

COVID-19 WEEKLY SURVEILLANCE IN NSW

EPIDEMIOLOGICAL WEEK 18, ENDING 8 May 2021

Published 13 May 2021

Overview

Number and proportion of COVID-19 cases in NSW by likely source of infection to week ending 8 May 2021

| | 20: | 20 | 2021 | | | | |
|---------------------|--------------|--------------|--------------------------------------|---|-----------------------------|--|--|
| | Jan – Jun | July – Dec | year to date 1 Jan – 8 May | last 4 weeks 10 April – 8 May | last 7 days 2 May– 8 May | | |
| Overseas acquired | 1,893 (59%) | 714 (46%) | 551 (92%) | 193 (97%) | 47 (96%) | | |
| Interstate acquired | 67 (2%) | 23 (2%) | 0 | 0 | 0 | | |
| Locally acquired | 1,237 (39%) | 808 (52%) | 51 (8%) | 6 (3%) | 2 (4%) | | |
| Total | 3,197 (100%) | 1,545 (100%) | 602 (100%) | 199 (100%) | 49 (100%) | | |
| Deaths | 52 | 4 | 0 | 0 | 0 | | |

Summary for the week ending 8 May 2021

- There were two locally acquired cases reported in the week ending 8 May 2021. One case with an unknown source and their household contact. Source investigation and public health action is ongoing.
- The number of cases reported in overseas returned travellers decreased this week (down 20%) compared to the previous week.
- In the four-week period ending 8 May 2021, 36% (69/193) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351 and P1).
- In the four weeks ending 8 May 2021, six (3%) overseas acquired COVID-19 cases self-reported being fully vaccinated prior to arrival in Australia.
- Testing rates increased across all local health districts compared to the previous week (up 36%).
- The NSW Sewage Surveillance Program reported six detections taken from the Bondi and Malabar treatment plants, and the sewage network at Paddington (within the Bondi catchment), and Botany, Marrickville 1 and Marrickville 2 (within the Malabar catchment). Bondi and Malabar catchments (including Marrickville 2 and Botany) contain quarantine hotels where active cases are known to have stayed. No active cases were identified in the Marrickville 1 sewage catchment area, the detection may indicate the presence of an undiagnosed case or of people in the community who are no longer infectious but have recently tested positive for COVID-19. 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 8 May 2021

Locally acquired cases in isolation during their infectious period

| | Week of reporting | | | |
|---|-------------------|-----|-------------------|---|
| | Week ending 8 May | | Week ending 1 May | |
| | Count % | | Count | % |
| Locally acquired cases | 2 | | 0 | |
| Cases with symptoms at diagnosis | 1 | 50% | - | |
| Number in isolation at least 48 hours before symptoms | 0 | 0% | | |
| Cases reporting no symptoms at diagnosis | 1 | 50% | - | |
| Number in isolation at least 48 hours before test | 0 | 0% | | |

Interpretation: In the week ending 8 May, one case (50%) reported symptoms at the time of diagnosis, and the other case sought testing because they were a household contact of the symptomatic case.

Measures of Public Health Action

| | Week of reporting | | | | |
|---|-------------------|-------------------|--|--|--|
| | Week ending 8 May | Week ending 1 May | | | |
| Proportion locally-acquired cases notified to NSW Health by the laboratory within 24 hours | 100% | - | | | |
| Locally-acquired cases interviewed by public health staff within 1 day of notification to NSW Health | 100% | - | | | |
| Close contacts (identified by the case) contacted by public health within 48 hours of case notification | 100% | - | | | |

Interpretation: In the week ending 8 May, both locally acquired cases were interviewed within a day of notification of positive result and all named close contacts were contacted by public health within 48 hours of case notification.

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COVID-19 Vaccination program

- Australian Government Department of Health reports the number of vaccine doses administered across Australia —
 Daily COVID-19 vaccine rollout numbers
- 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

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.

Overseas 200 Interstate Number of confirmed COVID-19 cases Locally acquired 150 50 Way the the transfer of

Figure 1. COVID-19 cases by likely infection source and illness onset, NSW, from 25 January 2020 to 8 May 2021

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

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Interpretation: Between 25 January 2020 and 8 May 2021, there were 5,344 confirmed COVID-19 cases. Of those, 3,158 (59%) were overseas acquired, 90 (2%) were interstate acquired, and 2,096 (39%) were locally acquired.

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Symptom onset date

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COVID-19 cases reported in 2020

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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 8 May 2021

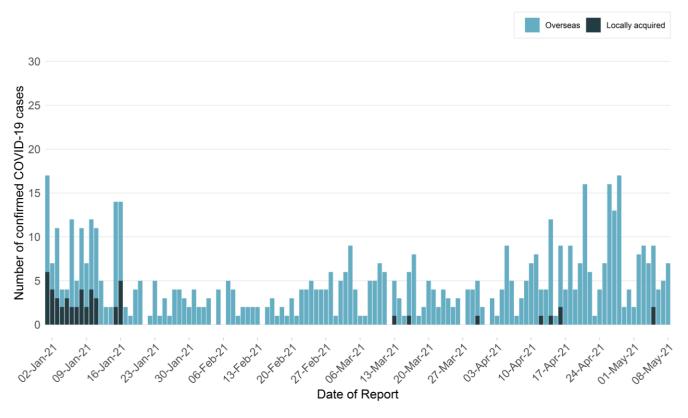


Table 1. COVID-19 cases and tests reported, NSW, from 1 January 2021 to 8 May 2021

| | Week ending 8 May | Week ending 1 May | % change | Total 2021 |
|---|----------------------|----------------------|----------|---------------|
| Number of cases | 49 | 61 | ↓ 20% | 602 |
| Overseas acquired | 47 | 61 | ↓ 23% | 551 |
| Interstate acquired | 0 | 0 | 0 | 0 |
| Locally acquired | 2 | 0 | - | 51 |
| No epidemiological links to other cases or clusters | 1 | 0 | - | 7 |
| Number of deaths | 0 | 0 | - | 0 |
| Number of tests | 97,792 | 71,762 | ↑ 36% | 1,609,314 |

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

This week of the 51 locally acquired COVID-19 cases reported between 1 January and 8 May 2021:

- 11 were associated with the Avalon cluster
- o 31 were associated with the Berala cluster
- Two, a guest and a security guard, were associated with the 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 In a separate transmission event, one other person acquired their infection while in hotel quarantine in mid-April.
- o A case and their household contact from South Eastern Sydney in early May, source investigation is ongoing.

Interpretation: Since the elimination of local transmission in January, nine locally acquired cases have been identified and linked to five incursions into NSW. The majority of cases reported in the last four weeks in NSW were overseas acquired (193/199, 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.

Currently, there are three internationally recognised VoCs, B.1.1.7, B.1.351 and P.1, and two additional VoCs, B.1.427 and B.1.429, recognised by the US Centre of Disease Control. Australia's Communicable Diseases Genomics Network (CDGN) only recognises the three internationally recognised VoCs, these three VoC's B.1.1.7, B.1.351 and P.1 were first identified in the United Kingdom, South Africa and Brazil, respectively. All three 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 three of the VoCs, in NSW.

On the 11th of May 2021, WHO reclassified SARS-CoV-2 B.1.617 as a VoC. Data on these cases will be included in next week's report.

