

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

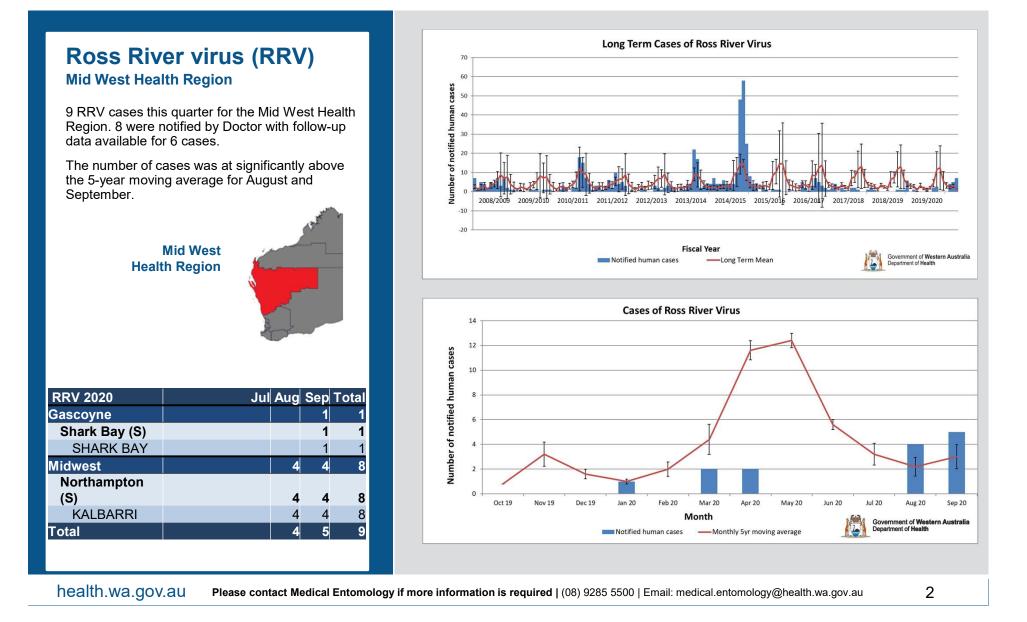
# Medical Entomology Quarterly Report Mid West Health Region: Jul- Sep 2020



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# Ross River virus disease case data summary Mid West 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).



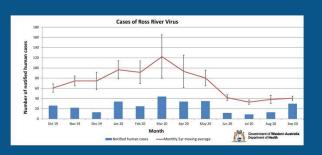
# Ross River virus disease case data summary Western Australia: 2019/20

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

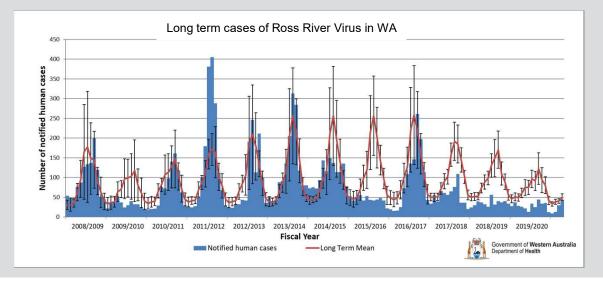
A total of 48 cases of RRV have been reported between 1 July 2020 and 30 September 2020 in Western Australia. 31 cases were notified by Doctor and follow-up data is available for 17 cases.

