low (25%) probability that the anticipated rainfall will return sufficient soil moisture across Trinidad and Tobago. The expected rainfall events may result in rivers being at low levels. There is a low (20%) probability that some areas will become water-logged especially in low-lying areas during the dekad. Shrubs and grass-growth will continue at a slow pace. Additionally, with low average temperatures at this time and seldom-moist vegetation, there is a low (25%) 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 17.5 degrees South, and with this position, the day-length will be 11.5 hours. There is moderate probability (30%) of intense solar radiation during this first dekad of February, when the sky is generally cloud free. There is also low probability (25%) 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 moon's third quarter moon phase will be on the 4th of February. As a result, there will be medium to low moon illumination over crop fields and livestock at night during the dekad.

Summary

During the first dekad of February 2021, relatively dry days are expected on the 1st, 2nd and 7th; while relatively wet days are expected on the 3rd, 4th, 5th, 6th, 8th, 9th and 10th. On relatively dry days expect intermittent cloudy patches with a low probability (25%) of showers and on relatively wet days expect intermittent cloudy periods with a moderate

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probability range (40% to 65%) of showers.

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