

## **Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16th – 30th) of November, 2024**

Issue date: 15<sup>th</sup> November 2024

### **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

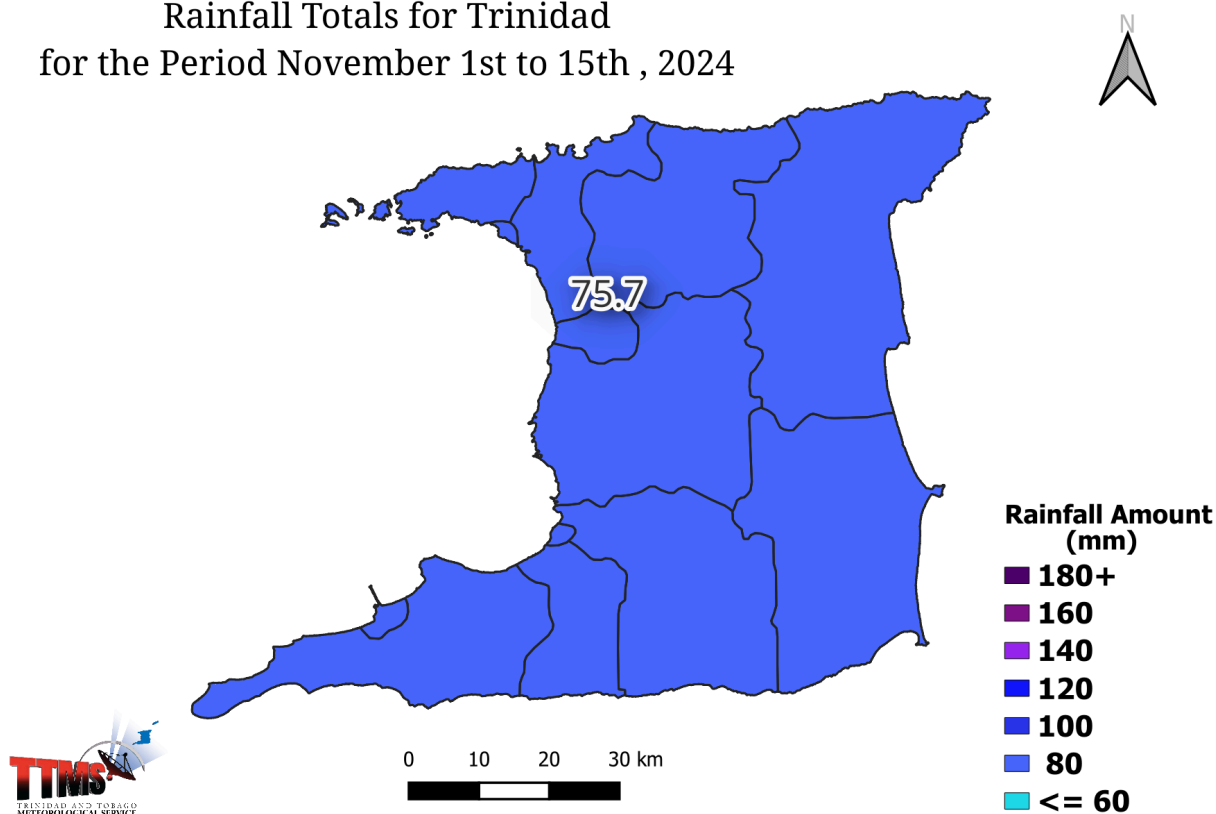
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### Weather Assessment for the period November 1<sup>st</sup> to 15<sup>th</sup> 2024.

During the first half of November, moderate to heavy rainfall resulted in a 15-day rainfall amount at Crown Point of 58.1 mm. Meanwhile at Piarco, moderate rainfall resulted in a 15-day rainfall amount of 75.7 mm. The rainfall totals maps for the period 1<sup>st</sup> to 15<sup>th</sup> of November for Trinidad and Tobago are located below as figure 1 and figure 2.

