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## Agro-meteorological Bulletin and Assessment for Farmers and Livestock Producers of Trinidad and Tobago for the Second 15-Day Period (16<sup>th</sup> – 30<sup>th</sup>) of September, 2024

ISSUED AT: 12:05 PM

Date: Monday 16th of September 2024

### Definitions used in the forecast and bulletin

| Term                                | Meaning                                       |
|-------------------------------------|---|
| <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                                   |

| Term                       | Amount of Rain     | Type of day         |
|----------------------------|--------------------|---------------------|
| <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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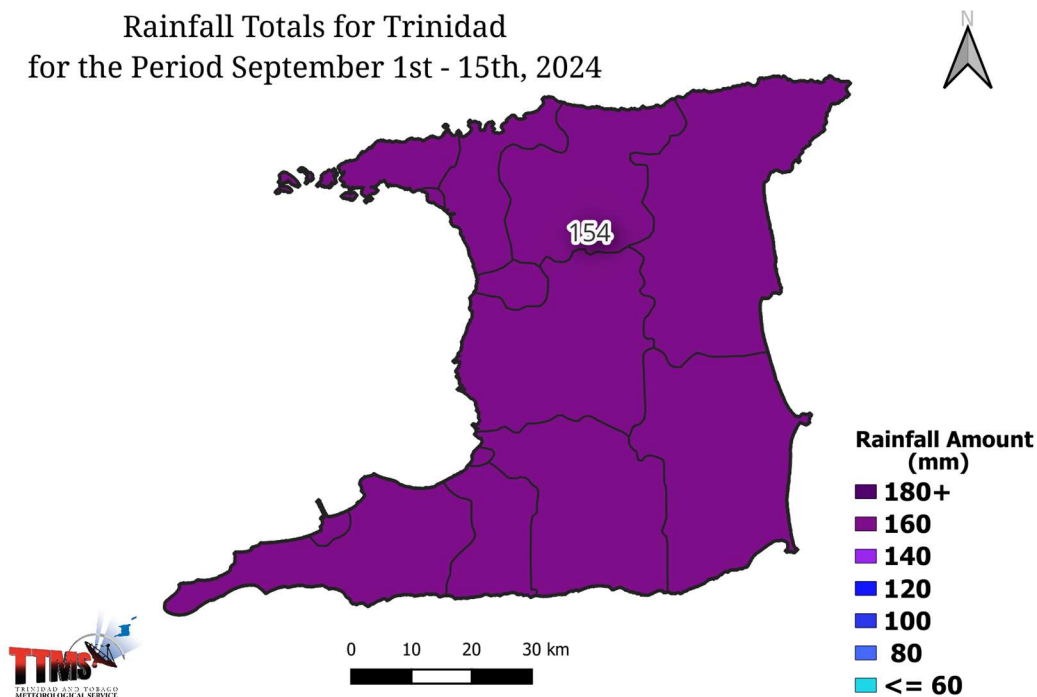
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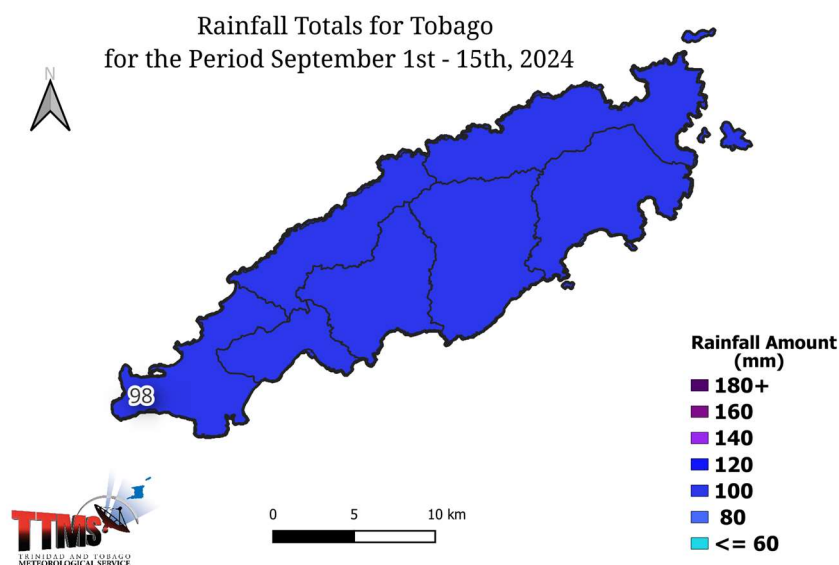
### Weather Assessment for the period September 1<sup>st</sup> to 15<sup>th</sup> 2024.

