

13th December, 2021

Weekly Press Release

WEEKLY COVID-19 CASE PROJECTIONS:

1. Summary

While Uganda has recorded low number of cases over the past 2 months, an upward trend has been observed in the last two weeks. The model is projecting an increase in new cases for the week of **12th to 18th December** with an average of **58 new cases** per day and a **weekly total of 404** new cases. For the week of **19th to 25th December**, a daily average of **70** new cases and a **weekly total of 490** is projected.

On the African continent, South Africa has continued to record increasing new COVID-19 cases, with **109,053** cases recorded for the week **ending 11th December** compared to **62,000** the **week before**. Several other African countries have recorded increases in new COVID-19 cases as can be observed in **Table 1** and **Figure 1** and **2**, which highlight the trend of cases in the last 2 months. These include Zimbabwe, Swaziland, Nigeria and Namibia, among others. Countries that have recorded a decrease in the number of cases include Egypt, Libya, Algeria, Tunisia and Sudan.

As noted last week, internal factors are driving new cases in most countries in Africa, except for Lethoso, Benin, Republic of Congo, Central African Republic and South Sudan.

Elsewhere, US, Germany and United Kingdom are the top three countries with the highest number of COVID-19 cases, respectively. Russia, Turkey, Czechia, Hungary, Austria and India, among others, experienced a decline in the number of cases. On the other hand, France Poland, Belgium, Vietnam, Italy, Slovakia, Spain, among others, experienced an increase in the number of cases over the past weeks,

Table 1: Reported and projected cases for top 10 African countries

Country	Reported Cases			Projections	
	3 Week Total (21 st Nov – 11 th Dec)	Weekly Total (5 th – 11 th Dec)	Daily Average (5 th – 11 th Dec)	Weekly Total (12 th – 18 th Dec)	Daily average (12 th – 18 th Dec)
South Africa	200,447	109,053	15,579.00	128,042.78	18,291.83
Zimbabwe ↑	31,387	26,479	3,782.71	24,042.91	3,434.70
Egypt ↓	18,822	6,075	867.86	5,979.10	854.16
Libya ↓	10,232	3,170	452.86	3,103.83	443.40
Swaziland ↑	5,688	4,806	686.57	4,289.99	612.86
Algeria ↓	3,813	1,355	193.57	1,222.44	174.63
Nigeria ↑	3,531	2,496	356.57	2,345.15	335.02
Tunisia ↓	3,251	1,156	165.14	1,084.89	154.98
Namibia ↑	3,195	2,633	376.14	2,813.95	401.99
Sudan ↓	2,971	1,040	148.57	859.66	122.81

