



## Agrometeorological Bulletin N° 28/2024, Dekad 1-October (01<sup>st</sup>-10<sup>th</sup>) 2024

Issued on 12<sup>th</sup> October 2024

### Summary

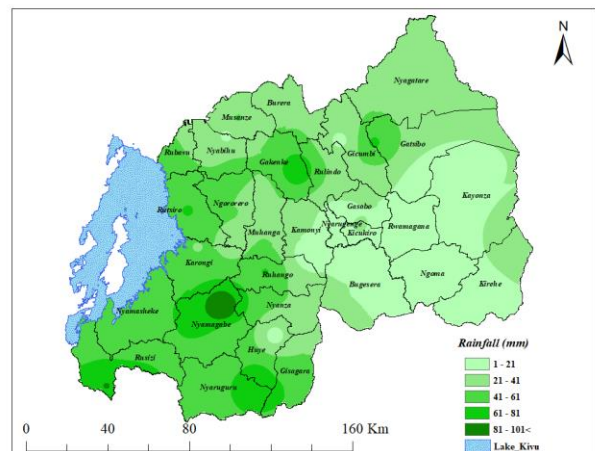
The analysis shows that rainfall surplus compared to the Long Term Mean (LTM) marked the First dekad (from 01<sup>st</sup>-10<sup>th</sup>) of October 2024 with exception of most parts of Kigali City, Eastern and Northern Provinces and as well as Kamonyi, Nyamasheke and Nyabihu Districts, which observed rainfall deficit. The rainy days ranged between one and seven days across the country. The observed mean temperature was slightly above the range of the Long Term Mean in many parts of the country.

### 1.0 Rainfall Pattern

This part contains the recorded rainfall amount, rainfall anomalies and comparison to the observed rainfall against the Long-Term Mean (LTM).

#### 1.1. Rainfall Amount

The cumulative rainfall of the 1<sup>st</sup> dekad of October 2024 is represented in Map 1. It was noted that during this dekad; some parts of Western and Southern Province, and Gakenke, Rulindo and Gatsibo Districts, received high rainfall compared to the remaining parts of the country. The highest rainfall amount of 102.3 mm was recorded over Kaduha station located in Nyamagabe District in six rainy days, followed by Bugarama station located in Rusizi District, which observed 81.3 mm in seven rainy days, Rushashi station in Gakenke District, recorded 78.3 mm in four rainy days and Nyakibanda (Grand Seminaire) station in Huye District, recorded 71.3 mm in five rainy days.

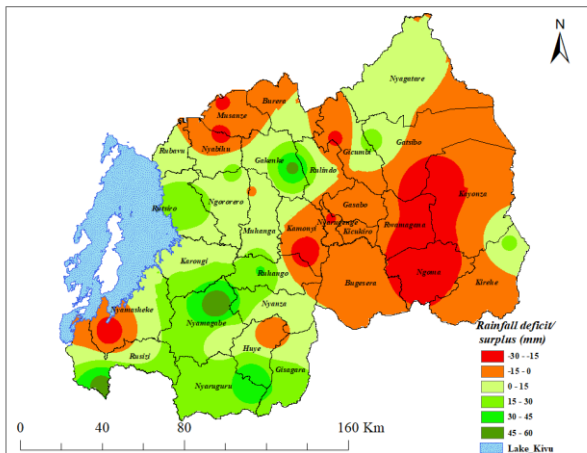


Map 1: Rainfall amount during 1<sup>st</sup> dekad of October 2024



## 1.2 Rainfall Anomaly (Deficit and Surplus)

The rainfall anomaly over the country is displayed in map 2. Compared to the Long Term Mean (LTM), first dekad of October 2024 was characterized by rainfall surplus over many parts of the country. However, most parts of Kigali City, Eastern and Northern Provinces and as well as Kamonyi, Nyamasheke and Nyabihu Districts, observed rainfall deficit.



