



Agrometeorological Bulletin No.18, Dekad3, June (21–30) 2020 Issued on 02nd July 2020

Summary

The third Dekad (21-30) of June 2020; Northern and Western Provinces of the country recorded above the Long Term Mean rainfall while the rest of the country recorded light rainfall which was below the Long Term Mean (LTM). The highest rainfall amount of 29.2mm was recorded at Busogo station in the Northern Province.

The temperature was within the range of LTM. The maximum temperature ranged between 20.9°C in Musanze and Gicumbi District and 30.2°C in Rusizi District at Busogo, Gicumbi and Bugarama stations respectively. Minimum temperature ranged between 11.4°C at Musanze and 18.0°C in Rusizi District at Bugarama station.

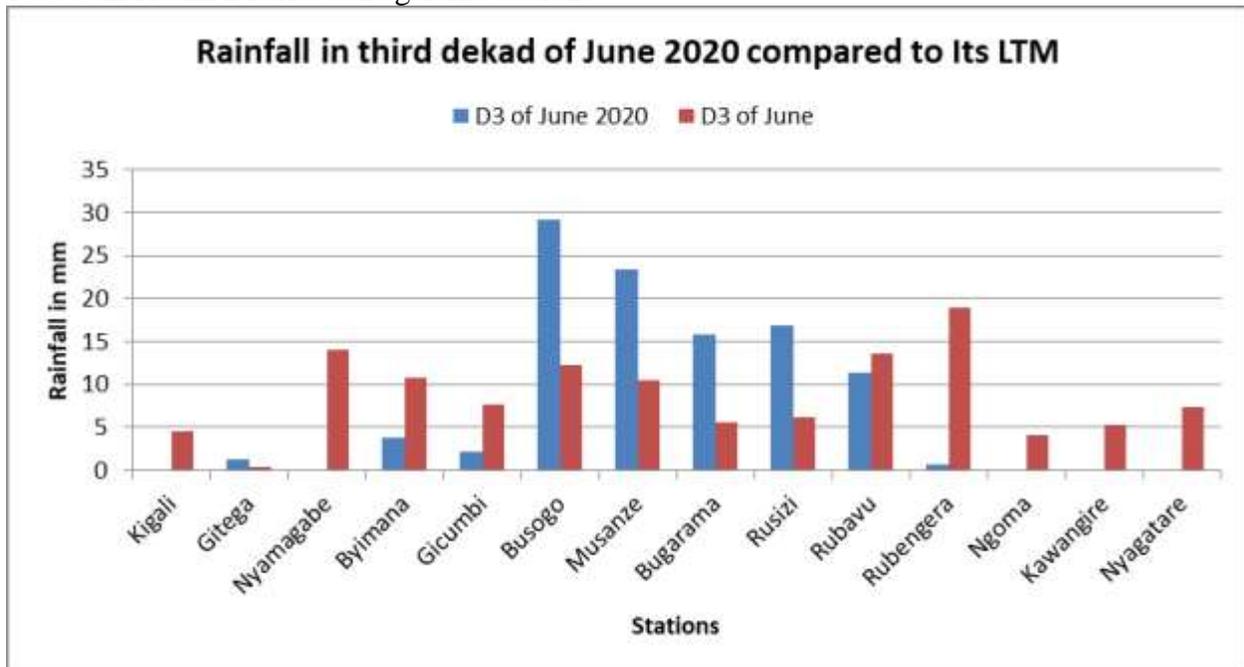


Figure 1: Rainfall performance as Compared to the LTM

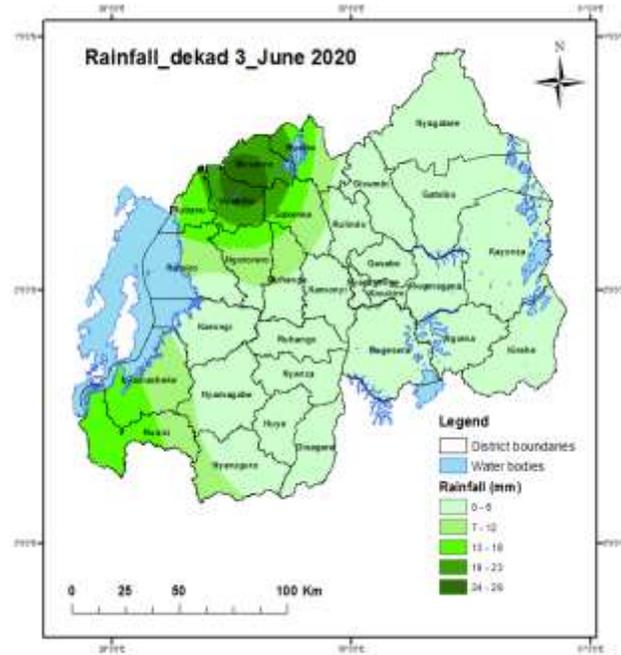
1.0 Rainfall Pattern

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

1.1 Rainfall Amount

The total rainfall amount for the third dekad of June, 2020 is presented in map 1. On daily basis it was observed that Northern and Western Provinces of the country received much rainfall compared to rest parts of the country which recorded light rainfall.

