Agrometeorological Bulletin Nº 10/2025, Dekad 1-April (01st – 10th) 2025

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Summary

The analysis showed that during the first dekad (from 01st to 10th) of April 2025, many parts of country experienced rainfall surplus compared to the Long Term Mean (LTM) of this dekad.However, some parts of Kigali City, Western and Southern Provinces as well as Bugesera , Kirehe and Musanze Districts experienced rainfall deficit. The number of rainy days across the country ranged between two and nine. The observed mean temperature was slightly above the range of the Long Term Mean in many parts of the country.

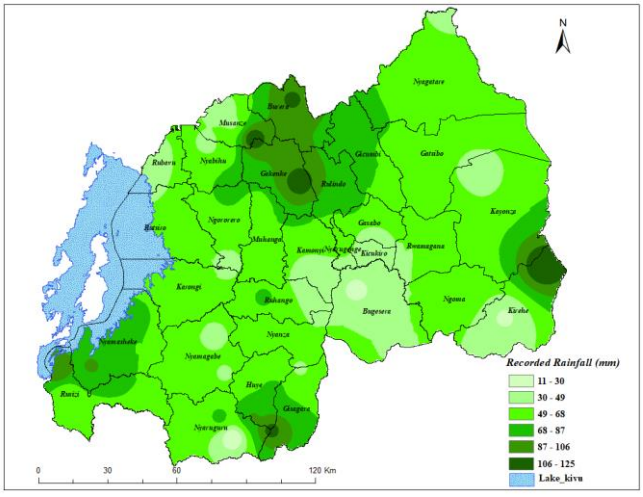
1.0 Rainfall Pattern

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 1st dekad of April 2025 is represented in Map 1. It was noted that during this dekad; some parts of Northern Province, Kirehe, Kayonza, Gisagara, Huye and Rusizi Districts received much rainfall compared to the remaining parts of the country. The highest rainfall amount of 124.8 mm was recorded over Cyabingo station located in Gakenke District in six rainy days, followed Mpanga station located in Kirehe District, which observed 124.1 mm in eight rainy days and Rushashi station located in Gakenke District observed 118.8 mm in six rainy days. While Cyahinda station located in Nyaruguru District recorded less rainfall amount of 10.7 mm during this first dekad of April 2025.

1.2 Rainfall Anomaly (Deficit and Surplus)



Map 1: Rainfall amount during 1st dekad of April 2025

1.3. Comparison of observed rainfall with LTM for the first dekad of April 2025

The comparison of recorded rainfall amount in the 1st dekad of April 2025 and the Long-term

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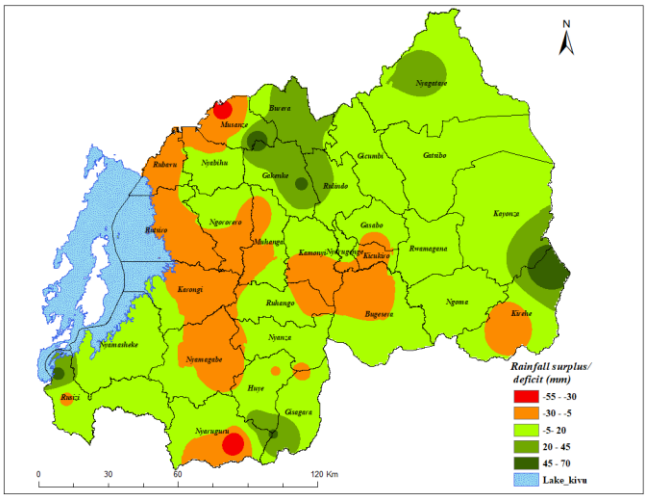
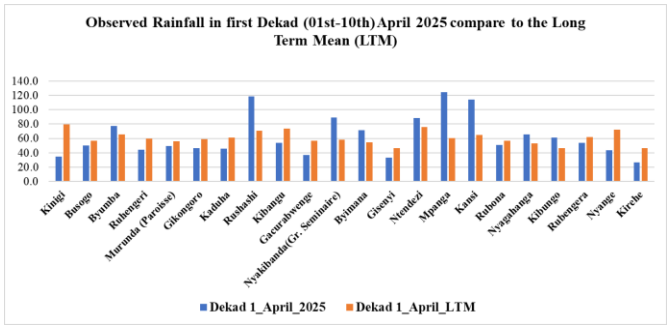
The rainfall anomaly over the country is displayed in map 2. Compared to the Long Term Mean (LTM), the first dekad of April 2025 was characterized by rainfall surplus over many parts of the country. However some parts of Kigali City, Western and Southern Provinces as well as Bugesera, Kirehe and Musanze Districts experienced rainfall deficit.



