ZAMBIA COVID-19 SITUATION REPORT NO. 333 – EPI WEEK 40

Disease Pandemic: COVID-19 | **Response start date: 30th January, 2020** | **Outbreak Declared:18th March, 2020**
Report date: Sunday 10th Oct, 2021 | **Prepared by:** MOH/ZNPHI/WHO | **Correspondence:**ims.covid@znphi.co.zm

1. SITUATION UPDATE *This week (4th – 10th Oct)* *Cases 184* *Deaths 5* *Recoveries 291*

1.1 CURRENT NUMBERS (as of 09:00 hours CAT)

- **Epi-week review (*4th-10th Sept*):** 184 confirmed cases, 5 deaths, and 291 recoveries reported (compared to 306 confirmed cases, 3 deaths, and 442 recoveries the previous week).
  - This marks an **40% decrease in new cases** with **67% increase in deaths**
- **Last 4 weeks (14-day period comparison):** there were 490 new cases and 8 deaths reported in the last 2 weeks, compared to 919 new cases and 15 deaths reported in the preceding 2 weeks (**47% and 47% decrease respectively**).

Global Numbers
(Source: Worldometre)
238,631,164 Confirmed
4,866,999 Deaths (2.0% CFR)
215,791,310 Recoveries

Africa Numbers
(Source: Africa CDC)
8,383,097 Confirmed
213,877 Deaths (2.6% CFR)
7,733,014 Recoveries

- **Total new admissions**: 22 in the past week compared to 18 in the preceding week (22% increase).
- **Cumulatively**, 209,347 cases with 3,654 deaths (CFR=1.75%) and 205,478 recoveries (98% recovered). Of the total deaths, 2,736 have been classified as COVID-19 deaths (CFR=1.31%) and 918 as associated deaths.
  - **Currently**: there are **215 active cases**: of these, 195 (91%) are under community management and 20 (9%) are hospitalised, with 13 (65%) on Oxygen therapy and 2 (10%) in critical condition.

