



**Highlights:**

- **The rainfall pattern** for the dekad2\_August\_2018 was completely dry and was below normal rainfall conditions at all representative stations. Temperature increased and no rainfall recorded across the country.
- **Satellite derived soil moisture index keeps on showing** low values of soil moisture because the dry weather conditions we're having all over the country
- The weather conditions during dekad3\_July\_2018 are expected to **be wet with increase of rains** and decrease of maximum temperature during many days of the dekad3.

**I. Introduction**

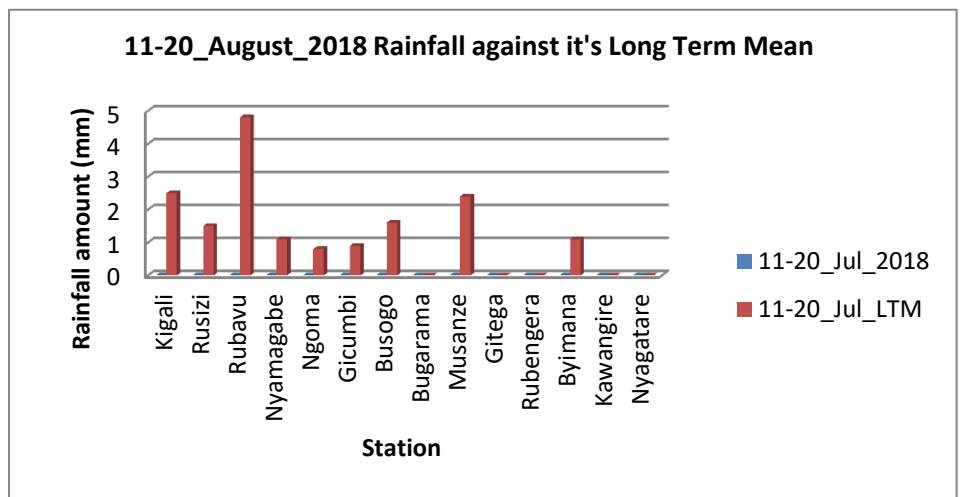
The weather pattern for dekad2\_August\_2018 was completely dry at all representative stations. There is no rainfall recorded across the country which is below normal rainfall conditions during the dekad2 of August and high values of maximum temperatures were recorded.

a) The table and histogram below indicates the rainfall recorded during dekad2\_August\_2018 compared to long term average of the same dekad:

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

Station	11-20_Aug_2018	11-20_Aug_LTM
Kigali	NT	2.5
Rusizi (Kamembe)	NT	1.5
Rubavu (Gisenyi)	NT	4.8
Nyamagabe (Gikongoro)	NT	1.1
Ngoma (Kibungo)	NT	0.8
Gicumbi (Byumba)	NT	0.9
Busogo	NT	1.6
Bugarama	NT	0.0
Musanze (Ruhengeri)	NT	2.4
Gitega	NT	0.0
Rubengera	NT	0.0
Byimana	NT	1.1
Kawangire	NT	0.0
Nyagatare	0.1	0.0

