



Highlights:

- **The overall cumulative rainfall;** The second dekad of July was characterised by localized rainfall over different parts of country, Eastern province (Byumba, Kawangire and Nyagatare stations), North province (Busogo station), Western province (Rubengera station). The rest of the stations across the country did not record rainfall which was in line with the Long Term Mean (LTM) weather conditions during the month of July. The an usual rainfall was due to the advection of wind that deposited moisture over the region which caused heavy rainfall in some parts of country more especially in Eastern Province.
- **The soil moisture content decreased in dekad 1 and 2 of July** in most parts of the country the soil moisture was significantly low except in North particularly in Virunga which was due to rainfall observed over that region in two consecutive dekads of July 2019.
- **The rainfall during third dekad of July 2019;** It is expected to prevail dry conditions over most parts of the country and very light rains over Western, Northern and Southern Provinces especially in the areas near Lake Kivu, Volcanoes and Nyungwe forest.

I. Introduction

The 2nd dekad of July 2019; shows that the cumulative rainfall was high over the East, North and Northwest parts of the country which resulted from the rainfall received due to the advection of wind that deposited moisture over the region hence inducing heavy rainfall in some parts of the country especially the Eastern Province.

The table and histogram below indicates the rainfall recorded during dekad2 July 2019:

Cumulative rainfall (in mm) recorded at different stations compare to its Long Term Mean (LTM)

Stations	11-20_July 2019	11_20_July
Kigali	NT	2.5
Rusizi	NT	1.5
Rubavu	0.7	4.8
Nyamagabe	NT	1.1
Ngoma	2.4	0.8
Gicumbi	6.5	0.9
Busogo	18.0	1.6
Bugarama	NT	0
Musanze	NT	2.4
Gitega	NT	0
Rubengera	15.2	0
Byimana	6.5	1.1
Kawangire	21.7	0
Nyagatare	60.1	0

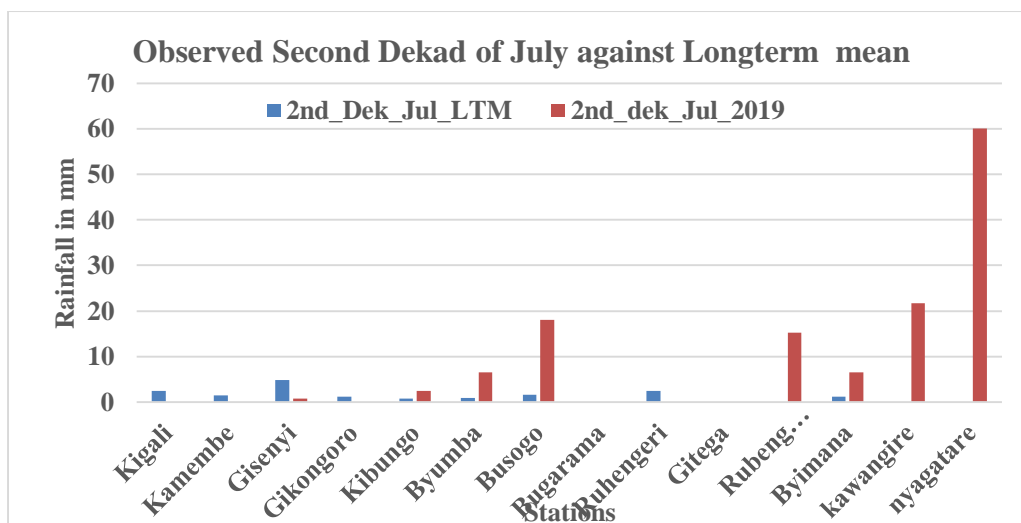
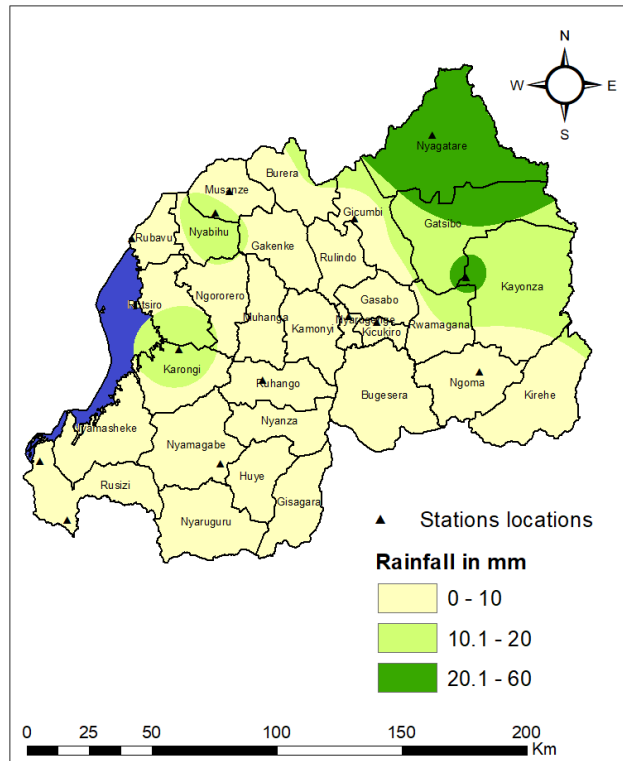


