NSW Arbovirus Surveillance and Mosquito Monitoring 2022-2023

Weekly Update: Week ending 25 March 2023 (Report Number 23)











Summary

Arbovirus Detections

- Sentinel Chickens: Murray Valley encephalitis virus antibodies were detected in blood samples collected at Moree from chickens that previously tested negative indicating recent exposure to this virus. Kunjin virus antibodies were similarly detected in blood samples collected at Deniliquin, Menindee, Leeton and Moree indicating recent exposure.
- Mosquito Isolates: There were no detections of Ross River, Barmah Forest, Murray Valley encephalitis, Kunjin and Japanese encephalitis viruses in mosquitoes.

Mosquito Abundance

- Inland: LOW at Albury, Armidale, Balranald, Bourke, Cootamundra, Forbes, Goulburn, Griffith, Grong Grong, Leeton, Mathoura, Menindee, Moama, Moree, Murrumbidgee, Narrabri, Narrandera, Temora, Wagga Wagga, Walgett, West Wyalong, Wilcannia and Yass. MEDIUM at Corowa and Deniliguin.
- Coast: LOW at Kiama, Lismore, Millbank, Mullumbimby, Murwillumbah, Shoalhaven, Wauchope, Wollongong and Wyong. MEDIUM at Kempsey, Nambucca and Port Macquarie. HIGH at Bega, Byron Bay, Gosford, Lake Cathie, Newcastle and Tweed Heads. VERY HIGH at Ballina.
- Sydney: LOW at Bankstown, Canada Bay, Earlwood, Georges River, Hawkesbury, Hills Shire and Northern Beaches. MEDIUM at Parramatta and Sydney Olympic Park. HIGH at Liverpool.

Environmental Conditions

- Climate: In the week ending 25 March 2023, there was moderate rainfall across most of eastern NSW and low levels of rainfall along the south coast and most of western NSW. About average rainfall is predicted for most of eastern NSW and below average rainfall for most of western NSW in April. Minimum temperatures are likely to be about average across most of NSW and above average along the coast and Victorian border in April. Maximum temperatures are likely to be above average in northern and western NSW and about average elsewhere.
- Tides: High tides over 1.8 metres are predicted for 17-23 April, which could trigger hatching of Aedes vigilax.

Human Arboviral Disease Notifications

• Ross River Virus: 10 cases were notified in the week ending 4 March 2023.

• Barmah Forest Virus: 3 cases were notified in the week ending 4 March 2023.

Comments and other findings of note

The Bureau of Meteorology has announced that the La Niña climate driver in the tropical Pacific Ocean has ended. The La Niña tends to be associated with higher rainfall in eastern Australia and NSW received above average rainfall over the past three years while the La Niña was present. There are some signs that the climate driver, El Niño, could form later in 2023. El Niño is normally associated with lower than average winter/spring rainfall over eastern Australia and has been associated with severe rainfall deficiency and drought in NSW.

Weekly reports are available at:

www.health.nsw.gov.au/Infectious/mosquito-borne/Pages/surveillance.aspx

Please send questions or comments about this report to:

Surveillance and Risk Unit, Environmental Health Branch, Health Protection NSW: hssg-ehbsurveillance@health.nsw.gov.au

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.

The arbovirus surveillance and mosquito monitoring results in this report remain the property of the NSW Ministry of Health and may not be used or disseminated to unauthorised persons or organisations without permission.

Cover photos:

SPHN (EH) 220867

Arbovirus Detections

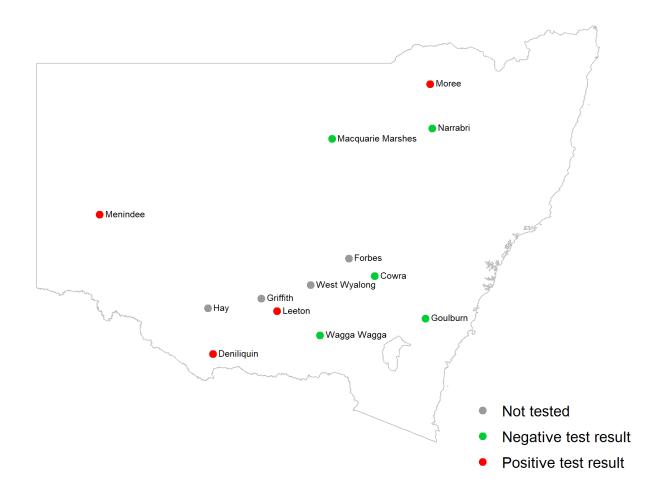
This section details detections of Murray Valley encephalitis virus, Kunjin virus, Ross River virus, Barmah Forest virus and Japanese encephalitis virus in the NSW Arbovirus Surveillance and Mosquito Monitoring Program.

Sentinel chickens

Chickens are bled for detection of antibodies directed against Murray Valley encephalitis virus, Kunjin virus and Japanese encephalitis virus, indicating exposure to these viruses. Test results for the past three weeks are shown in the map below and all positive test results for the season are detailed in the table. A positive test result indicates one or more chickens in a flock tested positive for the <u>first time</u> to antibodies directed against a particular virus, indicating newly acquired infection.

Sentinel chicken antibody test results for samples collected in the three weeks to 25 March 2023

There were positive test results for Murray Valley encephalitis virus for samples collected at Moree. There were positive test results for Kunjin virus for samples collected at Deniliquin, Menindee, Leeton and Moree.



Positive test results in the 2022-2023 surveillance season

Date of sample collection	Location	Virus
12 January 2023	Menindee	Murray Valley encephalitis
12 January 2023	Menindee	Kunjin
19 January 2023	Menindee	Murray Valley encephalitis
20 January 2023	Macquarie Marshes	Murray Valley encephalitis
26 January 2023	Menindee	Murray Valley encephalitis
29 January 2023	Leeton	Murray Valley encephalitis
5 February 2023	Menindee	Murray Valley encephalitis
5 February 2023	Menindee	Kunjin
6 February 2023	Deniliquin	Murray Valley encephalitis
6 February 2023	Forbes	Murray Valley encephalitis
6 February 2023	Hay	Murray Valley encephalitis
6 February 2023	Macquarie Marshes*	Murray Valley encephalitis
12 February 2023	Deniliquin	Murray Valley encephalitis
12 February 2023	Leeton	Murray Valley encephalitis
12 February 2023	Leeton	Kunjin
13 February 2023	Macquarie Marshes	Murray Valley encephalitis
13 February 2023	Macquarie Marshes	Kunjin
14 February 2023	Forbes	Murray Valley encephalitis
19 February 2023	Leeton	Murray Valley encephalitis
19 February 2023	Leeton	Kunjin
21 February 2023	Hay	Murray Valley encephalitis
23 February 2023	West Wyalong	Murray Valley encephalitis
3 March 2023	Deniliquin	Murray Valley encephalitis
5 March 2023	Macquarie Marshes	Kunjin
7 March 2023	Griffith	Murray Valley encephalitis
12 March 2023	Deniliquin	Kunjin virus
12 March 2023	Menindee	Kunjin virus
13 March 2023	Leeton	Kunjin virus
13 March 2023	Moree	Murray Valley encephalitis
13 March 2023	Moree	Kunjin virus

^{*}Chickens in Macquarie Marshes had previously seroconverted to Murray Valley encephalitis virus and continue to test positive for antibodies to this virus.

