



Highlights:

- **The cumulative rainfall** for dekad1_February_2019 was depressed elsewhere 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 (Long-term mean)
- The soil moisture is increasing as our region is fetching good moisture from the Indian Ocean by the cyclones which were developed over Madagascar
- The rainfall during dekad2_ February_2019 is expected to increase as compared to what was observed during dekad1_ February_2019

I. Introduction

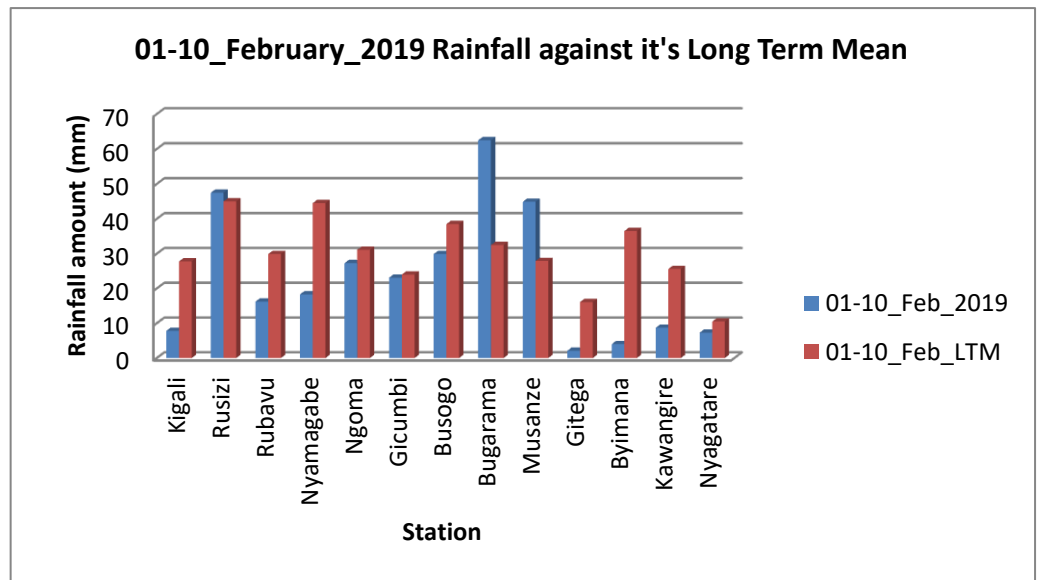
During dekad1_February_2019; the rains were depressed at almost all representative station except the northwest and south-western parts where the rainfall amount is high above in comparison with what was observed at different stations and also in the above range as compared to the LTM (Long-term mean)

a) The table and histogram below indicates the rainfall recorded during dekad1_ February_2019:

Cumulative rainfall (in mm) recorded at different stations

Station	Dekad 1_Feb 2019	Dekad1 Feb_L TM
Kigali	7.8	27.8
Rusizi (Kamembe)	47.5	45.0
Rubavu (Gisenyi)	16.2	29.9
Nyamagabe (Gikongoro)	18.3	44.5
Ngoma (Kibungo)	27.3	31.1
Gicumbi (Byumba)	23.1	24.0
Busogo	29.9	38.5
Bugarama	62.5	32.5
Musanze (Ruhengeri)	44.9	27.9
Gitega	2.1	16.1
Byimana	4.0	36.5
Kawangire	8.7	25.6
Nyagatare	7.3	10.5

