



**Highlights:**

- o **The cumulative rainfall** for dekad2\_April\_2019 shows that the northwest received less rainfall amount compared to the rest of the country and also ranging in the below normal category in comparison with the LTM (Long-Term Mean); the remaining representative stations are in the normal to above range as compared to the LTM
- o The soil moisture index rather increased than reducing because of the cloudy conditions that prevailed country wide and the rainfall events which occurred in the mid of the dekad2 April\_2019
- o The forecast for dekad3\_April\_2019, we expect a wetspell countrywide and more rains over the volcanoes area and near the Nyungwe Forest

**I. Introduction**

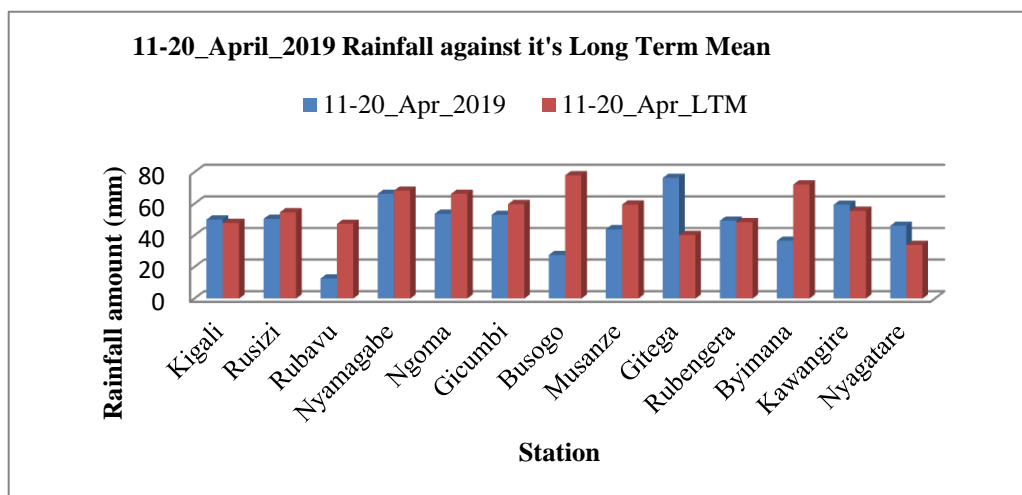
The dekad2\_April\_2019 shows that the cumulative rainfall over the northwest was less as compared to what was observed elsewhere within the country and also ranging in the below normal category in comparison with the LTM (Long-Term Mean); the remaining representative stations are in the normal to above range as compared to the LTM

a) The table and histogram below indicates the rainfall recorded during dekad2 April\_2019:

**Cumulative rainfall (in mm) recorded at different stations**

Station	Dekad 2_Apr_2019	Dekad2_Apr_LTM
Kigali	50.0	47.9
Rusizi	50.5	54.6
Rubavu	12.7	47.3
Nyamagabe	66.3	68.3
Ngoma	53.7	66.3
Gicumbi	53.0	59.8
Busogo	27.6	78.0
Musanze	43.9	59.5
Gitega	76.4	40.2
Rubengera	49.3	48.3
Byimana	36.6	72.2
Kawangire	59.4	55.5
Nyagatare	46.1	33.9

