



Salt Marsh Mosquito Pest Calendar for the Coastal Top End NT 2015



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Aedes vigilax – northern salt marsh mosquito

Medical Entomology
Centre for Disease Control
Department of Health
Northern Territory Government

See www.health.nt.gov.au/Medical_Entomology/index.aspx

Salt Marsh Mosquito Pest Periods in the Coastal Top End of the NT

The northern salt marsh mosquito, *Aedes vigilax*, can pose appreciable seasonal pest problems around the northern Australian coast near the most productive breeding sites of the upper tidal section of extensive mangrove areas, brackish swamps with extensive reed growth, or flood plains associated with tidal rivers.

Aedes vigilax is likely to cause moderate to high pest problems around the northern coast following the highest monthly tides in the late dry season and early wet season. In Darwin the critical tide of 7.6m in March or April indicates the start of the salt marsh mosquito breeding season but numbers are usually relatively low and are usually restricted to within 1km of the prime breeding sites. *Aedes vigilax* mosquitoes can be very numerous from the mid dry season to the early wet season (August to January). Generally the numbers increase after each succeeding spring tide from August to December and reach their highest numbers in December after the highest spring tide or after a combination of high tides and the early heavy rains. The pattern and levels of abundance can vary from one year to another, due to the variable height of the monthly spring tides each year and the amount and timing of rain in relation to the tides. In Darwin, monthly tides above 7.5m from October to December usually indicates an appreciable rise in salt marsh mosquitoes will start 9 days after the highest tide that month.

Aedes vigilax is likely to pose an appreciable pest problem for 7 to 14 days per month from the mid dry season to the early wet season, within 2km of appreciable areas of breeding sites. The newly emerged adult mosquitoes start flying around 9 days after the first initiating tide of the month, and generally persist as a pest problem around 7 days after the highest tide of the month from the mid dry season to November. Pest problems may last from 7-14 days in humid conditions in the December to January period. The larvae are usually absent in the major habitats from the mid wet to late March or April, as the prime habitats are usually flooded during these months and have high numbers of aquatic predators such as fish. From April, the salt marsh habitats progressively dry out and if initiating tides over 7.6m occur in this period, the seasonal breeding cycle can be re-started.

Aedes vigilax is regarded as the most important pest mosquito in the Top End of the NT because of its aggressive biting habits, its ability to bite during the day as well as the night, and its sudden emergence in plague proportions. They can disperse over long distances of up to 50km but are generally more common within 5km of extensive breeding sites and particularly in dense forest areas within 1 to 2km of extensive breeding sites. There can be a sudden appearance of salt marsh mosquitoes seeking blood 9 days after the flooding of the prime breeding sites. Salt marsh mosquito numbers exceeding 50 in a CO₂ baited EVS trap per night is considered a minor pest problem in the vicinity of the trap, with numbers over 500 indicating a very high pest problem.

The highest numbers of *Aedes vigilax* can be expected between October and December, with average numbers per CO₂ trap per night of 500 to 1,000 experienced within 2km of extensive areas of prime breeding sites. High numbers can be expected between August and September, depending on the level of monthly high tides, with average numbers of 50 to 500 per trap night. Moderate to high numbers can occur from early to late January after the first heavy rains, with average *Ae. vigilax* numbers of 50 to 300 per trap night. Low numbers generally occur from April to July, with average numbers of 5 to 50 per trap night. Negligible numbers usually occur from late January to April.

Aedes vigilax is a vector of Ross River virus and Barmah Forest virus disease in the Top End of the NT. The greatest potential transmission period for these viruses in the Top End is in December and January, when *Ae. vigilax* occurs in relatively high numbers and humid conditions extend the longevity of the mosquito population. Older mosquitoes present at the tail ends of the highest pest periods when *Ae. vigilax* numbers are low, can pose a higher potential risk for Ross River virus transmission, as they have had more time to acquire the virus from animal reservoirs. Personal protection, such as full-length trousers, long sleeved shirts, socks and shoes, and the use of insect repellents containing DEET or Picaridin is needed to provide protection from salt marsh mosquitoes particularly during these predicted pest periods, and also during periods outside these higher pest periods in locations when salt marsh mosquitoes are observed to be present.

This calendar shows periods when pest numbers of *Aedes vigilax* are expected in the Darwin area in 2015 in relation to Darwin Harbour tides. Other coastal areas of the NT near extensive breeding sites will generally have pest problems around these same periods each month.

