

# COVID-19 Weekly Testing Summary

# Week 18 of 2022

This report summarises national laboratory testing for SARS-CoV-2, the virus causing COVID-19, in South Africa. This report is based on data for specimens reported up to 7 May 2022 (Week 18 of 2022).

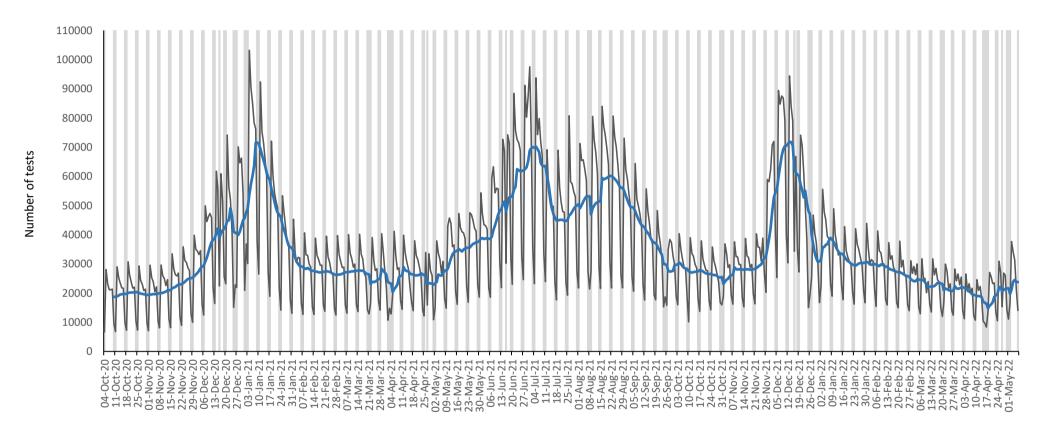
### Highlights:

- The number of tests reported in week 18 of 2022 (166,546: 113,254 PCR and 53,292 antigen tests) was 10.3% higher than the number of tests reported in the previous week.
- In week 18, the testing rate was 277 per 100,000 persons; highest in Gauteng (455 per 100,000 persons) and lowest in Limpopo (40 per 100,000 persons).
- In week 18, the percentage testing positive was 26.6%, which was 4.5% higher than the previous week.
- In week 18, compared to the previous week, the percentage testing positive increased in all provinces, except in Limpopo, where it was unchanged.
- The percentage testing positive in week 18 was highest in KwaZulu-Natal (30.3%), and was between 20-30% in the Western Cape, Gauteng, Northern Cape, Eastern Cape and Free State provinces. The percentage testing positive was between 15-20% in the North West, Mpumalanga and Limpopo.
- In week 18, the percentage testing positive was highest in the 10-14 years age group (34.6%).

#### **Executive Summary:**

- In the period 1 March 2020 through 7 May 2022, 24,433,634 tests for SARS-CoV-2 have been reported nationally: 20,109,182 PCR and 4,324,452 antigen tests.
- The number of tests reported in week 18 of 2022 (n= 166,546: 113,254 PCR and 53,292 antigen tests) was 10.3% higher than the number of tests reported in the previous week.
- Gauteng reported the largest proportion of tests (43.2%), followed by KwaZulu-Natal (22.1%) and Western Cape (12.5%).
- The overall testing rate increased from the previous week (251 per 100,000 persons in week 17 to 277 per 100,000 persons in week 18).
- In week 18, testing rates increased in the Western Cape, Gauteng, KwaZulu-Natal, Mpumalanga and Free State and were similar to the previous week in all other provinces. The testing rate was highest in Gauteng (455 per 100,000 persons) and lowest in Limpopo (40 per 100,000 persons).
- The testing rate in week 18 was highest in the ≥80 years age group (523 per 100,000 persons).
- In week 18, the percentage testing positive was 26.6%, which was 4.5% higher than the previous week (22.1% in week 17 to 26.6% in week 18, P<0.001).
- In the past week, the percentage testing positive increased by 3.1% in the public sector (15.8% in week 17 to 18.9% in week 18, P<0.001) and by 4.7% in the private sector (25.9% in week 17 to 30.6% in week 18, P<0.001).

- In week 18, compared to the previous week, the percentage testing positive increased in all provinces, except in Limpopo, where it was unchanged.
- The percentage testing positive in week 18 was highest in KwaZulu-Natal (30.3%), and was between 20-30% in the Western Cape, Gauteng, Northern Cape, Eastern Cape and Free State provinces. The percentage testing positive was between 15-20% in the North West, Mpumalanga and Limpopo.
- In week 18, health sub-districts showing the highest percentage testing positive were concentrated in the Western Cape (n=12), KwaZulu-Natal (n=5) and Gauteng (n=3).
- In week 18, the percentage testing positive remained the highest in the 10-14 years age group (34.6%), although an increase was not observed in this age group in the past week in comparison to all other age groups.
- Antigen tests accounted for 32.0% (53,292/166,546) of tests reported in week 18, however the number of antigen tests is likely underestimated due to under-reporting and delayed reporting of antigen tests.
- In week 18 the public sector accounted for 44.0% (23,443/53,292) of antigen tests reported. An increase in the number of antigen tests reported was observed in KwaZulu-Natal in the past week.
- The mean turnaround time for PCR tests reported in week 18 was 0.7 days; 1.3 days in the public sector and 0.5 days in the private sector. Turnaround times for public sector PCR tests decreased in Mpumalanga and were <2 days in all provinces except in Mpumalanga (2.2 days).
- The mean turnaround time for antigen tests reported in week 18 was 12.2 days in the public sector and 0.1 days in the private sector.