In the four weeks ending 8 May 2021, there have been:

- 69 returned travellers were diagnosed with a VoC. Of these 69 cases, 57 (83%) were diagnosed with the B.1.1.7 variant, 10 (14%) with the B.1.351 variant, and two (3%) with the P.1 variant. Two thirds (67%) of these cases likely acquired their VoC in either India (26, 38%), Bangladesh (10, 14%) or the USA (10, 14%). The remaining cases likely acquired their infections in Pakistan (8, 12%), Iraq (3, 4%) and seven countries with 1 case reported each Brazil, Canada, Ethiopia, Jordan, Panama, Saudi Arabia and Sri Lanka. Five VoC cases were found in international flight crew members whose country of disease acquisition is unknown.
- Four locally acquired COVID-19 cases diagnosed with a VoC; three diagnosed with the B.1.1.7 variant and one with the B.1.351 variant.

Table 2a. Overseas acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 8 May 2021

| | | Week e | 29 Nov to | Total since 29 | | |
|------------------------------------|--------|--------|-----------|----------------|--------|----------|
| | 8 May* | 1 May | 24 Apr | 17 Apr | 10 Apr | November |
| Total overseas acquired cases | 47 | 61 | 47 | 38 | 545 | 738 |
| Overseas cases with VoC | 12 | 17 | 20 | 20 | 117 | 186 |
| B.1.1.7 | 12 | 17 | 16 | 12 | 98 | 155 |
| B.1.351 | 0 | 0 | 3 | 7 | 15 | 25 |
| P.1 | 0 | 0 | 1 | 1 | 4 | 6 |
| % overseas acquired cases with VoC | 26% | 28% | 43% | 53% | 21% | 25% |

Interpretation: In the week ending 8 May, 5 returned travellers were reported as having a COVID-19 VoC, which is 11% (5/47) of all cases reported this week.

Table 2b. Locally acquired COVID-19 cases by VoC and week reported, NSW, 29 November 2020 to 8 May 2021

| | Week ending | | | | 29 Nov to | Total since 29 |
|-----------------------------------|-------------|-------|--------|--------|-----------|----------------|
| | 8 May* | 1 May | 24 Apr | 17 Apr | 10 Apr | November |
| Total locally acquired cases | 2 | 0 | 0 | 4 | 221 | 227 |
| Local cases with VoC | 0 | 0 | 0 | 4 | 3 | 7 |
| B.1.1.7 | 0 | 0 | 0 | 3 | 3 | 6 |
| B.1.351 | 0 | 0 | 0 | 1 | 0 | 1 |
| P.1 | 0 | 0 | 0 | 0 | 0 | 0 |
| % locally acquired cases with VoC | 0% | - | - | 100% | 1% | 3% |

Interpretation: Four of the locally acquired cases diagnosed with COVID-19 in the last four weeks were in hotel quarantine and were reported as having a COVID-19 VoC.

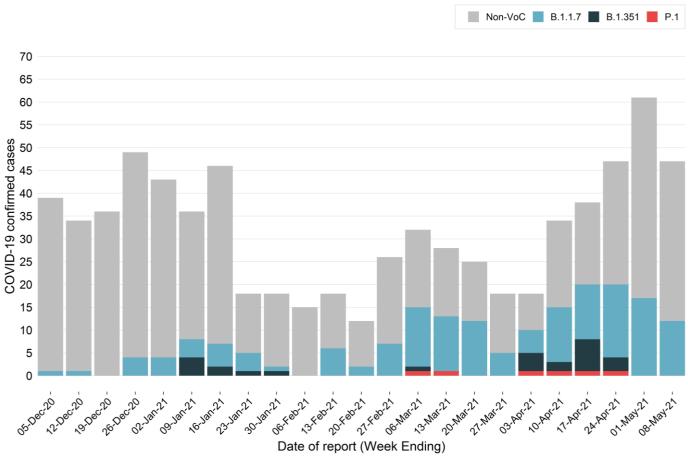


Figure 3. Confirmed overseas acquired COVID-19 cases by VoC type, NSW, 29 November to 8 May 2021

*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 178 returned travellers diagnosed with a COVID-19 VoC. In the last four weeks 36% (69/193) of overseas acquired cases have been identified as having COVID-19 variants of concern (B.1.1.7, B.1.351 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 3. Locally acquired COVID-19 cases by LHD of residence and week reported, NSW, 4 April to 8 May 2021

| | | Week e | nding | | | Days since last |
|-----------------------|-------|--------|--------|--------|-------|-----------------|
| Local Health District | 8 May | 1 May | 24 Apr | 17 Apr | Total | case reported |
| Central Coast | 0 | 0 | 0 | 0 | 0 | 130 |
| Illawarra Shoalhaven | 0 | 0 | 0 | 0 | 0 | 126 |
| Nepean Blue Mountains | 0 | 0 | 0 | 0 | 0 | 235 |
| Northern Sydney | 0 | 0 | 0 | 1 | 1 | 22 |
| South Eastern Sydney | 2 | 0 | 0 | 0 | 2 | 3 |
| South Western Sydney | 0 | 0 | 0 | 0 | 0 | 120 |
| Sydney | 0 | 0 | 0 | 0 | 0 | 117 |
| Western Sydney | 0 | 0 | 0 | 0 | 0 | 112 |
| Far West | 0 | 0 | 0 | 0 | 0 | 401 |
| Hunter New England | 0 | 0 | 0 | 3 | 3 | 22 |
| Mid North Coast | 0 | 0 | 0 | 0 | 0 | 382 |
| Murrumbidgee | 0 | 0 | 0 | 0 | 0 | 243 |
| Northern NSW | 0 | 0 | 0 | 0 | 0 | 39 |
| Southern NSW | 0 | 0 | 0 | 0 | 0 | 201 |
| Western NSW | 0 | 0 | 0 | 0 | 0 | 282 |
| NSW* | 2 | 0 | 0 | 4 | 6 | 3 |

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

Interpretation: In the week ending 8 May, there were two locally acquired cases. The cases are household contacts of each other; a man and woman residents of South Eastern Sydney LHD. Whole genome sequencing showed that these cases shared an identical viral sequence to a returned overseas traveller from the USA.

Despite extensive investigations, NSW Health has not identified how the initial case was exposed to COVID-19. They may have acquired the infection through a brief contact with a currently unidentified person who was infectious in the community, and investigations are continuing. Subsequent public health investigation has 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 to date.

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.

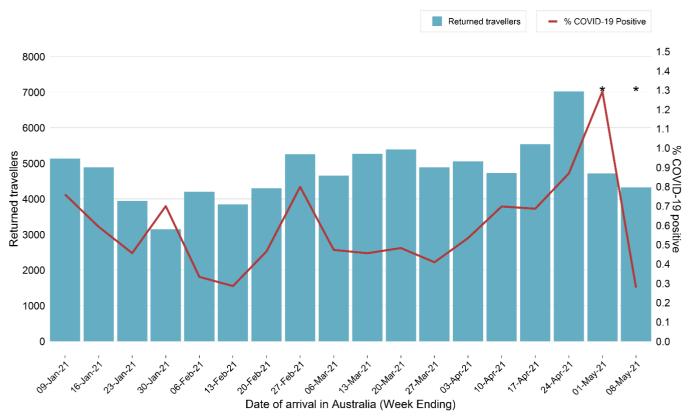
Section 5: COVID-19 in returned travellers