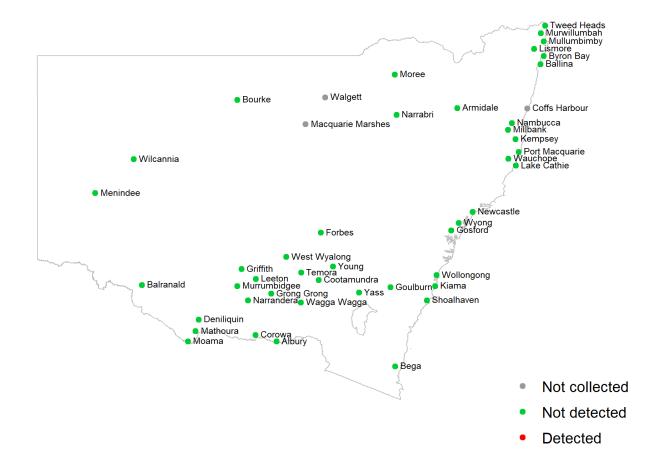
Mosquito isolates

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

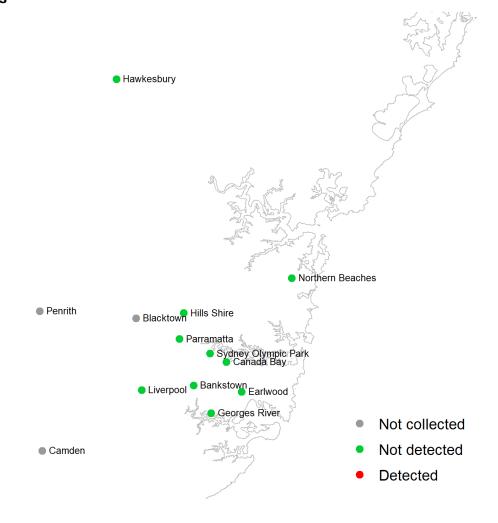
Test results for mosquito trapping sites reported in the week ending 25 March 2023

There were no detections of Ross River, Barmah Forest, Murray Valley encephalitis, Kunjin and Japanese encephalitis viruses in mosquitoes in the week ending 25 March 2023.

Inland and Coastal sites



Sydney sites



Arboviruses detected in the 2022-2023 surveillance season

14 November 2022	Date of sample collection	Location	Virus							
22 November 2022	14 November 2022	Macquarie Marshes	Barmah Forest							
5 December 2022	15 November 2022	Griffith	Ross River							
5 December 2022	22 November 2022	Griffith	Barmah Forest							
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13 March 2023 Narrandera Ross River										
13 March 2023 Georges River Stratford										
21 March 2023 Northern Beaches Stratford	21 March 2023	Northern Beaches	Stratford							

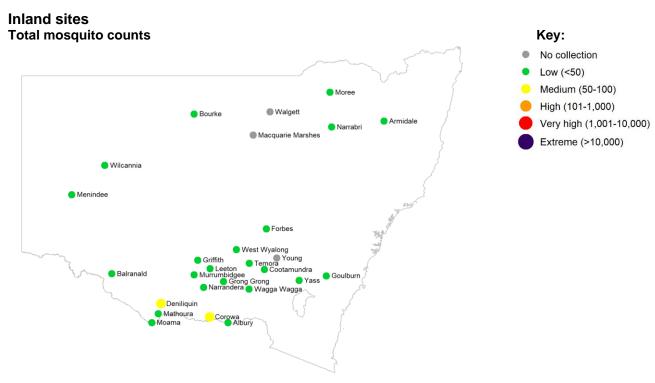
Note:
Human cases of Edge Hill virus and Stratford virus have rarely been reported. Infection may present as a mild self-limiting febrile illness with body aches.

Mosquito Abundance

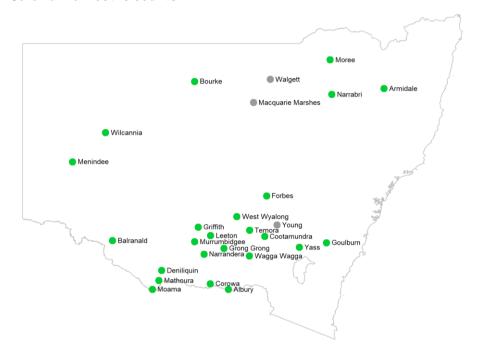
This section details counts of mosquitoes in the NSW Arbovirus Surveillance and Mosquito Monitoring Program. Each location represents the count average for all trapping sites at that location for the most recent week that collections were provided prior to preparation of this report.