2. EPIDEMIOLOGICAL HIGHLIGHTS

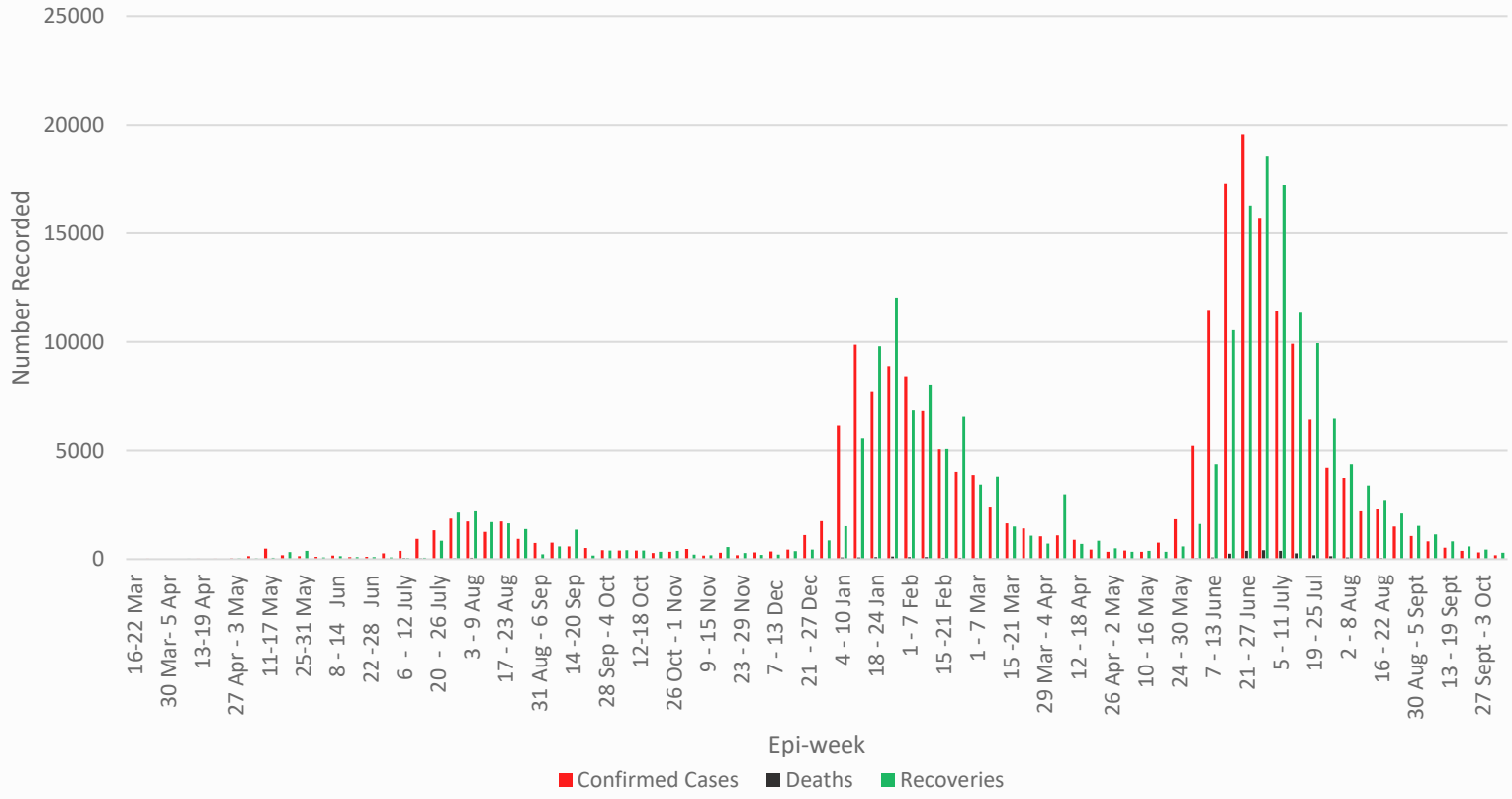


Figure 1: Epicurve of COVID-19 confirmed cases, deaths and recoveries by week, as of end of epi week 40 (10th Oct, 2021)

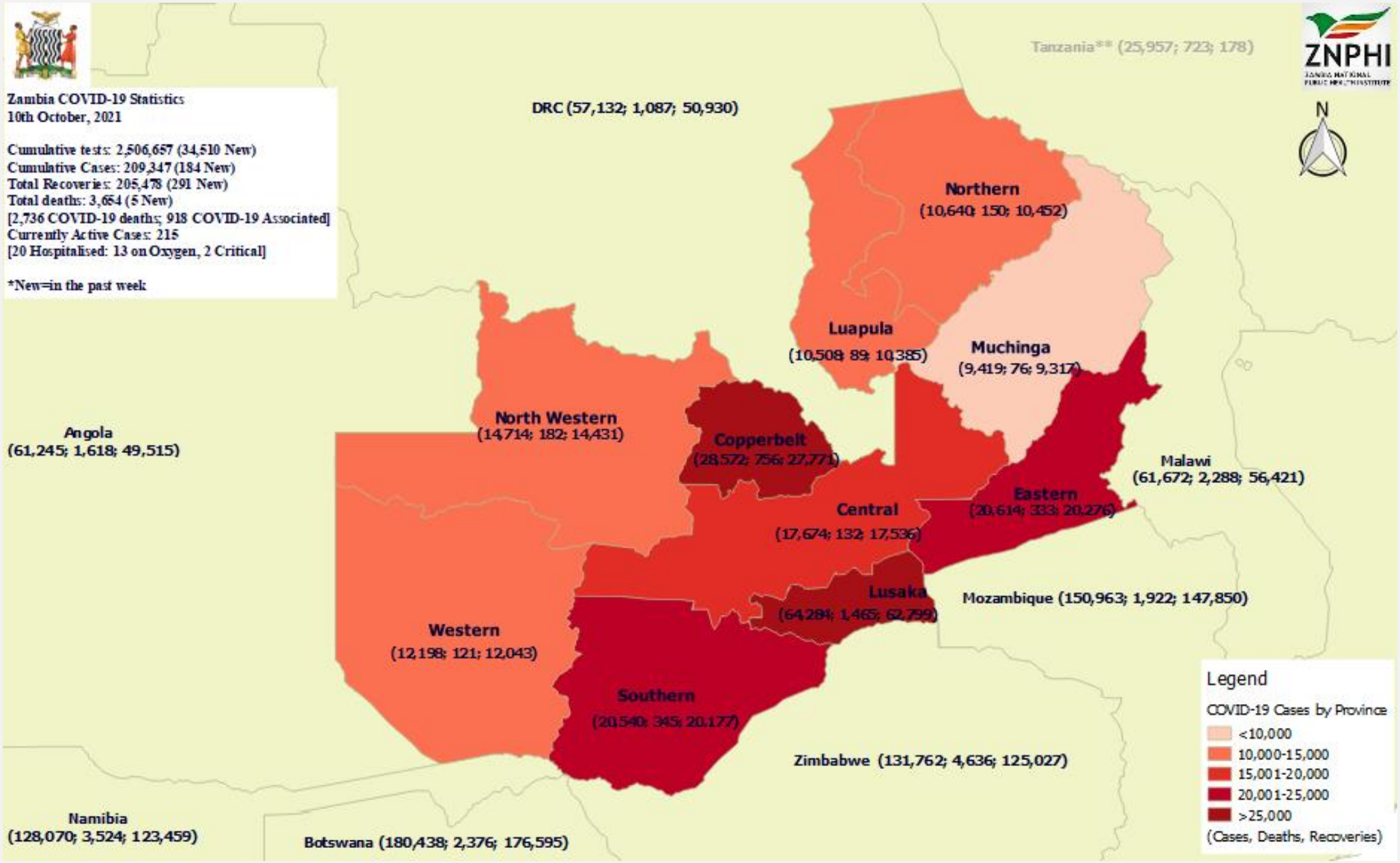


Figure 2: Map showing cumulative confirmed COVID-19 cases, deaths and recoveries (in brackets) by province and in neighbouring countries, as of 10th October, 2021

ZAMBIA COVID-19 WEEKLY STATISTICS
10th October, 2021
184 New cases reported from 57/116 districts (59 districts reported 0 new cases)

CENTRAL (4): Kabwe 2; Chisamba 1; Mumbwa 1; Chibombo 0; Chitambo 0; Itezhi-tezhi 0; Kapiri Mposhi 0; Luano 0; Mkushi 0; Ngabwe 0; Serenje 0; Shibuyunji 0;