# Date of specimen collection

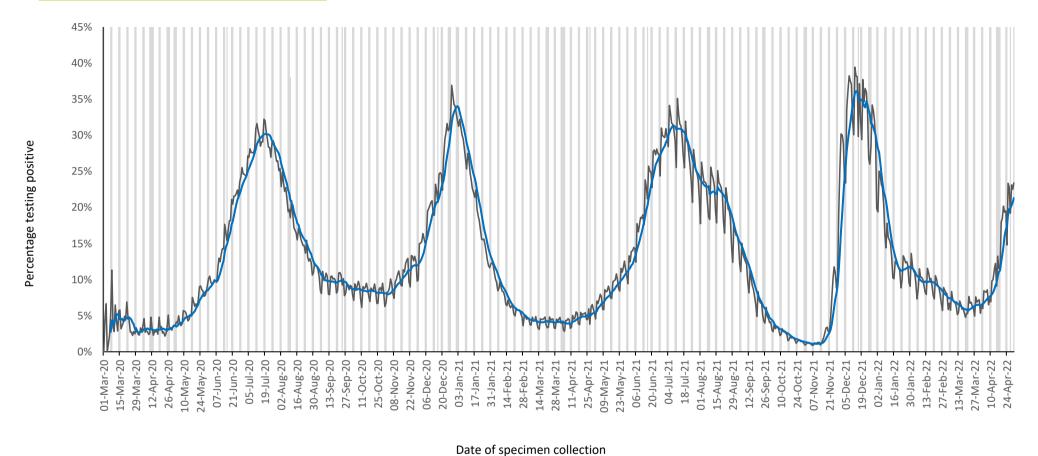
**Figure 1.** Number of SARS-CoV-2 tests reported by date of specimen collection, South Africa, 4 October 2020 – 7 May 2022. Blue line shows the 7-day moving average of the number of tests reported. Grey bars highlight weekend days and public holidays



**Table 1.** Weekly number of SARS-CoV-2 tests and positive tests reported, South Africa, 3 January 2021 – 7 May 2022

Week	Week	No. of tests	No. of positive	Percentage testing	
number	beginning	n (%)	tests	positive (%)	
1	03-Jan-21	501386 (2.1)	151074	30.1	
2	10-Jan-21	418299 (1.7)	104825	25.1	
3	17-Jan-21	327534 (1.3)	63283	19.3	
4	24-Jan-21	249623 (1.0)	34652	13.9	
5	31-Jan-21	203797 (0.8)	22380	11.0	
6	07-Feb-21	193340 (0.8)	16476	8.5	
7	14-Feb-21	190714 (0.8)	12192	6.4	
8	21-Feb-21	184731 (0.8)	10390	5.6	
9	28-Feb-21	189730 (0.8)	8695	4.6	
10	07-Mar-21	193454 (0.8)	8341	4.3	
11	14-Mar-21	185527 (0.8)	8156	4.4	
12	21-Mar-21	173275 (0.7)	7356	4.2	
13	28-Mar-21	163975 (0.7)	7063	4.3	
14	04-Apr-21	180875 (0.7)	7292	4.0	
15	11-Apr-21	185350 (0.8)	8847	4.8	
16	18-Apr-21	184922 (0.8)	9471	5.1	
17	25-Apr-21	160025 (0.7)	9183	5.7	
18	02-May-21	193975 (0.8)	13464	6.9	
19	09-May-21	240329 (1.0)	19939	8.3	
20	16-May-21	248497 (1.0)	24212	9.7	
21	23-May-21	262638 (1.1)	29778	11.3	
22	30-May-21	270309 (1.1)	36106	13.4	
23	06-Jun-21	337915 (1.4)	59453	17.6	
24	13-Jun-21	370989 (1.5)	88086	23.7	
25	20-Jun-21	432622 (1.8)	118654	27.4	
26	27-Jun-21	490248 (2.0)	146638	29.9	
27	04-Jul-21	444060 (1.8)	141464	31.9	
28	11-Jul-21	320773 (1.3)	100958	31.5	
29	18-Jul-21	313228 (1.3)	88447	28.2	
30	25-Jul-21	350612 (1.4)	88359	25.2	
31	01-Aug-21	372290 (1.5)	88130	23.7	
32	08-Aug-21	359577 (1.5)	83381	23.2	
33	15-Aug-21	420884 (1.7)	95389	22.7	
34	22-Aug-21	392614 (1.6)	78198	19.9	
35	29-Aug-21	346103 (1.4)	55095	15.9	
36	05-Sep-21	300484 (1.2)	38857	12.9	
37	12-Sep-21	260671 (1.1)	24018	9.2	