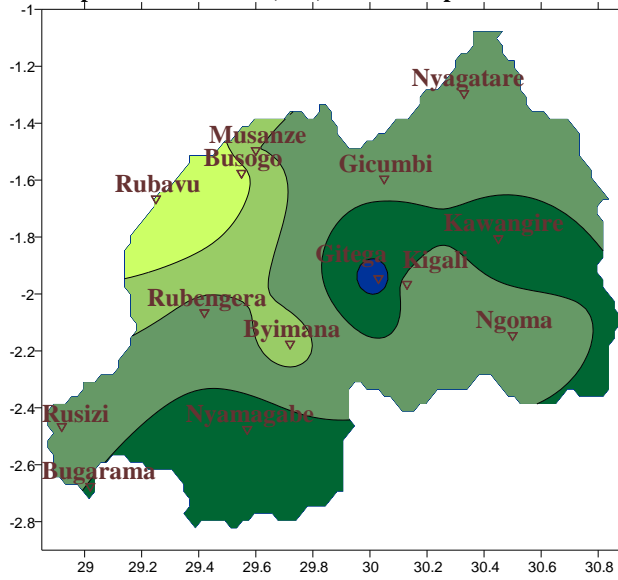
Table1



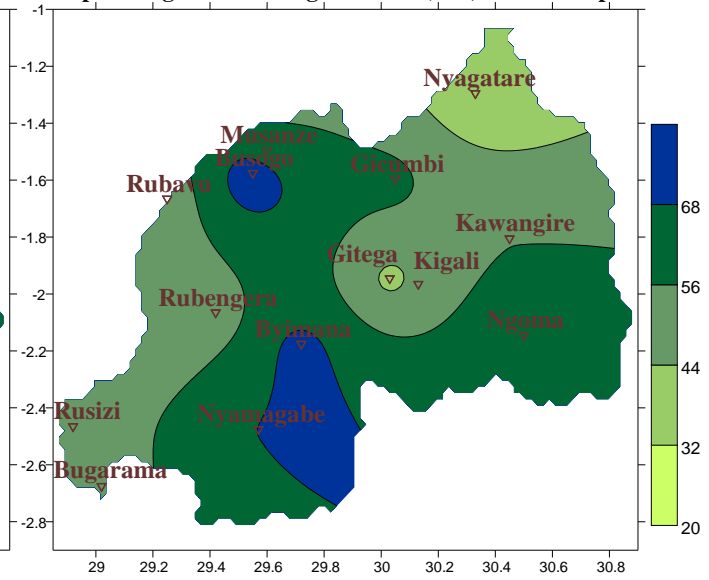
Plot1

b) **Rainfall analysis:** The maps “**Map 1 and 2**” below shows the cumulative rainfall recorded during dekad2\_April\_2019 and the LTM cumulative rainfall for the same period  
 The maps “**map 3 and 4**” shows the cumulative rainfall recorded during dekad1\_April\_2019 and the LTM cumulative rainfall for the same period

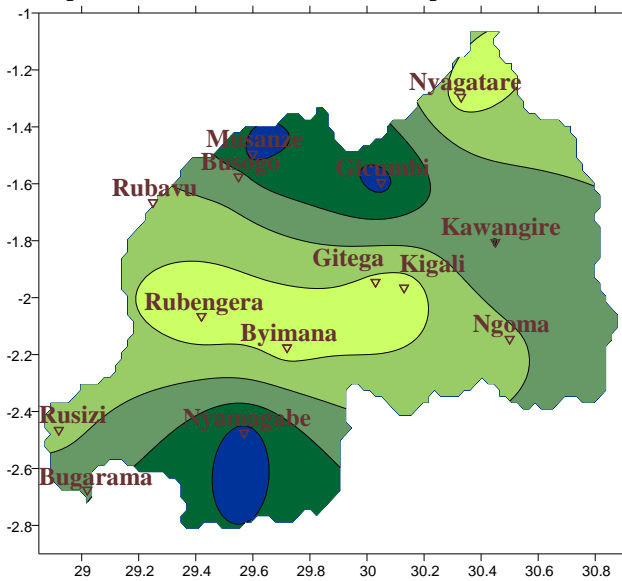
**Map1: Total Rainfall (mm): dekad2\_Apr\_2019**



