

COVID-19 WEEKLY SURVEILLANCE IN NSW

EPIDEMIOLOGICAL WEEK 20, ENDING 22 May 2021

Published 27 May 2021

Overview

Table 1. Number and proportion of COVID-19 cases in NSW by likely source of infection to week ending 22 May 2021

	202	20		2021					
	Jan–Jun	July-Dec	year to date 1 Jan – 22 May	last 4 weeks 24 April – 22 May	last 7 days 16 –22 May				
Overseas acquired	1,893 (59%)	714 (46%)	588(92%)	145 (97%)	12 (100%)				
Interstate acquired	67 (2%)	23 (2%)	0	0	0				
Locally acquired	1,237 (39%)	808 (52%)	51 (8%)	2 (3%)	0				
Total	3,197 (100%)	1,545 (100%)	639 (100%)	147 (100%)	12 (100%)				
Deaths	52	4	0	0	0				

Summary for the week ending 22 May 2021

- There were no locally acquired cases reported in the week ending 22 May 2021.
- The number of cases reported in overseas returned travellers decreased this week (down 52%) compared to the previous week.
- In the four weeks ending 22 May 2021, 59% (85/145) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351, B.1.617 and P1).
- In the four weeks ending 22 May 2021, nine (2%) overseas acquired COVID-19 cases self-reported being fully vaccinated prior
 to arrival in Australia.
- Testing rates decreased compared to the previous week in most LHDs. Testing rates increased slightly in Hunter New England,
 Mid North Coast and Southern NSW LHDs.
- The NSW Sewage Surveillance Program reported three detections taken from the sewage network at Homebush (within the Malabar catchment) and Botany (within the Malabar catchment) and from the Bondi treatment plant. All contain quarantine hotels where active cases are known to have stayed. People can continue to shed fragments of the virus for several weeks.

Indicators of effective prevention measure for COVID-19 in NSW for the week ending 22 May 2021

In the week ending 22 May, there were no locally acquired cases.

COVID-19 Vaccination program

- Australian Government Department of Health reports the number of vaccine doses administered across Australia <u>Daily COVID-19 vaccine rollout numbers</u>
- Therapeutic Goods Administration (TGA) report data on received reports of suspected side effects (also known as adverse events) and other safety information from Australia and overseas Weekly COVID-19 vaccine safety report
- AusVaxSafety is conducting active vaccine safety surveillance of the vaccines in use. Surveillance data have been
 provided by Vaxtracker, SmartVax and the Victorian Department of Health COVID-19 Vaccine Management System
 based on surveys sent on Day 3 after the vaccination Weekly COVID-19 vaccine safety surveillance report

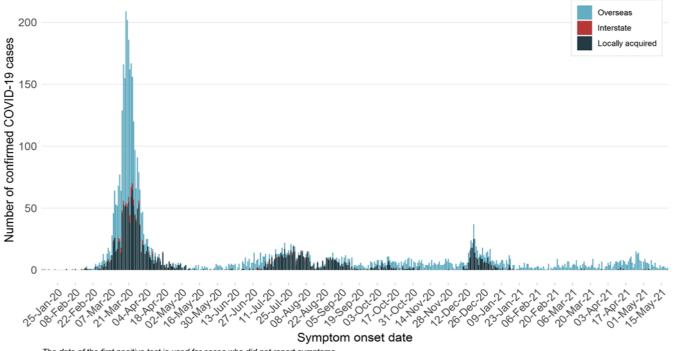
Table of Contents

Section 1: How is the outbreak tracking in NSW?	4
Section 3: Locally acquired COVID-19 transmission in NSW in the last four weeks	8
Section 4: Current COVID-19 clusters in NSW	10
Section 5: COVID-19 in returned travellers	11
Section 6: COVID-19 vaccination status	15
Section 7: COVID-19 in specific populations	16
Section 8: COVID-19 deaths	18
Section 9: COVID-19 testing in NSW	19
Section 10: NSW Sewage Surveillance Program	22
Section 11: Other respiratory infections in NSW	23
Appendix A: COVID-19 PCR tests in NSW by Local Government Area	26
Appendix B: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 16 May 2021	30
Appendix C: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 16 May 2021	31
Appendix D: SARS-CoV-2 testing in sewage samples collected in the previous 10 weeks, week ending 22 May 2021	32
Glossary	37

Section 1: How is the outbreak tracking in NSW?

To understand how the outbreak is tracking we look at how many new cases are reported each day and the number of people being tested. Each bar in the graph below represents the number of new cases based on the date of symptom onset.

Figure 1. COVID-19 cases by likely infection source and illness onset, NSW, from 25 January 2020 to 22 May 2021



The date of the first positive test is used for cases who did not report symptoms.

Interpretation: Between 13 January 2020 and 22 May 2021, there were 5,381 confirmed COVID-19 cases. Of those, 3,195 (59%) were overseas acquired, 90 (2%) were interstate acquired, and 2,096 (39%) were locally acquired.

COVID-19 cases reported in 2020

The epidemiology of COVID-19 in NSW continued to evolve since the first three cases were reported in NSW on 25 January 2020 in people who acquired their infection in China. The first locally acquired COVID-19 case in NSW was reported on 2 March 2020 and by mid-March case numbers had increased rapidly in overseas returned travellers and their contacts and within localised community outbreaks. In NSW, the number of reported daily cases peaked on 27 March 2020 at 213 cases. Public health action and the introduction of a range of stringent control measures, including the closure of international borders, 14-day mandatory quarantine for returned travellers and restrictions of movement within NSW lead to a decline in cases. Community transmission was interrupted by the end of May 2020.

In early July seeding of SARS-CoV-2 into South Western Sydney from an outbreak in Melbourne lead to a second wave of infection. Following intensive public health action community transmission was again interrupted by the end of November 2020.

In December 2020 two new introductions of SARS-CoV-2 caused outbreaks in Sydney's Northern Beaches and Berala in Sydney's West. Community transmission was again interrupted by the end of January 2021.

COVID-19 cases reported in 2021

Figure 2. COVID-19 cases by likely infection source and reporting date, NSW, from 1 January 2021 to 22 May 2021

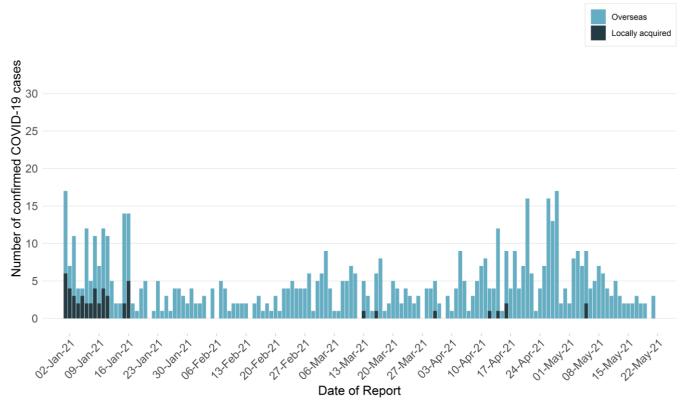


Table 2. COVID-19 cases and tests reported, NSW, from 1 January 2021 to 22 May 2021

	Week ending 22 May	Week ending 15 May	% change	Total 2021
Number of cases	12	25	↓52%	639
Overseas acquired	12	25	↓52%	588
Interstate acquired	0	0	-	0
Locally acquired	0	0	-	51
No epidemiological links to other cases or clusters	0	0	-	44
Number of deaths	0	0	-	7
Number of tests	91,812	101,118	↓9 %	1,803,933

Note: The case numbers reported for previous weeks is based on the most up to date information from public health investigations.

Between 1 January and 22 May 2021, 51 locally acquired COVID-19 cases have been reported in NSW, of these:

- 11 were associated with the Avalon cluster
- o 31 were associated with the Berala cluster
- o Two cases, a guest and a security guard, were associated with a Sydney hotel quarantine cluster in mid-March
- One case acquired their infection from an infectious Queensland resident who was visiting a Byron Bay pub, detected as part of extensive contact tracing in late March
- o Three cases in one family acquired their infection in hotel quarantine in mid-April
- o One person also acquired their infection in hotel quarantine in mid-April, in a different hotel
- Two cases, one a household contact of the other, from South Eastern Sydney acquired their infection from an unknown source in early May.

Interpretation: Since the elimination of local transmission in January, nine locally acquired cases have been identified and linked to five separate incursions of SARS-CoV-2 into NSW. The majority of cases reported in the last four weeks in NSW were overseas acquired (145/147, 97%).

Section 2: Variants of Concern (VoC)

Like other viruses, the SARS-CoV-2 virus that causes COVID-19 acquires mutations over time. Some of these mutations occur in regions that are critical to virus function, such as the spike protein. The spike protein allows the virus to enter human cells, which is why it is the target of many COVID-19 vaccines and part of our own immune response to the virus. Global surveillance is done to monitor the prevalence of mutations in the SARS-CoV-2 virus, with particular focus on those occurring in the spike protein that may reduce vaccine effectiveness or enable re-infection.

Australia's Communicable Diseases Genomics Network (CDGN) reports on the four internationally recognised VoCs, B.1.1.7, B.1.351, P1 and B.1.617:

- B.1.1.7 first identified in the United Kingdom in September 2020 and recognised as a VoC on 14 December 2020
- B.1.351 first identified in South Africa in December 2020 and recognised as a VoC on 18 December 2020
- P.1 first identified in Japan among a group of Brazilian travellers in December 2020 and recognised as a VoC on 2 January 2021
- B.1.617 first detected in India in October 2020 (reported by three sub-lineages, which vary in mutations). This lineage was recognised as a VoC on 11 May 2021

All VoCs have since spread beyond their initial country of origin with B.1.1.7 the most widely distributed worldwide. NSW Health Pathology has identified all four of the VoCs in NSW.

In the four weeks ending 22 May 2021, there have been:

- two locally acquired COVID-19 cases diagnosed with a VoC; both diagnosed with the B.1.617.2 variant.
- 85 returned travellers were diagnosed with a VoC. Of these:
 - o 45 (53%) with the B.1.1.7 variant
 - o 40 (47%) with the B.1.617 variant (reported by three sub-lineages)
- Almost three-quarters (61, 72%) of 85 returned travellers diagnosed with a VoC likely acquired their infection in either India (43, 51%), Pakistan (9,11%) or Nepal (9,11%).

