



Highlights:

- **The overall cumulative rainfall** for dekad2_September_2018; we observe that the rain were little in the whole Eastern Province and the south-eastern part of the Southern Province as compared to what happened elsewhere within the country
- The soil moisture content remained high over the northwest and central parts of the country resulting from the rains received during these past two dekads of September_2018
- The rainfall during third and last dekad of September_2018; is expected to be widely spread over the country and the rains to be higher than what has been observed during the first dekad of this month

I. Introduction

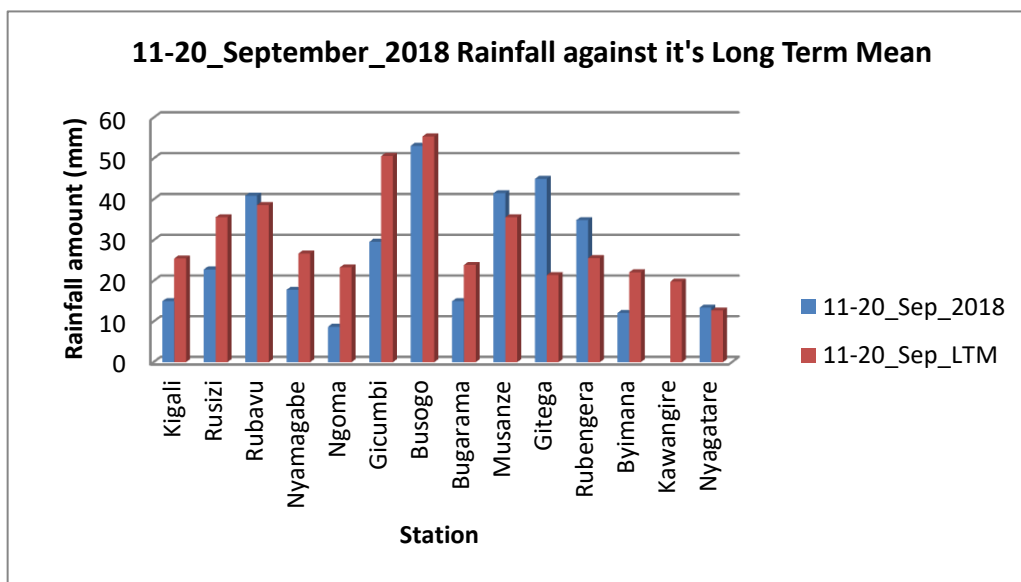
The dekad2_September_2018; was observed to have little rains over the whole Eastern Province and the south-eastern part of the Southern Province as compared to what happened elsewhere within the country

a) The table and histogram below indicates the rainfall recorded during dekad2 September_2018:

Cumulative rainfall (in mm) recorded at different stations

Station	11-20_Sep_2018	11-20_Sep_LTM
Kigali	15.0	25.5
Rusizi (Kamembe)	22.8	35.6
Rubavu (Gisenyi)	40.9	38.6
Nyamagabe (Gikongoro)	17.8	26.7
Ngoma (Kibungo)	8.7	23.3
Gicumbi (Byumba)	29.6	50.6
Busogo	53.1	55.4
Bugarama	15.0	23.9
Musanze (Ruhengeri)	41.5	35.6
Gitega	45.0	21.4
Rubengera	34.9	25.6
Byimana	12.1	22.1
Kawangire		19.8
Nyagatare	13.4	12.7

