

Government of **Western Australia** Department of **Health**

Medical Entomology Quarterly Report Pilbara Health Region: Apr – Jun 2021



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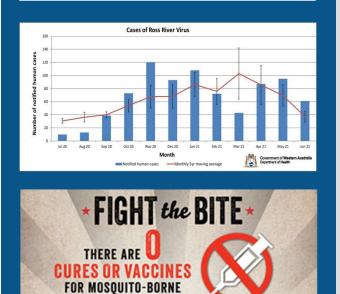
Ross River virus disease case data summary Western Australia: 2020/21

Data reflected in this summary of mosquito-borne disease is taken from the Western Australia Notifiable Infectious Disease Database (WANIDD) and includes enhanced surveillance data collected by Population Health Units and local governments (only locations with notified cases of disease are shown in tables and figures).

Ross River virus (RRV) Western Australia

A total of 243 cases of RRV have been reported between 1 April 2021 and 30 June 2021 in Western Australia. Of these 195 cases were notified by Doctor and follow-up data is available for 83 cases.

The number of cases was **significantly above** the 5-year moving average for May and June and average for April.

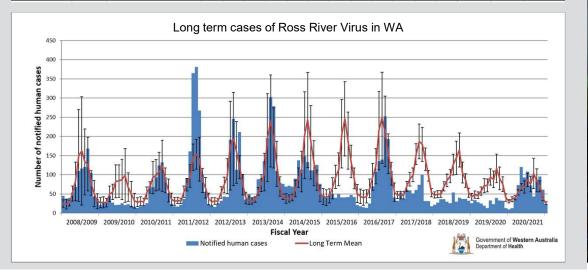


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DISEASES IN WA

www.healthywa.wa.gov.au/FIGHTTHEBITE

Serologically confirmed doctor-notified and laboratory reported cases of Ross River virus disease each month in WA, July 2020 - June 2021 # *Compiled by the Medical Entomology, WA Department of Health Crude Age Std REGION Total Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Rate Rate KIMBERLEY 36.2 34.8 PILBARA 14.5 14.1 GASCOYNE 312.6 304.5 MIDWEST 101.7 100.1 WHEATBELT 58.7 59.5 METRO 10.4 10.1 PEEL 37.5 37.2 LESCHENAULT 93.2 92.0 GEOGRAPHE 257.9 247.6 ELSEWHERE SW 93.9 92.9 SOUTH WEST 80.3 116.4 116.4 GREAT SOUTHERN 66.2 63.0 GOLDFIELDS-ESPERANCE WA UNDETERMINED INTERSTATE WA TOTAL (does not include interstate) 120 93 108 71



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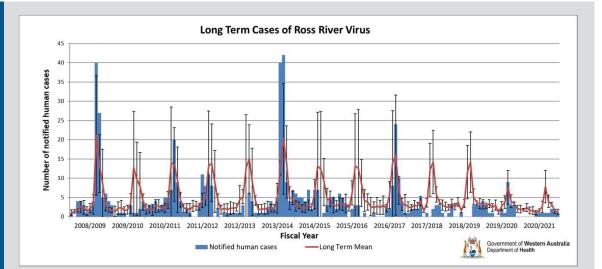


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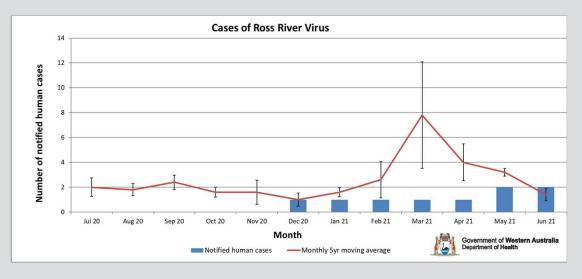
Ross River virus (RRV) Pilbara Health Region

5 RRV cases for the Pilbara Health Region with all 5 cases notified by Doctor. Follow-up data is available for 1 case.

The number of cases was **significantly below** the 5-year moving average in April and May and **significantly above** average in June.



RRV 2021	Apr	May	Jun	Total		
Pilbara	1	2	2	5		
Ashburton (S)	1	2	1	4		
ONSLOW	1	2		3		
TOM PRICE			1	1		
Karratha (C)			1	1		
POINT						
SAMSON			1	1		
Total	1	2	2	5		



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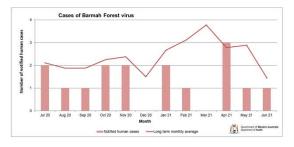
Barmah Forest virus disease case data summary Pilbara Health Region and State summary: Apr - Jun 2021

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Barmah Forest virus (BFV) Western Australia

A total of 5 cases of BFV have been reported between 1 April 2021 and 30 June 2021 in Western Australia. 4 were notified by Doctor and follow-up data is available for 2 of these cases.

