

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) of July, 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-9th) of July 2020.

During the period 1st to 9th of July, wet days occurred on the 1st, 2nd, 5th, 6th and 7th in Trinidad and on the 7th in Tobago. These wet days were due to the passage of tropical waves (TW) and a visitation of the Inter tropical Convergence Zone (ITCZ). Reports of localized flooding in southern districts of Trinidad, such as Penal and Barrackpore. Otherwise, mostly relatively wet days occurred over Trinidad and Tobago. Rainfall totals' maps for the period 1st to 9th of July are located below as figure 1 and figure 2.

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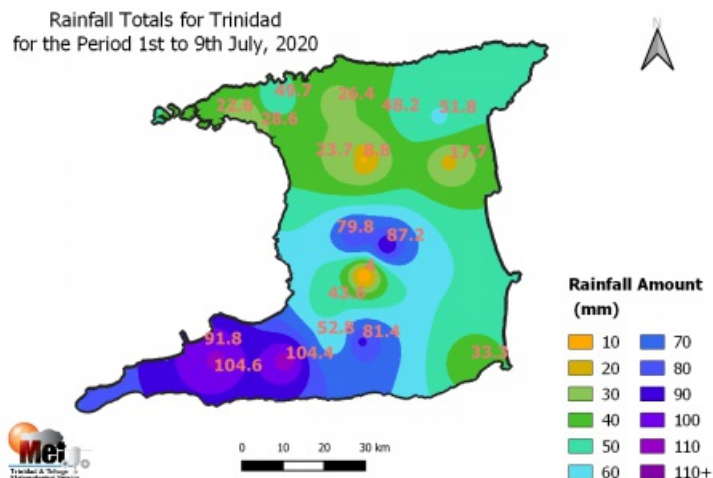


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 9th of July 2020.

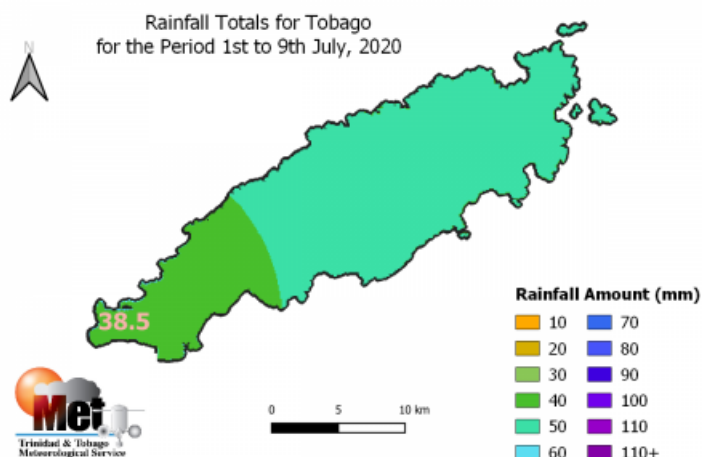


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 9th of July 2020.

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 First dekad of July 2020.

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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)	32.6/31.3 (1981-2010)	23.0/23.7 (1981-2010)	88/95 (1990-2010)	75/71 (1990-2010)
Tobago (ANR Robinson International airport)	32.8/30.4 (1981-2010)	23.0/24.4 (1981-2010)	88/93 (1990-2010)	71/67 (1990-2010)

Table 1 shows the expected weather conditions during the Second Dekad (11th –20th) of July 2020, for Trinidad and Tobago.

Table 1.

Days:	Expected weather:
11 th	Cloudy periods with a moderate probability (70%) of light to moderate showers.
12 th	Cloudy periods with a moderate probability (70%) of light to moderate showers.
13 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
14 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
15 th	Intermittent cloudy patches with a moderate probability (55%) of brief showers.
16 th	Cloudy periods with a moderate probability (70%) of light to moderate showers.
17 th	Cloudy periods with a moderate probability (70%) of light to moderate showers.

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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	Intermittent cloudy patches with a moderate probability (55%) of brief showers.

Table 2 shows the expected temperatures, humidity and dust haze days during the Second dekad of July for Piarco, Trinidad.

Table 2.

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
11 th	31.5	22.8	90	No
12 th	31.5	23.0	90	No
13 th	32.5	24.0	70	Yes
14 th	32.5	24.0	70	Yes
15 th	32.5	23.8	70	Yes
16 th	31.0	22.5	90	No
17 th	31.0	23.0	90	No
18 th	32.5	23.5	75	Yes
19 th	32.5	23.5	75	Yes
20 th	32.5	23.8	75	Yes

Table 3 shows the expected temperatures, humidity and dust haze days during the Second dekad of July for the ANR Robinson, Tobago.

