



**Highlights:**

- **The cumulative rainfall** for dekad1\_November\_2017 was less than Long Term Mean (LTM) in the central parts while the rest of the country records were within the range of LTM.
- The soil moisture index increased considerably due to the widespread of rainfall as opposed to the previous dekad3\_October 2017.
- The rainfall during dekad2 November \_2017 is expected to be enhanced during the first days and a slight decrease towards the end of dekad however the general trend will be within the range of the LTM.

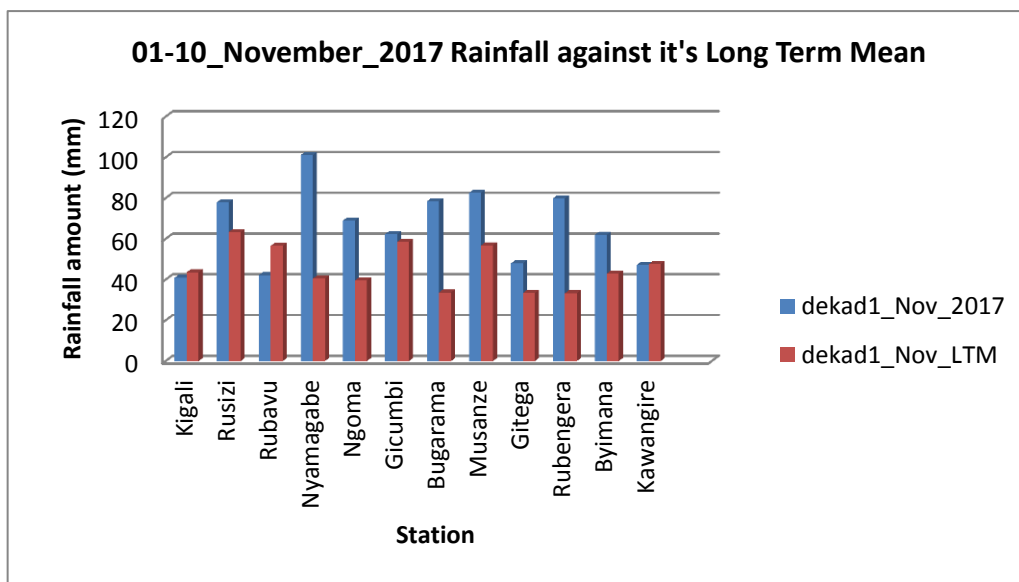
**I. Introduction**

During dekad1\_November\_2017, the country experienced isolated widespread intense rainfall over most parts of the country which was generally above the LTM.

a) The table and histogram below indicates the rainfall recorded during dekad1 November\_2017 and the cumulative LTM for the same period:

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

Station	dekad1_Nov_2017	dekad1_Nov_LTM
Kigali	40.9	43.6
Rusizi (Kamembe)	77.9	63.4
Rubavu (Gisenyi)	42.2	56.6
Nyamagabe (Gikongoro)	101.2	40.5
Ngoma (Kibungo)	69.0	39.6
Gicumbi (Byumba)	62.3	58.5
Bugarama	78.5	33.7
Musanze (Ruhengeri)	82.6	56.8
Gitega	48.0	33.4
Rubengera	79.9	33.3
Byimana	62.0	43.0
Kawangire	47.2	47.6

