

NSW Arbovirus Surveillance and Mosquito Monitoring 2025-2026

Environmental Health Branch, Health Protection NSW

Weekly Update: Week ending 18 October 2025



Bottom left - Common banded mosquito, *Culex annulirostris* **Top and bottom right** - Saltmarsh mosquito, *Aedes vigilax* (Copyright 2020)

Weekly reports are available on [Mosquito-borne disease surveillance](#).

Please send questions or comments about this report to:

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Testing and scientific services are provided by the Department of Medical Entomology, NSW Health Pathology, Institute of Clinical Pathology and Medical Research (ICPMR) for mosquito surveillance, and the Arbovirus Emerging Diseases Unit, NSW Health Pathology (ICPMR) for sentinel chicken surveillance.

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Summary

Arbovirus Detections

Mosquito Isolates

- There have been no arbovirus detections in mosquito samples.

Mosquito Abundance

Inland

- **Low:** Cootamundra, Deniliquin, Griffith, Leeton, Moama, Wagga Wagga.

Environmental Conditions

Climate

- In the week ending 18 October 2025, rainfall was lower than average across NSW.
- In the coming week, 24 to 30 October 2025, above average rainfall is expected across Western and Far West NSW and northern regions of Hunter New England. Average or below average rainfall is expected across the rest of NSW.
- Minimum temperatures are expected to be average or lower than average across most of NSW. Higher than average temperatures are expected on the Mid-North Coast and in Northern NSW.
- High temperatures are expected along the northern NSW coastline. Below average to average temperatures are expected elsewhere.

Tides

- High tides over 1.8 metres are predicted for 5-10 November, 4-9 December, and 21-22 December 2025 which could trigger hatching of *Aedes vigilax*.

Human Arboviral Disease Notifications

Ross River Virus

No cases were notified in the week ending 18 October 2025.

Barmah Forest Virus

One probable case was notified in the week ending 18 October 2025.

Arbovirus Detections

This section details detections of Murray Valley encephalitis virus, Japanese encephalitis virus, Kunjin virus, Ross River virus and Barmah Forest virus in the NSW Arbovirus Surveillance and Mosquito Monitoring Program.

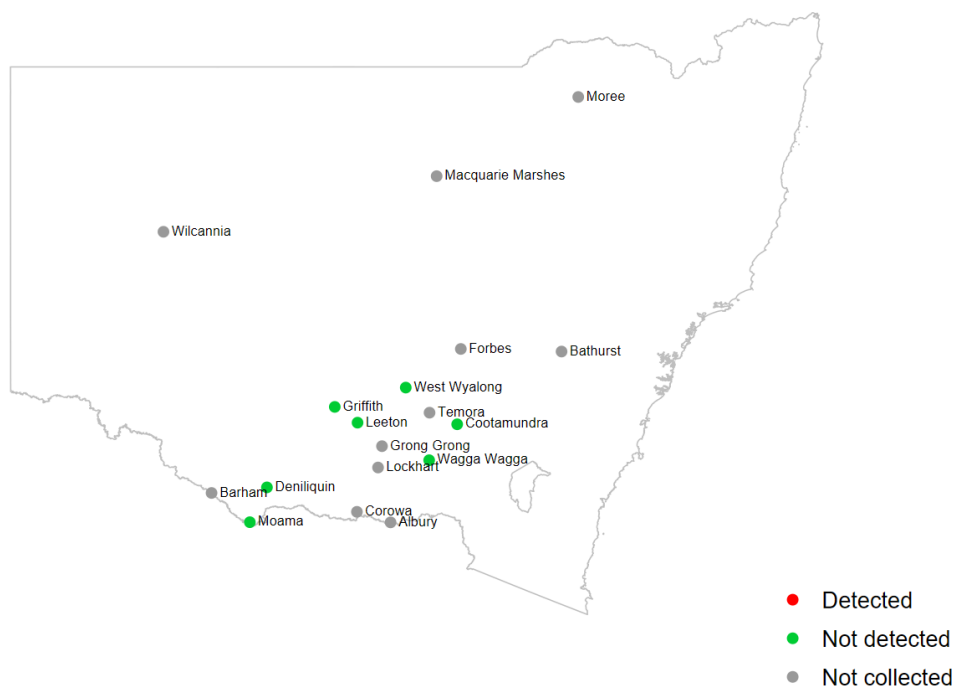
Mosquito isolates

Whole grinds of collected mosquitoes are tested for arbovirus nucleic acids to determine the presence of arboviruses in mosquitoes. Test results for detections of Murray Valley encephalitis virus, Japanese encephalitis virus, Kunjin virus, Ross River virus and Barmah Forest virus for the past week are shown in the maps below. Detections of all arboviruses (including Edge Hill virus and Kokobera virus) for the season are detailed in the positive test results for the 2025-2026 surveillance season.

