

Summary information about overseas- acquired vectorborne disease notifications in Australia

Fortnight ending 23 February 2019

Quarterly surveillance period 26 November 2018 to 23 February 2019

Introduction

This report provides summary information on notifications of exotic vectorborne disease in Australia, including chikungunya, dengue, malaria and Zika. Overseas acquired cases of other rare conditions such as Japanese encephalitis are also reported.

The data are extracted from the National Notifiable Diseases Surveillance System (NNDSS) and published fortnightly on Wednesdays, and contain data up to the previous Saturday. New notifications are those with a notification receive date within the past fortnight and may relate to cases of disease with onset in earlier time periods. Data tables are provided by diagnosis date, which represents the onset date, or where the onset date is unknown, the earliest of a range of other dates.

The quarterly rolling mean represents the average of the equivalent 90 days over the previous 5 years. Further explanations and technical notes about these data are located on the technical notes page.

Due to the dynamic nature of the NNDSS, data in this extract is subject to retrospective revision and may vary from data reported in published NNDSS reports and reports of notification data by states and territories.

New notifications

Table 1: Notifications of overseas-acquired vectorborne diseases during the past fortnight, by country of acquisition

Country	Chikungunya virus infection	Dengue virus						Malaria	Zika Virus infection
		Serotype 1	Serotype 2	Serotype 3	Serotype 4	Untyped/unknown	Total		
Burundi	0	0	0	0	0	0	0	1	0
Cambodia	0	0	0	0	0	0	1	0	0
Colombia	0	0	0	0	0	0	1	0	0
Congo, Democratic Republic of	0	0	0	0	0	0	0	1	0
Ghana	0	0	0	0	0	0	1	0	0
India	1	0	0	0	0	0	0	0	0
Indonesia	0	0	2	1	1	18	22	0	0
Kenya	0	0	0	0	0	0	1	0	0
Malaysia	0	0	0	1	0	4	5	0	0
Maldives	0	0	0	0	0	0	1	0	0
Mozambique	0	0	0	0	0	0	0	1	0
Papua New Guinea	0	0	0	0	0	0	0	1	0
Philippines	0	0	0	1	0	2	3	0	0
Singapore	0	0	0	0	0	1	1	0	0
South Sudan	0	0	0	0	0	0	0	1	0
Sri Lanka	0	0	0	0	0	3	3	0	0
Sub-Saharan Africa, nfd	0	0	0	0	0	0	0	1	0
Sudan	2	0	0	0	0	0	0	0	0
Tanzania	0	0	0	0	0	0	0	2	0
Thailand	1	0	0	0	0	4	4	0	0
Timor-Leste	0	2	0	0	0	0	2	0	0
Uganda	0	0	0	0	0	0	0	2	0
Vietnam	0	0	0	0	0	1	1	0	0
Zambia	0	0	0	0	0	0	0	2	0
Country data not provided/not available*	0	1	0	0	0	3	4	1	0
Total	4	2	2	3	1	38	46	10	0

Source: National Notifiable Diseases Surveillance System (NNDSS)

NFD- Not further defined

*These notifications may be updated as more information becomes available

Summary tables

Table 2: Confirmed cases of chikungunya virus infection during the past quarter, and comparison to the quarterly rolling mean, by month and place of acquisition