The highest rainfall of 29.2mm was recorded at Busogo Station, 23.4mm was recorded at Musanze Airport and 16.8mm was recorded at Rusizi Airport.

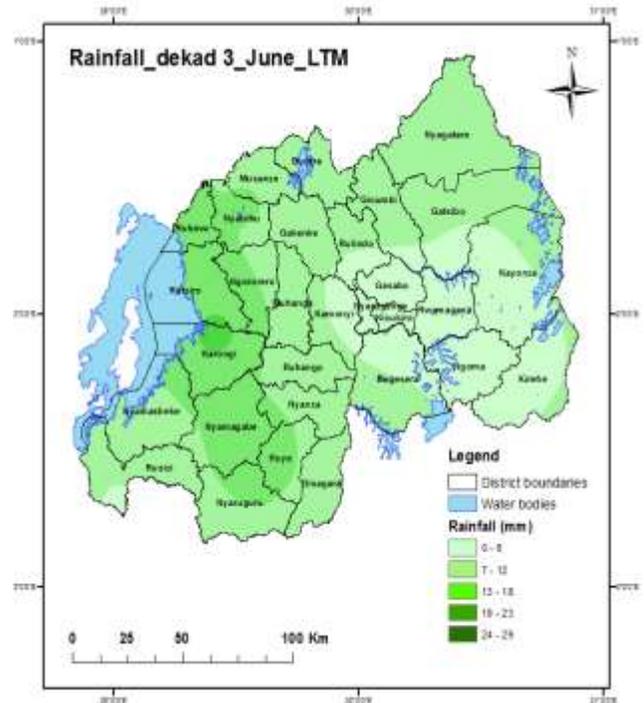


Map 1: Rainfall amount during 3rd Dekad of June 2020

1.2 Rainfall climatology for the 3rd dekad of June

The rainfall climatology for the 3rd dekad of June is shown in map 2, which indicates that rainfall ranged from 0.3mm to 18.9mm across the country. Comparing the 3rd Dekad of June 2020 and the Long Term Mean (LTM) for the

same period; it was observed that rainfall was above the LTM in Northern and Western Provinces while the Eastern province recorded no rainfall and the rest parts of the country recorded light rain which was below normal rainfall.

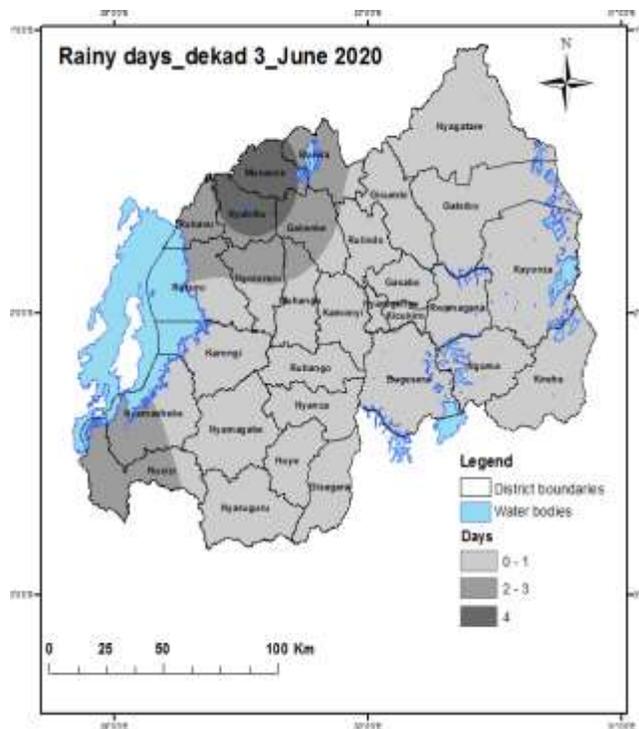


Map 2: Rainfall amount during 2nd Dekad of June (LTM)

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.

No rainfall recorded at Kigali Airport, Nyamagabe, Ngoma, Kawangire, Rubengera and Nyagatare stations. One day rainfall was observed at Gitega, Byimana and Gicumbi stations, two days were observed at Bugarama, Rusizi and Rubavu stations. Musanze and Busogo recored 3 and 4 days respectively.



Map 3: Rainy days for dekad 3 of June 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 June 2020. The soil moisture will continue to decrease during the first dekad of July 2020 due to the expected persistence of dry weather conditions.

