



Agrometeorological Bulletin N° 21, Dekad3, July (21–31) 2020 Issued on 02nd August 2020

Summary

The third dekad (21-31) of July 2020; Musanze Gicumbi and Nyagatare stations recorded above Long Term Mean rainfall while the rest of the country recorded below the Long Term Mean during the observation period. The highest rainfall amount of 15.2mm was recorded at Musanze Airport station in the Northern Province.

The temperature was within the range of LTM. The maximum temperature ranged between 20.1°C in Musanze District and 30.8°C in Rusizi District at Bugarama station. Minimum temperature ranged between 11.4°C at Busogo station in Musanze District and 17.6°C in Kigali city.

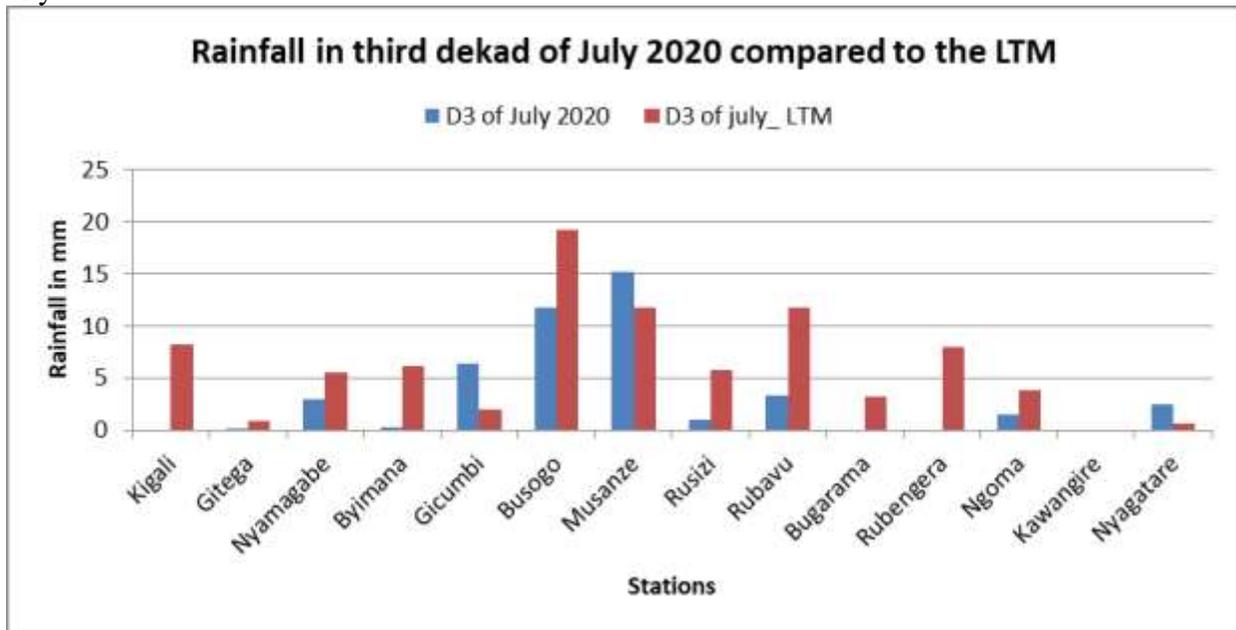


Figure 1: July D3 2020 Rainfall performance as Compared to the LTM

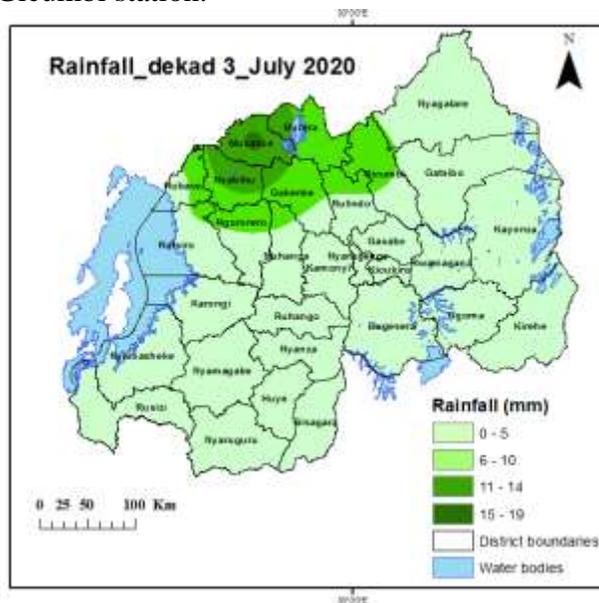
1.0 Rainfall Pattern

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

1.1 Rainfall Amount

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

The highest rainfall of 15.2mm was recorded at Musanze Airport Station, 11.8mm was recorded at Busogo station and 6.4 was recorded at Gicumbi station.