COPPERBELT (36): Chingola 11; Kitwe 7; Mufulira 7; Chililabombwe 5; Masaiti 4; Lufwanyama 1; Ndola 1; Kalulushi 0; Luanshya 0; Mpongwe 0

EASTERN (11): Petauke 3; Chipangali 2; Chipata 2; Sinda 2; Mambwe 1; Nyimba 1; Chadiza 0; Chasefu 0; Kasenengwa 0; Katete 0; Lumezi 0; Lundazi 0; Lusangazi 0; Vubwi 0;

LUAPULA (25): Mansa 11; Mwense 3; Chembe 2; Chifunabuli 2; Samfya 2; Chipili 1; Kawambwa 1; Milenge 1; Mwansabombwe 1; Nchelenge 1; Chienge 0; Lunga 0;

LUSAKA (33): Lusaka 28; Chongwe 4; Chirundu 1; Chilanga 0; Kafue 0; Luangwa 0; Rufunsa 0;

MUCHINGA (19): Nakonde 6; Chinsali 5; Mafinga 3; Isoka 2; Kanchibiya 1; Mpika 1; Shiwangandu 1; Chama 0; Lavushimanda 0;

NORTHERN (13): Mbala 5; Kaputa 3; Luwingu 3; Lupososhi 1; Mungwi 1; Chilubi 0; Kasama 0; Lunte 0; Mporokoso 0; Mpulungu 0; Nsama 0; Senga Hill 0;

NORTH-WESTERN (24): Solwezi 13; Kasempa 5; Mufumbwe 2; Chavuma 1; Kalumbila 1; Mushindano 1; Mwinilunga 1; Ikelenge 0; Kabompo 0; Manyinga 0; Zambezi 0;

SOUTHERN (11): Zimba 5; Gwembe 4; Choma 1; Monze 1; Chikankata 0; Kalomo 0; Kazungula 0; Livingstone 0; Mazabuka 0; Namwala 0; Pemba 0; Siavonga 0; Sinazongwe 0;

WESTERN (8): Kaoma 2; Mwandi 2; Senanga 2; Nalolo 1; Sesheke 1; Kalabo 0; Limulunga 0; Luampa 0; Lukulu 0; Mitete 0; Mongu 0; Mulobezi 0; Nkeyema 0; Shangombo 0; Sikongo 0; Sioma 0;

