



## Agrometeorological Bulletin No.19, Dekad1, July (01–10) 2020 Issued on 12<sup>th</sup> July 2020

### Summary

The first Dekad (1-10) of July 2020; Gicumbi and Byimana stations recorded above the Long Term Mean rainfall while Kigali, Busogo, Rubavu and Rubengera stations recorded light rainfall which was below the Long Term Mean (LTM) and the rest of stations received no rainfall. The highest rainfall amount of 7.4mm was recorded at Gicumbi station in the Northern Province. The temperature was within the range of LTM. The maximum temperature ranged between 20.7°C in Gicumbi District and 28.1°C in Nyagatare District. Minimum temperature ranged between 11.8°C at Busogo and 17.3°C in Kigali city.

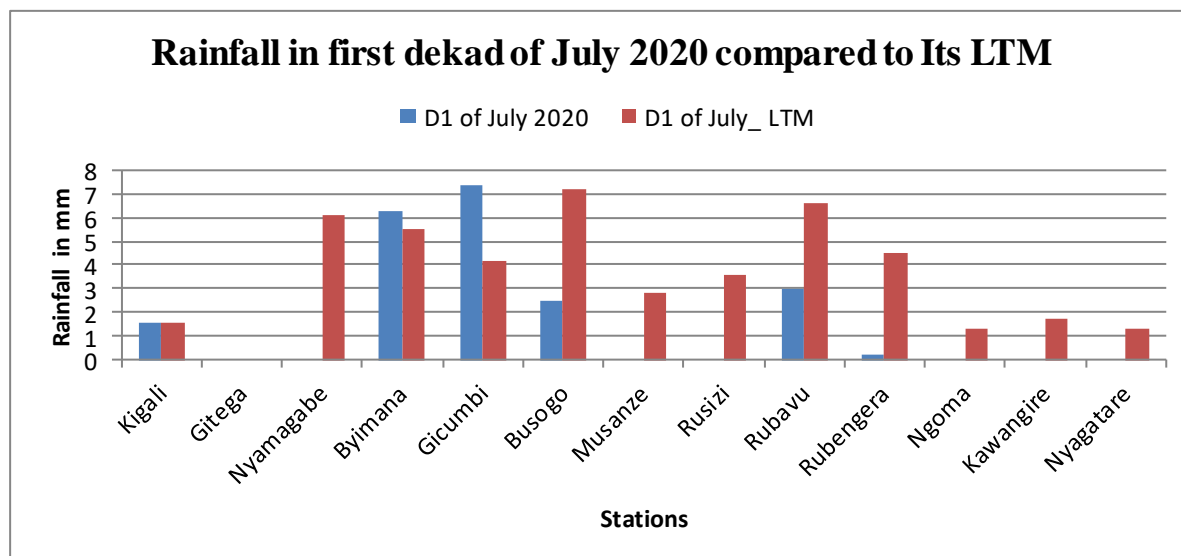


Figure 1: Rainfall performance as Compared to the LTM

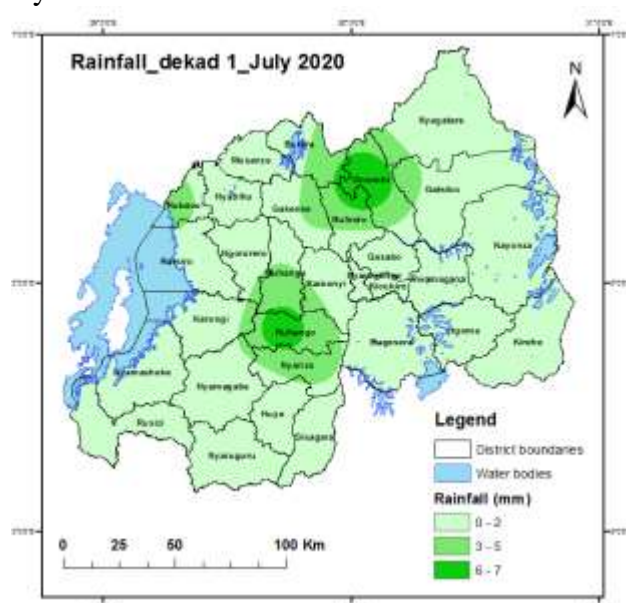
## 1.0 Rainfall Pattern

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

### 1.1 Rainfall Amount

The total rainfall amount for the first dekad of July, 2020 is presented in map 1. On daily basis it was observed that Gicumbi station in the Northern province and Byimana station in the southern 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 7.4mm was recorded at Gicumbi Station and 6.3mm was recorded at Byimana station.