Map 2: Rainfall anomaly during the 1<sup>st</sup> dekad of October 2024

## 1.3. Comparison of observed rainfall with LTM for the 1<sup>st</sup> dekad of October 2024

The comparison of recorded rainfall amount in the 1<sup>st</sup> dekad of October 2024 and the Long-term mean (LTM) across the country is shown in both Figure 1 (a) and (b); some weather stations reported high rainfall amount compared to the LTM as other observed less rainfall. This is demonstrated by the analysis, which revealed that twenty two (22) stations reported rainfall surplus, as twenty-two (22) stations recorded rainfall deficit.

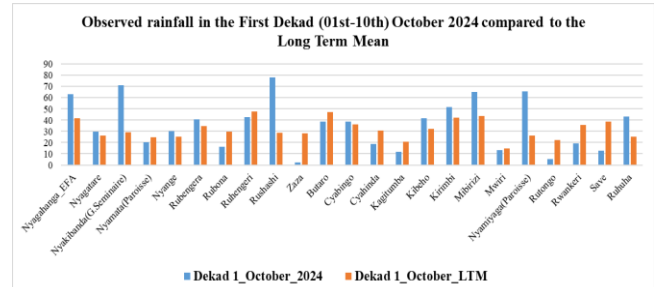
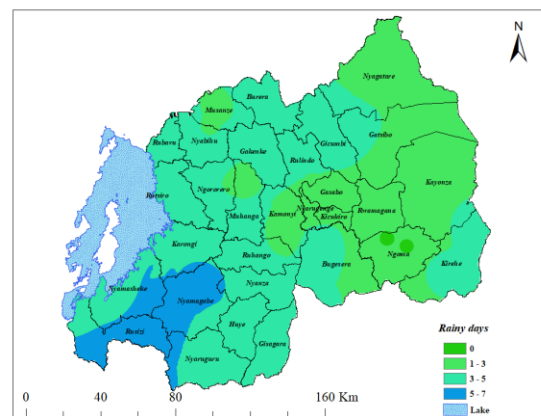


Figure 1(b): Comparison of observed rainfall in the 1<sup>st</sup> dekad of October 2024 with long term mean

## 1.4 Number of Rain Days

The Map 3 shows the distribution of the number of rainy days across the country. A rainy day is defined as a day with at least 0.85 mm of rainfall. The analysis demonstrated that the rainy days were ranged between one to seven days. However, there are two weather stations (Kibungo and Zaza) located in Ngoma District, which did not record any rainy days during this Dekad.



Map 3: Rainy days during 1<sup>st</sup> dekad of October 2024

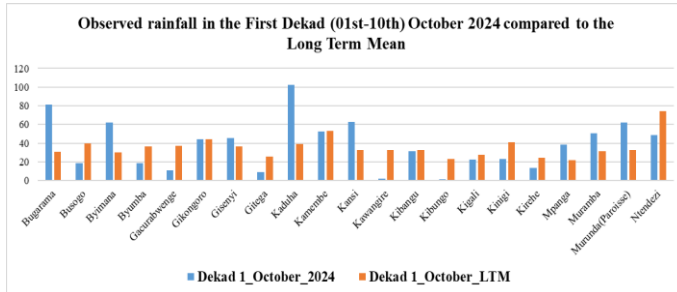


Figure 1(a): Comparison of observed rainfall in the 1<sup>st</sup> dekad of October 2024 with long term mean

## 2.0 Temperature observation

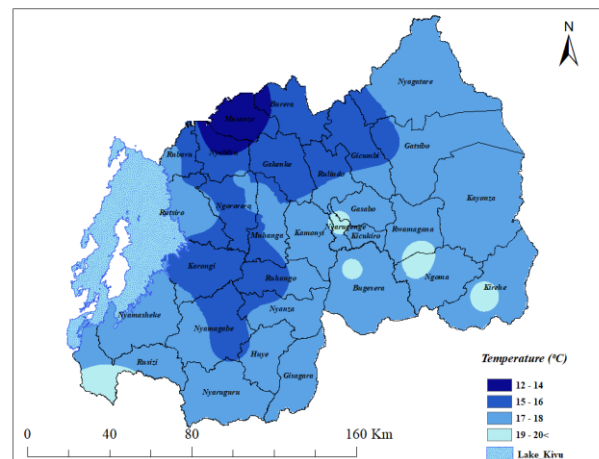
The average Maximum and Minimum temperature across the country is highlighted in the section below.

