

# Arbovirus Surveillance Summary 2024-2025

## January 2025

### Summary

- One probable case of **Ross River virus** infection and no cases of **Barmah Forest virus** infection in SESLHD residents were reported in January 2025
- Six confirmed cases and six probable cases of **dengue virus** infection in SESLHD residents were reported in January 2025. All infections were acquired overseas
- Mosquito numbers in SESLHD were low in January 2025

## Surveillance of Ross River and Barmah Forest Virus infections

In South Eastern Sydney Local Health District (SESLHD), place of acquisition is investigated for all confirmed and probable cases of Ross River virus and Barmah Forest virus infections.

### a. January 2025

- One probable case of **Ross River virus** infection in a SESLHD resident has been notified.

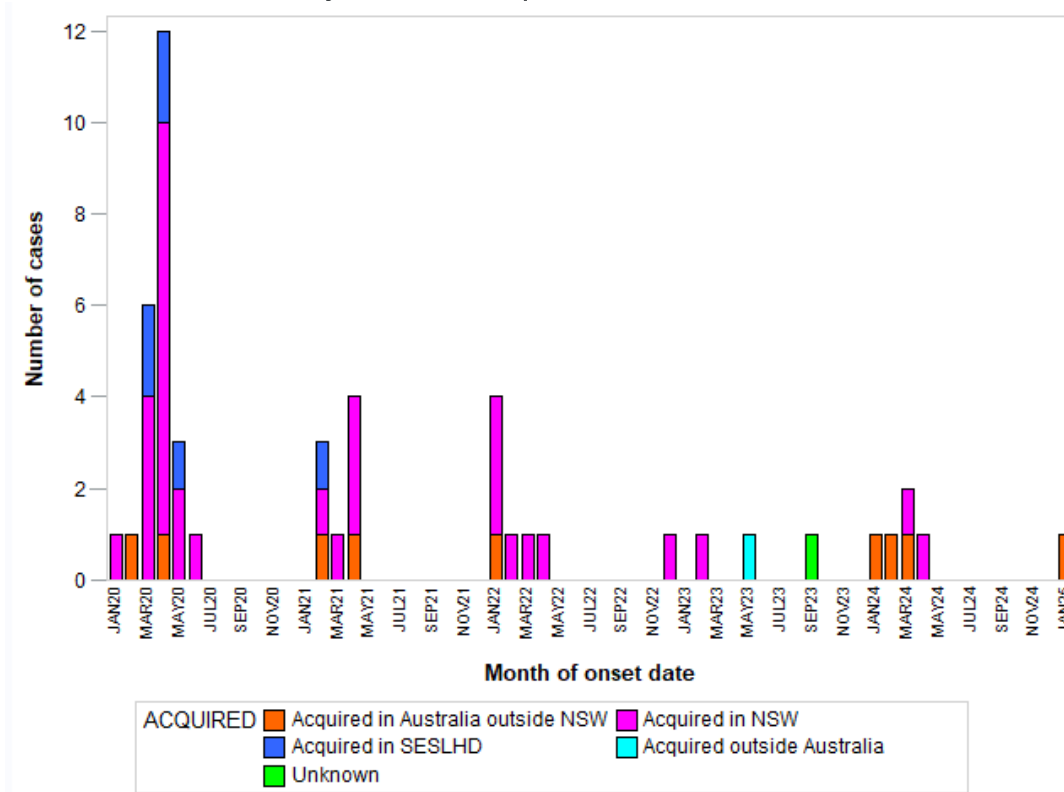
### b. This season (1 November 2024 to 30 April 2025)

- One probable case of **Ross River virus** infection in a SESLHD resident has been notified.
- No cases of **Barmah Forest virus** infection in SESLHD residents have been notified

