



## Agrometeorological Bulletin N° 32, Dekad2, November (11– 20) 2020 Issued on 23<sup>rd</sup> November 2020

### Summary

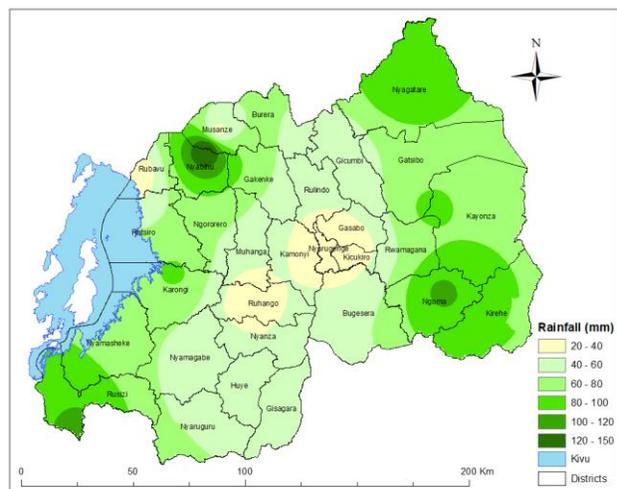
The second Dekad (11-20) of November 2020; indicated that the Inter Tropical Convergence Zone (ITCZ) is still well located over the region and rainfall activities are well established across the country. Normal to above normal rainfall was recorded in most parts of the country except at Gitega, Musanze Airport and Rubavu Airport stations that recorded below normal rainfall. The highest rainfall amount was recorded in Northern Province at ISAE-Busogo station with 147.4mm in 6 rain-days, followed by Bugarama station in Western Province with 105.2mm in 6 rain-days and Ngoma-Kazo station in Eastern Province with 103.3mm in 6 rain-days. The lowest rainfall less than 30mm was recorded at Gitega and Musanze Airport stations that recorded 26mm and 21.8mm respectively. The temperature was within the range of Long Term Mean. The maximum temperature ranged between 20.2°C at Gicumbi and 29.7°C at Bugarama stations. Minimum temperature ranged between 11.6°C at Musanze Airport and 18.5°C at Bugarama stations respectively. The soil moisture contents and soil temperatures were favourable for rainfed agriculture across the country.

### 1.0 Rainfall Pattern

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

### 1.1 Rainfall Amount

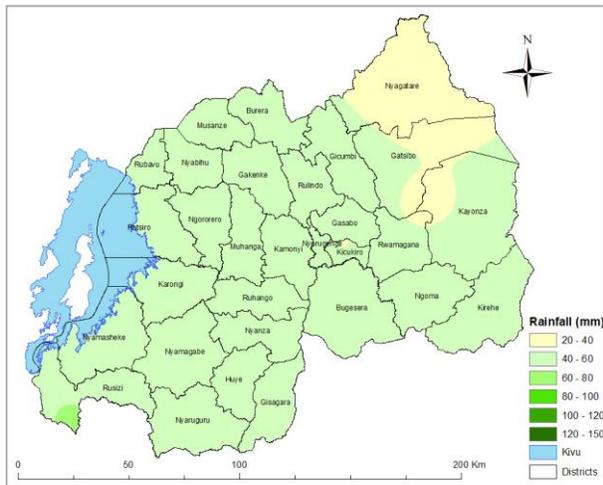
The actual total rainfall amount recorded in the second dekad of November, 2020 is presented in Map 1. On daily basis it was observed that this dekad received moderate rainfall in most parts of the country. Northern, Western and Eastern Provinces were comparatively wet. Stations across the country recorded good rainfall which was favourable for rainfed agriculture.



Map 1: Rainfall amount during 2<sup>nd</sup> Dekad of November 2020

## 1.2 Rainfall climatology for the 2<sup>nd</sup> dekad of November

The rainfall climatology for the 2<sup>nd</sup> dekad of November is shown in map 2, and it indicates that normally the rainfall ranges from 28.3 to 60.6mm across the country depending on the region. Comparing to the current dekad of November 2020 and the Long Term Mean (LTM) for the same period; it was observed that the current dekad was wet in Western, Eastern and some parts of Northern Provinces.