Note: October – December:

High or moderate numbers of *Ae. vigilax* might occur outside the indicated high pest periods between October and December 2014 due to rain events causing additional problems 9 days after rain 20mm or over in tidal coastal swamps.

High pest period (November to December)

Highest numbers of *Aedes vigilax* November to December

Days highlighted in red indicate expected highest numbers of the salt marsh mosquito *Aedes vigilax*. These extremely high *Ae. vigilax* numbers can occur for up to 14 days in the early wet season (November to December) starting 9 days after the first initiating tide of the monthly highest tide cluster, and can present a severe pest problem.

Moderate to high numbers of *Aedes vigilax* August to October

Days highlighted in orange indicate expected moderate to high numbers of the salt marsh mosquito *Aedes vigilax*. Moderate to high numbers can occur for 7 days starting 9 days after the first initiating tide of the monthly highest tide cluster in the late dry season to early wet season between August and October, and present a high pest problem.

Moderate pest period (January to August)

Moderate numbers of *Aedes vigilax* January, May to August (rain dependant)

Days highlighted in yellow indicate expected moderate numbers of the salt marsh mosquito *Aedes vigilax*. Moderate numbers can occur in early to late January for 7 to 14 days starting 9 days after heavy rainfall, or for 7 days starting 9 days after a monthly high tide in the dry season between May and August, and present a moderate pest problem.

Low numbers of *Aedes vigilax* April to May

Days highlighted in blue indicate expected low numbers of the salt marsh mosquito *Aedes vigilax*. Low numbers can occur in the early dry season from April to May, following any relatively high monthly tide, and can present a minor pest problem. Negligible numbers generally occur from late January to early April.

For more information on salt marsh mosquitoes or personal protection, please contact: Medical Entomology, CDC, DoH Darwin on (08) 89228901

Disclaimer:

The following Tide Calendar is from the Bureau of Meteorology.

<http://www.bom.gov.au/australia/tides/#!/nt-darwin>

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Salt Marsh Mosquito Pest Calendar for the Coastal Top End of the NT

DARWIN – NORTHERN TERRITORY

LAT 12° 28' LONG 130° 51'

