



Agrometeorological Bulletin No.20, Dekad2, July (11–20) 2020 Issued on 22nd July 2020

Summary

The second Dekad (11-20) of July 2020; Kigali International Airport, Byimana, Busogo Rubavu and Rubengera stations recorded above Long Term Mean rainfall while the rest of the country no rainfall recorded which was normal in this observation period. The highest rainfall amount of 16mm was recorded at Busogo station in the Northern Province.

The temperature was within the range of LTM. The maximum temperature ranged between 19.7°C in Gicumbi and Musanze Districts and 29.7°C in Rusizi District at Bugarama station. Minimum temperature ranged between 11.0°C at Busogo station in Musanze District and 17.7°C in Rusizi District at Bugarama station.

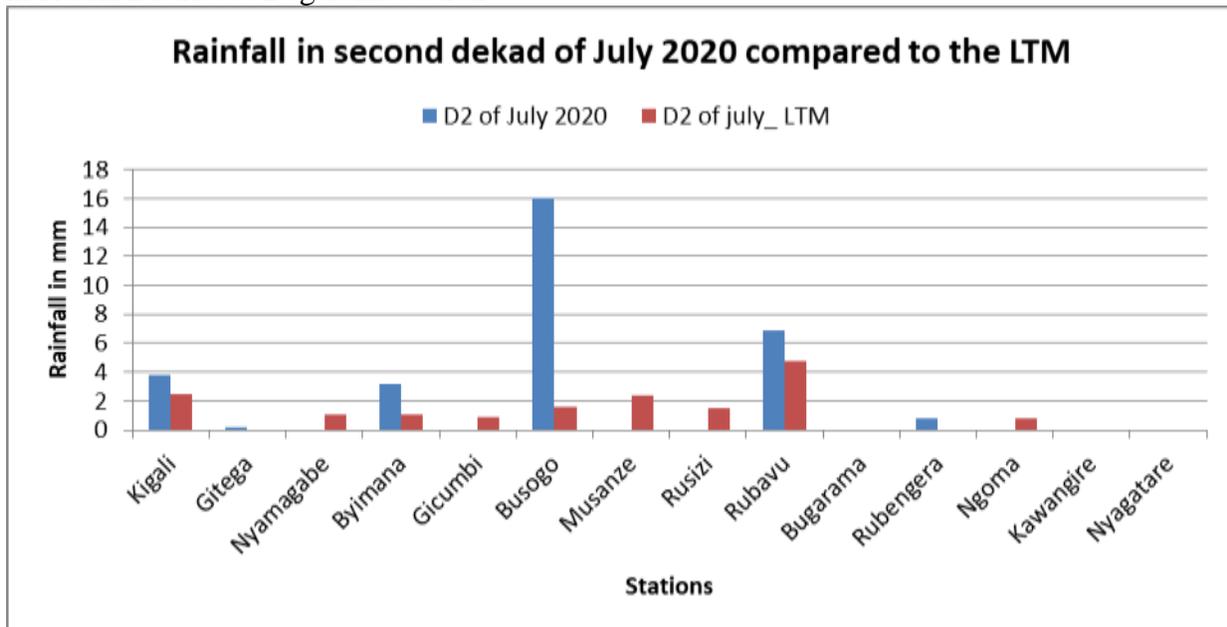


Figure 1: Rainfall performance as Compared to the LTM

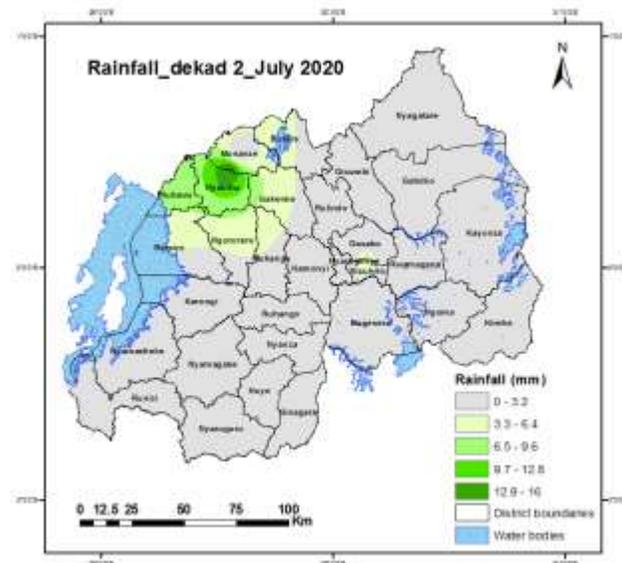
1.0 Rainfall Pattern

This section provides the overview of observed rainfall amount, rainy-days and available soil moisture for the second dekad of July 2020.

1.1 Rainfall Amount

The total rainfall amount for the second dekad of July, 2020 is presented in map 1. On daily basis it was observed that Busogo station in the Northern province and Rubavu airport station in the Western Province received much rainfall compared to rest parts of the country which recorded light rainfall and others stations received no rainfall especially in the Eastern Province.