38					
40       03-Oct-21       197884 (0.8)       6450       3.3         41       10-Oct-21       191678 (0.8)       5044       2.6         42       17-Oct-21       185549 (0.8)       3412       1.8         43       24-Oct-21       177125 (0.7)       2566       1.4         44       31-Oct-21       182841 (0.7)       2106       1.2         45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       20368 (0.9)	38	19-Sep-21	209085 (0.9)	14011	6.7
41       10-Oct-21       191678 (0.8)       5044       2.6         42       17-Oct-21       185549 (0.8)       3412       1.8         43       24-Oct-21       177125 (0.7)       2566       1.4         44       31-Oct-21       182841 (0.7)       2106       1.2         45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         51       19-Dec-21       216497 (0.9)       66060       30.5         52       20-Dec-21       216497 (0.9)       66060       30.5         53       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       21649 (0.9)		•	• •		
42       17-Oct-21       185549 (0.8)       3412       1.8         43       24-Oct-21       177125 (0.7)       2566       1.4         44       31-Oct-21       182841 (0.7)       2106       1.2         45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         51       19-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)	40	03-Oct-21	197884 (0.8)	6450	3.3
43       24-Oct-21       177125 (0.7)       2566       1.4         44       31-Oct-21       182841 (0.7)       2106       1.2         45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)		10-Oct-21	• •		2.6
44       31-Oct-21       182841 (0.7)       2106       1.2         45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)	42	17-Oct-21	185549 (0.8)	3412	1.8
45       07-Nov-21       196632 (0.8)       2321       1.2         46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)	43	24-Oct-21		2566	1.4
46       14-Nov-21       197148 (0.8)       4810       2.4         47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)	44	31-Oct-21	182841 (0.7)	2106	1.2
47       21-Nov-21       224581 (0.9)       18974       8.4         48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6) <th>45</th> <th>07-Nov-21</th> <th>196632 (0.8)</th> <th>2321</th> <th>1.2</th>	45	07-Nov-21	196632 (0.8)	2321	1.2
48       28-Nov-21       381909 (1.6)       98393       25.8         49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7) <th>46</th> <th>14-Nov-21</th> <th>197148 (0.8)</th> <th>4810</th> <th>2.4</th>	46	14-Nov-21	197148 (0.8)	4810	2.4
49       05-Dec-21       493039 (2.0)       175044       35.5         50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       135264 (0.6)	47	21-Nov-21	224581 (0.9)	18974	8.4
50       12-Dec-21       424297 (1.7)       154863       36.5         51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       135264 (0.6)	48	28-Nov-21	381909 (1.6)	98393	25.8
51       19-Dec-21       337012 (1.4)       117632       34.9         52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)	49	05-Dec-21	493039 (2.0)	175044	35.5
52       20-Dec-21       216497 (0.9)       66060       30.5         1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       134694 (0.6)       <	50	12-Dec-21	424297 (1.7)	154863	36.5
1       02-Jan-22       272453 (1.1)       61093       22.4         2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       <	<b>51</b>	19-Dec-21	337012 (1.4)	117632	34.9
2       09-Jan-22       234288 (1.0)       35117       15.0         3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)	52	20-Dec-21	216497 (0.9)	66060	30.5
3       16-Jan-22       208304 (0.9)       24028       11.5         4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)	1	02-Jan-22	272453 (1.1)	61093	22.4
4       23-Jan-22       212442 (0.9)       25796       12.1         5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	2	09-Jan-22	234288 (1.0)	35117	15.0
5       24-Jan-22       209865 (0.9)       22936       10.9         6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	3	16-Jan-22	208304 (0.9)	24028	11.5
6       06-Feb-22       203017 (0.8)       20391       10.0         7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	4	23-Jan-22	212442 (0.9)	25796	12.1
7       13-Feb-22       191041 (0.8)       19069       10.0         8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	5	24-Jan-22	209865 (0.9)	22936	10.9
8       14-Feb-22       180631 (0.7)       16280       9.0         9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	6	06-Feb-22	203017 (0.8)	20391	10.0
9       27-Feb-22       172457 (0.7)       13123       7.6         10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	7	13-Feb-22	191041 (0.8)	19069	10.0
10       06-Mar-22       155185 (0.6)       10665       6.9         11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	8	14-Feb-22	180631 (0.7)	16280	9.0
11       13-Mar-22       163365 (0.7)       9860       6.0         12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	9	27-Feb-22	172457 (0.7)	13123	7.6
12       20-Mar-22       145071 (0.6)       9439       6.5         13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	10	06-Mar-22	155185 (0.6)	10665	6.9
13       27-Mar-22       153778 (0.6)       10215       6.6         14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	11	13-Mar-22	163365 (0.7)	9860	6.0
14       03-Apr-22       135264 (0.6)       10556       7.8         15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	12	20-Mar-22	145071 (0.6)	9439	6.5
15       10-Apr-22       116766 (0.5)       12236       10.5         16       17-Apr-22       134694 (0.6)       23959       17.8         17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	13	27-Mar-22	153778 (0.6)	10215	6.6
1617-Apr-22134694 (0.6)2395917.81724-Apr-22150938 (0.6)3328622.11801-May-22166546 (0.7)4433426.6	14	03-Apr-22	135264 (0.6)	10556	7.8
17       24-Apr-22       150938 (0.6)       33286       22.1         18       01-May-22       166546 (0.7)       44334       26.6	15	10-Apr-22	116766 (0.5)	12236	10.5
<b>18</b> 01-May-22 166546 (0.7) 44334 26.6	16	17-Apr-22	134694 (0.6)	23959	17.8
•	17	24-Apr-22	150938 (0.6)	33286	22.1
Total 24,433,634 (100.0) 4,176,806	18	01-May-22	166546 (0.7)	44334	26.6
		Total	24,433,634 (100.0)	4,176,806	



**Figure 2.** Percentage of tests positive for SARS-CoV-2 by date of specimen collection, South Africa, 1 March 2020 – 7 May 2022. Blue line shows the 7-day moving average of the percentage testing positive. Grey bars highlight weekend days and public holidays.



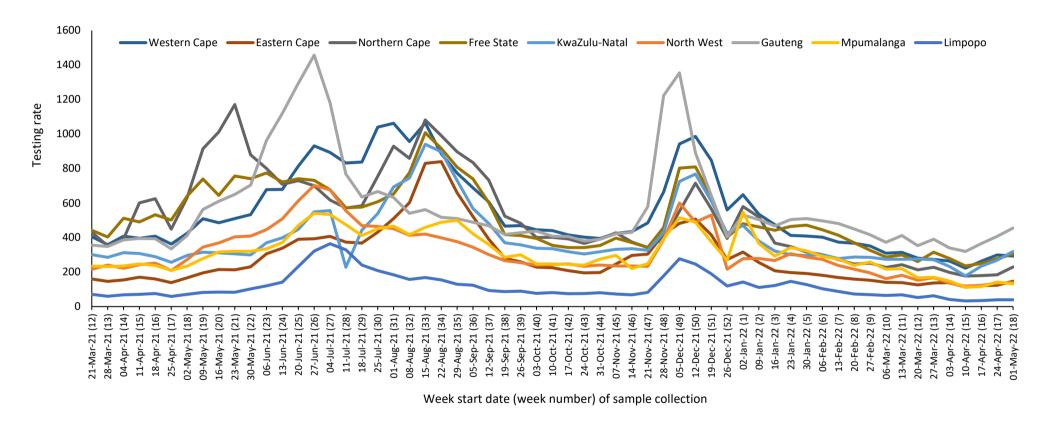


Figure 3. Testing rate per 100,000 persons by province and week of specimen collection, South Africa, 21 March 2021 – 7 May 2022

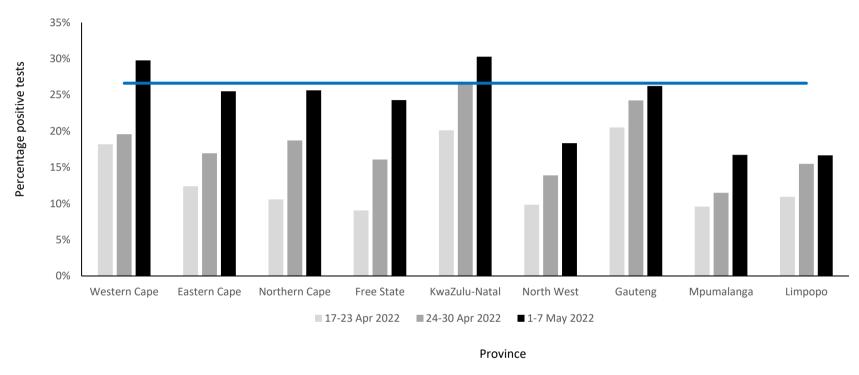


Table 2. Weekly number of tests and positive tests reported by province, South Africa, 17 April – 7 May 2022