Country	2014	2015	2016	2017	2018	2019 YTD	Notifications for the past 90 days	Quarterly rolling 5 year mean	Ratio past 90 days to the rolling 5 year mean
India	4	12	62	26	22	0	4	2.4	1.7
Sudan	0	0	0	0	1	2	2	0.0	0.0
Thailand	1	1	1	4	0	2	2	0.4	5.0
Country data not provided/not available*	2	1	1	0	1	1	1	0.4	2.5
Indonesia	45	23	18	8	5	0	0	5.8	0.0
Philippines	3	2	7	5	2	0	0	1.6	0.0
Vietnam	0	0	0	4	1	0	0	0.0	0.0
Samoa	25	20	2	0	1	0	0	7.4	0.0
Nepal	0	0	1	0	1	0	0	0.0	0.0
Nigeria	0	1	0	0	1	0	0	0.2	0.0
Ghana	0	0	0	0	1	0	0	0.2	0.0
Tanzania	0	0	0	0	1	0	0	0.0	0.0
Bangladesh	0	0	1	35	0	0	0	0.4	0.0
Somalia	0	0	0	4	0	0	0	0.6	0.0
Colombia	0	9	0	2	0	0	0	1.0	0.0
Pakistan	0	0	0	2	0	0	0	0.0	0.0
Papua New Guinea	0	0	0	2	0	0	0	0.0	0.0
Sri Lanka	1	0	1	1	0	0	0	0.4	0.0
Cambodia	0	0	0	1	0	0	0	0.0	0.0
New Caledonia	0	0	0	1	0	0	0	0.0	0.0
Peru	0	0	0	1	0	0	0	0.0	0.0
South Africa	0	0	0	1	0	0	0	0.0	0.0
South-East Asia, nfd	0	0	0	1	0	0	0	0.0	0.0
Southern and East Africa, nfd	0	0	0	1	0	0	0	0.0	0.0
Fiji	0	0	11	0	0	0	0	0.4	0.0
Timor-Leste	0	11	4	0	0	0	0	0.2	0.0
Tonga	7	1	1	0	0	0	0	0.2	0.0
Honduras	0	1	1	0	0	0	0	0.0	0.0
Botswana	0	0	1	0	0	0	0	0.0	0.0
Cuba	0	0	1	0	0	0	0	0.2	0.0
Myanmar, The Republic of the Union of	0	0	1	0	0	0	0	0.2	0.0
Cook Islands	0	5	0	0	0	0	0	0.0	0.0
Kiribati	0	5	0	0	0	0	0	1.0	0.0
Nauru	0	5	0	0	0	0	0	0.0	0.0
French Polynesia	0	3	0	0	0	0	0	0.6	0.0
Mexico	0	3	0	0	0	0	0	0.0	0.0
Jamaica	4	1	0	0	0	0	0	0.2	0.0
Central America, nfd	2	1	0	0	0	0	0	0.0	0.0
El Salvador	2	1	0	0	0	0	0	0.2	0.0
Kenya	0	1	0	0	0	0	0	0.2	0.0
Malaysia	0	1	0	0	0	0	0	0.2	0.0
Nicaragua	0	1	0	0	0	0	0	0.0	0.0
South America, nec	0	1	0	0	0	0	0	0.2	0.0
Taiwan	0	1	0	0	0	0	0	0.0	0.0
Caribbean, nfd	2	0	0	0	0	0	0	0.2	0.0
Grenada	2	0	0	0	0	0	0	0.0	0.0
United States of America	2	0	0	0	0	0	0	0.0	0.0
Barbados	1	0	0	0	0	0	0	0.0	0.0
Dominican Republic	1	0	0	0	0	0	0	0.0	0.0
Ethiopia	1	0	0	0	0	0	0	0.0	0.0
Samoa, American	1	0	0	0	0	0	0	0.0	0.0
Singapore	1	0	0	0	0	0	0	0.2	0.0
Sub-Saharan Africa, nfd	1	0	0	0	0	0	0	0.0	0.0
Trinidad and Tobago	1	0	0	0	0	0	0	0.0	0.0
Venezuela, Bolivarian Republic of	1	0	0	0	0	0	0	0.2	0.0
Total	110	111	114	99	37	5	9	25.2	0.4

Source: National Notifiable Diseases Surveillance System (NNDSS)

*These notifications may be updated as more information becomes available

Table 3: Confirmed and probable cases of dengue virus infection during the past quarter, and comparison to the quarterly rolling mean, by month and country of acquisition

