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**SEASONAL FORECAST FOR NOVEMBER, DECEMBER 2019 TO JANUARY 2020(NDJ), N°55**

November, December 2019 to January 2020 (NDJ) constitutes part of important rainfall season for the country.

The National climate outlook for the November, December 2019 to January 2020 season indicates that northern and western parts of the country are likely to experience slight enhanced rainfall (above average) which is more associated with the topographic nature of the area. The Key factors that are expected to influence the rainfall pattern of the region during NDJ season include strong positive Indian Ocean Dipole (IOD) anomalies which is currently in the Indian Ocean and is expected to remain positive coupled with neutral El Nino Southern Oscillation Index (ENSO).

The Rwanda Meteorology Agency used historical rainfall and temperature data for a period more than 30 years from different stations across the country, sea surface temperatures from global oceans (Indian, Pacific and Atlantic Ocean) and products from World Meteorological Organisation’s Global Producing Centres (WMO-GPCs) which include: Met Office, the International Research Institute for Climate and Society (IRI), African Centre of Meteorological Applications (ACMAD), and the Climate prediction and Application Centre of Greater Horn of Africa (ICPAC).

The merged forecast is generated from both Statistical and Dynamical models for each climatological zone within the country and it is indicated in the map below.

**Rainfall between 100-200 mm**

The Eastern Province (southern part of Bugesera, Ngoma Kayonza and Kirehe) and parts of Southern Province (Nyanza and Gisagara) is expected to experience wide spread of rainfall.

### **Rainfall between 200-300 mm**

The Southern Province (Huye, Nyamagabe, Kamonyi, Ruhango and Muhanga), Kigali City (Nyarugenge, Kicukiro and Gasabo) and Eastern Province (Nyagatare, Gatsibo, Rwamagana, large part of Kayonza and Ngoma) are expected to receive rainfall in the above-mentioned range.

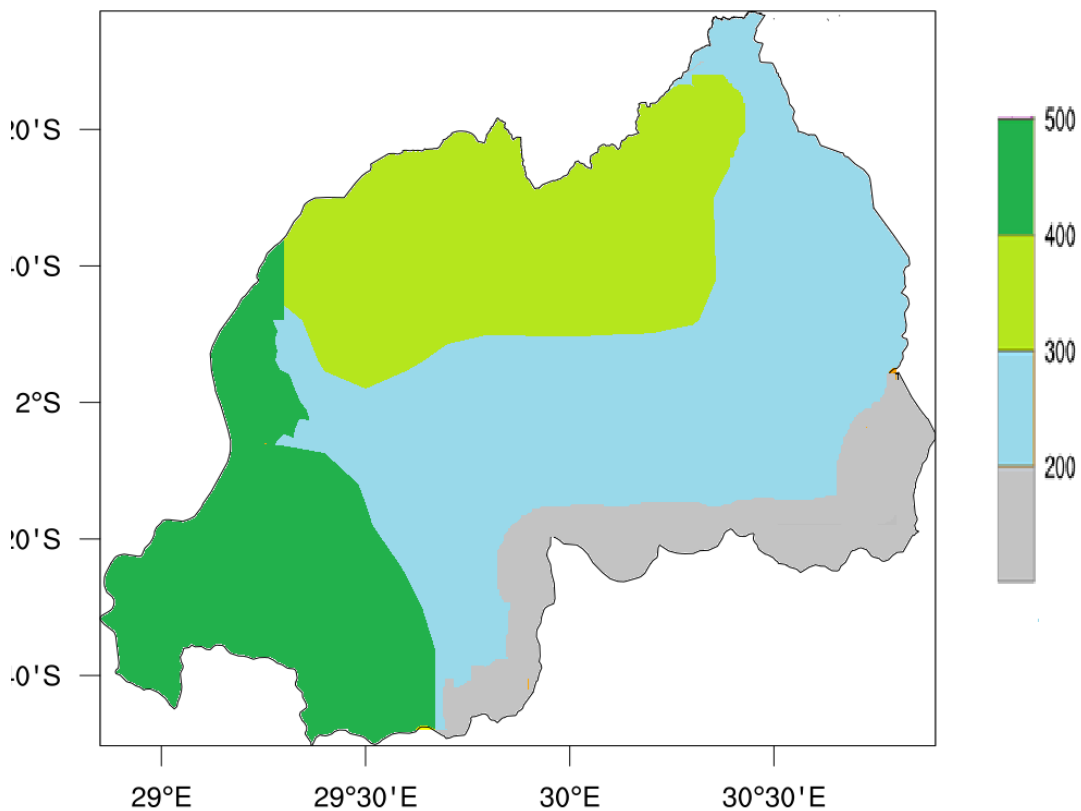
### **Rainfall between 300-400 mm**

The Northern Province (Musanze, Burera, Gicumbi, Gakenke and Rulindo) and Western Province (Rubavu, Nyabihu and Ngororero) rainfall is expected to be slightly enhanced.