Table 3a. Locally acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 22 May 2021

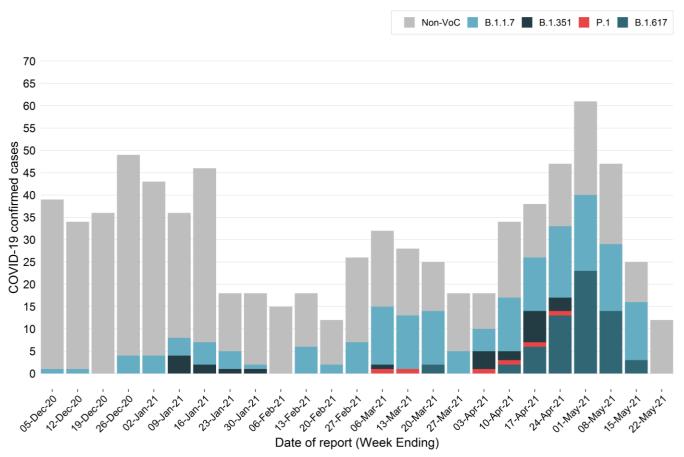
		Week 6	29 Nov to	Total since 29		
	22 May	15 May*	8 May	1 May	24 Apr	November
Total locally acquired cases	0	0	2	0	225	227
Local cases with VoC	0	0	2	0	7	9
B.1.1.7	0	0	0	0	6	6
B.1.351	0	0	0	0	1	1
B.1.617	0	0	2	0	0	2
P.1	0	0	0	0	0	0
% locally acquired cases with VoC	-	-	100%	-	3%	4%

^{*}Note: identification of variants of concern is through whole genome sequencing. Results for reported cases in the most recent week may not be available at the time of reporting.

Table 3b. Overseas acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 22 May 2021

		Week e		29 Nov to	Total since 29		
	22 May*	15 May*	8 May	1 May	24 Apr	November	
Total overseas acquired cases	12	25	47	61	630	775	
Overseas cases with VoC	0	16	29	40	180	265	
B.1.1.7	0	13	15	17	126	171	
B.1.351	0	0	0	0	25	25	
B.1.617	0	3	14	23	23	63	
P.1	0	0	0	0	6	6	
% overseas acquired cases with VoC	0	64%	62%	66%	29%	34%	

Figure 3. Overseas acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 22 May 2021



*Note: identification of variants of concern is through whole genome sequencing. Results for reported cases in the most recent week may not be available at the time of reporting.

Interpretation: Since 29 November 2020 there have been 265 returned travellers diagnosed with a COVID-19 VoC. In the four weeks ending 22 May 2021, 59% (85/145) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351, B.1.617 and P1).

Section 3: Locally acquired COVID-19 transmission in NSW in the last four weeks

Information from cases who were diagnosed in the last four weeks is used to understand where COVID-19 is spreading in the community. This takes into account the incubation period and the time it takes for people to seek testing and for the laboratory to perform the test. This section summarises cases based on the date the case was reported to NSW Health.

Table 4. Locally acquired COVID-19 cases by LHD of residence and week reported, NSW, 4 April to 22 May 2021

		Week e		Days since last		
Local Health District	22 May	15 May	8 May	1 May	Total	case reported
Central Coast	0	0	0	0	0	144
Illawarra Shoalhaven	0	0	0	0	0	140
Nepean Blue Mountains	0	0	0	0	0	249
Northern Sydney	0	0	0	0	0	36
South Eastern Sydney	0	0	2	0	2	17
South Western Sydney	0	0	0	0	0	134
Sydney	0	0	0	0	0	131
Western Sydney	0	0	0	0	0	126
Far West	0	0	0	0	0	415
Hunter New England	0	0	0	0	0	36
Mid North Coast	0	0	0	0	0	396
Murrumbidgee	0	0	0	0	0	257
Northern NSW	0	0	0	0	0	53
Southern NSW	0	0	0	0	0	215
Western NSW	0	0	0	0	0	296
NSW*	0	0	2	0	2	17

^{*}Includes people with a usual place of residence outside of NSW

Interpretation: In the week ending 22 May, there were no locally acquired cases.

In the week ending 8 May, testing identified two locally acquired cases of COVID-19 in a couple in their 50s from the same household in South Eastern Sydney. Whole genome sequencing showed that these cases were infected with an identical virus (a variant of concern B.1.617) that had infected a person who acquired their infection in the United States and arrived in NSW a few days earlier, in late April.

To check for any **direct transmission** between the overseas acquired case and the locally acquired case who had first onset of symptoms on 2 May, NSW Health conducted detailed interviews with the locally acquired and overseas acquired cases and reviewed other available data sources to establish their movements during the period when transmission might have occurred. Each case's close contacts were assessed, tested and isolated. We were unable to identify any opportunities for direct transmission between the overseas and locally acquired cases.

To check for any **indirect transmission** between the cases, through an intermediary case, NSW Health's contacted and tested over 900 people. These included people who had contact with the overseas acquired case while they were infectious:

- · on the flight to Sydney
- at the airport on the day of arrival
- · at the quarantine hotel
- · at the Special Health Accommodation
- during transport between these locations

Epidemiological week 20, ending 22 May 2021

The investigation also included contacting and tested people who had contact with the first locally acquired case at the time he could have acquired his infection:

- · people in his family and social circles
- · people who were at venues he attended

Despite these extensive investigations, NSW Health has not identified how the initial case was exposed to COVID-19.

To contain any risk of **ongoing transmission in the community**, NSW Health identified people who attended the venues visited by the locally acquired cases while he was infectious, and contacted, tested and isolated people who attended the same venues, identified through QR sign-in data and through public alerts. This investigation identified nine venues of concern and 201 close contacts in relation to exposure with the two cases and no further community transmission has been identified.

Further to the investigation and contact tracing, on Sunday 9 May 2021, NSW Health announced that temporary COVID-safe measures would be introduced across Greater Sydney. These measures remained in place until 12:01am Monday 17 May 2021. For further details please see the <u>NSW Health media release</u> for 16 May 2021.

Section 4: Current COVID-19 clusters in NSW

Public health staff interview all new cases at the time of diagnosis to identify the likely source of their infection. Cases are also asked to report all the locations visited and people with whom they have been in contact within their infectious period (generally two days prior to symptom onset until the time of isolation and three days in high-risk settings). Close contacts are quarantined to limit the spread of infection to others and encouraged to seek testing.

Clusters are defined as a group of two or more cases (who don't reside in the same household) that are infected with the same virus (with the identical genetic sequence) that are linked epidemiologically to each other. This means that a direct source of infection can be identified for each case in the cluster, through contact with a known case where transmission likely occurred.

A case that shares the same virus (with an identical genetic sequence) is not counted as part of the cluster if an epidemiological link to another case in the cluster has not been found. Although the case must have been infected through contact with an infectious person in the cluster, that contact or that infectious person has not been found.

Cases in community settings

There were no cases reported in the last week who were linked to recent clusters.

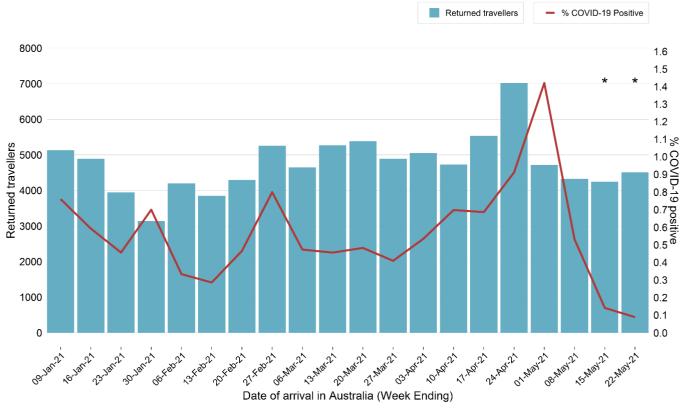
Section 5: COVID-19 in returned travellers

To limit the spread of COVID-19 into NSW, travel restrictions were introduced for all non-Australian citizens and permanent residents in mid-March 2020. In addition:

- From 29 March 2020 returned travellers have been quarantined in hotels for a 14-day period and travellers who develop symptoms are isolated until no longer infectious. Returned travellers are screened on entry and exit from quarantine and following release from quarantine.
- From 22 January 2021 (local time at departure point) all people travelling to Australia on flights must provide proof of a negative COVID-19 PCR test result at the time of check-in.

The figure below shows the number of returned travellers screened at Sydney International Airport since 2021. Returned travellers include international flight crew who are required to be tested before leaving the airport.

Figure 4. Returned travellers screened at Sydney International Airport by week of arrival and percent COVID-19 positive, NSW, 3 January 2021 to 22 May 2021



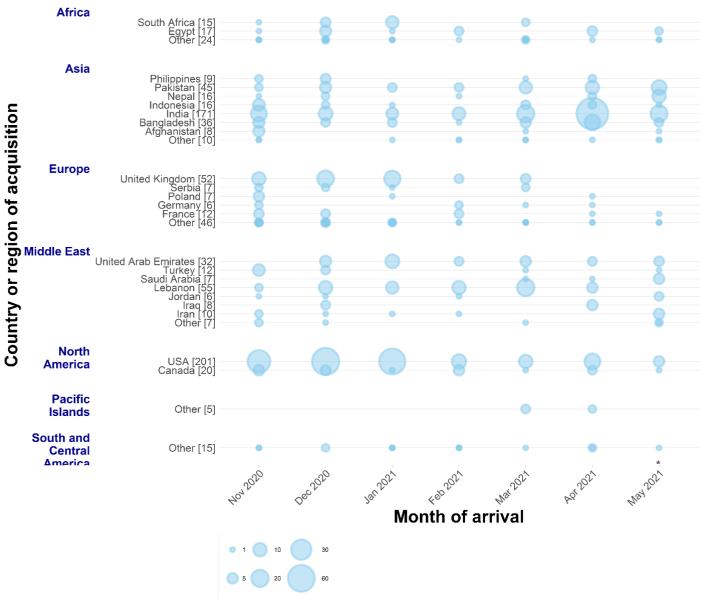
^{*}Returned travellers entering Australia in the past 14 days are still in quarantine and may return a positive result prior to the end of their hotel quarantine period.

