

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16th - 29th) of February, 2024

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 Bulletin for Farmers and Livestock Producers of Trinidad and Tobago for the 15-day period (16th-29st) of February 2024.

Date	Weather	Temperature	Heat Real	Day Moisture (Relative)	Wind
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					Feel	(Humidity)	
16 th	 45% chance of showers	Less than 1.5 mm of rainfall is possible	Partly cloudy with a shower or two	Warm  Max/Min Temperatures °C 32.0/23.5	Feels like 32-37°C	50-59%	 Weak southeasterly 10 km/h Gust 20 km/h
17 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/24.0	Feels like 32-38°C	54-67%	 Moderate easterly 20 km/h Gust 40 km/h
18 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.5/24.0	Feels like 32-36°C	46-62%	 Moderate easterly 20 km/h Gust 40 km/h
19 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/24.0	Feels like 32-36°C	47-61%	 Moderate easterly 20 km/h Gust 40 km/h













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20 th	 60% chance of showers	Less than 6.0 mm of rainfall is possible	Partly cloudy with light showers	Warm  Max/Min Temperatures °C 33.0/23.0	Feels like 33-36°C	50-68%	 Moderate easterly 20 km/h Gust 40 km/h
21 st	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Patchy cloudiness with light showers	Warm  Max/Min Temperatures °C 33.0/23.0	Feels like 33-36°C	48-64%	 Moderate northeasterly 20 km/h Gust 40 km/h
22 nd	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/23.0	Feels like 32-36°C	46-59%	 Moderate northeasterly 20 km/h Gust 40 km/h
23 rd	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/24.0	Feels like 33-36°C	54-68%	 Moderate easterly 20 km/h Gust 40 km/h







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24 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/23.5	Feels like 33-36°C	48-59%	 Moderate southeasterly 20 km/h Gust 40 km/h
25 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 32.0/23.5	Feels like 33-36°C	45-61%	 Moderate easterly 20 km/h Gust 40 km/h
26 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 31.5/24.0	Feels like 33-36°C	48-64%	 Moderate northeasterly 20 km/h Gust 40 km/h
27 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	Warm  Max/Min Temperatures °C 33.0/23.0	Feels like 31-35°C	53-61%	 Moderate easterly 20 km/h Gust 40 km/h

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28 th	 40% chance of showers	Less than 3.0 mm of rainfall is possible	Patchy cloudiness with light showers	<p>Warm</p>  Max/Min Temperatures °C 31.0/23.0	Feels like 33-35°C	60-68%	 Moderate northeasterly 20 km/h Gust 40 km/h
29 th	 20% chance of showers	Less than 1.0 mm of rainfall is possible	Patchy cloudiness with a light shower	<p>Warm</p>  Max/Min Temperatures °C 32.0/24.0	Feels like 33-36°C	46-62%	 Moderate easterly 20 km/h Gust 40 km/h

Trinidad Rainfall Forecast for the 15-Day period of February (16th –29th) 2024.

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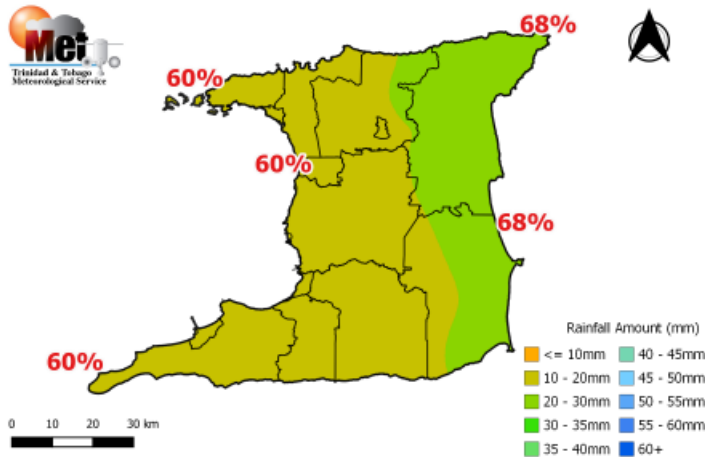


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16th-29th) February 2024 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 2.5 mm.

South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 2.5 mm.

Southern areas

Moderate chance (60%) of mean daily rainfall up to 1.2 mm.

South-Western areas

Moderate chance (60%) of mean daily rainfall up to 1.2 mm.

Central, West-Central, and inland areas

Moderate chance (60%) of mean daily rainfall up to 1.2 mm.

Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 1.2 mm.

Tobago Rainfall Forecast for the 15-Day period of February (16th-29th) 2024.

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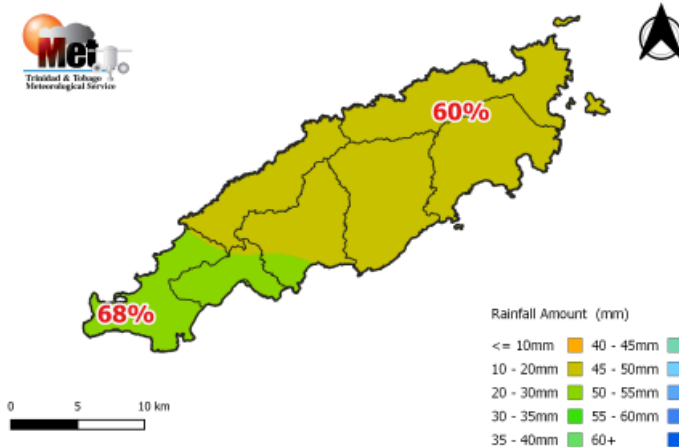


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16th-29th) February 2024 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (60%) of mean daily rainfall up to 1.5 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 2.5 mm.