Test results for mosquito trapping sites reported in the week ending 18 October 2025

In the week ending 18 October 2025, there were no arbovirus detections in mosquitoes.

The map highlights detections of arboviruses that can cause human notifiable conditions, such as Murray Valley encephalitis virus, Japanese encephalitis virus, Kunjin virus, Ross River virus, and Barmah Forest virus. Detections of all arboviruses (including Edge Hill virus, Stratford virus and Kokobera virus) for the season are detailed in the positive test results for the 2025-2026 surveillance season.



There have been no arbovirus detections in inland sites during the 2025-2026 surveillance season

Mosquito abundance

This section details counts of mosquitoes in the NSW Arbovirus Surveillance and Mosquito Monitoring Program. Each location represents the count average for all trapping sites at that location for the most recent week that collections were provided prior to preparation of this report.

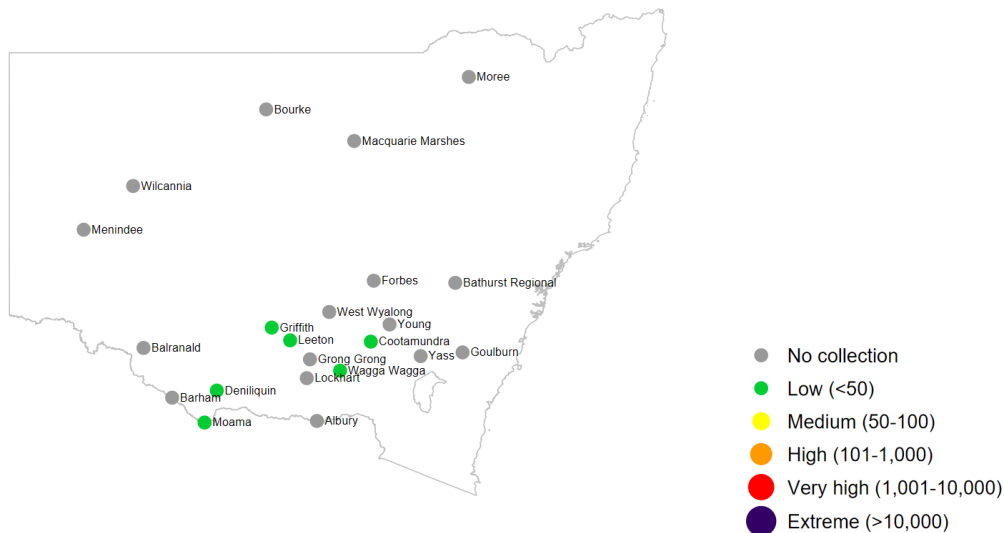
Culex annulirostris and *Aedes vigilax* are vectors of interest for Ross River virus and Barmah Forest virus, *Culex annulirostris* is also a vector for Japanese encephalitis virus.

Mosquito counts

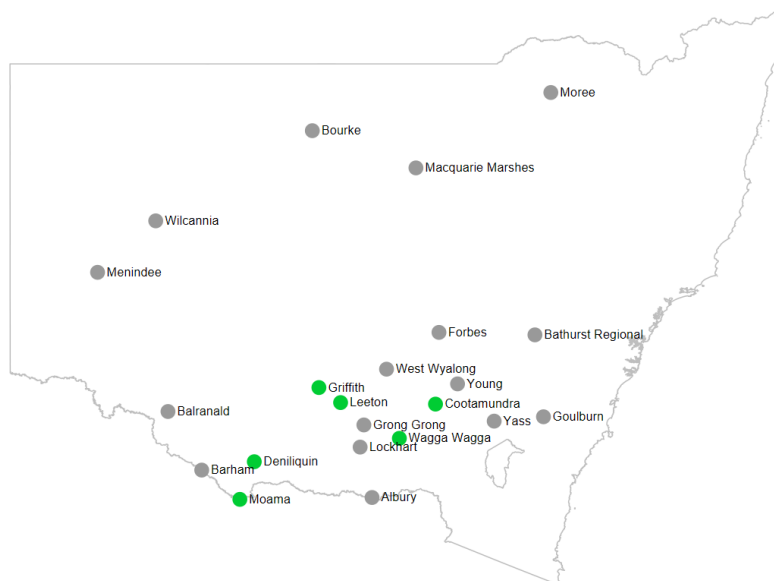
Mosquito counts (average per trap per location) for mosquito trapping sites reported in the week ending 18 October 2025