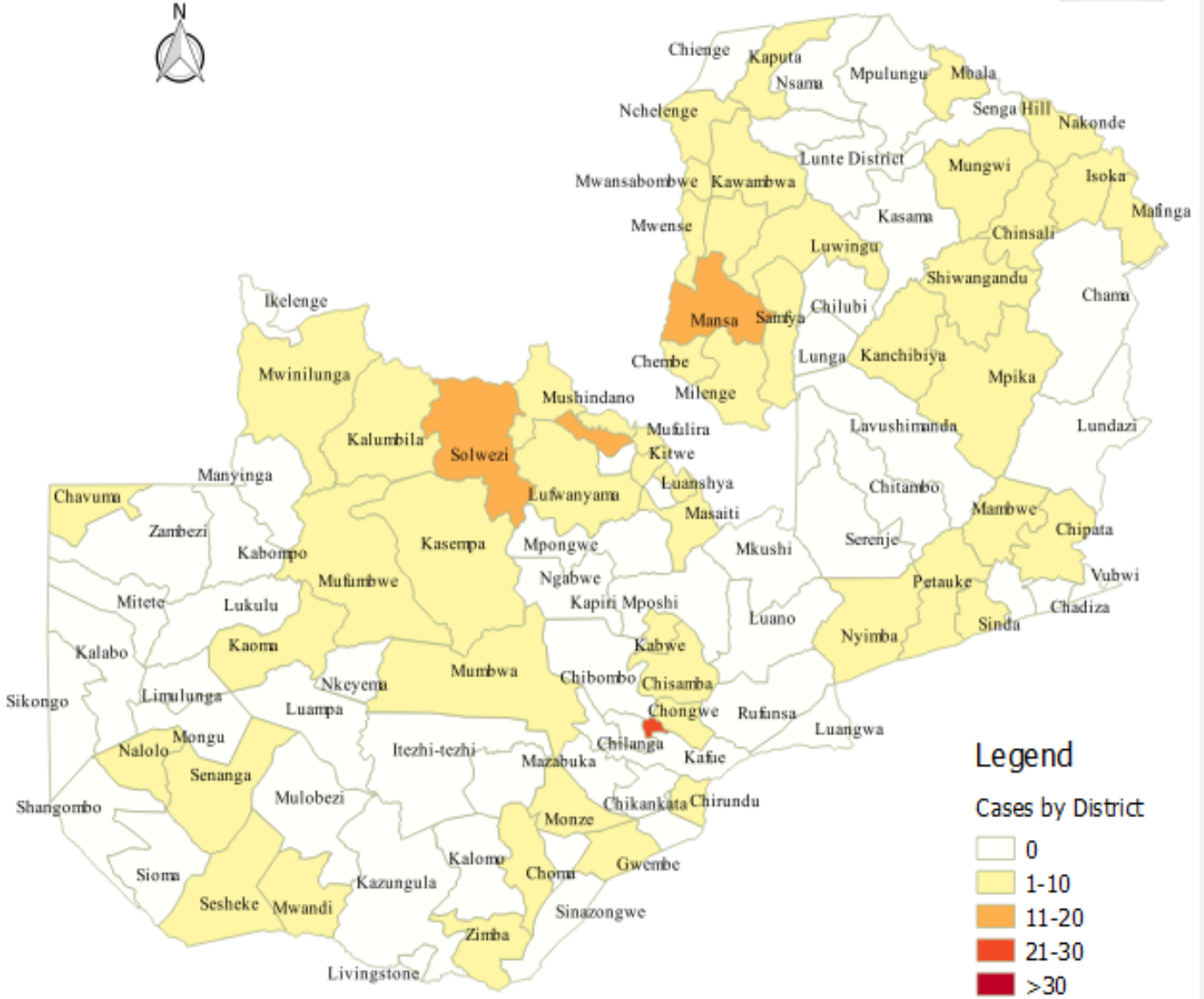


Figure 3: Map showing newly confirmed COVID-19 cases recorded by district during Epi-week 40 (4th – 10th October, 2021)

Table 1: Incidence risk by province

Province	Population (mid-2020)	Cumulative cases	Cumulative incidence risk (cases per 100 000 persons)	New cases in previous week	New Cases detected this week	Percentage change in new cases	Incidence risk last week (cases/100 000 persons)	Incidence risk this week (cases /100 000 persons)	Percentage change in incidence risk
Central	1,734,601	17,678	1,019	3	4	33% ↑	0.2	0.2	33% ↑
Copperbelt	2,669,635	28,608	1,072	39	36	- 8% ↓	1.5	1.3	- 8% ↓
Eastern	2,065,590	20,625	999	6	11	83% ↑	0.3	0.5	83% ↑
Luapula	1,276,608	10,533	825	29	25	-14% ↓	2.3	2.0	-14% ↓
Lusaka	3,360,183	64,317	1,914	25	33	32% ↑	0.7	1.0	32% ↑
Muchinga	1,095,535	9,438	861	30	19	-37% ↓	2.7	1.7	-37% ↓
Northern	1,520,004	10,653	701	36	13	-64% ↓	2.4	0.9	-64% ↓
N/western	950,789	14,738	1,550	98	24	-76% ↓	10.3	2.5	-76% ↓
Southern	2,135,794	20,551	962	13	11	-15% ↓	0.6	0.5	-15% ↓
Western	1,076,683	12,206	1,134	27	8	-70% ↓	2.5	0.7	-70% ↓
NATIONAL	**17,885,422**	**209,347**	**1,170**	**306**	**184**	**-40% ↓**	**1.7**	**1.0**	**-40% ↓**

↓reduction compared to last week ↑ increase compared to last week **~ approx. no change**

Table 2: Changes in indicators over the last two weeks

Indicator	Cumulative	7 days comparison		Change	
		Preceding 7 days	Last 7 days	Difference	% Change
Tests	2,506,657	39,213	34,510	-4,703 ↓	-12%↓
Test positivity	8.35%	0.8%	0.5%	-0.3%↓	-0.3% ↓
Tests/100,000 pop	14,015	219	193	- 26 ↓	- 12% ↓
Cases	209,347	306	184	-122 ↓	-40% ↓
New Admissions	-	18	22	4 ↑	22% ↑
Deaths	3,654	3	5	2↑	67% ↑
CFR	1.75%				

Table 3: COVID-19 Resurgence thresholds by province as of 10th October, 2021

Province	Number of new cases over 14-days based on the 7-day moving average		Resurgence Threshold
	6th – 19th September	20th September – 3rd October	
Central	29	13	-55%
Copperbelt	89	76	-15%
Eastern	81	22	-73%
Luapula	159	68	-57%
Lusaka	99	46	-53%
Muchinga	140	57	-59%
Northern	140	62	-55%
N/western	253	142	-44%
Southern	57	30	-47%
Western	99	46	-53%
NATIONAL	**1,146**	**563**	**-51%**

Key:

<10% increase or decrease in new confirmed cases: **UNDER CONTROL**

10% to <20% increase in new confirmed cases: **ALERT**

20% and above increase in new confirmed cases: **RESURGENCE**

*A COVID-19 resurgence is defined as an increase in new cases of COVID-19 after a period of lower or no transmission for a period of at least two consecutive weeks. This assumes that surveillance and testing are optimal. Table 3 gives the resurgence thresholds calculated based on the number of new cases over a 14-day period based on the **7-day moving average**. There are three actionable thresholds that should be considered: Under Control, Alert and Response threshold. Each threshold has specific guidance on what actions need to be done, available here. All ten provinces are currently listed as "Under Control" threshold*

3. PUBLIC HEALTH ACTIONS

3.1 CO-ORDINATION

- **Regional/Continental level:**
  - Zambia continues to participate in AU meetings to ensure continued regional and continental trade and strategies to stop transmission of COVID-19. Zambia also hosts the Southern Africa Regional Collaborating Centre of the Africa CDC and has been coordinating the response at regional level. Southern Africa to date has recorded **3,902,711 cases; 110,188 deaths and 3,731,127 recoveries.** Detailed updates on the COVID-19 statistics can be accessed on the Africa CDC website, and the Vaccination Dashboard can be accessed **here**

