



## SEASONAL FORECAST FOR SEPTEMBER TO DECEMBER (SOND) 2022, N°61

September-October-November-December (SOND) is one of the main rainy season in Rwanda. The National consensus on climate outlook for the September to December 2022 season indicates higher chances of below-normal rainfall conditions over many parts of the country.

The key factors expected to influence rainfall during SOND 2022 season are colder than normal Sea Surface Temperature (SST) in the Eastern Pacific Ocean and negative Indian Ocean Dipole (IOD). These conditions are expected to persist throughout the season. The negative IOD associated with La Nina episodes are usually characterized by an unusual coldness in Equatorial Pacific and Indian Ocean sub-surface waters. They are linked with reduced rainfall over East Africa, including Rwanda, due to reduced advection of moisture from the ocean to the land.

The selected analogue years for SOND 2022 are 2021, 2008, 1989 and 1985.

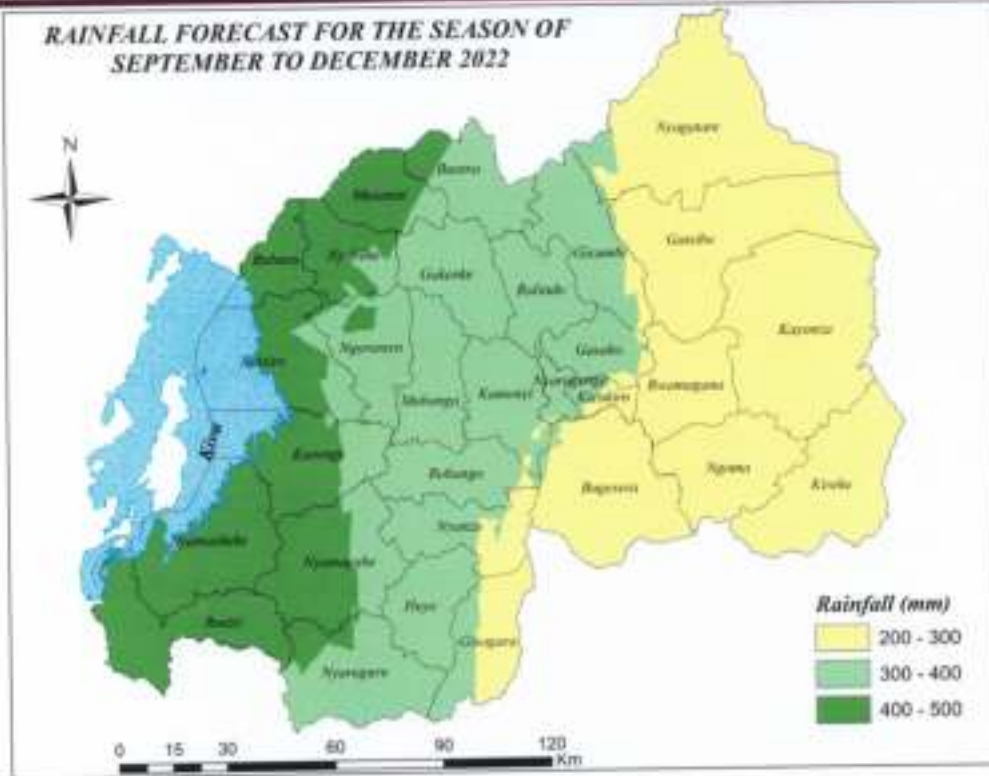
Different districts are anticipated to receive various amounts of rainfall as follows:

- **Rainfall ranging between 200-300 millimeter** is expected in most parts of Eastern Province, over Amayaga region, specifically in many parts of Gisagara and eastern parts of Nyanza, and over parts of Kicukiro, Gasabo and Gicumbi districts bordering Eastern Province.
- **Rainfall ranging between 300-400 millimeters** is expected in most parts of Northern Province except in Musanze and northwestern parts of Burera District. It is also likely in Kigali City, Southern Province, except over most parts of Nyamagabe, northern parts of Nyaruguru, most parts of Ngororero and southwestern parts of Nyabihu District.
- **Rainfall ranging between 400-500 millimeters** is expected in most parts of Musanze and northwestern parts of Burera district. It is also expected over most Western Province except parts of Ngororero and southeastern parts of Nyabihu district where rainfall between 300 and 400 mm is expected.





**RAINFALL FORECAST FOR THE SEASON OF SEPTEMBER TO DECEMBER 2022**



**ONSET DATES FOR THE SEPTEMBER TO DECEMBER 2022 RAINFALL SEASON**







### SOND 2022 ONSET AND CESSATION

The onset (start of the seasonal rainfall) is expected between 30<sup>th</sup> August and 9<sup>th</sup> September in Musanze, Burera, northern parts of Gakenke and Muhanga Districts and over most parts of Western Province except many parts of Rusizi District, eastern parts of Karongi and Nyamasheke, and southeastern parts of Ngororero District.

Rainfall is expected to start between 9<sup>th</sup> and 19<sup>th</sup> September 2022 over the remaining parts of Northern Province, in most parts of Rusizi District, western parts of Karongi and Nyamasheke District and southeastern parts of Ngororero District, over northern parts of Eastern province in Nyagatare and Gatsibo Districts, in most parts of Southern Province except in some parts of Amayaga region more specifically in eastern parts of Huye and Nyaruguru Districts, and over northern parts of Gasabo and Nyarugenge Districts in Kigali City.