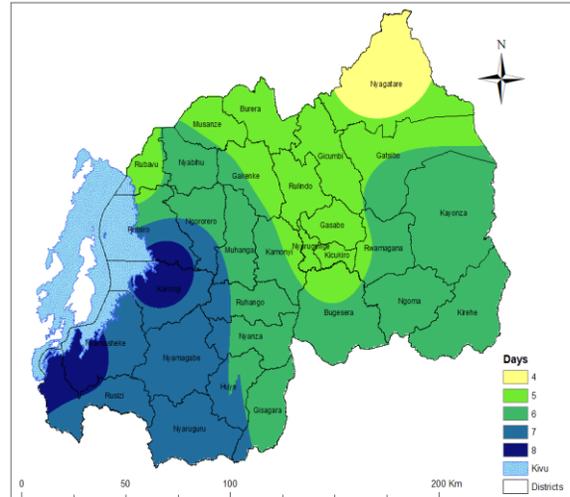


**Map 2: Rainfall amount during 2<sup>nd</sup> Dekad of November (LTM)**

## 1.3. Number of Rain Days

The Map 3 shows the distribution of number of raindays across the country. A rainy day is defined as a day with at least 0.85mm of rainfall.

As it is shown in map 3, most parts of the country had 4 to 9 rainy days except Nyagatare station that had 3 rain-days. The rainfall distribution was adequate and suitable for rain-fed agriculture across the country. During the forecasting period (third dekad of November 2020) rainy days will be varying between 3 and 7 days increasing from East toward the West parts and rainy days will be well distributed across the country.



**Map 3: Rainy days for dekad2 of November 2020**

## 1.4 Soil moisture index

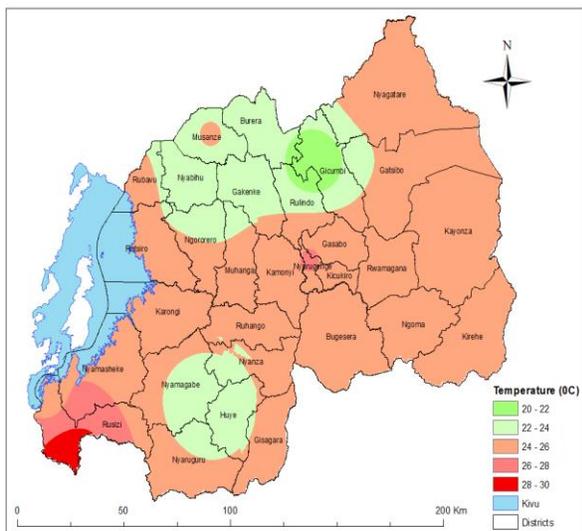
This section shows the available soil moisture across the country. The soil moisture showed a normal to surplus soil moisture over most parts of the country due to wet weather conditions experienced during the second dekad of November 2020. The soil moisture will continue to increase in the third dekad of November 2020 due to the expected wet weather conditions.

## 2.0 Temperature observation

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

### 2.1 Mean Maximum Temperature

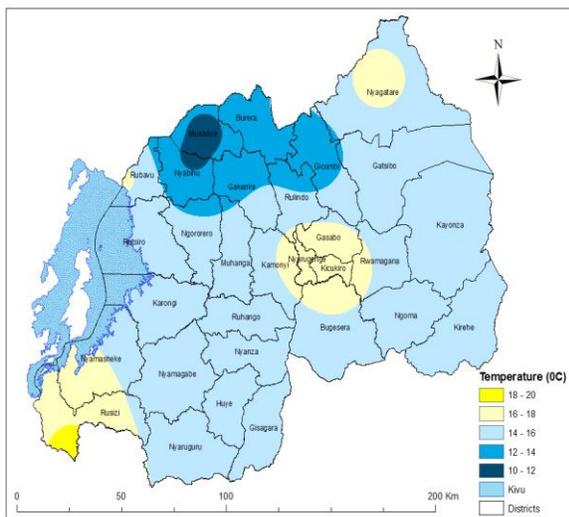
Map 4 shows the actual mean maximum temperature distribution across the country which indicates that the south western parts, Kigali City, northern and southern parts of the Eastern Province were warmer than the Northern, Southern and the Western Provinces. However, in most parts of the country the mean maximum temperature ranged between 20.2<sup>0</sup>C and 26.2.0<sup>0</sup>C with exceptional case of slightly high temperature of 29.7<sup>0</sup>C recorded at Bugarama station.



