



**Highlights:**

- **The cumulative rainfall for September\_2017** was below the Long Term Mean (LTM) except in the Northern Province ( Gicumbi and Musanze stations) and the Eastern Province (Kawangire station) where the records show an above normal range
- **The soil moisture index** shows a general decrease of soil moisture towards third dekad of September\_2017
- **The rainfall during October \_2017 is expected to remain enhanced over most parts** of the country than what we observed in September\_2017

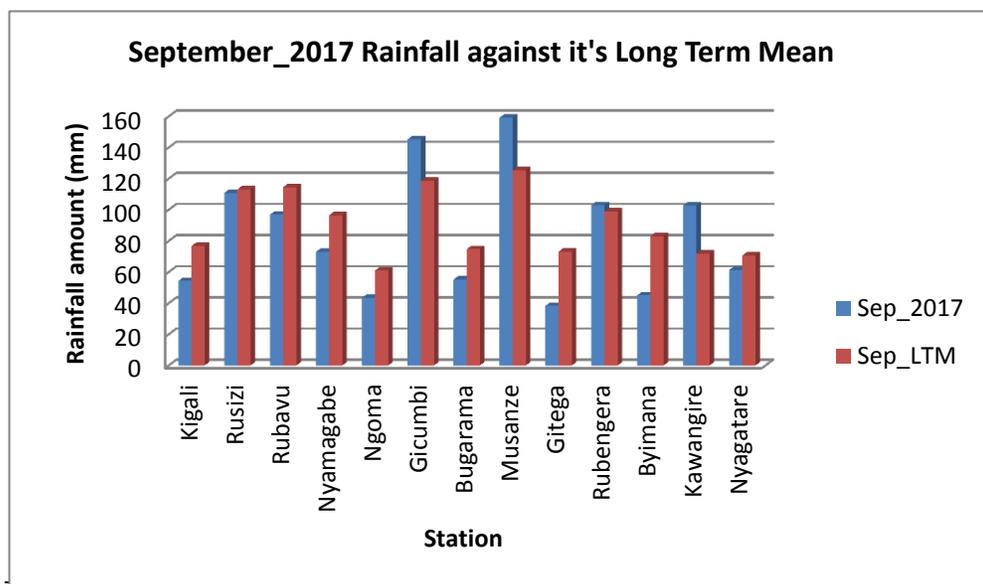
**I. Introduction**

The cumulative rainfall of September\_2017 shows a below LTM situation at representative stations in the central and southern parts, but above LTM were observed over the northern parts of the country.

a) The table and histogram below indicates the rainfall recorded during September\_2017:

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

Station	Sep_2017	Sep_LT M
Kigali	54.4	76.8
Rusizi (Kamembe)	110.9	113.2
Rubavu (Gisenyi)	97.0	114.6
Nyamagabe (Gikongoro)	73.1	96.6
Ngoma (Kibungo)	43.5	61.1
Gicumbi (Byumba)	145.4	118.7
Bugarama	55.3	74.8
Musanze (Ruhengeri)	159.3	125.6
Gitega	38.4	73.2
Rubengera	103.0	99.0
Byimana	45.2	83.1
Kawangire	102.9	71.9
Nyagatare	61.4	70.7