BACKGROUND

The WHO was alerted of an increase in the number of pneumonia cases of unknown cause detected in Wuhan City, Hubei Province, China. The disease now called Coronavirus Disease 2019 (COVID-19) is caused by a new coronavirus named SARS-CoV-2. The WHO declared the outbreak a PHEIC on 30th January and further declared COVID-19 a pandemic on 12th March. Zambia recorded its first two cases of COVID-19 on 18th March 2020. The first 28 cases in Zambia all had a history of travel to Europe or Asia. Three weeks into the outbreak, cases were noted among people without history of travel but in contact with confirmed cases. By mid-June 2020, cases had been reported in all ten provinces, with Western province being the last to confirm cases of COVID-19. Generalised local person-person transmission is now established throughout the country. To date, Zambia has had two waves of the pandemic, with a third wave currently being experienced.

- **National Level:**
  - Government is implementing a **nine-pronged strategy** in response to the COVID-19 outbreak: Surveillance and case finding; **Case management; Infection prevention and control; Risk communication and community engagement; Laboratory diagnosis; Logistics and supply chain management; Appropriate competent and adequate workforce; Routine essential health services; and Vaccination.**
  - The government continues to enforce measures and interventions to control the spread of COVID-19 countrywide as outlined in the Statutory instruments **SI21** and **SI22 of 2020 on COVID-19 and presidential directives**.
  - The **COVID-19 contingency plan** outlining the country's COVID-19 preparedness and response activities underwent revision in the first week of April, 2021 and was approved by Cabinet.
  - Technical co-ordinating meetings are held with cooperating partners and other stakeholders. The meetings are chaired by the Director General, ZNPHI
- The **Incident Management System (IMS)** continues to meet at ZNPHI (with a Zoom link provided to ensure social distancing) on Tuesdays and Thursdays.
- An update on the enhanced measures to prevent and mitigate the spread of COVID-19 in Zambia was issued to the public on Friday 16th July 2021

3.2 SURVEILLANCE AND CASE MANAGEMENT

- Active surveillance is ongoing in healthcare facilities, at community level, through contact tracing and at points of entry. The revised guidelines for the home management of COVID-19 cases can be accessed here. See ***table 3*** for the surveillance statistics reported in the last 24 hours and ***figure 3*** below for case management trends over the past month.

Table 4: Breakdown of surveillance and case management statistics reported in the last 24hrs by province

PROVINCE	NUMBERS BY PROVINCE							
	NEW CASES	DEATHS	DISCHARGES	NEW ADMISSIONS	ACTIVE	ADMITTED	ON OXYGEN	CRITICAL
CENTRAL	0	0	1	0	4	0	0	0
COPPERBELT	0	1	5	0	39	2	2	0
EASTERN	0	0	0	0	10	0	0	0
LUAPULA	1	0	10	0	26	0	0	0
LUSAKA	4	0	6	2	32	8	7	1
MUCHINGA	2	0	4	0	18	2	1	1
NORTHERN	3	0	6	0	22	3	1	0
N/WESTERN	1	0	22	0	36	3	1	0
SOUTHERN	0	0	4	1	14	2	1	0
WESTERN	0	0	3	0	14	0	0	0
TOTAL	**11 Cases**	**1 Death**	**61 Discharges**	**3 New admissions**	**215 Active**	**20 Admitted**	**13 (65%) On O_2**	**2 (10%) Critical**