### Rainfall Totals for Trinidad for the Period November 1<sup>st</sup> to 15<sup>th</sup> , 2024

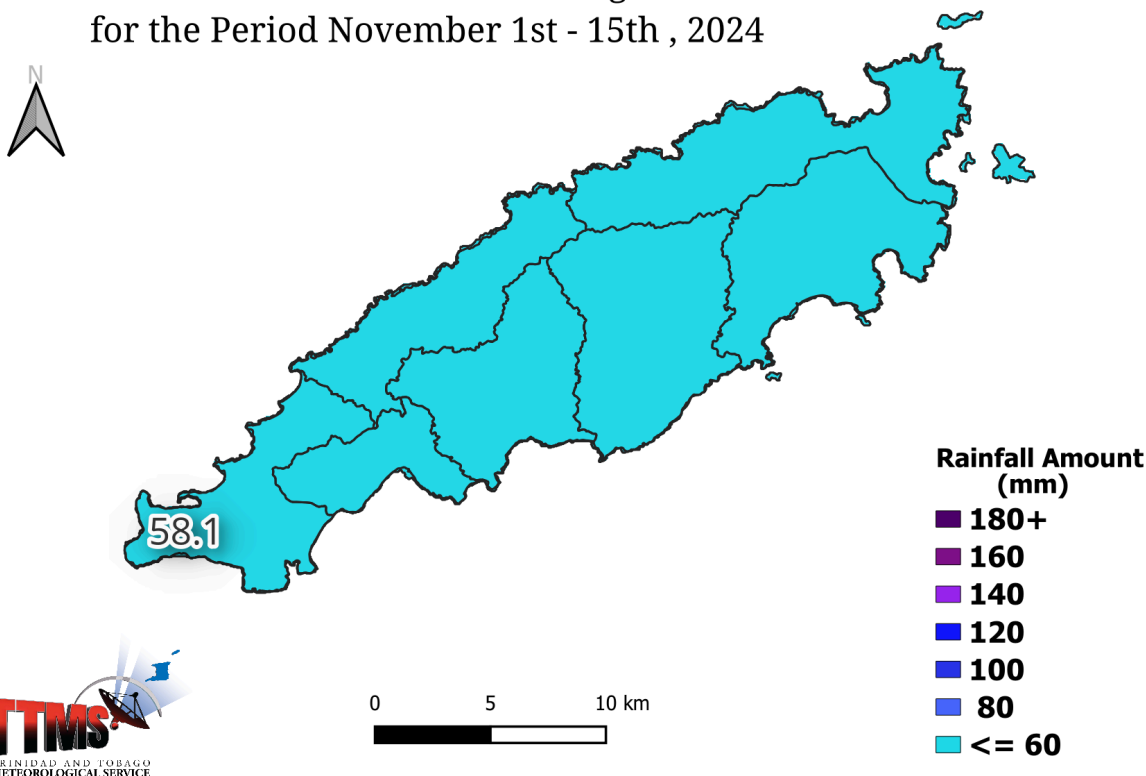


**Figure 1. Rainfall map of Trinidad showing measured rainfall totals for varying districts during the period 1<sup>st</sup> to 15<sup>th</sup> of November.**

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## Rainfall Totals for Tobago for the Period November 1st - 15th , 2024



**Figure 2. Rainfall map of Tobago showing measured rainfall totals for varying districts during the period 1<sup>st</sup> to 15<sup>th</sup> of November.**

### **Temperatures:**










Very warm to extremely hot conditions dominated the first half of November. In Trinidad, a maximum daytime temperature of 34.5 °C (10<sup>th</sup>) and two hot days (maximum temperatures over 34.0 °C at Piarco) occurred during the 1<sup>st</sup> to the 15<sup>th</sup> of November. The minimum night-time temperatures ranged from 22.9 °C to 25.6 °C in Trinidad.

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Tobago experienced very warm to hot conditions during the 1<sup>st</sup> to 15<sup>th</sup> of November. The maximum daytime temperature of 33.2 °C was the only hot day (maximum temperatures above 33.0 °C at Crown Point) observed in Tobago. The minimum night-time temperature ranged from 24.5 °C to 26.4 °C. Factoring the relative humidity however, these temperatures had a ‘real feel’ that was higher than the observed temperature.

### Agro-meteorological Forecast:

Date	Weather			Temperature	Heat ‘Real Feel’	Day Moisture (Relative Humidity)	Wind
16 <sup>th</sup>	 60% chance of showers	3-10 mm of rainfall is possible	Partly cloudy with isolated showers /thunderstorms	 <b>Very Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 40-46°C	69 - 77%	 East-southeasterly 20 - 28 km/h Gust 40 km/h
17 <sup>th</sup>	 70% chance of showers	6-25 mm of rainfall is possible	Partly to mostly cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 38-43°C	63 - 73%	 East-southeasterly 20 - 28 km/h Gust 40 km/h
18 <sup>th</sup>	 70% chance of showers	6-25 mm of rainfall is possible	Partly to mostly cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 38-45°C	70 - 78%	 Easterly 20 - 28 km/h Gust 40 km/h