		17-2	3 Apr 2022	24-3	0 Apr 2022		1-7 May 202	22	Change in percentage positive
Province	Population <sup>a</sup>	No. of tests	No. positive tests (%)	No. of tests	No. positive tests (%)	No. of tests	No. positive tests (%)	Testing rate per 100000	from previous week <sup>b</sup>
Western Cape	7113776	18734	3406 (18.2)	21272	4163 (19.6)	20793	6191 (29.8)	292	10.2%
Eastern Cape	6676590	8065	999 (12.4)	8250	1398 (16.9)	9805	2501 (25.5)	147	8.6%
Northern Cape	1303047	2343	248 (10.6)	2398	449 (18.7)	2996	768 (25.6)	230	6.9%
Free State	2932441	7339	665 (9.1)	8138	1309 (16.1)	8900	2161 (24.3)	304	8.2%
KwaZulu-Natal	11513575	26924	5415 (20.1)	30929	8298 (26.8)	36804	11144 (30.3)	320	3.5%
North West	4122854	5069	499 (9.8)	5595	777 (13.9)	5702	1046 (18.3)	138	4.5%
Gauteng	15810388	57694	11828 (20.5)	64313	15593 (24.2)	71868	18849 (26.2)	455	2.0%
Mpumalanga	4743584	5473	524 (9.6)	6739	774 (11.5)	6222	1041 (16.7)	131	5.2%
Limpopo	5926724	2076	227 (10.9)	2307	357 (15.5)	2354	392 (16.7)	40	1.2%
Unknown		977	148 (15.1)	997	168 (16.9)	1102	241 (21.9)		
Total	60142978	134694	23959 (17.8)	150938	33286 (22.1)	166546	44334 (26.6)	277	4.5%

<sup>&</sup>lt;sup>a</sup> 2021 Mid-year population Statistics SA

<sup>&</sup>lt;sup>b</sup> Current week compared to previous week



**Figure 4.** Weekly percentage testing positive by province, South Africa, 17 April – 7 May 2022. The horizontal blue line shows the national mean for week 18, beginning 1 May 2022

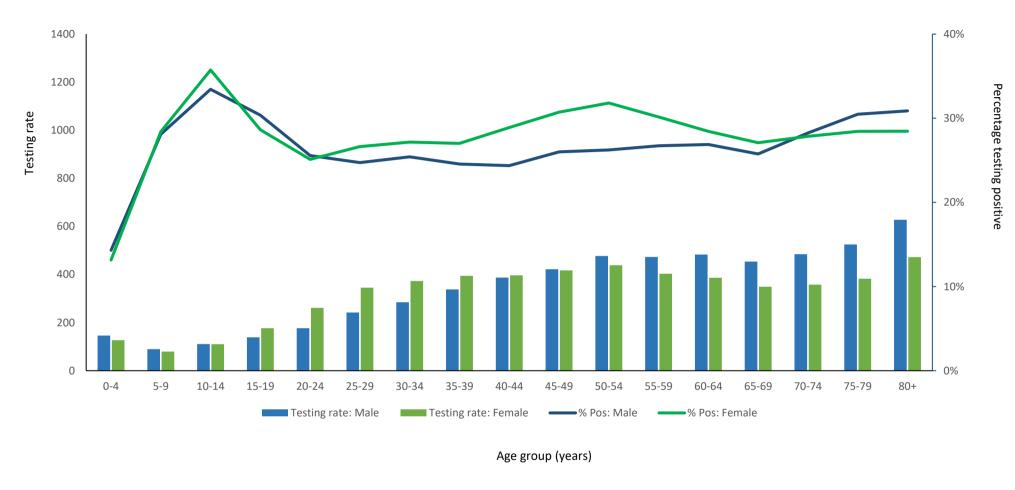
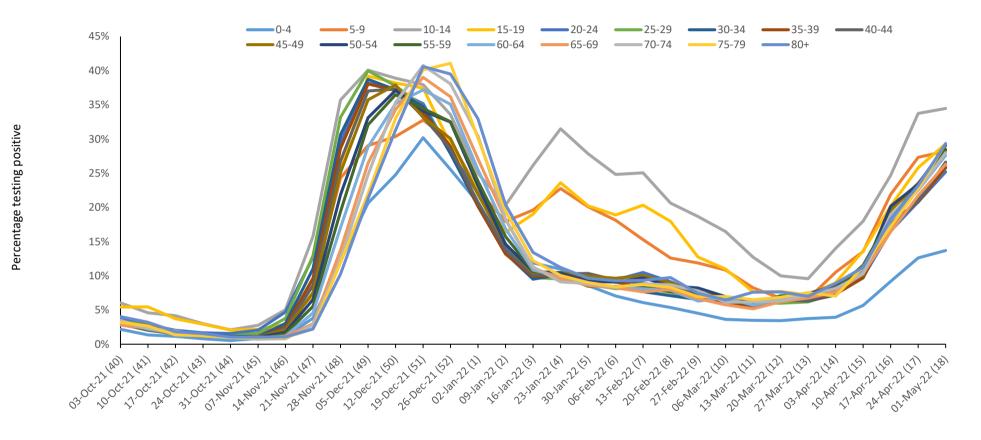


Figure 5. Testing rates per 100,000 persons and percentage testing positive by age group and sex, South Africa, week 18, 1-7 May 2022



Week start date (week number) of sample collection

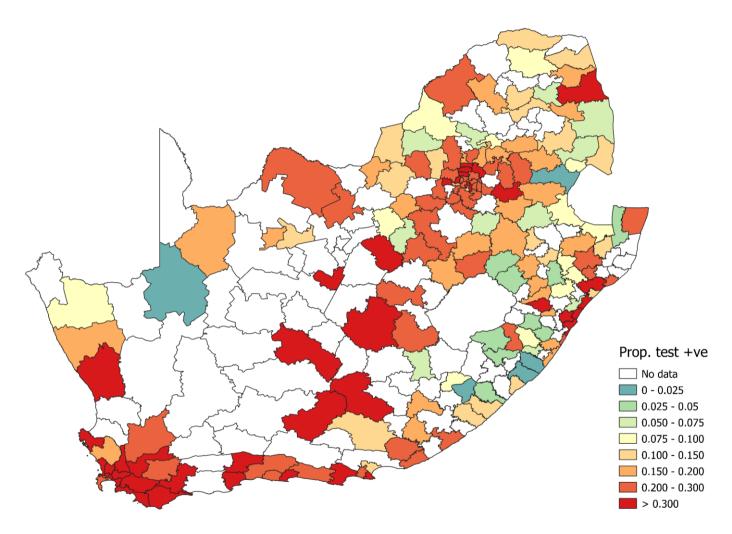
Figure 6. Percentage testing positive by age group and week of specimen collection, South Africa, 3 October 2021 – 7 May 2022