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 8 May 2021



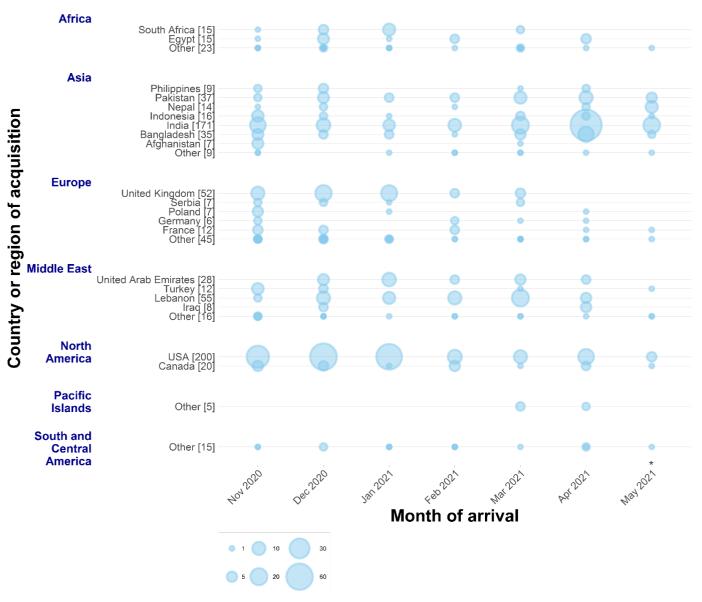
*Returned travellers entering Australia in the past 14 days are still in quarantine and may return a positive result prior to the end of their hotel quarantine period.

Interpretation: Since 3 January 2021, there has been on average 680 people screened on arrival through Sydney International Airport daily. In the last four weeks, 193 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 8 May 2021



^{*} Data for current month is incomplete

Interpretation: In April 2021, there has been a significant increase in detections of COVID-19 in travellers from India. 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 193 COVID-positive travellers in NSW. The table below lists of countries of acquisition for these travellers.

Table 4. Top countries of acquisition for overseas acquired cases that have tested positive in the last four weeks, 4 April 2021 to 8 May 2021

| Country of acquisition of COVID-19 | Number (%) of cases in the last four weeks |
|------------------------------------|--|
| India | 100 (52%) |
| USA | 14 (7%) |
| Pakistan | 13 (7%) |
| Bangladesh | 12 (6%) |
| Nepal | 10 (5%) |
| Egypt | 4 (2%) |
| Lebanon | 4 (2%) |
| Indonesia | 3 (2%) |
| Iraq | 3 (2%) |
| Canada | 2 (1%) |
| Papua New Guinea | 2 (1%) |
| Philippines | 2 (1%) |
| Saudi Arabia | 2 (1%) |
| Other | 28 (15) |
| Total | 193 |

Interpretation: In the last four weeks, travellers returning from India accounted for the largest number of overseas acquired cases (100, 52%), followed by travellers returning from the USA (14,7%), Pakistan (13, 7%) and Bangladesh (12,6%).

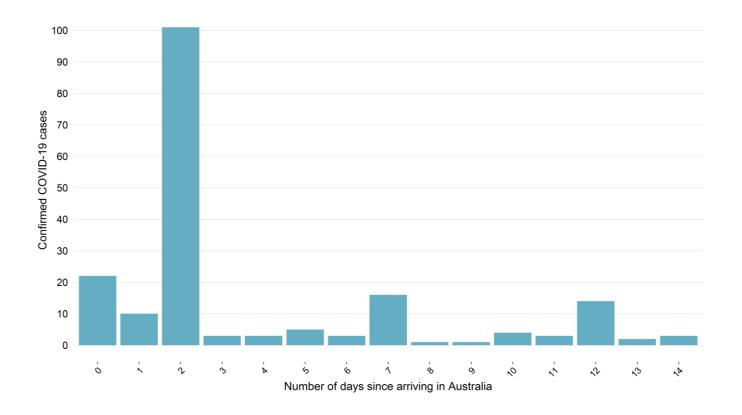
Cases among returned travellers in quarantine

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, 4 April to 8 May 2021



Interpretation: In the four weeks ending 8 May 2021, 69% 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 5a. Overseas acquired COVID-19 cases by number of self-reported COVID-19 vaccine doses received and week reported, NSW, 1 March to 8 May 2021

| Number of self-reported | | Week e | ending | | 1 Mar to | |
|-----------------------------------|-------|--------|--------|--------|----------|--------|
| vaccination doses received | 8 May | 1 May | 24 Apr | 17 Apr | 10 Apr | |
| Total overseas acquired cases | 47 | 61 | 47 | 38 | 149 | 342 |
| Two doses | 0 | 1 | 2 | 1 | 2 | 6 |
| One dose | 3 | 1 | 6 | 3 | 4 | 17 |
| None | 44 | 58 | 38 | 32 | 137 | 309 |
| Unknown | 0 | 1 | 1 | 2 | 6 | 10 |
| Number (%) cases fully vaccinated | 0% | 2 (3%) | 3 (6%) | 1 (3%) | 0 | 6 (2%) |

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

Table 5b. Locally acquired COVID-19 cases by number of self-reported COVID-19 vaccine doses received and week reported, NSW, 1 March to 8 May 2021

| Number of self-reported | | Week 6 | ending | | 1 Mar to | Total since |
|-----------------------------------|-------|--------|--------|--------|----------|--------------|
| vaccination doses received | 8 May | 1 May | 24 Apr | 17 Apr | 10 Apr | 1 March 2021 |
| Total locally acquired cases | 2 | 0 | 0 | 4 | 3 | 9 |
| Two doses | 0 | 0 | 0 | 0 | 0 | 2 |
| One dose | 0 | 0 | 0 | 1 | 1 | 0 |
| None | 2 | 0 | 0 | 3 | 2 | 7 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 |
| Number (%) cases fully vaccinated | 0 | - | - | 0 | 0 | 0 |

Interpretation: No locally acquired cases since 1 March 2021 reported 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.

In total, 49 Aboriginal people have been diagnosed with COVID-19, representing 1% of all cases in NSW. Aboriginal status is collected by public health staff on interview with the case at the time of diagnosis, those who test negative are not interviewed. Aboriginal status for those tested can be ascertained through linkage with other health information systems but there is a delay in getting this information. Results of the most recent linkage are available for people tested up to 3 April 2021, with Aboriginal status ascertained for approximately 90% of all COVID-19 test records.

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.

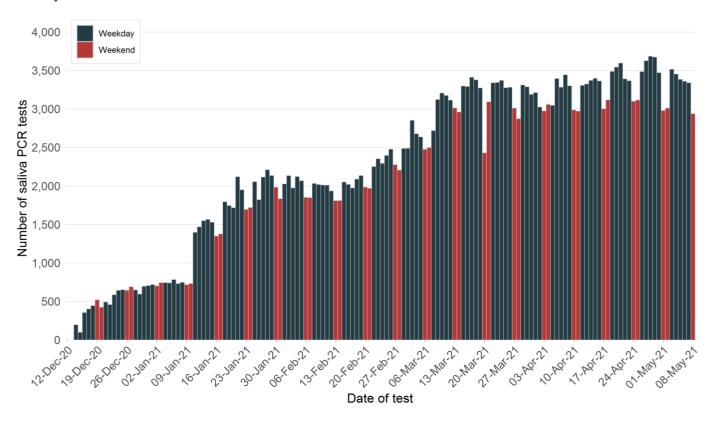
There were no locally acquired cases of COVID-19 reported in HCWs in the week ending 8 May 2021.

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



^{*} The number of saliva PCR tests on 8 May 2021 is incomplete due to delays in reporting negative results.