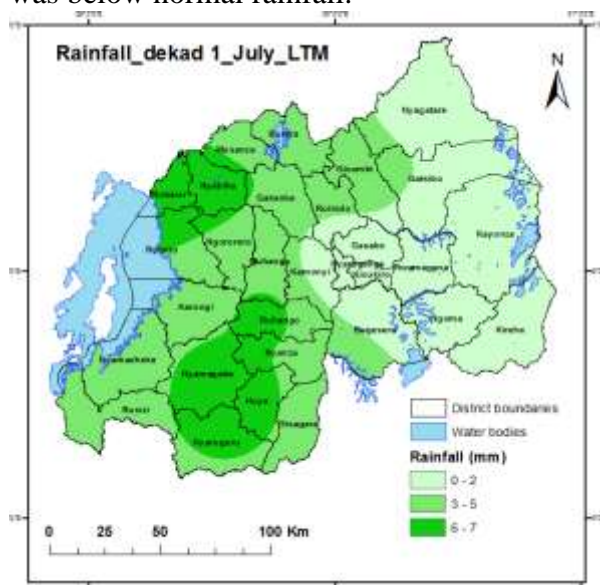


**Map 1: Rainfall amount during 1<sup>st</sup> Dekad of July 2020**

### 1.2 Rainfall climatology for the 1<sup>st</sup> dekad of July

The rainfall climatology for the 1<sup>st</sup> dekad of July is shown in map 2, which indicates that rainfall ranged from 0mm to 7.2mm across the country. Comparing the 1<sup>st</sup> Dekad of July 2020 and the Long Term Mean (LTM) for the same period;

it was observed that rainfall was above the LTM at Gicumbi and Byimana while the rest parts of the country recorded light rain which was below normal rainfall.

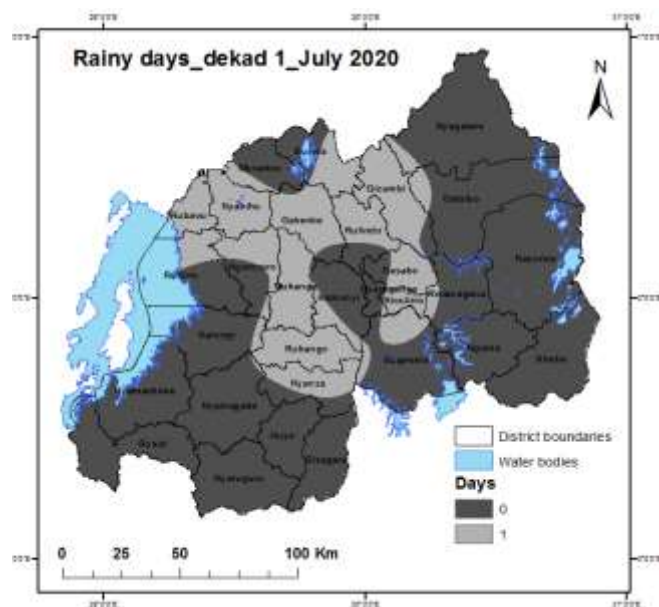


**Map 2: Rainfall amount during 1<sup>st</sup> Dekad of July (LTM)**

### 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.

No rainfall recorded at Gitega, Nyamagabe, Musanze, Rusizi, Rubengera stations and the whole Eastern province while the rest of stations recorded one day rainfall.



**Map 3: Rainy days for dekad 1 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 first dekad of July 2020. The soil moisture will continue to decrease during the second dekad of July 2020 due to the expected persistence of dry weather conditions.