Interpretation: Since 3 January 2021, there has been on average 678 people screened on arrival through Sydney International Airport daily. In the last four weeks, 145 returned travellers have subsequently tested positive for COVID-19 while completing quarantine. The proportion of returned travellers who test positive for COVID-19 has remained low but increased to over 1% (1.3%) in returned travellers in the week ending 1 May 2021 for the first time in 2021.

Country of acquisition of COVID-19 for overseas travellers

The following figure displays the countries and regions with the greatest numbers of international travellers diagnosed with COVID-19 in NSW.

Figure 5. Overseas acquired COVID-19 cases by country of acquisition and arrival month, NSW, 1 October 2020 to 22 May 2021



^{*} Data for current month is incomplete

Interpretation: In April 2021, there was a significant increase in detections of COVID-19 in travellers from India, which has subsided in May. The pattern seen in COVID-positive travellers over time reflects the evolving nature of the pandemic in those areas and the country of origin of returned travellers.

In the last four weeks, there have been 145 COVID-positive travellers in NSW. The table below lists of countries of acquisition for these travellers.

Table 5. Top countries of acquisition for overseas acquired cases that have tested positive in the last four weeks, 4 April 2021 to 22 May 2021

Country of acquisition of COVID-19	Number (%) of cases in the last four weeks
India	64 (44%)
Pakistan	15 (10%)
Nepal	12 (8%)
USA	7 (5%)
Saudi Arabia	6 (4%)
Egypt	5 (3%)
Iran	5 (3%)
United Arab Emirates	5 (3%)
Bangladesh	3 (2%)
Jordan	3 (2%)
Other	20 (14%)
Total	145

Interpretation: In the last four weeks, travellers returning from India accounted for the largest number of overseas acquired cases (64, 44%), followed by travellers returning from Pakistan (15, 10%), Nepal (12, 8%), and the USA (7, 5%).

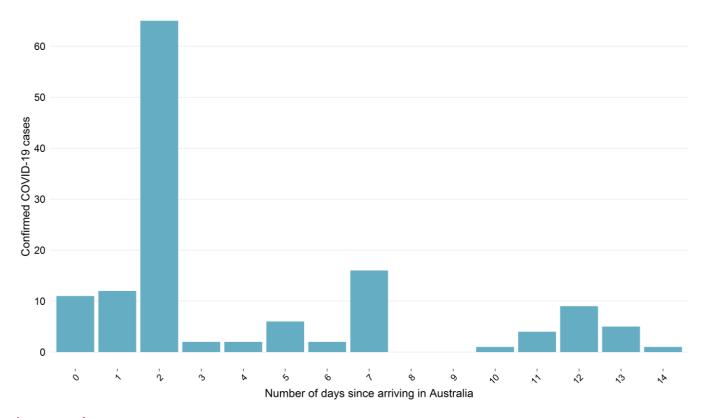
Cases among returned travellers in quarantine

The program of screening all overseas travellers after arrival in NSW commenced on 15 May 2020. From 30 June 2020, the program was extended to include screening of travellers on entry to quarantine, day 2 after arrival, and exit of quarantine. On 11 January 2021, exit screening of travellers was moved from day 10 to day 12 of quarantine. Testing is also carried out on individuals that became symptomatic in addition to these two tests, including those that are symptomatic on arrival.

Overseas returned travellers complete their quarantine in several facilities with majority of people in police-managed hotels or hotels managed by NSW Health (known as Special Health Accommodation). Since September 2020 international flight crew are also required to quarantine in police-managed hotels.

The figure below shows the number of overseas acquired cases in returned travellers within the quarantine program, by the number of days since they arrived in Australia. Overseas acquired cases include people with likely exposure overseas, in flight or who are household-like contacts of overseas acquired cases within hotel quarantine.

Figure 6. Number of overseas acquired cases in the last four weeks who tested positive for SARS-CoV-2 during the 14-day quarantine period, by days since arrival in NSW, 17 April to 22 May 2021



Interpretation: In the four weeks ending 22 May 2021, 45% of overseas acquired COVID-19 cases have tested positive within 2 days of arriving to Australia, with most people testing positive on day 2 screening.

Section 6: COVID-19 vaccination status

COVID-19 vaccinations began in Australia on 22 February 2021. The first people to receive the COVID-19 vaccines are priority groups who are at a higher risk of COVID-19 including quarantine and border workers, frontline healthcare workers, and aged and disability care residents and staff.

There are a range of vaccines, with variable efficacy, currently being administered worldwide. People receiving vaccines are considered fully vaccinated two weeks after they complete the recommended course for that vaccine. Both vaccines being administered in Australia, Pfizer-BioNTech and AstraZeneca, and many from overseas such as Moderna and Sinovac, recommend a two-dose course. There is one single dose vaccine course currently being administered, the Johnson & Johnson vaccine in the USA.

The tables below show the number COVID-19 cases, by the number of self-reported COVID-19 vaccine doses received. The number of cases reported as **fully vaccinated** refers to vaccination being completed 14 days prior to known exposure to COVID-19 or 14 days prior to arrival in Australia.

Table 6a. Overseas acquired COVID-19 cases by number of self-reported COVID-19 vaccine doses received and week reported, NSW, 1 March to 22 May 2021

Number of self-reported		Week e	1 Mar to	Total since		
vaccination doses received	22 May	22 May 15 May 8 May 1 N		1 May	24 Apr	1 March 2021
Total overseas acquired cases	12	25	47	61	234	379
Two doses	1	2	0	1	5	9
One dose	1	0	3	1	13	18
None	10	23	44	58	207	342
Unknown	0	0	0	1	9	10
Number (%) cases fully vaccinated	1 (8%)	2 (8%)	0%	2 (3%)	4 (2%)	9 (2%)

Table 6b. Locally acquired COVID-19 cases by number of self-reported COVID-19 vaccine doses received and week reported, NSW, 1 March to 22 May 2021

Number of self-reported		Week e	1 Mar to	Total since 1 March 2021		
vaccination doses received	22 May	22 May 15 May 8 May 1 May				24 Apr
Total locally acquired cases	0	0	2	0	7	9
Two doses	0	0	0	0	0	0
One dose	0	0	0	0	2	2
None	0	0	2	0	5	7
Unknown	0	0	0	0	0	0
Number (%) cases fully vaccinated	-	-	0	-	0	0

Interpretation: Since 1 March 2021, nine (2%) cases reported being fully vaccinated prior to arrival in Australia, although they may not have been fully vaccinated prior to being exposed to COVID-19.

There have been no locally acquired cases reported as being fully vaccinated.

Section 7: COVID-19 in specific populations

Aboriginal people

Aboriginal and Torres Strait Islander communities are recognised as a priority group due to key drivers of increased risk of transmission and severity of COVID-19 which include mobility, remoteness, barriers to access including institutional racism and mistrust of mainstream health services, crowded and inadequate housing, and burden of disease.

Since the beginning of the pandemic there have been 49 Aboriginal people diagnosed with COVID-19, representing 1% of all cases in NSW.

Healthcare workers

The following describes infections of COVID-19 in healthcare workers (HCWs). HCWs in this section includes roles such as doctor, nurse, orderly, paramedic, laboratory technician, pharmacist, administrative staff, cleaners, and other support staff. Public health units routinely undertake investigations of COVID-19 cases in healthcare workers to identify ongoing risks in healthcare settings.

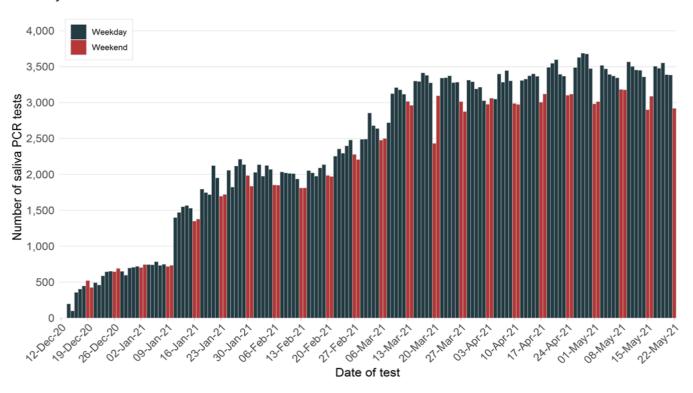
There were no locally acquired cases of COVID-19 reported in HCWs in the week ending 22 May 2021.

In total there have been 48 cases of COVID-19 in health care workers since 1 August 2020. Of these, 25 HCWs were potentially infected in healthcare settings. A further nine cases were social or household contacts of a known case, eight were exposed in community settings, and for six cases the source of infection is unknown. Prior to August 2020, there were 206 cases identified in HCWs who had worked in a health facility in the 14 days prior to symptom onset or date of testing (see COVID-19 in healthcare workers in NSW).

Border and quarantine workers – saliva testing screening program

As the number of COVID-19 cases rise across the world and more people return to Australia from overseas, increased numbers of COVID-19 cases are seen in returned overseas travellers in quarantine facilities. Routine screening of quarantine workers is implemented out of care and caution for staff members who work in NSW quarantine facilities. Screening involves a daily SARS-CoV-2 saliva PCR testing, which is painless and quick (see NSW hotel quarantine worker surveillance and testing program).

Figure 8. Daily numbers of saliva PCR test results reported for border and quarantine workers, NSW, 12 December 2020 to 22 May 2021



^{*} The number of saliva PCR tests on 15 May 2021 is incomplete due to delays in reporting negative results.

Interpretation: Since screening of quarantine workers began in December 2020, a total of 375,217 saliva PCR tests have been conducted. The number of saliva PCR tests increased significantly on 11 January 2021, which corresponds to the expansion of the NSW quarantine hotel worker surveillance and testing program. One confirmed case of COVID-19 has been reported through saliva PCR testing, reported on 13 March 2021.

