



## Agrometeorological Bulletin N° 22, Dekad1, August (01–10) 2020 Issued on 12<sup>th</sup> August 2020

### Summary

The first dekad (01-10) of August 2020; no rainfall was recorded in most parts of the country except in Nyagatare district at Nyagatare station where 4.1mm was recorded. Compared to the Long Term Mean (LTM), this dekad was dry.

The temperature was within the range of LTM. The maximum temperature ranged between 22.7°C in Musanze and Gicumbi Districts and 32.1°C in Rusizi district at Bugarama station. Minimum temperature ranged between 10.6°C at Busogo station in Musanze District and 17.8°C in Kigali city.

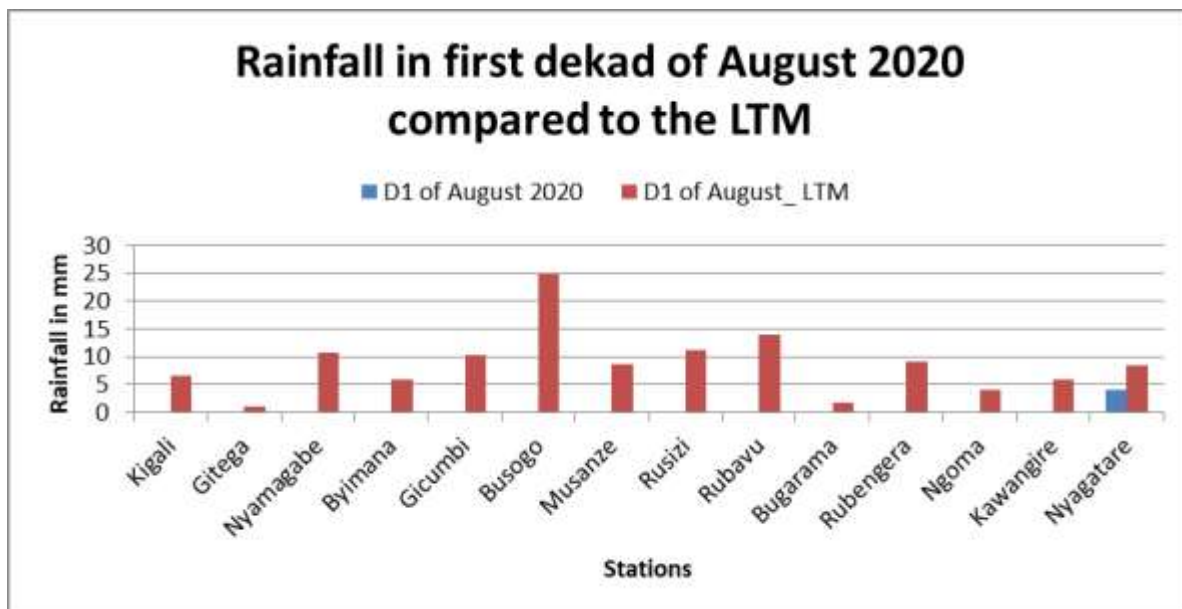


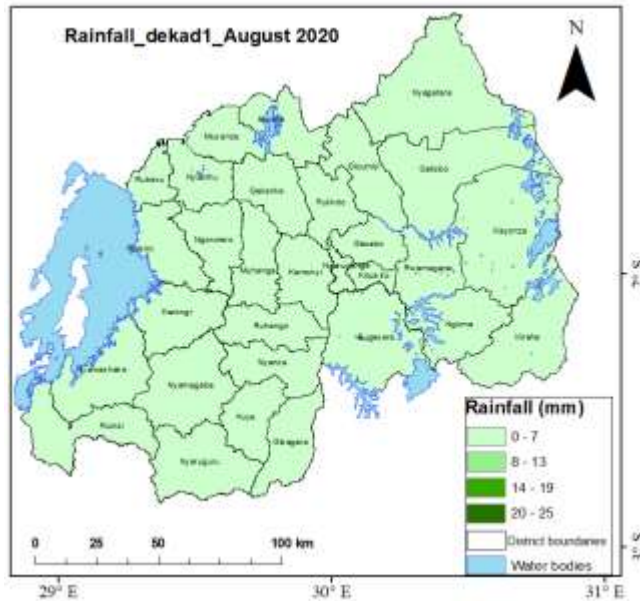
Figure 1: August D1 2020 Rainfall performance as Compared to the LTM

