

**Weather Forecast/Bulletin for Farmers and Livestock Producers of Trinidad and Tobago for
the 15-day period (16th-31st) of March 2024.**

| Date | Weather | | Temperature | Heat Real Feel | Day Moisture (Relative Humidity) | Wind | |
|------------------|--|--|----------------------------------|---|----------------------------------|--------|--|
| 16 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Hot  Max/Min Temperatures °C 33.0/24.0 | Feels like 39-43 °C | 59-70% |  Moderate Easterly 20 km/h Gust 40 km/h |
| 17 th |  40% chance of showers | Less than 6.0 mm of rainfall is possible | Partly cloudy with few showers | Very Warm  Max/Min Temperatures °C 33.0/24.0 | Feels like 36-40 °C | 55-80% |  Moderate Easterly 20 km/h Gust 40 km/h |
| 18 th |  40% chance of showers | Less than 6.0 mm of rainfall is possible | Partly cloudy with few showers | Very Warm  Max/Min Temperatures °C 32.0/24.0 | Feels like 37-40 °C | 60-70% |  Moderate southeasterly 20 km/h Gust 40 km/h |
| 19 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Partly cloudy with few showers | Very Warm  Max/Min Temperatures °C 33.0/25.0 | Feels like 35-39 °C | 45-60% |  Moderate southeasterly 20 km/h Gust 40 km/h |
| 20 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Hot  Max/Min | Feels like 40-46 °C | 55-75% |  Moderate Easterly 20 km/h Gust 40 km/h |

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Issue date: 2021-03- 21

| | | | | | | | |
|------------------|--|--|---|--|------------------------|--------|--|
| | | | | Temperatures °C 34.0/24.0 | | | |
| 21 st |  40% chance of showers | Less than 3.0 mm of rainfall is possible | Patchy cloudiness with light showers | Very Warm  Max/Min Temperatures °C 33.0/23.0 | Feels like 38-48 °C | 55-80% |  Moderate northeasterly 20 km/h Gust 40 km/h |
| 22 nd |  60% chance of showers | Less than 10.0 mm of rainfall is possible | Partly cloudy with few showers | Very Warm  Max/Min Temperatures °C 32.0/23.0 | Feels like 36-44 °C | 55-80% |  Gentle easterly 10-20 km/h Gust 40 km/h |
| 23 rd |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Hot  Max/Min Temperatures °C 34.0/24.0 | Feels like 37-47 °C | 45-70% |  Moderate easterly 20 km/h Gust 40 km/h |
| 24 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Hot  Max/Min Temperatures °C 34.0/25.0 | Feels like 37-47 °C | 45-70% |  Moderate southeasterly 20 km/h Gust 40 km/h |
| 25 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Very Warm  Max/Min Temperatures °C 33.0/24.0 | Feels like 35-43°C | 45-70% |  Fresh easterly 30 km/h Gust 40 km/h |
| 26 th |  40% chance of showers | Less than 6.0 mm of rainfall is possible | Partly cloudy with few showers | Warm  Max/Min | Feels like 33-44 °C | 45-80% |  Moderate northeasterly 30 km/h Gust |

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| | | | | Temperatures °C 32/23 | | | 40 km/h |
|------------------|--|--|--|---|------------------------|--------|--|
| 27 th |  60% chance of showers | Less than 10.0 mm of rainfall is possible | Partly cloudy with few showers | Warm  Max/Min Temperatures °C 32.0/23.0 | Feels like 34-42 °C | 50-75% |  Gentle northeasterly 15-20 km/h Gust 40 km/h |
| 28 th |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Warm  Max/Min Temperatures °C 31.0/23.0 | Feels like 34-39 °C | 55-75% |  Gentle northeasterly 15-20 km/h Gust 40 km/h |
| 29 th |  60% chance of showers | Less than 10.0 mm of rainfall is possible | Patchy cloudiness with showers | Warm  Max/Min Temperatures °C 31.0/24.0 | Feels like 33-36 °C | 46-62% |  Gentle northeasterly 20 km/h Gust 40 km/h |
| 30 th |  40% chance of showers | Less than 10.0 mm of rainfall is possible | Patchy cloudiness with showers | Warm  Max/Min Temperatures °C 31.0/24.0 | Feels like 34-39 °C | 55-75% |  Moderate easterly 20 km/h Gust 40 km/h |
| 31 st |  20% chance of showers | Less than 1.0 mm of rainfall is possible | Mostly sunny with a light shower | Hot  Max/Min Temperatures °C 33.0/24.0 | Feels like 38-46 °C | 55-75% |  Moderate northeasterly 20 km/h Gust 40 km/h |

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Trinidad Rainfall Forecast for the 15-Day period of March (16th-31st) 2024.

