



**REPUBLIC OF RWANDA  
MINISTRY OF ENVIRONMENT  
RWANDA METEOROLOGY AGENCY**



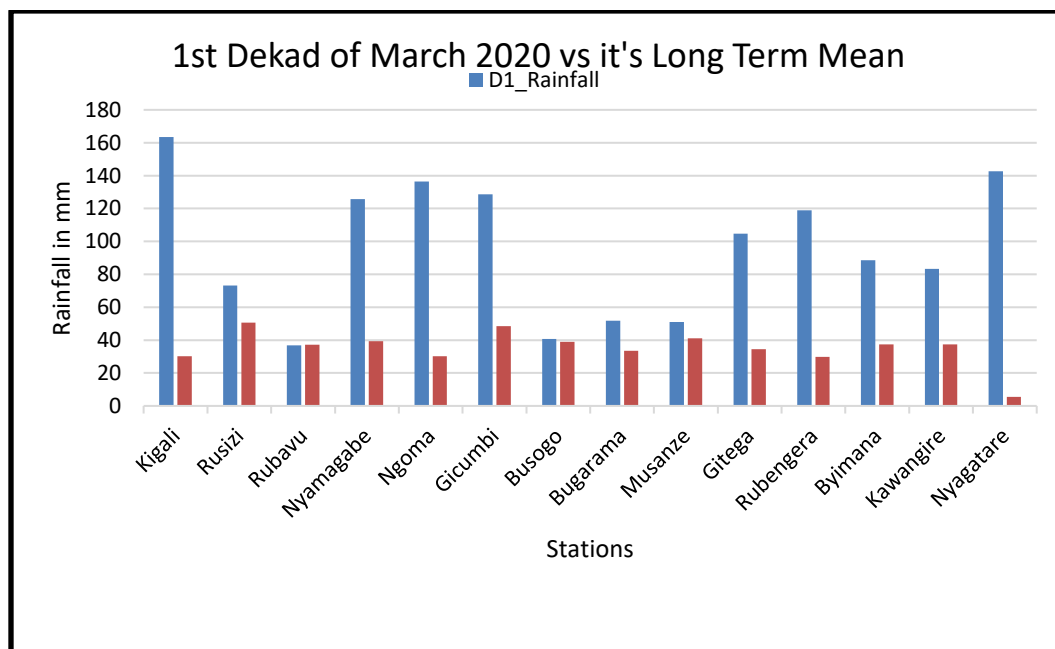
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**Summary**

In the First Dekad (01-10) of March 2020, most parts of the country received light to heavy rainfall which was above the Long Term Mean(LTM) in most parts of the country. In this dekad, high rainfall amount was recorded at Kigali Airport (163.4mm), Gitega station in Nyarugenge District (104.8mm), Nyagatare station in Nyagatare District (142.6mm) Nyamagabe station in Nyamagabe district (125.8mm), kazo station in Ngoma District (136.4mm), Byumba station in Gicumbi District (128.6mm) and Rubengera station in Karongi District (11.9mm) while Rubavu and Busogo stations received rainfall of (40 mm) which in the same range as LTM and it was the least rainfall recorded during the dekad. Generally Eastern, Central and South-western region were wet compared to the other regions of the country. The temperature was in normal range, the maximum temperature ranged between 29.7°C in Bugarama to 23.1°C in Gicumbi. Minimum temperature ranged between 19.2°C at Bugarama to 12.6 °C at Busogo station.