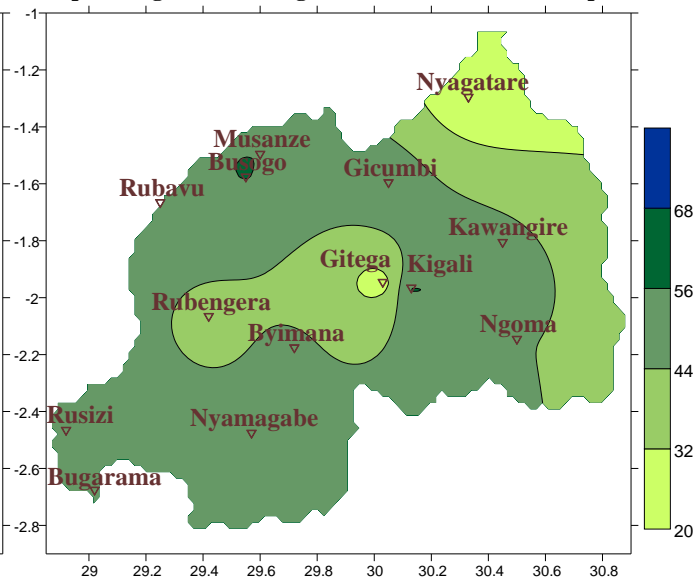
**Map2: Long Term Average Rainfall (mm): dekad2\_Apr\_LTM**



**Map1: Total Rainfall (mm): dekad1\_Apr\_2019**



**Map2: Long Term Average Rainfall (mm): dekad1\_Apr\_LTM**

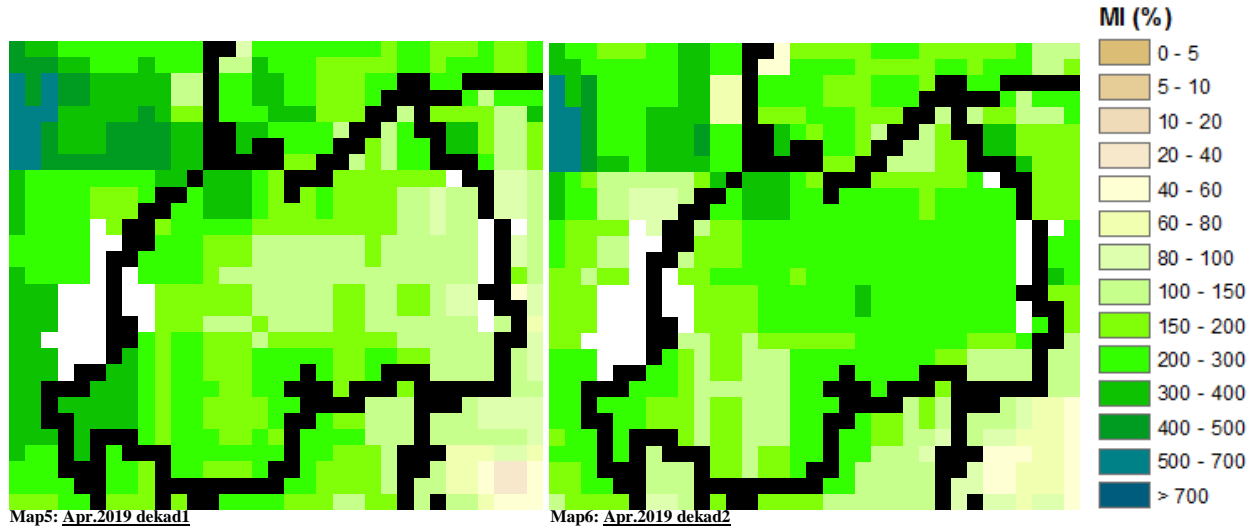


## II. Detailed observed rainfall during the dekad2\_April\_2019

The dekad2\_April\_2019 shows that the cumulative rainfall over the northwest (at Musanze, Busogo and Rubavu stations) was less as compared to what was observed elsewhere within the country and also ranging in the below normal category in comparison with the LTM (Long-Term Mean); the remaining representative stations are in the normal to above range as compared to the LTM (see **Map1&2** and **Table1**); while dekad1\_April\_2019 was in the below range in comparison with the LTM over the central and west; while the rest of the country is in the normal to above range (see **Map3&4**)