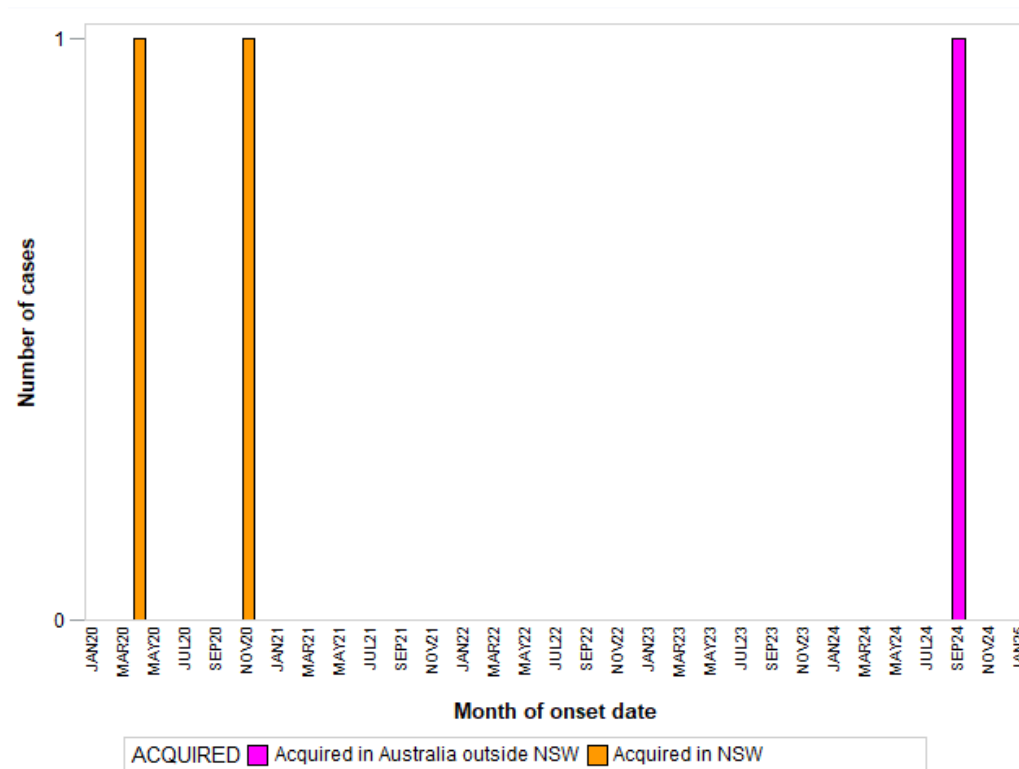
### Confirmed and probable cases among South Eastern Sydney LHD residents, since 1 November 2024

	Acquired in SESLHD	Not known to be acquired in SESLHD		
		Acquired elsewhere in Australia	Acquired overseas	Precise acquisition location unknown
<b>Ross River virus</b>				
Confirmed	0	0	0	0
Probable	0	1	0	0
<b>Barmah Forest virus</b>				
Confirmed	0	0	0	0
Probable	0	0	0	0
<b>Total</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>

Confirmed and probable Ross River virus infections in South Eastern Sydney LHD residents, by location of acquisition, 2020 to date



Confirmed and probable Barmah Forest virus infections in South Eastern Sydney LHD residents, by location of acquisition, 2020 to date



# Summary of other mosquito borne infections not known to be locally transmitted

Six confirmed cases and six probable cases of **dengue virus** infection have been notified in SESLHD residents this month. All infections were acquired overseas.

## Confirmed and probable cases among South Eastern Sydney LHD residents, since 1 November 2024

	Acquired in SESLHD	Not known to be acquired in SESLHD		
		Acquired elsewhere in Australia	Acquired overseas	Precise acquisition location unknown
<b>Dengue</b>				
Confirmed	0	0	17	0
Probable	0	0	8	0
<b>Malaria</b>				
Confirmed	0	0	0	0
Probable	0	0	0	0
<b>Chikungunya</b>				
Confirmed	0	0	0	0
Probable	0	0	0	0
<b>Japanese encephalitis</b>				
Confirmed	0	0	0	0
Probable	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>0</b>

# Mosquito surveillance in South Eastern Sydney LHD

Mosquito surveillance along the Georges River is conducted from late November to April each year, with surveillance also occurring at Matraville, near Port Botany. The detection of increased mosquito numbers may signal an increased risk of arboviral infection. The predominant species of mosquito in the coastal area of the Georges River which may pose a risk to human health is *Ochlerotatus (Aedes) vigilax*, a known vector for Ross River virus and Barmah Forest virus. Three sites along the Georges River close to SESLHD residents are used for mosquito surveillance: Illawong, Alfords Point and Picnic Point (in SWSLHD).