Interpretation: Since screening of quarantine workers began in December 2020, a total of 328,203 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 8 May.

Table 6. Deaths as a result of COVID-19, by age group, NSW, from 25 January 2020 to 8 May 2021

| Age group (years) | Number of deaths | Number of cases | Case fatality rate |
|-------------------|------------------|-----------------|--------------------|
| 0–4 | 0 | 141 | 0% |
| 5–11 | 0 | 133 | 0% |
| 12–17 | 0 | 167 | 0% |
| 18–29 | 0 | 1,205 | 0% |
| 30–49 | 0 | 1,782 | 0% |
| 50–59 | 1 | 707 | 0.1% |
| 60–69 | 4 | 655 | 0.6% |
| 70–79 | 15 | 390 | 3.8% |
| 80+ | 36 | 164 | 22.0% |
| Total | 56 | 5,344 | 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.

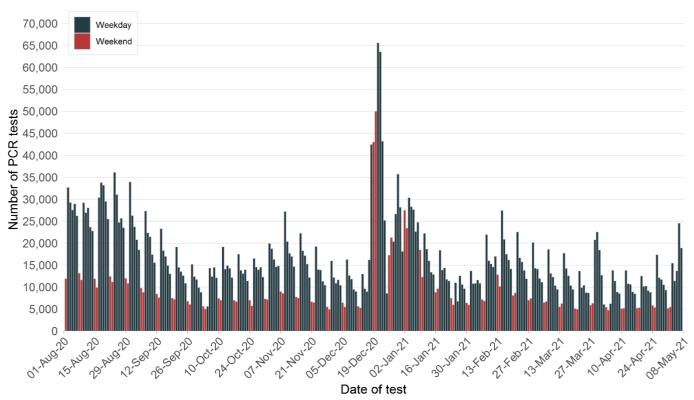
Section 9: COVID-19 testing in NSW

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 8. Number of PCR tests per day, NSW, 11 July 2020 to 8 May 2021



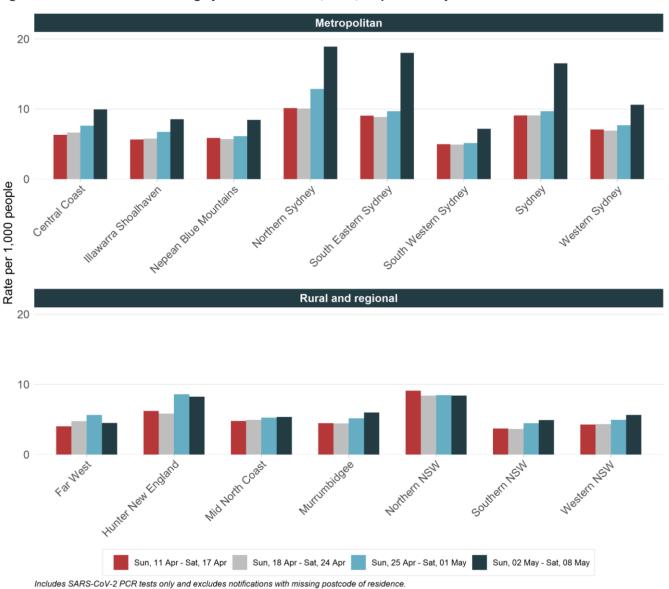
Includes SARS-CoV-2 PCR tests only and excludes repeat positive tests for an individual.

Interpretation: Testing numbers increased in the week ending 8 May (up 36%) compared to the previous week. The average daily testing rate increased at 1.7 per 1,000 people compared to last week which was 1.3 per 1,000 people in NSW.

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

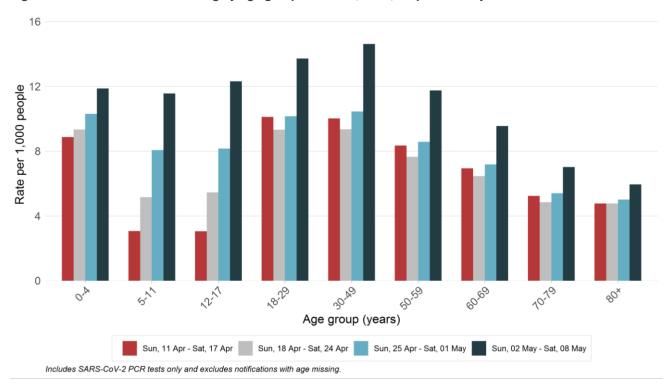
Figure 9. Rates of COVID-19 testing by LHD of residence, NSW, 4 April to 8 May 2021



Interpretation: State-wide weekly testing rates in the week ending 8 May increased for all LHDs when compared to the previous week (12.1 per 1,000 people compared to 8.9 per 1,000 people). large increases in Northern Sydney, South Eastern Sydney and Sydney LHDs can be attributed to the community response of the reporting of two local confirmed cases in South Eastern Sydney LHD.

Testing by age group

Figure 10. Rates of COVID-19 testing by age group and week, NSW, 4 April to 8 May 2021



Interpretation: In the week ending 8 May, testing rates increased for all age groups.

Section 10: NSW Sewage Surveillance Program

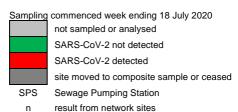
The NSW Sewage Surveillance Program tests untreated sewage for fragments of the COVID-19 (SARS-CoV-2) virus at sewage treatment plant locations across NSW. In Sydney, testing is undertaken from both the sewage treatment plant (inlet sites) and sites within the network (network sites). Testing sewage 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 7. Locations with SARS-CoV-2 detections in sewage samples in the last 10 weeks, NSW, 28 February to 8 May 2021

| | | 6- Mor | 13- Mar | 20- Mar | 27- Mar | 3- | 10- | 17- | 24- | 1- Mov | 8- May |
|---------------|-----------------------------------|-----------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pop. | Location | Mar 9 | 10 | 11 | 12 | Apr 13 | Apr 14 | Apr 15 | Apr 16 | May 17 | May 18 |
| | age treatment plant (inlet sites) | | | | | | | | | | |
| 318,810 | Bondi | | | | | | | | | | |
| 4.057.740 | 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 | | • | • | • | • | • | • | | | |
| 225,834 | Hunter – Burwood Beach | | | | | | | | | | |
| 15,500 | Merimbula | | | | | | | | | | |
| 7,700 | Lennox Head | | | | | | | | | | |



Interpretation: In the week ending 8 May, 147 sewage samples were tested for fragments of SARS-CoV-2. Of these, there were six detections – taken from the Bondi and Malabar treatment plants, and the sewage network at Paddington (within the Bondi catchment), and Botany, Marrickville 1 and Marrickville 2 (within the Malabar catchment). Bondi and Malabar catchments (including Marrickville 2 and Botany) contain quarantine hotels where active cases are known to have stayed. No active cases were identified in the Marrickville 1 sewage catchment area, the detection may indicate the presence of undiagnosed cases or people in the community who are no longer infectious but have recently tested positive for COVID-19. 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 2 May 2021

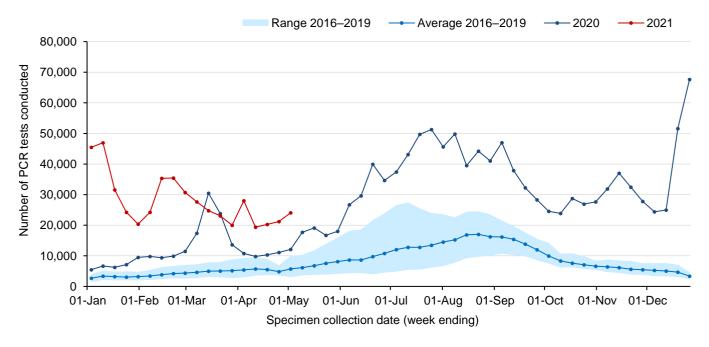
In NSW, routine surveillance for influenza and other respiratory viruses is conducted through sentinel laboratories. The number of all PCR tests (positive and negative) are provided to NSW Health by participating laboratories each week. Testing counts reflect the number of influenza PCR tests conducted;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

The most recent data available is for testing carried out to 2 May 2021. A total of 502,734 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 11. Testing for influenza by week, NSW, 1 January 2016 to 2 May 2021



Interpretation: In the week ending 2 May, the number of influenza tests increased with 24,101 influenza tests performed across participating laboratories compared with 21,195 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.