### 2.1 Mean Maximum Temperature

Map 4: represents the mean maximum temperature distribution across the country during the 1<sup>st</sup> dekad of October 2024. The maximum temperature was slightly above the normal range of Long-Term Mean (LTM) over many parts of the country. The lowest maximum temperature of 19.9°C was recorded over Kinigi station (Musanze District) while the highest maximum temperature of 30.8°C was recorded over Bugarama station (Rusizi District). Rusizi District was warmer compared to the remaining parts.

## 1.5 Soil moisture condition

Soil moisture was increased in many parts of the country during the first dekad of October, and it is likely to continue increasing in the 2<sup>nd</sup> dekad of October 2024 as a result of predicted rainfall that will be above the range of Long Term Mean (LTM) of the second dekad of October.



Map 5: The mean Minimum Temperature for the 1<sup>st</sup> dekad of October 2024

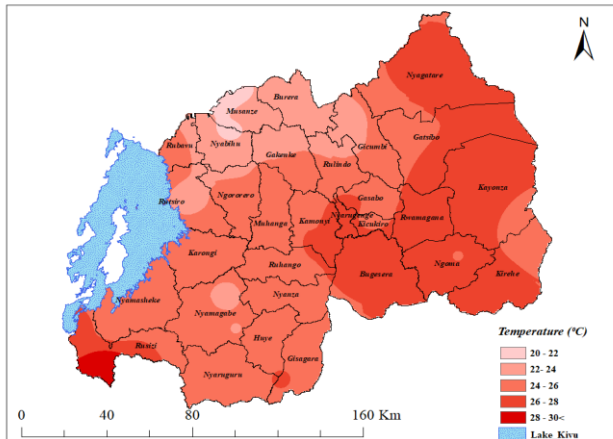
## 3.0 Weather Outlook and Agricultural advisories for the 2<sup>nd</sup> dekad of October (11<sup>th</sup> to 20<sup>th</sup>), 2024.

### 3.1. Weather Outlook for the 11<sup>th</sup> to 20<sup>th</sup> October 2024.

Please click [here](#) for more information on weather forecast for the 2<sup>nd</sup> dekad of October 2024.

### 3.2 Agricultural Activity/Advisories

This second dekad of October is expected to have rainfall above the Long Term Mean (LTM)



Map 4: Mean Maximum Temperature for the 1<sup>st</sup> dekad of October 2024

## 2.2 Minimum Temperature

The average minimum temperature across the country is shown in Map 5. The minimum temperature was slightly above the range of the Long term mean over many parts of the country during the 1<sup>st</sup> dekad of October 2024. The lowest minimum temperature of 12.3 °C was recorded at Busogo station in Musanze District while the highest minimum temperature of 20.7°C was recorded over Bugarama weather station in Rusizi station. Nyabihu, Musanze and Burera Districts were highlighted as the coldest areas than the remaining parts.

range, which is inconsistent with previous dekad. However, the expected rainfall will decrease in some areas over Kigali city, Eastern and Southern Provinces. Farmers are recommended to start sowing and to meet with agronomists in their respective locations for further information on agriculture Season A.

. They are also advised to contact veterinarians in their respective localities for assistance in monitoring diseases that may affect their animals as a result of seasonal shifts.

For more meteorological information, you can visit Meteo Rwanda's website:

[www.meteorwanda.gov.rw](http://www.meteorwanda.gov.rw) or call the tollfree number 6080.