## a. Georges River

- Average mosquito numbers in January 2025 were low at Illawong, Alfords Point and Picnic Point when compared to average January numbers from the previous seasons at these locations.

Mosquito surveillance sites on the Georges River near SESLHD residents (blue overlay highlights SESLHD region)

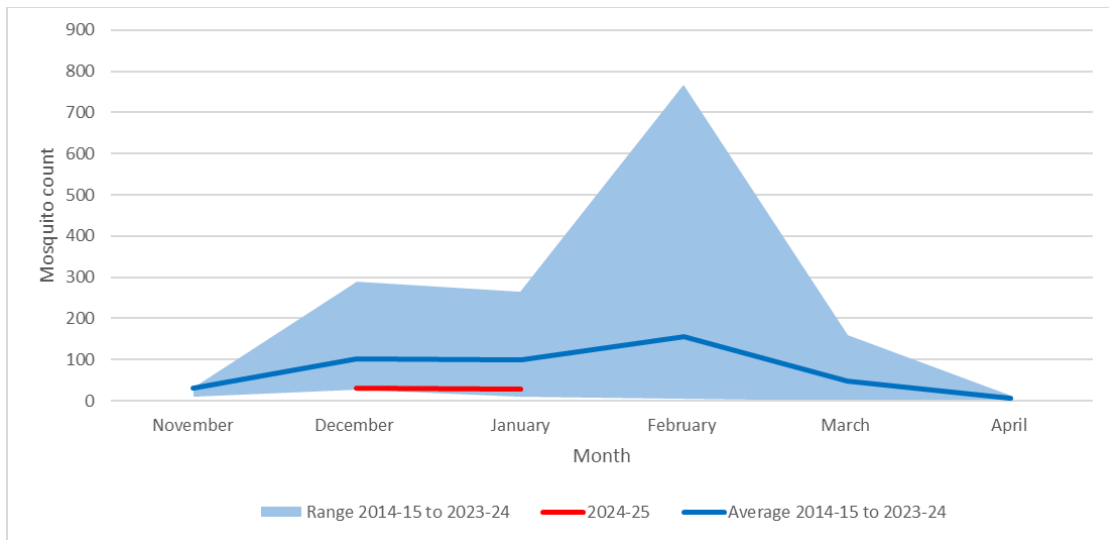


Daily average mosquito numbers, by month, for the current season and 2014 to 2024 seasons

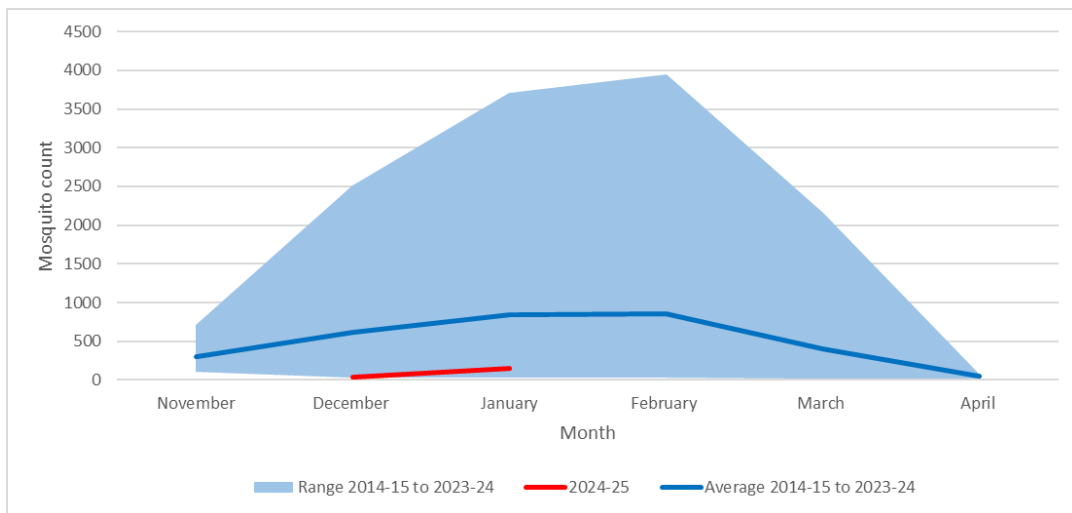
Site	Season	Average mosquito count					
		November	December	January	February	March	April
Illawong	This season	N/A <sup>#</sup>	31	28			
	All previous seasons*	(18 - 37)	(11 - 272)	(28 - 283)	(10 - 772)	(6 - 165)	(1 - 13)
Alfords Point	This season	N/A <sup>#</sup>	36	145			
	All previous seasons*	(57 - 664)	(105 - 2589)	(33 - 3718)	(27 - 3954)	(26 - 2165)	(14 - 78)
Picnic Point (SWSLHD)	This season	63	115	177			
	All previous seasons*	(5 - 1157)	(11 - 3006)	(9 - 5639)	(6 - 6672)	(14 - 2624)	(7 - 139)