Range 2016-2019 Average 2016-2019 2020 -2021 50 Percent positive (%) 40 30 20 10 0 01-Feb 01-Mar 01-Apr 01-May 01-Jun 01-Jul 01-Aug 01-Sep 01-Oct 01-Nov 01-Dec Specimen collection date (week ending)

Figure 12. Proportion of tests positive for influenza, NSW, 1 January 2016 to 2 May 2021

Interpretation: In the week ending 2 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. Of the 5 PCR positive flu cases in NSW in 2021, none were return travellers from overseas. 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.

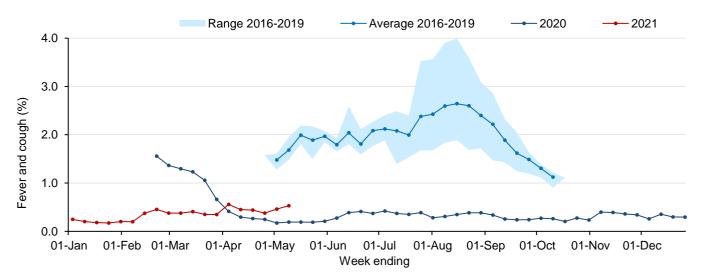


Figure 13. Proportion of FluTracker participants reporting influenza-like illness, NSW, 1 January 2016 to 9 May 2021

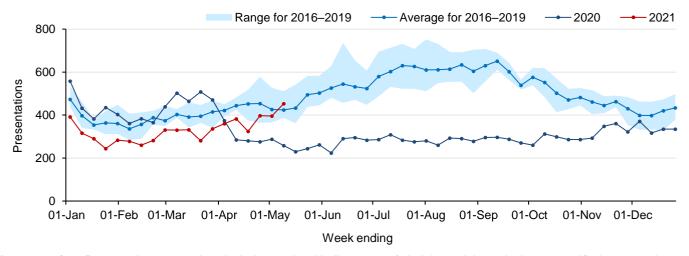
Interpretation: In NSW in the week ending 9 May of the 20,983 people surveyed, 111 people (0.53%) reported flu-like symptoms. In the last four weeks, 46% (189/410) of new cases of flu-like illness reported having a COVID-19 test. The proportion of people being tested for COVID-19 has been steadily decreasing 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.

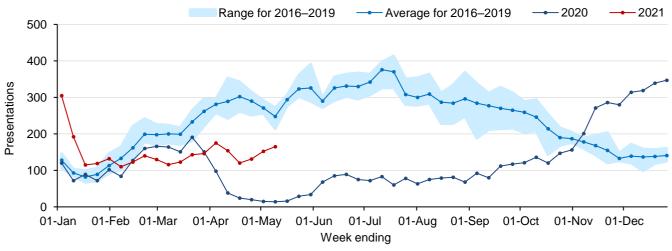
The figures below show weekly pneumonia and bronchiolitis presentations to Emergency Departments in NSW, using PHREDSS². The red line shows the weekly counts for 2021, the dark blue line showing counts for 2020, the light blue line showing the average for 2016 to 2019 and the shaded area showing the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

Figure 14. Emergency Department pneumonia presentations, NSW, 1 January 2016 to 9 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 9 May, pneumonia presentations increased above the seasonal average for this time of year.

Figure 15. Emergency Department bronchiolitis presentations, NSW, 1 January 2016 to 9 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 9 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 | ending | | To <u>ta</u> | l since |
|--------------------------|--|-------|----------------------------------|--------|----------------------------------|--------------|----------------------------------|
| 1 11 | | 08- | May | 01- | Мау | | 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 | 3,510 | 9.95 | 2,694 | 7.63 | 211,213 | 598.57 |
| | Balranald | 10 | 4.28 | 7 | 2.99 | 699 | 298.97 |
| | Broken Hill | 87 | 4.98 | 119 | 6.81 | 9,347 | 534.76 |
| Far West | Central Darling | 8 | 4.35 | 8 | 4.35 | 567 | 308.32 |
| | Wentworth | 31 | 4.4 | 36 | 5.1 | 3,398 | 481.78 |
| | LHD Total | 136 | 4.51 | 170 | 5.64 | 14,011 | 464.8 |
| | Armidale Regional | 197 | 6.4 | 179 | 5.82 | 14,794 | 480.65 |
| | Cessnock | 244 | 4.07 | 265 | 4.42 | 21,830 | 363.92 |
| | Dungog | 75 | 7.96 | 59 | 6.26 | 3,631 | 385.33 |
| | Glen Innes Severn | 21 | 2.37 | 31 | 3.49 | 2,675 | 301.54 |
| | Gunnedah | 46 | 3.63 | 40 | 3.15 | 4,611 | 363.61 |
| | Gwydir | 13 | 2.43 | 9 | 1.68 | 1,007 | 188.12 |
| | Inverell | 89 | 5.27 | 80 | 4.74 | 6,077 | 359.8 |
| | Lake Macquarie | 2,279 | 11.07 | 2,387 | 11.59 | 130,829 | 635.4 |
| | Liverpool Plains | 43 | 5.44 | 46 | 5.82 | 3,010 | 380.87 |
| | Maitland | 887 | 10.41 | 942 | 11.06 | 58,923 | 691.86 |
| Hunter New | Mid-Coast | 464 | 4.94 | 395 | 4.21 | 34,798 | 370.84 |
| England | Moree Plains | 53 | 4 | 47 | 3.54 | 4,257 | 321.02 |
| - | Muswellbrook | 82 | 5.01 | 75 | 4.58 | 6,444 | 393.48 |
| | Narrabri | 42 | 3.2 | 21 | 1.6 | 3,591 | 273.39 |
| | Newcastle | 2,089 | 12.62 | 2,428 | 14.66 | 127,423 | 769.6 |
| | Port Stephens | 541 | 7.36 | 525 | 7.14 | 40,557 | 551.94 |
| | Singleton | 142 | 6.05 | 170 | 7.25 | 13,349 | 568.99 |
| | Tamworth Regional | 437 | 6.99 | 395 | 6.32 | 32,087 | 513.06 |
| | Tenterfield | 29 | 4.4 | 21 | 3.18 | 1,672 | 253.56 |
| | Upper Hunter Shire | 59 | 4.16 | 62 | 4.37 | 5,870 | 413.96 |
| | Uralla | 22 | 3.66 | 18 | 2.99 | 1,802 | 299.73 |
| | Walcha | 7 | 2.23 | 8 | 2.55 | 1,296 | 413.53 |
| | LHD Totaf | 7,852 | 8.24 | 8,196 | 8.61 | 520,116 | 546.12 |
| | Kiama | 217 | 9.28 | 161 | 6.88 | 14,890 | 636.71 |
| Illawarra | Shellharbour | 542 | 7.4 | 507 | 6.92 | 45,229 | 617.6 |
| Shoalhaven | Shoalhaven | 595 | 5.63 | 471 | 4.46 | 49,780 | 471.19 |
| | Wollongong | 2,231 | 10.23 | 1,694 | 7.77 | 144,708 | 663.45 |
| | LHD Totaf | 3,585 | 8.54 | 2,833 | 6.75 | 254,607 | 606.76 |
| | Bellingen | 76 | 5.85 | 68 | 5.23 | 5,705 | 438.98 |
| | Coffs Harbour | 360 | 4.66 | 359 | 4.65 | 30,141 | 390.04 |
| Mid North | Kempsey | 174 | 5.85 | 184 | 6.19 | 13,150 | 442.09 |
| Coast | Nambucca | 79 | 3.99 | 95 | 4.8 | 7,137 | 360.36 |
| | Port Macquarie-Hastings | 515 | 6.09 | 481 | 5.69 | 38,424 | 454.59 |
| | LHD Total | 1,204 | 5.34 | 1,187 | 5.26 | 94,557 | 419.01 |
| Murrumbidgee | Albury | 414 | 7.62 | 350 | 6.44 | 25,932 | 477.1 |
| | | | | | | | |

