

## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the First Dekad (1st - 10th) of April, 2022

### 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 (1<sup>st</sup>– 15<sup>th</sup>) of April 2022.

Date	Weather	Temperature	Heat Real Feel	Day Moisture (Relative) (Humidity)	Wind

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1 <sup>st</sup>	 30% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower or two	<b>Warm</b>  Max/Min Temperatures °C 31.5/22.0	Feels like 36-39°C	60-69%	 Moderate easterly 20 km/h Gust 30 km/h
2 <sup>nd</sup>	 10% chance of a shower	Less than 0.1 mm of rainfall is possible	Infrequent patchy cloudy skies with a low probability of a light shower	<b>Warm</b>  Max/Min Temperatures °C 32.0/22.5	Feels like 33-39°C	49-53%	 Moderate easterly 20 km/h Gust 30 km/h
3 <sup>rd</sup>	 40% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.5/23.0	Feels like 34-37°C	54-60%	 Moderate easterly 20 km/h Gust 30 km/h
4 <sup>th</sup>	 20% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower	<b>Warm</b>  Max/Min Temperatures °C 32.0/23.0	Feels like 35-39°C	56-62%	 Moderate easterly 20 km/h Gust 30 km/h
5 <sup>th</sup>	 20% chance	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light	<b>Warm</b> 	Feels like		 Moderate easterly 20 km/h















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	of a shower	possible	shower	Max/Min Temperatures °C 32.0/23.5	35- 38°C	56-64%	Gust 30 km/h
6 <sup>th</sup>	 20% chance of a shower	Less than 1.0 mm of rainfall is possible	Patchy cloudy skies with a light shower	<b>Warm</b>  Max/Min Temperatures °C 32.0/23.0	Feels like 33- 44°C	46-78%	 Moderate easterly 20 km/h Gust 30 km/h
7 <sup>th</sup>	 40% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.5/23.0	Feels like 35- 40°C	57-74%	 Moderate easterly 20 km/h Gust 30 km/h
8 <sup>th</sup>	 40% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.0/23.5	Feels like 34- 40°C	57-78%	 Moderate easterly 20 km/h Gust 30 km/h
9 <sup>th</sup>	 40% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.5/23.5	Feels like 36- 40°C	61-72%	 Moderate easterly 20 km/h Gust 30 km/h
				<b>Warm</b>			





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10 <sup>th</sup>	 60% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	 Max/Min Temperatures °C 32.3/23.5	Feels like 37-43°C	59-74%	 Moderate easterly 20 km/h Gust 30 km/h
11 <sup>th</sup>	 60% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 32.0/23.0	Feels like 36-40°C	55-68%	 Moderate easterly 20 km/h Gust 30 km/h
12 <sup>th</sup>	 68% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.5/23.0	Feels like 35-42°C	57-78%	 Moderate easterly 20 km/h Gust 30 km/h
13 <sup>th</sup>	 68% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with one or two showers	<b>Warm</b>  Max/Min Temperatures °C 31.5/23.0	Feels like 35-42°C	63-74%	 Moderate north-easterly 20 km/h Gust 30 km/h
	 1.0 to 3.0 mm of	Partly cloudy		<b>Warm</b>			 Moderate north-easterly

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14 <sup>th</sup>	60% chance of showers	rainfall is possible	with one or two showers	 Max/Min Temperatures °C	Feels like 38-42°C	56-68%	20 km/h Gust 30 km/h
15 <sup>th</sup>	 60% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with one or two showers	31.5/22.5 <b>Warm</b>  Max/Min Temperatures °C 31.0/23.0	Feels like 37-42°C	60-78%	 Moderate north-easterly 20 km/h Gust 30 km/h

## Trinidad Rainfall Forecast for the 15-Day period of April (1<sup>st</sup>–15<sup>th</sup>) 2022

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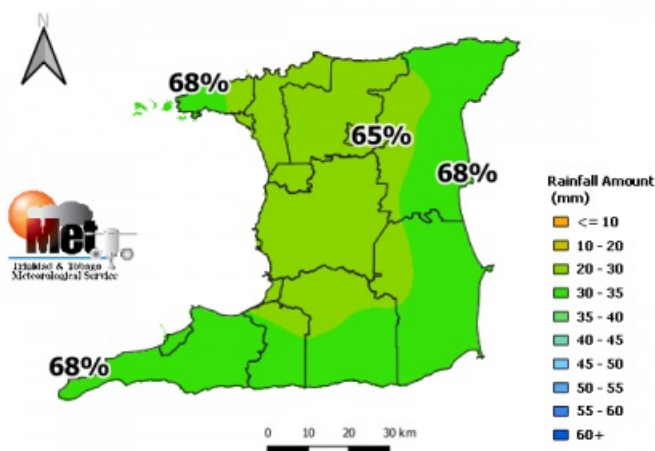


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (1<sup>st</sup>-15<sup>th</sup>) April 2022 and percentage probability of occurrence.

## Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 2.6 mm.

## South-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 3.5 mm.

## Southern areas

Moderate chance (68%) of mean daily rainfall up to 3.5 mm.

## South-Western areas

Moderate chance (68%) of mean daily rainfall up to 3.5 mm.

## Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 2.0 mm.

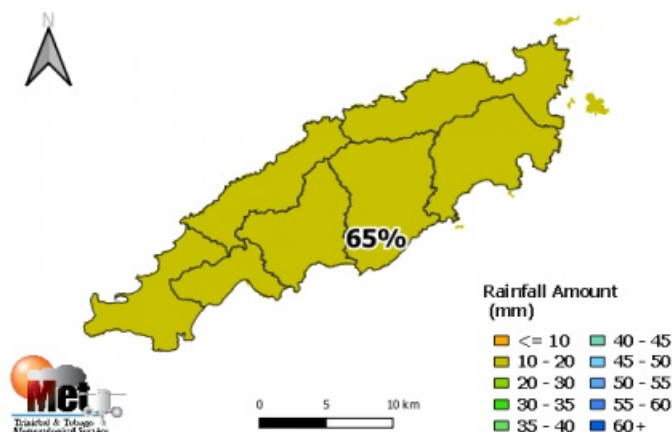
## Northern, North-Western areas

Moderate chance (68%) of mean daily rainfall up to 3.5 mm.

## **Tobago Rainfall Forecast for the 15-Day period of April (1<sup>st</sup>-15<sup>th</sup>) 2022**

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**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>) April 2022 and percentage probability of occurrence.

### North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

### South-Western areas

Moderate chance (65%) of mean daily rainfall up to 1.5 mm.

### **Sun and Moon Positions in the Sky April (1<sup>st</sup>-15<sup>th</sup>) 2022**

The sun is presently at 4.3 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from April 1<sup>st</sup> will be 12 hours and 14 minutes, increasing slowly to 12 hours and 22 minutes by 15<sup>th</sup> April 2022. According to the moon phases 2<sup>nd</sup>, 3<sup>rd</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 14<sup>th</sup> and 15<sup>th</sup> of April are good days for planting aboveground crops. However, 1<sup>st</sup> (New Moon Phase), 4<sup>th</sup>- 6<sup>th</sup> and 9<sup>th</sup> (First Quarter Phase) till the 13<sup>th</sup> of April 2022, are poor planting days. These days should be used for removing weeds, clearing land and ploughing fields.

### **Highlighted Possible Impacts on Agriculture:**

Farmlands in Trinidad and particularly Tobago received low amounts of rainfall during the third dekad (21<sup>st</sup>-30<sup>th</sup>) of April. During this first 15-day forecast period of (1<sup>st</sup> to 15<sup>th</sup>) April 2022, expect similarly small amounts of rainfall to occur as compared to the third 15-day (21<sup>st</sup> to 4<sup>th</sup>) March/April forecast period. Partly cloudy periods with few showers will interrupt sunny and hazy days. Slightly wetter conditions are most likely on the northeastern, southeastern, southwestern and northwestern parts of Trinidad only.

There is a high probability (75%) chance for crop irrigation measures during the forecast period due to expected low rainfall amounts. However, livestock should be provided with fresh cool water particularly on warmer, drier periods to

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rehydrate. There is a moderate probability (40%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a moderate probability (30%) chance for fungi spread, 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 March (21<sup>st</sup>–30<sup>th</sup>) 2022

Mixed weather occurred across Trinidad, while Tobago experienced dry conditions during the 21<sup>st</sup> to 30<sup>th</sup> of March 2022. Wet days with rainfall of 10.0 mm or more occurred on the 25<sup>th</sup> and 28<sup>th</sup> of March over northeastern and central areas of Trinidad only, otherwise mostly sunny and hazy conditions with few showers. Warm days, warm winds, low river levels and low moisture content in soils may have stymied crop growth and development in general on agricultural lands and vegetation growth in pastures. The rainfall totals maps for the period, 21<sup>st</sup> to 30<sup>th</sup> of March for Trinidad and Tobago are located below as figure 1 and figure 2.

