

Medical Entomology Quarterly Report Wheatbelt Region: Jul – Sep 2020



Ross River virus disease case data summary

Wheatbelt Health Region: Jul-Sep 2020

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)

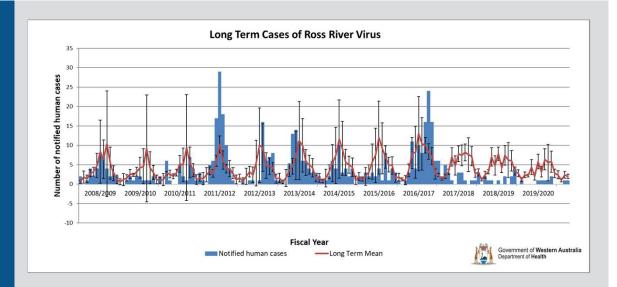
Wheatbelt Health Region

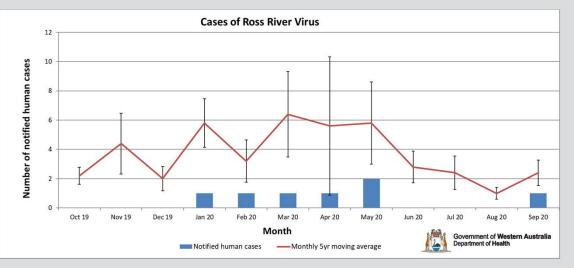
1 RRV case this quarter for the Wheatbelt Health region. This case was notified by Doctor, however no follow-up data is available.

The number of cases has been significantly below the 5-year moving average for all months.

Wheatbelt Health Region

RRV 2020	Jul	Aug	Sep	Total
Wheatbelt			1	1
Chittering (S)			1	1
CHITTERING			1	1
Total			1	1





Ross River virus disease case data summary

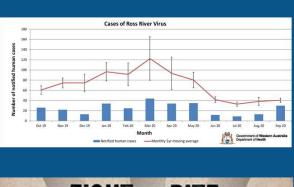
Western Australia: 2019/20

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

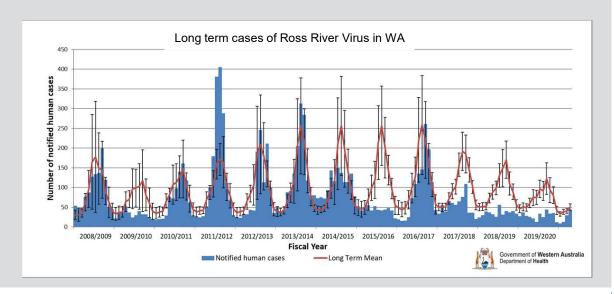
A total of 48 cases of RRV have been reported between 1 July 2020 and 30 September 2020 in Western Australia. 31 cases were notified by Doctor and follow-up data is available for 17 cases.

The number of cases was significantly below the 5-year moving average.





Serologically confirmed doctor-notified and laboratory reported cases of Ross River virus																
	dise	ease ea	ch m	onth	in W	A, Ju	ly 20	20	June	2021	#					
	I Cam	piled by	h = 11.	diant			14/4				a fels					
	Com	pilea by i	ne me	dicai	Enton	lology	, WA	Depar	unent	or He	aiui					
REGION		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Crude Rate	Age Std Rate
KIMBERLEY		0	0	1	0	0	0	0	0	0	0	0	0	1	2.8	3.2
PILBARA		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0
GASCOYNE		0	0	1	2	0	0	0	0	0	0	0	0	3	31.8	30.9
MIDWEST		0	4	4	6	1	0	0	0	0	0	0	0	15	24.7	22.8
WHEATBELT		0	0	1	0	0	0	0	0	0	0	0	0	1	1.5	1.4
METRO		2	3	11	12	1	0	0	0	0	0	0	0	29	1.6	1.5
	PEEL	2	3	4	15	3	0	0	0	0	0	0	0	27	9.9	9.7
	LESCHENAULT	1	0	3	1	1	0	0	0	0	0	0	0	6	8.1	8.2
	GEOGRAPHE	1	1	4	3	7	0	0	0	0	0	0	0	16	28.1	27.4
	ELSEWHERE SW	0	0	0	1	0	0	0	0	0	0	0	0	1	2.1	2.1
SOUTH WEST		4	4	11	20	11	0	0	0	0	0	0	0	50	11.1	
GREAT SOUTHERN		1	1	0	1	0	0	0	0	0	0	0	0	3	4.9	4.1
GOLDFIELDS-ESPE	RANCE	0	0	0	1	0	0	0	0	0	0	0	0	1	1.8	1.8
WA UNDETERMINE	D	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 n	ot include interstate)	7	12	29	42	13	0	0	0	0	0	0	0	103		



Barmah Forest virus disease case data summary

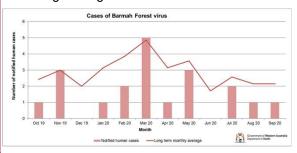
Wheatbelt Health Region and State summary: 2019/20

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).