The highest rainfall of 16mm was recorded at Busogo Station and 6.9mm was recorded at Rubavu Airport station.

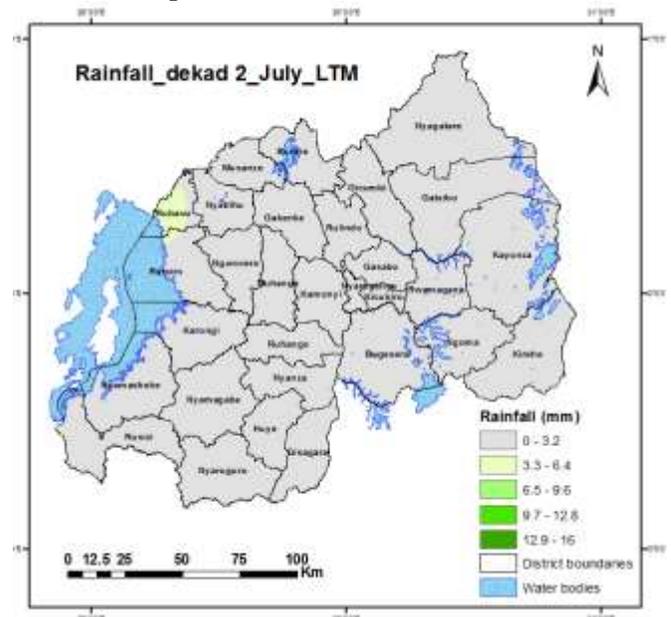


Map 1: Rainfall amount during 2nd Dekad of July 2020

1.2 Rainfall climatology for the 2nd dekad of July

The rainfall climatology for the 2nd dekad of July is shown in map 2, which indicates that rainfall ranged from 0mm to 4.8mm across the country. Comparing the 2nd Dekad of July 2020 and the Long Term Mean (LTM) for the same period;

it was observed that rainfall was above the LTM at Kigali International Airport, Byimana, Busogo Rubavu and Rubengera stations while the rest parts of the country recorded light and no rain which was normal rainfall during observation period.

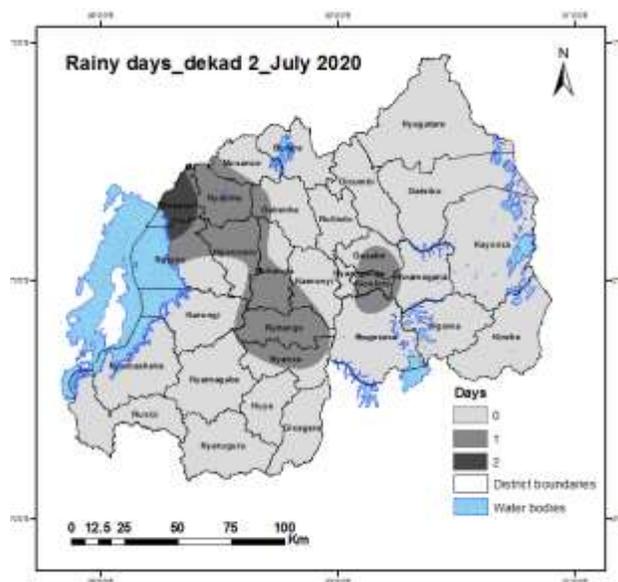


Map 2: Rainfall amount during 2nd Dekad of July (LTM)

1.3. Number of Rain Days

Map 3 shows the distribution of number of rain-days. A rainy day is defined as a day with rainfall of 0.85mm or more.

A rain day was observed at Kigali International Airport, Byimana and Busogo stations, two days was observed at Rubavu station and no rainfall recorded at the rest of the country.



Map 3: Rainy days for dekad 2 of July 2020

1.4 Soil moisture index

This section shows the available soil moisture across the country. Soil moisture decreased over most parts of the country due to dry weather conditions experienced during second dekad of July 2020. The soil moisture will continue to decrease during the third dekad of July 2020 due to the expected persistence of dry weather conditions.

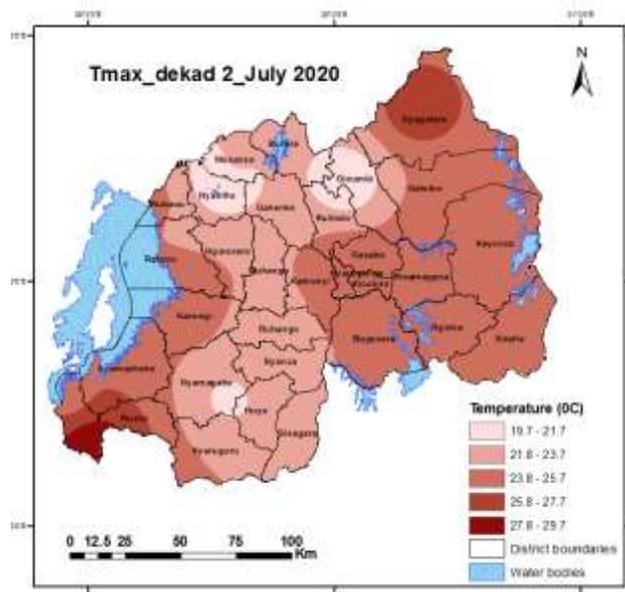
2.0 Temperature observation

The average maximum and Minimum temperature across the country during the second dekad of July 2020 is highlighted in the section below.