Sun and Moon Positions in the Sky February (16th-29th) 2023.

The sun is presently at 13.0 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from December 16th will be 11 hours and 49 minutes, increasing slightly to 11 hours and 55 minutes by 29th of February 2024. According to the moon's phases, the 18th-20th and 26th-27th of February are good days for planting aboveground crops, while 26th-29th are good days for planting below ground crops. However, 16th (First Quarter Phase)-17th and 21st 23rd and 24th (Full Moon Phase)-25th of February are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

Highlighted Possible Impacts on Agriculture:

During this second 15-day (16th-29th) forecast period of February 2024, expect mostly patchy cloudiness with little showery episodes similar to what was experienced during the first 15-day forecast period of February. Therefore, scheduling of irrigation days on fields to maintain optimal soil moisture would be necessary on most days. There is a moderate (40%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There

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is a moderate probability (68%) that strong winds may cause physical damage to young plants and flower mature plants in exposed areas. There is also a low probability (28%) chance for fungi spread, insect pests and warm/moist weather diseases to develop in crop beds.

Weather Assessment for the period February (1st-14th) 2024.

Very low rainfall amounts occurred during the 12th – 14th of February across Trinidad, while a trace amount of rainfall fell in Tobago. The rainfall total maps for the period, 1st to 14th of February for Trinidad and Tobago are located below as figure 1 and figure 2.

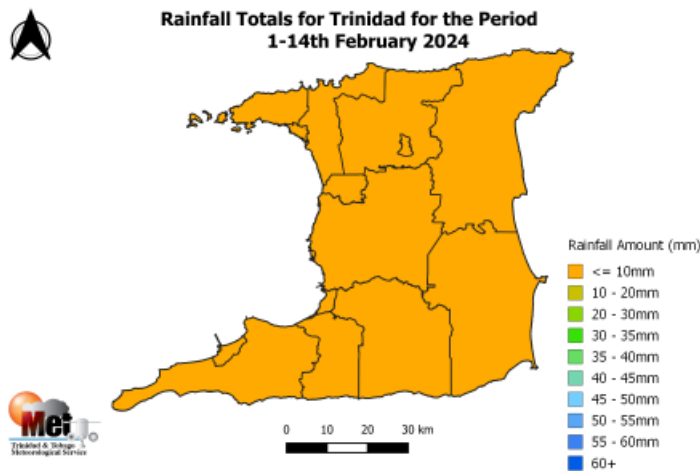


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 1st to 14th of February 2024.

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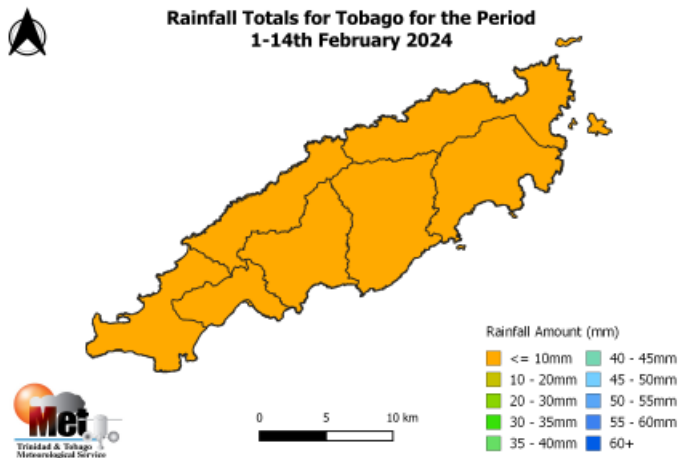


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 1st to 14th of February 2024.

Temperatures:

Temperatures were cool to warm during the period 1st to 14th of February, with the minimum nighttime temperature falling to 22.0 °C and the maximum daytime temperature rising to 33.5 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1st to 14th of February, with the minimum nighttime temperature falling to 24.0 °C and the maximum daytime temperature rising to 32.1°C.

Summary

Summary of Expected Weather:

Low rainfall amounts are expected during the fifteen days.

Relatively wet days are expected on the 16th, 20th-21st and 28th with less than 6.0 mm of rainfall, while on other days less than 1.0 mm is expected.

Trinidad and Tobago:

Relatively wet days are expected on the 16th, 20th-21st and 28th with less than 6.0 mm of rainfall, while on other days less than 1.0 mm is expected. The daily rainfall totals are forecast to range between 0.0 mm to 6.0 mm across different farmlands across the islands, especially along the northeastern coastal areas of Trinidad and southwestern coast of Tobago. The fifteen-day rainfall totals ranging between 12.0 mm and 25.0 mm in Trinidad, and ranging between 15.0 mm and 25.0 mm in Tobago.

Temperatures & Winds:

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The maximum temperatures are expected to become warm, with daily temperatures ranging between 31.0°C to 33.0°C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 31.0 °C to 38.0°C on most days. The minimum temperatures will range between 23.0°C to 24.0°C during most nights/early mornings, dropping lower in rural areas and valleys.

In general, mostly moderate northeasterly to easterly winds with an average speed of 20-40 km/h are expected. Low rainfall totals, mostly moderate speeds, warm days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 5.0 to 11.0 mm per day.

Moisture levels:

Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be low with average daytime relative humidity values in the upper-40s to upper-60s, in terms of percentage.

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