Barmah Forest virus (BFV) Western Australia

A total of 4 cases of BFV have been reported between 1 July 2020 and 30 September 2020 in Western Australia. 2 were notified by Doctor and follow-up data is available for 1 case.

The number of cases was below the 5-year moving average.

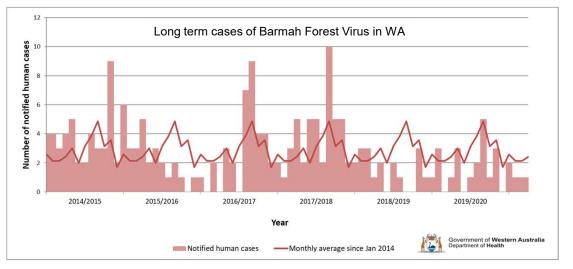


Barmah Forest virus (BFV) Wheatbelt Health Region

No BFV cases were notified in the Wheatbelt Health Region between Jul-Sep 2020.

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

Sero	logically confirmed o						-	•				arma	n For	est vir	us	
	dise	ease ea	ch m	onth	in W	A, Ju	ly 20	20 - 、	June	2021	#					,
	*Com	piled by t	he Me	dical	Enton	ology	WA	Denar	tment	of He	alth					
	00	pilou by .		U.O.		ology		- Cpui								
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	0	0	0	0	0	0	4	11.1	9.
PILBARA		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	0	0	1	10.6	12.
MIDWEST		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.
METRO		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	0	0	0.0	0.
	LESCHENAULT	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.
	GEOGRAPHE	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.
	ELSEWHERE SW	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.
SOUTH WEST		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	
GREAT SOUTHERN		0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.
GOLDFIELDS-ESPERA	ANCE	0	1	0	0	0	0	0	0	0	0	0	0	1	1.8	1.
WA UNDETERMINED		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	1	1	0	0	0	0	0	0	0	6		



Climate outlook for Western Australia

Dec – Feb 2020

Predicted impact of climatic conditions on mosquito breeding

La Niña is underway and is likely to continue until at least end of summer 20-21 (February 2021).

The IOD is currently neutral, having less influence on WA's climate and most models suggest it will remain neutral for the rest of 2020.

Impact on mosquito breeding: Above average rainfall conditions and warmer nights (across the state) are conducive to mosquito breeding and possible mosquito-borne virus activity. Recent surveillance of mosquitoes has also detected increased virus prevalence across the SW.

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:

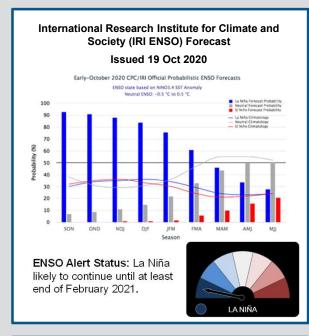
El Niño: Associated with drier conditions, decreased rainfall and tidal activity. Warmer days in south. Late start to northern wet season with less cyclones and less flooding.

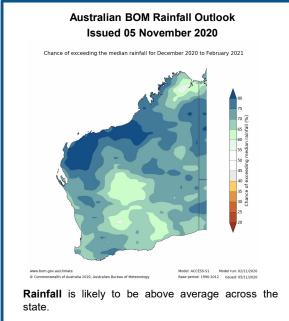
La Niña: Associated with wetter, cooler days and warmer nights (due to increased cloud cover). Earlier start to the northern wet season with more tropical cyclones. More conducive to mosquito breeding and possible mosquito-borne virus activity.

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.





Australian BOM Temperature Outlook Issued 05 November 2020 Chance of exceeding the median maximum temperature for December 2020-February 2021 Daytime temperatures are likely to be warmer than average for the far west of WA and at or below average for the rest of the state. Chance of exceeding the median minimum temperature for December 2020-February 2021



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Base period: 1990-2012 | Issued: 05/11/2020