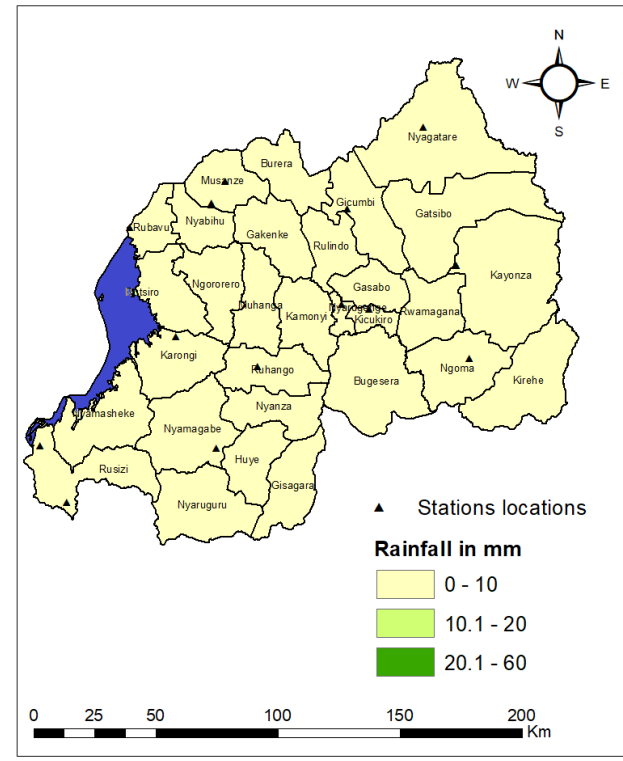
Table1

Figure 1

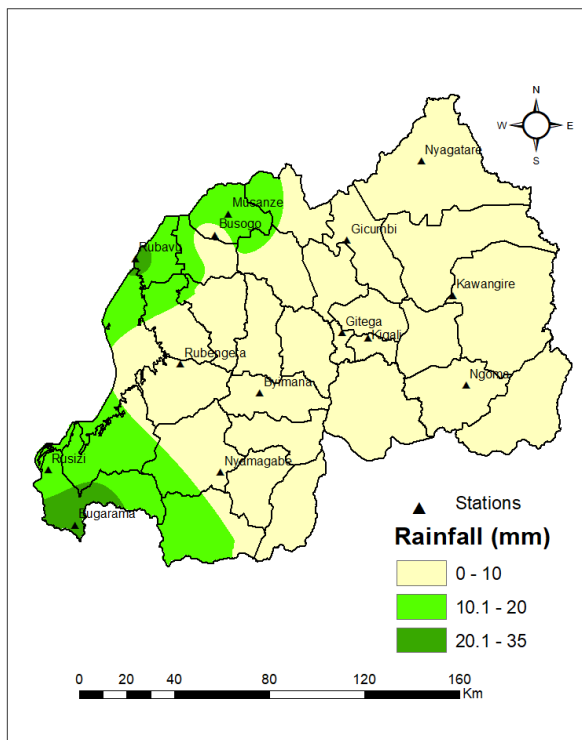
a. **Rainfall analysis:** The maps “Map 1 and 2” below show the cumulative rainfall recorded during dekad2 July 2019 and the cumulative rainfall for the same period in Long Term Mean.



