



CLIMATE SUMMARY FOR GITEGA - OCTOBER 2024

1. DAILY TIME SERIES

1.1. Maximum, Average and minimum daily temperature

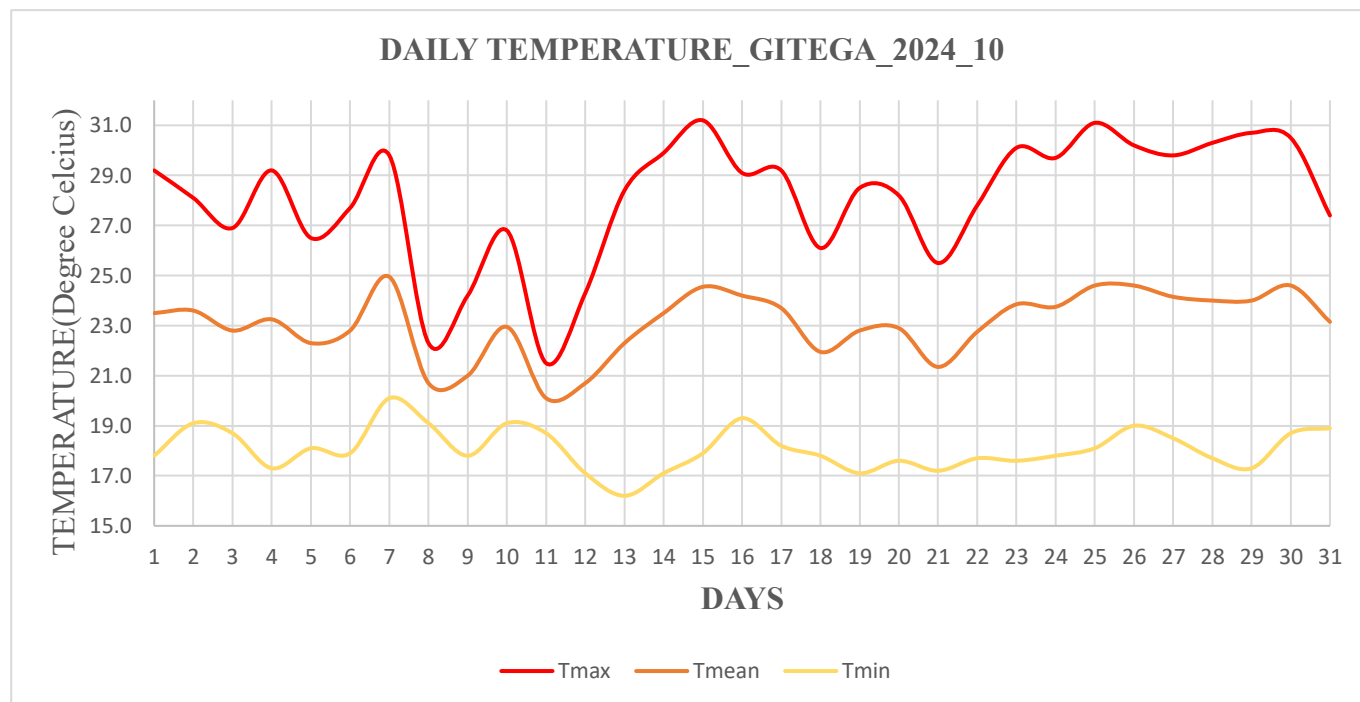


Figure 1: Tmax, Tmean and Tmin.

In October 2024, Gitega station encountered a variety of weather conditions, marked by fluctuations in temperature between warm and cool days. During this month, 14 days had average temperatures below the overall monthly average of 23.1°C, while 17 days recorded average temperatures below this monthly figure.