The rainfall onset over the remaining parts of Kigali City, Gisagara District, eastern parts of Kamonyi, Ruhango, Nyanza, Huye, Nyaruguru and many parts of Eastern Province except Nyagatare and most parts of Gatsibo Districts is likely to start between 19<sup>th</sup> and 29<sup>th</sup> September 2022.





The cessation (end of rainy season) is expected between 15<sup>th</sup> and 25<sup>th</sup> December 2022 countrywide.

The forecasted rainfall amount, onset and cessation dates of SOND 2022 in different regions of the country are provided in the following table.

Province	District	Expected rainfall amount (mm)	Onset date	Cessation date
City of Kigali	Nyarugenge	300 - 400	19-29 Sept. 9-19 Sept. (northern)	15-25 December
	Gasabo	300 - 400 and 200 - 300 (small part of eastern)	19-29 Sept. 9-19 Sept. (northern)	15-25 December
	Kicukiro	300 - 400 and 200 - 300 (east)	19-29 Sept.	15-25 December
Northern Province	Musanze	400 - 500 (most) and 300 - 400 (southeastern)	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.	15-25 December
	Gicumbi	300 - 400 (most) and 200 -300 (a small part of the east)	9-19 Sept.	15-25 December
	Rulindo	300 - 400	9-19 Sept.	15-25 December
	Burera	300 - 400 (most) and 400 - 500 (northwestern)	30 Aug.-9 Sept.	15-25 December
	Gakenke	300 - 400	30 Aug.-9 Sept. (northern) and 9-19 Sept. (remaining)	15-25 December
Southern Province	Kamonyi	300 - 400	9 - 19 <sup>th</sup> Sept. (most) and 19 <sup>th</sup> - 29 <sup>th</sup> Sept. (southern)	15-25 December
	Muhanga	300 - 400	30 <sup>th</sup> Aug. - 9 <sup>th</sup> Sept. (northern) and 9- 19 <sup>th</sup> Sept. (remaining)	15-25 December
	Ruhango	300 - 400	9-19 <sup>th</sup> (most) and 19 <sup>th</sup> -29 <sup>th</sup> Sept. (eastern)	15-25 December
	Nyanza	300 - 400 and 200 - 300 (eastern)	9-19 <sup>th</sup> (most) and 19 <sup>th</sup> -29 <sup>th</sup> Sept. (eastern)	15-25 December
	Huye	300 - 400	9 - 19 <sup>th</sup> Sept. (most) and 19 <sup>th</sup> -29 <sup>th</sup> Sept. (western)	15-25 December







			19 <sup>th</sup> -29 <sup>th</sup> Sept. (eastern)	
	Gisagara	200 -300 (most) 300 - 400 (western)	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Nyamagabe	400 -500 (most) and 300 - 400 (eastern)	9-19 <sup>th</sup> Sept.	15-25 December
	Nyaruguru	300 - 400 (most) 400 - 500 (northwestern)	9-19 <sup>th</sup> Sept. (most) and 19 <sup>th</sup> -29 <sup>th</sup> Sept. (eastern)	15-25 December
Eastern Province	Bugesera	200 - 300	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Kirehe	200 - 300	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Gatsibo	200 - 300	9-19 <sup>th</sup> Sept. (most) and 19 <sup>th</sup> -29 <sup>th</sup> Sept. (southeastern)	15-25 December
	Kayanza	200 - 300	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Rwamagana	200 - 300	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Ngoma	200 - 300	19 <sup>th</sup> -29 <sup>th</sup> Sept.	15-25 December
	Nyagatare	200 -300 (most) 300 - 400 (small part of western)	9-19 <sup>th</sup> Sept.	15-25 December
Western Province	Nyabihu	400 - 500 (most) 300 - 400 (southeastern)	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.	15-25 December
	Rubavu	400 - 500	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.	15-25 December
	Rutsiro	400 - 500 (most) 300 - 400 (eastern)	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.	15-25 December
	Karongi	400 - 500 (most) 300 - 400 (eastern)	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.(west) and 9 <sup>th</sup> - 19 <sup>th</sup> Sept. (east)	15-25 December
	Ngororero	300 - 400 (most) 400 - 500 (central parts of north)	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.(most) and 9 <sup>th</sup> - 19 <sup>th</sup> Sept. (southeast)	15-25 December
	Nyamasheke	400 - 500	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.(west) and 9 <sup>th</sup> - 19 <sup>th</sup> Sept. (east)	15-25 December
	Rusizi	400 - 500	30 <sup>th</sup> Aug.-9 <sup>th</sup> Sept.(northwest) and 9 <sup>th</sup> -19 <sup>th</sup> Sept. (most)	15-25 December





## THE EXPECTED IMPACTS IN VARIOUS SECTORS

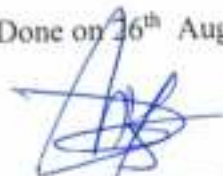
The expected near normal to below normal rainfall during September to December 2022 may lead to extreme weather phenomena such as dry spells, localized flooding, landslides, strong winds and other extreme weather-related events in some parts of the country.

Meteo Rwanda, in collaboration with the Ministry of Agriculture and Animal Resources (MINAGRI), Rwanda Agriculture and Animal Resources Development Board (RAB), Ministry in Charge of Emergency Management (MINEMA) and other partners, will continue to support different initiatives aimed at availing weather and climate products for effective planning and decision making especially in weather extreme prone areas.

For more information, contact Rwanda Meteorology Agency (Meteo Rwanda) on its social media and toll-free number **6080**.

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

Done on 26<sup>th</sup> August 2022

  
**Aimable GAHIGI**  
**Director General**