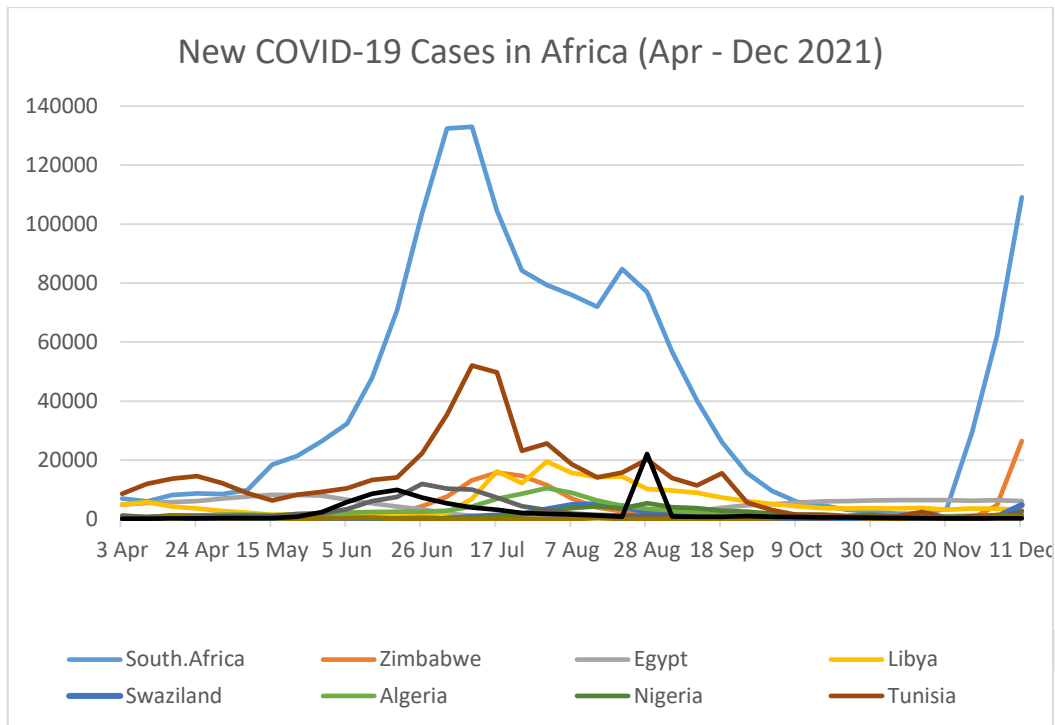


Figure 1: Trend of COVID-19 cases on the African Continent from April, 2021 to date

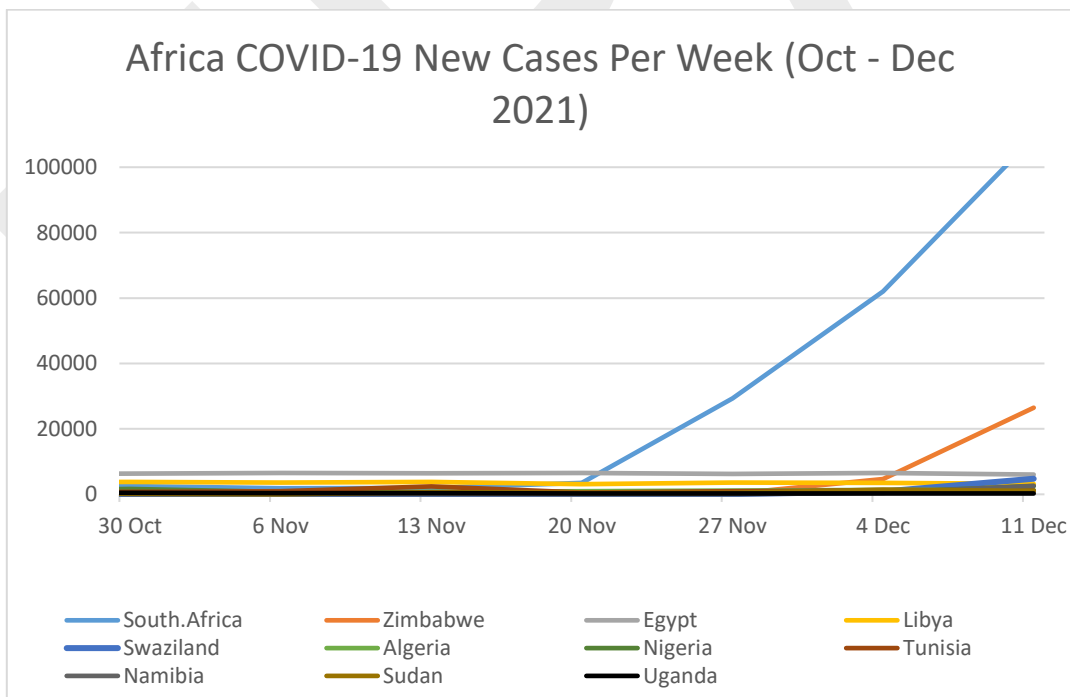


Figure 2: Trend of COVID-19 cases on the African Continent from September, 2021 to date (expanded view of Figure 1)

2. Model Projections

2.1. Bi-weekly projections

The model was run on 12th December 2021 to estimate the number of new cases between 12th and 25th December and the projections are given in **Table 2**.

Table 2 – Bi-weekly projection of new cases

Week	Projected New Covid-19 cases	Projected Daily Average
12 th – 18 th Dec	404.22	57.75
19 th – 25 th Dec	490.33	70.05

A comparison of the previous weeks' projections and actual reported cases is given in **Table 3**.