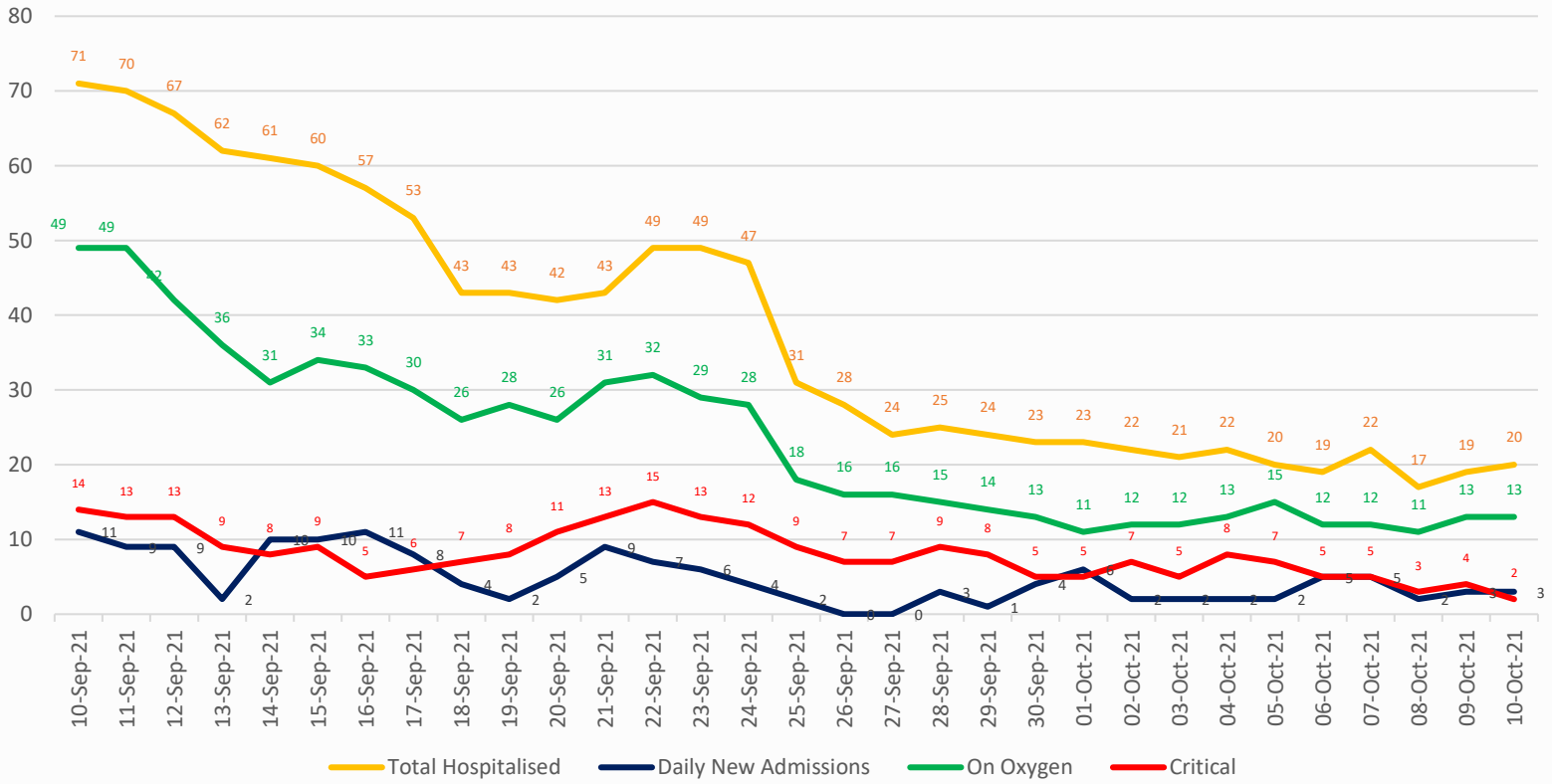


Figure 4: Case management trends over the past month, showing overall admissions, against daily new admissions, patients on Oxygen therapy and those in critical condition

3.3 LABORATORY AND SAMPLE MANAGEMENT

- Zambia is utilising a number of testing platforms, including real-time Polymerase Chain Reaction (RT-PCR), Gene Xpert, Hologic Panther, and Roche Cobas 6800, as well as Standard Q and Panbio Rapid Diagnostic Tests. Available testing centres can be found here**:** **https://arcg.is/15rqeP** and the revised testing strategy can be found here.

- **Previous week analysis (27th Sept-3rd Oct): 39,213** tests were conducted in the previous week (**0.8%** tested positive for SARS-CoV-2) compared to **38,706** tests the week before last (**1.0%** positivity).
- **Current week analysis (4th -10th Oct):** The cumulative number of tests conducted this week was **34,510 (0.5% positivity).** See *figure 6* below for comparative analysis of tests conducted across the provinces
- The cumulative testing coverage is **140,151 per 1,000,000population.**

Table 5: Testing rates per province comparison for the last two weeks

Province	Last week			This Week		
	Total Number of tests done	Number of tests done/ 100,000 Population	Test Positivity Rate	Total Number of tests done	Number of tests done/ 100,000 Population	Test Positivity Rate
Central	2,384	137	0.1%	2,460	142	0.2% ↑
Copperbelt	4,329	162	0.9%	4,033	151	0.9% ~
Eastern	2,629	127	0.2%	2,037	99	0.5% ↑
Luapula	1,957	153	1.5%	2,078	163	1.2% ↓
Lusaka	13,195	393	0.2%	11,507	342	0.3% ↑
Muchinga	2,581	236	1.2%	2,862	261	0.7% ↓
Northern	3,564	234	1.0%	2,390	157	0.5% ↓
N/western	1,547	163	6.3%	1,132	119	2.1% ↓
Southern	5,626	263	0.2%	4,830	226	0.2% ~
Western	1,401	130	1.9%	1,181	110	0.7% ↓
NATIONAL	**39,213**	**219**	0.8%	**34,510** ↓	**193** ↓	**0.5%** ↓

