

## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Third Dekad (21st - 30th) of September, 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 (11<sup>th</sup>-18<sup>th</sup>) of September 2020.

During the period 11<sup>th</sup> to 18<sup>th</sup> of September, mostly relatively wet days occurred over Trinidad and Tobago. In Trinidad, wet days occurred on the 11<sup>th</sup>, 12<sup>th</sup> and 18<sup>th</sup>; while in Tobago wet days occurred on the 15<sup>th</sup> and 17<sup>th</sup>. These wet days were due to the passage of active tropical waves enhanced by localized effects and/or the Inter Tropical Convergence Zone. Rainfall totals' maps for the period 11<sup>th</sup> to 18<sup>th</sup> of September are located below as figure 1 and figure 2.

#### 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.

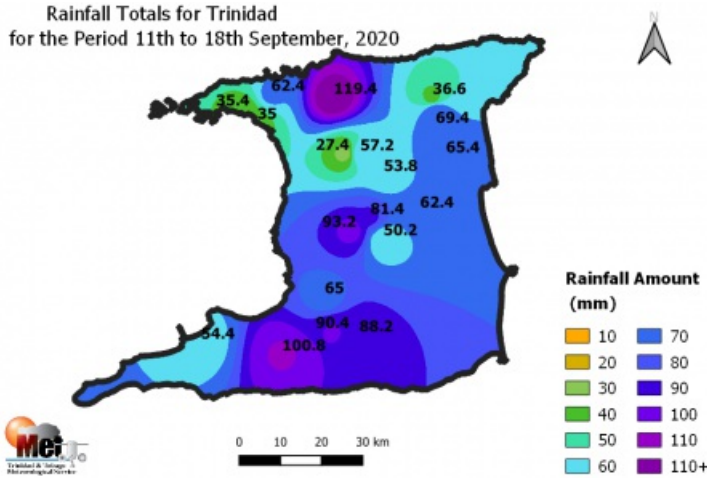


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 11<sup>th</sup> to 18<sup>th</sup> of September 2020.

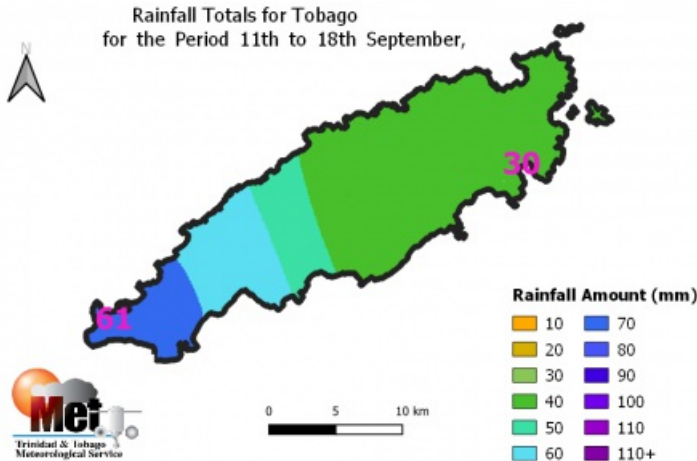


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 11<sup>th</sup> to 18<sup>th</sup> of September 2020.

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 second dekad of September 2020.

	Maximum	Minimum	
--	---------	---------	--

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.

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)	34.8/32.7 (1981-2010)	23.1/23.8 (1981-2010)	86/93 (1990-2010)	71/69 (1990-2010)
Tobago (ANR Robinson International airport)	34.0/31.3 (1981-2010)	22.8/24.7 (1981-2010)	79/92 (1990-2010)	69/66 (1990-2010)

Table 1 shows the expected weather conditions during the third Dekad (21<sup>st</sup> -30<sup>th</sup>) of September 2020, for Trinidad and Tobago.

Table 1.