Moderate to heavy rainfall from September 1<sup>st</sup> to 15<sup>th</sup> resulted in cumulative rainfall amounts at Crown Point, 98.4 mm and Piarco, 154.3 mm. The rainfall totals maps for the period 1<sup>st</sup> to 15<sup>th</sup> of September 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 1<sup>st</sup> to 15<sup>th</sup> of September.**

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**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 September.**

### Temperatures:

Hot conditions dominated the first half of September. In Trinidad, a maximum daytime temperature of 34.9 °C and four hot days (maximum temperatures over 34.0 °C at Piarco) occurred during the 1<sup>st</sup> to 15<sup>th</sup> of September. Factoring the relative humidity however, these temperatures had a ‘real feel’ that was higher than the observed maximum. The minimum night-time temperatures ranged from 23.2 °C to 25.6 °C in Trinidad.

Tobago also experienced hot conditions with the maximum daytime temperature of 33.1 °C and two hot days (maximum temperatures above 33.0 °C at Crown Point) observed during the 1<sup>st</sup> to 15<sup>th</sup> of September. However, these temperatures felt hotter considering the relative humidity. The minimum night-time temperature ranged from 22.5 °C to 28.6 °C.

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### Summary of Expected Weather:










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

During the second half of September, wet days are expected 16<sup>th</sup>-18<sup>th</sup>, 22<sup>nd</sup> - 24<sup>th</sup> and 26<sup>th</sup> - 28<sup>th</sup> with the daily rainfall totals forecast up to 25 mm. Relatively wet days of up to 10.0 mm of rainfall are expected for the remainder of the period.

| Date             | Weather  |                                 | Temperature  | Heat 'Real Feel' | Day Moisture<br>(Relative Humidity) | Wind   |
|------------------|--|---------------------------------|--|------------------|-------------------------------------|--|
| 16 <sup>th</sup> | <br>70% chance of showers   | 5-12 mm of rainfall is possible | Partly cloudy with showers, isolated thunderstorms<br><br><br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.0 °C / 26.0 °C | Feels like 39°   | 63 - 78%                            | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h      |
| 17 <sup>th</sup> | <br>70% chance of showers | 5-12 mm of rainfall is possible | Partly cloudy with showers, isolated thunderstorms<br><br><br><b>Hot</b><br><br>Max/Min Temperatures<br>34.0°C / 26.0°C       | Feels like 41°   | 60 - 75%                            | <br>Moderate<br><br>East to Southeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h |










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| Date             | Weather  |                                 | Temperature  | Heat 'Real Feel'      | Day<br>Moisture<br>(Relative<br>Humidity) | Wind   |
|------------------|--|---------------------------------|--|-----------------------|---|--|
| 18 <sup>th</sup> | <br>40% chance of showers   | 5-12 mm of rainfall is possible | Partly cloudy with showers, isolated thunderstorms<br><br><br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.5°C / 26.0°C | Feels like 39°        | 59 - 75%                                  | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h      |
| 19 <sup>th</sup> | <br>30% chance of showers  | 2-9 mm of rainfall is possible  | Partly cloudy with showers, isolated thunderstorm<br><br><br><b>Hot</b><br><br>Max/Min Temperatures<br>34.5°C / 26.0°C       | Feels like 40°        | 58 - 64%                                  | <br>Moderate<br><br>East to Southeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h  |
| 20 <sup>th</sup> | <br>30% chance of showers | 2-9 mm of rainfall is possible  | Partly cloudy with showers, isolated thunderstorm<br><br><br><b>Hot</b><br><br>Max/Min Temperatures<br>34.5°C / 26.0°C      | Feels like<br><br>40° | 58 - 62%                                  | <br>Moderate<br><br>East to Southeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h |