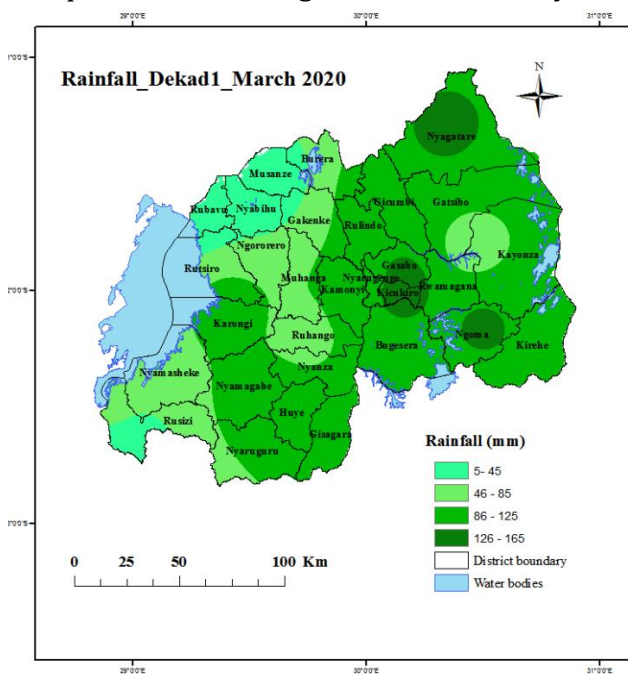
**Figure 1: Rainfall performance as Compared to the LTM**

**1.0 Rainfall Pattern**

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

**1.1 Rainfall Amount**

The total rainfall amount for the first dekad of March, 2020 is presented in Map1 On a daily basis observation, light to heavy rains were recorded in most parts of Rwanda. The accumulation of rainfall in ten days ranged from 163.4mm (Kanombe airport in Kicukiro) which is the highest and the lowest is 36.9mm at Gisenyi station. The Eastern, Central South-west and Southern Province were wet compared to other regions of the country.

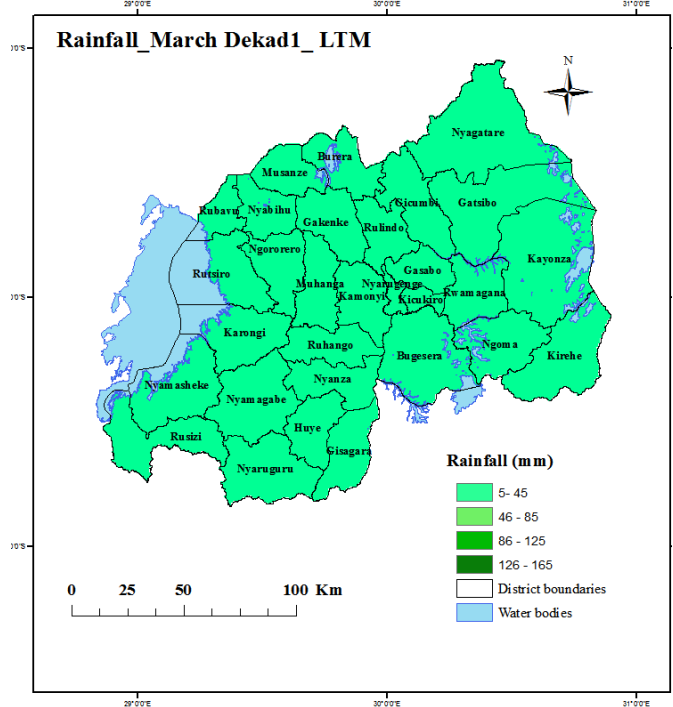


**Map1: Rainfall amount during 1<sup>st</sup> Dekad of March 2020**

**1.2 Rainfall for LTM climatology for the 1<sup>st</sup> dekad of March**

The rainfall climatology for the 1<sup>st</sup> dekad of March is shown in Map2 below, which indicates that rainfall usually range from 50.7mm to 5.2mm across the country.