Days:	Expected weather:
21 <sup>st</sup>	Intermittent cloudy patches with a moderate probability (35%) of brief showers.
22 <sup>nd</sup>	Intermittent cloudy patches with a moderate probability (35%) of brief showers.
23 <sup>rd</sup>	Intermittent cloudy patches with a moderate probability (30%) of brief showers.
24 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (30%) of brief showers.
25 <sup>th</sup>	Cloudy periods with a moderate probability (70%) of light to moderate showers.
26 <sup>th</sup>	Cloudy periods with a moderate probability (70%) of light to moderate showers.
27 <sup>th</sup>	Intermittent cloudy patches with a moderate probability (60%) of showers.

**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.

28 <sup>th</sup>	Cloudy periods with a moderate probability (70%) of light to moderate showers.
29 <sup>th</sup>	Cloudy periods with a moderate probability (70%) of light to moderate showers.
30 <sup>th</sup>	Cloudy periods with a moderate probability (70%) of light to moderate showers.

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

**Table 2.**

Day	Maximum Temperature °C	Minimum Temperature °C	Average Relative humidity (%)	Dust Haze Yes/No
21 <sup>st</sup>	34.0	23.0	65	Yes
22 <sup>nd</sup>	34.0	23.0	65	Yes
23 <sup>rd</sup>	34.0	23.0	65	Yes
24 <sup>th</sup>	35.0	23.0	65	Yes
25 <sup>th</sup>	31.0	22.7	85	No
26 <sup>th</sup>	32.0	22.7	85	No
27 <sup>th</sup>	34.0	23.5	80	Yes
28 <sup>th</sup>	32.0	23.0	85	No
29 <sup>th</sup>	31.0	23.0	85	No
30 <sup>th</sup>	32.0	23.0	85	No

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

**Table 3**

	Maximum	Minimum	Average Relative	
--	---------	---------	------------------	--

**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.

Day	Temperature °C	Temperature °C	humidity (%)	Dust Haze Yes/No
21 <sup>st</sup>	33.0	23.0	68	Yes
22 <sup>nd</sup>	33.0	23.0	68	Yes
23 <sup>rd</sup>	33.0	23.0	68	Yes
24 <sup>th</sup>	34.0	22.5	65	Yes
25 <sup>th</sup>	31.0	22.7	82	No
26 <sup>th</sup>	32.0	22.7	80	No
27 <sup>th</sup>	33.0	23.5	78	Yes
28 <sup>th</sup>	32.0	23.5	82	No
29 <sup>th</sup>	31.0	23.0	82	No
30 <sup>th</sup>	32.0	23.0	82	No

**Trinidad's Mean Daily Rainfall Forecast for the Third Dekad of September (21<sup>st</sup> -30<sup>th</sup>) 2020.**

**Northern & Northwestern areas:**

Moderate chance (65%) of mean daily rainfall up to 6.8 mm.

**North-Eastern and Eastern areas:**

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

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

Moderate chance (65%) of mean daily rainfall up to 6.9 mm.

**South-Eastern areas:**

Moderate chance (68%) of mean daily rainfall up to 10.0 mm.

**Southern areas:**

Moderate chance (65%) of mean daily rainfall up to 7.6 mm.

**South-Western areas:**

**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.

Moderate chance (65%) of mean daily rainfall up to 6.5 mm.

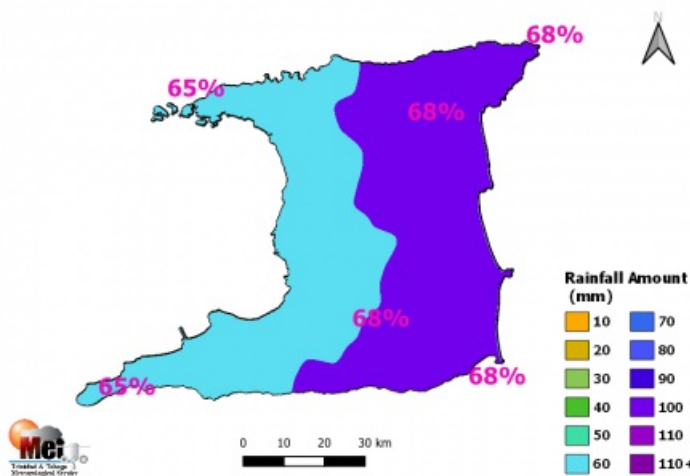


Figure 3. Rainfall map of Trinidad showing possible rainfall totals for varying districts during the third dekad of September 2020 and percentage probability of occurrence.