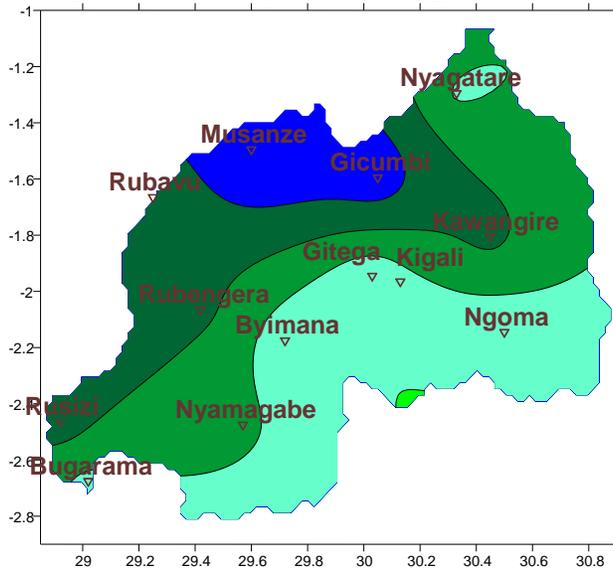


*Plot1*

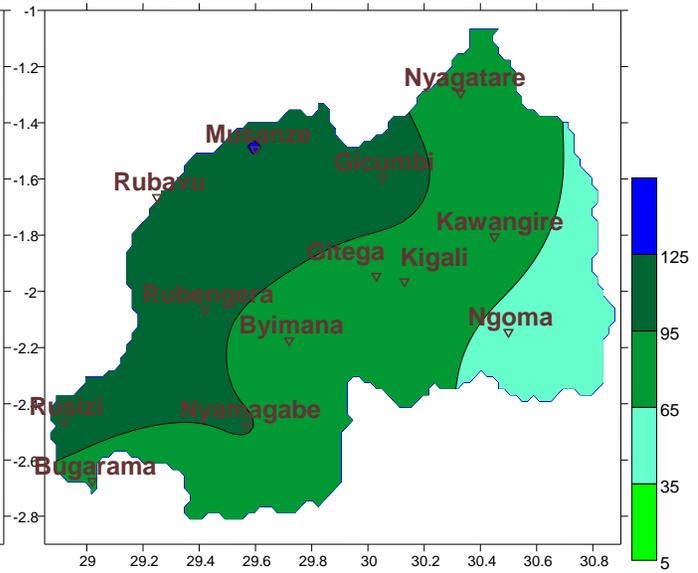
Table1

b) **Rainfall analysis:** The maps “**Map 1 and 2**” below shows the cumulative rainfall recorded during September\_2017 and the LTM cumulative rainfall for the same period. The maps “**map 3 and 4**” show the cumulative rainfall recorded during August\_2017 and the LTM cumulative rainfall for the same period

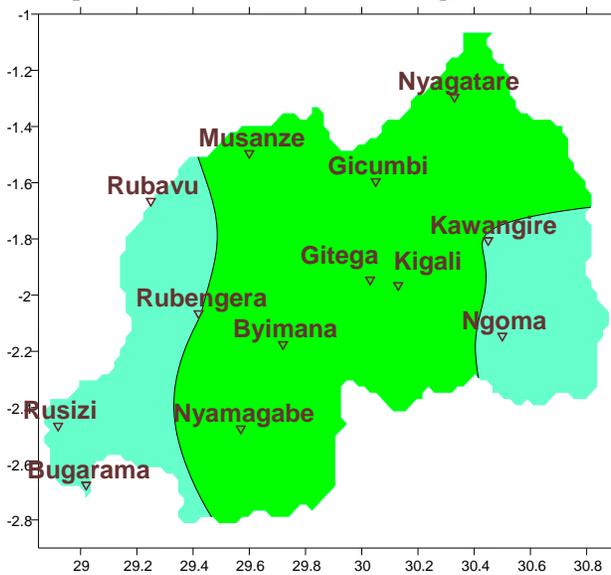
**Map1: Total Rainfall (mm): 1<sup>st</sup>-30<sup>th</sup> Sep\_2017**