| | | | Week | ending | | Tota | since |
|--------------------------|-------------------------------|-------|----------------------------------|--------|----------------------------------|---------|----------------------------------|
| | | 08- | Мау | 01-1 | Мау | | ry 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 |
| | Berrigan | 11 | 1.26 | 30 | 3.43 | 2,490 | 284.57 |
| | Bland | 24 | 4.02 | 19 | 3.18 | 2,021 | 338.41 |
| | Carrathool | 6 | 2.14 | 3 | 1.07 | 447 | 159.7 |
| | Coolamon | 22 | 5.07 | 18 | 4.15 | 1,804 | 415.57 |
| | Cootamundra-Gundagai Regional | 45 | 4.01 | 35 | 3.12 | 4,085 | 363.6 |
| | Edward River | 23 | 2.53 | 37 | 4.07 | 3,416 | 376.05 |
| | Federation | 48 | 3.86 | 72 | 5.79 | 4,265 | 342.93 |
| | Greater Hume Shire | 74 | 6.87 | 52 | 4.83 | 4,419 | 410.54 |
| | Griffith | 179 | 6.62 | 163 | 6.03 | 12,703 | 469.98 |
| | Hay | 5 | 1.7 | 5 | 1.7 | 696 | 236.01 |
| | Hilltops | 95 | 5.08 | 94 | 5.03 | 7,394 | 395.32 |
| | Junee | 26 | 3.89 | 19 | 2.84 | 1,933 | 289.24 |
| | Lachlan ¹ | 8 | 1.32 | 4 | 0.66 | 1,251 | 205.93 |
| | Leeton | 49 | 4.28 | 41 | 3.58 | 3,725 | 325.47 |
| | Lockhart | 20 | 6.09 | 14 | 4.26 | 1,083 | 329.68 |
| | Murray River | 4 | 0.33 | 4 | 0.33 | 1,095 | 90.36 |
| | Murrumbidgee | 11 | 2.81 | 19 | 4.85 | 1,116 | 284.91 |
| | Narrandera | 9 | 1.53 | 12 | 2.03 | 1,448 | 245.47 |
| | Snowy Valleys | 71 | 4.9 | 63 | 4.35 | 5,740 | 396.44 |
| | Temora | 16 | 2.54 | 17 | 2.7 | 1,728 | 273.98 |
| | Wagga Wagga | 629 | 9.64 | 471 | 7.22 | 37,172 | 569.62 |
| | LHD Totaf | 1,782 | 5.98 | 1,538 | 5.16 | 125,119 | 419.71 |
| | Blue Mountains | 819 | 10.35 | 587 | 7.42 | 63,176 | 798.5 |
| Nepean Blue | Hawkesbury | 586 | 8.71 | 475 | 7.06 | 43,190 | 641.79 |
| Mountains | Lithgow | 87 | 4.03 | 65 | 3.01 | 8,835 | 408.93 |
| | Penrith | 1,842 | 8.65 | 1,296 | 6.09 | 152,153 | 714.41 |
| | LHD Total | 3,313 | 8.47 | 2,398 | 6.13 | 265,270 | 678.46 |
| | Ballina | 1,138 | 25.5 | 1,144 | 25.63 | 30,946 | 693.42 |
| | Byron | 297 | 8.47 | 281 | 8.01 | 24,676 | 703.4 |
| | Clarence Valley | 189 | 3.66 | 214 | 4.14 | 16,937 | 327.84 |
| | Kyogle | 31 | 3.52 | 29 | 3.3 | 2,740 | 311.51 |
| Northern NSW | Lismore | 287 | 6.57 | 308 | 7.05 | 23,812 | 545 |
| | Richmond Valley | 127 | 5.41 | 130 | 5.54 | 10,474 | 446.37 |
| | Tenterfield | 29 | 4.4 | 21 | 3.18 | 1,672 | 253.56 |
| | Tweed | 531 | 5.47 | 513 | 5.29 | 39,134 | 403.44 |
| | LHD Totaf | 2,606 | 8.4 | 2,625 | 8.46 | 149,096 | 480.39 |
| | Hornsby | 1,857 | 12.21 | 1,293 | 8.5 | 103,115 | 678.12 |
| | Hunters Hill | 531 | 35.45 | 290 | 19.36 | 23,177 | 1547.2 |
| | Ku-ring-gai | 2,676 | 21.05 | 1,824 | 14.34 | 136,272 | 1071.72 |
| Northern | Lane Cove | 1,341 | 33.4 | 767 | 19.1 | 65,632 | 1634.47 |
| Sydney | Mosman | 610 | 19.69 | 356 | 11.49 | 27,905 | 900.71 |
| | North Sydney | 1,193 | 15.9 | 709 | 9.45 | 51,591 | 687.69 |
| | Northern Beaches | 5,955 | 21.77 | 4,497 | 16.44 | 346,643 | 1267.44 |
| | Parramatta ¹ | 2,826 | 10.99 | 2,023 | 7.87 | 151,637 | 589.58 |