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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
19 <sup>th</sup>	 70% chance of showers	3-12 mm of rainfall is possible	Partly to mostly cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 38-46°C	66 - 80%	 Easterly 20 - 28 km/h Gust 40 km/h
20 <sup>th</sup>	 40% chance of showers	3-12 mm of rainfall is possible	Partly cloudy with isolated showers /thunderstorms	 <b>Very Warm</b> Max/Min Temperatures 33.0 °C /25.0 °C	Feels like 38-46°C	69 - 76%	 Easterly 20 - 28 km/h Gust 40 km/h
21 <sup>st</sup>	 40% chance of showers	3-9 mm of rainfall is possible	Partly cloudy with isolated showers /thunderstorms	 <b>Very Warm</b> Max/Min Temperatures 33.0 °C /23.0 °C	Feels like 37-46°C	58 - 76%	 Easterly 20 - 28 km/h Gust 40 km/h
22 <sup>nd</sup>	 60% chance of showers	3-9 mm of rainfall is possible	Partly cloudy with isolated showers /thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /23.0 °C	Feels like 36-44°C	58 - 76%	 Easterly 20 - 28 km/h Gust 40 km/h













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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
23 <sup>rd</sup>	 70% chance of showers	6-25 mm of rainfall is possible	Mostly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C / 24.0 °C	Feels like 37-44°C	70 - 76%	 Easterly 20 - 28 km/h Gust 40 km/h
24 <sup>th</sup>	 70% chance of showers	6-25 mm of rainfall is possible	Mostly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C / 24.0 °C	Feels like 37-44°C	70 - 76%	 Easterly 20 - 28 km/h Gust 40 km/h
25 <sup>th</sup>	 70% chance of showers	6-15 mm of rainfall is possible	Mostly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C / 24.0 °C	Feels like 39-44°C	65 - 75%	 Easterly 20 - 28 km/h Gust 40 km/h

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Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
26 <sup>th</sup>	 70% chance of showers	3-9 mm of rainfall is possible	Partly to mostly cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 39-44°C	65 - 75%	 Easterly 20 - 28 km/h Gust 40 km/h
27 <sup>th</sup>	 70% chance of showers	3-9 mm of rainfall is possible	Partly to mostly cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /24.0 °C	Feels like 39-44°C	65 - 75%	 Easterly 20 - 28 km/h Gust 49 km/h
28 <sup>th</sup>	 70% chance of showers	3-9 mm of rainfall is possible	Partly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /23.0 °C	Feels like 39-46°C	65 - 80%	 Easterly 20 - 28 km/h Gust 49 km/h
29 <sup>th</sup>	 70% chance of showers	3-9 mm of rainfall is possible	Partly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C /25.0 °C	Feels like 38-44°C	65 - 75%	 Easterly 20 - 28 km/h Gust 49 km/h

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## TRINIDAD AND TOBAGO METEOROLOGICAL SERVICE

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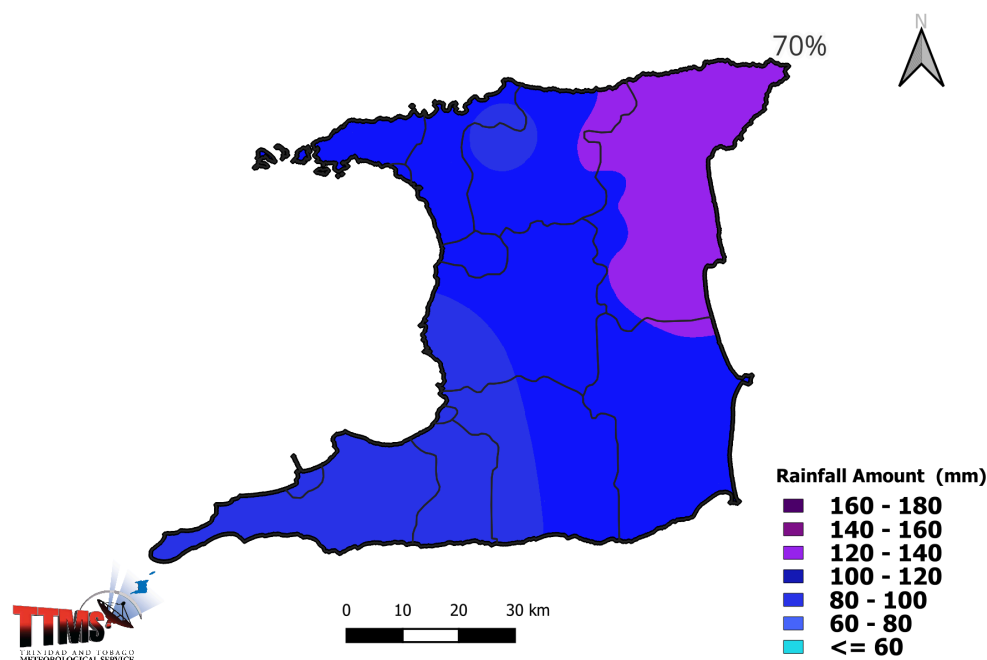
Date	Weather			Temperature	Heat 'Real Feel'	Day Moisture (Relative Humidity)	Wind
30 <sup>th</sup>	 70% chance of showers	3-9 mm of rainfall is possible	Partly cloudy to cloudy with showers, thunderstorms	 <b>Warm</b> Max/Min Temperatures 32.5 °C / 25.0 °C	Feels like 38-44°C	65 - 75%	 Easterly 20 - 28 km/h Gust 49 km/h

