

Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

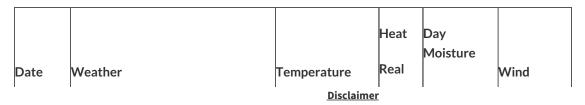
Page 1 of 10

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) of February, 2023

Definitions used in the forecast and bulletin:

Term		Meaning				
Dekad		10 day rainfall measuring period				
		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 Rainfa	II	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 Bulletin for Farmers and Livestock Producers of Trinidad and Tobago for the 15-day period 11th February – 25th February 2023.





Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 2 of 10

60% chance of rainfall isfew showers possible Less than 15.0 mm Partly to cloudy with rainfall isfew showers possible Warm Warm Warm Less than 10.0 mm Partly to cloudy with rainfall isfew showers possible Less than 10.0 mm Partly to cloudy with rainfall isfew showers possible Warm Max/Min 32- Temperatures o C 29.0/22.0 Warm Warm Moderate easterly 15 km/h Gust 30 km/h Warm Warm Moderate easterly 20 km/h Gust 35 km/h Warm Less than 10.0 mm Partly cloudy with of showers possible Less than 10.0 mm Partly cloudy with of showers possible Warm Warm Moderate easterly 20 km/h Gust 35 km/h Warm Moderate easterly 20 km/h Gust 35 km/h						Feel	(Relative) (Humidity)	
Less than 15.0 mm Partly to of showers possible Less than 15.0 mm Partly to of cloudy with rainfall isfew showers possible Less than 10.0 mm Partly conditions and the cloudy with rainfall isfew showers possible Less than 10.0 mm Partly conditions and the cloudy with of showers possible Less than 10.0 mm Partly cloudy with one or rainfall is possible Less than 10.0 mm Partly conditions and the cloudy with one or rainfall is possible Less than 10.0 mm Partly conditions and the cloudy with one or rainfall is possible Warm Moderate easterly Max/Min 32- Temperatures of 34°C Warm Moderate easterly 20 km/h Gust 35 km/h Moderate easterly 15 km/h Gust Temperatures 34°C Gust 32- Temperatures 34°C Gust 15 km/h Gust Temperatures 34°C	11 th	60% chance	10.0 mm of rainfall is	Partly cloudy with	Max/Min Temperatures	like 32-	55-95%	Moderate easterly 15 km/h Gust
Less than 10.0 mm Partly cloudy with one or of showers	12 th	of showers	15.0 mm of rainfall is	Partly to cloudy with	Max/Min Temperatures	like 32-	60-95%	Moderate easterly 15 km/h Gust
Less than 10.0 mm cloudiness with one or of showers possible possi	13 th	40% chance	10.0 mm of rainfall is	Partly cloudy with	Max/Min Temperatures	like 32-	65-90%	Moderate easterly 20 km/h Gust
	14 th	40% chance	of rainfall is	Patchy cloudiness with one or	Max/Min Temperatures	like 32-	65-90%	Moderate easterly 15 km/h Gust



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 3 of 10

15 th	40% chance of showers	of rainfall is	Patchy	Max/Min Temperatures °C 31.0/23.0	Feels like 32- 35°C	65-90%	Moderate easterly 15 km/h Gust 25 km/h
16 th	30% chance of showers	of rainfall is	Patchy cloudiness with one or	Max/Min Temperatures °C 31.0/21.0	Feels like 32- 35°C	65-90%	Moderate north- easterly 15 km/h Gust 25km/hr
17 th	30% chance of showers	of rainfall is	lPatchy	Max/Min Temperatures °C 31.0/22.0	Feels like 32- 35°C	55-90%	Moderate north- easterly 15 km/h Gust 30 km/h
18 th	30% chance	rainfall is		Warm Max/Min Temperatures °C 31.0/21.0	Feels like 32- 35°C	55-85%	Moderate north- easterly 10 km/h Gust 25 km/h
				Warm Disclaimer			** *



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 4 of 10

19 th	30% chance	rainfall is	Patchy cloudiness with isolated showers	Max/Min Temperatures °C 31.0/21.0	Feels like 32- 35°C	60-85%	Moderate north- easterly 10 km/h Gust 25 km/h
20 th			cloudiness with isolated		Feels like 32- 35°C	50-85%	Moderate north- easterly 15 km/h Gust 30 km/h
21 st	20% chance of showers	Less than 1.0 mm of rainfall is possible	Mostly	Max/Min Temperatures °C 32.0/22.0	Feels like 33- 35°C	50-80%	Moderate north- easterly 15 km/h Gust 25 km/h
22 nd	20% chance of showers	Less than 1.0 mm of rainfall is possible	Mostly		Feels like 33- 35°C	50-80%	Moderate easterly 10 km/h Gust 20 km/h
				Warm Disclaimer			《《 Moderate