## 1.0 Rainfall Pattern

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

### 1.1 Rainfall Amount

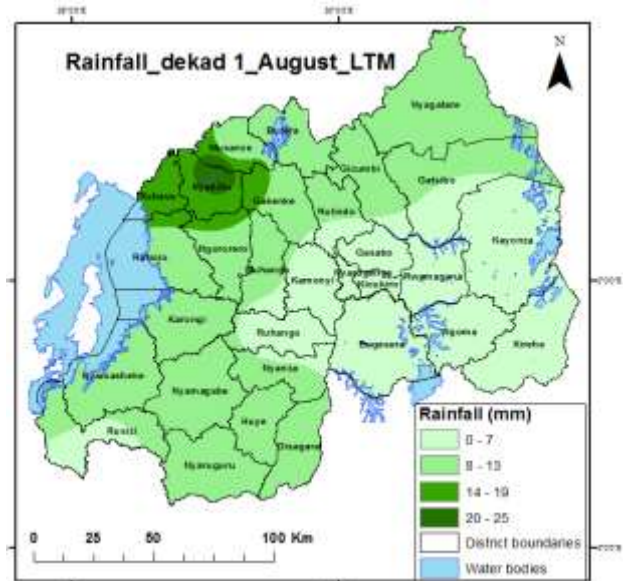
The total rainfall amount for the first dekad of August, 2020 is presented in map 1. On daily basis it was observed that this dekad was very dry. Rainfall amount of 4.1mm was recorded at Nyagatare station while the rest of the country received no rainfall.



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

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

The rainfall climatology for the 1<sup>st</sup> dekad of August is shown in map 2, which indicates that rainfall ranged from 1.1mm to 13.9mm across the country. Comparing the 1<sup>st</sup> dekad of August 2020 and the Long Term Mean (LTM) for the same period; it was observed that in all parts of the country, the first dekad was the dry compared to the Long Term Mean.



*Map 2: Rainfall amount during 1<sup>st</sup> Dekad of August (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 Nyagatare station while in the rest of the country no rainfall was recorded.



*Map 3: Rainy days for dekad1 of August 2020*

## 1.4 Soil moisture index

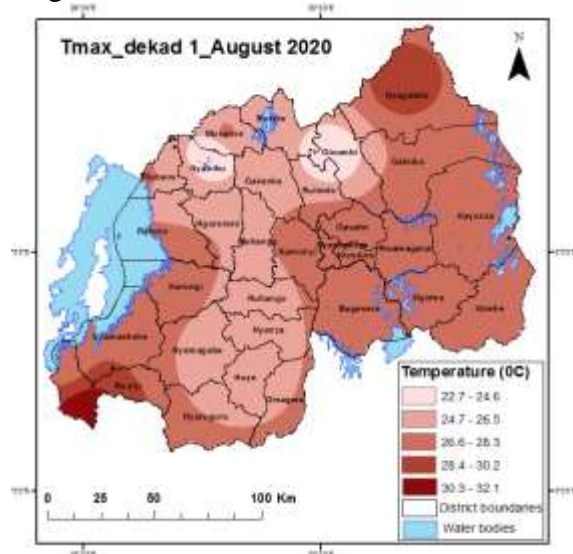
This section shows the available soil moisture across the country. Soil moisture decreased over most parts of the country due to dry weather conditions experienced during the first dekad of August 2020. The soil moisture will increase during the second dekad of August 2020 due to the expected wet weather conditions.