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| Date             | Weather  |                                 | Temperature   | Heat 'Real Feel'   | Day Moisture (Relative Humidity) | Wind     |   |
|------------------|--|---------------------------------|---|--|----------------------------------|----------|---|
| 21 <sup>st</sup> | <br>30% chance of showers   | 2-9 mm of rainfall is possible  | Partly cloudy with showers, isolated thunderstorm   | <br><b>Hot</b><br>Max/Min Temperatures<br>34.5°C / 26.0°C         | Feels like 40 <sup>o</sup>       | 55 - 70% | <br>Moderate<br>East-northeasterly<br>18 - 27 km/h<br>Gust 40 km/h   |
| 22 <sup>nd</sup> | <br>70% chance of showers  | 5-12 mm of rainfall is possible | Partly to mostly cloudy with showers, thunderstorms | <br><b>Hot</b><br>Max/Min Temperatures<br>34.0°C / 26.0°C        | Feels like 40 <sup>o</sup>       | 56 - 73% | <br>Moderate<br>East-northeasterly<br>18 - 27 km/h<br>Gust 40 km/h   |
| 23 <sup>rd</sup> | <br>70% chance of showers | 5-25 mm of rainfall is possible | Partly to mostly cloudy with showers, thunderstorms | <br><b>Very Warm</b><br>Max/Min Temperatures<br>33.0°C / 25.0°C | Feels like 39 <sup>o</sup>       | 65 - 76% | <br>Moderate<br>East-northeasterly<br>18 - 27 km/h<br>Gust 40 km/h |










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| Date             | Weather  |                                 |   | Temperature  | Heat 'Real Feel'                  | Day Moisture<br>(Relative Humidity) | Wind  |
|------------------|--|---------------------------------|---|--|-----------------------------------|-------------------------------------|---|
| 24 <sup>th</sup> | <br>70% chance of showers   | 5-25 mm of rainfall is possible | Partly to mostly cloudy with showers, thunderstorms | <br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.0°C / 25.0°C   | Feels like<br><br>39 <sup>°</sup> | 61 - 78%                            | <br>Moderate<br>East to Southeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h  |
| 25 <sup>th</sup> | <br>40% chance of showers  | 2-8 mm of rainfall is possible  | Partly cloudy with showers                          | <br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.0°C / 25.0°C  | Feels like<br><br>39 <sup>°</sup> | 57 - 64%                            | <br>Moderate<br>East to Southeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h |
| 26 <sup>th</sup> | <br>40% chance of showers | 5-12 mm of rainfall is possible | Partly cloudy with showers                          | <br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.5°C / 24.0°C | Feels like<br><br>38 <sup>°</sup> | 54 - 62%                            | <br>Moderate<br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h   |

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| Date             | Weather  |                                 | Temperature   | Heat 'Real Feel'  | Day Moisture (Relative Humidity) | Wind     |   |
|------------------|--|---------------------------------|---|---|----------------------------------|----------|---|
| 27 <sup>th</sup> | <br>70% chance of showers   | 5-12 mm of rainfall is possible | Partly to mostly cloudy with showers, thunderstorms | <br><b>Very Warm</b><br><br>Max/Min Temperatures<br>33.0°C / 24.0°C    | Feels like 39°                   | 62 - 71% | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h   |
| 28 <sup>th</sup> | <br>70% chance of showers  | 5-12 mm of rainfall is possible | Partly to mostly cloudy with showers, thunderstorms | <br><b>Very Warm</b><br><br>Max/Min Temperatures<br>32.5°C / 25.0°C   | Feels like 39°                   | 65 - 75% | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h   |
| 29 <sup>th</sup> | <br>70% chance of showers | 2-8 mm of rainfall is possible  | Partly cloudy with showers, isolated thunderstorm   | <br><b>Very Warm</b><br><br>Max/Min Temperature s<br>33.5°C / 25.0°C | Feels like 39°                   | 56 - 68% | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h |