Country	2014	2015	2016	2017	2018	2019 YTD	Notifications for the past 90 days	Quarterly rolling 5 year mean	Ratio past 90 days to the rolling 5 year mean
Indonesia	813	970	1,344	210	130	65	84	177.2	0.5
Thailand	137	133	101	141	152	17	26	26.6	1.0
Philippines	67	73	83	37	61	13	21	20.2	1.0
Country data not provided/not available*	14	32	2	4	10	12	17	2.6	6.5
Vietnam	15	25	44	44	27	11	16	13.2	1.2
Sri Lanka	40	39	57	104	59	6	15	23.4	0.6
Malaysia	81	81	66	39	21	11	14	22.0	0.6
Cambodia	10	20	22	7	26	7	13	3.4	3.8
India	37	51	88	152	109	3	10	13.6	0.7
Nauru	11	1	0	10	6	3	6	0.6	10.0
Singapore	15	15	14	5	8	3	5	5.0	1.0
Papua New Guinea	11	29	106	25	31	1	4	6.4	0.6
Maldives	5	5	6	3	13	1	4	0.8	5.0
Fiji	106	10	11	47	25	2	2	15.6	0.1
South-East Asia, nfd	5	17	29	11	17	2	2	6.2	0.3
Timor-Leste	36	15	35	28	5	2	2	7.2	0.3
Solomon Islands	8	7	43	32	4	2	2	8.8	0.2
Vanuatu	33	1	4	97	3	1	2	15.4	0.1
China (excludes SARs and Taiwan)	2	2	0	1	3	1	2	0.4	5.0
Colombia	3	0	2	2	2	1	1	0.8	1.3
Overseas - Country unknown	3	2	11	4	0	1	1	1.6	0.6
Kenya	2	0	2	0	0	1	1	0.0	0.0
Ghana	0	0	0	0	0	1	1	0.0	0.0
Tonga	15	36	1	0	23	0	1	7.2	0.1
New Caledonia	1	1	2	10	5	0	1	0.8	1.3
Somalia	2	1	3	2	2	0	1	0.8	1.3
Hong Kong (SAR of China)	1	1	0	0	1	0	1	0.4	2.5
Samoa	1	10	41	49	82	0	0	28.4	0.0
Bangladesh	1	16	13	16	13	0	0	0.8	0.0
Kiribati	0	0	0	0	11	0	0	0.0	0.0
French Polynesia	10	1	7	0	4	0	0	0.8	0.0
Pakistan	0	4	4	0	4	0	0	0.2	0.0
Myanmar, The Republic of the Union of	9	11	3	11	3	0	0	3.0	0.0
Mexico	1	2	3	3	3	0	0	1.0	0.0
South Africa	0	0	0	0	3	0	0	0.0	0.0
Brazil	2	9	7	0	2	0	0	1.2	0.0
Southern Asia, nfd	1	0	1	0	2	0	0	0.2	0.0
Sub-Saharan Africa, nfd	0	0	0	3	1	0	0	0.2	0.0
Nigeria	1	0	0	2	1	0	0	0.2	0.0
Tanzania	3	0	0	1	1	0	0	0.4	0.0
Uganda	1	0	0	1	1	0	0	0.4	0.0
Oceania and Antarctica, nfd	0	0	0	1	1	0	0	0.2	0.0
Sierra Leone	0	0	0	1	1	0	0	0.2	0.0
South America, nec	1	1	2	0	1	0	0	0.0	0.0
