



Highlights:

- **The cumulative rainfall** for dekad2_February_2019 was enhanced only in the southwest but reduced elsewhere within the country
- The satellite imagery shows the reduction of moisture in the soil because of the last days of these second dekad which were dry and so the soil moisture index going down.
- The rainfall during dekad3_February_2019 is expected to be more wet than the previous dekad especially in the higher lands of the country.

I. Introduction

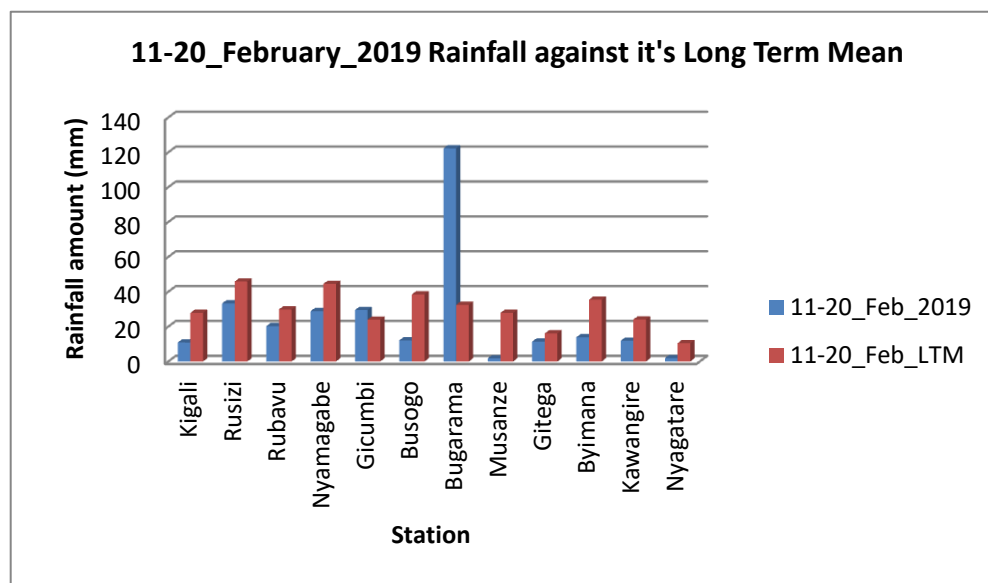
The rains of dekad2_February_2019 was enhanced only in the southwest but reduced elsewhere within the country

a) The table and histogram below indicates the rainfall recorded during dekad2_January_2019:

Cumulative rainfall (in mm) recorded at different stations

Station	Dekad2_Feb_2019	Dekad2_Feb_LTM
Kigali	10.9	27.9
Rusizi	33.3	45.9
Rubavu	20.3	29.9
Nyamagabe	28.9	44.5
Gicumbi	29.5	24.0
Busogo	12.1	38.5
Bugarama	122.3	32.5
Musanze	1.8	27.9
Gitega	11.4	16.1
Byimana	13.9	35.5
Kawangirire	11.9	24.1
Nyagatare	1.91	10.5

Table1

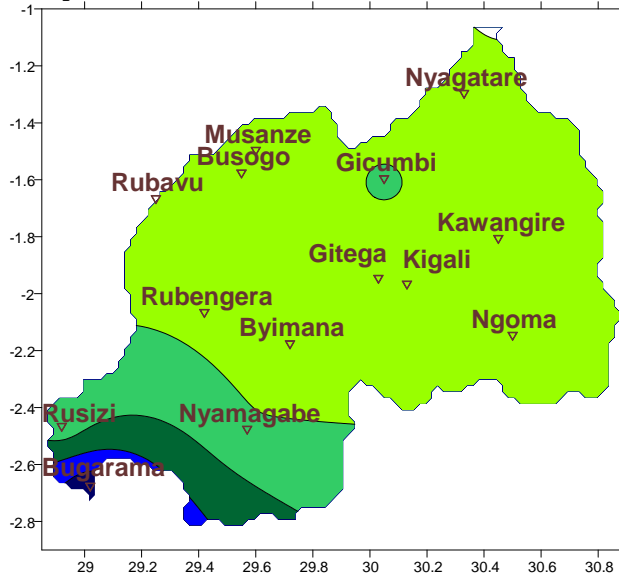


Plot1

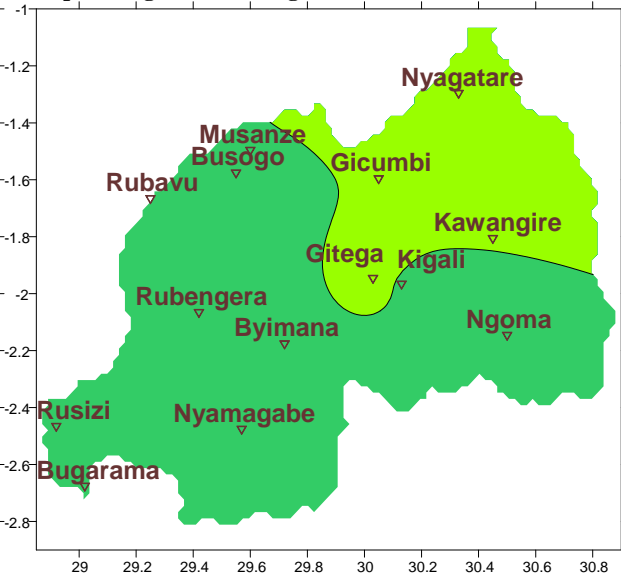
b) **Rainfall analysis:** The maps “Map 1 and 2” below show the cumulative rainfall recorded during dekad2_February_2019 and the cumulative rainfall for the same period for the long term period.

