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MINISTRY OF ENVIRONMENT

Climatological Bulletin N°28/2018:	October dekad1: 1 <sup>st</sup> –10 <sup>th</sup> October 2018
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## **Highlights:**

- **The cumulative rainfall** for dekad1\_October\_2018 the rainfall amount reduced at almost all stations except what was observed at Rubengera station;
- During dekad1\_October\_2018; the soil moisture index shows a considerably increase country wide result of the recent rains as opposed to the dekad that preceded this (dekad3\_September\_2018);
- The weather pattern during dekad2\_October\_2018 is expected to mainly wet in the first dates and less wet towards its end

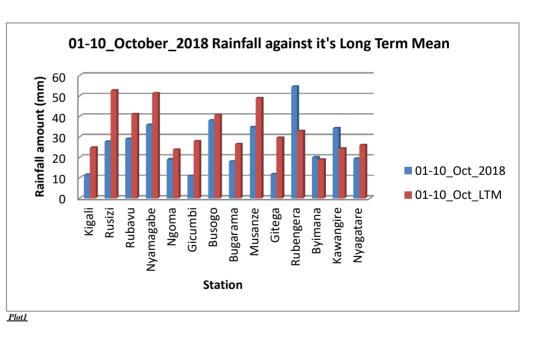
### I. Introduction

The rainfall during dekad1\_October\_2018 the rainfall amount reduced at almost all stations except what was observed at Rubengera station in the Western Province

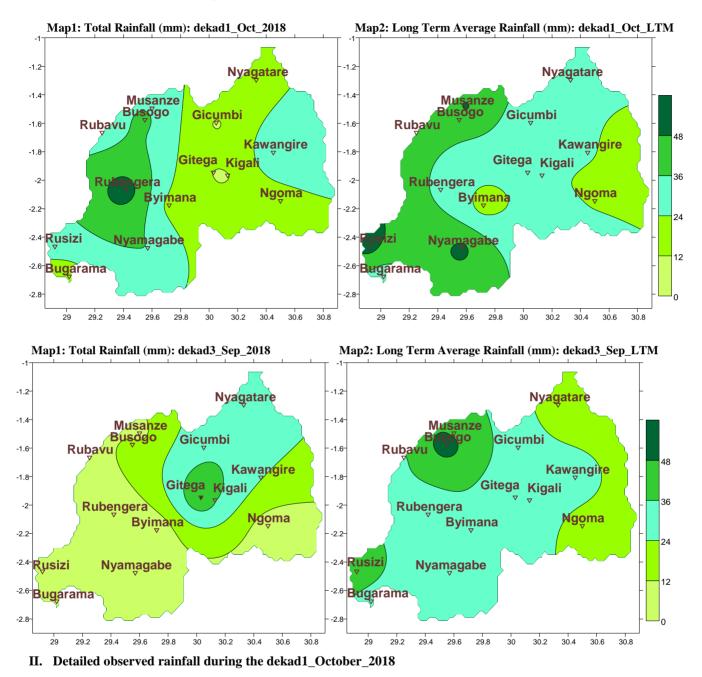
a) The table and histogram below indicates the rainfall recorded during dekad1\_October\_2018 and its LTM:

# Cumulative rainfall (in mm) recorded at different stations

	01-	01-
	10_Oc	10_Oct
Station	t_2018	_LTM
Kigali	11.5	24.7
Rusizi (Kamembe)	27.7	52.6
(Kallellibe) Rubavu	27.7	52.0
(Gisenyi)	29.1	41.1
Nyamagabe (Gikongoro)	35.9	51.3
Ngoma (Kibungo)	19.0	23.7
Gicumbi (Byumba)	10.9	27.9
Busogo	38.0	40.7
Bugarama	18.0	26.5
Musanze (Ruhengeri)	34.8	48.9
Gitega	11.8	29.6
Rubengera	54.5	32.8
Byimana	20.0	18.9
Kawangire	34.2	24.3
Nyagatare	19.4	26.0



**b)** Rainfall analysis: The maps "Map 1 and 2" below show the cumulative rainfall recorded during dekad1\_October\_2018 and the cumulative rainfall for the same period
The maps "Map 3 and 4" show the cumulative rainfall recorded during dekad3\_September\_2018 the cumulative rainfall for the same period

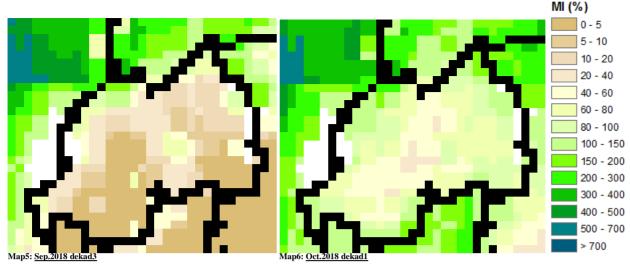


Cumulative rainfall dekad1\_October\_2018 the rainfall amount reduced at almost all stations except what was observed at Rubengera station in the Western Province in comparison with the Long Term Mean (LTM) of rainfall amount (see **Map1&2** and **Table1**). During the third of September\_2018; the cumulative rainfall amount shows high values over the central towards the northeast and less

elsewhere within the country (see Map3&4)

## III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



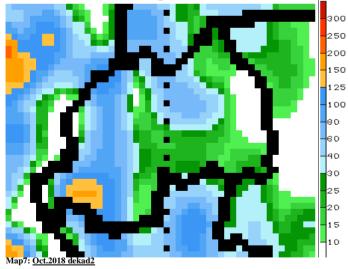
From the start of dekad3\_September to end of dekad1\_October\_2018; the satellite derived moisture index shows an increase in soil moisture widely as a result of the recent rains received over most parts of the country (see **Map 5&6**)

#### b) Rainfall forecast for dekad2 October\_2018

The distribution of rains during dekad2\_October\_2018 is expected to be mainly wet in the first dates and less wet towards its end:

- Kigali City: moderate rains (30-80 mm of rainfall; i.e.; within the normal range)
- Eastern Province: less likelihood of rain (0-40 mm of rainfall; i.e.; normal to below the normal range)
- Southern Province: little to moderate rains (10-80 mm of rainfall; i.e.; within normal range to below)
- Northern Province: moderate rains (30-80 mm rainfall; i.e.; within the normal range)
- Western Province: between 30-150 mm rainfall; i.e.; within the above range over the south and normal elsewhere

#### Amount of rain (in mm) expected for the second dekad of October\_2018



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)