Times and Heights of High and Low Waters

2015

Local Time

JANUARY		FEBRUARY		MARCH		APRIL	
Time	m	Time	m	Time	m	Time	m
1 0146 5.69	16 0038 5.40	1 0404 5.42	16 0305 5.32	1 0235 4.91	16 0031 5.03	1 0445 5.64	16 0354 5.94
TH 0913 2.13	FR 0813 2.70	SU 1101 2.04	MO 1009 2.22	SU 0934 2.85	MO 0753 2.84	WE 1103 2.67	TH 1017 2.38
1543 5.87	FR 1507 5.32	SU 1732 6.49	MO 1651 6.31	SU 1620 5.76	MO 1458 5.64	WE 1710 6.26	TH 1628 6.57
2130 3.75	2039 4.06	2348 3.32	2251 3.46	2256 3.65	2117 3.83	2338 2.65	2257 2.09
2 0305 5.65	17 0208 5.33	2 0459 5.74	17 0417 5.82	2 0409 5.25	17 0251 5.23	2 0524 6.08	17 0454 6.61
1018 1.82	0932 2.36	1147 1.75	1108 1.67	1046 2.53	0938 2.53	1141 2.37	1113 2.01
FR 1650 6.35	SA 1623 5.88	MO 1813 6.87	TU 1740 6.93	MO 1710 6.22	TU 1616 6.20	TH 1741 6.56	FR 1714 6.99
2245 3.52	2206 3.81	2348 3.32	2343 2.87	2339 3.19	2232 3.21	2338 2.65	2343 1.44
3 0408 5.80	18 0331 5.56	3 0025 2.97	18 0513 6.41	3 0501 5.67	18 0408 5.84	3 0005 2.28	18 0548 7.20
1110 1.53	1035 1.88	0542 6.05	1158 1.17	1132 2.20	1047 2.01	0600 6.47	1159 1.73
SA 1743 6.79	SU 1715 6.48	TU 1224 1.51	WE 1824 7.47	TU 1748 6.61	WE 1709 6.80	FR 1212 2.13	SA 1753 7.30
2341 3.22	2306 3.43	1848 7.15		2339 3.19	2324 2.52	1809 6.81	
4 0458 6.00	19 0430 5.96	4 0056 2.68	19 0028 2.27	4 0010 2.81	19 0506 6.52	4 0029 1.94	19 0025 0.90
1153 1.29	1126 1.38	0619 6.33	0603 6.95	0542 6.08	1139 1.54	0633 6.79	0637 7.63
SU 1826 7.12	MO 1801 7.03	WE 1254 1.37	TH 1240 0.82	WE 1208 1.91	TH 1753 7.31	SA 1241 1.97	SU 1239 1.60
	2355 2.99	1918 7.32	● 1904 7.86	1821 6.91		○ 1834 7.00	● 1828 7.48
5 0024 2.95	20 0520 6.40	5 0123 2.43	20 0111 1.72	5 0037 2.48	20 0008 1.83	5 0055 1.63	20 0104 0.56
0539 6.21	1211 0.94	0653 6.55	0652 7.38	0617 6.43	0559 7.14	0704 7.03	0721 7.85
MO 1231 1.14	TU 1845 7.50	TH 1323 1.31	FR 1320 0.68	TH 1238 1.70	FR 1222 1.20	SU 1306 1.91	MO 1317 1.64
○ 1904 7.33	●	1945 7.40	1939 8.07	1849 7.13	● 1832 7.69	1857 7.11	1902 7.49
6 0059 2.73	21 0040 2.56	6 0149 2.23	21 0151 1.28	6 0101 2.18	21 0050 1.24	6 0122 1.38	21 0143 0.44
0618 6.37	0606 6.79	0725 6.68	0739 7.63	0648 6.71	0647 7.61	0733 7.17	0802 7.85
TU 1304 1.09	WE 1252 0.64	FR 1348 1.37	SA 1356 0.78	FR 1305 1.59	SA 1302 1.07	MO 1331 1.93	TU 1354 1.82
1938 7.42	1925 7.83	2009 7.41	2011 8.08	○ 1913 7.28	1906 7.89	1921 7.13	1936 7.33
7 0132 2.57	22 0123 2.16	7 0215 2.09	22 0231 1.02	7 0125 1.91	22 0130 0.80	7 0151 1.24	22 0222 0.58
0654 6.46	0652 7.09	0756 6.73	0823 7.65	0718 6.90	0732 7.87	0801 7.21	0817 7.64
WE 1335 1.14	TH 1331 0.53	SA 1411 1.52	SU 1432 1.10	SA 1330 1.58	SU 1338 1.15	TU 1358 2.04	WE 1430 2.13
2008 7.42	2003 7.99	2031 7.33	2042 7.91	1936 7.34	1938 7.90	1945 7.05	2010 7.01
8 0203 2.47	23 0205 1.83	8 0244 2.01	23 0311 0.99	8 0151 1.71	23 0208 0.59	8 0221 1.23	23 0300 0.93
0730 6.48	0739 7.24	0828 6.67	0907 7.45	0747 7.01	0814 7.89	0831 7.16	0919 7.27
TH 1403 1.29	FR 1409 0.64	SU 1434 1.77	MO 1507 1.62	SU 1352 1.67	MO 1413 1.43	WE 1422 2.24	TH 1507 2.53
2034 7.33	2037 7.99	2053 7.19	2112 7.55	1957 7.32	2008 7.72	2010 6.87	2044 6.54
9 0234 2.43	24 0248 1.62	9 0315 2.01	24 0352 1.18	9 0218 1.58	24 0246 0.64	9 0253 1.35	24 0339 1.45
