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Agrometeorological Bulletin No.2, Dekad2, January (11-20) 2020
Issued on 22nd January 2020

Summary

In the second Dekad (11-20) of January 2020, most parts of the country received light to moderate rainfall which was below the Long Term Mean(LTM), leaving Nyamagabe with normal rainfall and above normal rainfall at Busogo, Bugarama, Rubengera and Kawangire stations. In this dekad, the highest rainfall amount was recorded at Busogo station (77.8mm), Rubengera station (63.8mm) and Kawangire station received 49.9mm. While less rainfall was received at Nyagatare station(0.1mm). Generally Southern, Western and Northern Province were wet compared to the other regions of the country. The temperature was in normal range. The maximum temperature ranged between 30.9°C in Bugarama and 22.2°C in Gicumbi. Minimum temperature ranged between 19.4°C at Bugarama and 12.0 °C at Busogo station.

1.0 Rainfall Pattern

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

1.1 Rainfall Amount

The total rainfall amount for the second dekad of January , 2020 is presented in figure 1. On a daily basis observation, light to moderate rains were recorded in most parts of Rwanda. The accumulation of rainfall in ten days ranged from 77.8mm(Busogo) which is the highest to the lowest which is 0.1mm at Nyagatare station. The South western and North western regions were wet compared to other regions of the country.

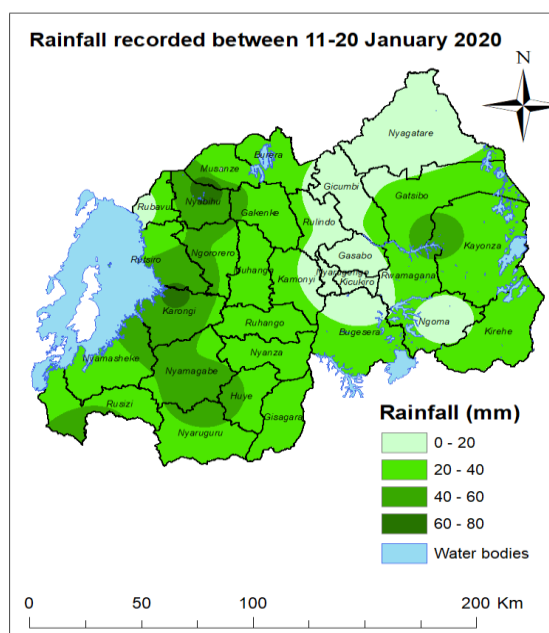


Figure 1: Rainfall amount

1.2 Rainfall climatology in the 2nd dekad

The rainfall climatology for the 2nd dekad of January is shown in figure 2 below, which indicates that rainfall usually range from 44.6mm to 11.8mm across the country. Comparing the current dekad and the Long Term Mean(LTM) for the same period, it was observed that rainfall in the 2nd dekad of January 2020 was below the LTM in most parts of the country except Busogo, Rubengera, Bugarama, and Kawangire stations with the above normal to the Long Term Mean (LTM).

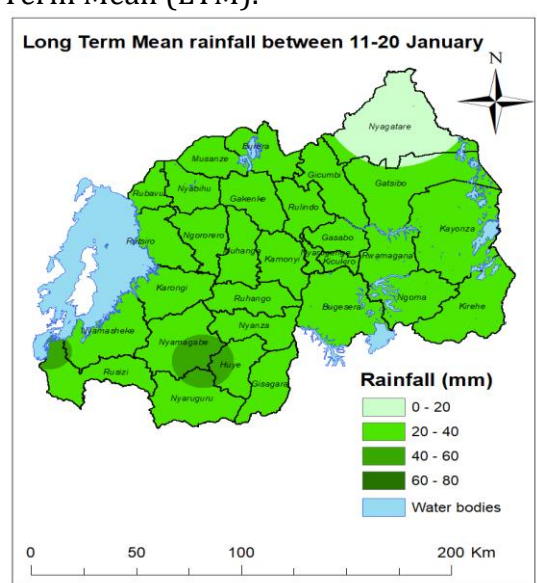


Figure 2: Rainfall distribution in long term

1.3. Number of Rain Days

Figure 3 below shows the distribution of number of rain-days for the 2nd dekad of January 2020. A rainy day is defined as a day with rainfall of 0.85mm or more. A total of 2 to 6 days were observed across the country. It can be seen that most parts of the country had days ranged between 3 to 4 days of rainfall. A minimum of 2 days was observed at Kigali Airport station. The maximum of 6 days were received at Rubengera station. The exception was Nyagatare station where no rainy day was observed during this dekad.

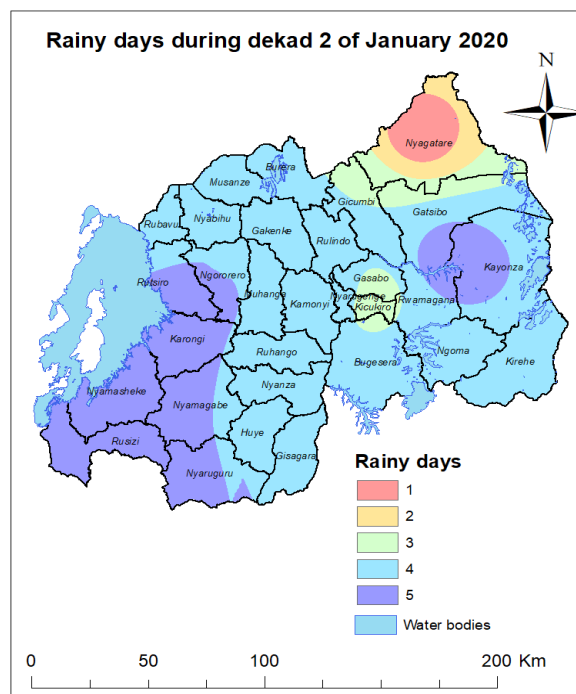


Figure 3: Rainy days

1.4 Soil moisture index



Figure 4: Soil Moisture Index

The distribution of available soil moisture across the country is shown in figure 4. Soil moisture reduced in most parts of the country due to dry days experienced during this dekad. The expected dry period will persist in the next dekad hence leading to more decrease of soil moisture across the country.

For more meteorological information you can visit **Meteo Rwanda** website: www.meteorwanda.gov.rw.