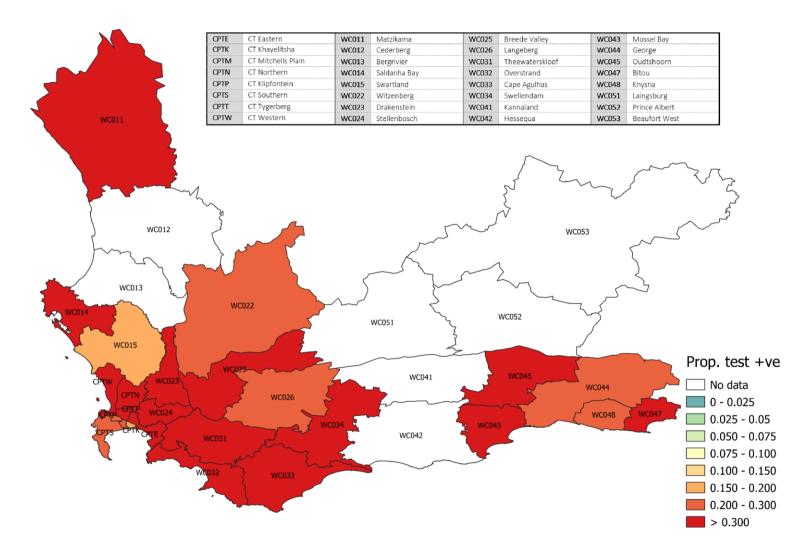
**Table 3.** Health sub-districts with the highest proportion testing positive based on public and private sector data for the week of 1-7 May 2022

Health district or sub-district	Province	PTP (95% CI)	Previous week
Randfontein	Gauteng	0.613 (0.586-0.640)	0.710 (0.684-0.736)
Tswelopele	Free State	0.431 (0.355-0.508)	0.222 (0.143-0.302)
Drakenstein	Western Cape	0.424 (0.386-0.462)	0.262 (0.226-0.298)
Oudtshoorn	Western Cape	0.411 (0.347-0.475)	0.445 (0.363-0.527)
CT Northern	Western Cape	0.402 (0.377-0.427)	0.329 (0.303-0.354)
Saldanha Bay	Western Cape	0.399 (0.350-0.448)	0.342 (0.293-0.392)
Camdeboo	Eastern Cape	0.394 (0.293-0.495)	0.116 (0.035-0.198)
eThekwini North	KwaZulu-Natal	0.382 (0.368-0.396)	0.397 (0.382-0.413)
CT Tygerberg	Western Cape	0.379 (0.359-0.399)	0.257 (0.238-0.275)
Matzikama	Western Cape	0.378 (0.301-0.454)	0.190 (0.113-0.268)
Inxuba Yethemba	Eastern Cape	0.376 (0.280-0.471)	0.236 (0.093-0.379)
uMlalazi	KwaZulu-Natal	0.371 (0.234-0.508)	0.084 (0.000-0.195)
Tshwane 4	Gauteng	0.369 (0.346-0.392)	0.351 (0.327-0.375)
CT Eastern	Western Cape	0.365 (0.339-0.392)	0.293 (0.265-0.321)
Bitou	Western Cape	0.360 (0.261-0.459)	0.213 (0.131-0.294)
Johannesburg C	Gauteng	0.358 (0.344-0.371)	0.341 (0.326-0.356)
Kopanong	Free State	0.356 (0.241-0.472)	0.183 (0.084-0.281)
eThekwini West	KwaZulu-Natal	0.356 (0.339-0.372)	0.356 (0.337-0.375)
KwaDukuza	KwaZulu-Natal	0.355 (0.332-0.379)	0.327 (0.302-0.352)
Cape Agulhas	Western Cape	0.354 (0.217-0.492)	0.593 (0.444-0.742)
Breede Valley	Western Cape	0.351 (0.301-0.401)	0.271 (0.222-0.320)
uMngeni	KwaZulu-Natal	0.348 (0.307-0.389)	0.321 (0.275-0.368)
Swellendam	Western Cape	0.347 (0.254-0.441)	0.364 (0.238-0.490)
CT Western	Western Cape	0.335 (0.320-0.350)	0.258 (0.243-0.272)
Emthanjeni	Northern Cape	0.334 (0.206-0.461)	0.072 (0.000-0.168)

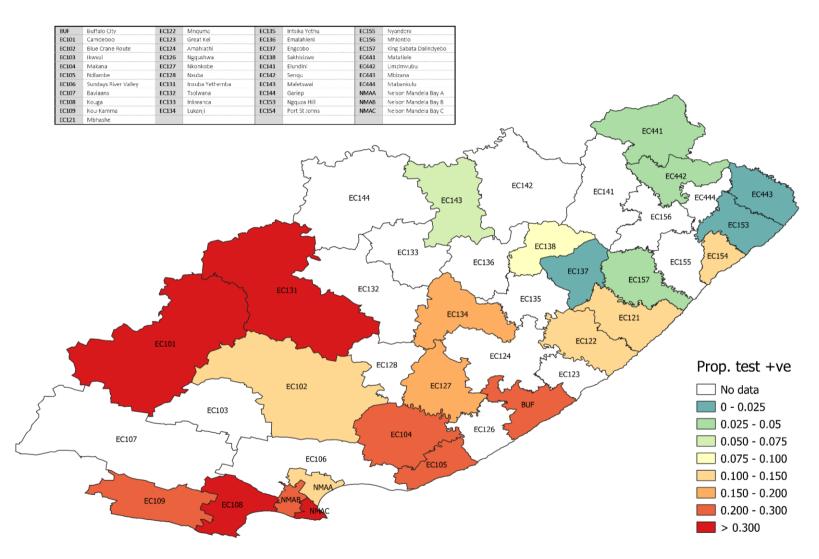
95% CI: 95% confidence interval; PTP: adjusted positive test proportion; Elements marked in red have current week proportions testing positive that are higher than and CIs that do not overlap with the previous week proportions and CIs. Elements marked in blue have current week proportions testing positive that are lower than and CIs that do not overlap with the previous week proportions and CIs