**Map 4: Mean Maximum Temperature for dekad2 November 2020**

**2.2 Minimum Temperature**

The average minimum temperature across the country is shown in Map 5. The Northern parts experienced colder temperature than the other parts of the country. The minimum temperature ranged between 11.6<sup>0</sup>C at Musanze Airport Station and 18.5<sup>0</sup>C at Bugarama station respectively.



**Map 5: Mean Minimum Temperature for dekad2 November 2020**

**3.0 Weather Outlook and Agricultural advisories for the third dekad (21-30) November, 2020.**

**3.1 Weather Outlook for the third dekad of November 2020.**

Rainfall expected between 21<sup>st</sup> and 30<sup>th</sup> November 2020 will range between 40 and 150mm across the country which is distribution highlighted below:

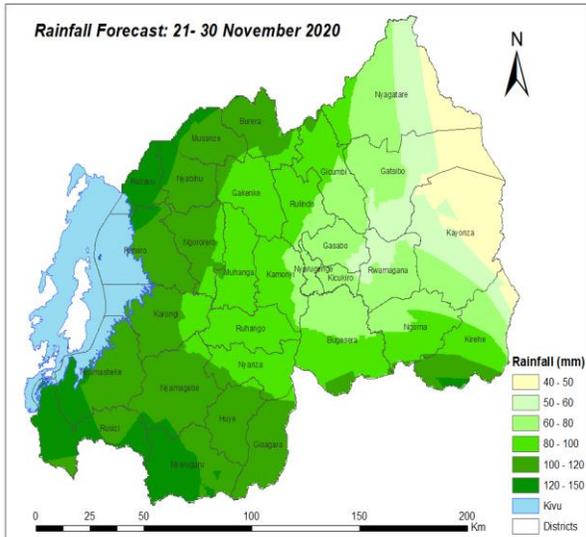
**Eastern Province:** Rainfall ranging between 40 and 120mm is expected in Eastern Province. Eastern parts of Kayonza, Gatsibo and Nyagatare are expected to record less rainfall of the Dekad ranging between 40 and 50mm while Southern parts of Bugesera, Ngoma and Kirehe are expected to receive between 80 and 120mm in ten days.

**Kigali City:** Rainfall ranging between 60 and 80mm is expected in Kigali, only south eastern part of Gasabo is expected to record between 50 and 60mm.

**Southern Province:** It is expected to record rainfall ranging between 60 and 150mm. Western part Nyaruguru is expected rainfall ranging between 120 and 150mm, remaining part of Nyaruguru, entire Nyamagabe, Huye and Gisagara are expected between 100 and 120mm while remaining Districts are expected to record between 60 and 100mm.

**Western Province:** Eastern parts of Karongi and Ngororero in Western Province are expected to receive rainfall ranging between 80 and 100mm while remaining parts are expected to record rainfall ranging between 100 and 150mm.

**Northern Provinces:** It is expected to receive rainfall ranging between 60 and 120mm. Rainfall ranging between 100 and 120mm is expected in Musanze and Burera, rainfall ranging between 60 and 80mm is expected in southern parts of Rulindo and Gicumbi while remaining parts are expected to have rainfall ranging between 80 and 100mm.



**Map 6: Rainfall Forecast for the third dekad of November 2020**

### 3.2 Agricultural Activity/Advisories

The stakeholders in Agriculture sector are advised to fast track fertilizers delivery to the farmers. The flowering of seasonal crops is the undergoing stage in most part of the country and weeding will be the main activity. Farmers are advised to work closely with Agriculture Extension Officers for more information which will support their agriculture activities. 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.