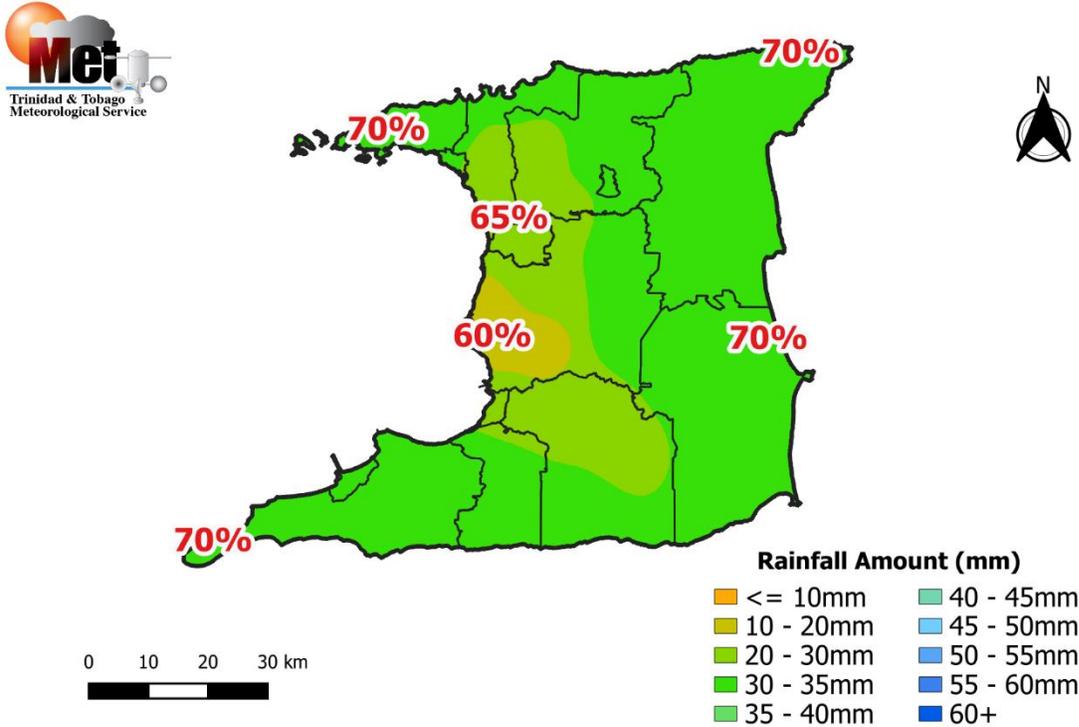


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16th-31st) March 2024 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

South-Eastern areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

Southern areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

Central, West-Central, and inland areas

Moderate chance (63%) of mean daily rainfall up to 0.6 mm.

Northern, North-Western areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

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Tobago Rainfall Forecast for the 15-Day period of March (16th-31st) 2024.