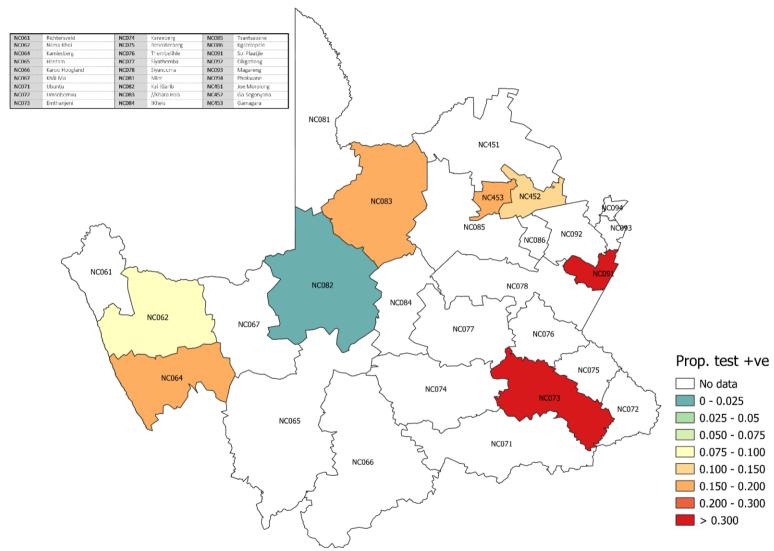
**Figure 7.** Proportion testing positive by health sub-district in South Africa for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



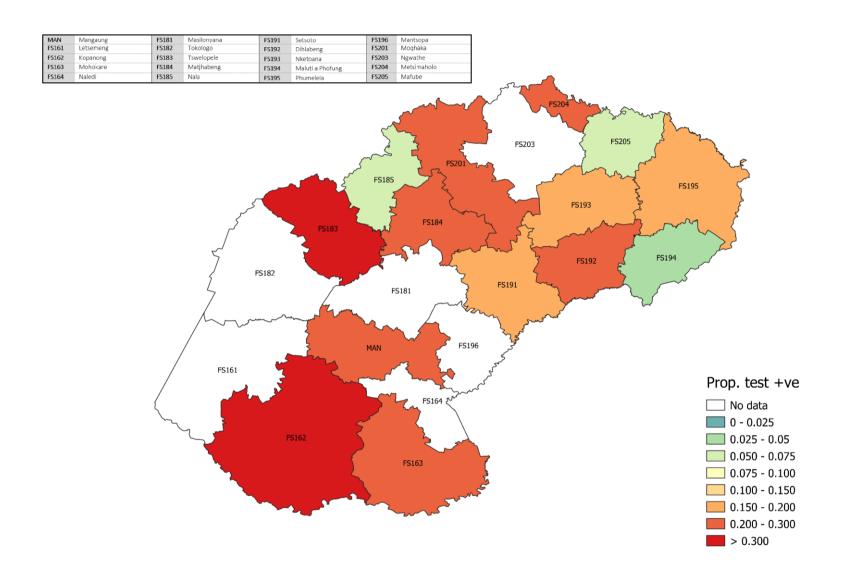
**Figure 8.** Proportion testing positive by health sub-district in the Western Cape Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%



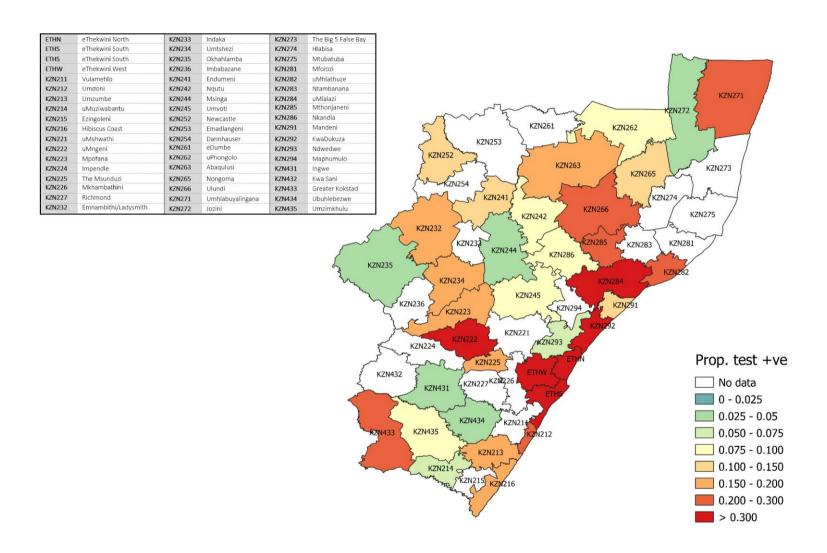
**Figure 9.** Proportion testing positive by health sub-district in the Eastern Cape Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



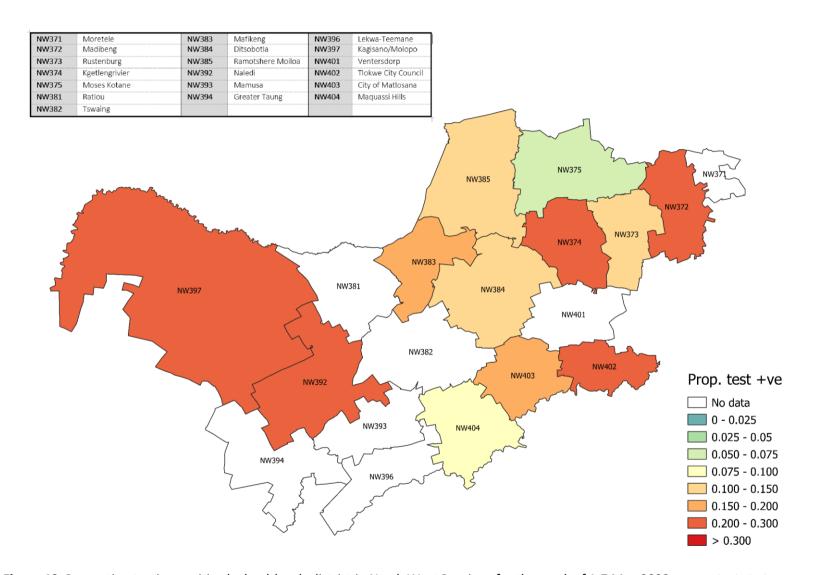
**Figure 10.** Proportion testing positive by health sub-district in Northern Cape Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