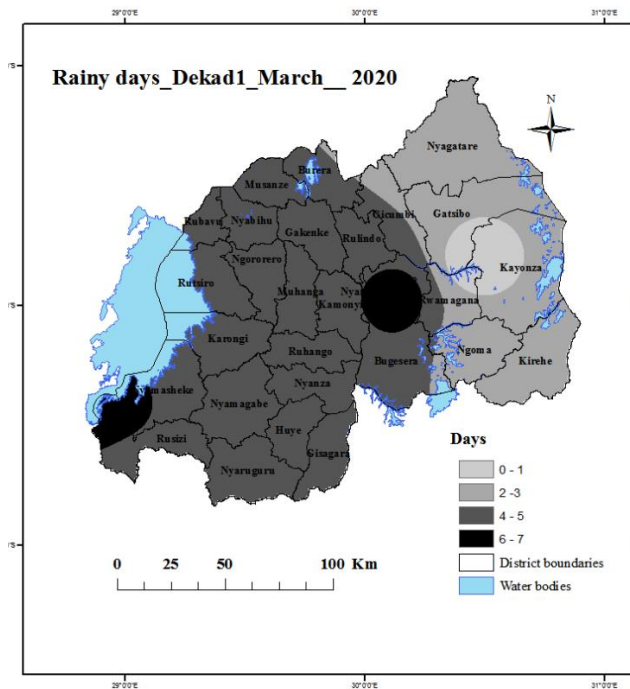
Comparing the current dekad and the Long Term Mean(LTM) for the same period, it was observed that rainfall in the 1<sup>st</sup> dekad of March 2020 was above the LTM in most parts of the country leaving Rubavu and Busogo stations received rainfall (40 mm) which in the same range as LTM and it was the least rainfall recorded during the dekad (LTM).



**Map2: Rainfall amount during 1<sup>st</sup> Dekad**

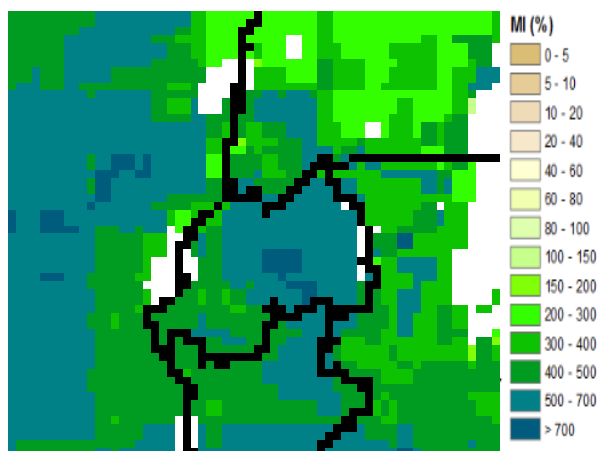
**1.3. Number of Rain Days**

Map3 below shows the distribution of number of rainy-days for the 1<sup>st</sup> dekad of March 2020. A rainy day is defined as a day with rainfall of 0.85mm or more. A total of 1 to 7 days were observed across the country. It can be seen that most parts of the country had days ranged between 4 to 7 days of rainfall. A minimum of three days was observed at Kawangire station. The maximum of 7 days were received at Kigali airport and Rusizi stations respectively.



map3: Rainy days

#### 1.4 Soil moisture index



Map4: Soil Moisture Index

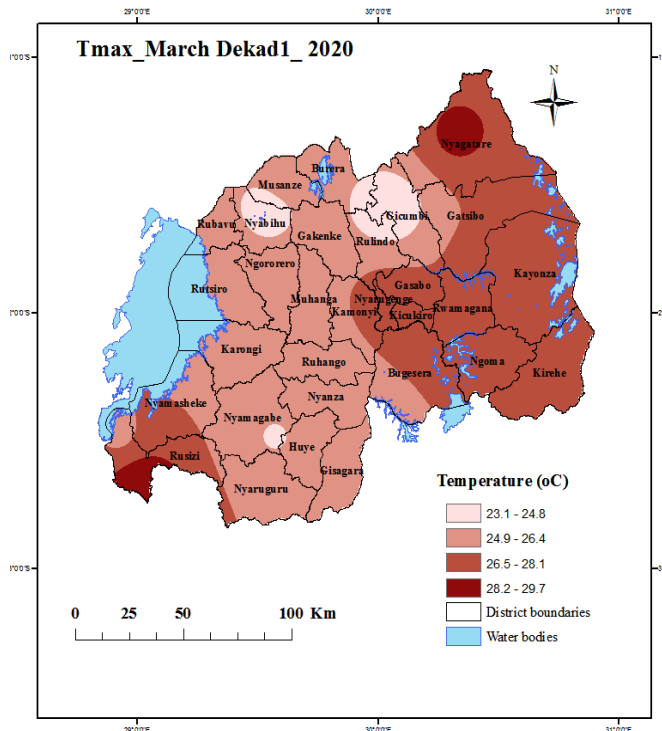
The distribution of available soil moisture across the country is shown in Map 4. Soil moisture increased in most parts of the country due to wet days experienced during this dekad. The expectation is that wet conditions will persist in next dekad therefore, soil moisture across the country will be increased.

