

Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second Dekad (11th - 20th) of November, 2021

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 (11th – 25th) of November 2021

Date	Weather			Temperature	Heat Real Feel	Day Moisture (Relative) (Humidity)	Wind
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Issue date: 2021-11-11

11 th	 60% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.0°C	Feels like 38-43°C	63-77%	Weak easterly 10 km/h Gust 20 km/h
12 th	 60% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 35-44°C	48-67%	 Weak easterly 10 km/h Gust 20 km/h
13 th	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 36-44°C	51-76%	 Weak easterly 10 km/h Gust 20 km/h
14 th	 45% chance of showers	1.0 to 2.0 mm of rainfall is possible	Partly cloudy with a shower or two	Very Warm  Max Temp 33.0°C	Feels like 36-41°C	48-63%	 Weak easterly 10 km/h Gust 20 km/h
15 th	 60% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 33.0°C	Feels like 36-41°C	69-77%	 Weak easterly 10 km/h













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				Max Temp 33.0°C	43-47°C		Gust 20 km/h
16 th	 68% chance of showers	5.0 to 9.0 mm of rainfall is possible	Partly cloudy to cloudy with showers	Very Warm  Max Temp 32.0°C	Feels like 39-42°C	65-73%	 Weak easterly 10 km/h Gust 20 km/h
17 th	 40% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 37-40°C	57-62%	 Weak easterly 10 km/h Gust 20 km/h
18 th	 68% chance of showers	1.0 to 9.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 38-41°C	59-67%	 Weak easterly 10 km/h Gust 20 km/h
19 th	 68% chance of showers	1.0 to 5.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 38-40°C	58-62%	 Weak south- easterly 10 km/h Gust 20 km/h







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20 th	 40% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 36-40°C	56-68%	 Weak south-easterly 10 km/h Gust 20 km/h
21 st	 60% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.0°C	Feels like 37-42°C	60-73%	 Weak south-easterly 10 km/h Gust 20 km/h
22 nd	 60% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 36-40°C	53-64%	 Weak easterly 10 km/h Gust 20 km/h
23 rd	 65% chance of showers	1.0 to 3.0 mm of rainfall is possible	Partly cloudy with showers	Very Warm  Max Temp 32.5°C	Feels like 37-43°C	56-72%	 Weak easterly 10 km/h Gust 20 km/h

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24 th	 75% chance of light/moderate showers	10.0 to 20.0 mm of rainfall with higher amounts in the eastern/western parts of Trinidad/Tobago	Cloudy with light to moderate/heavy showers	Warm  Max Temp 31.0°C	Feels like 32-39°C	74-82%	 Weak south-easterly 10 km/h Gust 20 km/h
25 th	 65% chance of light/moderate showers	10.0 to 20.0 mm of rainfall with higher amounts in the eastern/western parts of Trinidad/Tobago	Partly cloudy/ cloudy with light to moderate/heavy showers	Warm  Max Temp 32.0°C	Feels like 32-39°C	74-82%	 Weak south-easterly 10 km/h Gust 20 km/h

Trinidad Rainfall Forecast for the 15-Day period of November (11th-25th) 2021

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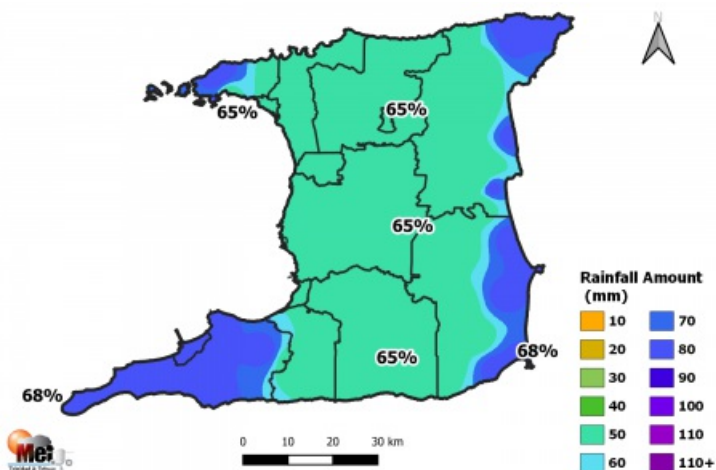


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (11th-25th) November 2021 and percentage probability of occurrence.

Eastern, and North-Eastern areas

Moderate chance (68%) of mean daily rainfall up to 5.3 mm.

South-Eastern areas

High chance (68%) of mean daily rainfall up to 5.8 mm.

Southern areas

High chance (65%) of mean daily rainfall up to 6.2 mm.

South-Western areas

Moderate chance (68%) of mean daily rainfall up to 6.3 mm.

