



Data reflected in this summary of mosquito-borne disease in the East Metro Region 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).

Apr May

Ross River virus (RRV)

There were 11 RRV cases notified by lab, during this quarter. This includes 5 that were also notified by doctor. Follow up data are available for the case from Bayswater. The number of RRV cases has been significantly below the 5 year moving average for all months except June 2019 when the number of cases was within the normal range. During 2018/19 there was a total 35 cases.

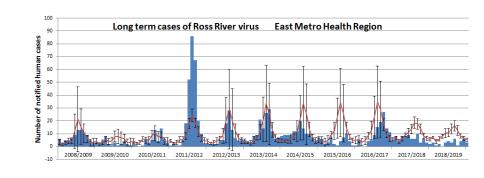
DDV 2010

Barmah Forest virus (BFV)

There was one BFV case notified by lab only during this quarter. This was the only case reported during 2018/19. No follow up data are available. Another case reported from Lesmurdie in February 2019 has been removed from WANIDD. The 5 year moving average is less than one case per month for this region.

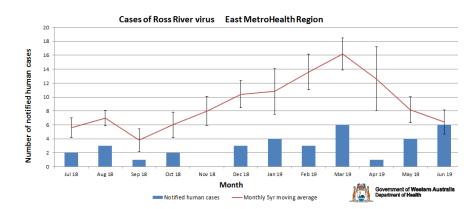
BFV 2019	Apr	May	Jun	Total
Metro			1	1
Kalamunda (S)			1	1
LESMURDIE			1	1
Total			1	1

RRV 2019	Apr	May	Jun	lotal
Metro	1	4	5	10
Bayswater (C)	1		1	2
BAYSWATER	1		1	2 3
Kalamunda (S)		2	1	3
HIGH WYCOMBE		1	1	2
KALAMUNDA		1		1
Mundaring (S)			1	1
HELENA VALLEY			1	1
South Perth (C)		1		1
SOUTH PERTH		1		1
Swan (C)		1	1	2
SOUTH GUILDFORD			1	1
BENNETT SPRINGS		1		1
Victoria Park (T)			1	1
CARLISLE			1	1
Wheatbelt			1	1
Toodyay (S)			1	1
MORANGUP			1	1
Total	1	4	6	11







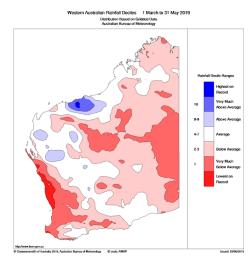




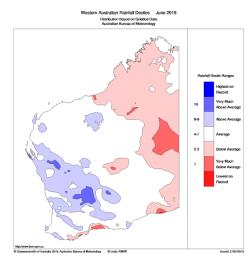


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Relative Rainfall Mar – May (Autumn) 2019



Relative Rainfall June 2019



			diseas	e eac	h moi	nth in	WA,	July 2	018 -	June	2019	#					
[#] Compiled by the Medical Entomology, WA Department of Health																	
REGION			Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total	Crude	Age std
KIMBERLEY			3	4	0	0	3	0	1	1	1	1	2	1	17	47.1	58.1
PILBARA			0	1	3	0	0	1	0	0	0	3	3	3	14	22.8	17.3
GASCOYNE			1	0	0	0	0	0	0	0	0	0	0	0	1	10.4	11.3
MIDWEST			0	1	0	0	1	0	0	0	0	1	1	1	5	8.1	7.0
WHEATBELT			2	0	1	1	1	0	1	0	2	0	2	4	14	20.2	18.9
METRO			7	8	12	16	13	7	23	15	13	16	21	11	162	9.4	9.1
		PEEL	5	7	13	10	5	8	18	9	9	11	6	5	106	39.8	38.2
		LESCHENAULT	1	2	2	3	3	2	3	1	6	0	1	4	28	38.0	36.9
		GEOGRAPHE	2	2	3	2	3	2	2	2	4	1	Ó	2	25	44.6	44.2
		ELSEWHERE SW	0	0	0	1	1	0	2	0	1	1	0	0	6	12.7	11.3
SOUTHWEST			8	11	18	16	12	12	25	12	20	13	7	11	165	37.2	
GREAT SOUTHE	RN		1	1	0	2	0	2	3	1	2	0	1	1	14	23.1	20.9
GOLDFIELDS-ES	SPERAN	CE	0	1	2	1	1	2	0	0	2	1	0	1	11	43.2	44.4
WA UNDETERMI	NED		0	0	0	0	0	0	0	0	0	0	0	0	0		
INTERSTATE			0	0	1	0	2	1	2	2	0	2	0	1	11		
WA TOTAL (doe	s not in	clude interstate)	22	27	36	36	31	24	53	29	40	35	37	33	403		
1) Data current as at 23/	07/2019 - t	able may vary from previous or fu	ture versi	ons due I	o inclus	ion of ac	ditional	enhanc	ed surv	eillance	data						
Communicable Disease	Control Dir	ectorate from participating path	ology labo	ratories)	Enhan	ced Sur	veillance	Data (o	omprisi	ng case	follow-u	ips from	Environ	mental h	lealth Officer	s; patient intervi	aws; Doctor's
3) Month of onset and s	uburb/towr	of exposure determined from Er	hanced S	ourveillar	nce Data	where a	available	, and fro	m Doct	or's notif	ications	or labor	atory re	oorts wh	ere not availa	ible	
4) Data varies from offic	ial Western	Australian Notifiable Infectious)iseases [)atabase	records	s due to	inclusio	n of Enh	anced S	Surveillar	nce Data						

where the largest portion of the suburb occurs

7) This information is the intellectual property of the Biological and Applied Environmental Health Hazards unit of the WA Department of Health and may not be used for any purpose without prior permission



El Niño conditions are associated with a decrease in rainfall and tidal activity.

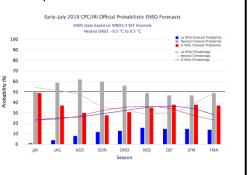
La Niña brings wetter and warmer than normal weather which can increase mosquito breeding and mosquito borne diseases.

Positive Indian Ocean Dipole brings below average winter–spring rainfall, above average temperatures.

Australian Bureau of Meteorology (BOM) ENSO issued 9 July 2019

The El Niño–Southern Oscillation (ENSO) is currently neutral - neither El Niño nor La Niña. While the possibility of El Niño can't be completely ruled out for 2019, the tropical Pacific Ocean is expected to remain in an ENSO-neutral phase over the coming months meaning the ENSO Outlook remains at **INACTIVE.** Model outlooks indicate a positive Indian Ocean Dipole is likely to be the dominant climate driver for Australia's weather for much of the rest of 2019, meaning an increased likelihood of a drier than average winter-spring.

International Research Institute for Climate and society IRI ENSO Forecast issued 11 July 2019 The official CPC/IRI outlook, still with an El Niño advisory, calls for a 60% chance of ENSO-neutral by Jul-Sep, and neutral remains the most likely category through northern hemisphere fall and winter.



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Australian BOM Climate Outlook issued 11 July 2019

A drier than average August to October is likely for large parts of the country, including the northern half of Australia, southwest WA. The month of August is likely to be drier for the far southwest of WA.

Warmer August to October days likely nationwide. Chances are very high (greater than 80%) for the

high (greater than 80%) for the northern half of the country and inland southern WA.

Nights are also likely to be warmer than average for much of Australia.

Historical accuracy for August to October maximum temperatures is moderate to high for most of Australia, except for parts of the Pilbara in WA. Minimum temperature accuracy is moderate for most of Australia but patchy across the southeast quarter and western WA.