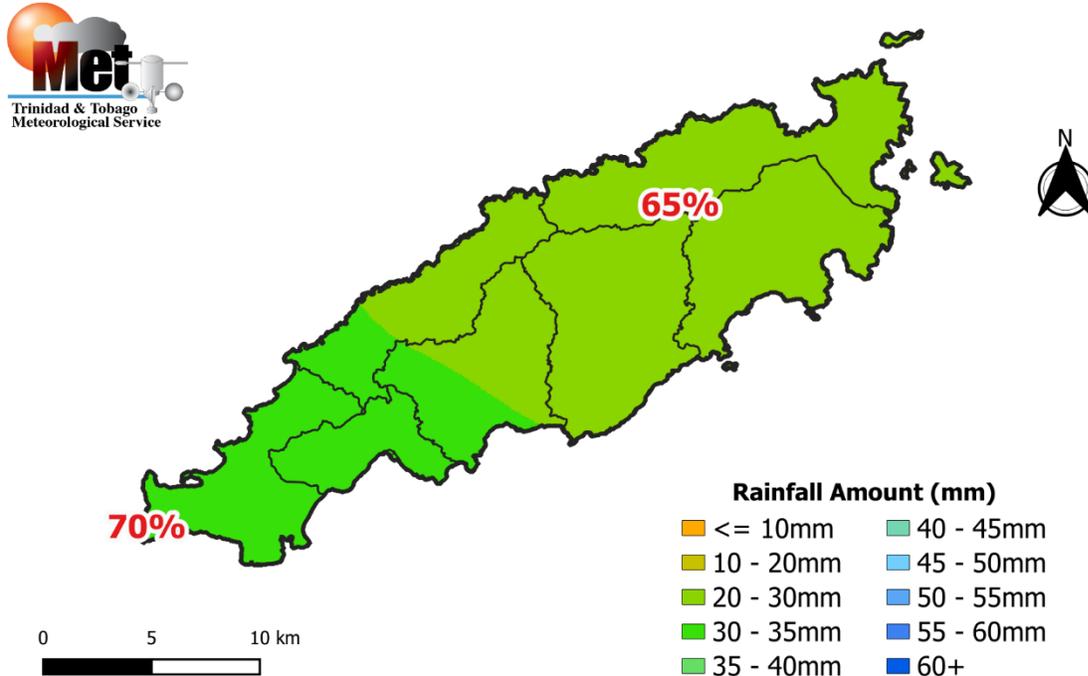


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16th-31st) March 2024 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 0.7 mm.

South-Western areas

Moderate chance (70%) of mean daily rainfall up to 2.3 mm.

Sun and Moon Positions in the Sky March (16th-31st) 2024.

The sun is presently at 1.4 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from March 16th will be 12 hours and 4 minutes, increasing slightly to 12 hours and 13 minutes by 31st of March 2024. According to the moon’s phases, the (First Quarter Moon Phase) 17th-18th, and 24th of March are good days for planting aboveground crops, while the 26th-28th are good days for planting below ground crops. However, the 19th -23rd and 29th -31st of March are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

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Summary of Expected Weather:

Mainly Low rainfall amounts are expected during the fifteen days.

March is typically the driest month of the Dry Season however relatively wet days are expected. However, relatively wet days are possible on 18th, 22nd, 26th, 27th, 29th and 30th with less than 10.0 mm of rainfall, while on other days less than 1.0 mm is expected.

Trinidad and Tobago:

Relatively wet days are possible on 18th, 22nd, 26th, 27th, 29th and 30th with less than 10.0 mm of rainfall, while on other days less than 1.0 mm is expected. The daily rainfall totals are forecast to range between 1.0 mm to 6.0 mm across different farmlands across the islands, favouring the northeastern coastal areas of Trinidad and the southwestern coast of Tobago. The 15-day rainfall totals range between 12.0 mm and 35.0 mm in Trinidad, and range between 25.0 mm and 35.0 mm in Tobago.

Temperatures & Winds:

The maximum temperatures are expected to become very warm to occasionally hot. Daily temperatures ranging between 31.0 °C to 34.0 °C throughout the period. However, temperatures are expected to have a real-feel or feels-like between 33.0 °C to 48.0 °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, very warm/hot days, and warm feels-like temperatures will sustain average evapotranspiration rates in crops ranging between 5.0 to 15.0 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 lower-80s, in terms of percentage.

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Highlighted Possible Impacts on Agriculture:

Expect similar conditions to what was experienced during the first 15-day forecast period of March. This second 15-day (16th-31st) forecast period of March 2024 is expected mostly sunny, breezy and very warm with partly cloudy spells and few showery episodes.

Therefore, scheduling of irrigation days on fields to maintain optimal soil moisture would be necessary on most days. There remains a moderate (40%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate probability (40-60%) that strong winds may cause physical damage to young plants and flowering 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 March (1st-15th) 2024.

Very low rainfall amounts occurred during the first half of March across Trinidad, while very heavy rainfall amounts occurred in Tobago (1st March 26mm and 3rd March 43mm). The rainfall totals maps for the period 1st to 15th of March for Trinidad and Tobago are located below as figure 1 and figure 2.