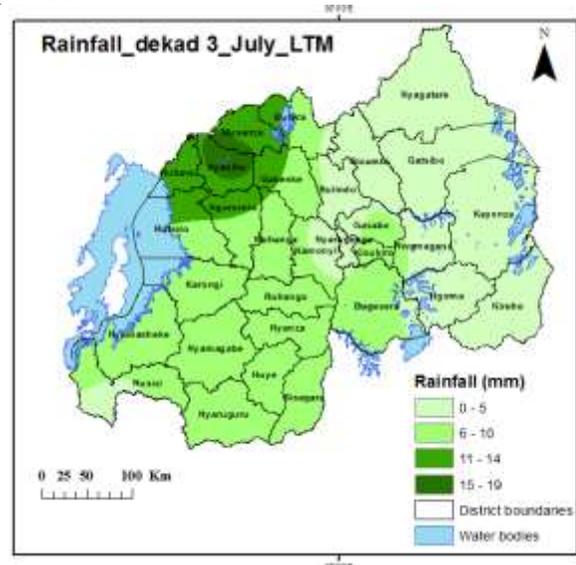


Map 1: Rainfall amount during 3rd Dekad of July 2020

1.2 Rainfall climatology for the 3rd dekad of July

The rainfall climatology for the 3rd dekad of July is shown in map 2, which indicates that rainfall ranged from 0mm to 19.2mm across the country. Comparing the 3rd dekad of July 2020 and the Long Term Mean (LTM) for the same period;

it was observed that rainfall was above the LTM at Musanze Airport, Gicumbi and Nyagatare stations while the rest parts of the country recorded light and no rain which was in the normal range of rainfall during observation period.

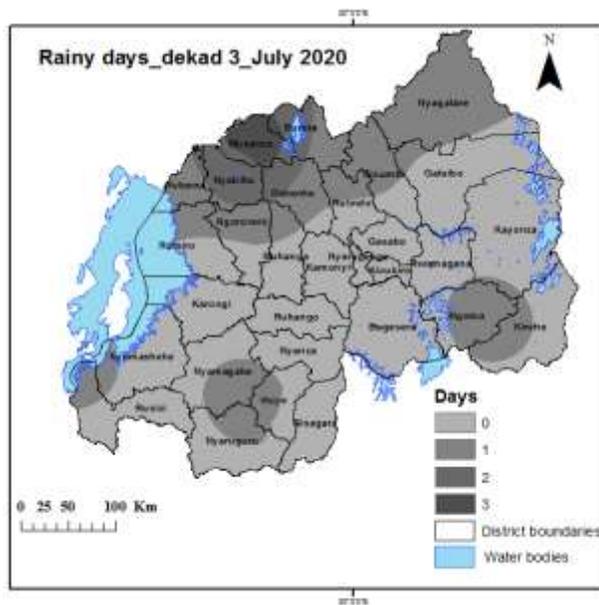


Map 2: Rainfall amount during 3rd Dekad of July (LTM)

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 Nyamagabe, Gicumbi, Rusizi, Ngoma and Nyagatare stations, two days was observed at Busogo station, three rainy days was observed at Musanze and no rainy day recorded for the rest parts of the country.



Map 3: Rainy days for dekad3 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 third dekad of July 2020. The soil moisture will continue to increase during the first dekad of August 2020 due to the expected decrease of dry spell weather conditions.

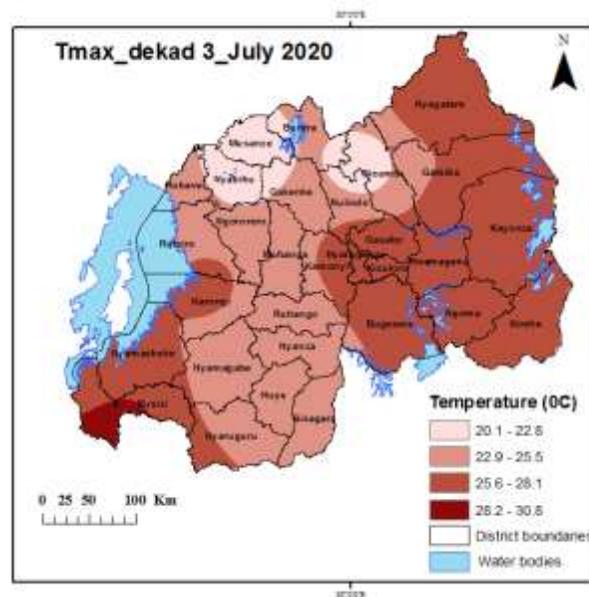
2.0 Temperature observation

The average maximum and Minimum temperature across the country during the third 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.

