



REPUBLIC OF RWANDA
MINISTRY OF ENVIRONMENT
RWANDA METEOROLOGICAL AGENCY



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Summary

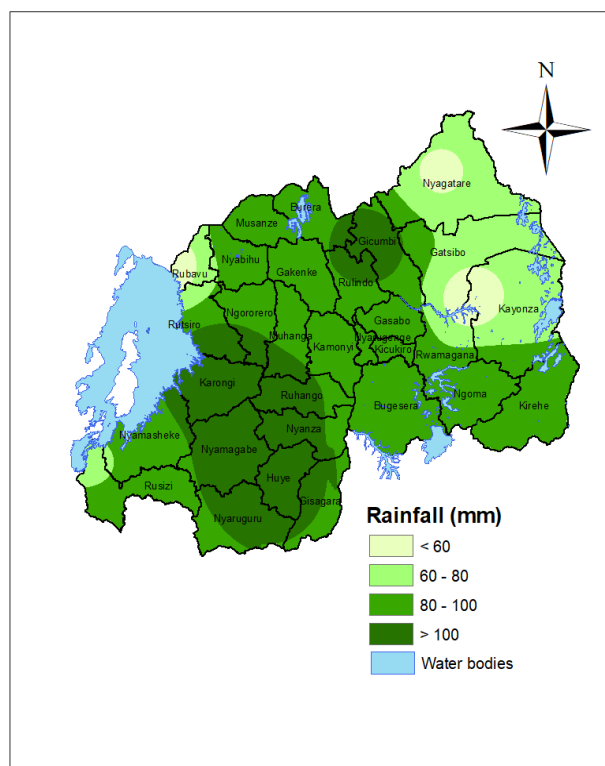
Most parts of the country experienced moderate rainfall, Gicumbi received the highest rainfall amount of 133.5mm on the other hand moderate rainfall total of 29.4mm was recorded at Bugarama station. The rainfall pattern is linked to the position of Inter Tropical Convergence Zone (ITCZ) which indicates the expectation of continuation of light to moderate rainfall in this coming ten days. The country recorded between 4-11 rain-days, the observed soil moisture was above the Long Term Mean (LTM) conditions in the entire country and a slight increase in soil moisture was evident. The highest mean maximum and minimum day time temperatures ranged between 28.9C to 18.8 °C (over Bugarama) and this was the normal temperature range in the most parts of the country. Farmers are expected to continue to experiencing wet conditions.

1.0 Rainfall Pattern

This section provides the observed rainfall amount, rainy-day, available soil moisture for the third dekad of October, 2019.

1.1 Rainfall Amount

The total rainfall amount for the third dekad of October, 2019 is presented in figure 1. Considering daily observations, moderate to heavy rains were recorded in most parts of Rwanda. The accumulation of rainfall in eleven days was ranging between 29.4mm to 133.5mm. The highest rainfall total was recorded at Gicumbi (133.5mm) followed by Busogo (123.6mm), Musanze (111.9mm) and Gitega (91.4mm) respectively. However, Bugarama and Rubavu recorded values which were below 40mm during the dekad. The Northern and North Eastern parts were



wet compared to the Southern and Western parts of the country.

1.2 Rainfall climatology in the 3rd dekad

The rainfall climatology for the 3rd dekad of October is shown in the figure 2 below. The rainfall usually range from 34mm to 70mm across the country. Comparing the current dekad and the Long Term Mean(LTM) for the same period, it is clearly evident that the observed rainfall during the 3rd dekad was above the LTM over most parts of the country.

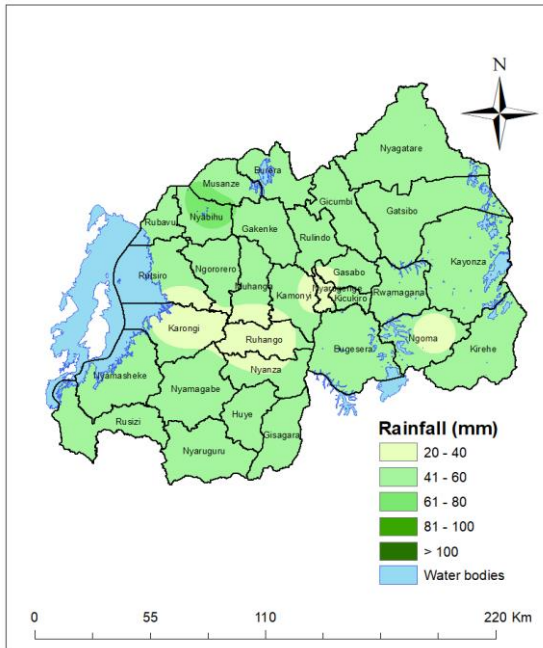


Figure 2: Long Term Mean rainfall distribution

1.3. Number of Rain Days

Figure 3 below indicates the number of rain-days during the 3rd dekad of October 2019. The total number of days observed across the country ranged from 4 to 11. It can be seen that most parts of the country had greater than 7 days of rainfall except the Southwestern regions where the rainy days were less than 6 days.