The maps “map 3 and 4” show the cumulative rainfall recorded during dekad1_February_2019 and the cumulative rainfall for the same period

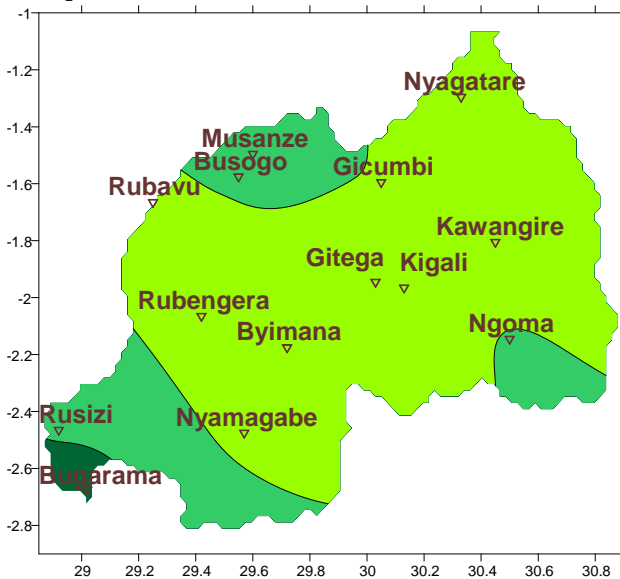
Map1: Total Rainfall (mm): dekad2_Feb_2019



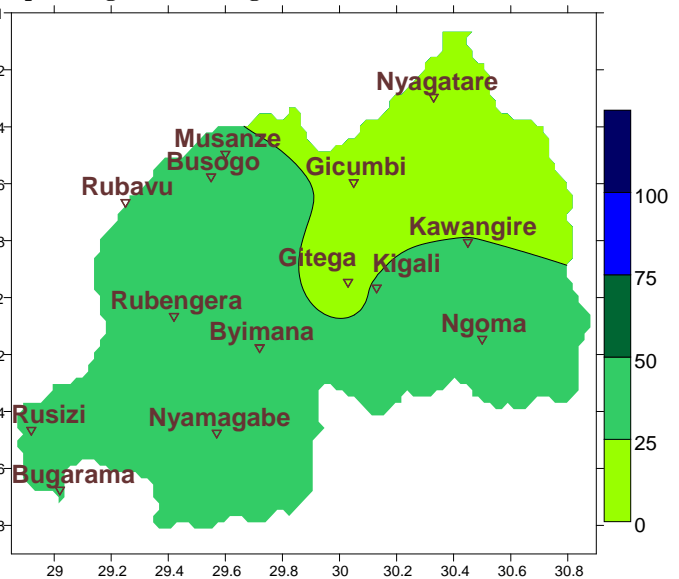
Map2: Long Term Average Rainfall (mm): dekad2_Feb_LTM