The daily number of saliva PCR tests is not included in the total PCR testing numbers reported.

Section 8: COVID-19 deaths

How many people have died as a result of COVID-19?

Since the start of the pandemic, 1.0% of cases (56 people) have died as a result of COVID-19, most of whom were 70 years of age or older, including 28 residents of aged care facilities with known COVID-19 outbreaks. Approximately 21% (12/56) of the deaths were in overseas acquired cases.

There were no deaths reported in the week ending 22 May.

Table 7. Deaths as a result of COVID-19, by age group, NSW, from 25 January 2020 to 22 May 2021

Age group (years)	Number of deaths	Number of cases	Case fatality rate
0–4	0	146	0%
5–11	0	138	0%
12–17	0	168	0%
18–29	0	1,214	0%
30–49	0	1,795	0%
50-59	1	709	0.1%
60–69	4	656	0.6%
70–79	15	391	3.8%
80+	36	164	22.0%
Total	56	5,381	1.0%

Interpretation: Cases older than 80 years of age had both the highest number of deaths and the highest case fatality rate. No cases under 50 years of age have died as a result of COVID-19 in NSW.

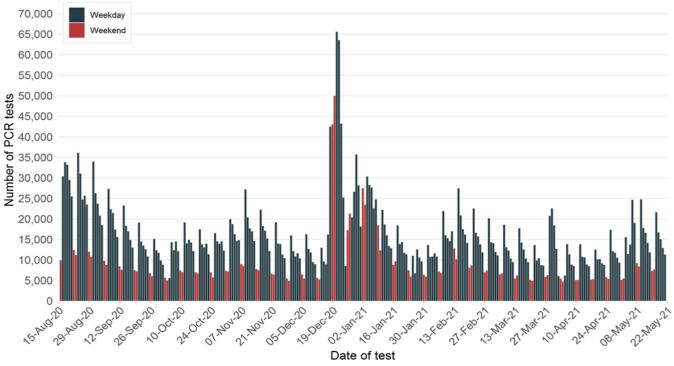
Section 9: COVID-19 testing in NSW

How much testing is happening?

The bars on the graph below show the number of tests by the date a person presented for the test. While public health facilities are generally open seven days a week, there may be less demand and availability for testing through GPs and private collection centres on weekends and public holidays. This likely explains lower testing numbers on weekends.

The PCR testing numbers reported are for tests performed on nose and throat swabs. Saliva PCR tests are not included, these are reported in the "Quarantine workers – Screening Program" section on page 11.

Figure 9. Number of PCR tests per day, NSW, 11 July 2020 to 22 May 2021



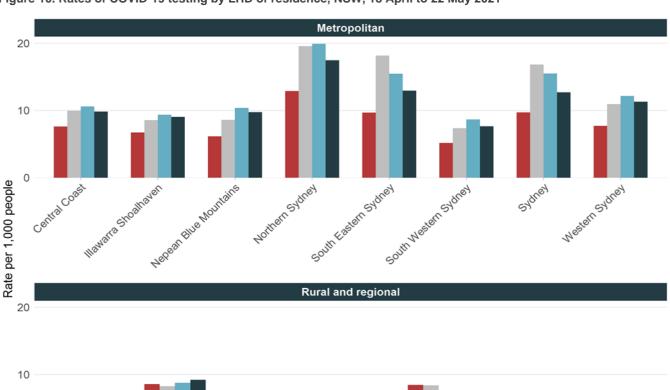
Includes SARS-CoV-2 PCR tests only and excludes repeat positive tests for an individual.

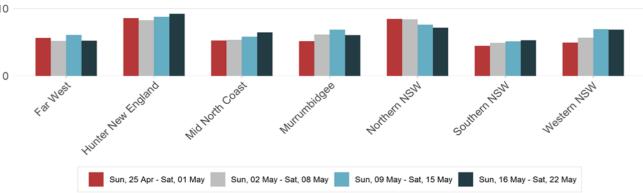
Interpretation: Testing numbers decreased in the week ending 22 May (down 11%) compared to the previous week. The average daily testing rate of 1.6 per 1,000 people in NSW each day has decreased compared to the previous week of 1.8 per 1,000 people.

¹ The number of tests per day displayed below is different to the 24 hour increase in tests reported each day as there are delays in some laboratories providing negative results to NSW Health.

Testing by Local Health District

Figure 10. Rates of COVID-19 testing by LHD of residence, NSW, 18 April to 22 May 2021



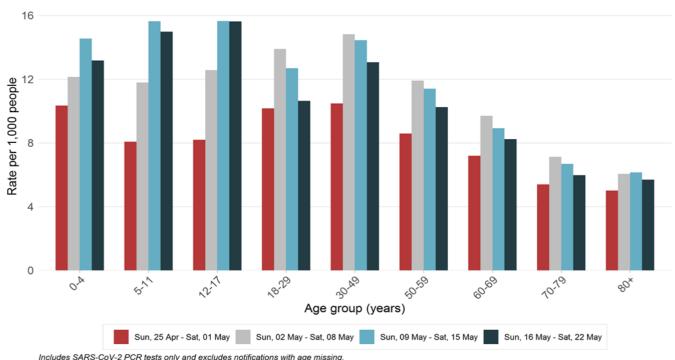


 $Includes \ SARS-CoV-2 \ PCR \ tests \ only \ and \ excludes \ notifications \ with \ missing \ postcode \ of \ residence.$

Interpretation: State-wide weekly testing rates in the week ending 22 May decreased when compared to the previous week (11.4 per 1,000 people compared to 12.5 per 1,000 people). The decrease in testing rates was seen across most LHDs; Hunter New England, Mid North Coast and Southern NSW LHDs had increases in testing rates, while the rate in Western NSW was stable.

Testing by age group

Figure 11. Rates of COVID-19 testing by age group and week, NSW, 18 April to 22 May 2021



Includes SARS-CoV-2 PCR tests only and excludes notifications with age missing.

Interpretation: In the week ending 22 May, testing rates decreased across most age groups when compared to the previous week, but were generally higher than the end of April. The testing rate among 12-17 year old was stable compared to the previous week.

Section 10: NSW Sewage Surveillance Program

The NSW Sewage Surveillance Program tests untreated sewage for fragments of the COVID-19 (SARS-CoV-2) virus at sewage treatment plant locations across NSW. In Sydney, testing is undertaken from both the sewage treatment plant (inlet sites) and sites within the network (network sites). Testing sewage can help track infections in the community and provide early warning of an increase in infections. These tests provide data to support NSW Health's response to COVID-19.

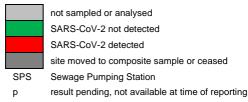
An infected person can shed virus in their faeces even if they do not have symptoms, and shedding can continue for several weeks after they are no longer infectious. The NSW sewage surveillance for SARS-CoV-2 is in the preliminary stages of analysis and work is progressing to assess the significance of the results. For example, it is not currently known the minimum number of cases that can be detected in a catchment. A small number of cases in a large sewage catchment may not be detected by sewage surveillance due to factors such as dilution, inhibition, reduction in shedding over the infection period or movement of cases.

The table below shows results for the last 10 weeks for sites that have had detections. The results from all sites across NSW are available in Appendix D.

Table 8. Locations with SARS-CoV-2 detections in sewage samples in the last 10 weeks, NSW, 13 March to 22 May 2021

		20- Mar	27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Pop.	Location	11	12	13	14	15	16	17	18	19	20
Sydney sewa	age treatment plant (inlet sites)										
318,810	Bondi										
1 057 740	Malabar 1										
1,857,740	Malabar 2										
Sydney netw	ork sites										
Bondi	Paddington Sewage Network										
Malabar	Marrickville Sewage Network 1										
Malabar	Marrickville Sewage Network 2										
Malabar	Homebush SPS										
Malabar	Olympic Park										
Malabar	Botany Sewage Network										
North Head	Allambie Heights Sewage Network										
Regional site	es										
15,500	Merimbula										
225,834	Hunter - Burwood Beach										
7,700	Lennox Head										

Sampling commenced week ending 18 July 2020



Interpretation: In the week ending 22 May, 149 sewage samples were tested for fragments of SARS-CoV-2. Of these, there were three detections – taken from the sewage networks at Homebush and Botany (both within the Malabar catchment) and from the Bondi treatment plant. All contain quarantine hotels where active cases are known to have stayed. People can continue to shed fragments of the virus for several weeks.

Section 11: Other respiratory infections in NSW

Influenza and other respiratory virus cases and tests reported in NSW, up to 16 May 2021

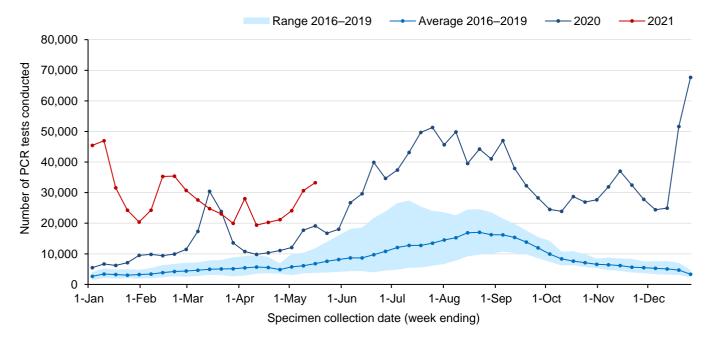
In NSW, routine surveillance for influenza and other respiratory viruses is conducted through sentinel laboratories. The number of all PCR tests (positive and negative) are provided to NSW Health by participating laboratories each week. Testing counts reflect the number of influenza PCR tests conducted; not all samples are tested for all respiratory viruses.

The most recent data available is for testing carried out to 16 May 2021. A total of 566,654 influenza tests have been performed at participating laboratories from 28 December 2020. Refer to Appendix B for PCR testing results for a range of respiratory viruses.

How much influenza testing is happening?