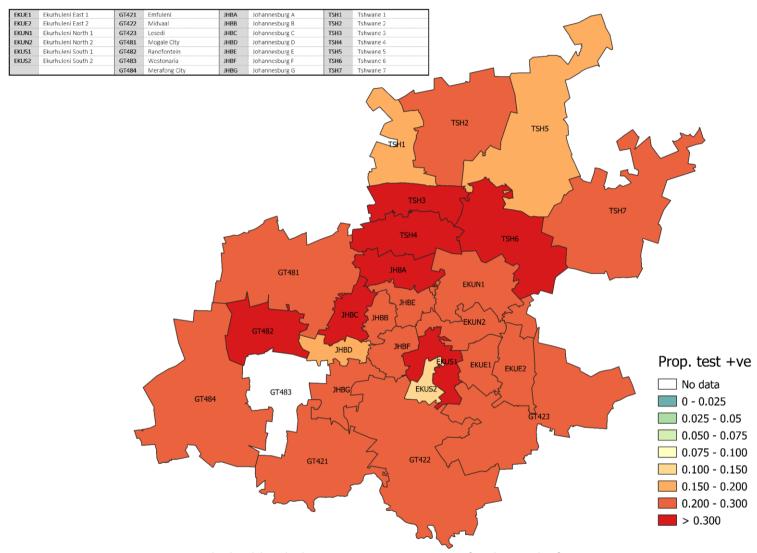
**Figure 11.** Proportion testing positive by health sub-district in Free State Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



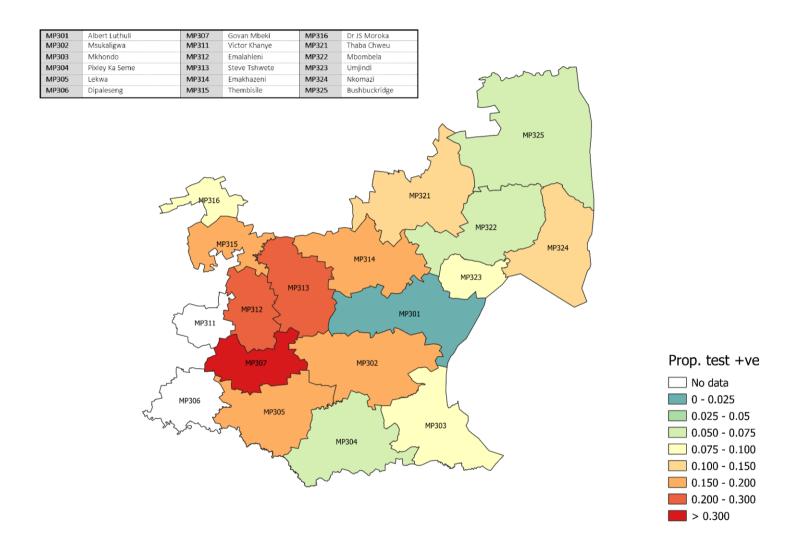
**Figure 12.** Proportion testing positive by health sub-district in KwaZulu-Natal Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



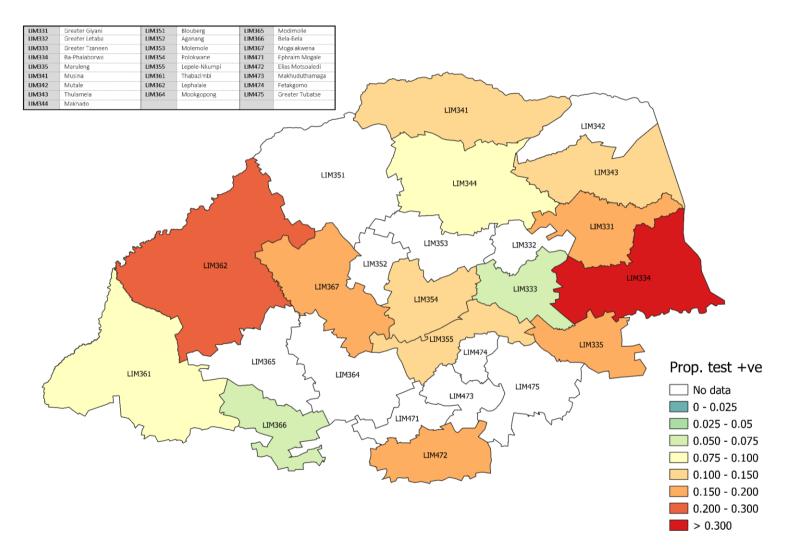
**Figure 13.** Proportion testing positive by health sub-district in North West Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



**Figure 14.** Proportion testing positive by health sub-district in Gauteng Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



**Figure 15.** Proportion testing positive by health sub-district in Mpumalanga Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.



**Figure 16.** Proportion testing positive by health sub-district in Limpopo Province for the week of 1-7 May 2022. Areas shaded white represent districts in which either (i) no tests were reported (ii) all tests were negative or (iii) the confidence interval exceeded 30%.

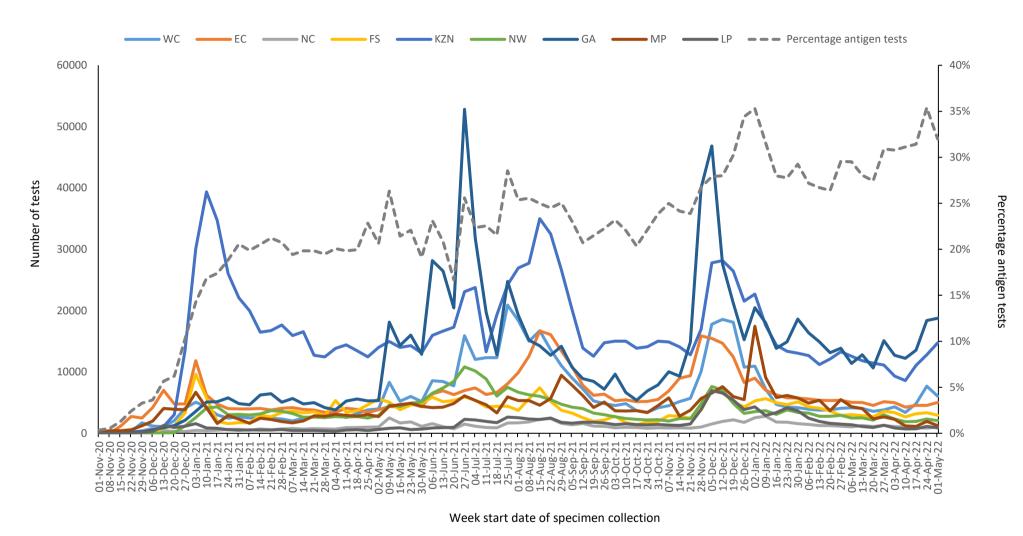
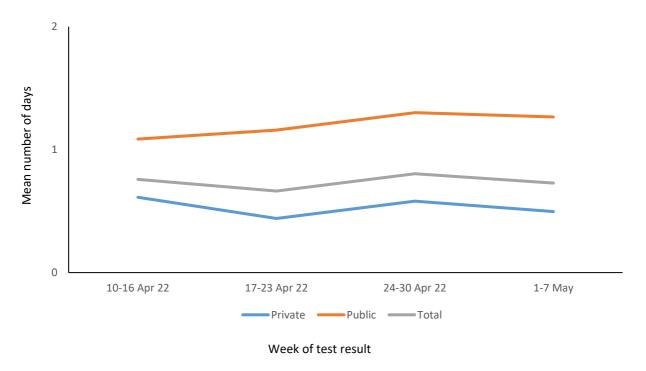
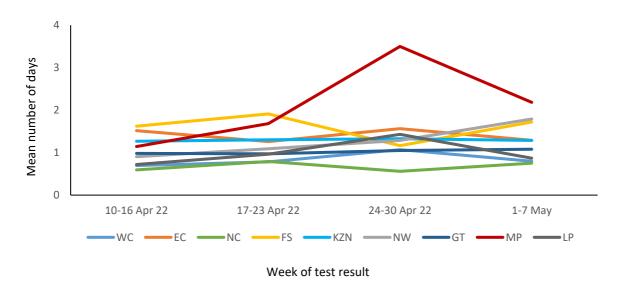