Japan	1	0	1	0	1	0	0	0.2	0.0
Paraguay	0	0	1	0	1	0	0	0.2	0.0
Polynesia (excludes Hawaii), nfd	1	0	0	0	1	0	0	0.0	0.0
Burkina Faso	0	0	0	0	1	0	0	0.0	0.0
Guinea	0	0	0	0	1	0	0	0.0	0.0
Japan and the Koreas, nfd	0	0	0	0	1	0	0	0.0	0.0
Palau	0	0	0	0	1	0	0	0.0	0.0
Nepal	0	0	3	3	0	0	0	0.0	0.0
South America, nfd	0	6	4	1	0	0	0	0.4	0.0
Laos	0	2	3	1	0	0	0	0.0	0.0
Ethiopia	0	1	1	1	0	0	0	0.2	0.0
Mauritius	0	0	1	1	0	0	0	0.0	0.0
Samoa, American	0	0	1	1	0	0	0	0.0	0.0
Congo, Republic of	1	0	0	1	0	0	0	0.0	0.0
Italy	0	0	0	1	0	0	0	0.0	0.0
Niue	0	0	0	1	0	0	0	0.0	0.0
Southern and East Africa, nec	0	0	0	1	0	0	0	0.0	0.0
Spain	0	0	0	1	0	0	0	0.0	0.0
Cuba	2	3	3	0	0	0	0	0.4	0.0
Nicaragua	2	2	3	0	0	0	0	0.8	0.0
Argentina	0	0	3	0	0	0	0	0.2	0.0
Costa Rica	4	1	2	0	0	0	0	0.6	0.0
Guatemala	2	1	2	0	0	0	0	0.0	0.0
Taiwan	0	1	2	0	0	0	0	0.2	0.0
Peru	1	0	2	0	0	0	0	0.2	0.0
Seychelles	0	0	2	0	0	0	0	0.2	0.0
Mainland South-East Asia, nfd	2	4	1	0	0	0	0	0.6	0.0
Polynesia (excludes Hawaii), nec	2	1	1	0	0	0	0	0.0	0.0
United States of America	0	1	1	0	0	0	0	0.4	0.0
Brunei Darussalam	1	0	1	0	0	0	0	0.0	0.0
Central America, nfd	1	0	1	0	0	0	0	0.2	0.0
Melanesia, nfd	1	0	1	0	0	0	0	0.0	0.0
Sudan	1	0	1	0	0	0	0	0.0	0.0
Cook Islands	0	0	1	0	0	0	0	0.0	0.0
Dominican Republic	0	0	1	0	0	0	0	0.2	0.0
El Salvador	0	0	1	0	0	0	0	0.2	0.0
Jordan	0	0	1	0	0	0	0	0.2	0.0
South Sudan	0	0	1	0	0	0	0	0.0	0.0
Tokelau	0	0	1	0	0	0	0	0.2	0.0
Venezuela, Bolivarian Republic of	0	0	1	0	0	0	0	0.2	0.0
Zambia	0	0	1	0	0	0	0	0.0	0.0
North Africa, nfd	2	1	0	0	0	0	0	0.2	0.0
Djibouti	0	1	0	0	0	0	0	0.2	0.0
Eastern Europe, nfd	0	1	0	0	0	0	0	0.0	0.0
Eritrea	0	1	0	0	0	0	0	0.0	0.0
Saudi Arabia	0	1	0	0	0	0	0	0.0	0.0
Tuvalu	2	0	0	0	0	0	0	0.0	0.0
Barbados	1	0	0	0	0	0	0	0.0	0.0
Honduras	1	0	0	0	0	0	0	0.0	0.0
Panama	1	0	0	0	0	0	0	0.2	0.0
Total	1,533	1,649	2,206	1,116	884	167	255	423.8	0.6

