

**Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of  
Trinidad and Tobago for the First 15-Day Period (1<sup>st</sup> – 15<sup>th</sup>) of February, 2025**

**Definitions used in the forecast and bulletin**

<b>Term</b>	<b>Meaning</b>
<b>Rain Day</b>	A day with 1.0 mm or more of rainfall amount
<b>Wet Day</b>	A day with 10.0 mm or more of rainfall amount
<b>Extremely Wet Day</b>	A day with 25.0 mm or more of rainfall amount
<b>Normal Rainfall</b>	Between 75% and 125 % of the average
<b>Below Normal Rainfall</b>	Rainfall below 75% of the average
<b>Above Normal Rainfall</b>	Rainfall in excess of 125 % of the average
<b>Much below Normal Rainfall</b>	Rainfall below 50% of the average
<b>Much above Normal Rainfall</b>	Rainfall above 150% of the average
<b>Scanty Rainfall</b>	Less than 1 mm
<b>Moderate Rainfall</b>	1-10 mm
<b>Heavy Rainfall</b>	10-50 mm
<b>Very heavy Rainfall</b>	Greater than 50 mm
<b>Probability of 1-30 %</b>	Low Chance
<b>Probability of 30-70 %</b>	Moderate Chance
<b>Probability greater than 70%</b>	High Chance

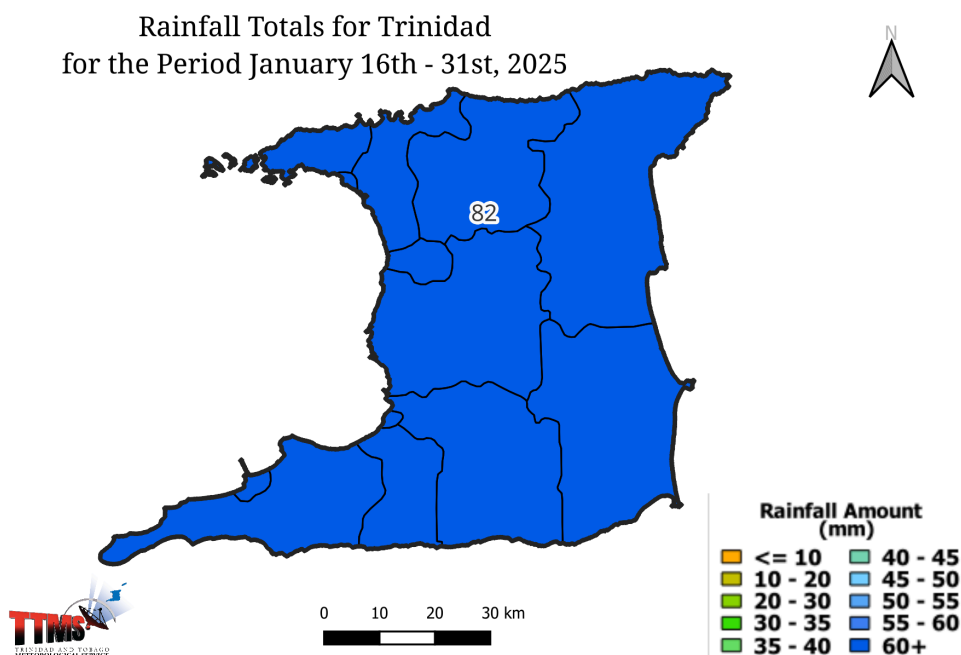
<b>Term</b>	<b>Amount of Rain</b>	<b>Type of day</b>
<b>Scanty Rainfall</b>	Less than 1 mm	Relatively dry day
<b>Moderate Rainfall</b>	1-10 mm	Relatively wet day
<b>Heavy Rainfall</b>	10-50 mm	Wet day
<b>Very heavy Rainfall</b>	Greater than 50 mm	Excessively wet day

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### Weather Assessment for the period January 16<sup>th</sup> to 31<sup>st</sup> 2025.

