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### **SEASONAL FORECAST FOR SEPTEMBER TO DECEMBER (SOND) 2019, N°53**

September to December (SOND) short rainfall constitutes an important rainfall season over the country.

The National consensus climate outlook for the September to December 2019 season indicates higher chance of wetter conditions in most over most part of the country depending on the topography. The Key factors expected to influence the regional climate during the SOND 2019 season include positive Indian Ocean Dipole (IOD) anomalies currently present in the Indian Ocean are expected to remain positive and weak El Nino Southern Oscillation Index (ENSO) is expected to remain neutral through the September to December 2019 period. The influence of the ocean processes will be modulated by regional circulation systems, topography and large inland water bodies.

The Rwanda Meteorology Agency Climate scientists also involved in prediction of seasonal rainfall convened in Kigali at national level and used historical rainfall and temperature data for more than 30 years from different stations across the country with sea surface temperatures from global oceans (Indian, Pacific and Atlantic Ocean) also Guidance and valuable forecast inputs were drawn from a wide range of sources including the World Meteorological Organisation's Global Producing Centres (WMO-GPCs), Met Office, the International Research Institute for Climate and Society (IRI), African Centre of Meteorological Applications (ACMAD), and the National Meteorological and Hydrological Services (NMHSs) of the Greater Horn of Africa.

From the Statistical and Dynamical analysis done for each zone, the amount of seasonal rainfall forecast is as follows:

**Rainfall range between milimeter (500-600 mm)**

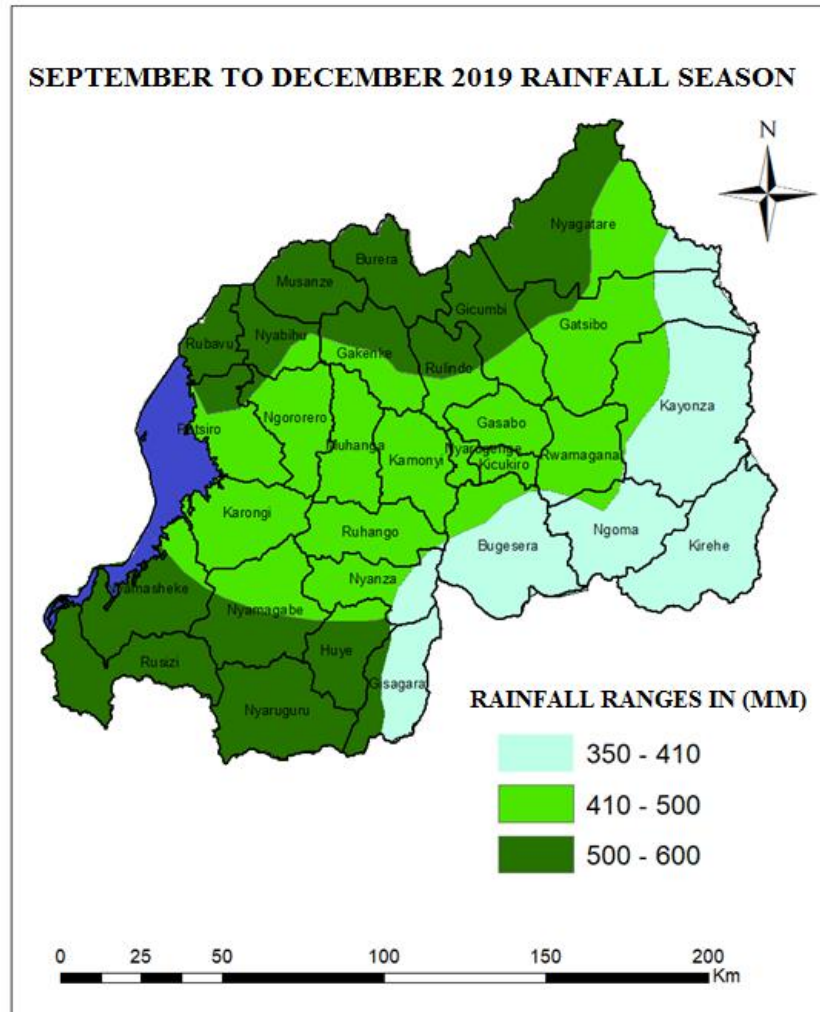
The Rainfall expected in the Northern region, (Musanze, Burera and most parts of Gicumbi, Gakenke na Rulindo), Western Province (Rubavu, Nyabihu, Rusizi, Nyamasheke and some part of Rutsiro district bordering Rubavu District, Southern Province (Nyaruguru, Huye, Gisagara and southern part of Nyamagabe) and Eastern Province (most part of Nyagatare, Gicumbi and few part of Gatsibo District).

**Rainfall range between milimeter (410-500 mm)**

The Rainfall expected in Kigali City (Nyarugenge, Kicukiro and Gasabo), Eastern Region (Rwamagana, Gatsibo, Northern part of Bugesera district and Eastern part of Kayonza), Southern Province (Kamonyi, Ruhango, Muhanga, Nyanza and northern part of Nyamagabe and Huye), Northern province (Southern part of Gakenke, Gicumbi and Rulindo) and Western province (Karongi, Ngororero, most part of Rutsiro and small part of Nyamasheke).

**Rainfall range between milimeter (350-500 mm)**

The Rainfall expected in Eastern Province (Kirehe, Ngoma, Bugesera, Kayonza and few parts of Nyagatare and Gatsibo near Akagera National Park) and Southern Province (West of Gisagara and Nyanza District).