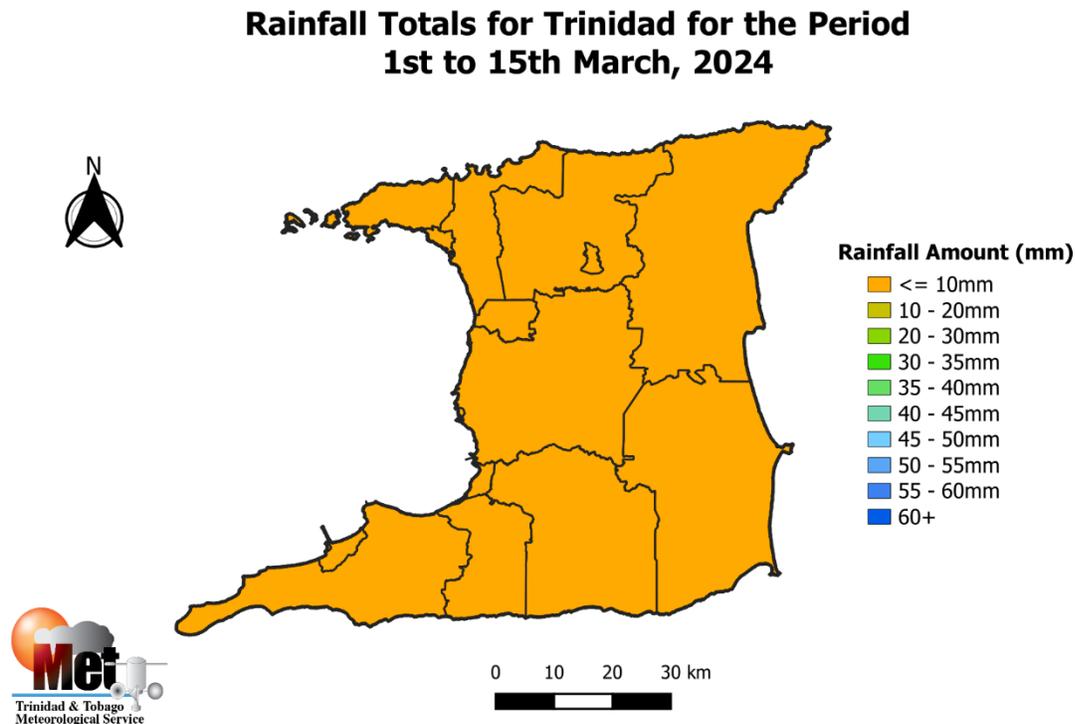


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 15th of March 2024.

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**Rainfall Totals for Tobago for the Period
1st to 15th March, 2024.**

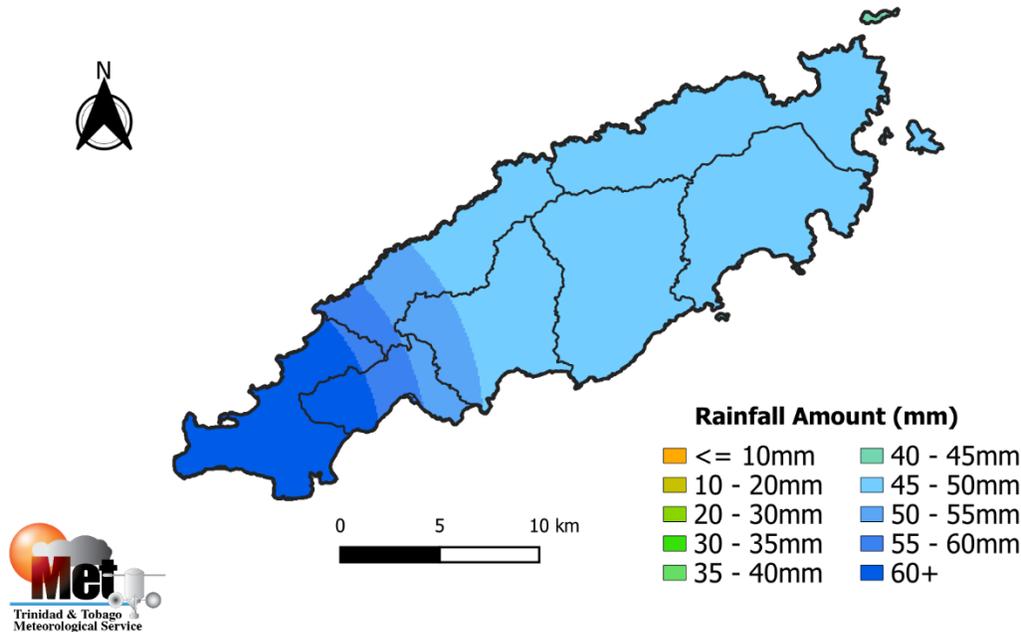


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 15th of March 2024.

Temperatures:

Temperatures were cool to warm during the period 1st to 15th of March, with the minimum nighttime temperature falling to 20.8 °C (3rd March) and the maximum daytime temperature rising to 34.6 °C (12th March), in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 1st to 15th of March, with the minimum nighttime temperature falling to 22.9 °C (3rd March) and the maximum daytime temperature rising to 31.9 °C (12th March).

Disclaimer

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 of 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 |

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