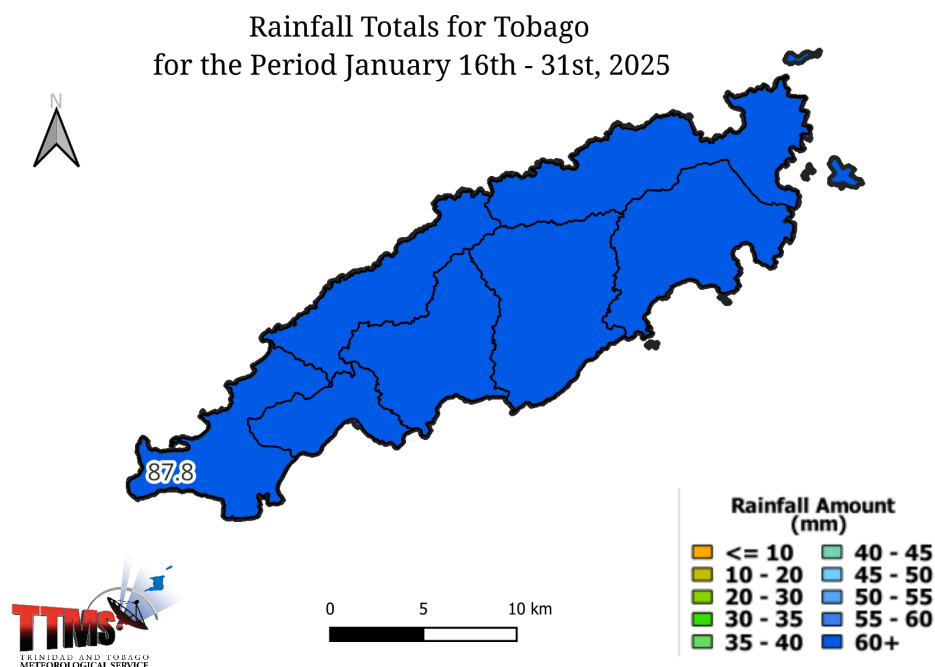
Much above normal rainfall from persistent moderate and occasional heavy showers during the second half of January has resulted in well-watered hillsides and waterlogged soils. Tobago has experienced two wet days and one extremely wet day resulting in a 15-day rainfall amount at Crown Point of 87.8 mm. Meanwhile Piarco, Trinidad has experienced one wet day resulting in a 15-day rainfall amount of 82.0 mm. The rainfall totals maps for the period 1<sup>st</sup> to 15<sup>th</sup> 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 16<sup>th</sup> to 31<sup>st</sup> of January.**

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**Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 16<sup>th</sup> to 31<sup>st</sup> of January.**













### **Temperatures:**

Warm conditions with near to above normal temperatures dominated the second half of January. From the 16th to the 31st January Piarco observed a maximum daytime temperature of 31.6 °C (24<sup>th</sup>) with no hot days (maximum temperatures over 34.0 °C at Piarco). The minimum night-time temperatures ranged from 20.0 °C to 23.5 °C at Piarco. Tobago also experienced warm conditions with a maximum daytime temperature of 30.8 °C (22<sup>nd</sup>, 23<sup>rd</sup>) with no hot days (maximum temperatures above 33.0 °C at Crown Point). The minimum night-time temperatures ranged from 23.0 °C to 25.8 °C at Crown Point. Factoring the relative humidity however, these temperatures had a 'real feel' that was higher than the observed temperature.

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**Agro-meteorological Forecast:**

Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
1 <sup>st</sup>	 40% chance of showers	1-3 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 <b>Warm</b> Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 33-39 °C	55 - 75%	 Easterly 20 - 30 km/h Gust 50 km/h
2 <sup>nd</sup>	 40% chance of showers	1-4 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 <b>Warm</b> Max/Min Temperatures 31.0 °C /22.0 °C	Feels like 33-37 °C	52 - 70%	 Easterly 20 - 30 km/h Gust 50 km/h
3 <sup>rd</sup>	 40% chance of showers	2-4 mm of rainfall is possible	Partly cloudy, hazy, breezy.	 <b>Warm</b> Max/Min Temperatures 31.0 °C /22.0 °C	Feels like 34-39 °C	57 - 77%	 Easterly 20 - 30 km/h Gust 50 km/h
4 <sup>th</sup>	 40% chance of showers	2-4 mm of rainfall is possible	Partly cloudy, breezy, brisk showers	 <b>Warm</b> Max/Min Temperatures 30.0 °C /23.0 °C	Feels like 33-35 °C	59 - 70%	 Easterly 20 - 30 km/h Gust 50 km/h