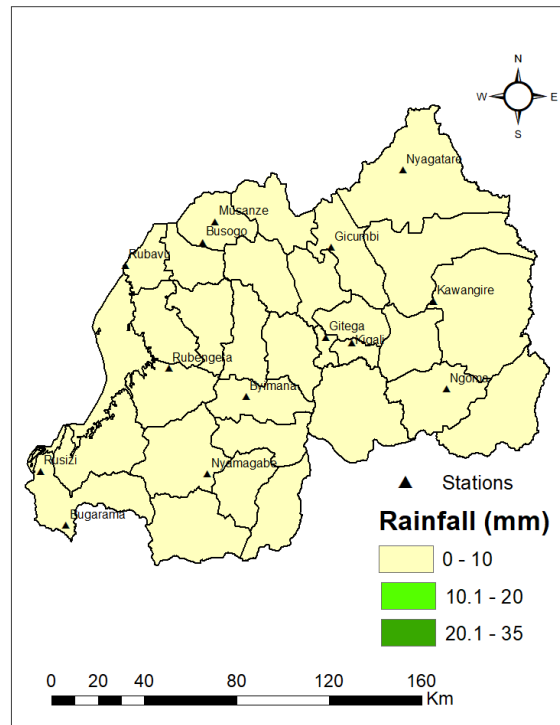
Map 1: Total rainfall ('mm): dekad 2 July 2019



Map 2: Long Term average rainfall (mm): dekad2 July LTM



Map 3: Total rainfall (mm): dekad1 July 2019



Map 4: Long Term average rainfall (mm): dekad1 July 2019

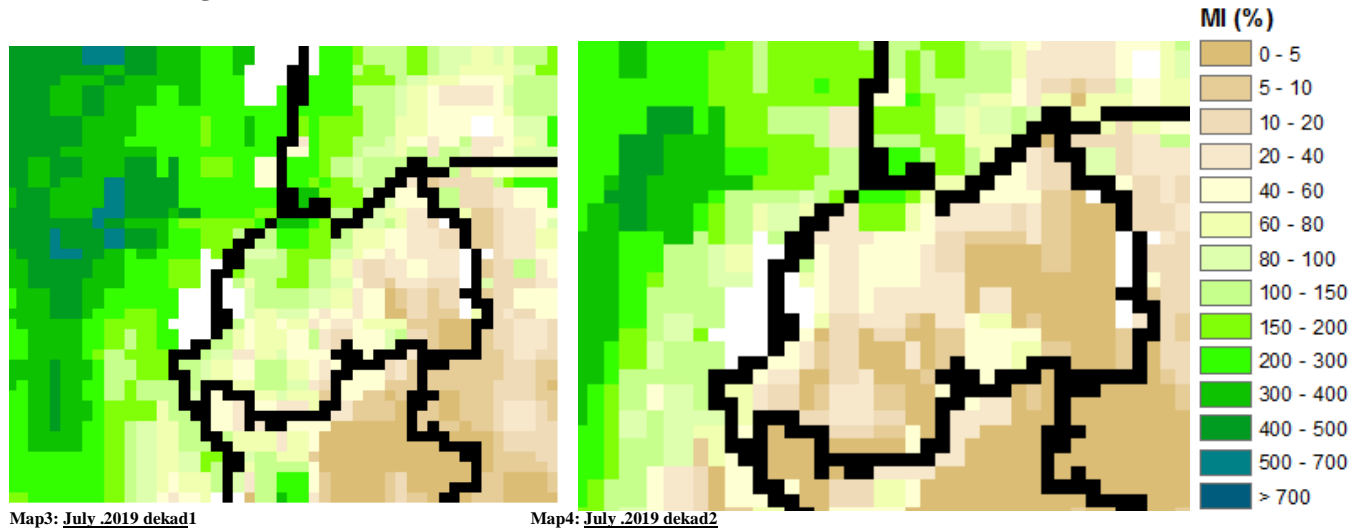
II. Detailed observed rainfall during the dekad2 July_2019