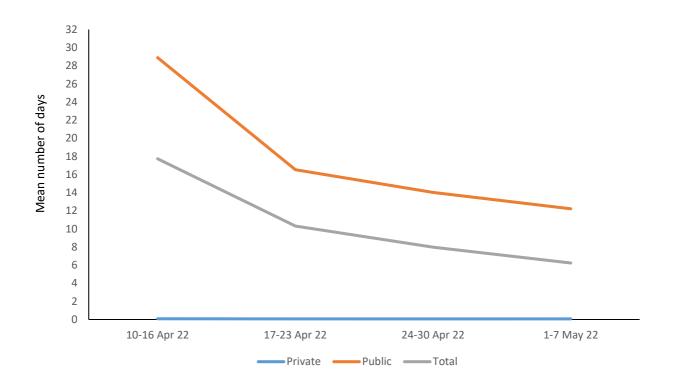
Figure 17. Number of antigen tests by province and overall percentage antigen tests, South Africa, 1 November 2020 – 7 May 2022. WC Western Cape; EC Eastern Cape; FS Free State; KZN KwaZulu-Natal; GA Gauteng; NC Northern Cape; NW North West; MP Mpumalanga; LP Limpopo



**Figure 18.** Mean number of days between date of specimen collection and date of test result for PCR tests by week of test result, South Africa, 10 April – 7 May 2022.



**Figure 19.** Mean number of days between date of specimen collection and date of test result for PCR tests in the public sector by week of test result and province, South Africa, 10 April – 7 May 2022. WC Western Cape; EC Eastern Cape; FS Free State; KZN KwaZulu-Natal; GT Gauteng; NC Northern Cape; NW North West; MP Mpumalanga; LP Limpopo



Week of test result

**Figure 20.** Mean number of days between date of specimen collection and date of test result for antigen tests by week of test result, South Africa, 10 April – 7 May 2022.

## Methods

Testing for SARS-CoV-2 began on 28 January 2020 at the NICD and after the first case was confirmed on 5th March 2020, testing was expanded to a larger network of private and NHLS laboratories. Laboratory testing was conducted for people meeting the case definition for persons under investigation (PUI). This definition was updated several times over the reporting period but at different times included (i) symptomatic individuals seeking testing, (ii) hospitalised individuals for whom testing was done, (iii) individuals in high-risk occupations, (iv) individuals in outbreak settings, and (v) individuals identified through community screening and testing (CST) programmes which were implemented in April 2020 and was discontinued from the week beginning 17th May. CST was implemented differently in different provinces, and ranged from mass screening approaches (including asymptomatic individuals) to screening of individuals in contact with a confirmed case to targeted testing of clusters of cases. Respiratory specimens were submitted to testing laboratories. Testing was performed using reverse transcriptase real-time PCR, which detects SARS-CoV-2 viral genetic material. Laboratories used any one of several in-house and commercial PCR assays to test for the presence of SARS-CoV-2 RNA. Testing for SARS-CoV-2 using rapid antigen-based tests was implemented towards the end of October 2020. Results of reported rapid antigen-based tests are included in this report, however data are incomplete and efforts are ongoing to improve data completeness.

Test results were automatically fed into a data warehouse after result authorisation. We excluded specimens collected outside South Africa and duplicate entries of the same test for an individual. From week 49 of 2020 onwards, test data were reported from the Notifiable Medical Conditions Surveillance System (NMCSS). Date of specimen receipt in the laboratory was used when date of specimen collection was missing. Proportion testing positive (PTP) was calculated as the number of positive tests/total number of tests and presented as percentage by multiplying with 100. Testing rates were calculated using mid-year population estimates from Statistics South Africa and expressed as tests per 100,000 (2019 estimates were used from week 10 – 40 of 2020, 2020 estimates were used from week 41 2021 to week 1 of 2022 and 2021 estimates were used from week 2 of 2022 and onwards). Laboratory turnaround times were calculated as the mean number of days between specimen collection and reporting of the result. Categorical variables were compared using the chisquared test, with a P-value<0.05 considered statistically significant.

Health district and sub-district (in the metros) level results were mapped based on geo-locatable public (approximately 95% of public sector facilities in the country) and private (approximately 76% of private testing facilities) sector testing facilities. Estimates of overall prevalence were derived using regression techniques. Estimates were adjusted to produce district-specific positive test prevalences based on the national average age and sex profile of testing for that week. This adjustment allows more accurate comparison of the proportion testing positive across districts. Districts with fewer than 20 tests reported during the week have been excluded from the analysis.

#### Limitations

- A backlog in testing of samples by laboratories affects the reported number of tests. As a result, numbers tested during this period may change in subsequent reports.
- If higher-priority specimens were tested preferentially this would likely result in an inflated proportion testing positive.
- Different and changing testing strategies (targeted vs. mass testing, PCR vs. antigen-based tests
  or prioritisation of severe or at-risk cases during epidemic waves) used by different provinces
  makes percentage testing positive and number of reported tests difficult to interpret and
  compare.
- Health district and sub-district level were mapped based on the testing facility and not place of residence.

- Patient admission status was categorised based on the reported patient facility and may not reflect whether the patient was actually admitted to hospital.
- Antigen tests may be underestimated as they are used in a number of different settings and results may not be reported.