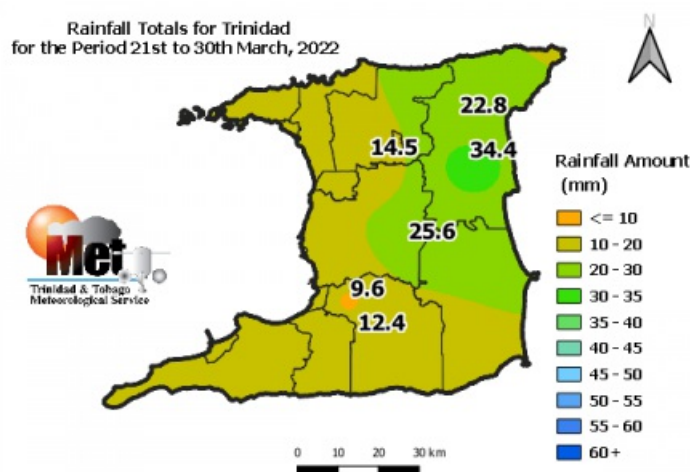


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 21<sup>st</sup> to 30<sup>th</sup> March 2022.

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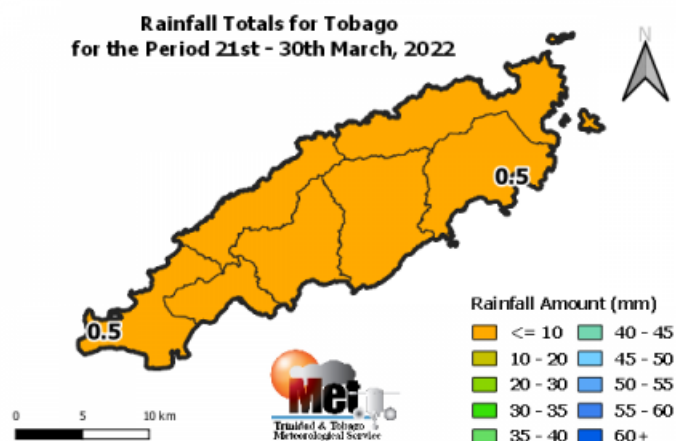


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 21<sup>st</sup> to 30<sup>th</sup> March 2022.

## Temperatures:

Temperatures were cool to warm during the period 21<sup>st</sup> to 30<sup>th</sup> March, as the minimum nighttime temperature fell to 20.5 °C and the maximum daytime temperature rose to 31.5 °C, in Trinidad.

Similarly, Tobago temperatures were cool to warm during the period 21<sup>st</sup> to 30<sup>th</sup> March, with the lowest minimum nighttime temperature of 23.0 °C and the highest maximum daytime temperature rose to 30.8 °C.

## Summary

Summary of Expected Weather: Low rainfall amounts are expected during the 15-day forecast period (1st-15th) of April 2022. Relatively wet days with rainfall amounts ranging between 1.0 mm and 5.0 mm are expected on the 3rd, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th and 15th April 2022. However, relatively dry days with rainfall amounts less than 1.0 mm are expected on the 1st, 2nd, 4th, 5th and 6th of April 2022. Trinidad: Partly cloudy periods are expected on the 3rd, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th and 15th of April 2022, which is likely to bring mostly light rainfall in farmlands across northeastern, southeastern, southwestern and northwestern parts of Trinidad. The daily rainfall totals are forecast to range between 1.0 mm to 5.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 20.0 mm and 35.0 mm. The moderate rains are expected over farmlands in the northeastern areas of Sangre Grande, Fishing Pond, Plum Mitán; southeastern areas of Mayaro, Guayaguayare and Moruga; and southwestern areas of Point Fortin, La Brea, Palo Seco, Granville and Cedros; and northwestern areas of Carenage, Diego Martin and Chaguaramas. However, five relatively dry days with rainfall amounts less than 1.0 mm are expected on the 1st, 2nd, 4th, 5th and 6th of April 2022. Tobago: Tobago will experience drier conditions than Trinidad. Some partly cloudy periods on the 3rd, 7th, 8th, 9th, 10, 11th, 12th, 13th, 14th and 15th of April, which will likely bring light rainfall across farmlands in Tobago. The daily rainfall totals are forecast to range between 1.0 mm to 5.0 mm across different farmlands, with the fifteen-day rainfall totals averaging around 15.0 mm across the island. However, six relatively dry

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days with rainfall amounts less than 1.0 mm are expected on the 1st, 2nd, 4th, 5th and 6th of April 2022. Temperatures & Winds: The maximum temperatures are expected to remain warm, with temperatures ranging between 31.5oC to 32.3oC throughout the period. However, temperatures are expected to have a real-feel or feels-like between 34.0oC to 44.0oC on most days. The minimum temperatures will range between 22.0oC to 23.5oC during most nights/early mornings, dropping lower in rural areas and valleys. Mostly moderate easterly winds of an average speed of 20 km/h are expected, with gusts of 30 km/h at times. Low rainfall totals, mostly average wind speeds, warm days and warm feels-like temperatures will sustain average evapo-transpiration 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 low, with average daytime relative humidity values in the upper-40s to upper-70s, in terms of percentage.

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