Figure1: Rainfall amount in mm

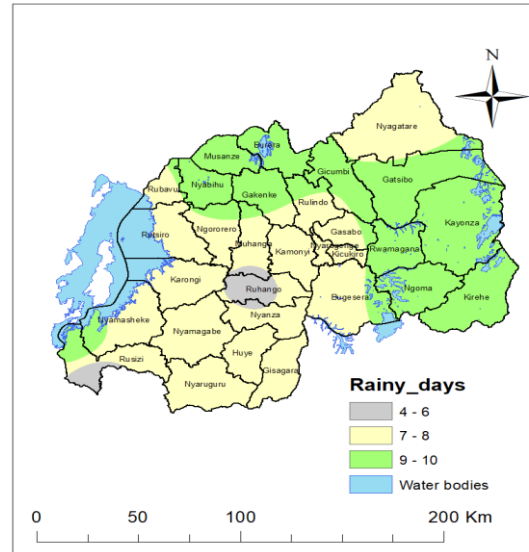


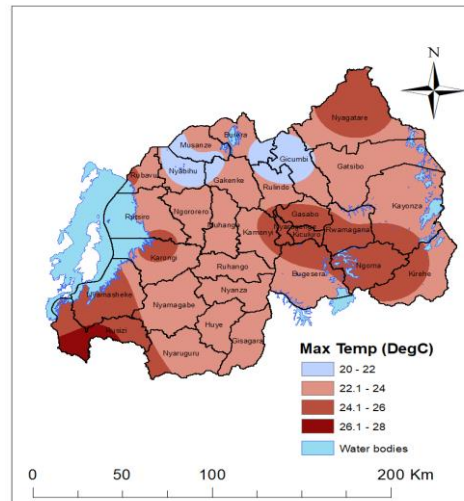
Figure 3: Rain day

2.0 Temperature observation

The average maximum temperature across the country during the 3rd dekad is highlighted in this section.

2.1 Maximum Temperature Trend

Figure 4 below shows the actual mean maximum temperature distribution across the country where Western, Eastern provinces and central parts of the country were warmer compared to Northern and Southern provinces. However, most parts of the country were below 25°C except Bugarama which had 28.9°C.



2.2 Minimum Temperature

The minimum temperature across the country is shown in figure 5. The Northern parts experienced moderate to colder temperature. The minimum temperature was ranged from 10.7 (over Busogo) to 18.8°C (over Bugarama).

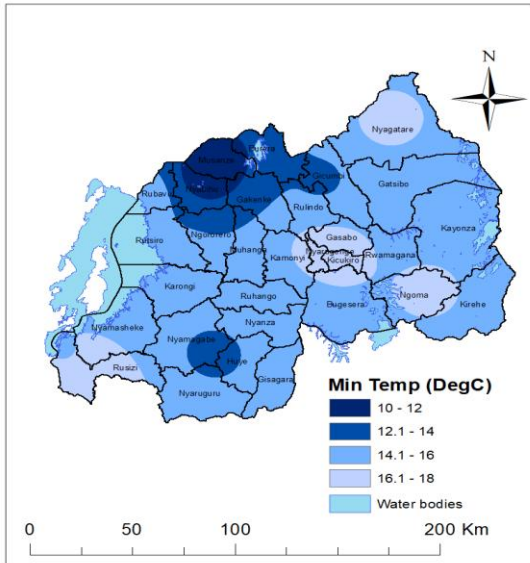


Figure 5: Mean Minimum Temperature

1.4 Soil moisture index

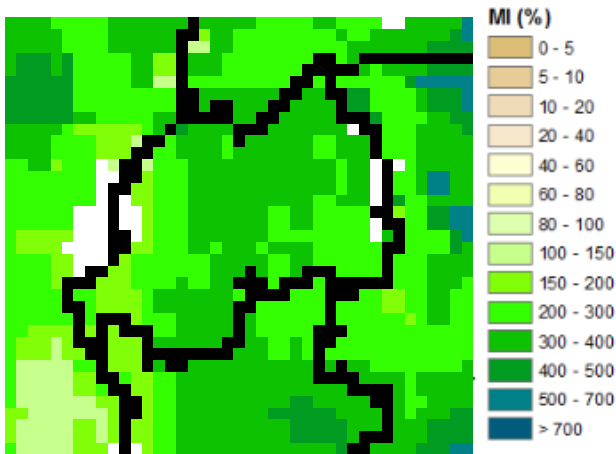


Figure 6: Soil Moisture Index

The distribution of available soil moisture across the country is shown in figure 6 above. Most parts of the country had normal to above normal soil moisture. The next dekad is expected to have a slight increase in soil moisture.

Figure 4: Mean Maximum Temperature 3.0 Weather Outlook and Agricultural for the 1st dekad (01-10) November, 2019.

3.1 Weather Outlook

The Inter-Tropical convergence zone (ITCZ) is expected to continue to be positioned in the Region where Rwanda is located. The weather conditions is expected to be wet across the country with chance of rain and thunderstorms. Light to Moderate rains are expected over the Southern, Northern, North Eastern while light rain in Western and South Eastern parts of the country.

3.2 Agricultural Activity/Advisories

The Seasonal Rainfall forecast pattern for September to December (SOND) 2019, the country is experiencing the rainy season. Weather conditions are expected to be rainy-cloudy and clear sunny days in some occasions, farmers can take advantage of the period. Farmers are advised to clean drainage system in order to avoid clogging water ways which lead to flooding and diseases transmission .

Farmers are advised to visit www.meteorwanda.gov.rw or contact an agronomist nearby for more information and guidance.