2.1 Mean Maximum Temperature

Map 4 shows the actual mean maximum temperature distribution across the country which indicates that the South Western, Kigali City and Eastern Provinces were warmer compared to Northern and Southern Provinces.

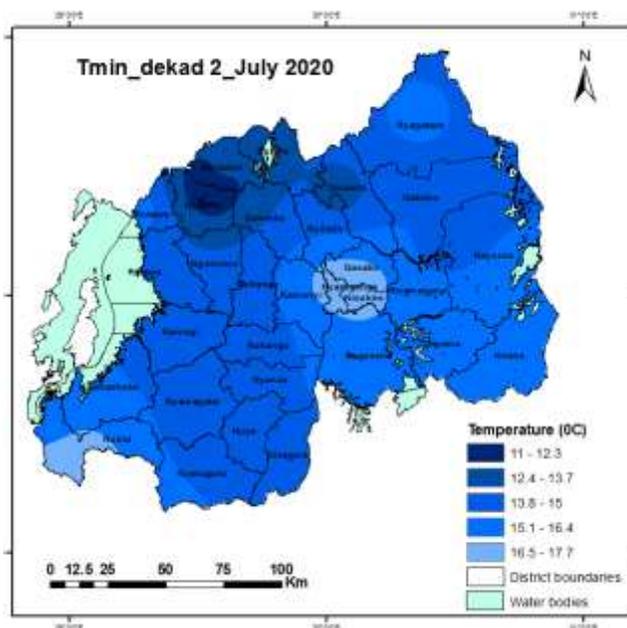
However, in most parts of the country the mean maximum temperature ranged between 19.7⁰C and 27.0⁰C with exceptional case of 29.7⁰C at Bugarama station.



Map 4: Mean Maximum Temperature for dekad 2 July 2020

2.2 Minimum Temperature

The average minimum temperature across the country is shown in Map 5. The Northern parts experienced colder temperature compared to other parts of the country, even though the minimum temperature decreased a bit compared to the previous dekad. The minimum temperature ranged between 11.0⁰C at Busogo to 17.7⁰C in Rusizi district at Bugarama station.



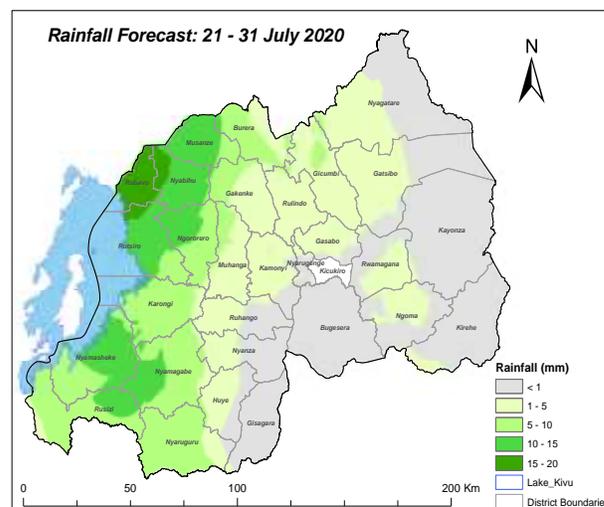
Map 5: Mean Minimum Temperature for dekad2 of July 2020

3.0 Weather Outlook and Agricultural advisory for the third dekad (21-31) July, 2020.

3.1 Weather Outlook for the third dekad of July 2020.

Rainfall Expected from 21st to 31st July 2020 (Dekad 3 of July) ranged between 0 and 20mm countrywide. Rain ranged between 15 and 20mm is expected in Rubavu District and its surrounding areas of Nyabihu and Rutsiro. The rest of Nyabihu and Rutsiro, including big part of Musanze District, Parts of Nyamasheke, Nyamagabe and Rusizi districts are expected to receive rainfall ranging between 10 and 15mm. The remaining parts of Western province, Nyamagabe and Nyaruguru District and some pockets of Northern Province will receive rainfall ranging between 5 and 10mm. The rest of the country will have rainfall ranging between 0 and 5mm with big part of Eastern Province and Amayaga region expected to have less than one millimetre.

Rainy days will remain less than two days in most parts of the country. The rainfall expected in the dekad 3 of July 2020 is in normal range of the Long Term Average rainfall of third dekad of July across the country.



Map 6: Rainfall Forecast for third dekad of July 2020

3.2 Agricultural Activity/Advisories

There is a widespread of rainfall cessation across the country, farmers are advised to use marshlands and other areas where irrigation system is applicable. Farmers are also advised to work closely with Agriculture Extension Officers for more information. For more meteorological information about weather forecast you can visit Meteo Rwanda's website: www.meteorwanda.gov.rw or call the toll free number 6080.