Map 2: Rainfall anomaly during the 1st dekad of April 2025

mean (LTM) across the country is shown in both Figure 1 (a) and (b) where most parts of country observed high rainfall amount compared to the LTM. This is demonstrated by the analysis, which indicates that twenty - three (23) stations out of 44 stations reported rainfall surplus while twenty-one (21) stations recorded rainfall deficit during this first dekad of April 2025.



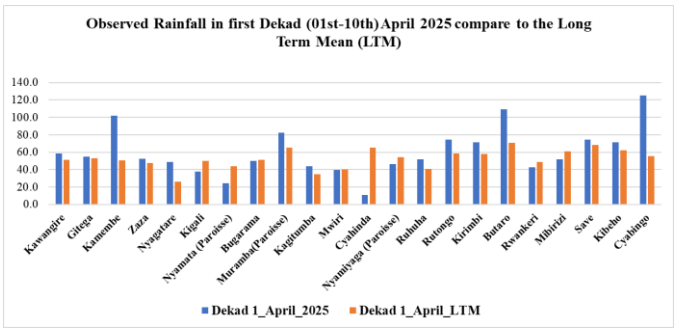


Figure 1 (a&b): Comparison of observed rainfall in the 1st dekad of April 2025 with long term mean

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

2.0 Temperature observation

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

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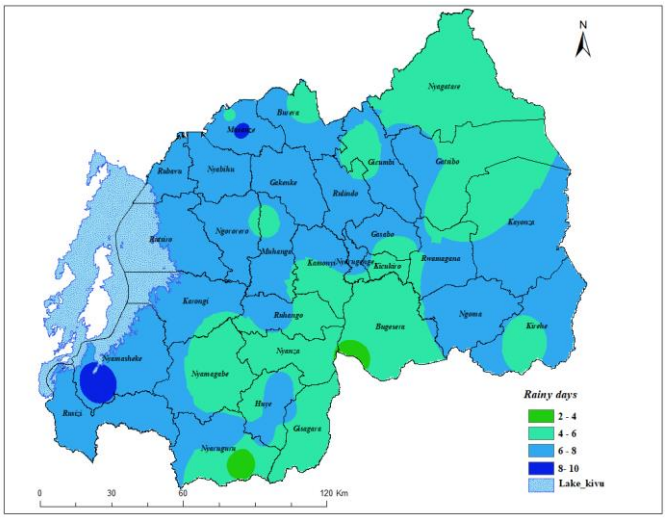
ranged between two and nine days. Many rainy days were observed over Nyamasheke and Musanze Districts while few rainy days were observed over Nyaruguru and Bugesera Districts during this first dekad of April 2025.



Map 3: Rainy days during 1st dekad of April 2025

1.5 Soil moisture condition

Soil moisture content was increased in many parts of the country during the first dekad of April 2025, and it is expected to continue increasing during the second dekad of April 2025, due to the expected rainfall which will be above the rainfall in the previous dekad.

