



# Guide to interpreting the WA COVID-19 Vaccination Dashboard

## 1. Introduction

The WA COVID-19 Vaccination Dashboard provides information on the COVID-19 vaccination program in Western Australia (WA). It contains information on doses administered in WA, and the number of people and proportion of the population that are vaccinated.

## 2. Reporting metrics

### Total number of doses administered

- The main figure is the total number of COVID-19 vaccinations that have been administered to WA residents since the COVID-19 vaccination program commenced on 22 February 2021.
  - This figure is a count of all doses administered to WA residents, including first and second doses, and is therefore greater than the number of people vaccinated.
- The secondary figure is the number of COVID-19 vaccinations administered on the most recent reporting date (usually the day prior to the dashboard update date).

### Number of first doses administered

- The main figure is the total number of COVID-19 vaccination first doses that have been administered to WA residents since the COVID-19 vaccination program commenced on 22 February 2021.
  - This figure also includes people who have subsequently received Dose 2 and is the same as the number of people who have been vaccinated.
- The secondary figure is the number of first doses administered on the most recent reporting date (usually the day prior to the dashboard update date).

### Number and per cent of WA fully vaccinated

- The number fully vaccinated is the number of eligible people in WA who have received the second dose of a COVID-19 vaccine since the program commenced on 22 February 2021.
- The increase is the number of people who received their second dose of a COVID-19 vaccine on the most recent reporting date (usually the day prior to the dashboard update date).
- The percentage is calculated from the number of eligible people in WA who have received vaccine Dose 2 and the total number of people in WA aged 16+.
- For both Pfizer (Comirnaty) and AstraZeneca COVID-19 vaccines, the first dose provides partial protection against COVID-19, but people may not be considered fully protected until 7-14 days after their second dose. For simplicity, "fully vaccinated" in this dashboard refers

to all people who have received the second dose, whether or not the 7-14 day period for maximum protection has passed.

## People vaccinated

- Data in this chart is the total number of people in WA who have received a COVID-19 vaccine from the commencement of the program on 22 February 2021 up to each date.
- One dose refers to the number of people who have received Dose 1 only. Two doses refers to people who have received both Dose 1 and Dose 2.
- As the Dose 1 count excludes those who have also received Dose 2, the cumulative change in Dose 1 does not equal the number of first doses delivered on any given day.
- The sum of the Dose 1 and Dose 2 populations is the total number of people who have been vaccinated.

## Rolling 7-day average of daily doses administered

- The rolling 7-day average is calculated from the total number of COVID-19 vaccinations administered to WA residents on the reference date and the preceding six days, divided by seven.
- The use of a rolling 7-day average smooths out the effect of usual variations in daily vaccination levels (for example, reduced vaccinations due to weekends). No additional adjustment is made for public holidays and therefore the effect of public holidays may still be seen in the data.

## Fully vaccinated as a percentage of the population

- Fully vaccinated refers to the percentage of the age 16+ population in each state/territory that have received two doses of a COVID-19 vaccine.
- As the data for this chart comes from a weekly report provided by the Australian Government Department of Health and is only updated on Tuesdays, data may not match percentages reported elsewhere in this dashboard.
- For both Pfizer (Comirnaty) and AstraZeneca COVID-19 vaccines, people may not be considered fully protected until 7-14 days after their second dose. For simplicity, "fully vaccinated" in this dashboard refers to all people who have received the second dose, whether or not the 7-14 day period for maximum protection has passed.

## Vaccinations per 100,000 people

- The data in this chart represents the number of doses (Dose 1 + Dose 2) received per 100,000 people of age 16+ in each area.
- Doses are mapped to regions based on the residential address of the recipient rather than the place where the vaccine was administered.
- The areas are defined by the Australian Bureau of Statistics (ABS) Statistical Area Level 3 (SA3) regions.
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- As this chart is calculated based on the number of doses delivered, people who have received both Dose 1 and Dose 2 are counted twice. This data should therefore be used with caution when considering the prevalence of vaccinated people in each area.

### 3. Data sources and data coverage

WA vaccination data for the WA COVID-19 Vaccination Dashboard is sourced from the Australian Immunisation Register (AIR). AIR is a national register maintained by the Australian Government that records all vaccines given to all people in Australia. WA data includes all COVID-19 vaccinations in WA, whether administered by WA Health, Australian government providers or other providers (including GPs).

The vaccination data in the chart with all states and territories comes from a weekly report provided by the Australian Government Department of Health.

State-level population estimates are sourced from Australian Bureau of Statistics 'Population by age and sex – national' [data set], [National, state and territory population, September 2020](#). The eligible population is calculated as all people ages 16 or older.

Region-level population estimates are derived by Department of Health (WA) calculations based on Australian Bureau of Statistics 'Population estimates by age and sex, by SA2, 2019' [data set], [Regional population by age and sex, 2019](#). The eligible population is calculated as all people ages 16 or older.

### 4. Data extraction and reporting

Data sourced from AIR is updated on weekdays, with the most recent data usually a day earlier than the report date.

Vaccination data across states and territories is updated weekly on a Tuesday.

The data displayed on the WA COVID-19 Vaccination Dashboard covers all COVID-19 vaccinations administered in WA since the commencement of the vaccination program on 22 February 2021.

### 5. Data interpretation

- Figures shown in the dashboard are subject to change due to quality assurance processes, lags in data processing, data cleaning or other corrections. Additionally, WA Department of Health quality adjustments may not perfectly replicate those applied by the Australian Government in their reporting. As such, differences may exist between figures reported in this dashboard and other reports.
- Population data used in calculating percentages and regional comparisons includes all people aged 16+, as the Australian Technical Advisory Group on Immunisation have advised that COVID-19 vaccination is recommended for all people aged 16 years and older to protect against COVID-19.
  - The delivery of the vaccine is prioritised according to the [National Rollout Strategy](#), which defines the priority populations for vaccination and the phases in which vaccines will be provided in Australia. Data in this dashboard is not broken down according to priority populations.

## 6. Glossary

### AstraZeneca

AstraZeneca refers to the COVID-19 Vaccine developed by The University of Oxford and AstraZeneca. Counts of AstraZeneca doses delivered include both overseas- and Australian-manufactured vaccines.

### Dose 1

The first dose of a COVID-19 vaccine.

### Dose 2

The second dose of a COVID-19 vaccine. Both Pfizer (Comirnaty) and AstraZeneca vaccines require two doses. People should receive the same vaccine for both Dose 1 and Dose 2.

### Eligible people

For the purposes of this document, eligible people is defined as all people aged 16 or older.

### Pfizer (Comirnaty)

Pfizer refers to the Comirnaty COVID-19 Vaccine developed by Pfizer Inc. and BioNTech.

## 7. Citation of WA COVID-19 Vaccination data

Acknowledgement of the Department of Health Western Australia should accompany any use of the data.

## 8. More Information

[WA Covid-19 Coronavirus Vaccines](#)

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