| | | | Week | ending | | Tota | l since |
|--------------------------|-----------------------------------|--------|----------------------------------|--------|----------------------------------|---------|----------------------------------|
| I coal Hackle | | 08- | Мау | 01-1 | May | | ry 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 |
| | Ryde | 2,139 | 16.29 | 1,402 | 10.68 | 96,647 | 736.24 |
| | Willoughby | 1,174 | 14.46 | 728 | 8.97 | 53,094 | 653.96 |
| | LHD Totaf | 18,090 | 18.92 | 12,308 | 12.88 | 934,929 | 978.04 |
| | Bayside | 2,161 | 12.11 | 1,307 | 7.33 | 100,517 | 563.45 |
| | Georges River | 1,574 | 9.87 | 1,074 | 6.73 | 85,285 | 534.8 |
| | Randwick | 3,235 | 20.78 | 1,574 | 10.11 | 136,931 | 879.74 |
| South Eastern | Sutherland Shire | 2,976 | 12.9 | 1,991 | 8.63 | 176,314 | 764.55 |
| Sydney | Sydney ¹ | 5,462 | 22.17 | 3,342 | 13.57 | 225,382 | 914.91 |
| | Waverley | 2,504 | 33.7 | 952 | 12.81 | 79,145 | 1065.28 |
| | Woollahra | 2,696 | 45.4 | 1,068 | 17.98 | 69,000 | 1161.87 |
| | LHD Totaf | 17,274 | 18.01 | 9,304 | 9.7 | 729,219 | 760.32 |
| | Camden | 1,191 | 11.74 | 816 | 8.04 | 90,950 | 896.62 |
| | Campbelltown | 1,521 | 8.9 | 1,026 | 6 | 122,483 | 716.51 |
| | Canterbury-Bankstown ¹ | 3,104 | 8.21 | 2,288 | 6.05 | 215,062 | 569.07 |
| South | Fairfield | 1,018 | 4.81 | 775 | 3.66 | 94,498 | 446.39 |
| Western Sydney | Liverpool | 1,602 | 7.04 | 1,071 | 4.71 | 148,048 | 650.52 |
| | Wingecarribee | 466 | 9.11 | 367 | 7.18 | 38,934 | 761.41 |
| | Wollondilly | 334 | 6.28 | 257 | 4.84 | 26,106 | 491.19 |
| | LHD Totaf | 7,457 | 7.18 | 5,354 | 5.16 | 625,985 | 602.76 |
| | Bega Valley | 189 | 5.48 | 224 | 6.5 | 13,925 | 403.9 |
| | Eurobodalla | 193 | 5.02 | 190 | 4.94 | 20,932 | 544.07 |
| | Goulburn Mulwaree | 188 | 6.04 | 147 | 4.72 | 14,680 | 471.54 |
| Southern | Queanbeyan-Palerang Regional | 272 | 4.45 | 210 | 3.44 | 20,566 | 336.6 |
| NSW | Snowy Monaro Regional | 98 | 4.71 | 103 | 4.95 | 8,861 | 426.11 |
| | Upper Lachlan Shire | 65 | 8.07 | 44 | 5.46 | 3,316 | 411.47 |
| | Yass Valley | 60 | 3.51 | 54 | 3.16 | 4,981 | 291.51 |
| | LHD Totaf | 1,065 | 4.91 | 972 | 4.48 | 87,292 | 402.14 |
| | Burwood | 349 | 8.59 | 204 | 5.02 | 20,183 | 496.97 |
| | Canada Bay | 1,530 | 15.93 | 927 | 9.65 | 77,646 | 808.19 |
| | Canterbury-Bankstown ¹ | 3,104 | 8.21 | 2,288 | 6.05 | 215,062 | 569.07 |
| Sydney | Inner West | 3,998 | 19.91 | 1,996 | 9.94 | 180,118 | 896.95 |
| | Strathfield | 583 | 12.42 | 409 | 8.72 | 35,448 | 755.4 |
| | Sydney ¹ | 5,462 | 22.17 | 3,342 | 13.57 | 225,382 | 914.91 |
| | LHD Totaf | 11,528 | 16.54 | 6,765 | 9.71 | 562,741 | 807.64 |
| | Bathurst Regional | 330 | 7.57 | 246 | 5.64 | 24,630 | 564.68 |
| | Blayney | 50 | 6.78 | 43 | 5.83 | 4,044 | 548.04 |
| | Bogan | 11 | 4.26 | 8 | 3.1 | 1,080 | 418.6 |
| | Bourke | 3 | 1.16 | 13 | 5.02 | 663 | 255.98 |
| Western NSW | Brewarrina | 3 | 1.86 | 8 | 4.97 | 380 | 235.88 |
| AACSIGIII IASAA | Cabonne | 54 | 3.96 | 51 | 3.74 | 4,156 | 304.83 |
| | Cobar | 22 | 4.72 | 20 | 4.29 | 1,404 | 301.42 |
| | Coonamble | 6 | 1.52 | 9 | 2.27 | 1,155 | 291.81 |
| | Cowra | 75 | 5.89 | 63 | 4.94 | 4,582 | 359.57 |
| | Dubbo Regional | 282 | 5.25 | 268 | 4.99 | 23,954 | 445.91 |
| | | | | | | | |

| | | | Week | ending | | Tota | l since |
|------------------------|-------------------------|--------|----------------------------------|--------|----------------------------------|-----------|----------------------------------|
| Local Health | | 08- | Мау | 01-1 | 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 |
| | Forbes | 37 | 3.74 | 25 | 2.52 | 2,779 | 280.54 |
| | Gilgandra | 12 | 2.83 | 30 | 7.08 | 1,183 | 279.08 |
| | Lachlan ¹ | 8 | 1.32 | 4 | 0.66 | 1,251 | 205.93 |
| | Mid-Western Regional | 190 | 7.52 | 131 | 5.19 | 11,151 | 441.61 |
| | Narromine | 30 | 4.6 | 36 | 5.52 | 2,288 | 351.08 |
| | Oberon | 29 | 5.36 | 11 | 2.03 | 2,096 | 387.36 |
| | Orange | 353 | 8.32 | 316 | 7.44 | 28,320 | 667.12 |
| | Parkes | 45 | 3.03 | 53 | 3.57 | 5,229 | 352.43 |
| | Walgett | 7 | 1.18 | 14 | 2.35 | 1,920 | 322.53 |
| | Warren | 14 | 5.19 | 16 | 5.93 | 1,635 | 606.23 |
| | Warrumbungle Shire | 32 | 3.45 | 33 | 3.56 | 3,479 | 374.97 |
| | Weddin | 18 | 4.98 | 7 | 1.94 | 1,085 | 300.3 |
| | LHD Totaf | 1,610 | 5.65 | 1,405 | 4.93 | 128,105 | 449.47 |
| | Blacktown | 3,764 | 10.05 | 2,864 | 7.65 | 252,109 | 673.28 |
| 10/2 21 2 222 | Cumberland | 2,213 | 9.16 | 1,557 | 6.45 | 159,830 | 661.76 |
| Western Sydney | Parramatta ¹ | 2,826 | 10.99 | 2,023 | 7.87 | 151,637 | 589.58 |
| -,, | The Hills Shire | 2,936 | 16.5 | 2,049 | 11.51 | 165,669 | 930.89 |
| | LHD Totaf | 11,196 | 10.63 | 8,102 | 7.69 | 704,744 | 669 |
| NSW Total ³ | | 97,792 | 12.09 | 71,762 | 8.87 | 1,609,314 | 198.93 |

Source - Notifiable condition information management System, accessed as at 8pm 10 May 2021.

 $See \ https://www.health.nsw.gov.au/Infectious/covid-19/Pages/counting-tests.aspx \ for \ detail \ on \ how \ tests \ are \ counted.$

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.