Table 3

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Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
11 th	31.5	23.5	88	No
12 th	31.5	23.5	88	No
13 th	32.5	24.0	70	Yes
14 th	32.5	24.0	70	Yes
15 th	32.5	24.0	70	Yes
16 th	31.0	23.8	90	No
17 th	31.0	23.8	90	No
18 th	32.5	23.5	75	Yes
19 th	32.5	23.5	75	Yes
20 th	32.5	23.8	75	Yes

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

Northern & Northwestern areas:

Moderate chance (60%) of mean daily rainfall up to 3.5 mm.

North-Eastern and Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 7.0 mm.

Central, West-Central and inland areas:

Moderate chance (60%) of mean daily rainfall up to 3.7 mm.

South-Eastern areas:

Moderate chance (68%) of mean daily rainfall up to 7.8 mm.

Southern areas:

Moderate chance (65%) of mean daily rainfall up to 4.9 mm.

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South-Western areas:

Moderate chance (60%) of mean daily rainfall up to 3.6 mm.

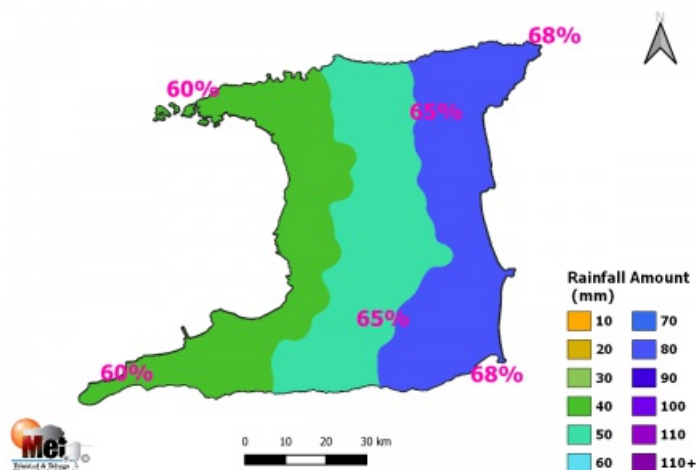


Figure 3. Rainfall map of Trinidad showing possible rainfall totals for varying districts during Second dekad of July 2020 and percentage probability of occurrence.

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

Northeastern areas:

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

South-Western areas:

Moderate chance (68%) of mean daily rainfall up to 2.3 mm.

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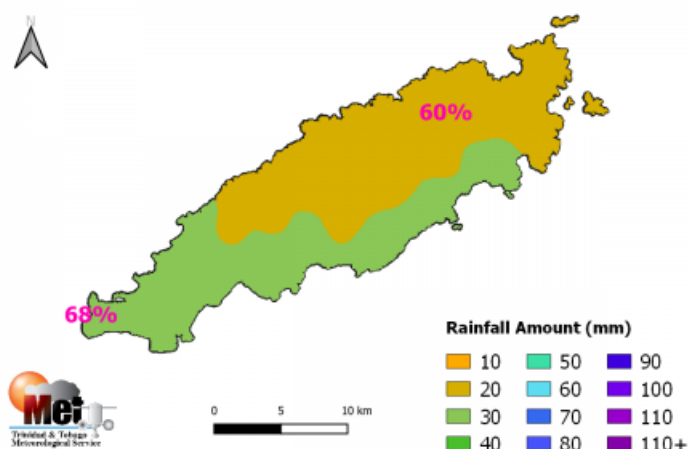


Figure 4. Rainfall map of Tobago showing possible rainfall totals for varying districts during Second dekad of July 2020 and percentage probability of occurrence.

Impacts on Agriculture:

During the second dekad of July 2020, relatively wet days are expected on the 13th, 14th, 15th, 18th, 19th and 20th; while wet days are expected on the 11th, 12th, 16th and 17th. There is a moderate (70%) probability that the anticipated rainfall will return significant soil moisture across Trinidad, but less so in Tobago. Rivers levels are likely to increase slightly during this dekad, while shrubs and grass-growth will continue at a fast pace. Additionally, with warm temperatures and routinely moist vegetation, there is a moderate (65%) probability for fungi spread, insects, pests and warm weather diseases to develop.

Sun and Moon positions in the sky:

The sun is presently at a latitude of approximately 22.25 degrees North, and with this position, the day-length will 12.6 hours. As Trinidad and Tobago is in the heat and rainy seasons, regular cloud cover is possible, consequently, there is a moderate probability (65%) of intense solar radiation occurring during the second dekad of July 2020, when the sky is generally cloud free. There is also moderate probability (65%) of heat stress on a variety of plant seedlings and young/sick/elderly animals from direct exposure to solar radiation and warm temperatures. Additionally, the third quarter moon phase will be on the 12th followed by new moon on the 20th of July 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 July 2020, relatively wet days are expected on the 13th, 14th, 15th, 18th, 19th and 20th, while wet days are expected on the 11th, 12th, 16th and 17th. 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

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(70%) of light to moderate showers.

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