During the dekad2 July 2019; the cumulative rainfall was observed to be above Long Term Mean (LTM) over the Eastern province, North and North-western Province while below LTM rainfall was observed over Kigali city and most parts of Southern province and over South parts of Western province . (see **Map1&2**).

Compare to dekad1 July 2019, rainfall increased and shifted from western to eastern.

III. Agricultural impact

a) Satellite images : Soil Moisture Index (MI)



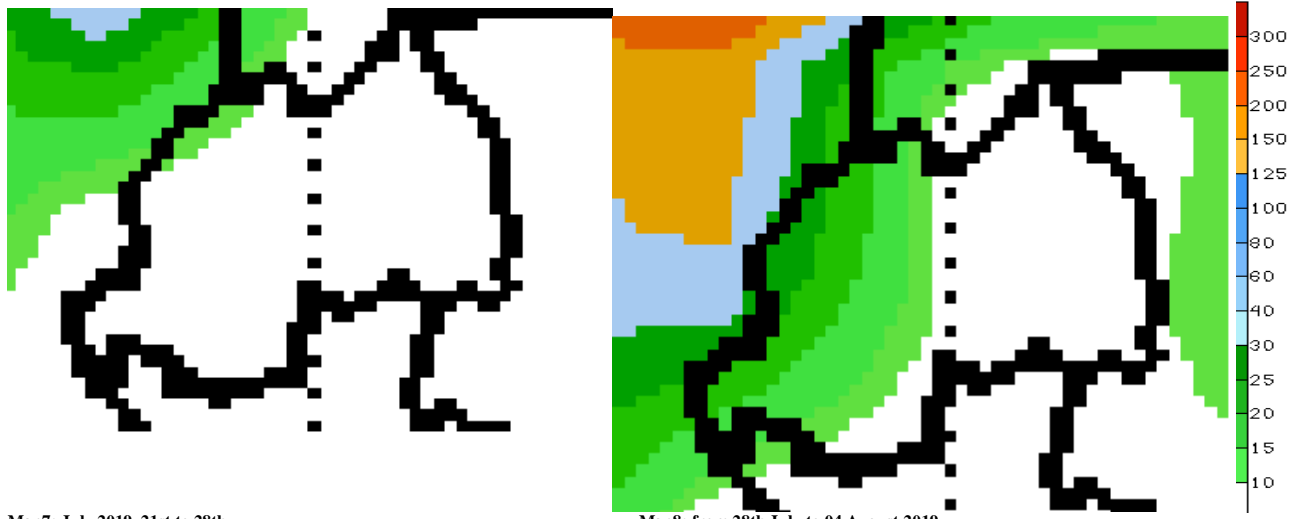
Comparing the dekad1 July 2019 that contained water in the soil over North, West and South, satellite derived moisture index showed dry soil over most parts of Rwanda in dekad2 July 2019 except in Volcanoes areas. (see **Map3&4**).

b. Rainfall forecast for dekad3 July 2019 from 21st to 30th July 2019

The rainfall during the second dekad3 of July 2019; we expect dry conditions in the first days of the third dekad which will later change during dekad to light rains over the West, North and South parts of the country especially in areas near Lake Kivu, Nyungwe and Volcanoes.

- Kigali City: No rainfall expected within coming third dekad of July 2019.
- Eastern Province: No rainfall expected.
- Southern Province: expected to receive rainfall amount less than 10mm within coming dekad.
- Western Province: expected to receive rainfall amount less than 10mm within coming dekad.
- Northern Province: expected to receive rainfall amount less than 10mm within coming dekad.

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



Map7: July 2019, 21st to 28th

Map8: from 28th July to 04 August 2019

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)