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 (average per trap per location) for mosquito trapping sites reported in the week ending 25 March 2023



Culex annulirostris counts



Coastal sites Total mosquito counts



Key:

- No collection
 Low (<50)
 Medium (50-100)
- High (101-1,000)
 Very high (1,001-10,000)
- Extreme (>10,000)

Culex annulirostris counts



Aedes vigilax counts



Sydney sites Total mosquito counts



Key:

No collection
Low (<50)
Medium (50-100)
High (101-1,000)
Very high (1,001-10,000)
Extreme (>10,000)

Culex annulirostris counts

Penrith Blacktown Hills Shire Parramatta Sydney Olympic Park Canada Bay Liverpool Bankstown Earlwood Georges River

Aedes vigilax counts



Mosquito counts for the 2022-23 surveillance season Inland

"Cx. annul" refers to Culex annulirostris and "Ae. vigilax" refers to Aedes vigilax.

WEEK ENDING Oct-22 May-23 Nov-22 Dec-22 Jan-23 Feb-23 Mar-23 Apr-23 Location Mosquito 15 22 29 5 12 19 26 3 10 17 24 31 7 14 21 28 4 11 18 25 4 11 18 25 1 8 15 22 29 6 13 Cx. annul Albury Total Cx. annul Armidale Total Balranald Cx. annul Total Cx. annul Bourke Total Cx. annul Cootam undra Total Cx. annul Corowa Total Cx. annul Deniliquin Total Forbes Cx. annul Total Cx. annul Goulburn Total Cx. annul Total Griffith Cx. annul Total **Grong Grong** Cx. annul Leeton Total Macquarie Cx. annul Total Marshes Cx. annul Mathoura Total Cx. annul Menindee Total Cx. annul Moama Total Cx. annul Total Moree Cx. annul Murrumbidgee Total Cx. annul Narrabri Total Cx. annul Total Narrandera Cx. annul Temora Total Cx. annul Total Wagga Wagga Cx. annul Walgett Total Cx. annul West Wyalong Total Cx. annul Wilcannia Total Cx. annul Yass Total Cx. annul Young Total

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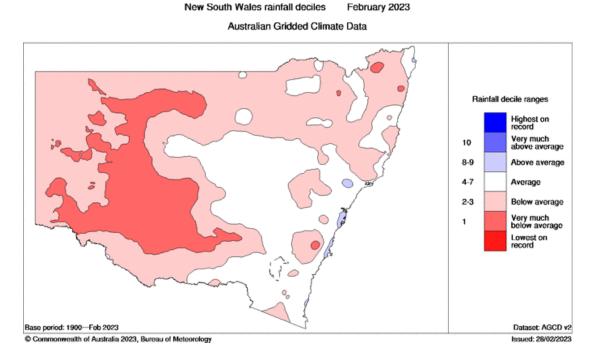
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Environmental Conditions

Mosquitoes require water to breed. Rainfall and tides (for the salt marsh mosquito, *Aedes vigilax*) are important contributing factors for proliferation of mosquito numbers. Unseasonably warm weather can also contribute to higher mosquito numbers.

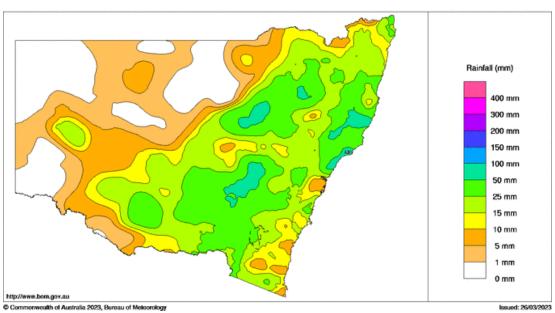
Rainfall

In February, rainfall was below average in western and northern NSW and average for most other areas of the state. In the week ending 25 March 2023, there were moderate rainfall totals across most of eastern NSW with low levels of rainfall along the south coast and in most of western NSW.