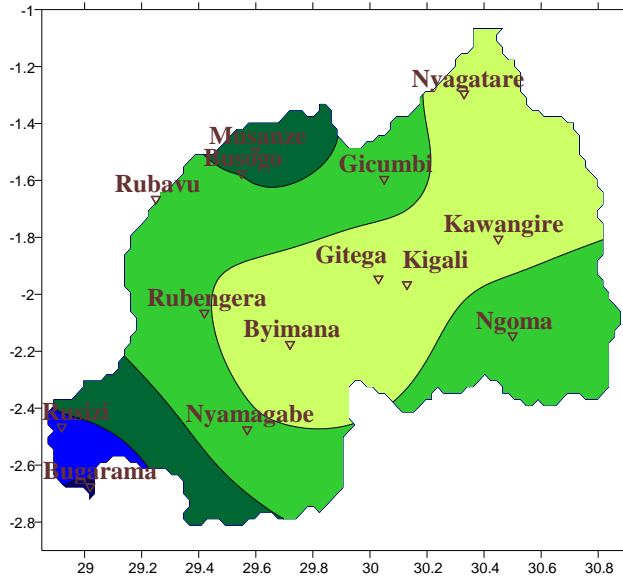
Table1



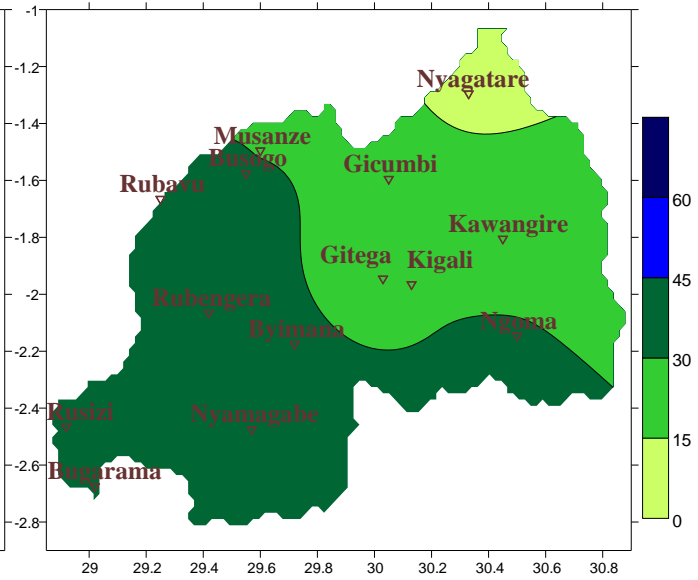
Plot1

b) **Rainfall analysis:** The maps “Map 1 and 2” below show the cumulative rainfall recorded during dekad1_February_2019 and the cumulative rainfall for the same period
 The maps “map 3 and 4” show the cumulative rainfall recorded during dekad3_January_2019 and the cumulative rainfall for the same period

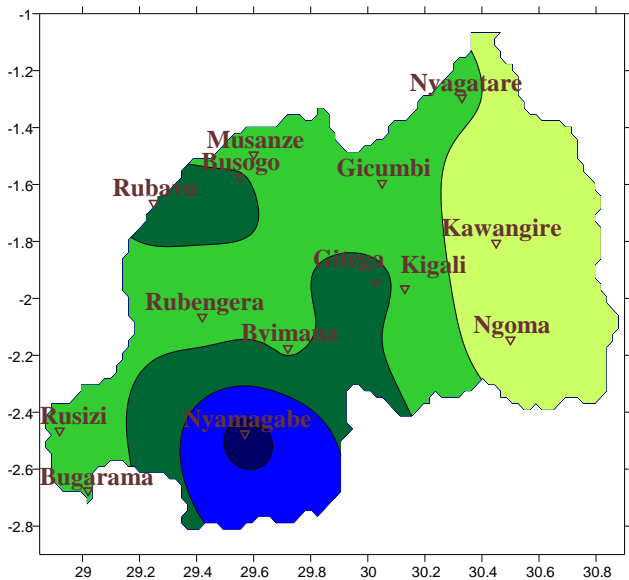
Map1: Total Rainfall (mm): dekad1_Feb_2019



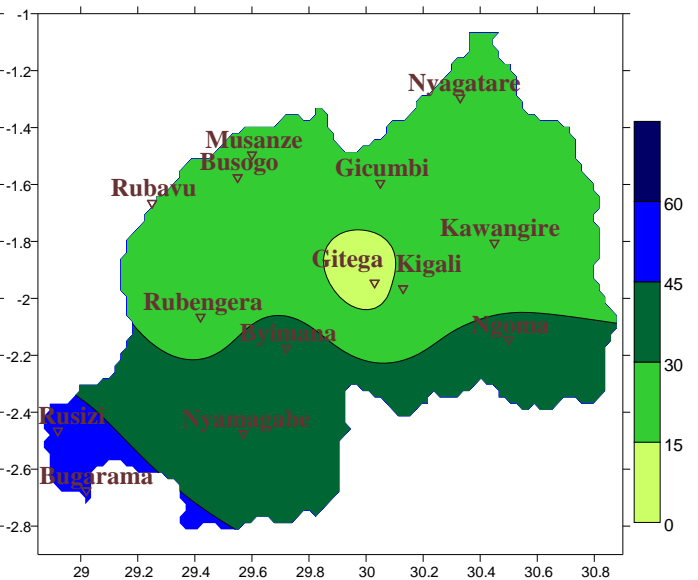
Map2: Long Term Average Rainfall (mm): dekad1_Feb_LTM