The number of cases was below the 5-year moving average for May and June.

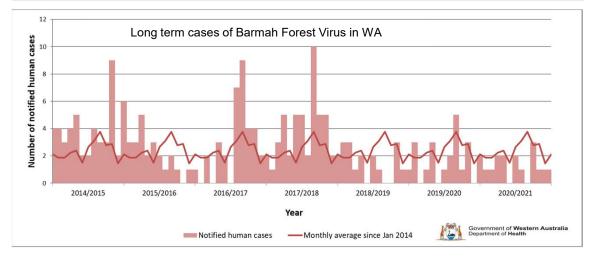


Barmah Forest virus (BFV) Pilbara Health Region

No BFV cases in the Pilbara Health Region between April - June 2021.

The 5-year moving average is less than one case per month for this region.

disease each month in WA, July 2020 - June 2021 # *Compiled by the Medical Entomology, WA Department of Health																
REGION		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Crude Rate	Age Std Rate
KIMBERLEY		2	0	1	1	0	0	2	1	0	2	0	0	9	25.1	23.
PILBARA		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
GASCOYNE		0	0	0	0	1	0	0	0	0	0	1	0	2	21.6	24.2
MIDWEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
WHEATBELT		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
METRO		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
	PEEL	0	0	0	0	0	0	0	0	0	0	0	1	1	0.4	0.3
	LESCHENAULT	0	0	0	0	1	0	0	0	0	0	0	0	1	1.4	1.7
	GEOGRAPHE	0	0	0	1	0	0	0	0	0	1	0	0	2	3.5	3.4
	ELSEWHERE SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
SOUTH WEST		0	0	0	1	1	0	0	0	0	1	0	1	4	0.9	
GREAT SOUTHER	N	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
GOLDFIELDS-ESF	PERANCE	0	1	0	0	0	0	0	0	0	0	0	0	1	1.8	1.6
WA UNDETERMIN	ED	0	0	0	0	0	0	0	0	0	0	0	0	0		
INTERSTATE		0	0	0	0	0	0	0	0	0	0	0	0	0		
WA TOTAL (does	not include interstate)	2	1	1	2	2	0	2	1	0	3	1	1	16		



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Predicted impact of climatic conditions on mosquito breeding

The El Niño–Southern Oscillation (ENSO) remains neutral. Climate model outlooks indicate this neutral phase will last at least until October. The IOD is currently negative and predicted to last throughout spring. Despite this BOM are predicting lower than average rainfall across much of the state for the next few months.

Impact on mosquito breeding: In the north of state, warmer days and nights are conducive to mosquito breeding and possible mosquito-borne virus activity. Both MVE and Kunjin virus activity has been detected in some Kimberley and Pilbara sentinel chicken flocks from April through to August 2021.

El Niño-Southern Oscillation (ENSO)

A weather forecast based on interaction between the atmosphere and tropical Pacific Ocean. Conditions can be El Niño, La Niña or neutral:

El Niño: Associated with drier conditions, decreased rainfall and tidal activity. Warmer days in south. Late start to northern wet season with less cyclones and less flooding.

La Niña: Associated with wetter, cooler days and warmer nights (due to increased cloud cover). Earlier start to the northern wet season with more tropical cyclones. More conducive to mosquito breeding and possible mosquito-borne virus activity.

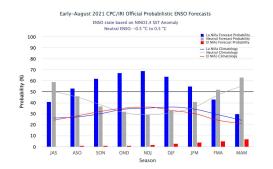
Indian Ocean Dipole (IOD)

Positive IOD: Brings below average winter-spring rainfall, warmer days in the west, warmer nights in the south west, and cooler nights in the north.

Negative IOD: Brings above average winter-spring rainfall, cooler days in the south, and warmer nights in the north with increased chances of flooding.

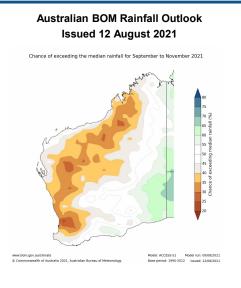
International Research Institute for Climate and Society (IRI ENSO) Forecast

Issued 12 August 2021

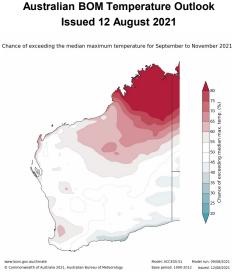


ENSO Alert Status: El Niño-Southern Oscillation likely to remain neutral to October





Despite the negative IOD, Rainfall is likely to be at or below average for most of the state.



Daytime temperatures are likely to be average for the state with the exception of the far north which is predicted to be above average.

