

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) of May, 2020

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 (1st-8th) of May 2020.

During the 1st to 8th of May, mostly relatively dry days occurred in both Trinidad and Tobago. Rainfall total maps for the period 1st to 8th of May are located below as figure 1 and figure 2.

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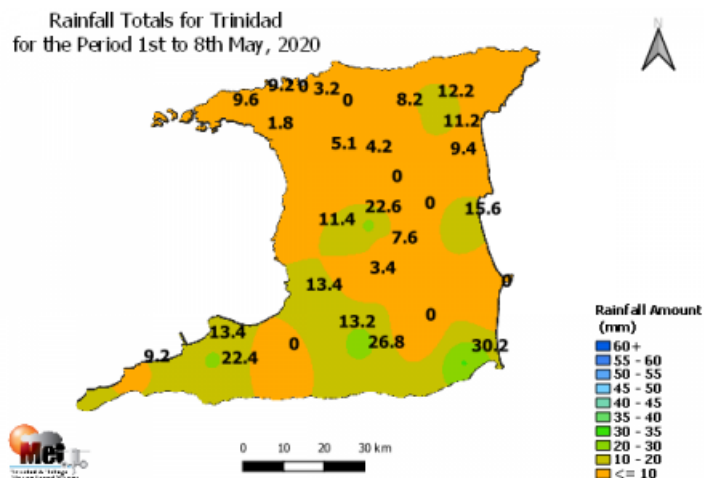


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 8th of May 2020.

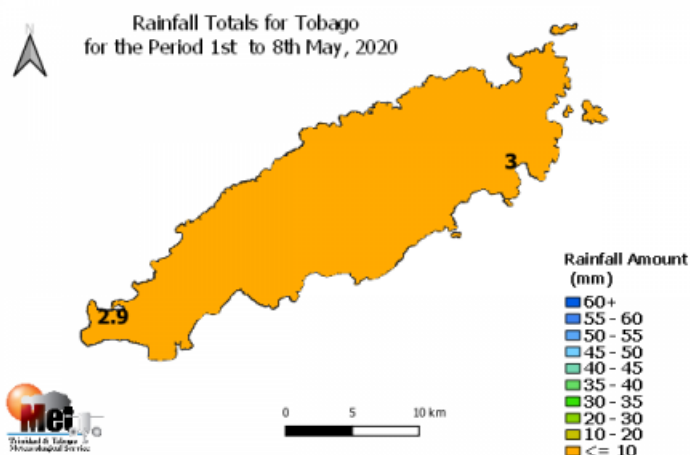


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 8th of May 2020.

The observed Temperatures (maximum/minimum), Average Relative humidity (maximum/minimum) and Long term 10 days (10dys) averages for locations: Piarco International airport and ANR Robinson International airport.

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Location	Maximum Temperature °C/ Long term 10 dys average °C	Minimum 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)	33.7/32.6 (1981-2010)	22.8/23.9 (1981-2010)	83/94 (1990-2010)	66/64 (1990-2010)
Tobago (ANR Robinson International airport)	32.2/31.4 (1981-2010)	23.5/24.7 (1981-2010)	76/90 (1990-2010)	68/60 (1990-2010)

The Expected Weather conditions during the Second Dekad (11th–20th) of May 2020, for Trinidad and Tobago, as seen in table 1.

Table 1.

Days:	Expected weather:
11 th	Few cloudy patches with a low probability (20%) of a brief shower.
12 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
13 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
14 th	Few cloudy patches with a low probability (20%) of a brief shower.
15 th	Few cloudy patches with a low probability (20%) of a brief shower.
16 th	Few cloudy patches with a low probability (20%) of a brief shower.

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17 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
18 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
19 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
20 th	Cloudy periods with a moderate probability (68%) of light to moderate showers.

The expected Temperatures, Humidity and Dust haze days during the Second dekad of May for Piarco, Trinidad as seen in table 2.

Table 2.

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
11 th	33.5	23.0	75	Yes
12 th	33.0	23.5	80	No
13 th	33.0	23.5	80	No
14 th	33.5	23.0	67	Yes
15 th	33.5	23.0	66	Yes
16 th	33.5	23.0	66	Yes
17 th	33.0	23.5	80	No
18 th	33.0	23.5	80	No
19 th	33.0	23.5	85	No
20 th	33.0	23.5	89	No

The expected Temperatures, Humidity and Dust haze days during the Second dekad of May for ANR Robinson, Tobago as seen in table 3.

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Table 3

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
11 th	32.7	23.0	75	Yes
12 th	32.2	23.5	80	No
13 th	32.2	23.7	80	No
14 th	32.7	23.0	68	Yes
15 th	32.7	23.0	68	Yes
16 th	32.7	23.0	68	Yes
17 th	32.2	23.0	68	No
18 th	32.0	23.0	68	No
19 th	32.2	23.7	80	No
20 th	32.2	23.7	83	No

Trinidad's Mean Daily Rainfall Forecast for the Second Dekad of May (11th-20th) 2020.

