



ISO 9001:2015 CERTIFIED

SEASONAL FORECAST FOR SEPTEMBER TO DECEMBER (SOND) 2023, Nº 65

The Rwanda Meteorology Agency (METEO RWANDA) is pleased to release the seasonal forecast for the September to December (SOND) rainfall season 2023. This forecast is based on extensive analysis of the atmospheric and oceanic conditions, and it provides valuable information for the planning and decision-making purposes. September to December period is one of the main rainy seasons in Rwanda which is very important for the buildup benefits on socio-economic sectors. The National consensus on climate outlook for the September to December 2023 season indicates higher chances of normal to above normal conditions according to the global, regional and local climate factors influencing the seasonal rainfall pattern.

The key factors expected to influence rainfall occurrence during SOND 2023 season are the Sea Surface Temperature (SST) that are likely to be above the normal conditions over the coming months in equatorial Pacific Ocean reflecting a high probability of El Nino conditions and positive Indian Ocean Dipole (IOD). The positive IOD coupled with ENSO episodes are usually characterized by wetter than normal rainfall conditions over East Africa, including areas where Rwanda is located with stronger and widespread impacts.

The selected analogue years for SOND 2023 are 1997, 2002 and 2006.

Different parts of the country expect to receive different amounts of rainfall as follows:

Rainfall ranging 300 -400 millimeters

The rainfall is expected in the north-eastern parts of Kirehe as well as small portion of the eastern parts of Kayonza Districts.

Rainfall ranging between 400-500 millimeters

The rainfall is expected in Bugesera, Ngoma and most parts of Kayonza, Rwamagana, Gatsibo and Kirehe Districts, small portion of south eastern Nyagatare in Eastern Province, City of

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Kigali over most parts of Nyarugenge, Kicukiro and eastern parts of Gasabo District, a small part of eastern Kamonyi, Ruhango, Nyanza and Gisagara Districts.

Rainfall ranging between 500-600 millimeters

The rainfall is expected in most parts of Nyagatare, Gicumbi, Rulindo, Gasabo, Kamonyi, Muhanga, Ruhango, Nyanza, Huye and Gisagara Districts. It is expected also in a small part of southern Gakenke District, western Kayonza and eastern Rwamagana Districts in the Eastern Province.

Rainfall ranging between 600-700 millimeters

The rainfall is expected in Rubavu, Nyabihu, Rutsiro, Ngororero and most parts of Karongi, western parts of Nyamasheke and Rusizi in the Western Province, Burera, Musanze and Gakenke and small parts of northern Rulindo and Gicumbi in the Northern Province, most parts of Nyaruguru and eastern Nyamagabe Districts, a small part of western Muhanga, Ruhango, Nyanza and Huye Districts in the Southern Province.

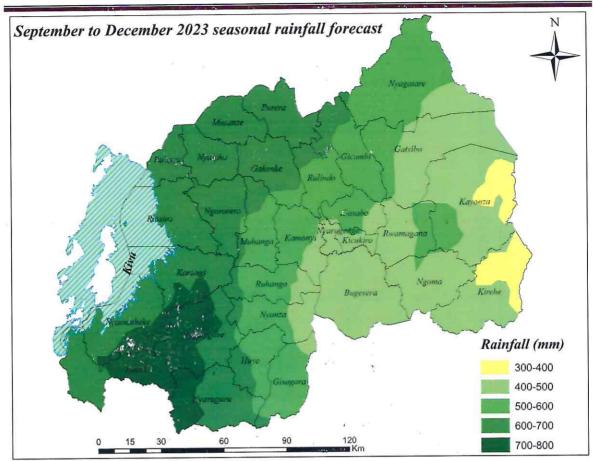
Rainfall ranging between 700-800 millimeters

The rainfall is expected in most parts of Nyamagabe, western parts of Nyaruguru District near Nyungwe National Park, in eastern parts of Rusizi and Nyamasheke Districts. It is also expected in a small part of southern Karongi District.





