



**Highlights:**

- **The cumulative rainfall** for dekad1\_September\_2018 was enhanced over the northwest and suppressed over the whole eastern region in comparison with the Long Term Mean (LTM) rainfall amount;
- The soil moisture content reduced widely as a result of little rains received over most parts of the country;
- The rainfall during dekad2\_September\_2018 is expected to behave like dekad1\_September\_2018

**I. Introduction**

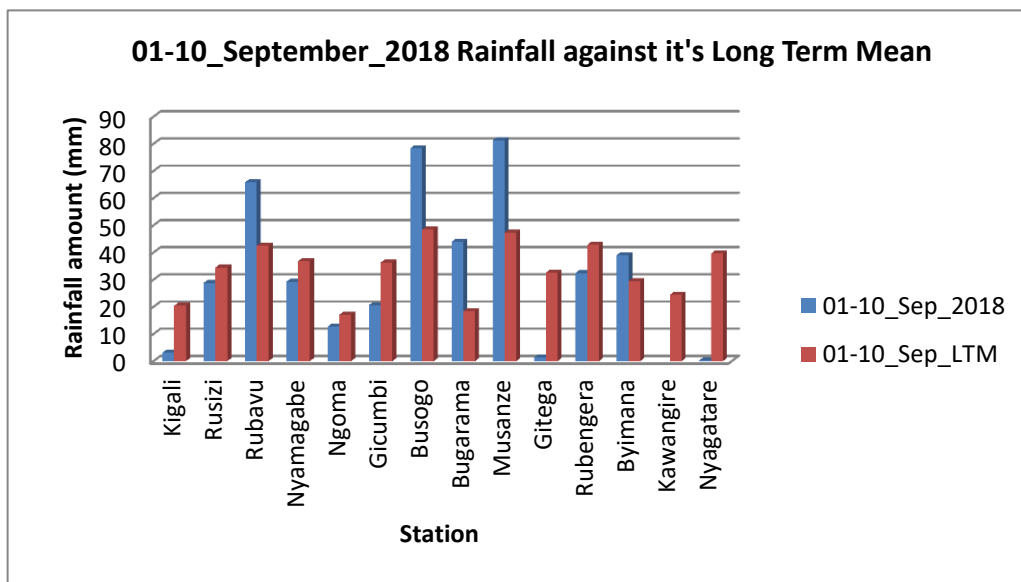
The rainfall during dekad1\_September\_2018 was enhanced over the northwest and suppressed over the whole eastern region in comparison with the Long Term Mean (LTM) rainfall amount but remained as a wet dekad generally

a) The table and histogram below indicates the rainfall recorded during dekad1\_September\_2018 and its LTM:

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

Station	01-10_Sep_2018	01-10_Sep_LTM
Kigali	3.1	20.4
Rusizi (Kamembe)	28.8	34.5
Rubavu (Gisenyi)	65.8	42.4
Nyamagabe (Gikongoro)	29.2	36.8
Ngoma (Kibungo)	12.7	17.1
Gicumbi (Byumba)	20.6	36.3
Busogo	78.3	48.4
Bugarama	43.9	18.4
Musanze (Ruhengeri)	81.3	47.3
Gitega	1.4	32.6
Rubengera	32.4	42.8
Byimana	39.0	29.5
Kawangire		24.4
Nyagatare	0.3	39.6