Map1: Total Rainfall (mm): dekad3_Jan_2019



Map2: Long Term Average Rainfall (mm): dekad3_Jan_LTM

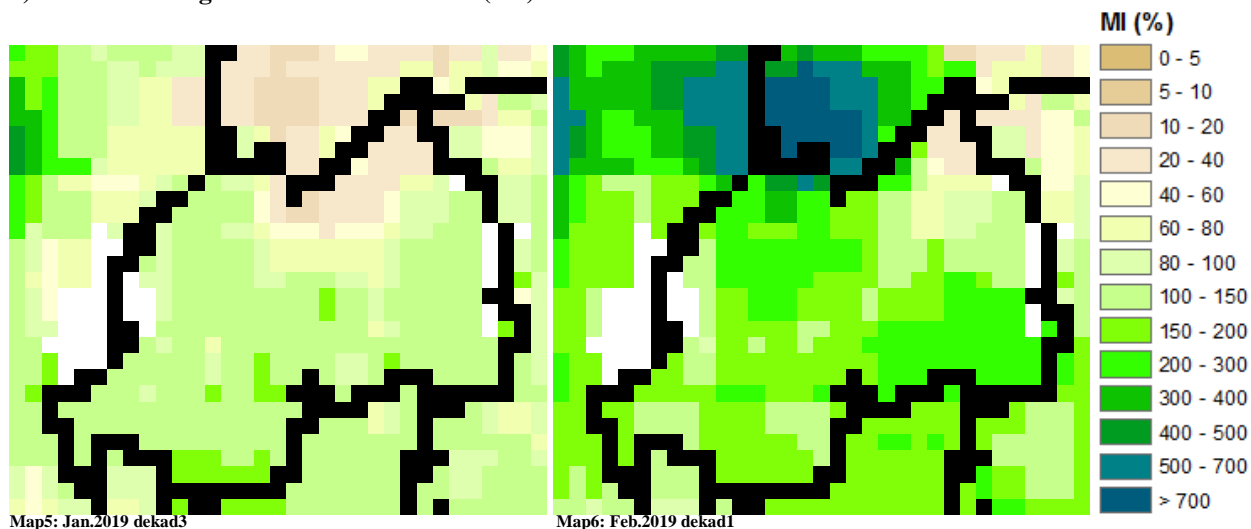


II. Detailed observed rainfall during the dekad1_February_2019

During 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 (where Bugarama station recorded 62.5mm of rainfall; i.e. almost two times of the LTM; see Map1&2 and Table1); while dekad3 of January_2019 (see Map3&4); shows a depressed rainfall amount in all parts of the Eastern Province and high elsewhere within the country; with the southwest being also the most wet compared with the rest of the country

III. Agricultural impact

a) Satellite images: Soil Moisture Index (MI)



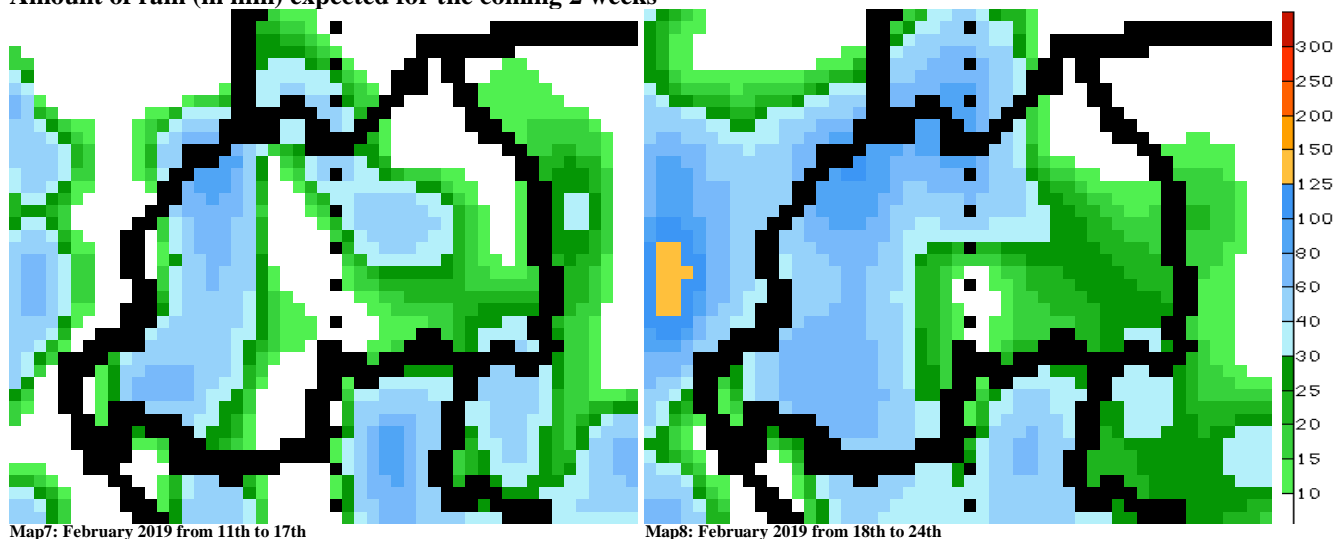
During dekad3_January to dekad1_February_2019; the satellite derived moisture index shows an increase in soil moisture content as result of cloudy conditions and rainfall events that occurred during the last 10 days (see **Map 5&6**)

b) Rainfall forecast for dekad2 February_2019

The rainfall patterns for the second of February_2019 are expected to increase as compared to what was observed during dekad1_February_2019; and also ranging in the normal category of the climatology:

- **Kigali City:** is expected to receive rainfall amount ranging between 20mm and 60mm within these coming two weeks
- **Eastern Province:** is expected to receive rainfall amount ranging from traces to 50mm within these coming two weeks
- **Southern Province:** is expected to receive rainfall amount ranging between 20mm and 100mm within these coming two weeks
- **Western Province:** is expected to receive rainfall amount ranging between 60mm and 100mm within these coming two weeks
- **Northern Province** is expected to receive rainfall amount ranging between 40mm and 100mm 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)