Central, West-Central, and inland areas

Moderate chance (65%) of mean daily rainfall up to 4.0 mm.

Northern, North-Western areas

Moderate chance (65%) of mean daily rainfall up to 4.9 mm.

Tobago Rainfall Forecast for the 15-Day period of November (11th-25th) 2021

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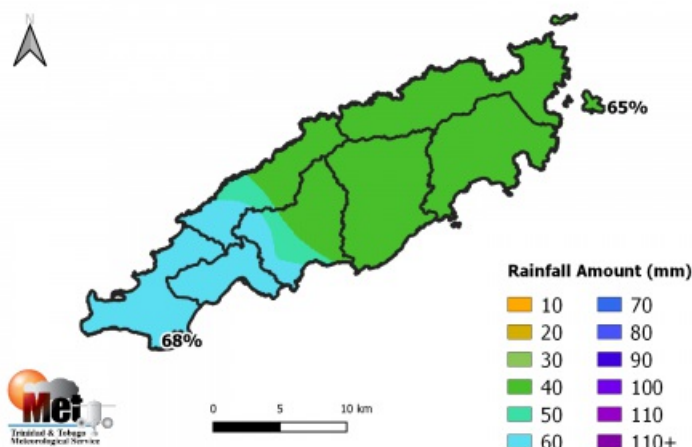


Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Trinidad during the 15-day period (11th-25th) November 2021 and percentage probability of occurrence.

North-Eastern areas

Moderate chance (65%) of mean daily rainfall up to 3.5 mm.

South-Western areas

High chance (68%) of mean daily rainfall up to 4.6 mm.

Sun and Moon Positions in the Sky November (11th-25th) 2021

The sun is presently at 17.25 degrees South latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago from November 11th will be 11 hours 40 minutes, reducing steadily to 11 hours and 35 minutes by the 25th November. During the days that may have patchy or partly cloudy skies and particularly during the hours 11:00 am to 3:00 pm, moderate to high solar radiation intensity will be experienced. Farmers must be proactive at these times to prevent heat stroke and other heat-related ailments from affecting young, sick livestock and seedlings. Therefore, it will be essential to provide sufficient shade and ventilation together with fresh cool water to livestock when necessary.

According to the moon phases, the 12th, 13th, 16th, 17th, 18th, 24th and 25th of November are good days for planting aboveground crops, while the 21st, 22nd and 23rd of November are good days for planting belowground crops. However, the 11th (First Quarter phase), 14th, 15th, 19th (Full Moon phase) and 20th of November 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 Tobago received mostly low amounts of rainfall during the last dekad (1st-9th) of November. During this second fifteen-day forecast period of (11th to 25th) November, expect similarly rainfall amounts to occur as

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compared to the last fifteen-day 1st to 15th November forecast period. Mostly sunny mornings and afternoons will give way to increasingly cloudy evenings with slightly wetter conditions mostly on the eastern, northwestern and southwestern parts of Trinidad and southwestern Tobago. The light winds and low rainfall amounts in this second fifteen-day period of November will sustain below average evaporation and evapotranspiration rates overall.

There is a moderate probability (70%) chance for crop irrigation measures at this time due to the low rainfall amount and low soil moisture content at times. However, livestock should be provided with fresh cool water particularly on hot drier periods to rehydrate. There is a moderate probability (60%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is also a moderate probability (60%) chance for fungi spread, insect pests and warm weather diseases to develop in crop beds. There is also a low probability (20%) chance of root rot and fruit rot on crops due to the expected low amount of rainfall.

Although the possibility of flooding is still present for this second fifteen-day forecast period of (11th to 25th), farmers should remain prepared with necessary flood alleviating actions such as using portable water pumps, sandbags and elevated structures on the ground to store animals, seedlings, machinery and other equipment.

Weather Assessment for the period November (1st -9th) 2021.

Mostly dry conditions occurred across Trinidad and Tobago during the period November 1st to 9th. Rainy days occurred on the 3rd and 9th in southern and eastern parts of Trinidad, while on other days mostly sunny conditions with one or two light showers occurred. Mostly very warm days, warm winds, low river levels and moderate to low moisture content in soils may have hindered crop growth and development in general in agricultural lands and vegetation growth in pastures. The rainfall totals maps for the period 1st to 9th of November for Trinidad and Tobago are located below as figure 1 and figure 2.