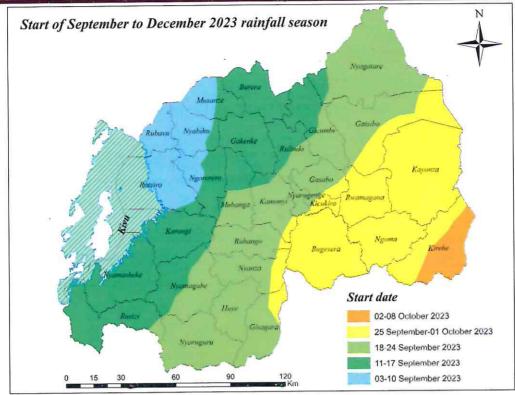


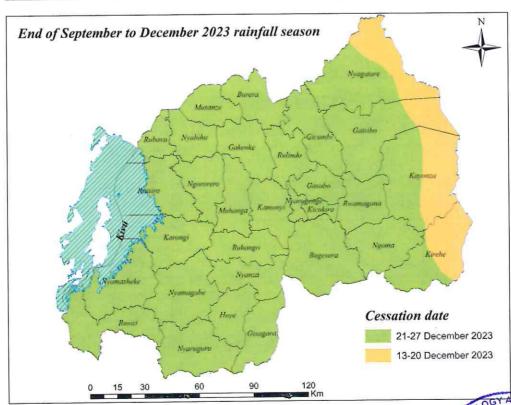












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THE ONSET OR THE START OF SOND 2023 RAINFALL SEASON

* Between 3rd and 10th September 2023

The onset of SOND rains is expected in Rubavu, most parts of Rutsiro, Nyabihu, Musanze and western parts of Ngororero District.

❖ Between 11th and 17th September 2023

Rainfall is expected to start in Nyamasheke, Karongi, Rusizi, Gakenke and Burera Districts, eastern parts of Musanze, Nyabihu and Ngororero Districts, northern parts of Gicumbi, Rulindo Muhanga and Kamonyi Districts and western parts of Nyamagabe District.

❖ Between 18th and 24th September 2023

The rainfall onset is expected in most parts of Nyaruguru, Nyanza, Huye, Gisagara, Ruhango, Kamonyi, Nyarugenge, Gasabo, Nyagatare and Gatsibo Districts, it's also expected in southern parts of Muhanga, Gicumbi, Rulindo and a small part of northern Kicukiro Districts.

❖ Between 25th September and 1st October 2023

The rainfall onset is expected in Bugesera, Rwamagana, Ngoma, Kayonza, most parts of southern Gasabo, Kicukiro, Gatsibo, eastern parts of Kamonyi, northern parts of Kirehe, Ruhango, Nyanza and Gisagara Districts.

❖ Between 2nd and 8th October 2023

The rainfall onset is expected in southern and eastern Kirehe District.

THE CESSATION OR THE END OF SOND 2023 RAINFALL SEASON

❖ Between 13th and 20th December 2023

The cessation of SOND rain is expected in eastern parts of Kirehe, Kayonza, Gatsibo and Nyagatare Districts in the Eastern province.

❖ Between 21st and 27th December 2023

The cessation is expected on in most parts of Western, Northern, Southern, western parts of Eastern Province and Kigali City.

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The forecasted rainfall amount, onset and cessation dates of SOND 2023 in different regions of the country are provided in the following table.

Province	District	Expected rainfall	Onset date	Cessation date
		amount (mm)	th th	crth
City of Kigali	Nyarugenge	500-600 (north) 400-500 (most part)	18 th -24 th Sept	21 ^{sr} -27 th December
	Gasabo	500 - 600	18 th -24 th Sept	21st -27th December
	Gasabo	400 - 500 east	25 th Sept to 1 st	21 27 233333
		400 - 300 cast	Oct	
	Kicukiro	400 - 500	18 th -24 th Sept	21st-27th December
	Telediciro	1.00	25 th Sept to 1 st	
			Oct	
Northern	Musanze	600 - 700	3 rd -10 th Sept	21st -27th December
Province	The state of the s	55/05/04/05/04/05 94 95 27	11 th -17 th Sept	
	Gicumbi	600 - 700 (north)	11 th -17 th Sept	21 st -27 th December
	1 //5-7-95-24 (14) 288-5503 (15) 380-	500-600 (most part)	18th -24th Sept	
	Rulindo	600 – 700 (north)	11 th -17 th Sept	21st -27th December
		500-600 (most part)	18 th -24 th Sept	
	Burera	600-700 (most parts)	11 th -17 th Sept	21 st -27 th December
	Gakenke	600-700 (most parts)	11 th -17 th Sept	21st -27th December
	Garciire	500-600 (southern)	ii ii sepi	
0 41	Vamanui	500 - 600 (most	11 th -17 th Sept	21st -27th December
Southern	Kamonyi		18 th -24 th Sept	Z1 -Z1 December
Province		parts) 400-500 (eastern)	25 th Sept to 1 st	
		400-300 (eastern)	Oct	
	37.1	500 - 600 (most	11 th -17 th Sept	21 st -27 th December
	Muhanga	7)	18 th -24 th Sept	Z1 -Z7 December
		parts)	16 -24 Sept	
		600-700 (western)	1.1th 1.7th C	21 st -27 th December
	Ruhango	400 - 500 (eastern)	11 th -17 th Sept	21 -27 December
		500-600 (most parts)	18 th -24 th Sept	
		600-700 (western)	25 th Sept to 1 st	
			Oct	aust agth D
	Nyanza	400 - 500 (eastern)	18 th -24 th Sept	21 st -27 th December
		500-600 (most parts)	25 th Sept to 1 st	
		600-700 (western)	Oct	at th
	Huye	500-600 (most parts)	18 th -24 th Sept	21st -27th December
	1.50	600-700 (western)		
	Gisagara	400 - 500 (northern)	18 th -24 th Sept	21st -27th December
		500-600 (most parts)	25 th Sept to 1 st	
		600-700 (southern)	Oct	
	Nyamagabe	400 - 500	11 th -17 th Sept	21st -27th December
	2.7	Section sections	18 th -24 th Sept	
	Nyaruguru	700-800 (most part)	18 th -24 th Sept	21st -27th December
	Tyaragura	, oo ooo (most part)		AGENO