Appendix B: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 2 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 2020-2 May 2021

| Specimen | PCR tests | | ienza A | | ienza B | Adeno- | Para- | RSV | Rhino- | HMPV** | Entero- |
|-----------------|-----------|-----|---------|-----|---------|--------|-----------|-------|--------|--------|---------|
| collection date | conducted | No. | %Pos | No. | %Pos | virus | influenza | | virus | | virus |
| | | | | | | | | | | | |
| Total | 502,734 | 3 | 0.00% | 3 | 0.00% | 2,144 | 2,063 | 9,223 | 29,240 | 111 | 3,785 |
| Month ending | | | | | | | | | | | |
| 31 January* | 168,596 | 1 | 0.00% | 0 | 0.00% | 416 | 88 | 3,275 | 3,541 | 23 | 560 |
| 28 February | 125,718 | 2 | 0.00% | 0 | 0.00% | 419 | 106 | 2,386 | 8,667 | 22 | 910 |
| 28 March | 95,458 | 0 | 0.00% | 0 | 0.00% | 507 | 354 | 1,909 | 8,891 | 18 | 1,187 |
| Week ending | | | | | | | | | | | |
| 4 April | 28,021 | 0 | 0.00% | 0 | 0.00% | 178 | 226 | 368 | 1,791 | 13 | 270 |
| 11 April | 19,382 | 0 | 0.00% | 0 | 0.00% | 152 | 256 | 387 | 1,513 | 11 | 259 |
| 18 April | 20,263 | 0 | 0.00% | 1 | 0.00% | 167 | 294 | 311 | 1,521 | 7 | 208 |
| 25 April | 21,195 | 0 | 0.00% | 0 | 0.00% | 149 | 336 | 315 | 1,495 | 5 | 187 |
| 2 May | 24,101 | 0 | 0.00% | 2 | 0.00% | 156 | 403 | 272 | 1,821 | 12 | 204 |

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 | HIVIEV | 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 | 0.00% | 1,251 | 89 | 209 | 31,589 | 79 | 427 |
| 30 August | 174,594 | 9 | 0.01% | 2 | 0.00% | 1,137 | 37 | 299 | 13,926 | 14 | 235 |
| 27 September | 145,489 | 6 | 0.00% | 1 | 0.00% | 938 | 35 | 866 | 8,416 | 61 | 259 |
| 1 November * | 131,686 | 7 | 0.01% | 1 | 0.00% | 894 | 56 | 3,508 | 5,632 | 51 | 662 |
| 29 November | 129,164 | 6 | 0.00% | 3 | 0.00% | 752 | 42 | 6,255 | 8,252 | 192 | 884 |
| 27 December | 167,756 | 2 | 0 | 0 | 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

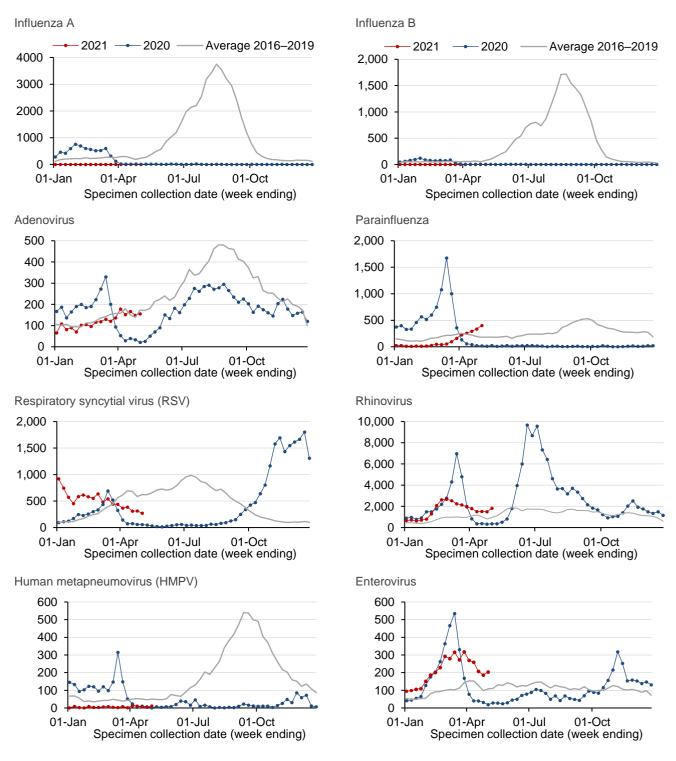
RSV - Respiratory syncytial virus

*Five-week period

29

Appendix C: Number of positive PCR test results for influenza and other respiratory viruses at sentinel NSW laboratories, January 2020 to 2 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 8 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. The table below shows results for the last 10 weeks of samples collected across all sites in NSW.

| Sydney Sites | | 6- Mar | 13- Mar | 20- Mar | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May |
|--------------|---------------------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|-----------|
| Pop. | Location | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 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 | | | | | | | | | | |
| 1,857,740 | Malabar 1 | | | | | | | | | | |
| 1,057,740 | Malabar 2 | | | | | | | | | | |
| 181,005 | Liverpool | | | | | | | | | | |
| 98,743 | West Camden | | | | | | | | | | |
| 6,882 | Wallacia | | | | | | | | | | |
| 14,600 | Picton | | | | | | | | | | |
| 161,200 | Glenfield | | | | | | | | | | |
| 1,341,986 | North Head | | | | | | | | | | |
| 26,997 | Castle Hill Cattai | | | | | | | | | | |
| 20,997 | 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 18, ending 8 May 2021

| Sydney Netw | ork Sites | 6- Mar | 13- Mar | 20- Mar | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May |
|--------------|--|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|-----------|
| Network | Location | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 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 Network | | | | | | | | | | |
| Glenfield | Minto Sewage Network | | | | | | | | | | |
| Liverpool | Ireland Park Sewage Network | | | | | | | | | | |
| Quakers Hill | Eastern Creek Sewage Network | | | | | | | | | | |
| St Mary's | Ropes Creek Sewage Network | | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW Epidemiological week 18, ending 8 May 2021

| Regional Site | es | 6- Mar | 13- Mar | 20- Mar | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May |
|---------------|----------------------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|-----------|
| Pop. | Location | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 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 | | | | | | | | | | |
| | Albury composite | С | | С | С | С | С | С | С | | С |
| 51,750 | Albury Kremer St | | | | | | | | C | | Ü |
| , | 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 | | | | | | | | | | |
| | Wagga Wagga composite | С | С | С | С | С | С | С | С | С | С |
| | Wagga Wagga- inlet 1 | | | | | | | | | | |
| 50,000 | Wagga Wagga- inlet 2 | | | | | | | | | | |
| | Wagga Wagga -Kooringal STP | | | | | | | | | | |
| 2,050 | Bourke | | | | | | | | | | |
| _,=,=,= | Nyngan | | | | | | | | | | |
| | 1.7 iigaii | | | | | | | | | | |

COVID-19 WEEKLY SURVEILLANCE IN NSW Epidemiological week 18, ending 8 May 2021

| Regional Site | es (con't) | 6- Mar | 13- Mar | 20- Mar | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May |
|---------------|--------------------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|-----------|
| Pop. | Location | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 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 | Byron Bay – Ocean Shores | | | | | | | | | | |
| | Byron Bay | | | | | | | | | | |
| 2,000 | Bangalow | | | | | | | | | | |
| 3,500 | Mullumbimby | | | | | | | | | | |
| 31,104 | Ballina | | | | | | | | | | |
| 7,700 | Lennox Head | | | | | | | | | | |
| 16,000 | Tweed – Murwillumbah | | | | | | | | | | |

Epidemiological week 18, ending 8 May 2021

| Regional S | ites (con't) | 6- Mar | 13- Mar | 20- Mar | 27- Mar | 3- Apr | 10- Apr | 17- Apr | 24- Apr | 1- May | 8- May |
|------------|------------------------|-----------|------------|------------|------------|-----------|------------|------------|------------|-----------|-----------|
| Pop. | Location | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 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 | 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

c 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. |