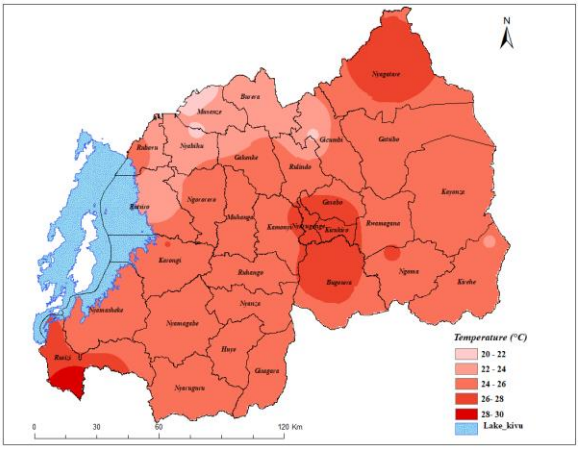
2.2 Minimum Temperature

The average minimum temperature across the country is shown in Map 5. The minimum temperature was above the range of the Long term mean over most parts of the country during the 1st

2.1 Mean Maximum Temperature

Map 4: represents the mean maximum temperature distribution across the country during the 1st dekad of April 2025 . The maximum temperature was slightly above the range of Long-Term Mean (LTM) over many parts of the country. The lowest maximum temperature of 20.2°C was recorded over Kinigi station (Musanze District) while the highest maximum temperature of 29.8°C was recorded over Bugarama station in Rusizi District.

Rusizi District (particulary in Bugarama plain) was warmer compared to the remaining parts of country.



Map 4: Mean Maximum Temperature for the 1st dekad of April 2025

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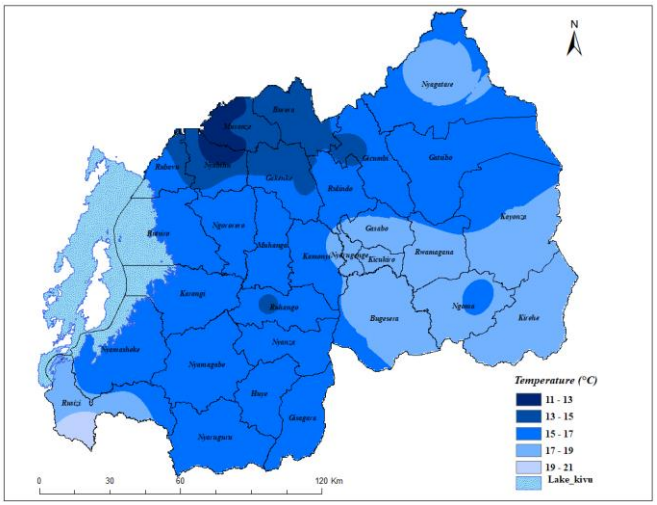
dekad of April 2025 . The lowest minimum temperature of 11.3°C was recorded at Busogo station in Musanze District while the highest minimum temperature of 20.5°C recorded over Bugarama weather station in Rusizi District.

Musanze and Nyabihu Districts were highlighted as the coldest regions than the remaining parts of the country during this dekad.



Map 5: The mean Minimum Temperature for the 1st dekad of April 2025

3.0 Weather Outlook and Agricultural advisories for the second dekad of April (11th to 20th), 2025.

3.1. Weather Outlook for the 11th to 20th April 2025.

Please click here for more information on weather forecast for the second dekad of April 2025.

3.2 Agricultural Activity/Advisories

Due to the enhanced rainfall expected , which will be above the range of the long-term mean (LTM) of the second dekad of April 2025, and the soil already being saturated in many areas of the country, farmers are encouraged to continue their agricultural activities, they should also consult with agronomists for advice on how to monitor crops during this Season B.

Farmers are also advised to implement measures to prevent floods and soil erosion, such as digging trenches, ensuring proper drainage system, and collecting rainwater for future use.

For livestock, they are recommended to work closely with veterinarians to receive guidance on monitoring diseases associated with wet weather conditions.

For more meteorological information, you can visit **Meteo Rwanda's website**: www.meteorwanda.gov.rw or call the tollfree n number 6080.

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