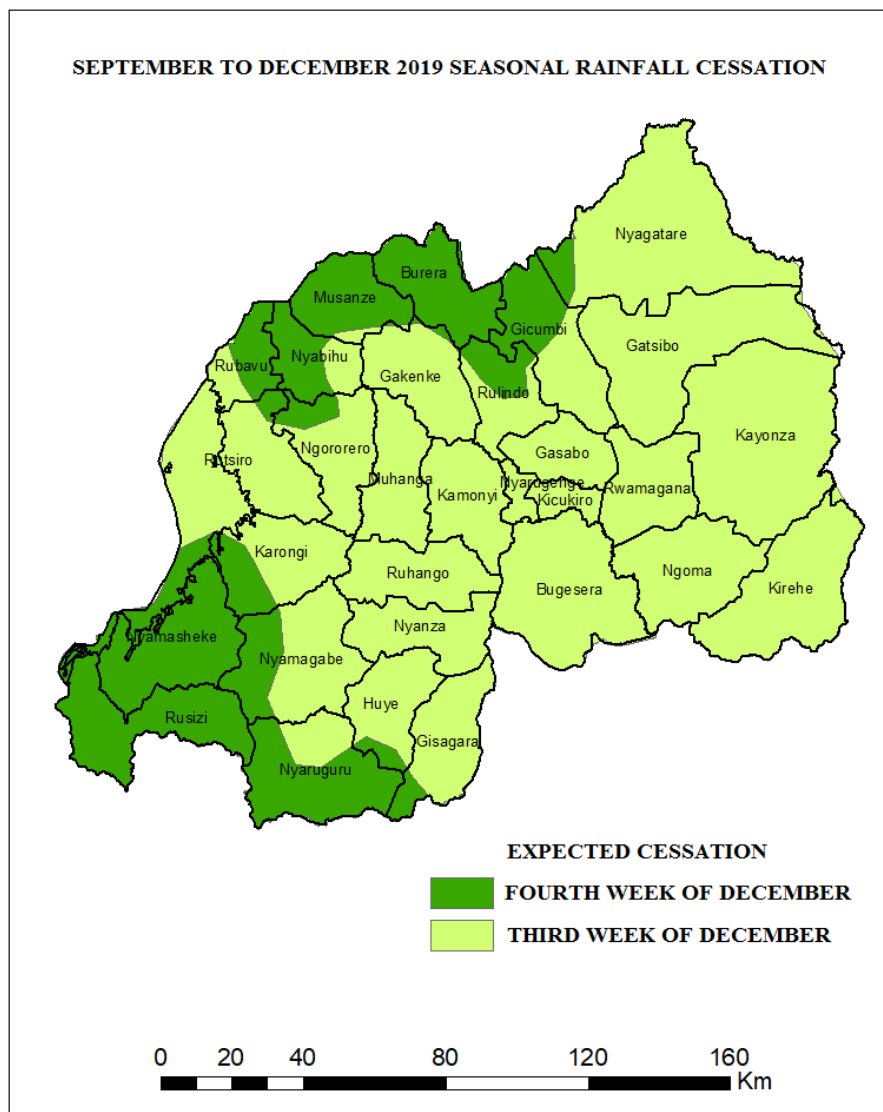
### **Rainfall between 400-500 mm**

The Western Province (Rusizi, Nyamasheke, Karongi and Rutsiro) and Southern Province (Nyaruguru) rainfall is expected to be more enhanced compared to other parts of the country.

### **Rainfall forecast for November, December 2019 to January 2020**



- The start of the rains was expected during the second and third week of September 2019 in most part of the Northern Province, Western Province, Kigali city and most of the Southern part as predicted during the release of SOND 2019.
- The start of the rains was expected during the third and fourth week of September 2019 in most parts of Eastern Province and few parts of the Southern Province as predicted during the release of SOND 2019.
- The cessation will start the third week of December 2019 in many parts of the country however the North Western and South Western parts of the country cessation is expected in the fourth week of December 2019.



## **THE EXPECTED IMPACTS IN VARIOUS SECTORS**

The rainfall is expected to be within the range of long Term Mean and above during the month of November, December 2019 and January 2020, which may be associated with floods and other likely impacts such as landslides, destruction of houses and on there others hand areas expected to have less rainfall below the Long Term mean may experience unfavorable conditions for crops.

Thefore relevant authorities are advised put in place both preventive and mitigative strategies to minimize loss of life and property.

The above Long Term Mean rainfall performance during the season may result into:

- Floods and landslides over some parts of the country.
- Reduced agricultural activities in some areas due to landslides, floods and water logging in some area.
- Damage to Infrastructure in some parts of the country.
- Increased for diseases due to water borne diseases Weather/Climate.

**N.B** This outlook is supplimented by daily updates of different timescales (24-hours, 3-days 5-days and 10-days forecasts and regular monthly updates) and advisories issued by Rwanda Meteorology Agency.

Done on 4<sup>th</sup> November, 2019.

**Aimable GAHIGI**

**Director General**