### III. Agricultural impact.

#### a) Satellite images: Soil Moisture Index (MI)



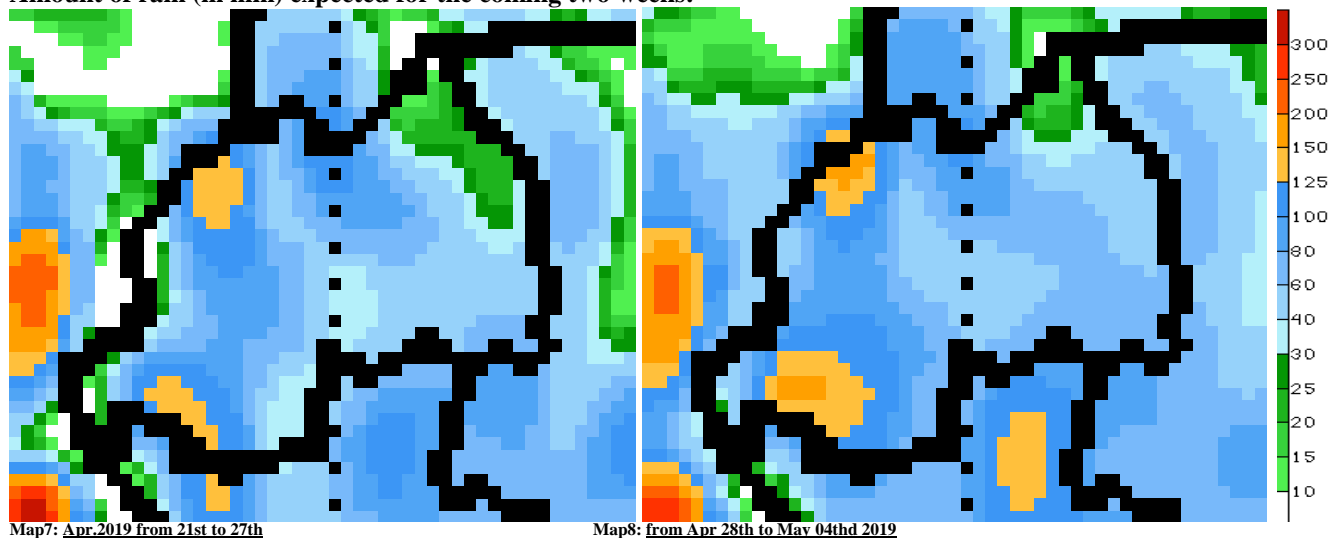
During dekad1 to dekad2\_April\_2019; the soil moisture index rather increased than reducing because of the cloudy conditions that prevailed country wide and the rainfall events which occurred in the mid of the dekad2 April\_2019 (see **Map 5&6**)

#### b) Rainfall forecast for dekad3 April\_2019

The forecast for dekad3\_April\_2019, we expect a wet spell countrywide and more rains over the volcanoes area and near the Nyungwe forest:

- **Kigali City:** is expected to receive rainfall amount ranging from 40mm to 100mm within these coming two weeks
- **Eastern Province:** is expected to receive rainfall amount ranging from 30mm to 80mm within these coming two weeks
- **Southern Province:** is expected to receive rainfall amount ranging from 50mm to 140mm within these coming two weeks
- **Western Province:** is expected to receive rainfall amount ranging from 80mm to 200mm within these coming two weeks
- **Northern Province:** is expected to receive rainfall amount ranging from 60mm to 140mm within these coming two weeks

#### Amount of rain (in mm) expected for the coming two weeks:



**N.B:** This forecast should be used in conjunction with the daily (24-hour), Three (3), Five (5) and Seven (7) days forecasts issued by the Rwanda Meteorology Agency (Meteo Rwanda)