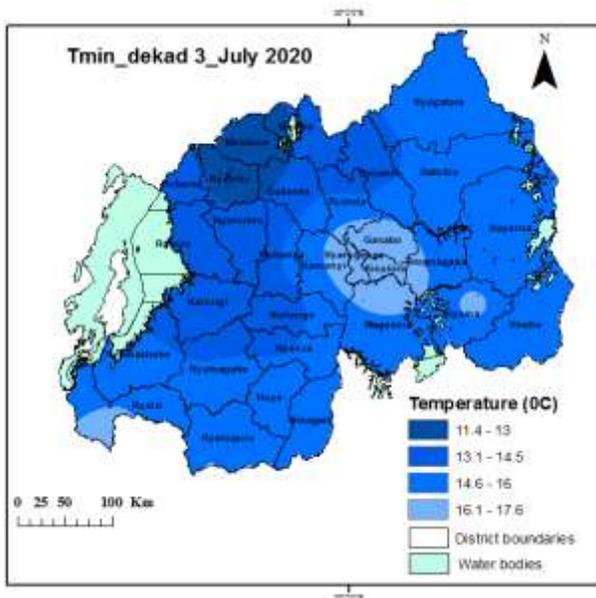
However, in most parts of the country the mean maximum temperature ranged between 20.1⁰C and 27.8⁰C with exceptional case of 30.8⁰C at Bugarama station.



Map 4: Mean Maximum Temperature for dekad3 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 11.40C at Busogo to 17.60C in Kigali city.



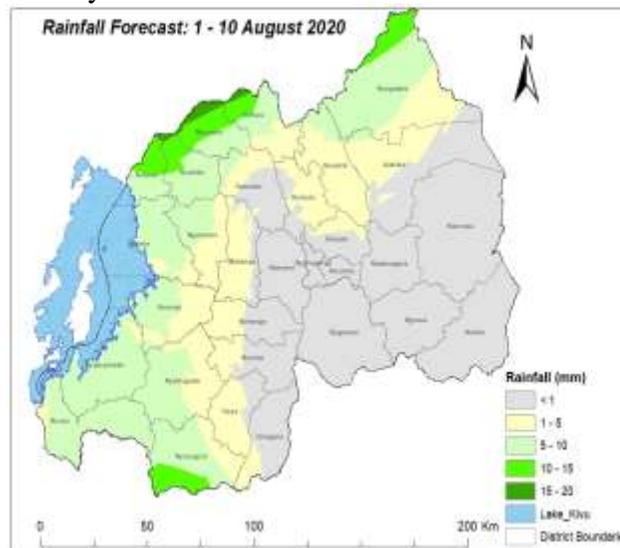
Map 5: Mean Minimum Temperature for dekad3 of July 2020

3.0 Weather Outlook and Agricultural advisory for the first dekad (01-10) August, 2020.

3.1 Weather Outlook for the first dekad of August 2020.

Rainfall Expected from 1st to 10th August 2020 (dekad 1 of August) ranges between 0 and 20mm countrywide. Rain ranging between 10 and 20mm is expected in mountainous area of Volcanoes in the districts of Rubavu, Nyabihu, Musanze, and Burera, in northern part of Nyagatare district and in Southern part of Nyaruguru district. The most parts of Western province and the rest of Musanze, Burera and Nyagatare districts are expected to receive rainfall ranging between 5 and 10mm. The remaining parts of the country will receive rainfall ranging between 0 and 5mm whereas most part of South Eastern province, Kigali and Southern province are expected to receive rainfall less than one (1) millimetre.

The rainfall is expected toward the end of the dekad and rainy days will remain less than two in most parts of the country. The rainfall during the 1st dekad of August 2020 ranges in the normal of the Long Term Average rainfall of dekad 1 of August across the country.



Map 6: Rainfall Forecast for the first dekad of August 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 you can visit Meteo Rwanda's website: www.meteorwanda.gov.rw or call the toll free number 6080.