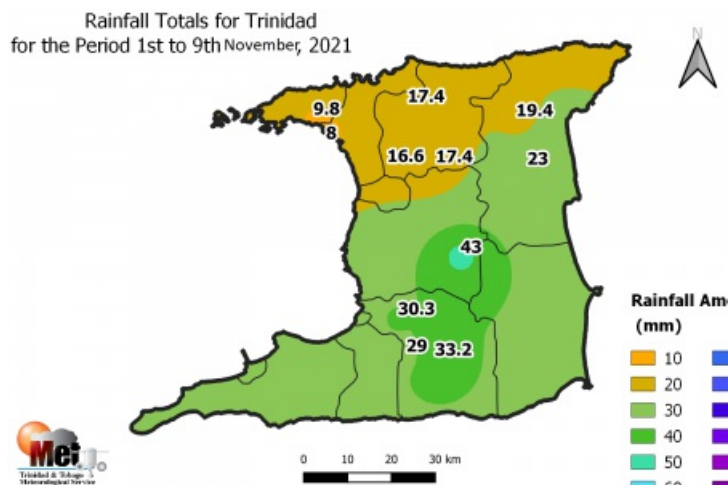


Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during period 1st to 9th of November 2021.

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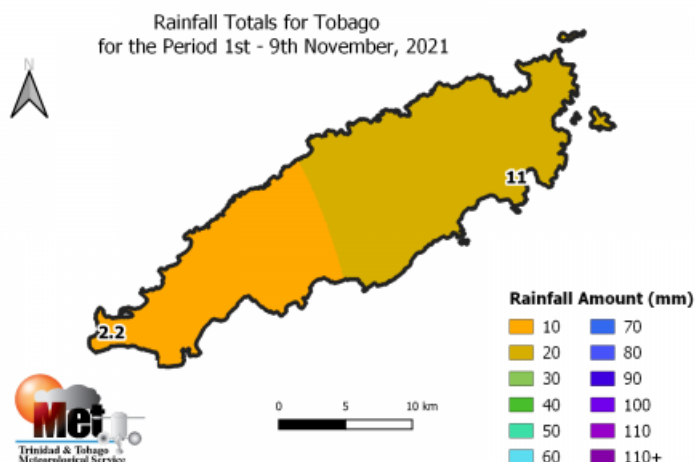


Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during period 1st to 9th of November 2021.

Temperatures:

Temperatures remained warm to very warm during the period as maximum daytime temperatures ranged between 30.5 °C and 32.1 °C, in Trinidad.

In Tobago, temperatures were warm to very warm, with maximum daytime temperatures ranging between 30.6 °C and 31.8 °C.

Summary

Summary of Expected Weather: Moderate rainfall amounts are expected on two of the fifteen days. Wet days (rainfall amounts between 10.0 and 20.0 mm), are expected on the 24th and 25th of November, with higher amounts in eastern, northwestern and southwestern parts of Trinidad. However, thirteen relatively wet days, with rainfall amounts between 1.0 mm to 9.0 mm are expected from the 11th to 23rd. Trinidad: Partly cloudy to cloudy spells are expected on the 24th and 25th of November, which will likely bring light to moderate/heavy rainfall across farmlands across eastern, northwestern and southwestern parts of Trinidad. The daily rainfall totals are forecast to be between 10.0 mm and 20.0 mm across different farmlands, with fifteen-day rainfall totals ranging between 40.0 mm and 75.0 mm. The heaviest and most long-lasting rains are expected over farmlands in the northwestern areas of Chaguaramas and Diego Martin; northeastern areas of Sangre Grande, Fishing Pond, Plum Mitán and Vega De Oropouche and southwestern areas of Point Fortin, La Brea, Palo Seco, Granville and Cedros. However, on the 11th to 23rd of November expect partly cloudy conditions with few light to moderate showers with daily rainfall amounts ranging between 1.0 mm to 9.0 mm. Tobago: Tobago will experience less rainfall as compared to Trinidad. Farmers should expect mostly relatively wet days. The daily rainfall totals are forecast to be between 1.0 mm and 9.0 mm across farmlands, particularly on the southwestern parts of the island. The fifteen-day rainfall totals will range between 35.0 mm to 55.0 mm across the island. Temperatures & Winds: Maximum temperatures are expected to remain warm (31.0oC) to very warm (33.0oC)

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throughout most of the period due to expected afternoon/evening cloud cover. However, temperatures are expected to have a real-feel or feels-like between 32.0oC to 44.0oC on most days. Mostly weak easterly to southeasterly winds of an average speed of 10 km/h are expected, with gusts ranging between 20 km/h to 60 km/h, particularly in heavy showers or thundershowers. Moderate to low rainfall totals, mostly below average wind speeds, warm days and moderate feels-like temperatures will sustain below average evapo-transpiration rates in crops ranging between 3.5 to 10.0 millimeters per day. Moisture levels: Over the fifteen-day period across Trinidad and Tobago, moisture levels are expected to be moderate to low, with average daytime relative humidity values in the mid-50s to mid-70s, in terms of percentage. While during possible rainy days (24th and 25th), average daytime relative humidity values will be in the low-70s to mid-80s, in terms of percentage.

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