The red line in the figure below shows the number of PCR tests for influenza carried out each week in 2021, the dark blue line showing PCR tests for 2020. The light blue line shows the average number of PCR tests carried out for the same week in the previous four years (2016–2019) and the shaded area shows the range of tests reported in the same time period.

Figure 13. Testing for influenza by week, NSW, 1 January 2016 to 16 May 2021



Interpretation: In the week ending 16 May, the number of influenza tests increased, with 33,277 influenza tests performed across participating laboratories compared with 30,643 the previous week. Testing for influenza continues to exceed the four-year average for this time of year.

How much influenza is circulating?

The graph below shows the proportion of tests found to be positive for influenza with the red line showing weekly counts for 2021, the dark blue line showing counts for 2020, the light blue line showing the average for 2016 to 2019 and the shaded area showing the range recorded for 2016 to 2019.

2020 2021 Range 2016-2019 Average 2016-2019 50 40 Percent positive (%) 30 20 10 0 1-Feb 1-Apr 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec 1-Mar 1-May 1-Jan Specimen collection date (week ending)

Figure 14. Proportion of tests positive for influenza, NSW, 1 January 2016 to 16 May 2021

Interpretation: In the week ending 16 May, the percent of influenza tests that were positive continued to be very low (<0.01%), indicating limited influenza transmission in the community. Since early March 2020, this percentage has remained far lower than the usual range for the time of year. There have been 8 influenza cases reported in 2021. Investigations into the source of these cases are ongoing, and further confirmatory testing is underway.

How many people have flu-like symptoms in the community?

FluTracking is an online survey that asks participants to report flu-like symptoms, such as fever or cough, in the last week. Across NSW approximately 25,000–30,000 people participate each week. The survey usually commences at the beginning of May in line with the flu season but has continued throughout the year due to the COVID-19 outbreak.

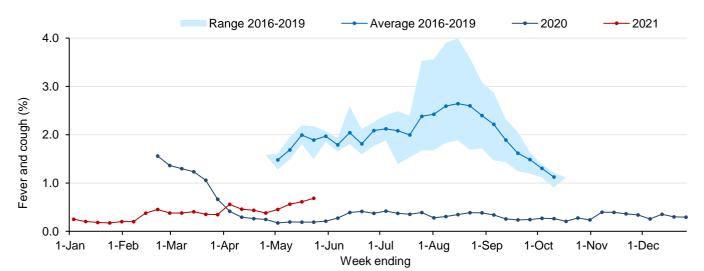


Figure 15. Proportion of FluTracker participants reporting influenza-like illness, NSW, 1 January 2016 to 23 May 2021

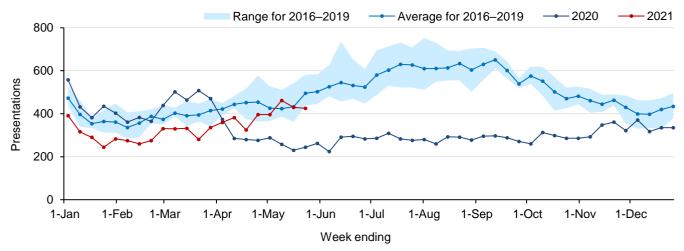
Interpretation: In NSW in the week ending 23 May, of the 21,385 people surveyed, 146 people (0.68%) reported flu-like symptoms. In the last four weeks, 49% (266/546) of new cases of flu-like illness reported having a COVID-19 test. The proportion of people being tested for COVID-19 has decreased since January, when 80% of people surveyed with flu-like symptoms were being tested.

How are emergency department presentations tracking?

Improved hygiene and social distancing measures implemented during the COVID-19 pandemic have impacts on a broad range of other viral and bacterial infections.

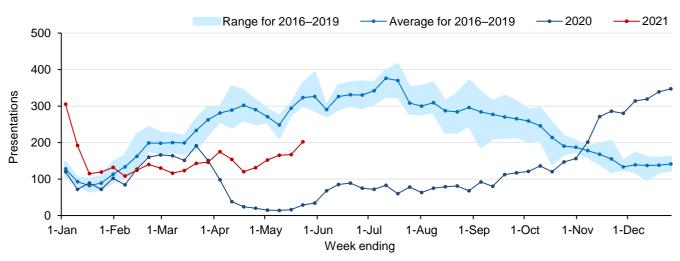
The figures below show weekly pneumonia and bronchiolitis presentations to Emergency Departments in NSW, using PHREDSS². The red line shows the weekly counts for 2021, the dark blue line showing counts for 2020, the light blue line showing the average for 2016 to 2019 and the shaded area showing the range recorded for 2016 to 2019.

Figure 16. Emergency Department pneumonia presentations, NSW, 1 January 2016 to 23 May 2021



Interpretation: Pneumonia presentations include people with diagnoses of viral, bacterial, atypical or unspecified pneumonia, and Legionnaires' disease, but excludes 'pneumonia with influenza' and provides an indicator of more severe respiratory conditions. In the week ending 23 May, pneumonia presentations decreased and were slightly below the seasonal average for this time of year.

Figure 17. Emergency Department bronchiolitis presentations, NSW, 1 January 2016 to 23 May 2021



Interpretation: Bronchiolitis is a common disease of infants often caused by respiratory syncytial virus (RSV). Public health measures introduced last year around social distancing and improved hygiene practices coincided with a large decrease in bronchiolitis presentations for the majority of 2020. A rise in bronchiolitis presentations in the later part of 2020 corresponds to an increase in RSV detections. In the week ending 23 May 2021, bronchiolitis presentations continue to increase but remain below the seasonal range for this time of year.

² NSW Health Public Health Rapid, Emergency Disease and Syndromic Surveillance (PHREDSS) system, CEE, NSW Ministry of Health. Comparisons are made with data for the preceding 5 years. Includes unplanned presentations to 67 NSW emergency departments (accounts for 87% of total public ED activity).

Appendix A: COVID-19 PCR tests in NSW by Local Government Area

			Week e	Total since			
		22-	Мау	15-I	May	Janua	ary 2021
Local Health District	Local Government Area	No.	Tests per 1,000 population	No.	Tests per 1,000 population	No.	Tests per 1,000 population
Central Coast	Central Coast / LHD Total ²	3475	9.85	3752	10.63	218464	619.12
	Balranald	4	1.71	6	2.57	709	303.25
	Broken Hill	112	6.41	121	6.92	9602	549.34
Far West	Central Darling	3	1.63	6	3.26	576	313.21
	Wentworth	39	5.53	51	7.23	3488	494.54
	LHD Totaf	158	5.24	184	6.1	14375	476.88
	Armidale Regional	251	8.15	241	7.83	15290	496.77
	Cessnock	284	4.73	265	4.42	22379	373.08
	Dungog	62	6.58	66	7	3759	398.92
	Glen Innes Severn	33	3.72	39	4.4	2747	309.66
	Gunnedah	67	5.28	65	5.13	4743	374.02
	Gwydir	29	5.42	21	3.92	1057	197.46
	Inverell	112	6.63	81	4.8	6273	371.4
	Lake Macquarie	2508	12.18	2336	11.35	135671	658.91
	Liverpool Plains	37	4.68	43	5.44	3090	390.99
	Maitland	1046	12.28	1063	12.48	61036	716.67
Hamton Moss	Mid-Coast	467	4.98	490	5.22	35760	381.09
Hunter New England	Moree Plains	55	4.15	90	6.79	4406	332.25
9	Muswellbrook	111	6.78	87	5.31	6643	405.63
	Narrabri	65	4.95	47	3.58	3704	281.99
	Newcastle	2221	13.41	2091	12.63	131768	795.84
	Port Stephens	550	7.48	515	7.01	41624	566.46
	Singleton	196	8.35	162	6.91	13708	584.29
	Tamworth Regional	550	8.79	530	8.47	33172	530.4
	Tenterfield	13	1.97	18	2.73	1705	258.57
	Upper Hunter Shire	83	5.85	74	5.22	6029	425.18
	Uralla	30	4.99	34	5.66	1866	310.38
	Walcha	23	7.34	19	6.06	1338	426.93
	LHD Total	8793	9.23	8372	8.79	537346	564.21
	Kiama	233	9.96	212	9.07	15337	655.82
Illawarra	Shellharbour	692	9.45	706	9.64	46631	636.75
Shoalhaven	Shoalhaven	713	6.75	641	6.07	51134	484
	Wollongong	2166	9.93	2375	10.89	149258	684.31
	LHD Total ²	3804	9.07	3934	9.38	262360	625.24
	Bellingen	116	8.93	99	7.62	5921	455.6
	Coffs Harbour	417	5.4	421	5.45	30985	400.96
Mid North	Kempsey	166	5.58	182	6.12	13510	454.19
Coast	Nambucca	89	4.49	84	4.24	7310	369.1
	Port Macquarie-Hastings	671	7.94	532	6.29	39623	468.77
	LHD Totaf	1459	6.47	1318	5.84	97349	431.39