Source: National Notifiable Diseases Surveillance System (NNDS)

NFD- Not further defined

*These notifications may be updated as more information becomes available

Table 4: Confirmed malaria during the past quarter, and comparison to the quarterly rolling mean, by month and country of acquisition

Country	2014	2015	2016	2017	2018	2019 YTD	Notifications for the past 90 days	Quarterly rolling 5 year mean	Ratio past 90 days to the rolling 5 year mean
Country data not provided/not available*	3	3	2	2	36	10	15	2.0	7.5
Tanzania	12	8	14	4	26	5	15	1.8	8.3
Papua New Guinea	30	38	45	62	57	8	12	16.2	0.7
Uganda	19	19	16	25	34	4	6	4.4	1.4
Chad	1	0	0	0	17	0	6	0.2	30.0
Burundi	1	1	4	7	4	5	5	1.2	4.2
Sierra Leone	15	3	11	22	12	4	5	4.4	1.1
Kenya	17	15	20	13	15	2	5	5.6	0.9
Ghana	15	6	6	16	9	2	5	2.4	2.1
Zambia	10	6	11	3	6	2	4	3.0	1.3
Nigeria	5	16	15	20	28	1	3	2.4	1.3
Guinea	1	0	5	10	5	2	2	1.8	1.1
Congo, Republic of	5	3	3	2	5	2	2	0.4	5.0
Sub-Saharan Africa, nfd	6	0	4	4	2	2	2	1.2	1.7
Sudan	29	29	23	25	24	1	2	7.8	0.3
Congo, Democratic Republic of	1	1	4	4	11	1	2	0.2	10.0
Rwanda	1	4	1	1	2	1	2	1.0	2.0
Solomon Islands	5	6	7	9	12	1	1	3.4	0.3
South Sudan	3	0	12	15	8	1	1	1.2	0.8
Liberia	4	3	1	10	2	1	1	0.8	1.3
Mozambique	3	1	1	3	2	1	1	0.4	2.5
Thailand	1	2	0	2	0	1	1	0.2	5.0
India	42	17	26	31	21	0	1	2.6	0.4
Ethiopia	5	5	1	2	3	0	1	0.4	2.5
Malaysia	1	0	0	1	2	0	1	0.2	5.0
Vietnam	0	0	0	1	1	0	1	0.2	5.0
Pakistan	14	6	5	9	11	0	0	0.6	0.0
Cambodia	4	3	0	4	6	0	0	2.2	0.0
South Africa	2	1	2	6	5	0	0	0.8	0.0
Malawi	1	0	8	3	5	0	0	0.2	0.0
Indonesia	23	6	15	15	4	0	0	3.0	0.0
Cote d'Ivoire	2	0	2	2	4	0	0	0.8	0.0
Burkina Faso	1	0	3	1	3	0	0	0.0	0.0
Central and West Africa, nfd	1	1	1	1	3	0	0	0.4	0.0
Cameroon	1	5	1	1	2	0	0	0.2	0.0
Senegal	0	1	0	0	2	0	0	0.4	0.0
Peru	2	1	0	1	1	0	0	0.2	0.0
Korea, Republic of (South)	1	0	2	0	1	0	0	0.0	0.0
Equatorial Guinea	0	0	1	0	1	0	0	0.0	0.0
Niger	0	0	1	0	1	0	0	0.0	0.0
Laos	1	1	0	0	1	0	0	0.6	0.0
Gabon	1	0	0	0	1	0	0	0.2	0.0
Western Sahara	1	0	0	0	1	0	0	0.2	0.0
Brazil	0	0	0	0	1	0	0	0.0	0.0
Italy	0	0	0	0	1	0	0	0.0	0.0
Turkey	0	0	0	0	1	0	0	0.0	0.0
Zimbabwe	3	3	0	4	0	0	0	0.6	0.0
Afghanistan	1	1	0	4	0	0	0	0.2	0.0
Somalia	0	0	0	3	0	0	0	0.4	0.0
Overseas - Country unknown	11	12	20	2	0	0	0	1.6	0.0
Mali	3	4	2	2	0	0	0	0.4	0.0
South-East Asia, nfd	0	1	1	2	0	0	0	0.2	0.0
Southern and East Africa, nec	5	0	1	2	0	0	0	0.0	0.0
Madagascar	0	0	1	1	0	0	0	0.0	0.0
Myanmar, The Republic of the Union of	1	1	0	1	0	0	0	0.4	0.0
Eritrea	3	0	0	1	0	0	0	0.0	0.0
China (excludes SARs and Taiwan)	1	0	0	1	0	0	0	0.0	0.0
Egypt	1	0	0	1	0	0	0	0.2	0.0
Botswana	0	0	0	1	0	0	0	0.0	0.0
Philippines	0	0	0	1	0	0	0	0.0	0.0
Saudi Arabia	0	0	0	1	0	0	0	0.2	0.0
South America, nec	0	0	0	1	0	0	0	0.2	0.0
Angola	0	0	2	0	0	0	0	0.4	0.0
Guinea-Bissau	1	0	1	0	0	0	0	0.4	0.0
Southern and East Africa, nfd	1	0	1	0	0	0	0	0.0	0.0
Central African Republic	0	0	1	0	0	0	0	0.0	0.0
Honduras	0	0	1	0	0	0	0	0.0	0.0
Singapore	0	1	0	0	0	0	0	0.2	0.0
Togo	2	0	0	0	0	0	0	0.0	0.0
Brunei Darussalam	1	0	0	0	0	0	0	0.0	0.0
United Arab Emirates	1	0	0	0	0	0	0	0.2	0.0
Total	325	234	304	365	399	57	102	80.8	1.3