\*2014-15 to 2023-24 range; # N/A - did not trap this month

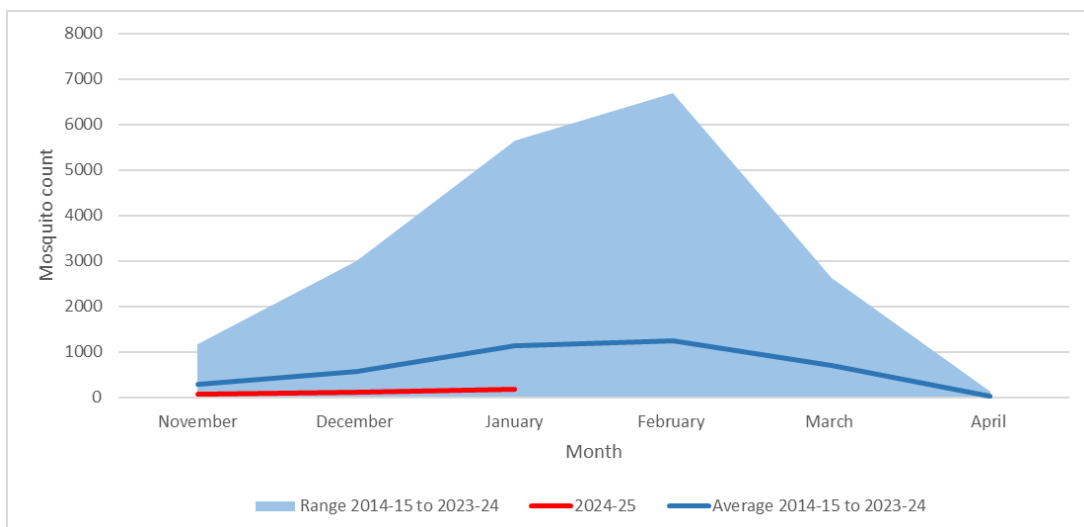
**Illawong – average monthly mosquito count, seasons 2014-15 to 2023-24 and 2024-25**



**Alfords Point – average monthly mosquito count, seasons 2014-15 to 2023-24 and 2024-25**



**Picnic Point – average monthly mosquito count, seasons 2014-15 to 2023-24 and 2024-25**



**b. Matraville**

From season 2022-23 the Public Health Unit has been conducting mosquito surveillance in Matraville near an international freight terminal. Its purpose is to determine a baseline for the types and abundance of mosquitoes in this part of the District.

**Mosquito surveillance site in Matraville**



During January 2025 total mosquito counts were of a median number compared to previous seasons, and no exotic mosquitoes were detected.

**Mosquito numbers as a daily average per month at Matraville, by season**

		Average mosquito count					
		November	December	January	February	March	April
	This season	N/A#	33	40			
Season	All previous seasons*	(17 -82)	(41-46)	(18 -77)	(47-75)	(39-62)	34

\*2022-23 to 2023-24 range; # N/A - did not trap this month