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Summary

In Dekad 1, November 2019, some parts of Northern Province and Kigali City received the high amount of rainfall than the rest of the country; where the station of Busogo recorded 68.5 mm and Gitega 47.7mm. Less rainfall observed in North-eastern province and Central-western province; Rubengera received 4.0mm, Nyagatare 9.5mm and Kawangire 9.7mm. There was a slight increase of temperatures; the maximum temperature ranged between 32.0°C in Bugarama and 21.4°C in Gicumbi. Minimum temperature ranged between 9.8.°C at Ruhengeri and 18.3 at Bugarama stations.

1.0 Rainfall Pattern

This section provides the observed rainfall amount, rainy-days and available soil moisture for the first dekad of November, 2019.

1.1 Rainfall Amount

The total rainfall amount for the first dekad of November, 2019 is presented in figure 1. On a daily basis observation, moderate rains were recorded in most parts of Rwanda. The accumulation of rainfall in ten days ranged from 68.5 mm to 4.0mm. The highest rainfall total was recorded at Busogo (68.5mm) and Gitega (47.7mm) respectively. However, Rubengera, Kawangire and Nyagatare recorded less than 10mm during the dekad. The Northern and Central were wet compared to other parts of the country.

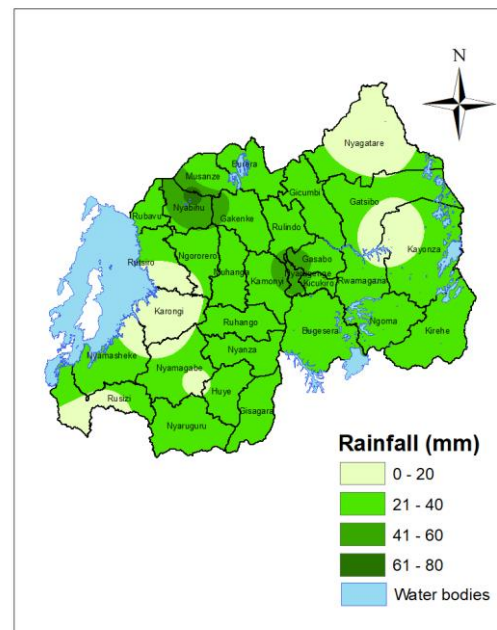


Figure1: Rainfall amount in mm

1.2 Rainfall climatology in the 3rd dekad

The rainfall climatology for the 1st dekad of November is shown in figure 2 below, which indicates that rainfall usually range from 32.3mm to 65.6mm across the country. Comparing the current dekad and the Long Term Mean(LTM) for the same period, it was observed that rainfall in the 1st dekad of November 2019 was below the LTM in most parts of the country except Busogo station that recorded a slightly increased rainfall of 68.5mm.

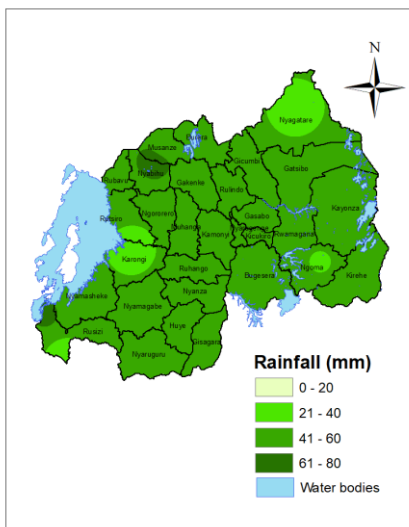


Figure 2: Rainfall distribution in long term

1.3. Number of Rain Days

Figure 3 shows the distribution of number of rain-days for the 1st dekad of November 2019. 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 3 and 6 days of rainfall except some parts of Western Province (Bugarama and Rubengera) and North-Eastern (Nyagatare) where the rainy days were between 1 to 2 days. The exception was on Gicumbi which received rainfall in 7 days.

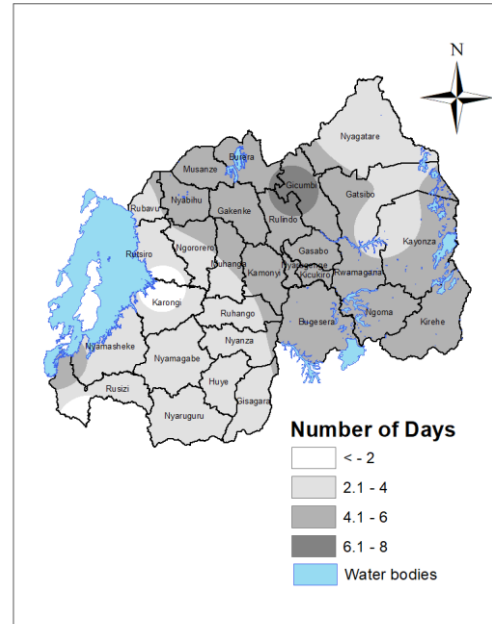


Figure 3: Rain day

2.0 Temperature observation

The average maximum temperature across the country during the dekad is highlighted below in this section.