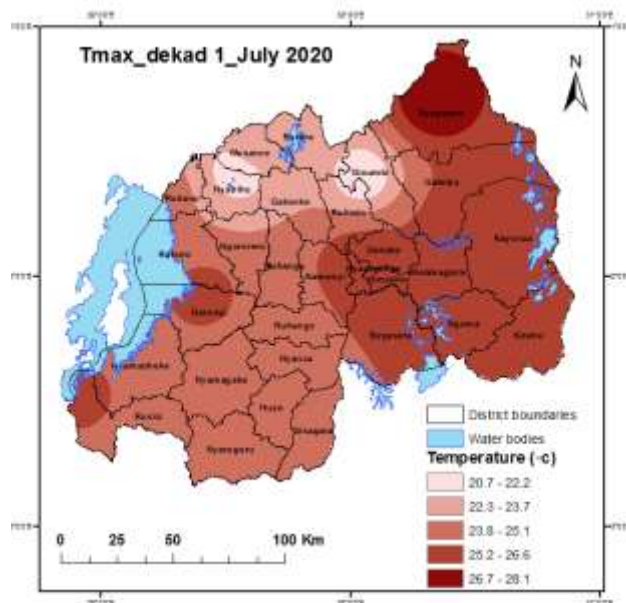
### 2.0 Temperature observation

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

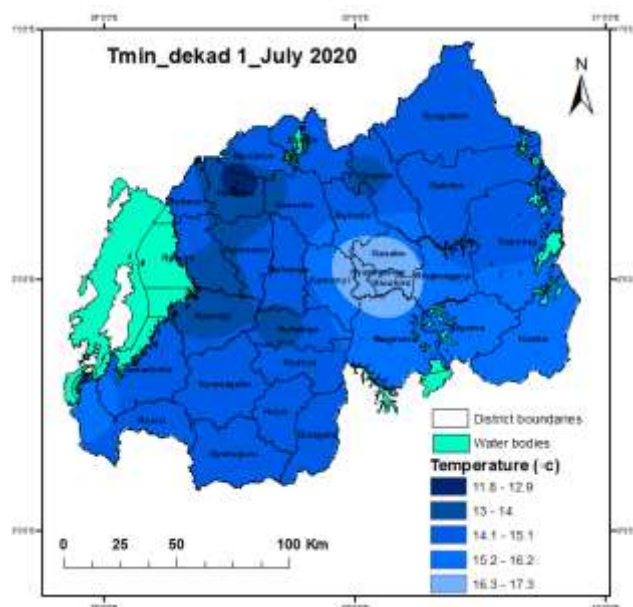
However, in most parts of the country the mean maximum temperature ranged between 20.7<sup>0</sup>C and 28.1<sup>0</sup>C.



**Map 4: Mean Maximum Temperature for dekad1 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 11.8<sup>0</sup>C at Busogo to 17.3<sup>0</sup>C in Kigali city at Kigali international airport and Gitega stations.



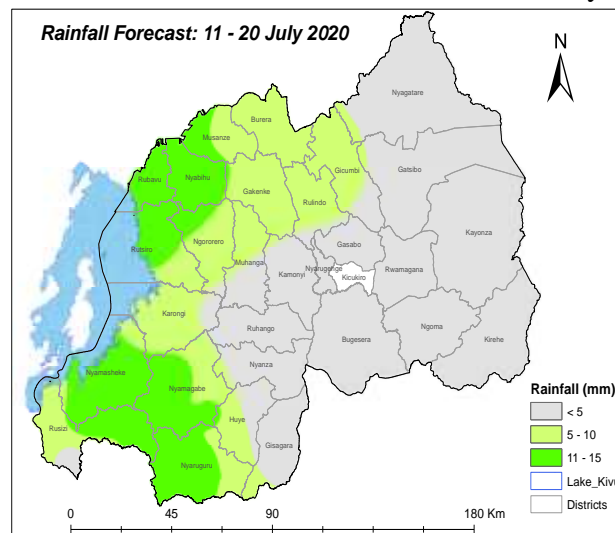
**Map 5: Mean Minimum Temperature for dekad1 of July 2020**

### 3.0 Weather Outlook and Agricultural advisory for the second dekad (11-20) July, 2020.

#### 3.1 Weather Outlook for the second dekad of July 2020.

Rainfall expected from 11th to 20th July 2020 (Dekad 2 of July) ranged between 0 and 15mm countrywide. Spatial distribution of rainfall shows that dry conditions with sunny interval will continue to dominate most parts of the country. Rainfall ranging between 10 to 15mm is expected in the districts of Rubavu, Nyabihu, Nyamasheke and parts of Musanze, Rutsiro, Rusizi, Nyamagabe and Nyaruguru. Rain ranging between 5 and 10mm is expected in the remaining parts of Western and Northern Provinces, the rest parts of Nyamagabe and Nyaruguru Districts and parts of Muhanga and Huye Districts. Less than 5mm rainfall accumulation in 10 days is expected in the remaining districts of the country.

The rainfall expected in the dekad 2 of July 2020 is in the range of Long Term Mean which is between 0mm and 15mm across the country.



**Map 6: Rainfall Forecast for second 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](http://www.meteorwanda.gov.rw) or call the toll free number 6080.