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 5 of 10

23 rd	20% chance of showers	Less than 1.0 mm of rainfall is possible	unny				easterly 15 km/h Gust 25 km/h
24 th	20% chance of showers	Less than 1.0 mm of N rainfall iss possible	Aostly unny	Max/Min	like	45-80%	Moderate easterly 15 km/h Gust 25 km/h
25 th	20% chance of showers	Less than 1.0 mm of N rainfall iss possible	Aostly unny	Max/Min	Feels like 33- 35°C		Moderate easterly 15 km/h Gust 25 km/h

Trinidad Rainfall Forecast for the 15-Day period of February 11th to February 25th 2023.

Disclaimer

Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 6 of 10

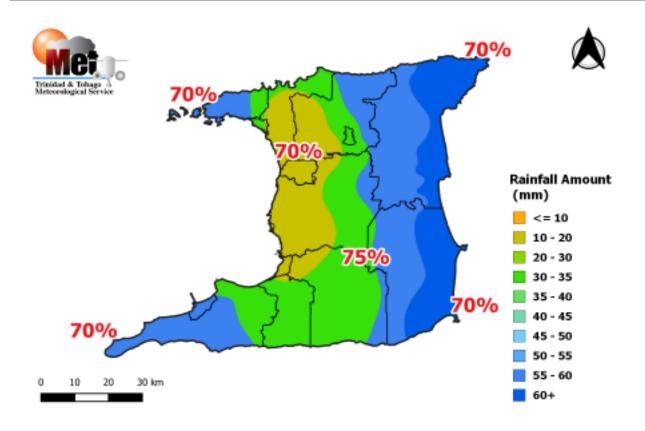


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period February 11th to February 25th 2023 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 6.5 mm.

South-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 7.5 mm.

Southern areas

High chance (70%) of mean daily rainfall up to 5.3 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 4.9 mm.

Disclaimer



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 7 of 10

Central, West-Central, and inland areas

High chance (70%) of mean daily rainfall up to 2.0 mm.

Northern, North-Western areas

High chance (70%) of mean daily rainfall up to 3.6 mm.

Tobago Rainfall Forecast for the 15-Day period of February 11th to February 25th 2023.

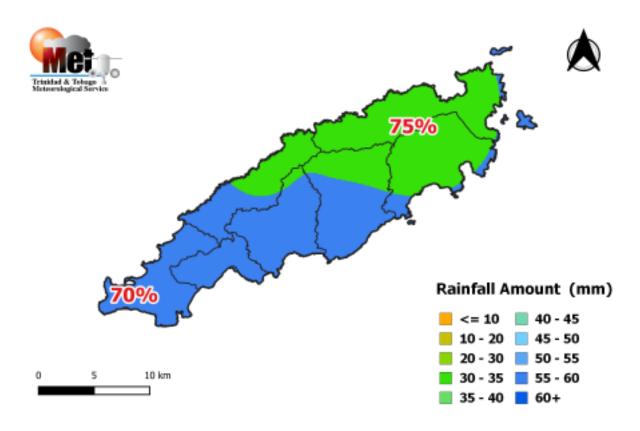


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period February 11th to February 25th 2023 and percentage probability of occurrence.

Disclaimer



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 8 of 10

North-Eastern areas

Moderate chance (75%) of mean daily rainfall up to 3.0 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 5.1 mm.

Sun and Moon Positions in the Sky February 11th to February 25th 2023.

The sun is presently at 13.3 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from February 11 th will be 11 hours and 46 minutes, rising slightly to 11 hours and 53 minutes by 25th February 2023. According to the moon's phases, the last quarter is on 13th February 2023 at 12:00 hrs (12:00 p.m.), new moon on 20th February 2023 at 03:05 hrs (3:05 a.m.), first quarter 27th February 2023 at 04:05 hrs (04:05 a.m.), full moon was on 05th February at 14:28 hrs (2:28 p.m.)

Summary of Expected Weather:

Moderate rainfall amounts are expected during the 11^{th} to the 20^{th} becoming relatively dry by the 21^{st} .

Two wet days on the 11th and 12th with rainfall amounts 15mm or less. Five relatively wet days from 13th to 17th with rainfall amounts 10mm or less. Three relatively wet days from 18th to 20th with rainfall amounts 5 mm or less. Five relatively dry days with rainfall amounts 1.0mm or less are expected on the 21st to the 25th.