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**Trinidad Rainfall Forecast for the 15-Day period of November (16<sup>th</sup> – 30<sup>th</sup> ) 2024.**



**Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16<sup>th</sup> – 30<sup>th</sup>) November 2024 and percentage probability of occurrence.**

**Eastern and North-Eastern areas:** Moderate chance (70%) of mean daily rainfall up to 8.9 mm.

**South-Eastern areas:** Moderate chance (70%) of mean daily rainfall up to 6.6 mm.

**Southern areas:** Moderate chance (70%) of mean daily rainfall up to 6.3 mm.

**South-Western areas:** Moderate chance (70%) of mean daily rainfall up to 6.2 mm.

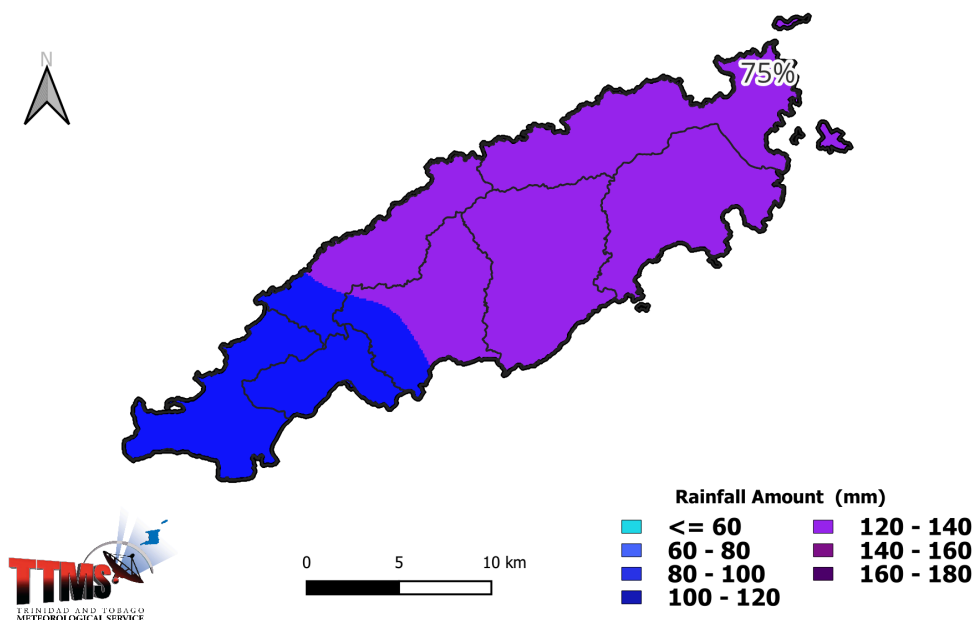
**Central, West-Central, and inland areas:** Moderate chance (70%) of mean daily rainfall up to 6.6 mm.