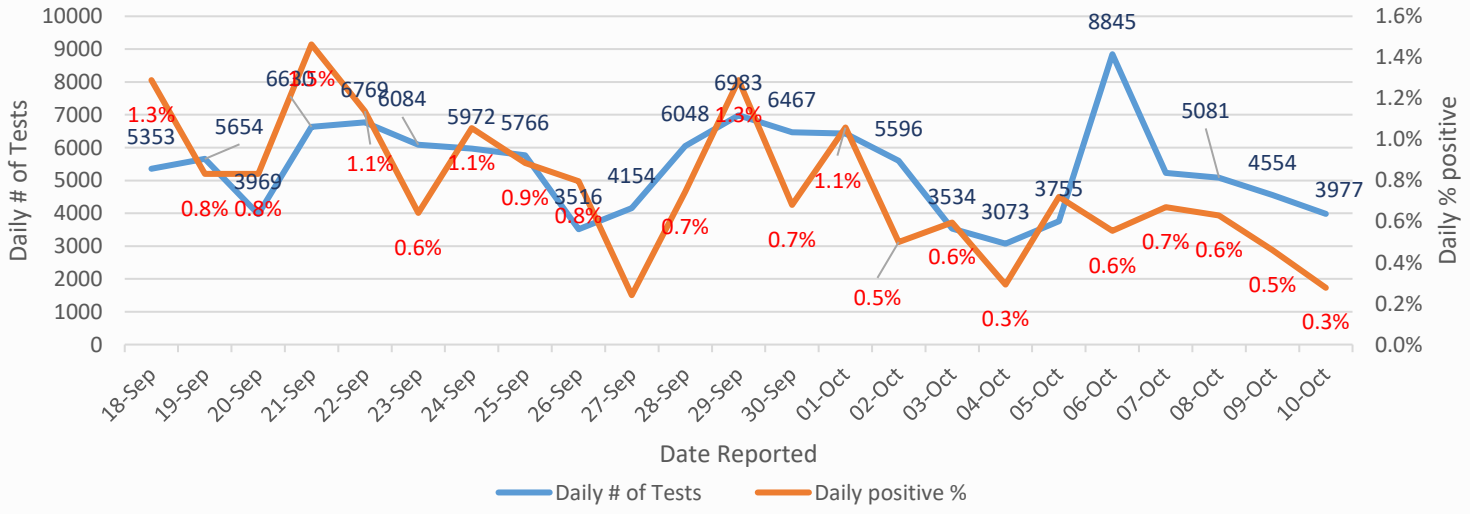


Figure 5: Daily number of tests vs % of positive results recorded (past month)

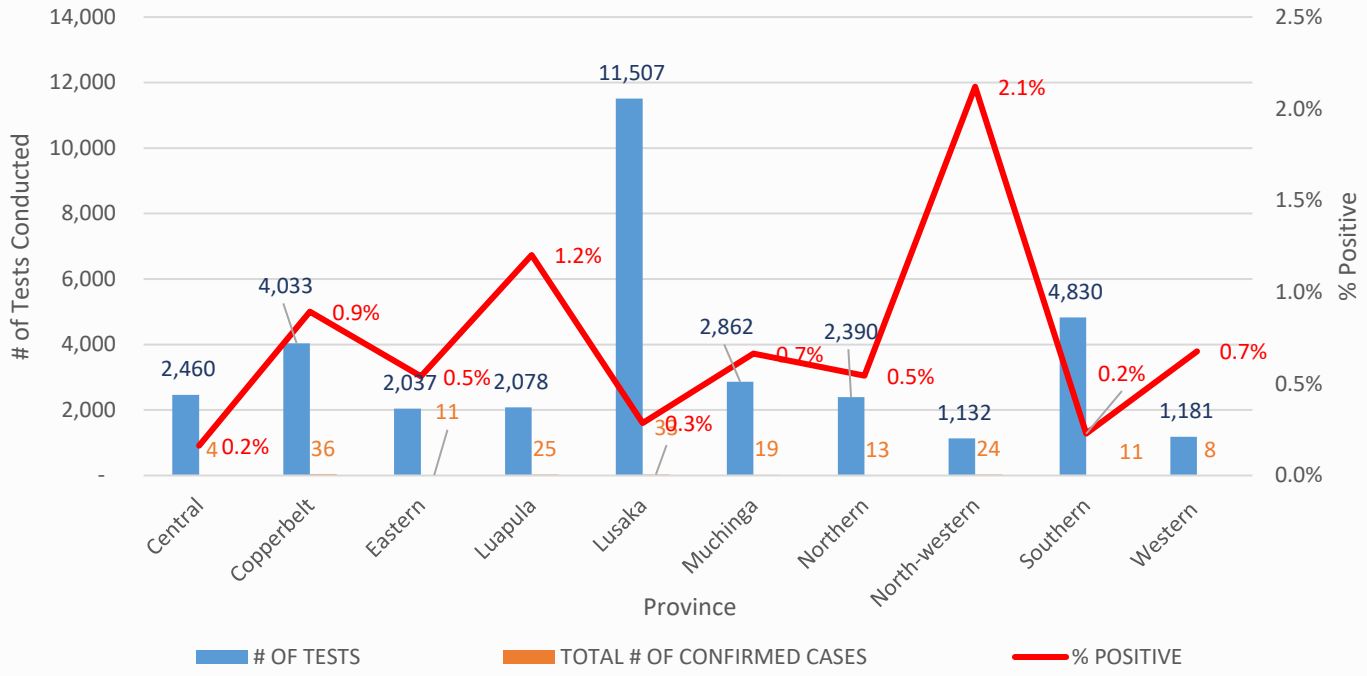


Figure 6: Comparison of number of tests conducted and positives across the provinces – Epi-week 40 (4th – 10th Oct)