Inland sites

Total mosquito counts



Culex annulirostris counts

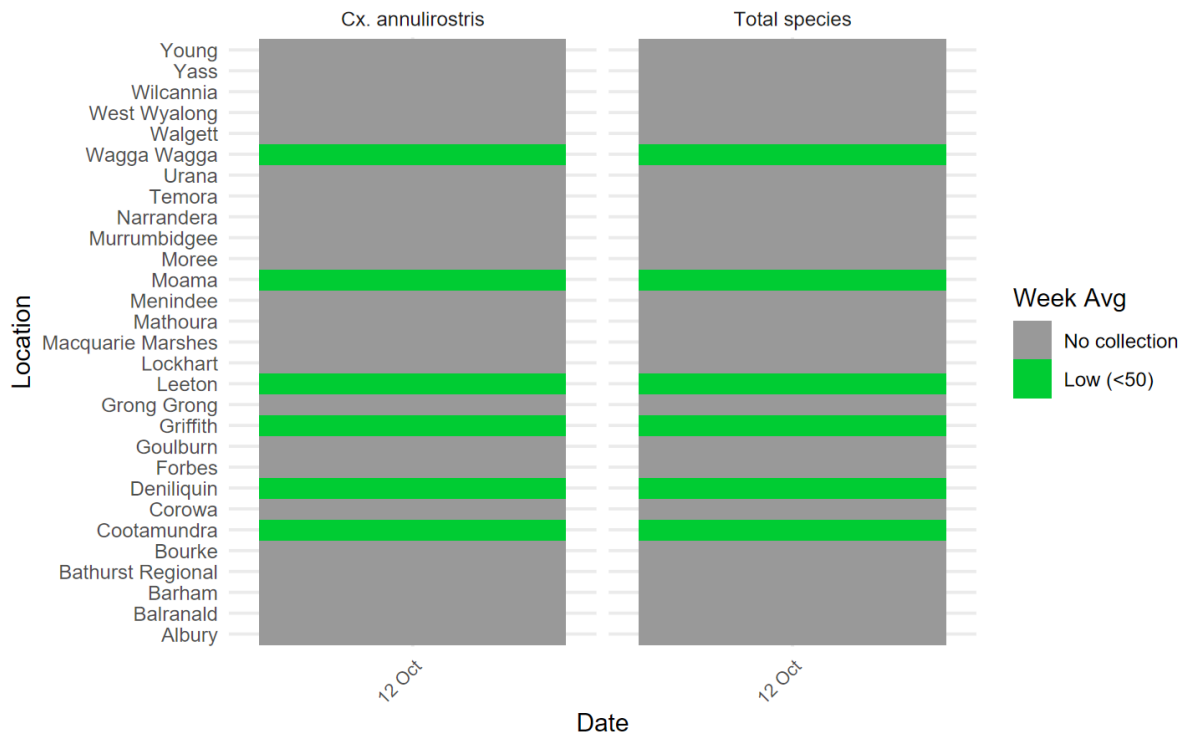


Mosquito abundance results for the 2025-2026 season

This section shows all mosquito trapping results by location and species type to date for the current arbovirus season.

Cumulative mosquito abundance tables

Number of mosquitoes trapped inland (weekly average)