2.1 Maximum Temperature Trend

Figure 4 below shows the actual mean maximum temperature distribution across the country which indicates that the West, East province and Central regions of the country are warmer compared to Northern province and Southern province. However, in most parts of the country the maximum temperature ranged between 21.4 and 26.8°C, with exceptional of Bugarama which recorded 32.0°C.

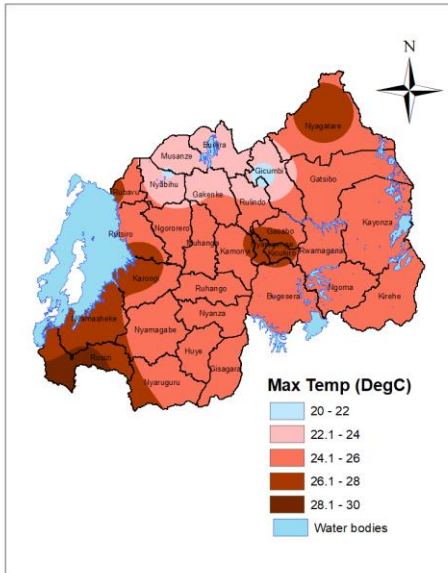


Figure 4: Mean Maximum Temperature

2.2 Minimum Temperature

The average minimum temperature across the country is shown in figure 5 below. The Northern region experienced temperature which were in the range of LTM with a tendance to below which was colder. The minimum temperature ranged from 9.8°C (Ruhengeri) to 18.3°C (Bugarama).

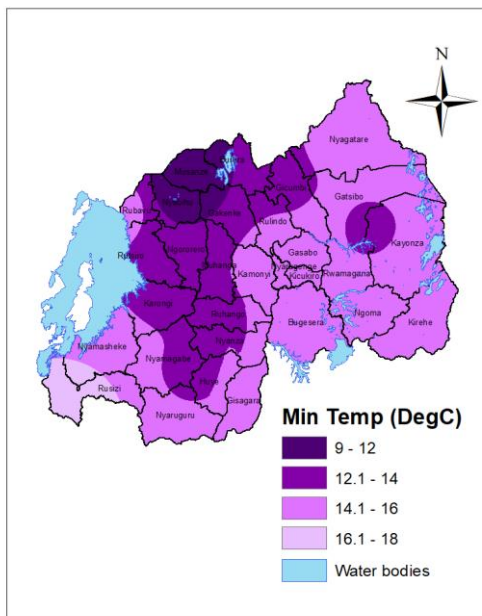


Figure 5: Mean Minimum Temperature

1.4 Soil moisture index

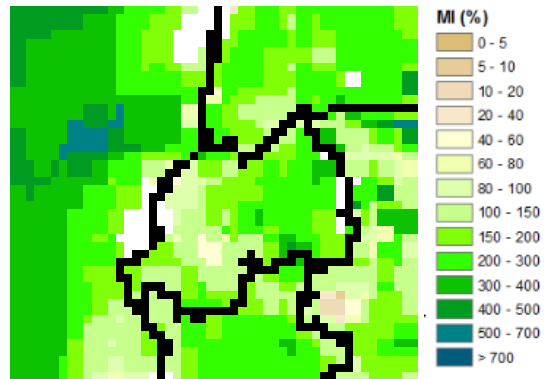


Figure 6: Soil Moisture Index

The distribution of available soil moisture across the country is shown in figure 6 above. Soil moisture reduced in most parts of the country due to dry spells that occurred between 1st and 10th of November 2019. The expectation is that rain conditions are likely to increase in the coming dekad hence leading to increase of soil moisture across the country.

3.0 Weather Outlook and Agricultural for the 2nd dekad (11-20) November, 2019.

3.1 Weather Outlook

Due to warm air from Northern Africa and cold air from Southern Africa that converge over the region where Rwanda located, rains with thunderstorms are expected over most parts of the country; Moderate to heavy rains are expected over the Western, Southern, Northern provinces, Eastern province as whereas Kigali City are expected to receive light to moderate rains.

3.2 Agricultural Activity/Advisories

The conditions are expected to increase in 2nd dekad of November 2019 from 11th to 20th, farmers are advised to work closely with Agriculture officers within their location.

For more meteorological information you can visit MeteoRwanda website:

www.meteorwanda.gov.rw.