





WEATHER DATA COLLECTED DURING THE SUMMER 2024 SEASON AT GITEGA METEOROLOGICAL ST ATION.





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CHAPTER 1: WEATHER DATA FOR THE MONTH OF AUGUST

This chapter provides an overview of the observed data, emphasizes the key findings, and illustrates the weather patterns for the month of August 2024.

1.1. MAXIMUM AND MINIMUM TEMPERATURE AND RAINFALL.

Average Maximum and Minimum temperature and total rainfall of August are summarized in Table 1.1.

Average	Maximum	Minimum	Total rainfall
temperature	temperature	temperature	
23.1°C	28.33°C	17.9°C	49 mm

Table 1.1: Temperature and Total Rainfall.

1.2. OTHER SIGNIFICANT DATA

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PARAMETER	VALUE	DAY	
Highest Maximum temperature	30.6° C	28 ¹ 08/2024	
Lowest Maximum temperature	24.3°C	$22^{0}8/2024$	
Highest Minimum temperature	20.3°C	$10^{0}/08/2024$	
Lowest Minimum temperature	15.8°C	23'08/2024	
Highest Rainfall	16,7 mm	11/08/224	
Highest minimum Grass temperature	18.4 ^o C	10/082024	
Average Grass minimum temperature	15.2°C	N/A	
Lowest Minimum Grass temperature	11.2°C	06/08/2024	
Highest Insolation	9 Hours 12min	04/08/2024	
Lowest Insolation	36 min	01/08/2024	
Highest Piche evaporation	8.8 mm	6/08/2024	
Lowest Piche evaporation	2.9 mm	16/08/2024	
Highest BAC evaporation	5.9 mm	05/08/204	
Lowest BAC evaporation	2.3 mm	01/08/2024	

Table 1.2: Summary of Maximum and Minimum Observed Data.

1.3. SOIL TEMPERATURES

Table 1.3 summarizes the average temperatures recorded by various soil thermometers at 6:00 AM, 12:00 PM, and 18:00 PM.

HEIGHT	06:00	12:00	18:00
10Cm	22.7	24.1	25.4
20Cm	23.7	23.8	24.8
50Cm	24.7	24.7	24.6
100Cm	24.6	24.6	24.6

Table 1.3: The Mean soil temperatures.





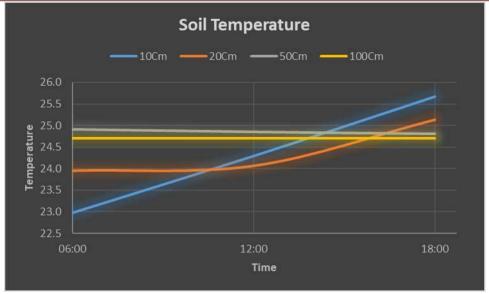


Figure 1.1: Variation of Soil temperature during a day.

1.4. PICHE AND BAC EVAPORATION

Table 1.4 displays the average evaporation rate at Piche and BAC.

EVAPORATION TIME	PICHE	BAC
18H00-06H00	23.1	17.4
08H00-08H00	5.9	3.8
06H00-18H00	3.6	3.8

Table 1.4: BAC and Piche Evaporation.

1.5. INSOLATION

Table 1.5 provides a summary of the recorded insolation for the month of August.

	AM	PM	TOTAL
TOTAL	98 hours 12min	99 hours 42min	197 hours 54min
AVERAGE	3h 10min	3h 13min	6 hours 23min

Table 1.5: Insolation