			Week 6	ending		Total since		
Local Health		22-	May	15-1	May		ary 2021	
District	Local Government Area	No.	Tests per 1,000 population	No.	Tests per 1,000 population	No.	Tests per 1,000 population	
	Albury	403	7.41	463	8.52	26802	493.11	
	Berrigan	12	1.37	7	0.8	2510	286.86	
	Bland	23	3.85	37	6.2	2082	348.63	
	Carrathool	3	1.07	5	1.79	455	162.56	
	Coolamon	19	4.38	29	6.68	1852	426.63	
	Cootamundra-Gundagai Regional	60	5.34	67	5.96	4216	375.26	
	Edward River	20	2.2	36	3.96	3477	382.76	
	Federation	44	3.54	52	4.18	4362	350.73	
	Greater Hume Shire	73	6.78	74	6.87	4570	424.56	
	Griffith	200	7.4	203	7.51	13106	484.89	
	Hay	5	1.7	11	3.73	712	241.44	
Murrumbidgee	Hilltops	113	6.04	130	6.95	7637	408.31	
	Junee	17	2.54	44	6.58	2027	303.31	
	Lachlan ¹	19	3.13	20	3.29	1291	212.51	
	Leeton	49	4.28	47	4.11	3822	333.94	
	Lockhart	18	5.48	23	7	1124	342.16	
	Murray River	6	0.5	8	0.66	1111	91.68	
	Murrumbidgee	9	2.3	9	2.3	1134	289.51	
	Narrandera	8	1.36	11	1.86	1467	248.69	
	Snowy Valleys	67	4.63	66	4.56	5877	405.9	
	Temora	18	2.85	17	2.7	1763	279.53	
	Wagga Wagga	635	9.73	705	10.8	38517	590.23	
	LHD Totaf	1806	6.06	2047	6.87	129037	432.85	
	Blue Mountains	924	11.68	1028	12.99	65133	823.24	
Noncon Dive	Hawkesbury	753	11.19	719	10.68	44674	663.84	
Nepean Blue Mountains	Lithgow	112	5.18	113	5.23	9061	419.39	
	Penrith	2049	9.62	2228	10.46	156492	734.78	
	LHD Totaf	3815	9.76	4071	10.41	273236	698.83	
	Ballina	437	9.79	643	14.41	32024	717.58	
	Byron	317	9.04	286	8.15	25284	720.73	
	Clarence Valley	221	4.28	274	5.3	17437	337.52	
	Kyogle	53	6.03	41	4.66	2835	322.31	
Northern NSW	Lismore	409	9.36	360	8.24	24583	562.64	
	Richmond Valley	189	8.05	166	7.07	10829	461.5	
	Tenterfield	13	1.97	18	2.73	1705	258.57	
	Tweed	601	6.2	590	6.08	40325	415.72	
	LHD Total	2229	7.18	2364	7.62	153700	495.23	
	Hornsby	2024	13.31	2257	14.84	107490	706.9	
	Hunters Hill	446	29.77	553	36.92	24201	1615.55	
Northern	Ku-ring-gai	2620	20.61	3031	23.84	142104	1117.58	
Sydney	Lane Cove	1357	33.79	1422	35.41	68465	1705.02	
- -	Mosman	490	15.82	567	18.3	28975	935.25	
	North Sydney	933	12.44	1106	14.74	53660	715.27	
	Northern Beaches	4914	17.97	5716	20.9	357396	1306.75	

				Week	Week ending							
Patrict Patr			22-			May						
Ryde		Local Government Area	No.	1,000	No.	1,000	No.	1,000				
Milloughby		Parramatta ¹	2852	11.09	3084	11.99	157688	613.1				
Part		Ryde	2129	16.22	2473	18.84	101399	772.44				
Bayside		Willoughby	1080	13.3	1198	14.76	55401	682.37				
South Eastern Sydney		LHD Totaf	16702	17.47	19053	19.93	971419	1016.22				
South Eastern Sydney Substitution of the state of the st		Bayside	1728	9.69	1942	10.89	104229	584.26				
South Eastern Sydney Sutherland Shire 2899 12.57 3060 13.27 182315 790.57 Sydney Sydney 3748 15.21 4820 19.57 233978 948.81 Woollahra 1280 17.23 1736 23.37 82198 1106.37 Woollahra 1374 23.14 1807 30.43 72218 1216.06 LHD Total* 12453 12.98 14885 15.49 766715 789.98 Camden 1277 12.59 1389 13.69 93629 923.03 Cambelltown 1679 9.92 1960 11.47 126251 789.98 South Fairfield 1040 4.91 1251 5.91 96835 457.43 Western Fairfield 1040 4.91 1251 5.91 96835 457.43 Western Sydney 373 7.02 381 7.17 2689 780.09 780.09 780.09 780.09 780.09		Georges River	1485	9.31	1653	10.37	88432	554.53				
Sydney Sydney¹ 3748 15.21 4820 19.57 233978 949.81 Waveley 1280 17.23 1736 23.37 82198 1106.37 Woollahra 1374 23.14 1807 30.43 72218 1216.06 LHD Total² 12453 12.99 14855 15.49 756715 788.98 Camden 1277 12.59 1389 13.69 93629 923.03 Cambelltown 1679 9.82 1960 11.147 12651 788.56 Camberbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 South Fairfield 1040 4.91 1251 5.91 96835 457.43 Western Fairfield 1040 4.91 1251 5.91 96835 457.43 Western Huropool 1741 7.65 1977 8.69 151809 667.04 Willingecarribee 460 9 494		Randwick	2309	14.83	2845	18.28	142122	913.09				
Waverley 1280 17.23 1736 23.37 82198 1106.37 Woollahra 1374 23.14 1807 30.43 72218 1216.06 LHD TotaP 12453 12.98 14855 15.49 756715 768.98 1277 12.59 1389 136.99 936.29 923.03 1276 1277 12.59 1389 136.99 936.29 923.03 12775 12.59 1389 136.99 936.29 923.03 12775 12.59 1389 136.99 936.29 923.03 12775 12.59 1389 136.99 936.29 923.03 12.50 12.50 13.50		Sutherland Shire	2899	12.57	3060	13.27	182315	790.57				
Woollahra	Sydney	Sydney ¹	3748	15.21	4820	19.57	233978	949.81				
Camden 12453 12.98 14855 15.49 766715 788.98 Camden 1277 12.59 1389 13.69 93629 923.03 73.60 20.00 2		Waverley	1280	17.23	1736	23.37	82198	1106.37				
Camden		Woollahra	1374	23.14	1807	30.43	72218	1216.06				
South Western Sydney Campbelltown (anithous) Earlies (anithous) Earl		LHD Totaf	12453	12.98	14855	15.49	756715	788.98				
South Western Western Sydney Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Western Sydney Fairfield 1040 4.91 1251 5.91 96835 457.43 Western Sydney Einfield 1040 4.91 1251 5.91 96835 457.43 Liverpool 1741 7.65 1977 8.69 151809 667.04 Willondilly 373 7.02 381 7.17 26864 505.45 LHD Total* 7953 7.66 8999 8.67 643216 619.35 Bega Valley 209 6.06 192 5.57 14326 415.54 Bega Valley 209 6.06 192 5.57 14326 649.59 Southern Sollburn Mulwaree 171 5.49 186 5.97 15037 483.01 Southern NSW Snowy Monaro Regional 192 6.83 152 7.31 9153 440.15 LHD Total* 1146 <td></td> <td>Camden</td> <td>1277</td> <td>12.59</td> <td>1389</td> <td>13.69</td> <td>93629</td> <td>923.03</td>		Camden	1277	12.59	1389	13.69	93629	923.03				
South Western Sydney Fairfield Liverpool 1040 4.91 1251 5.91 96835 457.43 Western Sydney Liverpool 1741 7.65 1977 8.69 151809 667.04 Wingecarribee 460 9 494 9.66 39889 780.09 Wollondilly 373 7.02 381 7.17 26864 505.45 LHD Total 7953 7.66 8999 8.67 643216 619.35 Eurobodalla 213 5.54 203 5.28 21349 554.91 Goulburn Mulwaree 171 5.49 186 5.97 15037 483.01 Southern Goulann Mulwaree 171 5.49 186 5.97 15037 483.01 NSW Snowy Monaro Regional 192 4.75 253 4.14 21109 354.84 NSW Snowy Monaro Regional 194 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42		Campbelltown	1679	9.82	1960	11.47	126251	738.56				
Mestern Liverpool 1741 7.65 1977 8.69 151809 667.04 Wingecarribee 460 9 494 9.66 39889 780.09 Wollondilly 373 7.02 381 7.17 26864 505.45 LHD Total 7953 7.66 8999 8.67 643216 619.35 Bega Valley 209 6.06 192 5.57 14326 415.54 Eurobodalla 213 5.54 203 5.28 21349 554.91 Goulburn Mulwaree 171 5.49 186 5.97 15037 483.01 Southern Queanbeyan-Palerang Regional 142 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney 3748 15.21 4820 19.57 233978 949.81 LHD Total 8847 12.7 10806 15.51 582643 836.21 Balayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW 1666 22 4.72 1457 312.8 Cobar 31 6.66 22 4.72 1178 297.67		Canterbury-Bankstown ¹	3051	8.07	3534	9.35	221725	586.7				
New Name		Fairfield	1040	4.91	1251	5.91	96835	457.43				
Wollondilly 373 7.02 381 7.17 26864 505.45 LHD TotalP 7953 7.66 8999 8.67 643216 619.35 Bega Valley 209 6.06 192 5.57 14326 415.54 Eurobodalla 213 5.54 203 5.28 21349 554.91 Southern Queanbeyan-Palerang Regional 290 4.75 253 4.14 21109 345.48 NSW Snowy Monaro Regional 192 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD TotalP 1146 5.28 1112 5.12 89549 412.53 Sydney Inner West 272 13.58 332 16.62 18627 927.47 Sydney Inner West 272 13.58 3337		Liverpool	1741	7.65	1977	8.69	151809	667.04				
Bega Valley 209 6.06 192 5.57 14326 415.54 Eurobodalla 213 5.54 203 5.28 21349 554.91 Goulburn Mulwaree 171 5.49 186 5.97 15037 483.01 Southern NSW Shape		Wingecarribee	460	9	494	9.66	39889	780.09				
Bega Valley 209 6.06 192 5.57 14326 415.54 Eurobodalla 213 5.54 203 5.28 21349 554.91 Goulburn Mulwaree 171 5.49 186 5.97 15037 483.01 Southern NSW Queanbeyan-Palerang Regional 290 4.75 253 4.14 21109 345.48 Snowy Monaro Regional 142 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney 3748 15.21 4820 19.57 233978 949.81 LHD Total 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Bagan 14 5.43 7 2.71 1101 426.74 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63		Wollondilly	373	7.02	381	7.17	26864	505.45				
Eurobodalla 213 5.54 203 5.28 21349 554.91		LHD Total ²	7953	7.66	8999	8.67	643216	619.35				
Southern NSW Goulburn Mulwaree 171 5.49 186 5.97 15037 483.01 NSW Queanbeyan-Palerang Regional 290 4.75 253 4.14 21109 345.48 NSW Snowy Monaro Regional 142 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total? 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 <t< td=""><td></td><td>Bega Valley</td><td>209</td><td>6.06</td><td>192</td><td>5.57</td><td>14326</td><td>415.54</td></t<>		Bega Valley	209	6.06	192	5.57	14326	415.54				
Southern NSW Queanbeyan-Palerang Regional 290 4.75 253 4.14 21109 345.48 NSW Snowy Monaro Regional 142 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total ² 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806		Eurobodalla	213	5.54	203	5.28	21349	554.91				
NSW Snowy Monaro Regional 142 6.83 152 7.31 9153 440.15 Upper Lachlan Shire 42 5.21 45 5.58 3403 422.26 Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total ^P 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 <t< td=""><td></td><td>Goulburn Mulwaree</td><td>171</td><td>5.49</td><td>186</td><td>5.97</td><td>15037</td><td>483.01</td></t<>		Goulburn Mulwaree	171	5.49	186	5.97	15037	483.01				
Upper Lachlan Shire			290	4.75	253	4.14	21109	345.48				
Yass Valley 78 4.56 79 4.62 5138 300.7 LHD Total² 1146 5.28 1112 5.12 89549 412.53 Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46	NSW	Snowy Monaro Regional	142	6.83	152	7.31	9153	440.15				
Burwood 312 7.68 362 8.91 20866 513.79		Upper Lachlan Shire	42	5.21	45	5.58	3403	422.26				
Burwood 312 7.68 362 8.91 20866 513.79 Canada Bay 1315 13.69 1575 16.39 80606 839 Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63		•		4.56	79	4.62	5138	300.7				
Canada Bay 1315 13.69 1575 16.39 80606 839 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Sydney ¹ 13.58 3337 16.62 186247 927.47 Sydney ¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total ² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cobar 31 6.66 22 4.72 1457 312.8 Cobar 31 6.66 22 4.72 1457 312.8 Cobar 14												
Sydney Canterbury-Bankstown¹ 3051 8.07 3534 9.35 221725 586.7 Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cobar 31 6.66 22 4.72 1457 312.8 Cobar 14 3.54 9 2.27 1178 297.63 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>												
Sydney Inner West 2727 13.58 3337 16.62 186247 927.47 Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Totaf² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cobar 31 6.66 22 4.72 1457 312.8 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble		•					80606					
Strathfield 492 10.48 606 12.91 36573 779.38 Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63		· ·										
Sydney¹ 3748 15.21 4820 19.57 233978 949.81 LHD Total² 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63	Sydney											
LHD Total ^P 8847 12.7 10806 15.51 582643 836.21 Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63						12.91	36573					
Bathurst Regional 404 9.26 437 10.02 25473 584 Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63												
Blayney 44 5.96 55 7.45 4143 561.46 Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63												
Bogan 14 5.43 7 2.71 1101 426.74 Bourke 4 1.54 9 3.47 676 261 Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63		· ·										
Western NSW Bourke 4 1.54 9 3.47 676 261 Cabonne 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63												
Western NSW Brewarrina 5 3.1 3 1.86 388 240.84 Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63												
Cabonne 88 6.45 90 6.6 4334 317.88 Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63												
Cobar 31 6.66 22 4.72 1457 312.8 Coonamble 14 3.54 9 2.27 1178 297.63	Western NSW											
Coonamble 14 3.54 9 2.27 1178 297.63												
Cowra 107 8.4 74 5.81 4763 373.77												
		Cowra	107	8.4	74	5.81	4763	373.77				