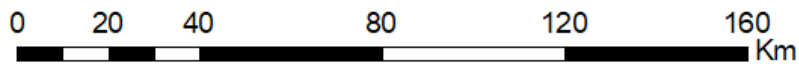
- The start of the rains is expected during the second week of September 2019 in most part of the Northern province, Western Province expect Karongi district and northern part Nyamasheke, Kigali city expect few places in the south part of the city, Southern province expect Ruhango and southern part of Muhanga, Kamonyi and northern part of Nyamagabe and Nyanza respectively.
- The start of the rains is expected during the third week of September 2019 in most part of Kirehe, Bugesera, Ngoma, Ruhango and Karongi, few places in kamonyi, Muhanga and Rwamagana.
- The cessation will start at the third week of December 2019 in many part of the country expects some region in the North Western and South Western part of the country where the rain will cease in the fourth week of December 2019

**SEPTEMBER TO DECEMBER 2019 SEASONAL RAINFALL ONSET**

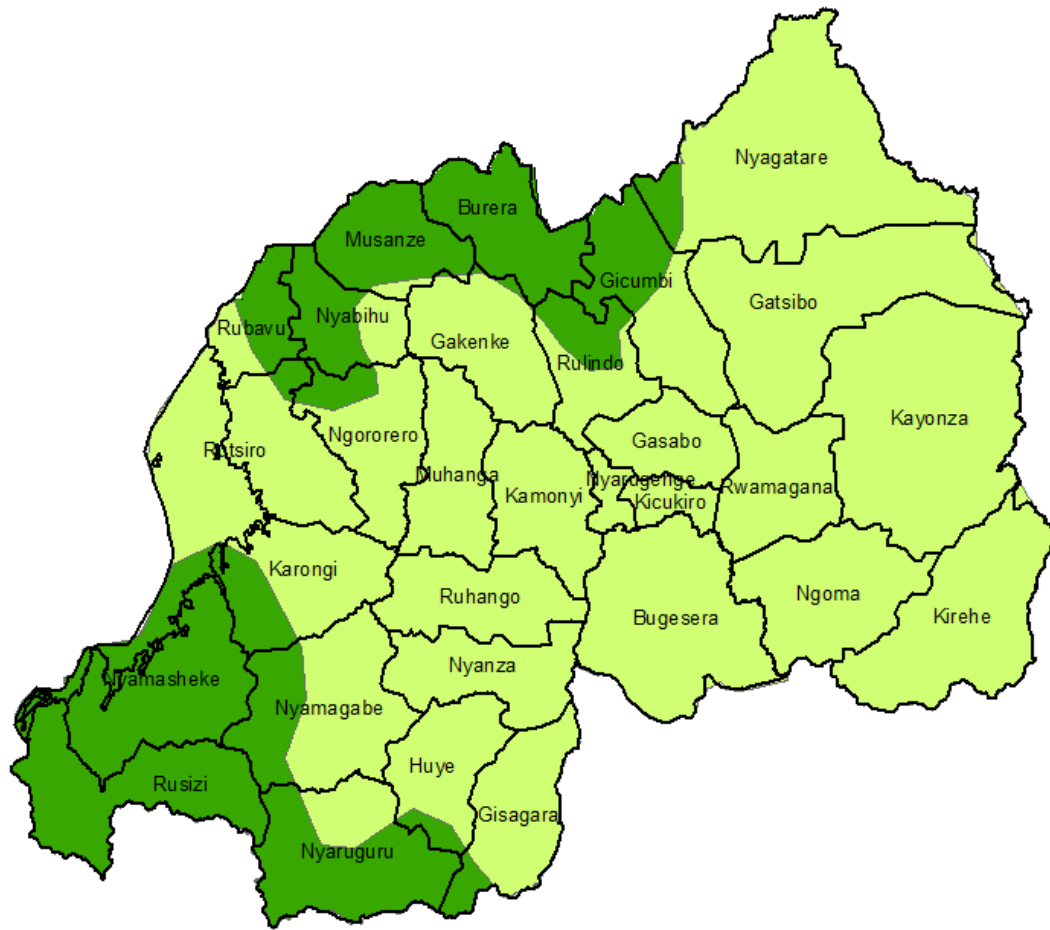


**SOND ONSET**



- SECOND WEEK OF SEPTEMBER**
- THIRD WEEK OF SEPTEMBER**

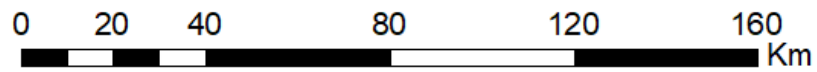


**SEPTEMBER TO DECEMBER 2019 SEASONAL RAINFALL CESSATION**



**EXPECTED CESSATION**

-  **FOURTH WEEK OF DECEMBER**
-  **THIRD WEEK OF DECEMBER**



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

more rainfall expected than normal during the September to December 2019 rainfall season may cause floods and other related disasters such as landslides, destruction of houses and others and less rainfall than normal expected during the September to December 2019 rainfall season may cause unfavorable conditions for crop yield.

Therefore relevant authorities with activities that depend on rainfall and other vulnerable institutions like infrastructures should put in place both preventive and mitigative strategies to minimize loss of life and property.

The favorable 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 supplemented 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> September, 2019.

**Aimable GAHIGI**

**Director General**