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Province	District	Expected rainfall	Onset date	Cessation date
		amount (mm)		
		600-700 (southern)		
		500-600 (small parts	(9)	
		of eastern)		4
Eastern	Bugesera	400-500		21 st -27 th December
Province	32.2		Oct	
	Kirehe	400-500 (most parts)	25 th Sept to 1 st	21st -27th December
	Appetition and a	300-400 (north	Oct	13 th -20 th December
		eastern)	2 nd -8 th Oct	
	Gatsibo	500-600 (western)	18 th -24 th Sept	21st -27th December
		400-500 (most parts)	25 th Sept to 1 st	13 th -20 th December
	**	***************************************	Oct	
	Kayonza	500-600 (western)	25 th Sept to 1 st	21 st -27 th December
		400-500 (most parts)	Oct	13 th -20 th December
		300-400 (eastern)		
	Rwamagana	500-600 (eastern)	25 th Sept to 1 st	21st-27th December
		400-500 (most parts)	Oct	
	Ngoma	400 - 500	25 th Sept to 1 st	21 st -27 th December
	_		Oct	13 th -20 th December
	Nyagatare	400-500 (south	11 th -17 th Sept	21st -27th December
		eastern)	18 th -24 th Sept	13 th -20 th December
		500 - 600 (most part)		
Western	Nyabihu	600-700	3 rd -10 th Sept	21st -27th December
Province			11 th -17 th Sept	
	Rubavu	600-700	3 rd -10 th Sept	21 st -27 th December
	Rutsiro	600-700	3 rd -10 th Sept	21 st -27 th December
			11 th -17 th Sept 11 th -17 th Sept	at th
	Karongi	600-700	11 th -17 th Sept	21st -27th December
		700-800 (southern)	and the	at th
	Ngororero	600-700	3 rd -10 th Sept	21st -27th December
	13400	500-600 (small parts	11 th -17 th Sept	
		of eastern)	+6 +6	ct - th -
	Nyamasheke	600-700	11 th -17 th Sept	21 st -27 th December
		700-800 (south		
		eastern)	+h +h	etth =
	Rusizi	600-700	11 th -17 th Sept	21st -27th December
		700-800 (eastern)	18 th -24 th Sept	

THE EXPECTED IMPACTS IN VARIOUS SECTORS

The expected near normal to above normal rainfall during the September to December 2023 wet season may lead to extreme weather events such heavy rains, hailstorms, strong windstorms, etc. LOGY AGENC

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METEO RWANDA advises the public institutions, NGOs, Private sector and the general public, especially farmers, to take note of this forecast and use it to make informed decisions regarding agricultural activities.

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 providing weather and climate products for effective planning and informed decision especially in areas prone to extreme weather and climate events.

For more information, contact METEO RWANDA on its website, social media platforms and toll-free number 6080.

N.B. This seasonal forecast is supplemented by daily weather updates of different timescales 24-hours, 3-day, 5-day and 7-day, 10-day forecasts, regular monthly forecast updates and advisories issued by METEO RWANDA.

Done at Kigali on 24th August 2023

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