Human arboviral disease notifications

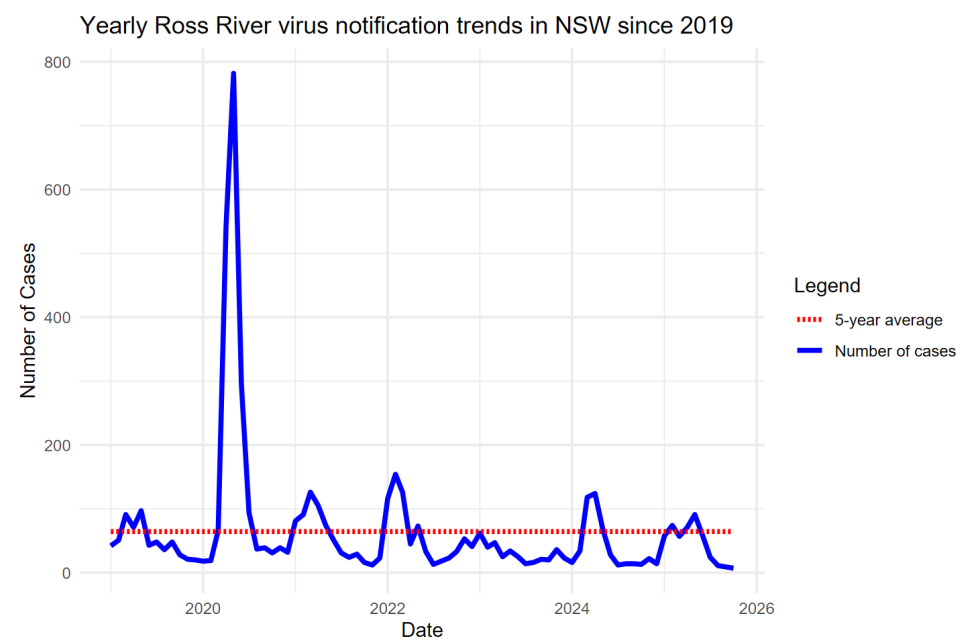
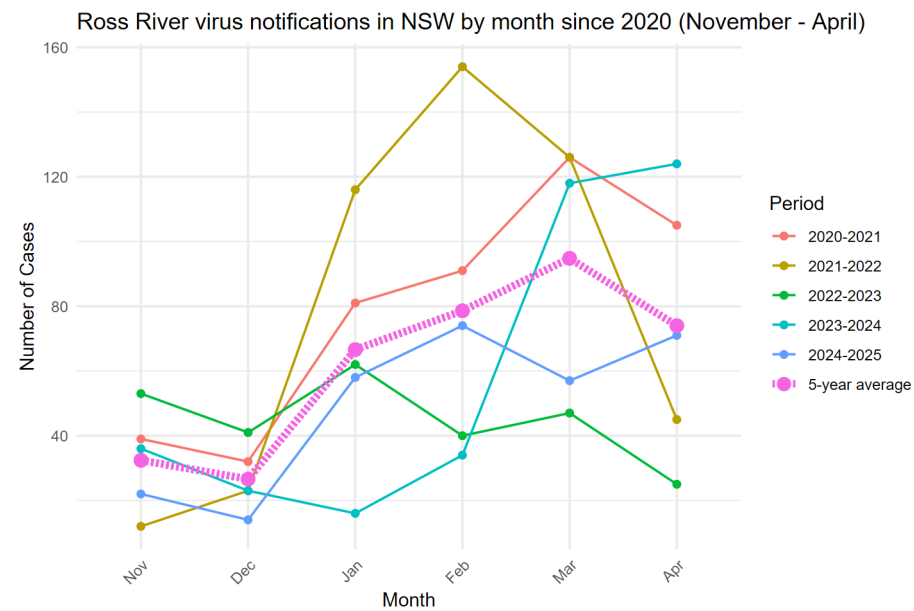
Under the *NSW Public Health Act 2010*, human arboviral infections are notifiable in NSW.

Recent notifications of Ross River virus and Barmah Forest virus infections in humans (by date of case report received)