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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
5 <sup>th</sup>	 40% chance of showers	2-4 mm of rainfall is possible	Partly to mostly cloudy, breezy, brisk showers	 <b>Warm</b>  Max/Min Temperatures 30.0 °C /22.0 °C	Feels like 33-37 °C	69 - 77%	 Easterly  20 - 30 km/h  Gust 50 km/h
6 <sup>th</sup>	 40% chance of showers	1-3 mm of rainfall is possible	Partly cloudy, hazy, breezy. few showers	 <b>Warm</b>  Max/Min Temperatures 30.0 °C /22.0 °C	Feels like 32-36 °C	58 - 75%	 Easterly  20 - 30 km/h  Gust 50 km/h
7 <sup>th</sup>	 20% chance of showers	1-3 mm of rainfall is possible	Partly cloudy, hazy, breezy. few showers	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /22.0 °C	Feels like 35-38°C	54 - 75%	 Easterly  20 - 39 km/h  Gust 50 km/h
8 <sup>th</sup>	 20% chance of showers	1-3 mm of rainfall is possible	Partly cloudy, hazy, breezy. few showers	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 34-38°C	57 - 70%	 Easterly  20 - 39 km/h  Gust 50 km/h

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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
9 <sup>th</sup>	 40% chance of showers	1-3 mm of rainfall is possible	Partly cloudy, breezy, isolated shower	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 34-39°C	58 - 77%	 Easterly  20 - 39 km/h  Gust 50 km/h
10 <sup>th</sup>	 60% chance of showers	1-3 mm of rainfall is possible	Partly to mostly cloudy, breezy, brisk showers	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 33-36°C	58 - 75%	 Easterly  20 - 39 km/h  Gust 50 km/h
11 <sup>th</sup>	 70% chance of showers	2-4 mm of rainfall is possible	Partly to mostly cloudy, breezy, brisk showers	 <b>Warm</b>  Max/Min Temperatures 30.0 °C /22.0 °C	Feels like 32-36°C	54 - 75%	 Easterly  20 - 39 km/h  Gust 50 km/h
12 <sup>th</sup>	 70% chance of showers	3-8 mm of rainfall is possible	Partly to mostly cloudy, breezy, brisk showers	 <b>Warm</b>  Max/Min Temperatures 30.0 °C /22.0 °C	Feels like 32-36°C	55 - 70%	 Easterly  20 - 39 km/h  Gust 50 km/h