			Week 6	Total since			
Local Health		22-	Мау	15-1	May	Janua	ry 2021
District	Local Government Area	No.	Tests per 1,000 population	No.	Tests per 1,000 population	No.	Tests per 1,000 population
	Dubbo Regional	320	5.96	313	5.83	24593	457.81
	Forbes	27	2.73	40	4.04	2847	287.4
	Gilgandra	17	4.01	18	4.25	1218	287.33
	Lachlan ¹	19	3.13	20	3.29	1291	212.51
	Mid-Western Regional	257	10.18	219	8.67	11618	460.1
	Narromine	41	6.29	26	3.99	2355	361.36
	Oberon	50	9.24	29	5.36	2175	401.96
	Orange	395	9.3	440	10.36	29163	686.98
	Parkes	55	3.71	74	4.99	5361	361.33
	Walgett	6	1.01	16	2.69	1945	326.73
	Warren	19	7.04	24	8.9	1679	622.54
	Warrumbungle Shire	37	3.99	47	5.07	3563	384.03
	Weddin	15	4.15	12	3.32	1112	307.78
	LHD Totaf	1965	6.89	1981	6.95	132067	463.37
	Blacktown	4273	11.41	4580	12.23	261087	697.25
	Cumberland	2284	9.46	2362	9.78	164555	681.33
Western Sydney	Parramatta ¹	2852	11.09	3084	11.99	157688	613.1
- y a.i.o y	The Hills Shire	3160	17.76	3441	19.33	172419	968.81
	LHD Totaf	11923	11.32	12825	12.17	729925	692.9
NSW Total ³		91,812	11.35	101,118	12.5	1,803,933	222.99

Source - Notifiable Condition Information Management System, accessed as at 8pm 17 May 2021.

¹Local Government Area (LGA) spans multiple Local Health Districts.

²Local Health District total counts and rates includes tests for LHD residents only. Murrumbidgee includes Albury LGA residents.

³NSW Total counts and rates since January 2021 include tests where residential information is incomplete. See https://www.health.nsw.gov.au/Infectious/covid-19/Pages/counting-tests.aspx for detail on how tests are counted.

Appendix B: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 16 May 2021

The reported testing numbers reflect the number of influenza PCR tests conducted. Not all samples are tested for all of the other respiratory viruses. Therefore, data presented may tend to under-represent current respiratory virus activity in NSW.

Testing numbers in NSW from 28 December 2020-16 May 2021

Specimen collection date	PCR tests conducted	Influ No.	uenza A %Pos	Infl No.	uenza B %Pos	Adeno- virus	Para- influenza	RSV	Rhino- virus	HMPV**	Entero- virus
Total	566,654	3	<0.01%	5	<0.01%	2,583	3,292	9,938	33,658	129	4,161
Month ending											
31 January*	168,596	1	<0.01%	0	_	416	88	3,275	3,541	23	560
28 February	125,718	2	<0.01%	0	_	419	106	2,386	8,667	22	910
28 March	95,458	0	-	0	_	507	354	1,909	8,891	18	1,187
2 May*	112,962	0	-	3	<0.01%	802	1,515	1,653	8,141	48	1,128
Week ending											
9 May	30,643	0	_	1	<0.01%	265	490	336	2,112	8	174
16 May	33,277	0	_	1	<0.01%	228	739	379	2,306	10	202

Testing numbers in NSW from January-27 December 2020

Specimen	PCR tests	Influ	enza A	Influ	enza B	Adeno-	Para-	RSV	Rhino-	HMPV**	Entero-
collection date	conducted	No.	%Pos.	No.	%Pos.	virus	influenza	KSV	virus	HIVIP V	virus
Total	1,393,182	6,631	0.48%	955	0.07%	9,139	9,193	22,004	138,737	2,435	6,434
Month ending											
3 February *	34,953	2,508	7.18%	401	1.15%	846	1,900	752	5,036	599	335
1 March	40,575	2,363	5.82%	315	0.78%	798	2,435	1,118	8,245	437	1,007
29 March	85,238	1,549	1.82%	200	0.23%	898	4,117	1,977	18,088	664	1,502
3 May *	54,128	70	0.13%	13	0.02%	175	273	410	2,250	48	210
31 May	71,525	35	0.05%	6	0.01%	237	62	115	3,511	27	112
28 June	130,922	42	0.03%	11	0.01%	629	83	178	28,321	112	246
2 August *	227,152	34	0.01%	2	<0.01%	1,251	89	209	31,589	79	427
30 August	174,594	9	0.01%	2	<0.01%	1,137	37	299	13,926	14	235
27 September	145,489	6	0.00%	1	<0.01%	938	35	866	8,416	61	259
1 November *	131,686	7	0.01%	1	<0.01%	894	56	3,508	5,632	51	662
29 November	129,164	6	<0.01%	3	<0.01%	752	42	6,255	8,252	192	884
27 December	167,756	2	<0.01%	0	_	584	64	6,317	5,471	151	555

Notes: Preliminary laboratory data is provided by participating sentinel laboratories on a weekly basis and are subject to change. Serological diagnoses are not included.

HMPV – Human metapneumovirus

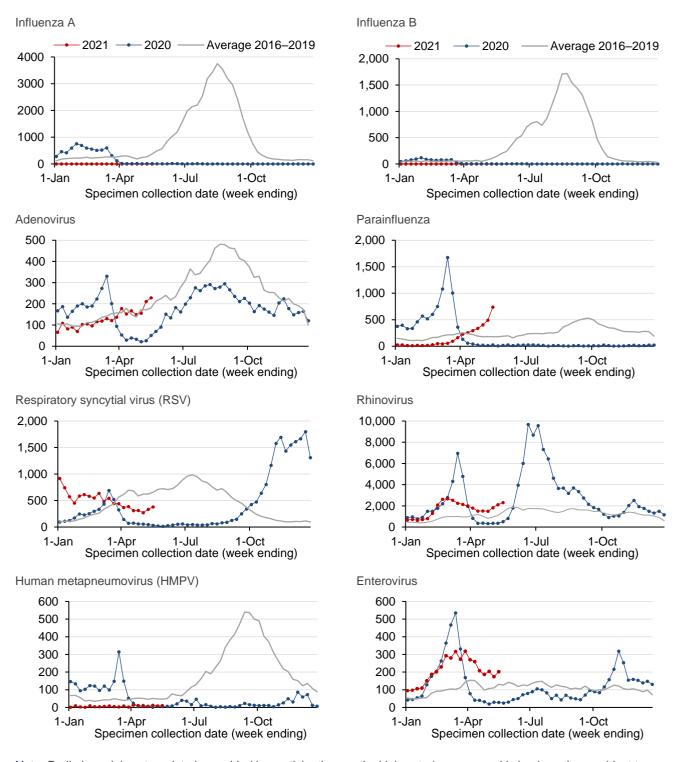
RSV - Respiratory syncytial virus

*Five-week period

30

Appendix C: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 16 May 2021

Not all samples are tested for all of the other respiratory viruses. Therefore, data presented may tend to under-represent current respiratory virus activity in NSW.