Source: National Notifiable Diseases Surveillance System (NNDSS)

NFD- Not further defined

*These notifications may be updated as more information becomes available

Table 5: Confirmed and probable Zika cases during the past quarter, and comparison to the quarterly rolling mean, by month and country of acquisition

Country	2014	2015	2016	2017	2018	2019 YTD	Notifications for the past 90 days	Quarterly rolling 5 year mean	Ratio past 90 days to the rolling 5 year mean
Indonesia	0	1	3	0	1	0	1	0.2	5.0
Fiji	0	1	14	0	1	0	0	0.6	0.0
Vanuatu	1	2	0	0	1	0	0	0.2	0.0
Cuba	0	0	0	2	0	0	0	0.0	0.0
Thailand	0	0	0	2	0	0	0	0.0	0.0
Mexico	0	0	12	1	0	0	0	0.4	0.0
Colombia	0	1	2	1	0	0	0	0.4	0.0
Americas, nfd	0	0	0	1	0	0	0	0.2	0.0
India	0	0	0	1	0	0	0	0.0	0.0
Philippines	0	0	0	1	0	0	0	0.2	0.0
Tonga	0	0	19	0	0	0	0	3.0	0.0
Samoa	0	0	8	0	0	0	0	1.2	0.0
Brazil	0	0	5	0	0	0	0	0.4	0.0
Central America, nfd	0	0	4	0	0	0	0	0.0	0.0
Guatemala	0	0	3	0	0	0	0	0.6	0.0
South America, nec	0	0	3	0	0	0	0	0.4	0.0
Trinidad and Tobago	0	0	3	0	0	0	0	0.0	0.0
Vietnam	0	0	3	0	0	0	0	0.0	0.0
El Salvador	0	1	2	0	0	0	0	0.6	0.0
Barbados	0	0	2	0	0	0	0	0.0	0.0
Dominican Republic	0	0	2	0	0	0	0	0.0	0.0
Haiti	0	0	2	0	0	0	0	0.4	0.0
South-East Asia, nfd	0	0	2	0	0	0	0	0.0	0.0
Solomon Islands	0	2	1	0	0	0	0	0.0	0.0
Polynesia (excludes Hawaii), nfd	0	1	1	0	0	0	0	0.0	0.0
Belize	0	0	1	0	0	0	0	0.0	0.0
Caribbean, nfd	0	0	1	0	0	0	0	0.0	0.0
Costa Rica	0	0	1	0	0	0	0	0.0	0.0
Country data not provided/not available*	0	0	1	0	0	0	0	0.0	0.0
Curacao	0	0	1	0	0	0	0	0.2	0.0
Guyana	0	0	1	0	0	0	0	0.2	0.0
Jamaica	0	0	1	0	0	0	0	0.0	0.0
Nicaragua	0	0	1	0	0	0	0	0.0	0.0
Panama	0	0	1	0	0	0	0	0.0	0.0
South America, nfd	0	0	1	0	0	0	0	0.0	0.0
United States of America	0	0	1	0	0	0	0	0.0	0.0
Marshall Islands	0	1	0	0	0	0	0	0.0	0.0
Cook Islands	12	0	0	0	0	0	0	0.0	0.0
Total	13	10	102	9	3	0	1	9.2	0.1

Source: National Notifiable Diseases Surveillance System (NNDS)

NFD- Not further defined

*These notifications may be updated as more information becomes available