1.2.Daily Precipitation

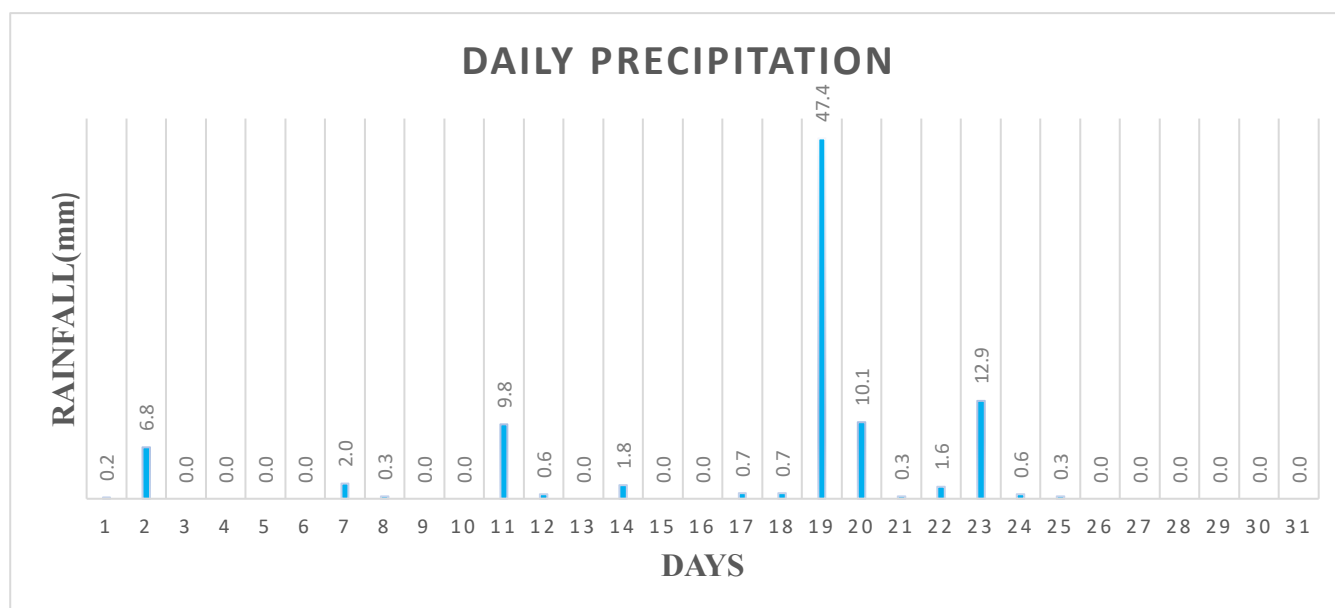


Figure 2: Rainfall

In October, rainfall was intermittent throughout the month. The second ten-day period saw heavy rainfall, while the third ten-day period received less compared to the others. Notably, on October 19, 2024, a significant rainfall event of 47.4 mm was recorded.



Average Relative humidity

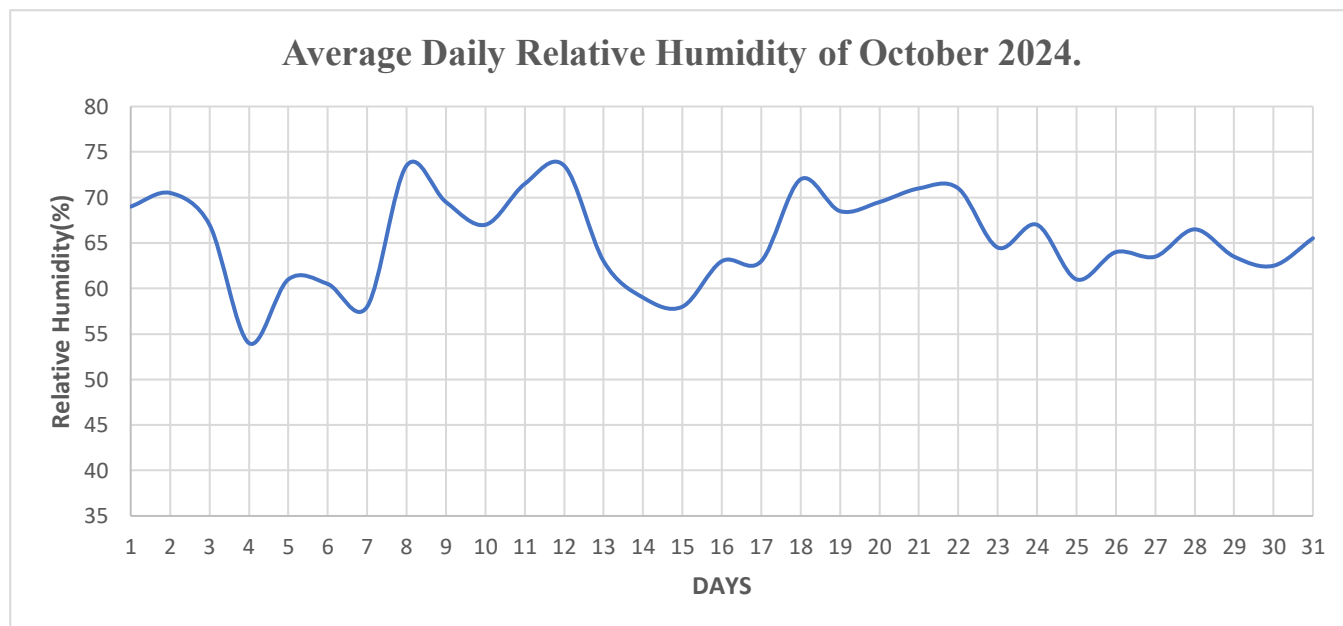


Figure 3: Average Relative humidity

In October, Gitega station experienced moderate relative humidity levels averaging 66%. During this month, 16 days we recorded humidity below the monthly average, while 15 days exceeded it