**Northern, North-Western areas:** Moderate chance (70%) of mean daily rainfall up to 6.7 mm.

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**Tobago Rainfall Forecast for the 15-Day period of November(16<sup>th</sup> – 30<sup>th</sup> ) 2024.**



**Figure 2. Rainfall map of Tobago showing expected mean rainfall totals for districts across Tobago during the 15-day period (16<sup>th</sup> – 30<sup>th</sup>) November and percentage probability of occurrence.**

**North-Eastern areas:** Moderate chance (70%) of mean daily rainfall up to 9.3 mm.

**South-Western areas:** Moderate chance (70%) of mean daily rainfall up to 7.3 mm.

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## **Trinidad and Tobago:**

### **Warm to very warm conditions and moderate to heavy amounts of rainfall are possible during the fifteen days.**

The outlook for the second half of November calls for higher rainfall amounts as compared to the first half of November due to our secondary peak of Wet season rainfall and the gradual transition to a weak La Niña by December. During the 16<sup>th</sup> to 30<sup>th</sup> of November, expect wet days 17<sup>th</sup> – 19<sup>th</sup> and 23<sup>rd</sup> – 25<sup>th</sup> with the daily rainfall totals forecast up to 25 mm and relatively wet days with moderate rainfall of 1 – 10 mm for the remainder of the period. During wet days, expect moderate to heavy rainfall and thunderstorms that may result in flash flooding, ponding, gusty winds and water-logged soils.

In Trinidad, the 15-day period forecast rainfall totals will range between 90 mm and 140 mm across different farmlands favouring central, eastern and northeastern areas of Trinidad: Cumuto, Valencia, Sangre Grande, Guaico/Tamana. In Tobago, 15-day forecast rainfall ranges between 100 mm and 140 mm across most farmlands, favouring northern and eastern areas of Tobago.

## **Temperatures & Winds:**

Even as temperatures lower from the 16<sup>th</sup> to 30<sup>th</sup> November, warm to very warm conditions are still likely as temperatures will remain above average for November. Forecast daily maximum temperatures will range from 30 °C to 33 °C. Factoring humidity on the hottest days, these temperatures are expected to feel as hot as 34 °C to 47 °C. The minimum temperatures will range from 23.0 °C to 25.0 °C during most nights/early mornings.

Gentle to moderate northeasterly to southeasterly winds of 20–28 km/h are expected to become stronger by the end of the period. Meanwhile strong gusts are likely near heavy showers/thunderstorms. Very warm days and higher feels-like temperatures will sustain average evapotranspiration rates in crops between 4.0 to 10.0 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-60s to upper 70s, in terms of percentage.

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### Highlighted Possible Impacts on Agriculture:

During the month of November, periods of rain and showers with thunderstorms will interrupt the warm to very warm conditions. The 15-day forecast rainfall totals will be near normal to slightly below normal despite daily heavy and/or thundery showers especially after midday. Although fewer hot days are likely, soil moisture loss remains possible. Scheduling of irrigation days on fields to maintain optimal soil moisture will likely remain necessary towards the end of November. There is a moderate (60%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate probability (50-70%) that strong winds and heavy showers may cause physical damage to young plants and flowering mature plants in exposed hilly areas. There is also a moderate probability (40%) chance for fungal spread, insect pests and warm/moist weather diseases to develop in crop beds. Opportunities for water harvesting will increase but remain lower than usual for November.

### Sun and Moon Positions in the Sky November (16<sup>th</sup> – 30<sup>th</sup>) 2024.

The sun is presently 19 degrees South of the Equator and the day-length or number of sunlight hours in Trinidad and Tobago on November 16<sup>th</sup> will be 11 hours, 37 minutes and 37 seconds decreasing to 11 hours, 33 minutes on November 30<sup>th</sup>.

Moon Phases: Third Quarter occurs 22<sup>nd</sup> November and New Moon occurs 1<sup>st</sup> December. According to the tradition of moon's phases: November 18<sup>th</sup> – 19<sup>th</sup>, 25<sup>th</sup> – 29<sup>th</sup> are good days for planting below-ground crops; the 25<sup>th</sup> – 26<sup>th</sup> are good days for planting above-ground crops; the remaining days are poor planting days and are useful for removing weeds, clearing land and ploughing fields.

### Summary of Expected conditions:

**Warm to very warm conditions and moderate to heavy amounts of rainfall are possible during the fifteen days.**

The outlook for the second half of November calls for higher rainfall amounts as compared to the first half of November due to the secondary rainfall peak of the Wet season and the gradual transition to a weak La Niña by December. During wet days, expect moderate to heavy rainfall and thunderstorms that may result in flash flooding, ponding, gusty winds and water-logged soils. Though temperatures will drop lower from the 16<sup>th</sup> to 30<sup>th</sup> November, warm to very warm conditions are still likely as temperatures remain above average for the time of year.

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