Table 3 – Projection of new cases for past weeks

Week	Projected New Covid-19 cases		Actual Reported cases	
	Weekly	Daily Average	Weekly	Daily Average
5 th – 11 th Dec	311.50	44.50	293	
28 th Nov – 4 th Dec	236.26	33.75	228	
21 st – 27 th Nov	253.63	36.23	295	
14 th – 20 th Nov	340.75	48.68	239	34.14
7 th – 13 th Nov	351	50.18	397	57
31 st Oct – 6 th Nov	395	56.36	417	60
24 – 30 th Oct	431	61.56	430	61
17 – 23 rd Oct	516	74	443	74
10 th – 16 th Oct	604	86	550	78
3 rd – 9 th Oct 2021	1,129	161	687	98
26 th Sep – 2 nd Oct 2021	934	133	676	121
19 th – 25 th Sep 2021	871	110	983	140
12 th – 18 th Sep 2021	1,177	168	787	112
5 th – 11 th Sept 2021	1,357	194	830	119
29 th Aug – 4 th Sept 2021	1,124	160	922	132
22 nd – 28 th Aug 2021	1,184	169	1048	150
15 th – 21 st Aug 2021	1,252	178	1050	150
8 th – 14 th Aug 2021	1,420	203	1,204	172
1 st – 7 th Aug 2021	1,586	215	1,547	221
25 th – 31 st July 2021	2,158	308	1,812	259
18 th – 24 th July 2021	3,177	454	2,141	305
11 th – 17 th July 2021	4,011	573	3,219	460
4 th – 10 th July 2021	5,808	830	3,903	558
27 th June – 3 rd July 2021	7,259	1,037	5,347	764
20 th – 26 th June 2021	10,468	1,495	7,329	1,047
13 th – 19 th June 2021	10,144	1,449	9,926	1,418
6 th – 12 th June 2021	7,005	1,001	8,574	1,225

2.2. Projected trend of new cases

Below are the model predictions against reported cases from April 2020 to date.