Map1: Total Rainfall (mm): dekad1_Feb_2019



Map2: Long Term Average Rainfall (mm): dekad1_Feb_LTM

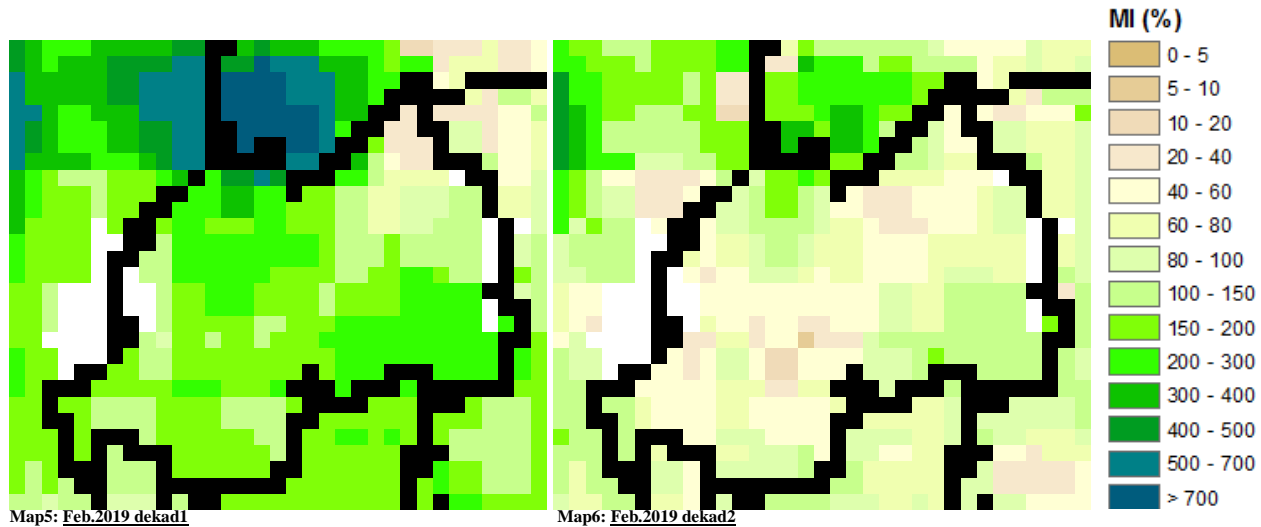


II. Detailed observed rainfall during the dekad2_February_2019

The rains of dekad2_February_2019 was enhanced only in the southwest but reduced elsewhere in the country with Bugarama station having the highest amount 122.3mm of rainfall and the north especially north-east having the lowest (see Map1&2 and Table1); while for dekad1_February_2019; the rains were depressed at almost all representative station except the northwest and south-western parts where the rainfall amount is high above in comparison with what was observed at different stations and also in the above range as compared to the LTM (see Map3&4)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



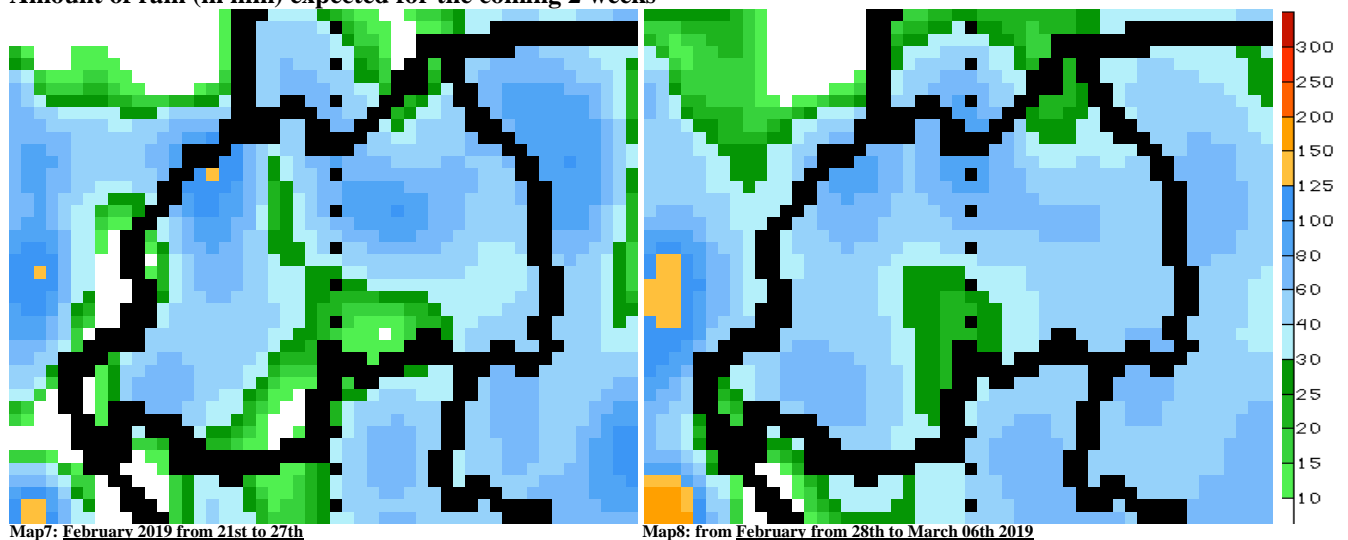
Comparing dekad1 and dekad2_February_2019; the satellite derived moisture index show a decrease of moisture content as a result of dry weather condition that prevailed in the last days of dekad2 as opposed to what was observed in dekad1 (see **Map 5&6**)

b) Rainfall forecast for dekad3 February_2019

The distribution of rains during dekad3_February_2019 is expected to be wetter than the previous dekad especially in the higher lands of the country:

- **Kigali City:** is expected to receive rainfall amount ranging between 60mm and 200mm within these coming two weeks
- **Eastern Province:** is expected to receive rainfall amount ranging between 20mm and 160mm within these coming two weeks
- **Southern Province:** is expected to receive rainfall amount ranging between 20mm and 160mm within these coming two weeks
- **Western Province:** is expected to receive rainfall amount ranging between 60mm and 200mm within these coming two weeks
- **Northern Province:** is expected to receive rainfall amount ranging between 60mm and 200mm within these coming two weeks

Amount of rain (in mm) expected for the coming 2 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)