Note: Preliminary laboratory data is provided by participating sentinel laboratories on a weekly basis and are subject to change. Serological diagnoses are not included.

Appendix D: SARS-CoV-2 testing in sewage samples collected in the previous 10 weeks, week ending 22 May 2021

The NSW Sewage Surveillance Program tests untreated sewage for fragments of the COVID-19 (SARS-CoV-2) virus at sewage treatment plant locations across NSW. Griffith sewage treatment plant has been added as a new site. The table below shows results for the last 10 weeks of samples collected across all sites in NSW.

Sydney Sites		20- Mar	27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Pop.	Location	11	12	13	14	15	16	17	18	19	20
60, 514	Blue Mountains (Winmalee)										
4,681	North Richmond										
13,052	Richmond										
110,114	Penrith										
12,000	Lithgow										
19,000	South Windsor										
8,000	McGraths Hill										
69,245	Warriewood										
1,241	Brooklyn										
31,924	Hornsby Heights										
57,933	West Hornsby										
318,810	Bondi										
233,176	Cronulla										
	Malabar 1										
1,857,740	Malabar 2										
181,005	Liverpool										
98,743	West Camden										
6,882	Wallacia										
14,600	Picton										
161,200	Glenfield										
1,341,986	North Head										
	Castle Hill Cattai										
26,997	Castle Hill Glenhaven										
163,374	Quakers Hill										
119,309	Rouse Hill										
37,061	Riverstone										
163,147	St Marys										
73,686	Shellharbour										
55,000	Wollongong										
68,000	Port Kembla										
93,000	Bellambi										

COVID-19 WEEKLY SURVEILLANCE IN NSW

Epidemiological week 20, ending 22 May 2021

Sydney Netw	ork Sites	20- Mar	27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Network	Location	11	12	13	14	15	16	17	18	19	20
Bondi	Paddington Sewage Network										
Bondi	Rozelle Sewage Network										
Cronulla	Caringbah Sewage Network										
Cronulla	Miranda Sewage Network										
Malabar	Earlwood Sewage Network										
Malabar	Marrickville Sewage Network 1										
Malabar	Marrickville Sewage Network 2										
Malabar	Bardwell Creek Sewage Network										
Malabar	Arncliffe Sewage Network 1										
Malabar	Arncliffe Sewage Network 2										
Malabar	Blakehurst Sewage Network										
Malabar	Padstow Sewage Network 1										
Malabar	Padstow Sewage Network 2										
Malabar	Fairfield Sewage Pumping Station 1										
Malabar	Fairfield Sewage Pumping Station 2										
Malabar	Homebush Sewage Pumping Station										
Malabar	Olympic Park										
Malabar	Croydon Sewage Network										
Malabar	Dulwich Hill Sewage Network										
Malabar	Canterbury Sewage Network										
Malabar	Botany Sewage Network										
Malabar	Maroubra Sewage Network										
North Head	Camellia Sewage Pumping Station - North										
North Head	Camellia Sewage Pumping Station - South										
North Head	Auburn Sewage Network										
North Head	Northmead Sewage Pumping Station										
North Head	Northmead Sewage Network										
North Head	Tunks Park Sewage Network										
North Head	Vineyard Creek Sewage Network										
North Head	Boronia Park Sewage Network										
North Head	West Lindfield Sewage Network										
North Head	Lane Cove West Sewage Network										
North Head	Allambie Heights Sewage Network										
North Head	Buffalo Creek Reserve Sewage Network										
Glenfield	Minto Sewage Network										
Liverpool	Ireland Park Sewage Network										
Quakers Hill	Eastern Creek Sewage Network										
St Marys	Ropes Creek Sewage Network										

COVID-19 WEEKLY SURVEILLANCE IN NSW Epidemiological week 20, ending 22 May 2021

Regional Site	es	20- Mar	27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Pop.	Location	11	12	13	14	15	16	17	18	19	20
14,700	Bowral										
14,000	Mittagong										
9,000	Moss Vale										
1,000	Berrima										
2,000	Bundanoon										
900	Robertson										
16,068	Bombo										
7,200	Gerringong/Gerroa										
32,000	Ulladulla										
18,000	Bomaderry										
37,500	Nowra										
16,000	St Georges Basin										
11,000	Cullburra Beach										
139,500	Gosford-Kincumber										
59,060	Charmhaven										
29,300	Wyong-Toukley										
38,900	Bateau Bay										
41,300	Woy Woy										
5,000	Perisher										
8,400	Thredbo										
3,000	Jindabyne										
8,000	Cooma										
500	Gunning										
500	Charlottes Pass										
51,750	Albury composite	С	С	С	С	С	С		С	С	С
	Albury Kremer St										
	Albury Waterview										
22,419	Goulburn										
21,000	Batemans Bay										
18,000	Moruya										
17,000	Narooma										
8,000	Eden										
15,500	Merimbula										
5,000	Bermagui										
7,800	Deniliquin										
48,000	Queanbeyan										
50,000	Wagga Wagga composite	С	С	С	С	С	С	С	С	С	С
	Wagga Wagga- inlet 1										
	Wagga Wagga- inlet 2										
	Wagga Wagga -Kooringal STP										
0.070	Griffith										
2,050	Bourke										
	Nyngan										

COVID-19 WEEKLY SURVEILLANCE IN NSW

Epidemiological week 20, ending 22 May 2021

Regional Site	es (con't)	20- Mar	27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Pop.	Location	11	12	13	14	15	16	17	18	19	20
40,000	Orange										
12,000	Mudgee										
36,603	Bathurst										
19,000	Broken Hill										
500	Dareton										
11,600	Parkes										
37,000	Dubbo										
24,000	Armidale										
45,000	Tamworth										
	Muswellbrook										
	Narrabri										
	Tenterfield										
	Urbenville										
10,000	Moree										
26,394	Taree										
12,000	Forster										
7,582	Hallidays Point										
5,180	Harrington										
10,715	Hawks Nest										
225,834	Hunter - Burwood Beach										
60,000	Hunter - Shortland										
115,000	Hunter - Belmont										
60,000	Hunter - Morpeth										
58,300	Hunter - Boulder Bay										
35,000	Hunter - Raymond Terrace										
32,000	Hunter - Dora Creek										
42,000	Hunter - Toronto										
70,000	Hunter - Edgeworth										
2,500	Hunter - Karuah										
3,000	Hunter -Dungog										
21,500	Hunter - Kurri Kurri										
32,000	Hunter - Cessnock										
40,000	Hunter - Farley										
32500	Lismore composite			С		С	С	С	С	С	С
17,000	East Lismore										
15,500	South Lismore										
18,958 (both	Byron Bay - Ocean Shores										
plants total)	Byron Bay										
2,000	Bangalow										
3,500	Mullumbimby										
31,104	Ballina										
7,700	Lennox Head										
16,000	Tweed - Murwillumbah										

Regional S	Regional Sites (con't)		27- Mar	3- Apr	10- Apr	17- Apr	24- Apr	1- May	8- May	15- May	22- May
Pop.	Location	11	12	13	14	15	16	17	18	19	20
75,000	Tweed - Banora Point										
25,000	Tweed - Kingscliff										
18,000	Tweed - Hastings Point										
18,550	Grafton composite	С	С		С	С	С	С	С	С	
12,250	North Grafton										
6,300	South Grafton										
6,500	Yamba										
8,730	Nambucca Heads										
54,370	Port Macquarie										
7,010	Bonny Hills										
8,540	Dunbogan										
12,105	South West Rocks										
4,052	Crescent Head										
12,000	Urunga										
50,000	Coffs Harbour										

Sampling commenced week ending 18 July 2020

not sampled or analysed
SARS-CoV-2 not detected
SARS-CoV-2 detected

site moved to composite or ceased

composite of the separate influent samples

n result from network sites

Glossary

Term	Description
Case	A person infected who has tested positive to a validated specific SARS-CoV-2 nucleic acid test or has had the virus identified by electron microscopy or viral culture. Blood tests (serology) is only used in special situations following a public health investigation and require other criteria to be met in addition to the positive serology result (related to timing of symptoms and contact with known COVID-19 cases). Case counts include: - NSW residents diagnosed in NSW who were infected overseas or in Australia (in NSW or interstate), and - interstate or international visitors diagnosed in NSW who were under the care of NSW Health at the time of diagnosis
Health care workers	Individuals who work within a hospital or other healthcare settings, including staff in direct or indirect contact with patients or infectious materials.
Incubation period	The time in which the case was infected. The incubation period for COVID-19 is between 1 and 14 days prior to symptom onset.
Overseas acquired case	Case who travelled overseas during their incubation period. While testing rates in NSW are high and case counts are low, cases who have travelled overseas in their incubation period are considered to have acquired their infection overseas.
Interstate acquired case	Case who travelled interstate during their infection and the public health investigation concludes the infection was likely acquired interstate.
Cluster	Group of cases sharing a common source of infection or are linked to each other in some way.

Dates used in COVID-19 reporting

Event	Date name	Source
Person first starts to feel unwell	Date of symptom onset	Public health staff interview all cases at the time of diagnosis. This is the date provided to NSW Health by the case.
Person has a swab taken	Date of test	This date is provided to NSW Health by the laboratory when the test result (positive or negative) is notified.
Laboratory notifies NSW Health of result	Date of notification	This date is provided to NSW Health by the laboratory. Laboratories prioritise notification of positive results to allow prompt public health action. Positive cases: The date of notification is collected by NSW Health on the day of notification. Cases are informed of their diagnosis by their doctor or public health staff as soon as the result is available. The date of notification to NSW Health is usually the same day as the date the case finds out about the result. Negative cases: Some laboratories notify NSW Health of negative results in batches at regular intervals. For these laboratories the date of notification to NSW Health does not reflect the date the negative result was available at the laboratory. NSW Health does not collect information on the date the person was informed of the result.