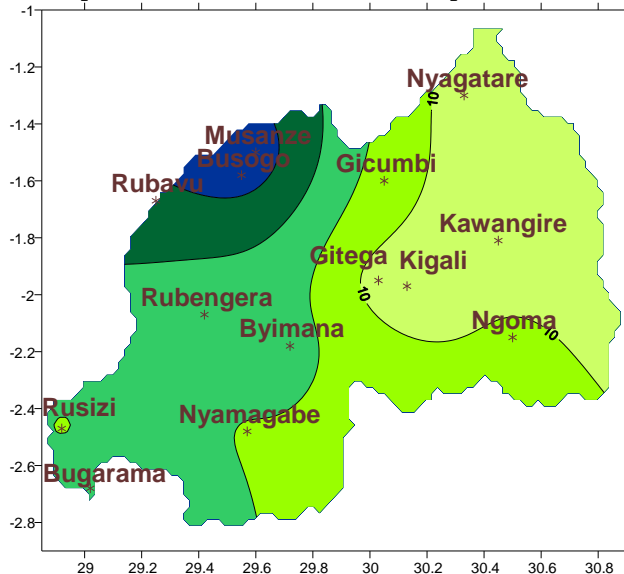
*Table1*



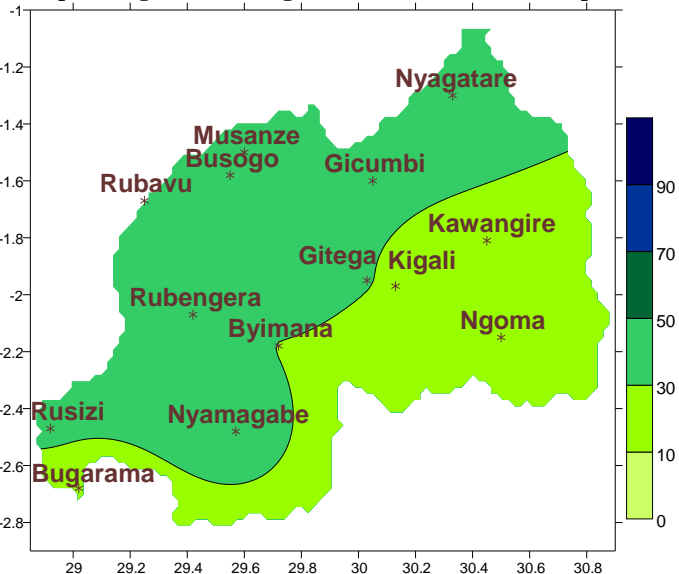
*Plot1*

b) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall recorded during dekad1\_September\_2018 and the cumulative rainfall for the same period  
 The maps “**Map 3 and 4**” show the cumulative rainfall recorded during dekad3\_August\_2018 the cumulative rainfall for the same period

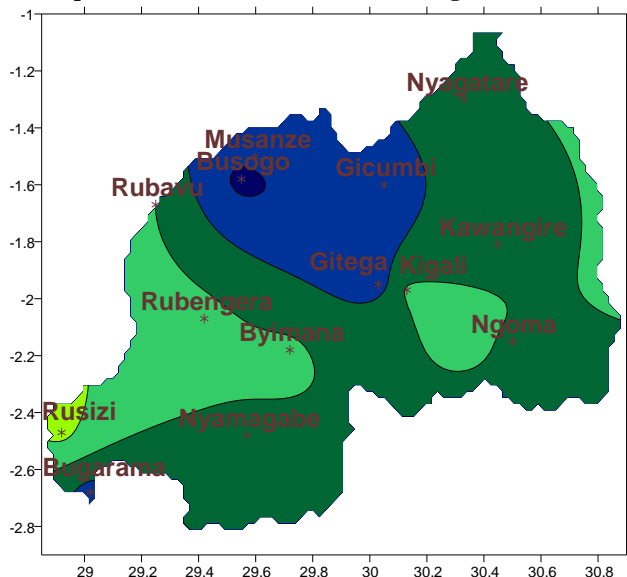
**Map1: Total Rainfall (mm): dekad1\_Sep\_2018**



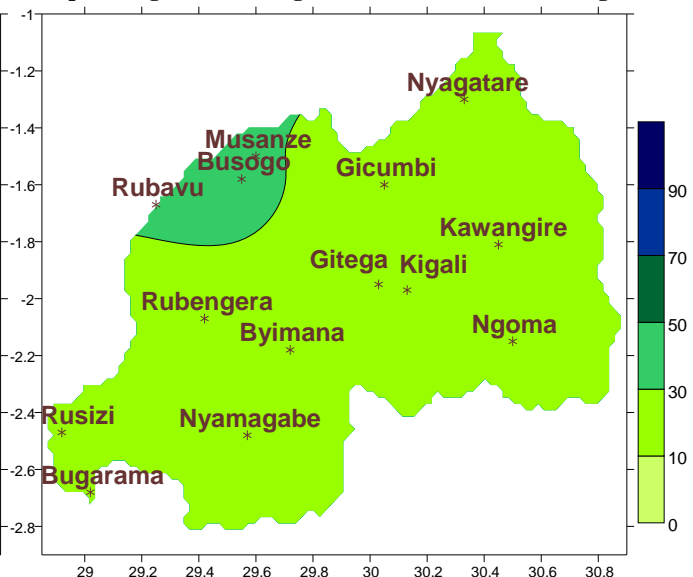
**Map2: Long Term Average Rainfall (mm): dekad1\_Sep\_LTM**