Northern & Northwestern areas:

Moderate chance (60%) of mean daily rainfall up to 1.8 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 4.0 mm.

Central, West-Central and inland areas:

Moderate chance (60%) of mean daily rainfall up to 1.7 mm.

South-Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 4.0 mm.

Southern areas:

Moderate chance (68%) of mean daily rainfall up to 3.7 mm.

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South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 3.6 mm.

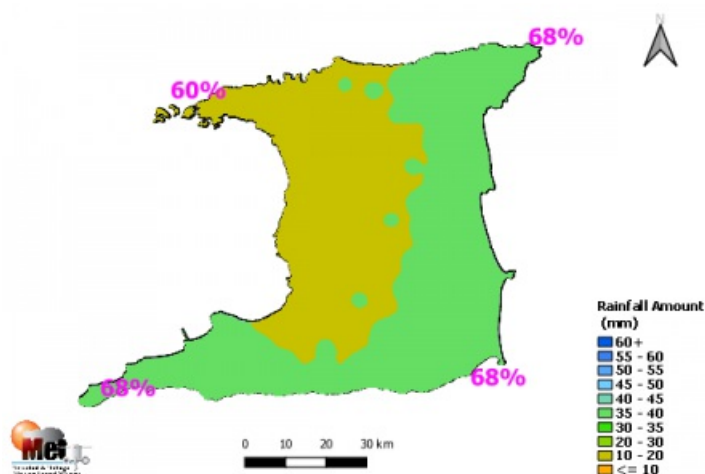


Figure 3. Rainfall map of Trinidad showing possible rainfall totals for varying districts during second dekad of May 2020 and percentage probability of occurrence.

Tobago's Mean Daily Rainfall Forecast for the Second Dekad of May (11th –20th) 2020.

Northeastern areas:

Moderate chance (68%) of mean daily rainfall up to 1.5 mm.

South-Western areas:

Moderate chance (65%) of mean daily rainfall up to 1.7 mm.

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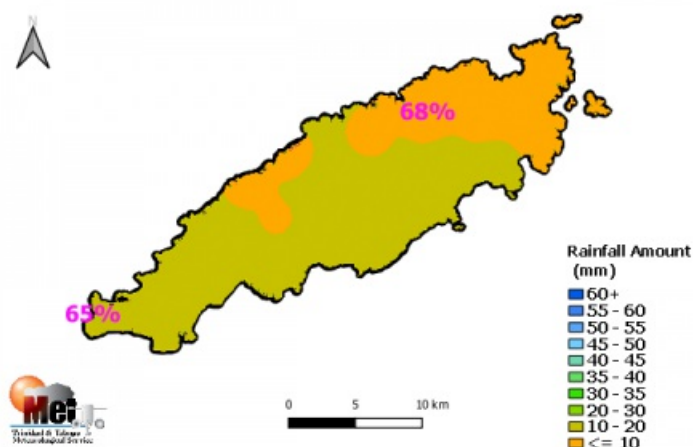


Figure 4. Rainfall map of Tobago showing possible rainfall totals for varying districts during second dekad of May 2020 and percentage probability of occurrence.

Impacts on Agriculture:

During the second dekad of May 2020, relatively dry days are expected on the 11th, 14th, 15th and 16th, relatively wet days on the 12th, 13th, 17th, 18th, 19th and a wet day on 20th. There is a moderate (55%) probability that the rainfall anticipated, will return some soil moisture across Trinidad and Tobago. Rivers will continue to be very low, shrubs and grass growth will continue at a slow pace. Additionally, with rising mean temperatures, there is a high (75%) probability of insects, pests and warm weather diseases may possibly develop.

Sun and Moon positions in the sky:

The sun is presently at latitude of approximately 17.5 degrees north latitude, and with this position, the day length for this dekad will be 12.5 hours. Trinidad and Tobago is in the heat season, there is a high probability (80%) of intense solar radiation occurring during the second dekad of May 2020, when the sky is generally cloud free. There is high probability (85%) of heat stress on variety of plant seedlings and young/sick/elderly animals from direct exposure to solar radiation and high temperatures. Additionally, the moon's third quarter phase will be on the 14th May 2020. As a result, there will be medium to low moon illumination over crop fields and livestock at night during the dekad.

Summary

During the second dekad of May 2020, expect relatively dry days on the 11th, 14th, 15th and 16th, relatively wet days on the 12th, 13th, 17th, 18th, 19th and a wet day on 20th. On relatively dry days expect few cloudy patches with a low probability (20%) of a brief shower; on relatively wet days expect intermittent cloudy patches with a moderate probability (55%) of brief showers and on wet days expect cloudy periods with a moderate probability (68%) of light to moderate showers.

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