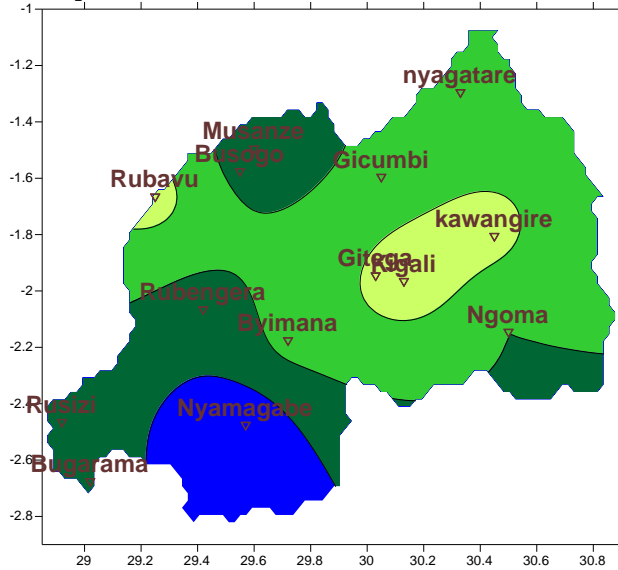


*Plot1*

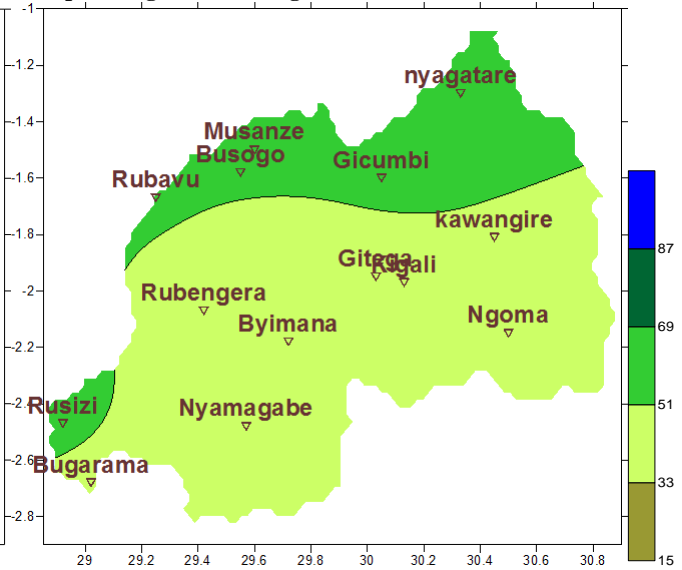
*Table1*

- b) **Rainfall analysis:** The maps “**Map 1 and 2**” shows the cumulative rainfall recorded during dekad1 November\_2017 and the cumulative LTM rainfall for the same period. The maps “**map 3 and 4**” shows the cumulative rainfall recorded during dekad3\_October\_2017 and the cumulative LTM rainfall for the same period.

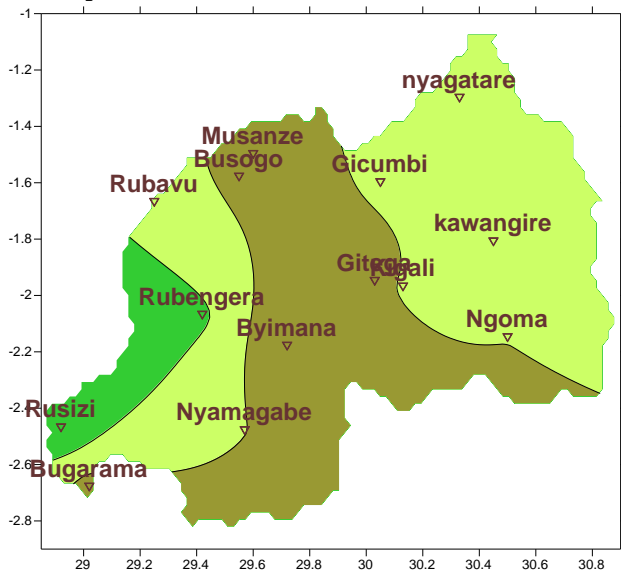
**Map1: Total Rainfall (mm): dekad1\_Nov\_2017**



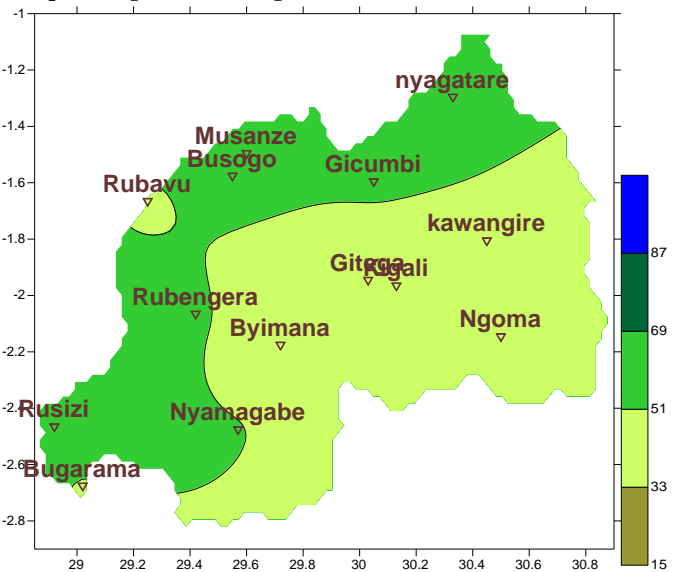
**Map2: Long Term Average Rainfall (mm): dekad1\_Nov\_LTM**