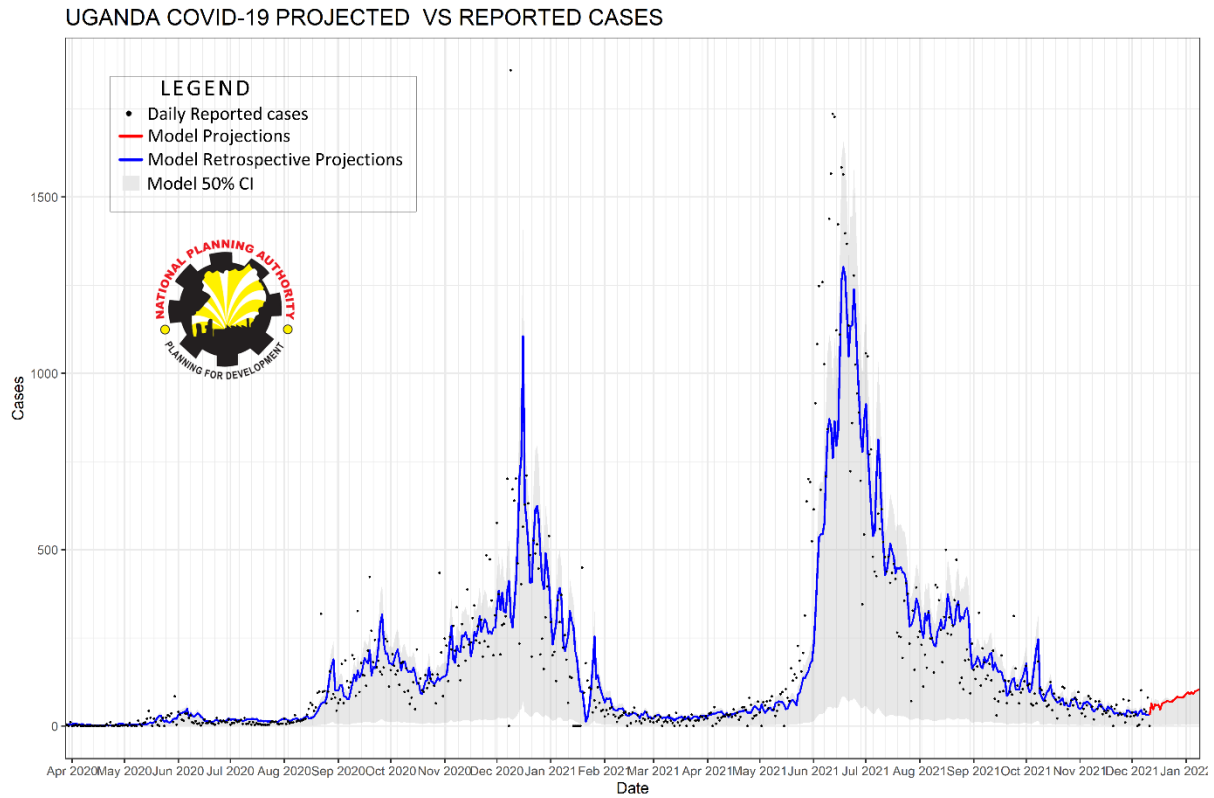


Fig 1: Model Projections and reported cases

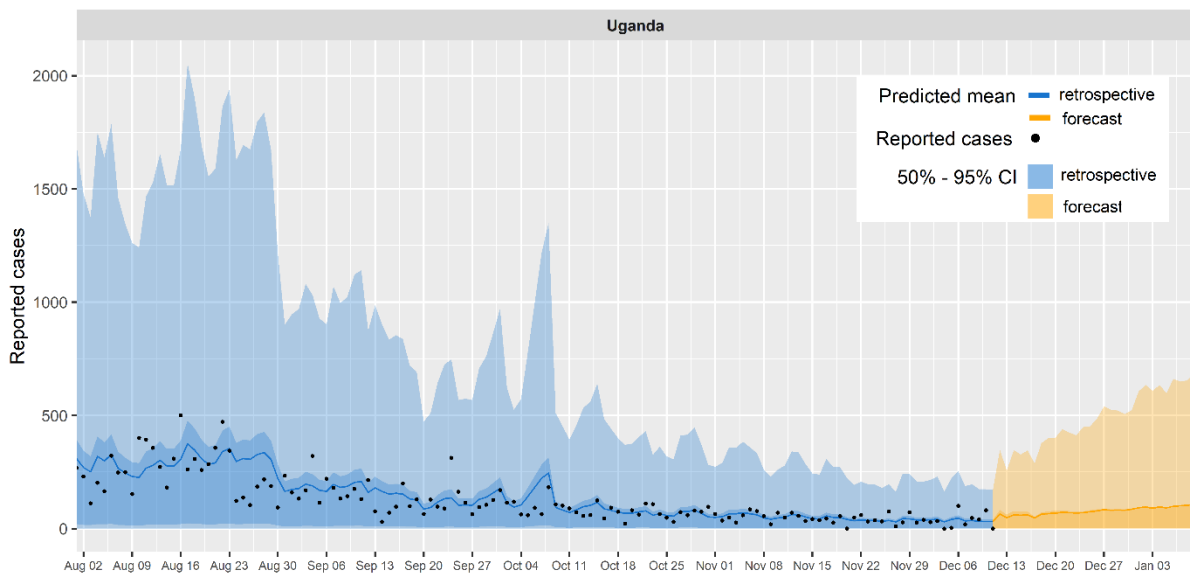


Fig 2: Short Term Model Projections



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Table 4 – Reported and Projected cases for African countries with the highest recorded cases