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| Date             | Weather   |   | Temperature   | Heat 'Real Feel' | Day<br>Moisture<br>(Relative<br>Humidity) | Wind  |
|------------------|---|---|---|------------------|---|---|
| 30 <sup>th</sup> | <br>70% chance of<br>showers | 2–8 mm<br>of rainfall<br>is<br>possible | Partly cloudy with<br>showers, isolated<br>thunderstorm<br><br><br><b>Hot</b><br><br>Max/Min<br>Temperature s<br>34.0°C / 25.0°C | Feels like 40    | 56 - 70%                                  | <br>Moderate<br><br>East-northeasterly<br><br>18 - 27 km/h<br><br>Gust 40 km/h |

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

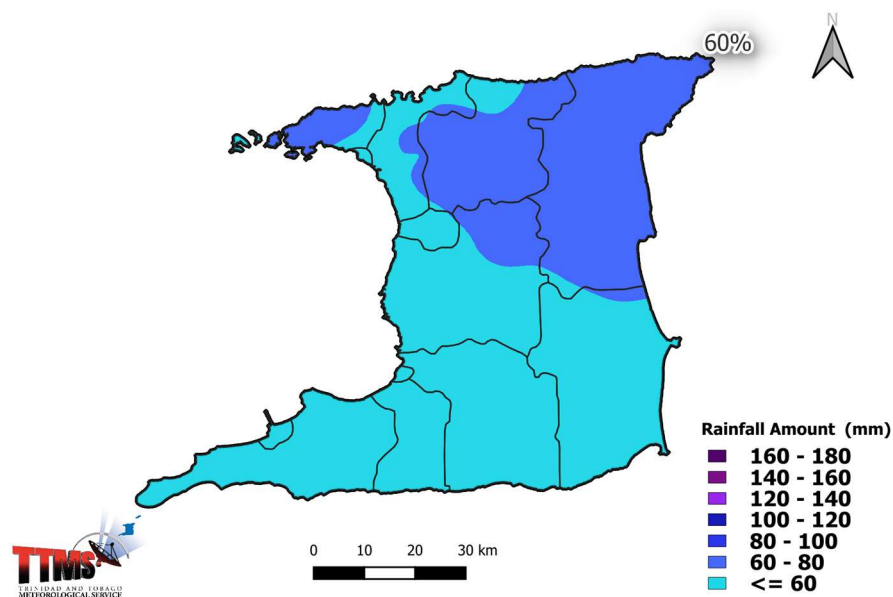


Figure 1. Rainfall map of Trinidad showing expected mean rainfall totals for districts across Trinidad during the 15-day period (16<sup>th</sup> – 30<sup>th</sup>) September 2024 and percentage probability of occurrence.

#### Eastern and North-Eastern areas:

Moderate chance (60%) of mean daily rainfall up to 4.5 mm.

#### South-Eastern areas:

Moderate chance (60%) of mean daily rainfall up to 2.9 mm.

#### Southern areas

Moderate chance (60%) of mean daily rainfall up to 2.9 mm.

#### South-Western areas

Moderate chance (60%) of mean daily rainfall up to 2.9 mm.

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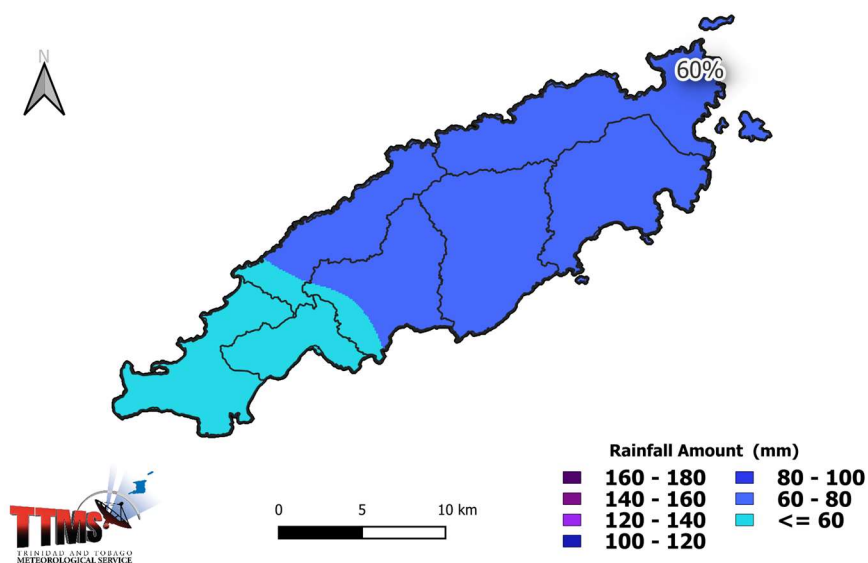
### Central, West-Central, and inland areas