## 2.0 Temperature observation

The average of maximum and Minimum temperature across the country during the 1<sup>st</sup> dekad of March 2020 is highlighted below in this section.

### 2.1 Maximum Temperature

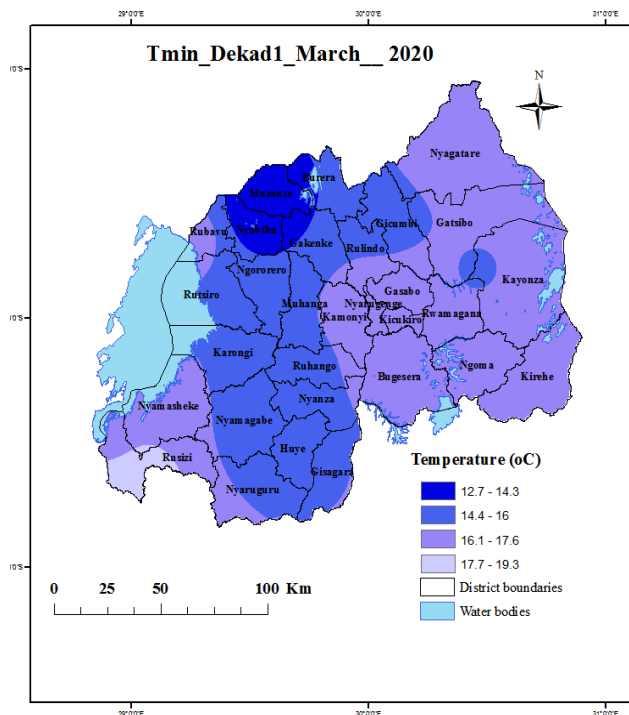
Map5 below shows the actual mean maximum temperature distribution across the country which indicates that the Southwest, Kigali City and East provinces were warmer compared to Northern province and Southern province. However, in most parts of the country the maximum temperature was normal range and ranged between 23.1 and 29.7°C respectively.



Map5: Mean Maximum Temperature For the 1<sup>st</sup> dekad of March 2020

## 2.2 Minimum Temperature

The average minimum temperature across the country is shown in Map 6 below. The Northern experienced colder temperature compared to other regions of the country, even though the minimum temperature ranged between 12.6°C (Busogo) and 19.2°C (Bugarama).



**Map 6: Mean Minimum Temperature for 1<sup>st</sup> dekad of March 2020**

## 3.0 Weather Outlook and Agricultural for the 2<sup>nd</sup> dekad (11-20) March 2020.

### 3.1 Weather Outlook for the 2<sup>nd</sup> dekad of March 2020.

Comparing the 1<sup>st</sup> dekad of March 2020 and the 2<sup>nd</sup> dekad of March; there will be a slight decrease of rainfall amount in the 2<sup>nd</sup> dekad of March; light to moderate rainfall is expected in most parts of the country. Expected rainfall amount will be between 50 to 80 milimeter during the forecasting period.

### 3.2 Agricultural Activity/Advisories

Wet weather conditions in the 2<sup>nd</sup> dekad of March 2020 from 11<sup>th</sup> to 20<sup>th</sup>, farmers are advised to plant seeds advised by Agriculture officers within their location. For more meteorological information you can visit Meteo Rwanda website:

[www.meteorwanda.gov.rw](http://www.meteorwanda.gov.rw)