

**Highlights:** 

- **The cumulative rainfall** for dekad1\_December\_2017 showed a wide spread decrease over most parts of the country except Rusizi where recorded rainfall was above the Long Term Mean (LTM).
- The soil moisture index depleted across many parts of the country.
- The rainfall during dekad2 December \_2017 is expected to slightly increase over most parts of the country compared to the previous dekad.

## I. Introduction

Station

(Kamembe)

Nyamagabe

(Gikongoro)

Rubavu

Ngoma

(Kibungo)

Gicumbi

(Byumba)

Bugarama

(Ruhengeri)

Rubengera

Byimana

Kawangire

Nyagatare

Musanze

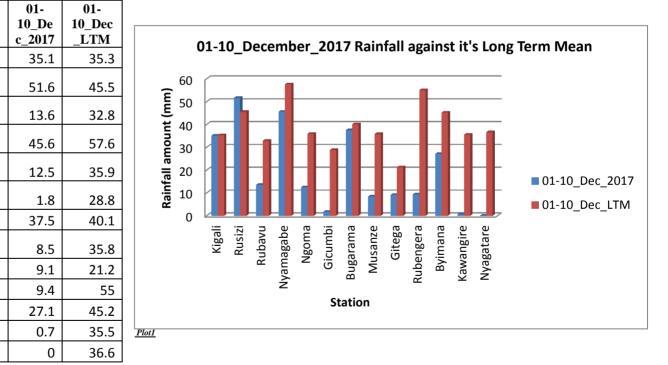
Gitega

(Gisenyi)

Kigali Rusizi

During dekad1\_Sptember\_2017, most parts of the country recorded rainfall which was less than the Long Term Mean (LTM) except Rusizi where records were slightly higher than the LTM; this is because of Inter Tropical Convergence Zone (ITCZ) which is source of rainfall moisture is shifting towards the south of the equatorial region.

a) The table and histogram below indicates the rainfall recorded during dekad1 December\_2017 and the cumulative Long Term Mean for the same period.

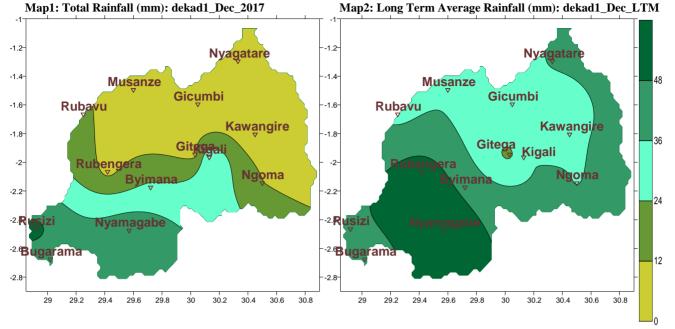


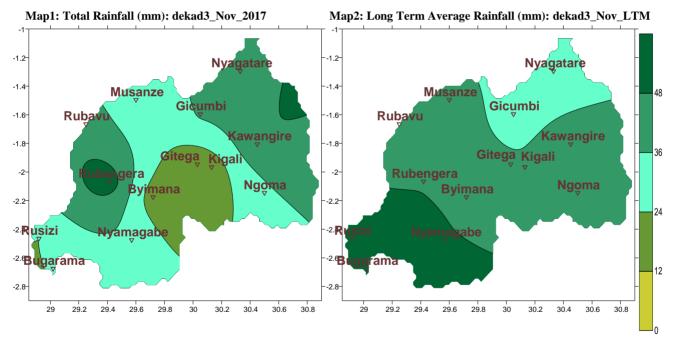
## Cumulative rainfall (in mm) recorded at different stations

<u>Table1</u>

b) **Rainfall analysis:** The maps "**Map 1 and 2**" below show the cumulative rainfall recorded during dekad1 December\_2017 and the cumulative rainfall for the same period. Generally the total rainfall distribution was less than the Long Term Mean (LTM).

The maps "**map 3 and 4**" show the cumulative rainfall recorded during dekad3\_November\_2017 and the cumulative rainfall for the same period. The rainfall for dekad3 of November 2017 was also less than the LTM.



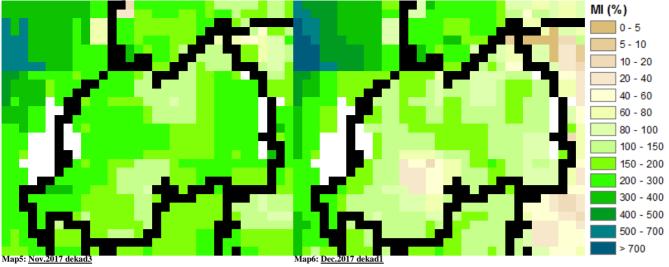


II. Detailed observed rainfall during the dekad1\_December\_2017

During dekad1\_December\_2017, the rainfall recorded was generally below the Long Term Mean and this was evident in the last two consecutive dekads across many parts of the country (see **Map1&2** and **Table1**) and dekad3\_November\_2017 (see **Map3&4**)

## III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



During dekad3 of November\_2017 to dekad1 of December\_2017, the satellite derived moisture index show a decreased soil moisture due to the suppressed rainfall (see **Map 5&6**)

## Rainfall forecast for dekad2 of December\_2017

The rainfall during dekad2 December \_2017 is expected to be slightly more over most parts of the country compared to previous dekad.

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)