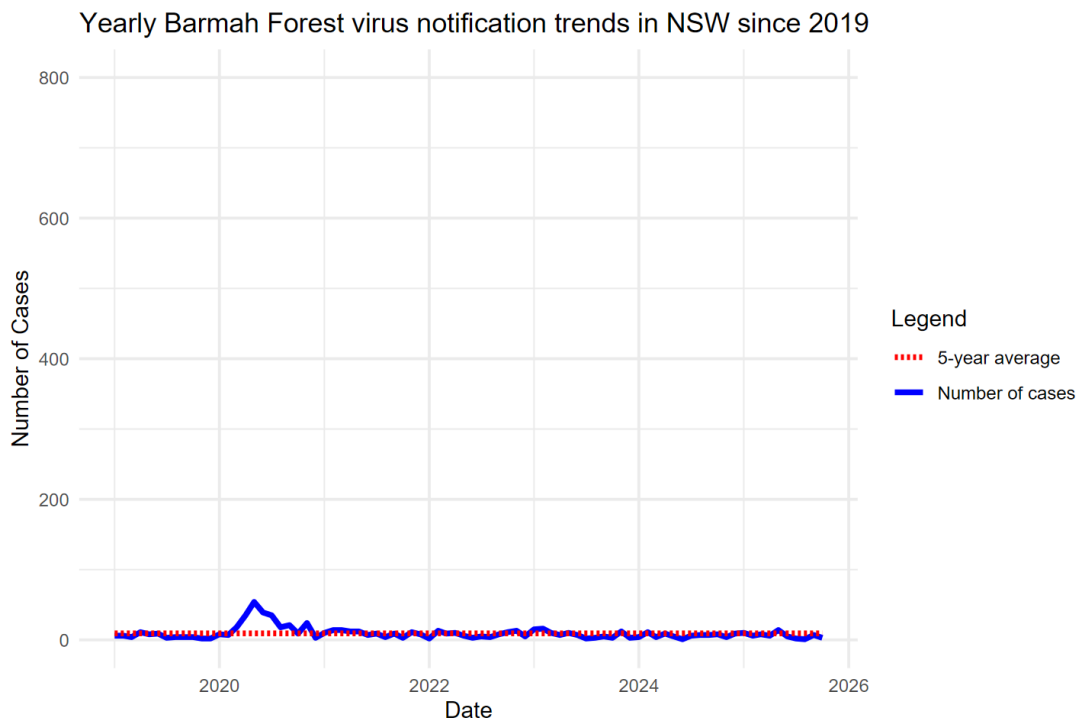
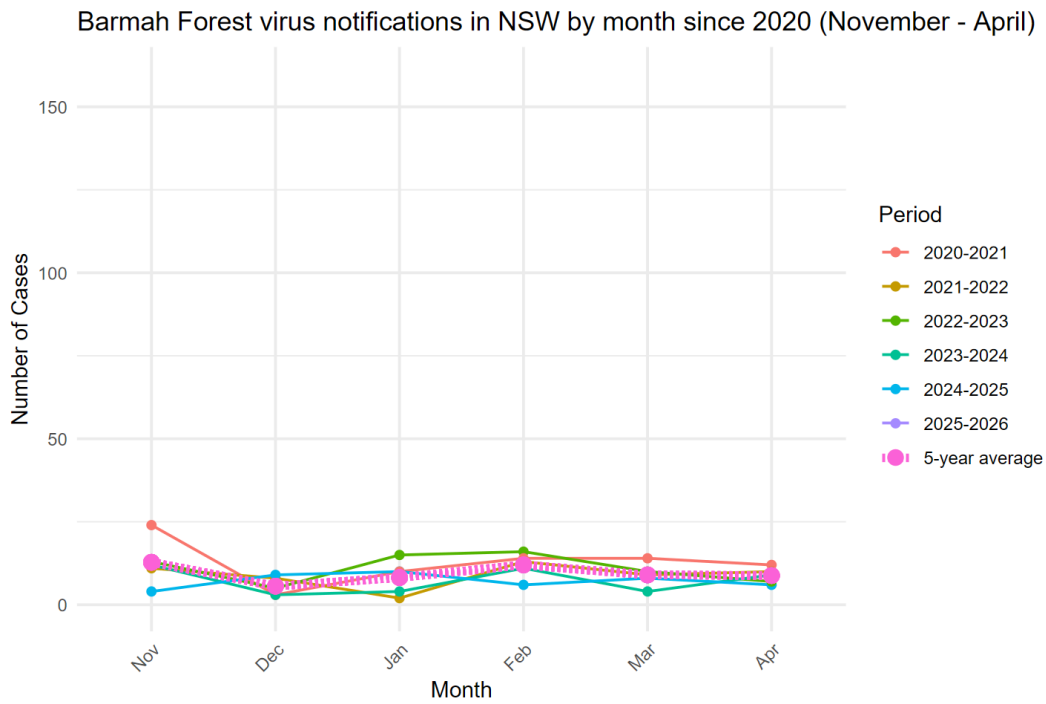
Notifications of Ross River virus and Barmah Forest virus infections, by month of disease onset (the earlier of patient-reported onset or specimen collection date), are available online at the [NSW Health website - infectious diseases data](#).

The following figures show notifications for the current NSW Arbovirus Surveillance and Mosquito Monitoring season (2025-2026), and the same period in the previous four years.

Ross River virus



Barmah Forest virus



Note: Presented human cases include both confirmed and probable cases.