3.4 COVID-19 VACCINATION PROGRAMME AND LABORATORY

- The vaccination programme was officially launched on **Wednesday 14th April, 2021** by the past Minister of Health, Hon. Dr. Jonas Chanda. Administration of Dose 1 was paused temporarily on 24th May, 2021 following a decision to ring fence the remaining doses for use as dose 2. Administration of Dose 2 of the AstraZeneca vaccine commenced on **Wednesday, 23rd June 2021; Dose 1** vaccinations resumed on Friday 9th July, 2021.
  - To date, 228,000 doses of AstraZeneca have been received under the COVAX facility and an additional 228,000 doses of AstraZeneca were donated by the Government of France through the COVAX facility (received in the country on 5th July, 2021). A further 151,200 doses of the Johnson and Johnson vaccine arrived in the country today, 21st July, 2021. Administration of the J&J commenced in Lusaka today 23rd July, 2021. On Saturday 7th August, 2021, 100,000 doses of Sinopharm were received, and an additional 129,600 doses of J&J procured through AVAT were received on 6th September, 2021. The most recent consignment received was 124,500 doses of AstraZeneca donated by Norway through the COVAX facility.
- To date, 1,245,300 vaccines doses have been received in country, i.e. 699,700 doses of AstraZeneca, 432,000 doses of J&J, and 113,600 doses of Sinopharm
  - Cumulatively, we have administered:
    - (i) **329,339 Dose 1 and 175,325 Dose 2 (53% of dose 1) AstraZeneca**
    - (ii) **279,023 doses of J&J**
    - (iii) **8,997 Dose 1** and **6,336 Dose 2** Sinopharm (70% of dose 1) [in Lusaka and on the Copperbelt only]
  - In summary, 799,020 (64%) of the received doses have been administered to date, with the wastage rate estimated at 4.6% overall.

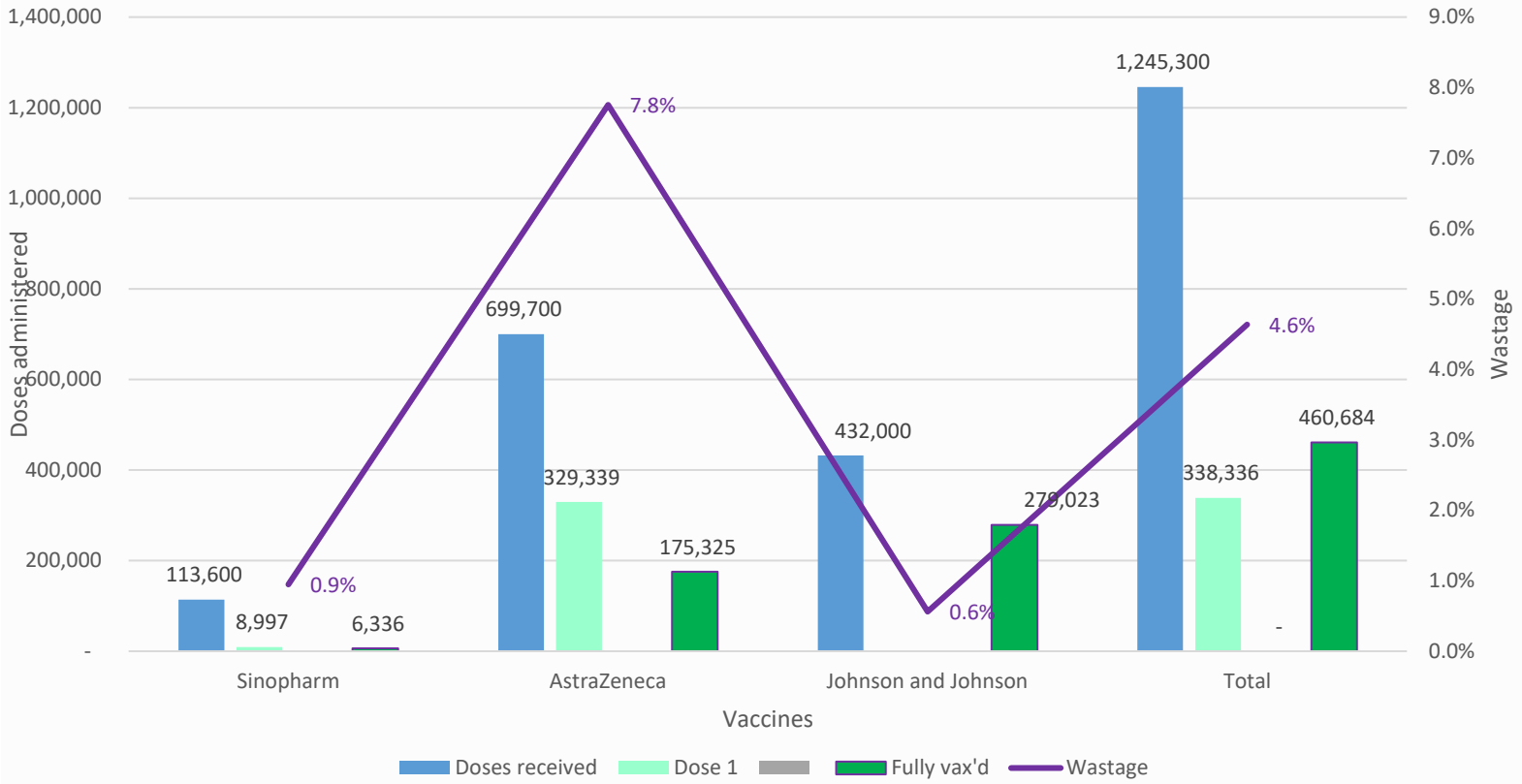


Figure 6: Comparison of vaccines received, doses administered and wastage rates, as of 10th October 2021