*Table1*

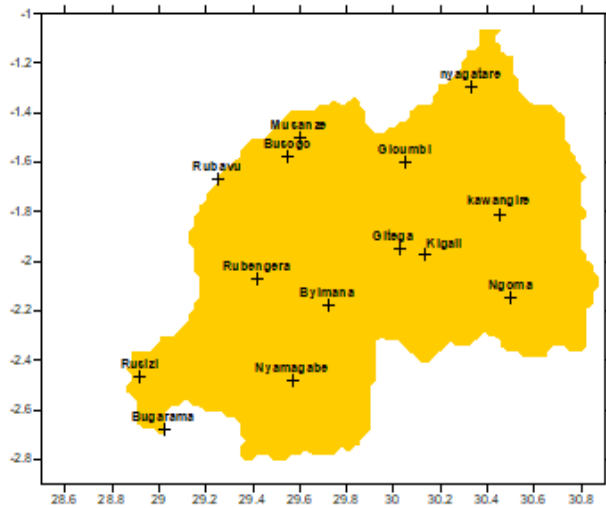


*Plot1*

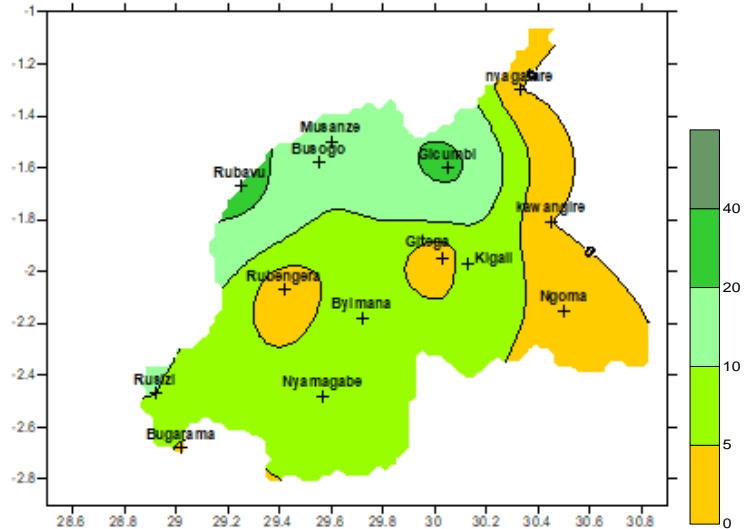
**b) Rainfall analysis:**

The maps (**map 1 and 2**) below show the cumulative rainfall recorded during dekad2\_August\_2018 and the long term average cumulative rainfall for the same period. The maps (**map 3 and 4**) show the cumulative rainfall recorded during deka1\_August\_2018 and the long term average cumulative rainfall for the same period. Only the extreme eastern province recorded dry and normal rainfall of the dekad while the remaining part of the country recorded below normal rainfall. Compared to previous dekad, the eastern province recorded the same range of rainfall (around 0 mm) while other provinces recorded decreased rainfall compare to dekad1 of July 2018.

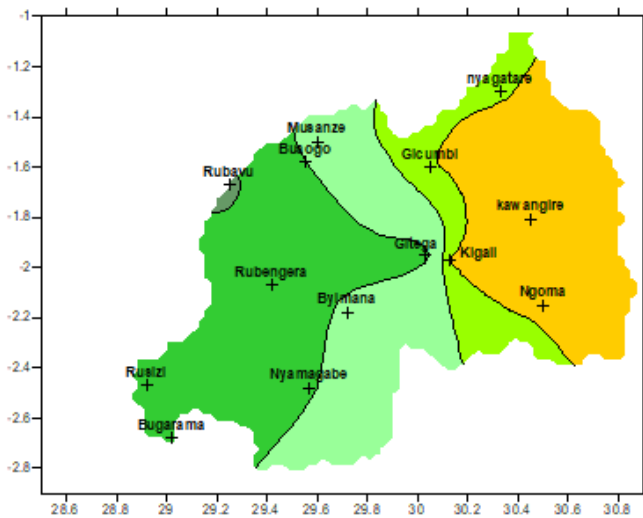
**Map1: Total Rainfall (mm): dekad2\_August\_2018**



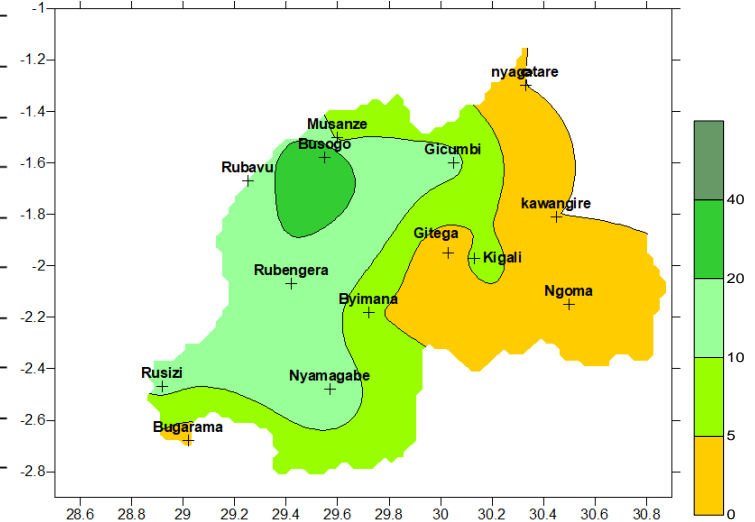
**Map2: Long Term Average Rainfall (mm): dekad2\_August\_LTM**