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## TRINIDAD AND TOBAGO METEOROLOGICAL SERVICE

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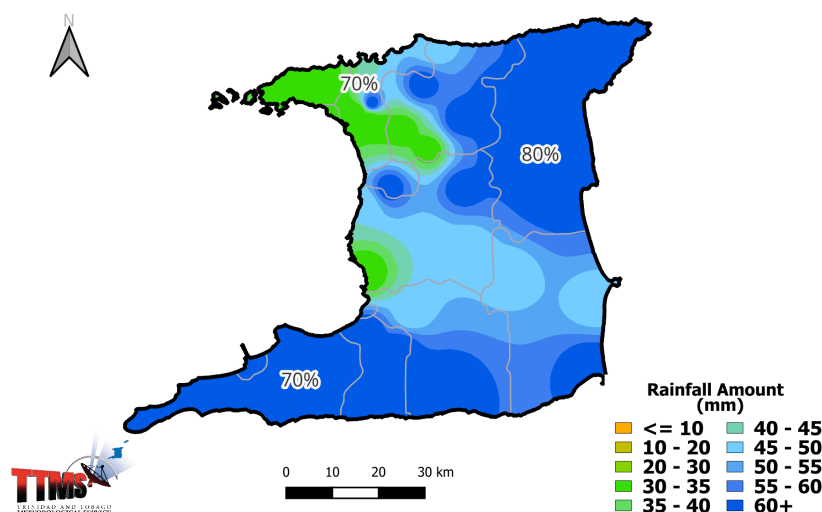
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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
13 <sup>th</sup>	 70% chance of showers	4-6 mm of rainfall is possible	Partly to mostly cloudy, breezy, showery	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /22.0 °C	Feels like 32-36°C	50 - 70%	 Easterly  20 - 39 km/h  Gust 50 km/h
14 <sup>th</sup>	 70% chance of showers	4-8 mm of rainfall is possible	Partly to mostly cloudy, breezy, showery	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 33-39°C	55 - 75%	 Easterly  20 - 39 km/h  Gust 50 km/h
15 <sup>th</sup>	 70% chance of showers	4-8 mm of rainfall is possible	Partly to mostly cloudy, breezy, showery	 <b>Warm</b>  Max/Min Temperatures 31.0 °C /23.0 °C	Feels like 33-39°C	54 - 75%	 Easterly  20 - 39 km/h  Gust 50 km/h

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**Trinidad Rainfall Forecast for the 15-Day period of February (1<sup>st</sup> – 15<sup>th</sup>) 2025.**



**Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1<sup>st</sup> – 15<sup>th</sup>) February 2025 and percentage probability of occurrence.**

**Eastern and North-Eastern areas:** High chance (80%) of mean daily rainfall up to 4.0 mm.

**South-Eastern areas:** Moderate chance (70%) of mean daily rainfall up to 3.6 mm.

**Southern areas:** Moderate chance (70%) of mean daily rainfall up to 4.2 mm.

**South-Western areas:** Moderate chance (70%) of mean daily rainfall up to 4.3 mm.

**Central, West-Central, and inland areas:** Moderate chance (70%) of mean daily rainfall up to 3.0 mm.

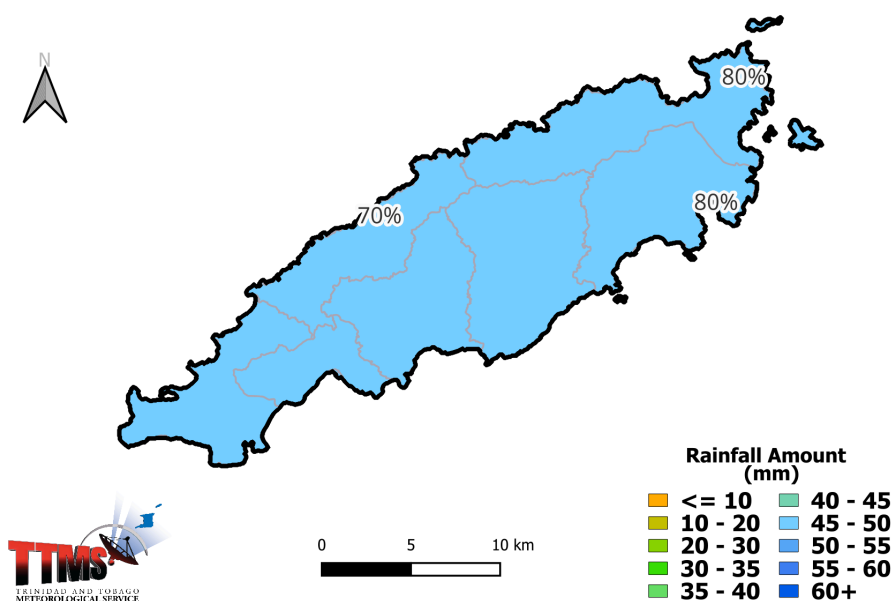
**Northern, North-Western areas:** Moderate chance (70%) of mean daily rainfall up to 2.6 mm.