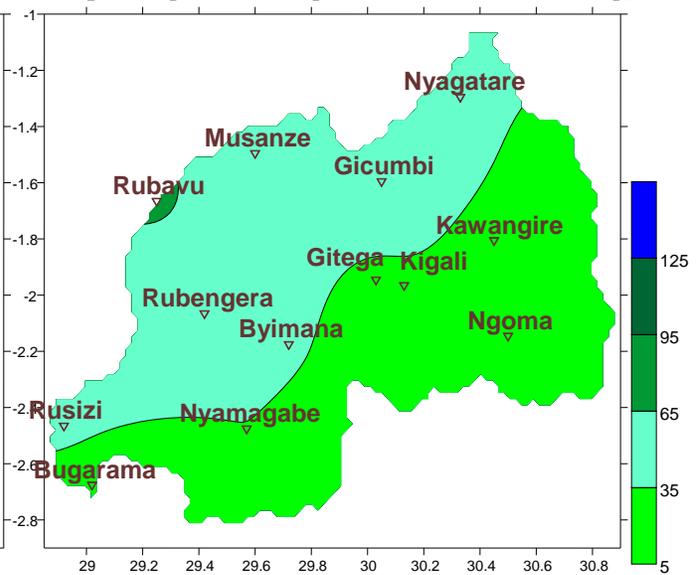
**Map2: Long Term Average Rainfall (mm): 1<sup>st</sup>-30<sup>th</sup> Sep\_LTM**



**Map3: Total Rainfall (mm): 1<sup>st</sup>-31<sup>st</sup> Aug\_2017**



**Map4: Long Term Average Rainfall (mm): 1<sup>st</sup>-31<sup>st</sup> Aug\_LTM**

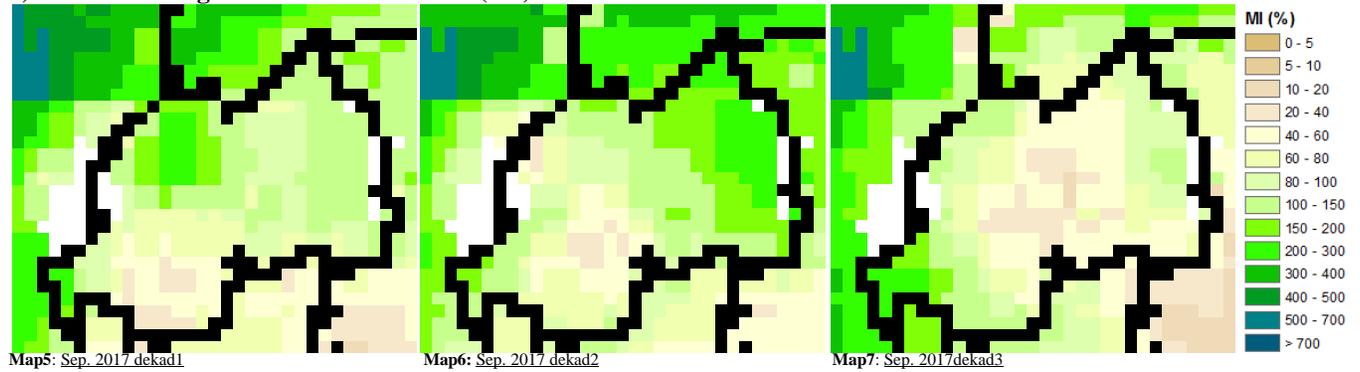


## II. Detailed observed rainfall during the month of September 2017

September\_2017 was generally wetter than usual in north and western parts of the country (see **Map.3&4** and **Table1**) and elsewhere in the country, we observed almost the same patterns like what was experienced during month of August\_2017 but with slightly less rainfall amount of rainfall (see **Map1&2** and **Table1**).

### III. Agricultural impact.

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



The soil moisture index kept on fluctuating because of rainfall which was on and off during the month of September\_2017

This coming month (October 2017), we expect rains and the soil to be moist, but generally will remain normal for the whole country and widely distributed as opposed to the month of September\_2017

Farmers are advised to advantage of prevailing wet conditions across the country.

#### b) Rainfall forecast for October 2017

October 2017, we expect rain to continue moistening the soil throughout the whole month of October, and it is expected to be normally distributed country wide.

**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)**