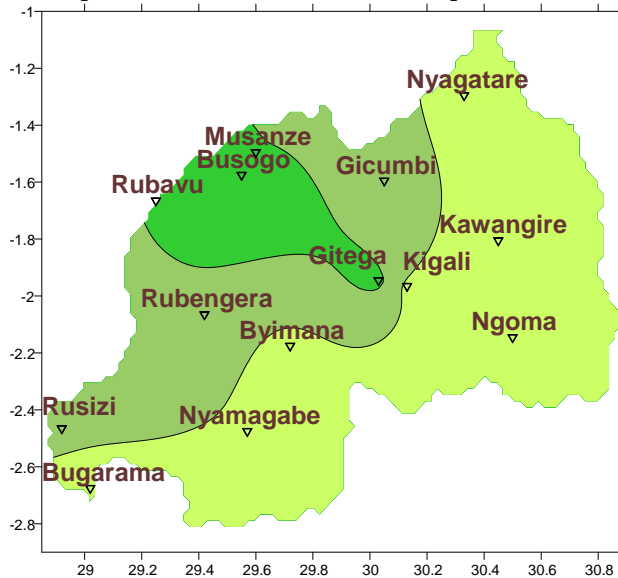
Table1



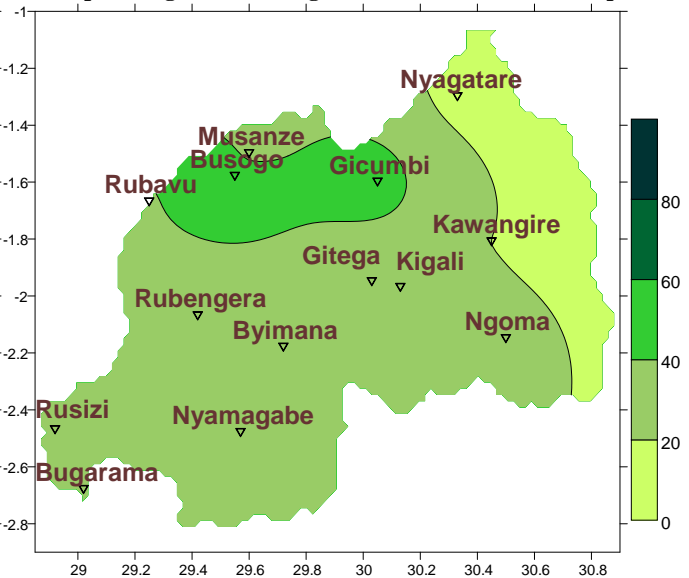
Plot1

- b) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall recorded during dekad2 September_2018 and the cumulative rainfall for the same period
 The maps “**map 3 and 4**” show the cumulative rainfall recorded during dekad1 September_2018 and the cumulative rainfall for the same period

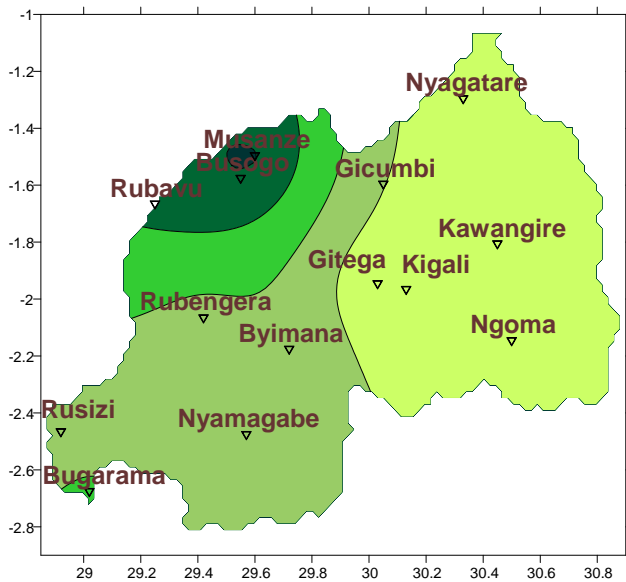
Map1: Total Rainfall (mm): dekad2_Sep_2018



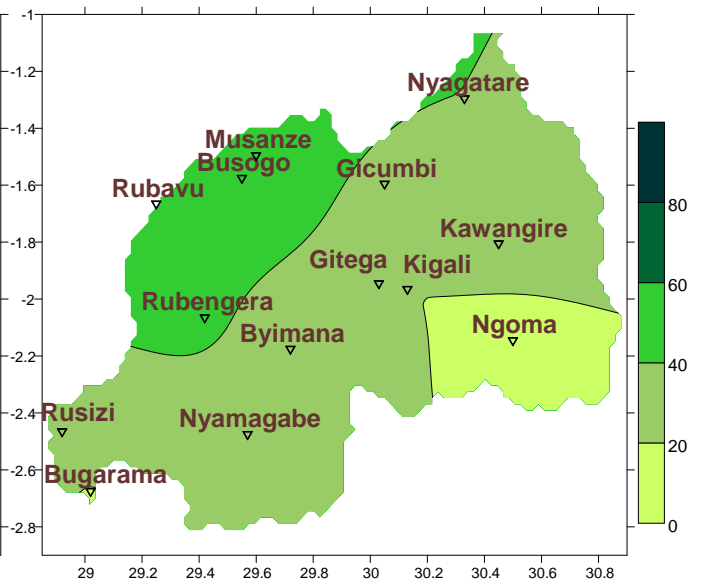
Map2: Long Term Average Rainfall (mm): dekad2_Sep_LTM