1.3.Sunshine hours

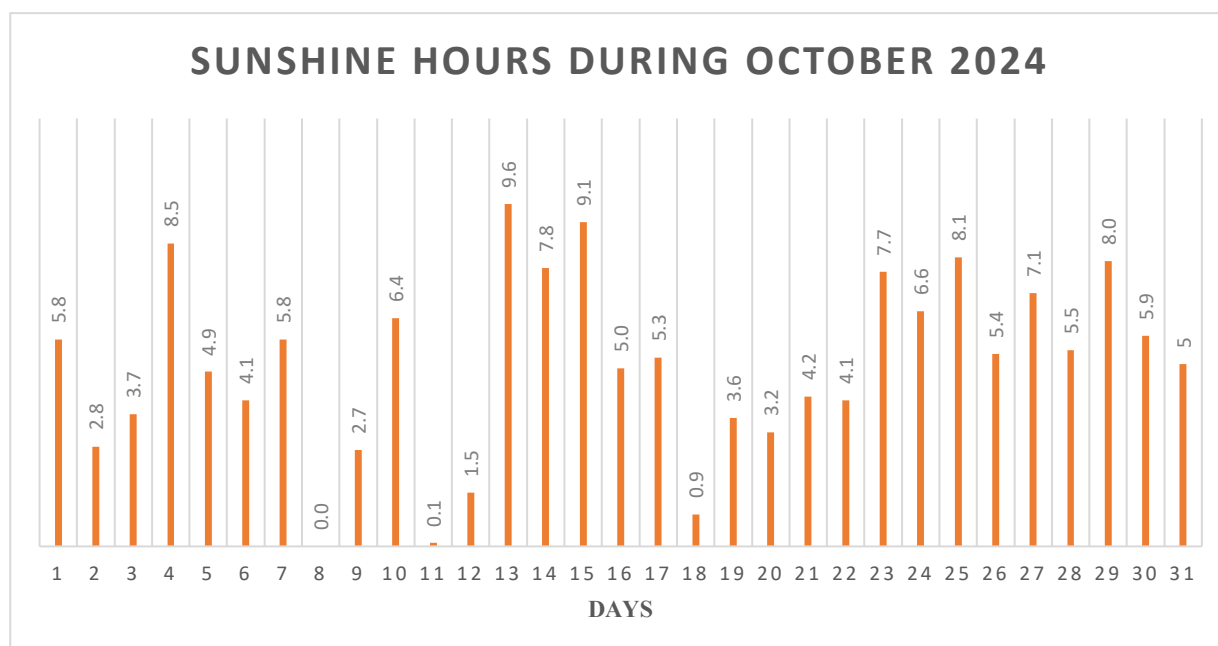


Figure 4: Sunshine hours

In October, the average daily sunshine duration was approximately 5 hours and 6 minutes, with more sunshine occurring in the afternoons than in the mornings. Notably, on October 8, no sunshine was recorded at all.



2. CLIMATE EXTREMES

Warmest day	15/10/2024	31.2⁰C
Coldest night	13/10/2024	16.2⁰C
Wettest day	19/10/2024	47.4mm
Sunniest day	13/10/2024	9.6 hours
Windy day	No automatic data available	N/A

Table 1: Climate Extremes



3. CLIMATE STATISTICS

3.1. Temperature

Parameters	Actual Temperature(°C)	Anomaly(°C) (1991-2020)	Rank		Series length (1983-2024)
			warmest	coldest	
Mean Maximum Temperature	28.1	+0.6	11	32	42
Mean Temperature	23.1	+1.3	3	40	42
Mean Minimum Temperature	18.1	+1.9	1	42	42

Table 2: Long-term temperature statistics.

3.2. Rainfall

Actual Rainfall	Average (%) (1991-2020)	Rank		Series length (1991-2024)
		Wettest	driest	
96.1 mm	- 12.0%	22	13	34

Table 3: Long-term rainfall statistics.



3.3.Sunshine

Actual sunshine hours	Average (%) (2010-2024)	Rank		Series length (2010-2024)
		Sunniest	Coldest	
187.2	+20.12%	1	8	8

Table 4:Long-term sunshine statistics

Note:

- From 2010 to 2024, seven years had missing sunshine hour's data of October. As a result, the average, anomaly, and rank have been calculated based only on the months with available data. As indicated in Table 4, only eight years within the mentioned period recorded sunshine hour data for October.