**Map3: Total Rainfall (mm): dekad1\_August\_2018**

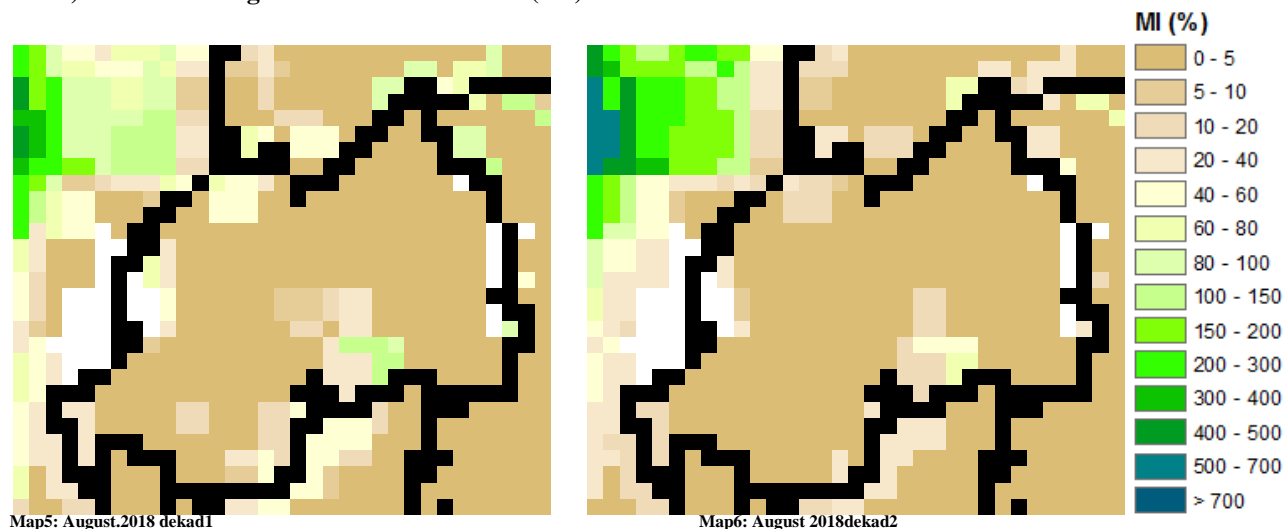


**Map4: Long Term Average Rainfall (mm): dekad1\_August\_LTM**



## II. Agricultural impact

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



During dekad1\_Jul\_2018 and dekad2\_July\_2018 the satellite derived moisture index was marked by dry soil with very low values of soil moisture across the (see **Map5&6**). As rainfall is expected in all parts of the country, the soil moisture is also supposed to increase compared to the second dekad. Farmers are advised to maximize the preparation of their fields and get ready for the growing season which onset will be communicated in the first dekad of September 2018. All people in general are advised to maintain water from rain to avoid the soil erosion and other risks from forecasted rain in below section.

### b) Rainfall forecast for dekad3\_August\_2018

We expect wet weather conditions starting 23<sup>rd</sup> August 2018 toward the end of the Month. The cumulative rainfall expected will be above normal condition of the dekad and will mark the rains onset in Northern and Western parts of the country.

- (1) **Eastern Province:** Wet conditions with light to moderate rains are expected in most parts of the Province from 23<sup>rd</sup> August to 25<sup>th</sup> and between 27<sup>th</sup> and 29<sup>th</sup> with a reduction of wet conditions on 26<sup>th</sup> and the end of the month.
- (2) **Southern Province:** Light to moderate rain is also expected in the Southern Province from 23<sup>rd</sup> to 26<sup>th</sup> with a decrease of rain conditions on 27<sup>th</sup> which will pick again from 29<sup>th</sup> to 30<sup>th</sup>.
- (3) **Western Province:** moderate rain is expected in the Western Province from 23<sup>rd</sup> to 26<sup>th</sup> and will be enhanced on 23<sup>rd</sup> compared to other rain days, and a decrease of rain conditions are expected on 27<sup>th</sup> which will pick again from 29<sup>th</sup> to 30<sup>th</sup>.
- (4) **Northern Province:** moderate rain is expected in the Northern Province from across the dekad with enhanced rains on 23<sup>rd</sup> and 29<sup>th</sup> August compared to other rain days, and a decrease of rain conditions are expected on the last day of the dekad.
- (5) **Kigali city:** Light to moderate rain is expected in Kigali from 23<sup>rd</sup> to 26<sup>th</sup> with a decrease of rain conditions on 27<sup>th</sup> which will pick again from 29<sup>th</sup> to 30<sup>th</sup>.

**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 Rwanda Meteorology Agency (Meteo Rwanda)  
(!) Seasonal forecast including rain onset will be issued next Dekad