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





	dise	ease ea	ch m	onth	in W	A, Ju	ly 20	20	June	2021	#					
	* Com	piled by 1	the Me	dical	Enton	nology	, WA	Depar	tment	of He	alth					
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.
PILBARA		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.
MIDWEST		0	4	4	6	1	0	0	0	0	0	0	0	15	24.7	22.
WHEATBELT		0	0	1	0	0	0	0	0	0	0	0	0	1	1.5	1.
METRO		2	3	11	12	1	0	0	0	0	0	0	0	29	1.6	1.
	PEEL	2	3	4	15	3	0	0	0	0	0	0	0	27	9.9	9.
	LESCHENAULT	1	0	3	1	1	0	0	0	0	0	0	0	6	8.1	8.
	GEOGRAPHE	1	1	4	3	7	0	0	0	0	0	0	0	16	28.1	27.
	ELSEWHERE SW	0	0	0	1	0	0	0	0	0	0	0	0	1	2.1	2.
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.
GOLDFIELDS-ESPERANCE		0	0	0	1	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)	7	12	29	42	13	0	0	0	0	0	0	0	103		



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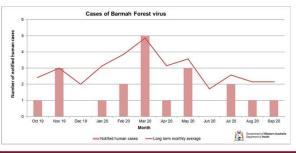
# Barmah Forest virus disease case data summary Mid West Health Region and State summary: Jul- Sep 2020

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).

#### 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.

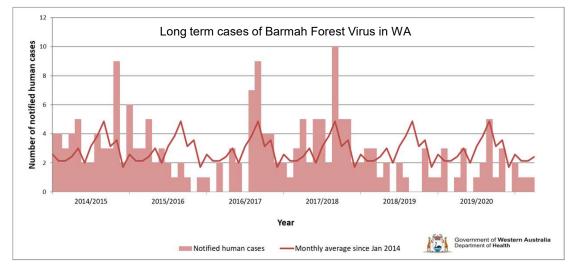


#### Barmah Forest virus (BFV) Mid West Health Region

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

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

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	dise	ease ea	icn m	onth	IN W	A, Ju	ily 20	20	June	2021	#					
	* Com	piled by t	the Me	dical	Enton	nology	WA	Depar	tment	of He	alth					
REGION		Jul										May	Jun	Total	Crude Rate	Age Std Rate
KIMBERLEY		2	0	1	1	0	0	0	0	0	0	0	0	4	11.1	9.8
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	0	0	1	10.6	12.
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	0	0	0.0	0.0
	LESCHENAULT	0	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	0.0
	ELSEWHERE SW	0	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	0.0
GOLDFIELDS-ESPERANCE		0	1	0	0	0	0	0	0	0	0	0	0	1	1.8	1.6
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		



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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:

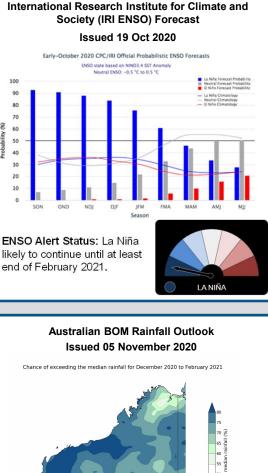
**El Niño:** Associated with drier conditions, decreased rainfall and tidal activity. Warmer days in south. Late start to northern wet season with less cyclones and less flooding.

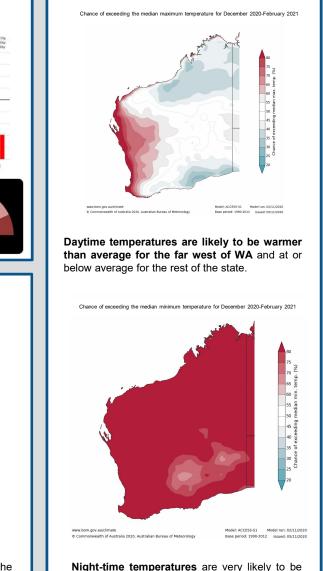
La Niña: Associated with wetter, cooler days and warmer nights (due to increased cloud cover). Earlier start to the northern wet season with more tropical cyclones. More conducive to mosquito breeding and possible mosquito-borne virus activity.

#### 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.





warmer than average across most of the state.

Australian BOM Temperature Outlook

Issued 05 November 2020

Rainfall is likely to be above average across the state.

Iodel: ACCESS-S1

Model run: 02/11/2020

Base period: 1990-2012 issued: 05/11/2020

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