## 2.0 Temperature observation

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

### 2.1 Mean Maximum Temperature

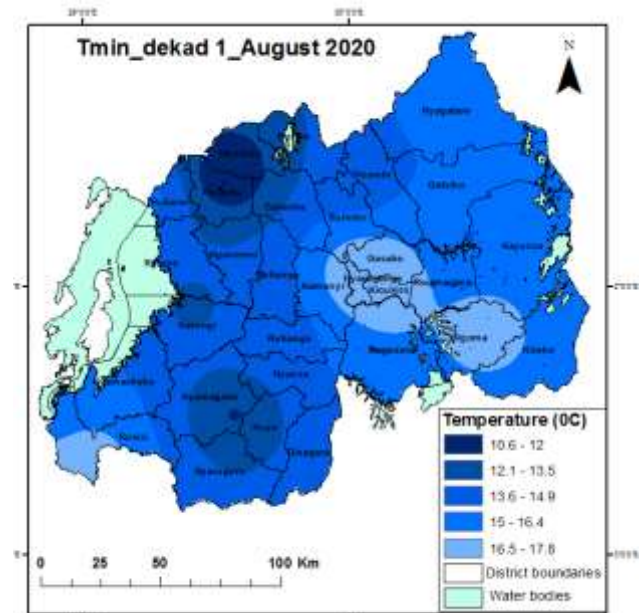
Map 4 shows the actual mean maximum temperature distribution across the country which indicates that the South Western, Kigali City and Eastern Provinces were warmer compared to Northern and Southern Provinces. However, in most parts of the country the mean maximum temperature ranged between 22.7<sup>0</sup>C and 29.4<sup>0</sup>C with exceptional case of 32.1<sup>0</sup>C at Bugarama station



**Map 4: Mean Maximum Temperature for dekad1 August 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 10.6<sup>0</sup>C at Busogo and 17.8<sup>0</sup>C in Kigali city.



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

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

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

Rainfall expected from 11<sup>th</sup> to 20<sup>th</sup> August 2020 (dekad 2 of August) will range between 0 and 20mm countrywide. Rain ranging between 15 and 20mm is expected in Nyamasheke and parts bordering Uganda of Burera, Gicumbi and Nyagatare Districts.

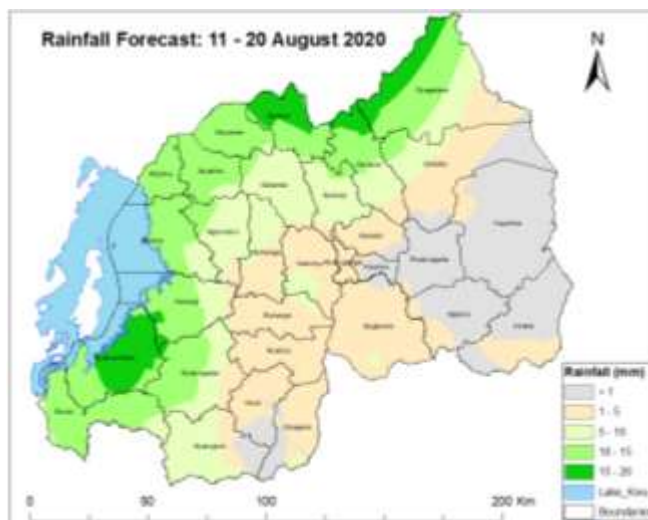
The rainfall between 10 and 15 milimeters is expected in most parts of Western Province as well as the District of Musanze, southern parts of Burera and Gicumbi, the part of Nyamagabe district bordering Nyamasheke and the small part of Nyagatare.

The remaining parts of northern Province (Gakenke, Rulindo and southern part of Gicumbi district), big part of Ngororero and Nyaruguru District is expected to receive rainfall between 5 and 10 mm.

Most of Southern Province including Gasabo and Nyarugenge districts and the southern part of Kirehe District expected to receive rainfall between 1 and 5mm. While rainfall less than one (1) milimeter is expected in many Districts of Eastern Province and small parts of Huye, Gisagara and Nyaruguru District.

### 3.2 Agricultural Activity/Advisories

There is a widespread of less rainfall 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 and for preparation of agriculture season A. For more meteorological information you can visit Meteo Rwanda's website: [www.meteorwanda.gov.rw](http://www.meteorwanda.gov.rw) or call the toll free number 6080.



**Map 6: Rainfall Forecast for sccond dekad of August 2020**

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