Tobago's Mean Daily Rainfall Forecast for the Third Dekad of September (21<sup>st</sup>-30<sup>th</sup>) 2020.

**Northeastern areas:**

Moderate chance (68%) of mean daily rainfall up to 8.2 mm.

**South-Western areas:**

Moderate chance (65%) of mean daily rainfall up to 10.0 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.

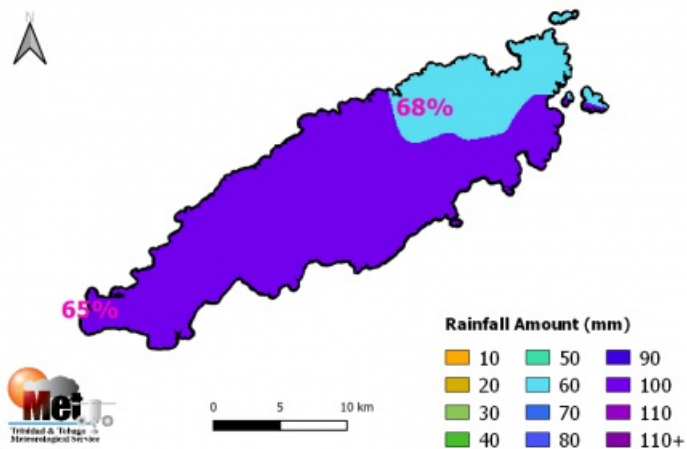


Figure 4. Rainfall map of Tobago showing possible rainfall totals for varying districts during the third dekad of September 2020 and percentage probability of occurrence.

#### Impacts on Agriculture:

During the third dekad of September 2020, relatively wet days are expected on the 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 27<sup>th</sup>; while wet days are expected on the 25<sup>th</sup>, 26<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup> and 30<sup>th</sup>. There is a moderate (65%) probability that the anticipated rainfall will return sufficient soil moisture across Trinidad and Tobago. Due to the rainfall episodes of the last four consecutive dekads, river levels are likely to remain moderate, water logged soils and pooling of water in low-lying areas are moderately probable but will evaporate eventually during the course of the dekad. Shrubs- and grass-growth will continue at a moderate pace. Additionally, with warm average temperatures at this time and occasional moist vegetation, there is a moderate (60%) 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 1.0 degrees North, and with this position, the day-length will 11.9 hours. There is moderate probability (60%) of intense solar radiation during this third dekad of September, when the sky is generally cloud free. There is also moderate probability (60%) 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 first quarter phase will be on the 23<sup>rd</sup>. As a result, there will be medium to high moon illumination over crop fields and livestock at night during the dekad.

#### Summary

During the third dekad of September 2020, relatively wet days are expected on the 21<sup>st</sup>, 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> and 27<sup>th</sup>; while wet days are expected on the 25<sup>th</sup>, 26<sup>th</sup>, 28<sup>th</sup>, 29<sup>th</sup> and 30<sup>th</sup>. On relatively wet days expect intermittent cloudy patches with a moderate probability (30%-60%) of showers, while on wet days expect cloudy periods with a moderate

#### 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.



# TRINIDAD AND TOBAGO METEOROLOGICAL SERVICE

Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727  
Email: [synop@metoffice.gov.tt](mailto:synop@metoffice.gov.tt) Website: [www.metoffice.gov.tt](http://www.metoffice.gov.tt)

F750.04.05

Page 8 of 8

---

probability of 70% of light to moderate showers.

### 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.

Issue date: 2020-09-20