**Map1: Total Rainfall (mm): dekad3\_Aug\_2018**



**Map2: Long Term Average Rainfall (mm): dekad3\_Aug\_LTM**

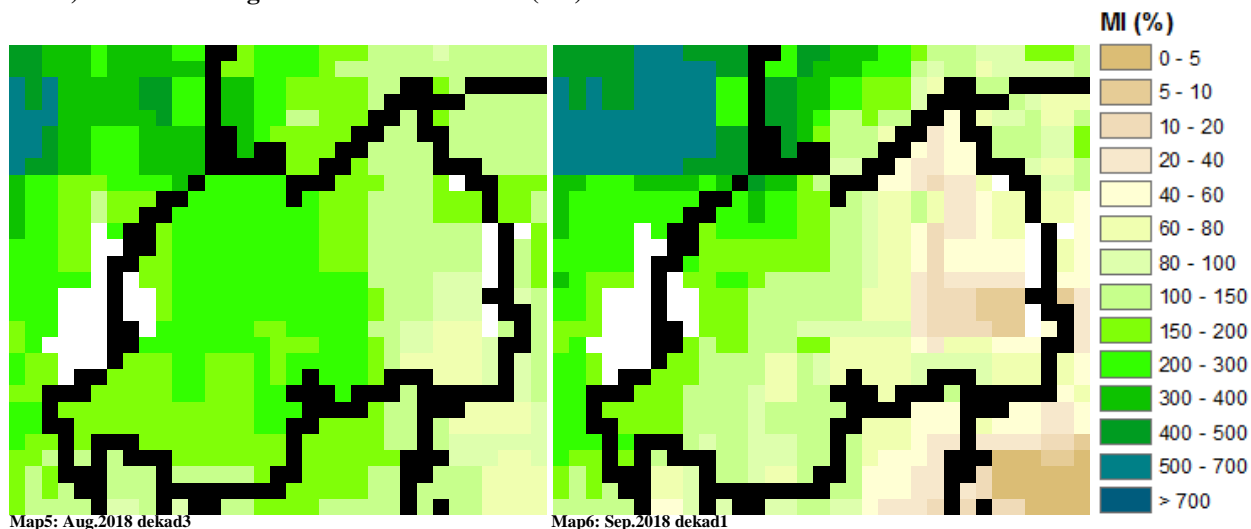


**II. Detailed observed rainfall during the dekad1\_September\_2018**

Cumulative rainfall for dekad1\_September\_2018 was enhanced over the northwest and suppressed over the whole eastern region in comparison with the Long Term Mean (LTM) rainfall amount; elsewhere within the country; we observe a normal situation (see **Map1&2** and **Table1**). During the third dekad3 of August\_2018; the cumulative rainfall amount is in the above normal with the LTM (see **Map3&4**)

### III. Agricultural impact.

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



From the start of dekad3\_August to end of dekad1\_September\_2018; the satellite derived moisture index shows a decrease in soil moisture widely as a result of little rains received over most parts of the country; except the northwest which receive much rain within the two dekad. The state of the soil moisture ensures the soil that is favorable for a variety of crops for the whole country (see **Map 5&6**)

#### b) Rainfall forecast for dekad2 September\_2018

The distribution of rains during dekad2\_September\_2018 is expected to behave like dekad1\_September\_2018:

- Kigali City: little rains (10-40 mm of rainfall; i.e.; within the normal range)
- Eastern Province: less likelihood of rain (0-30 mm of rainfall; i.e.; within the normal range)
- Southern Province: rain frequently (10-70 mm of rainfall; i.e.; within the above range)
- Northern Province: rain throughout the dekad (20-100 mm rainfall; i.e.; within the above range)
- Western Province: rain throughout the dekad (30-100 mm rainfall; i.e.; within the above range)

#### Amount of rain (in mm) expected for the second dekad of September\_2018



**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)