Moderate chance (60%) of mean daily rainfall up to 3.4 mm.

### Northern, North-Western areas

Moderate chance (60%) of mean daily rainfall up to 3.8 mm.

### **Tobago Rainfall Forecast for the 15-Day period of September (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>) September and percentage probability of occurrence.**

### North-Eastern areas

Moderate chance (60%) of mean daily rainfall up to 4.9 mm.

### South-Western areas

Moderate chance (60%) of mean daily rainfall up to 3.9 mm.

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### **Trinidad and Tobago:**

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

During the second half of September, wet days are expected 16<sup>th</sup>-18<sup>th</sup>, 22<sup>nd</sup>- 24<sup>th</sup> and 26<sup>th</sup> - 28<sup>th</sup> with the daily rainfall totals forecast up to 25 mm alongside relatively wet days of up to 10.0 mm of rainfall expected for the remainder of the period.

In Trinidad, the 15-day rainfall totals range between 44.0 mm and 69.0 mm across different farmlands favouring northern and northeastern areas of Trinidad: Petit Valley, Diego Martin, Toco, Sangre Grande, Fishing Pond, Cumuto and Valencia. In Tobago, 15-day rainfall totals range between 54.0 mm and 74.0 mm favouring northern and eastern areas: Hillsborough, Roxborough, Speyside and Charlotteville.

### **Temperatures & Winds:**

Hot conditions are likely from 16<sup>th</sup> to 30<sup>th</sup> September. Daily maximum temperatures are expected to range from 31.0 °C to 35.0 °C. Factoring humidity on the hottest days, these temperatures are expected to feel as hot as 35.0 °C to 45.0 °C. The minimum temperatures will range from 25.0 °C to 27.0 °C during most nights/early mornings.

In general, mostly moderate northeasterly to southeasterly winds of 18–27 km/h are expected with strong gusts during heavier showers/thunderstorms. Moderate to heavy rainfall totals combined with hot 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 lower-60s to upper-80s, in terms of percentage.

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### Highlighted Possible Impacts on Agriculture:

During the second half of September expect hot conditions interrupted by showery episodes: mostly sunny days and partly cloudy nights with occasional showers that can be heavy and/or thundery especially after midday. Near normal to slightly below normal rainfall and short hot spells will increase soil moisture loss. Scheduling of irrigation days on fields to maintain optimal soil moisture will be necessary on most days. There is a high (70%) chance of heat stress in young livestock, newly germinated and transplanted seedlings onto fields. There is a moderate probability (40-60%) 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.

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

The sun is presently at 2.3 degrees North latitude and with this position, the day-length or number of sunlight hours in Trinidad and Tobago on September 16<sup>th</sup> will be 12 hours, 9 minutes and 59 seconds decreasing to 12 hours, 1 minute, 50 seconds on September 30<sup>th</sup>.

Moon Phases: Full Moon occurs on September 17<sup>th</sup>, Third Quarter on September 24<sup>th</sup>. According to the tradition of moon's phases: September 16<sup>th</sup> – 17<sup>th</sup> are good days for planting above-ground crops; 20<sup>th</sup> – 21<sup>st</sup> and 24<sup>th</sup> – 25<sup>th</sup> are good days for planting below-ground crops; the remaining days are poor planting days and are useful for removing weeds, clearing land and ploughing fields.

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