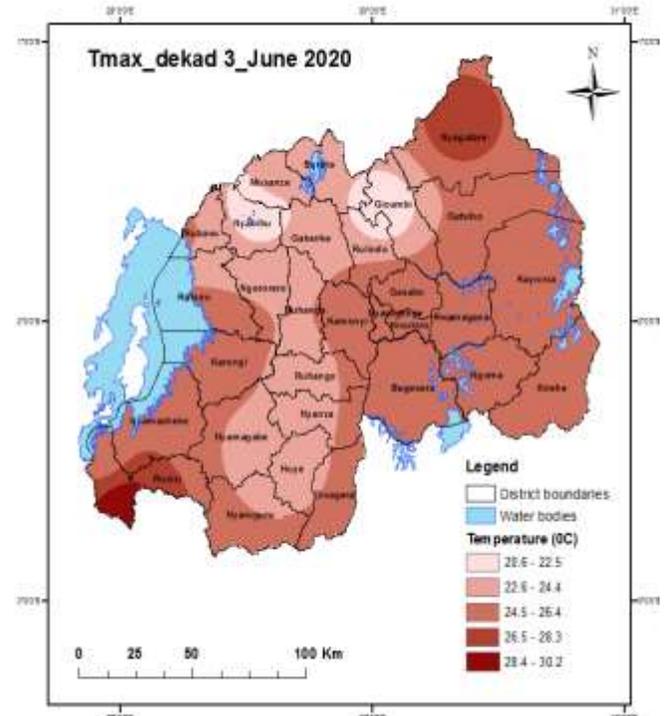
2.0 Temperature observation

The average maximum and Minimum temperature across the country during the 3rd dekad of June 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.

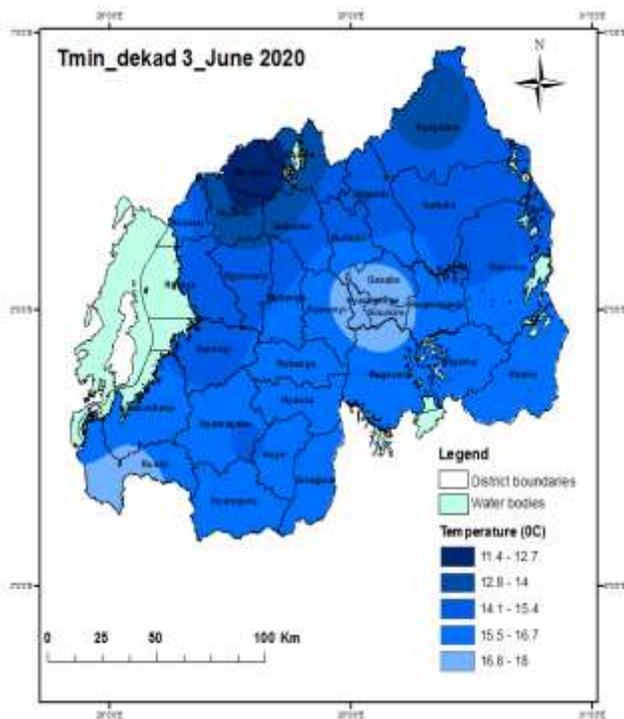
However, in most parts of the country the mean maximum temperature ranged between 20.9⁰C and 28.0⁰C with exceptional case of 30.2⁰C at Bugarama station which was slightly warmer than other parts of the country.



Map 4: Mean Maximum Temperature for dekad 3 June 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 Musanze to 18.0⁰C at Bugarama.



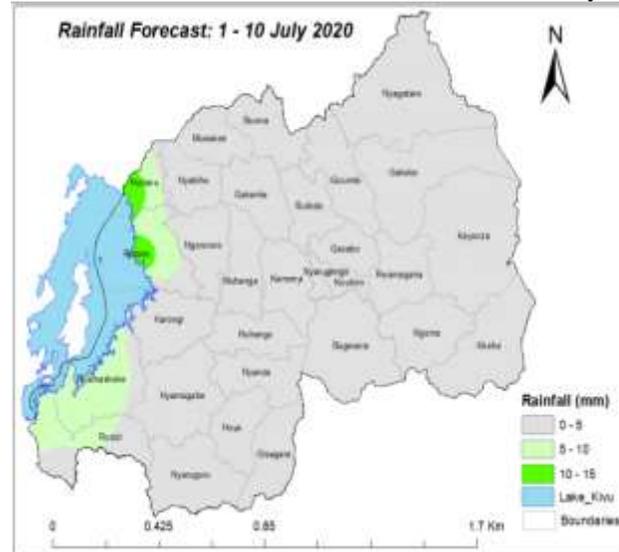
Map 5: Mean Minimum Temperature for dekad3 of June 2020

3.0 Weather Outlook and Agricultural advisory for the 1st dekad (01-10) July, 2020.

3.1 Weather Outlook for the firstdekad of July 2020.

Rainfall Expected from 1st to 10th July 2020 (Dekad 1 of July) will range between 0 and 15mm countrywide. Spatial distribution shows that dry conditions with sunny interval will dominate most parts of the country. Light rain ranging between 5 to 15mm is expected in the districts bordering Lake Kivu in Rubavu, Rutsiro, Rusizi and Nyamasheke while 0 to 5mm rain accumulation in 10 days is expected in remaining parts of the country (see more details on map below). The rainfall expected in the dekad 1 of July 2020 is slightly above the Long Term Average of first dekad of July in four districts mentioned above while the rest of the country rain will range within the Long Term Mean.

The Long Term Average range of July dekad 1 is between 0mm and 10mm across the country.



Map 6: Rainfall Forecast for first 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.