Trinidad and Tobago:

The daily rainfall totals are forecast generally less than 10.0 mm across different farmlands, ranging from 7.5mm in south-eastern areas of Trinidad to 3.0mm in north-eastern areas of Tobago. with fifteen-day rainfall totals ranging between 10.0 mm and 45.0 mm. Any impactful rainfall events are most likely to occur across the eastern and southeastern parts of Trinidad.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 30.0° C to 32.0° C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 32.0° C to 35.0° C on

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: 2023-02-14



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt

F750.04.05

Page 9 of 10

most days. The minimum temperatures will range between 21.0°C to 23.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

Mostly moderate easterly to north-easterly winds of an average speed of 15-25 km/h are expected, with gusts of 25-30 km/h at times. Low rainfall totals, mostly moderate wind speeds, warm days and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 6.0 to 12.0 millimeters per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be moderate to high, with average daytime relative humidity values between 45% to 90%.

Highlighted Possible Impacts on Agriculture:

During this 15-day forecast period of (21st to 25th) February 2023, expect conditions to be mixed with periods of cloudiness interrupting the sunshine at times during the day. There is a moderate probability (50%) chance for crop irrigation measures to take place due to some moisture in the soils during the forecast period. There is a low probability (20%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a low probability (20%) chance for fungi spread, root and/or fruit rot, insect pests and warm weather diseases to develop in crop beds. River levels will remain at low levels during this forecast period.

Weather Assessment for the period February 01st to February 10th 2023.

Two relatively wed days on the 4^{th} and 8^{th} of 3.3mm and 1.5mm respectively, of rainfall was recorded at Piarco station, Trinidad. The other eight days were relatively dry days with records of less than 1mm of rainfall. At Crown Point Station, Tobago, one wet day of 11.6mm on the 4^{th} and three relatively wet days on the 1^{st} , 5^{th} and 7^{th} of 3.8mm, 8.6mm and 1.2mm respectively. The other six days were relatively dry with records of less than 1mm of rainfall.

Temperatures:

Temperatures were cool to warm during the period 01^{st} – 10^{th} of February, with the minimum nighttime temperature falling to 18.8° C and the maximum daytime temperature rising to 31.0° C, in Trinidad.

Similarly, temperatures in Tobago were cool to warm during the period 01^{st} – 10^{th} of February, with the minimum nighttime temperature falling to 20.6° C and the maximum daytime temperature rising to 29.6° C.

Summary

Summary of Expected Weather:

Moderate rainfall amounts are expected during the 11th to the 20th becoming relatively dry by the 21st.

Disclaimer



Telephone: 1-868-669-4392 ext. 120/121 | Fax: 1-868-669-4727 Email: synop@metoffice.gov.tt Website: www.metoffice.gov.tt F750.04.05

Page 10 of 10

Two wet days on the 11^{th} and 12^{th} with rainfall amounts 15mm or less. Five relatively wet days from 13^{th} to 17^{th} with rainfall amounts 10mm or less. Three relatively wet days from 18^{th} to 20^{th} with rainfall amounts 5 mm or less. Five relatively dry days with rainfall amounts 1.0mm or less are expected on the 21^{st} to the 25^{th} .

Trinidad and Tobago:

The daily rainfall totals are forecast generally less than 10.0 mm across different farmlands, ranging from 7.5mm in south-eastern areas of Trinidad to 3.0mm in north-eastern areas of Tobago. with fifteen-day rainfall totals ranging between 10.0 mm and 45.0 mm. Any impactful rainfall events are most likely to occur across the eastern and southeastern parts of Trinidad.

Temperatures & Winds:

The maximum temperatures are expected to remain warm, with temperatures ranging between 30.0°C to 32.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 32.0°C to 35.0°C on most days. The minimum temperatures will range between 21.0°C to 23.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

Mostly moderate easterly to north-easterly winds of an average speed of 15-25 km/h are expected, with gusts of 25-30 km/h at times. Low rainfall totals, mostly moderate wind speeds, warm days and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 6.0 to 12.0 millimeters per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be moderate to high, with average daytime relative humidity values between 45% to 90%.

Highlighted Possible Impacts on Agriculture:

During this 15-day forecast period of (21st to 25th) February 2023, expect conditions to be mixed with periods of cloudiness interrupting the sunshine at times during the day. There is a moderate probability (50%) chance for crop irrigation measures to take place due to some moisture in the soils during the forecast period. There is a low probability (20%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a low probability (20%) chance for fungi spread, root and/or fruit rot, insect pests and warm weather diseases to develop in crop beds. River levels will remain at low levels during this forecast period.

Disclaimer