Map1: Total Rainfall (mm): dekad1_Sep_2018



Map2: Long Term Average Rainfall (mm): dekad1_Sep_LTM

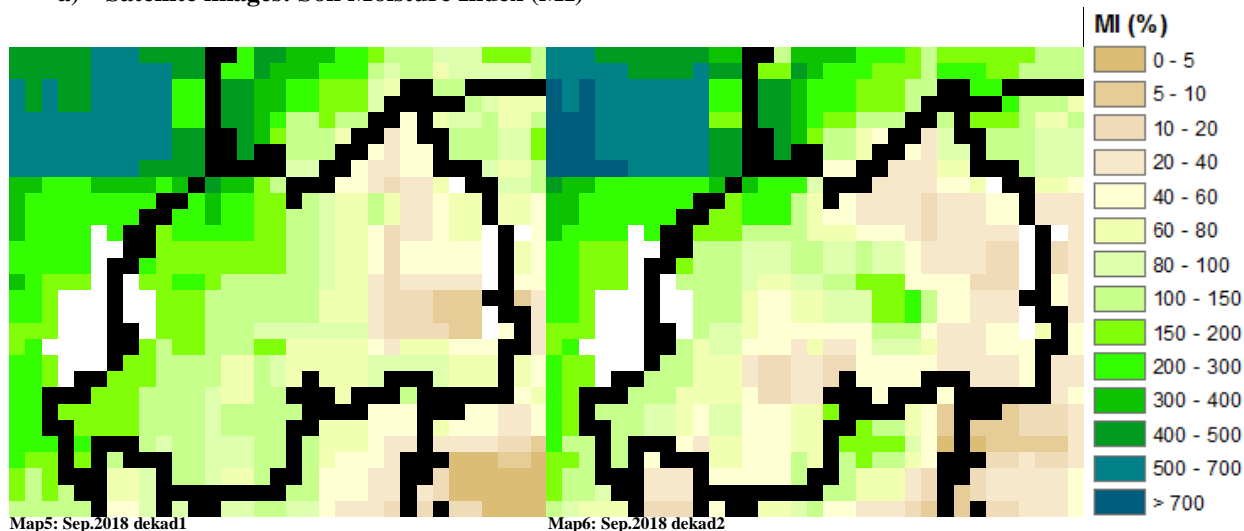


II. Detailed observed rainfall during the dekad2_September_2018

In comparison with the LTM (Long-term Mean); the rains were observed to be normal to below at most stations of the country; in addition; the cumulative rainfall for dekad2_September_2018 shows that the whole Eastern Province and the south-eastern part of the Southern Province received little rains as compared to what happened elsewhere within the country (see **Map1&2** and **Table1**); we also observe the same pattern but with high amount of rain during dekad1_September_2018 (see **Map3&4**)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



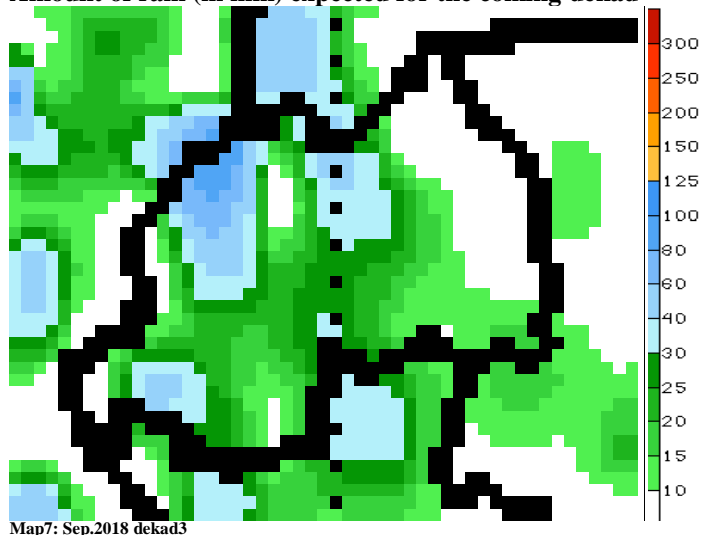
Observing the dekad1 to dekad2_September_2018 satellite derived moisture index; shows high values over the northwest and central parts of the country resulting from the rains received during these past two dekads of September_2018 (see Map 5&6); also the images shows good values (above 80) favorable for quite variety of crops

b) Rainfall forecast for dekad3 September_2018

The distribution of rains during dekad3_September_2018; is expected to be widely spread over the country and the rains to be higher than what has been observed during the first dekad of this month

- Northern and Western: high rainfall values ranging between 60 and 120mm of rain;
- Kigali City and Southern Province: we expect to have between 30 to 80mm of rain; and
- The Eastern Province to have little rains ranging between 10 and 30mm of rain

Amount of rain (in mm) expected for the coming 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)