New South Wales Rainfall Totals (mm) Week Ending 25th March 2023

Australian Bureau of Meteorology



Source: Australian Government, Bureau of Meteorology, http://www.bom.gov.au/climate/maps/rainfal

Next month's rainfall and temperature outlook

The Bureau of Meteorology's rainfall outlook predicts that NSW is likely to receive about average rainfall across most of eastern NSW and below average rainfall across most of western NSW. www.bom.gov.au/climate/outlooks/#/rainfall/median/monthly/0

The Bureau of Meteorology's temperature outlook predicts that minimum temperatures are likely to be about average across most of NSW and above average along the coast and Victorian border in April. Maximum temperatures are likely to be above average in northern and western parts of NSW and about average elsewhere.

www.bom.gov.au/climate/outlooks/#/temperature/minimum/median/monthly/0 www.bom.gov.au/climate/outlooks/#/temperature/maximum/median/monthly/0

Tides

Tidal information is relevant for the prediction of the activity of the salt marsh mosquito, *Aedes vigilax*. Typically for NSW, high tides of over 1.8 m, as measured at Sydney, can induce hatching of *Aedes vigilax* larvae. Predicted tide heights can provide some indication of when this is likely to occur.

Dates of predicted high tides of over 1.8 m at Sydney (Fort Denison)

17-23 April

Source: Australian Government, Bureau of Meteorology: www.bom.gov.au/australia/tides/#!/nsw-sydney-fort-denison
Note: Measured tides at Sydney Port Jackson for the current week are available from the NSW Government, Manly Hydraulics Laboratory: https://mhl.nsw.gov.au/Data-OceanTide.

Human Arboviral Disease Notifications

Under the *NSW Public Health Act 2010*, human arboviral infections are notifiable in NSW. The NSW Health Communicable Diseases Weekly Report (CDWR) reports confirmed and probable case numbers by the week they are received by the NSW notifiable diseases surveillance system, and is available at: www.health.nsw.gov.au/Infectious/reports/Pages/CDWR.aspx.

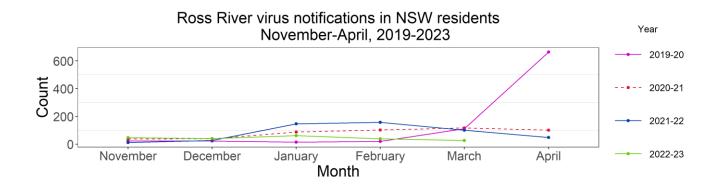
The data for Ross River virus and Barmah Forest virus from the CDWR for the latest reported 3 weeks are below.

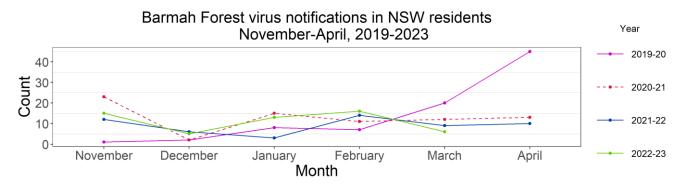
Recent notifications of Ross River virus and Barmah Forest virus infections in humans (by date of case report received)

		Week	
	Latest week (26 Feb – 4 Mar 2023)	1-week prior (19-25 Feb 2023)	2-weeks prior (12-18 Feb 2023)
Ross River virus	10	5	12
Barmah Forest virus	3	7	3

Source: CDWR, Communicable Diseases Branch, Health Protection NSW, NSW Health

Notifications of Ross River virus and Barmah Forest virus infections, <u>by month of disease onset</u> (the earlier of patient-reported onset or specimen collection date), are available online at: www1.health.nsw.gov.au/IDD/pages/data.aspx. The following figures show this data for November to April of the current NSW Arbovirus Surveillance and Mosquito Monitoring season (2022-2023), and the same period in the previous three years.





Source: NSW Health Notifiable Conditions Information Management System (NCIMS), Communicable Diseases Branch and Centre for Epidemiology and Evidence, NSW Health

Notes: The data for the previous month are the notifications to date (data extracted on 27 March 2023). Notifications are for NSW residents, regardless of whether the infection was acquired or diagnosed in NSW. Notifications of Ross River virus and Barmah Forest virus infection lag the date of acquiring the infection due to the time taken for symptom development, diagnosis, notification, and other factors. The weekly numbers by date of notification are useful for monitoring recent short-term trends but represent infections that were acquired some time ago. The monthly numbers by date of onset are more timely but less exact because they represent the earlier of patient-reported onset or specimen collection date and are therefore useful for monitoring general trends in human arboviral disease over the course of a season.