**Map3: Total Rainfall (mm): dekad3\_Oct\_2017**



**Map4: Long Term Average Rainfall (mm): dekad3\_Oct\_LTM**

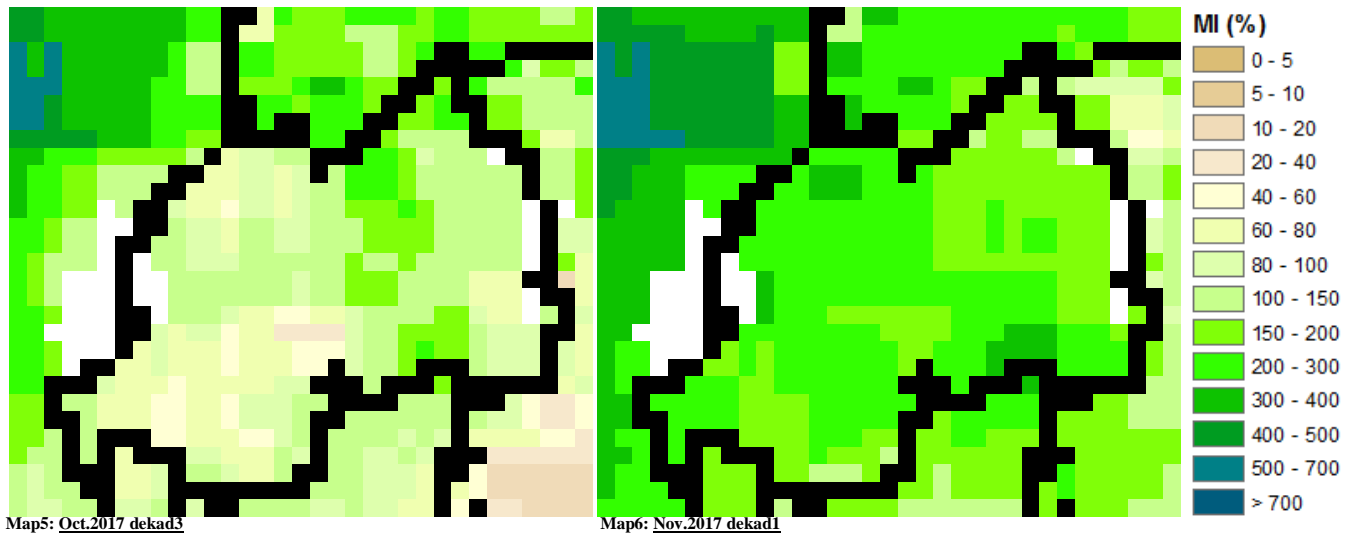


## II. Detailed observed rainfall during the dekad1\_November\_2017

Cumulative rainfall for dekad1\_November\_2017 indicates that the rainfall was generally high over most parts of the country where most stations recorded rainfall above 33mm. The northern and western parts of the country recorded higher values (above 50mm) of rainfall. The dekad3\_October\_2017 rainfall records were generally lower than dekad1\_November\_2017 (see **Map1&2** and **Map 3&4**).

### III. Agricultural impact.

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



During dekad3 of October\_2017 to dekad1 of November\_2017, the satellite derived moisture index show an increase in soil moisture content due to rainfall widespread of rainfall during the 1<sup>st</sup> dekad of November\_2017 (see **Map 5&6**)

#### Rainfall forecast for dekad2 of November\_2017

The distribution of rains during dekad2 of November\_2017 is expected to enhance especially in the northern and western parts of the country.

**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)