Country	Reported Cases							Projections				
	Last 3 Weeks Total	5 th – 11 th Dec 2021					Week Total	Daily Average	12 th – 18 th Dec		19 th – 25 th Dec	
		12/08/21	12/09/21	12/10/21	12/11/21	Week Total			Daily Average	Week Total	Daily average	Weekly Total
South Africa	200,447	22,388	19,017	17,153	109,053	15,579.00	128,042.78	18,291.83	144,919.70	20,702.81		
Zimbabwe ↑	31,387	5,189	-	9,185	26,479	3,782.71	24,042.91	3,434.70	20,043.38	2,863.34		
Egypt ↓	18,822	803	822	879	6,075	867.86	5,979.10	854.16	6,020.87	860.12		
Libya ↓	10,232	495	577	-	3,170	452.86	3,103.83	443.40	3,110.09	444.30		
Swaziland ↑	5,688	1,084	835	1,002	4,806	686.57	4,289.99	612.86	3,941.78	563.11		
Algeria ↓	3,813	177	210	218	1,355	193.57	1,222.44	174.63	1,119.38	159.91		
Nigeria ↑	3,531	-	1,287	612	2,496	356.57	2,345.15	335.02	2,266.98	323.85		
Tunisia ↓	3,251	140	241	187	1,156	165.14	1,084.89	154.98	995.87	142.27		
Namibia ↑	3,195	179	1,000	1,041	2,633	376.14	2,813.95	401.99	3,017.50	431.07		
Sudan ↓	2,971	-	123	-	1,040	148.57	859.66	122.81	780.58	111.51		
Ethiopia ↓	2,955	123	157	132	910	130.00	1,365.23	195.03	1,685.05	240.72		
Morocco ↓	2,550	146	175	113	879	125.57	1,102.51	157.50	1,294.34	184.91		
Democratic Republic of the Congo ↑	1,971	33	643	-	1,532	218.86	1,626.86	232.41	1,643.04	234.72		
Mozambique ↑	1,920	260	379	443	1,540	220.00	1,934.64	276.38	2,238.03	319.72		
Botswana ↑	1,645	538	-	-	788	112.57	1,994.53	284.93	3,056.07	436.58		
Mali ↓	1,585	76	75	100	692	98.86	595.97	85.14	523.19	74.74		
Kenya ↓	1,446	144	136	202	726	103.71	799.74	114.25	857.64	122.52		
Cameroon ↓	1,359	-	-	-	401	57.29	2,562.50	366.07	3,415.17	487.88		
Mauritania ↓	1,195	35	38	36	268	38.29	244.52	34.93	232.86	33.27		
Zambia ↑	902	126	162	235	665	95.00	3,437.17	491.02	5,235.16	747.88		

Table 5 – Countries recording the highest number of new COVID-19 cases in the last 3 weeks

Country	Last 3 Weeks	Reported Cases							Week Total	Daily Average
		05/12/2021	06/12/2021	07/12/2021	08/12/2021	09/12/2021	10/12/2021	11/12/2021		
US	2,181,875	47,573	182,337	111,928	149,401	117,619	172,294	51,148	832,300	118,900.00
Germany	1,154,448	22,945	18,322	93,087	27,482	103,018	53,296	32,752	350,902	50,128.86
United Kingdom	965,410	43,285	50,850	45,102	50,617	50,023	58,184	52,279	350,340	50,048.57
France ↑	809,935	42,153	11,278	56,241	61,176	56,649	-	108,844	336,341	48,048.71
Russia ↓	677,389	32,013	31,569	30,546	30,228	29,701	30,383	29,815	214,255	30,607.86
Poland ↑	482,334	22,394	13,250	19,369	28,549	27,459	24,988	23,762	159,771	22,824.43
Turkey ↓	471,846	19,357	20,033	22,687	20,874	19,696	18,561	19,255	140,463	20,066.14
Netherlands	442,195	23,078	20,965	17,911	18,062	19,763	17,471	17,712	134,962	19,280.29
Belgium ↑	348,272	-	41,439	10,878	18,714	16,029	15,245	-	102,305	14,615.00
Czechia ↓	344,332	11,006	6,346	15,599	19,546	16,229	14,295	12,445	95,466	13,638.00
Vietnam ↑	313,788	14,314	14,591	13,840	14,599	15,311	14,839	16,141	103,635	14,805.00
Italy ↑	290,324	15,010	9,494	15,742	17,946	12,516	20,490	21,035	112,233	16,033.29
Ukraine	246,899	7,211	5,045	9,205	9,895	12,884	11,817	10,606	66,663	9,523.29
Slovakia ↑	215,690	8,572	4,639	9,380	10,724	9,970	7,935	7,379	58,599	8,371.29
Spain ↑	209,610	-	-	43,808	-	26,412	17,095	-	87,315	12,473.57
South Africa ↑	200,447	11,125	6,381	13,147	19,842	22,388	19,017	17,153	109,053	15,579.00
Hungary ↓	184,434	-	22,699	4,311	6,849	7,310	6,884	-	48,053	6,864.71
Austria ↓	182,984	5,192	4,625	4,233	5,663	4,437	3,659	4,460	32,269	4,609.86
India ↓	180,097	17,201	6,822	8,439	9,419	8,402	7,990	7,877	66,150	9,450.00
Switzerland	170,705	-	23,895	9,975	12,425	10,861	10,134	-	67,290	9,612.86