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**Tobago Rainfall Forecast for the 15-Day period of February (1<sup>st</sup> – 15<sup>th</sup>) 2025.**



**Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (1<sup>st</sup> – 15<sup>th</sup>) February 2025 and percentage probability of occurrence.**

**North-Eastern areas:** High chance (80%) of mean daily rainfall up to 3.0 mm.

**South-Western areas:** Moderate chance (70%) of mean daily rainfall up to 3.0 mm.

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### **Trinidad and Tobago:**

The 2025 dry season continues with further showery spells expected 1<sup>st</sup> to 15<sup>th</sup> February that will likely result in wetter than usual conditions lingering into this 15-day period. Above-normal rainfall amounts are expected 1<sup>st</sup>– 15<sup>th</sup> February due to relatively wet days with daily rainfall totals forecast up to 8 mm.

In Trinidad, the 15-day period forecast rainfall totals are expected to range between 30 mm and 65 mm across different farmlands favouring northern, northeastern, and southern areas of Trinidad: Blanchisseuse, Valencia, Plum Matin, Rio Claro and Penal. In Tobago, 15-day forecast rainfall is expected to reach 45 mm across most farmlands, favouring northern and central hillsides and southwestern lowland areas: Main Ridge Reserve, Charlotteville, Belle Garden, Hillsborough and Crown Point.

### **Temperatures & Winds:**

Warm conditions for this time of year are expected on some days from 1<sup>st</sup> to 15<sup>th</sup> February with a moderate (65%) chance daytime and nighttime temperatures will be above normal. Forecast daily maximum temperatures will range from 30 °C to 31 °C. It will feel warm on most days when factoring humidity however, as these temperatures are expected to feel as hot as 32 °C to 39 °C on the warmest days. The minimum temperatures will range from 20.0 °C to 23.0 °C during most nights/early mornings, though lower (19 °C) in hilly areas and sheltered valleys.

Breezy to windy conditions are expected to continue with a moderate (60%) chance of fresh northeasterly or easterly winds of 20–39 km/h with strong gusts possible. Breezy to windy conditions combined with warm conditions are expected to bring average evapotranspiration rates in crops between 3.0 to 8.0 mm per day.

### **Moisture levels:**

Over the fifteen-day period across Trinidad and Tobago, expect moderate moisture levels with average daytime relative humidity values mainly from the mid-50s to mid-70s, in terms of percentage.

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### Highlighted Possible Impacts on Agriculture:

Following the extremely wet start to the dry season, further showers will maintain lush vegetation and abundant soil moisture across most farmlands during the period. Light to moderate showers will interrupt breezy but warm conditions resulting in less evaporative stress. Across western areas of Trinidad however scheduling of irrigation days on fields to maintain optimal soil moisture may remain necessary on warm days. There is a low (20%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate probability (60%) that strong gusts may damage young plants and flowering mature plants in exposed hilly areas. There is a moderate probability (60%) chance for fungal spread, insect pests and warm/moist weather diseases to develop in crop beds.

### Sun and Moon Positions in the Sky February (1<sup>st</sup> – 15<sup>th</sup>) 2025.

The sun is presently 17° South of the Equator and the day-length or number of sunlight hours in Trinidad and Tobago on February 1<sup>st</sup> will be 11 hours, 40 minutes and 58 seconds increasing to 11 hours, 47 minutes 54 seconds on February 15<sup>th</sup>.

Moon Phases: First Quarter, 5<sup>th</sup>; Full Moon, 12<sup>th</sup>. According to the tradition of moon's phases: February 3<sup>rd</sup> – 5<sup>th</sup> and 8<sup>th</sup> – 9<sup>th</sup> are good days for planting above-ground crops; 15<sup>th</sup> is a good day for planting below-ground; the remaining days are poor planting days and useful for removing weeds, clearing land and ploughing fields.

### Summary of Expected conditions:

**Warm conditions and near-normal to above-normal rainfall amounts are possible during the fifteen days.**

Near-normal to above-normal rainfall amounts are expected 1<sup>st</sup>– 15<sup>th</sup> February due to relatively wet days with daily rainfall totals forecast up to 8 mm. The wetter than usual conditions at the start of the 2025 dry season are expected to continue and maintain adequate soil moisture into this 15-day period. Meanwhile, relatively lower temperatures will remain above average for February.

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