0654 6.46	0827 7.22	0900 6.53	0950 7.04	0718 6.90	0854 7.67	0902 7.01	0957 6.80
FR 1429 1.53	SA 1447 0.97	MO 1456 2.10	TU 1541 2.27	MO 1415 1.85	TU 1448 1.88	TH 1452 2.51	FR 1547 2.97
2059 7.19	2110 7.82	2114 6.95	2142 7.04	2019 7.20	2039 7.36	2038 6.60	2121 5.99
10 0307 2.44	25 0331 1.55	10 0349 2.10	25 0435 1.58	10 0248 1.57	25 0326 0.95	10 0328 1.60	25 0419 2.05
0839 6.26	0915 7.01	0935 6.30	1037 6.49	0845 6.93	0934 7.25	0937 6.75	1038 6.30
SA 1454 1.86	SU 1525 1.51	TU 1519 2.51	WE 1615 2.96	TU 1438 2.12	WE 1523 2.43	FR 1526 2.88	SA 1638 3.39
2124 6.99	2143 7.49	2138 6.64	2213 6.42	2041 6.99	2110 6.84	2108 6.22	2206 5.40
11 0342 2.50	26 0417 1.65	11 0425 2.27	26 0522 2.09	11 0320 1.67	26 0405 1.45	11 0406 1.93	26 0506 2.64
0917 6.02	1005 6.63	1014 6.00	1129 5.91	0917 6.74	1016 6.71	1019 6.40	1127 5.82
SU 1519 2.25	MO 1603 2.17	WE 1545 2.98	TH 1701 3.62	WE 1503 2.47	TH 1558 3.02	SA 1611 3.29	SU 1758 3.68
2150 6.72	2216 7.03	2204 6.26	● 2251 5.74	2104 6.69	2142 6.21	2147 5.78	● 2322 4.88
12 0421 2.60	27 0506 1.89	12 0506 2.48	27 0621 2.59	12 0354 1.89	27 0448 2.07	12 0451 2.32	27 0608 3.12
0957 5.73	1100 6.16	1103 5.66	1242 5.44	0952 6.46	1102 6.12	1113 6.02	1230 5.47
MO 1545 2.70	TU 1643 2.90	TH 1627 3.49	FR 1838 4.12	TH 1531 2.91	FR 1646 3.59	SU 1717 3.66	MO 1940 3.67
2218 6.40	● 2252 6.48	● 2236 5.84		2129 6.30	● 2222 5.53	● 2246 5.31	
13 0505 2.72	28 0601 2.19	13 0555 2.68	28 0002 5.11	13 0430 2.18	28 0539 2.67	13 0552 2.69	28 0130 4.71
1047 5.42	1203 5.69	1207 5.35	0747 2.91	1035 6.10	1201 5.60	1226 5.71	0730 3.37
TU 1623 3.19	WE 1739 3.57	FR 1748 3.97	SA 1440 5.35	FR 1609 3.39	SA 1819 3.99	MO 1902 3.79	TU 1400 5.37
● 2251 6.04	2336 5.90	2327 5.43	2114 4.12	2200 5.86	2339 4.91		2119 3.37
14 0555 2.82	29 0710 2.45	14 0704 2.79	29 0747 5.27	14 0515 2.50	29 0854 3.12	14 0034 5.02	29 0314 5.04
1148 5.16	1329 5.41	1347 5.29		1132 5.72	1332 5.33	0719 2.89	0902 3.34
WE 1728 3.67	TH 1913 4.04	SA 1943 4.19		SA 1717 3.86	SU 2048 3.95	TU 1406 5.73	WE 1524 5.55
2335 5.69				● 2249 5.39		2052 3.43	2214 2.96
15 0657 2.84	30 0049 5.39	15 0103 5.15	30 0839 3.24	15 0617 2.77	30 0222 4.76	15 0239 5.31	30 0412 5.48
1311 5.06	FR 0836 2.52	0841 2.66		1256 5.46	MO 0839 3.24	0901 2.75	1014 3.11
TH 1858 4.01	FR 1519 5.56	SU 1547 5.68		SU 1912 4.11	MO 1531 5.52	WE 1531 6.10	TH 1614 5.83
	2114 4.08	2138 3.97			2227 3.49	2204 2.79	2251 2.55
	31 0241 5.22				31 0354 5.16		
	0959 2.34				1011 3.00		
	SA 1639 6.02				TU 1631 5.90		
	2253 3.73				2308 3.04		

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Datum of Predictions is Lowest Astronomical Tide


Times are in local standard time (Time Zone UTC +09:30)

Moon Phase Symbols ● New Moon ○ First Quarter ○ Full Moon ● Last Quarter

High Pest Periods

Moderate Pest Periods

 Highest primary peaks of *Ae. vigilax*

 Moderate primary peaks of *Ae. vigilax*

 High secondary peaks of *Ae. vigilax*

 Moderate to low secondary peaks of *Ae. vigilax*

*This Calendar has been produced by Medical Entomology Northern Territory, using the Tidal Tables template with the authorisation of the Bureau of Meteorology. All highlights pertaining to the Salt-marsh mosquito, *Aedes vigilax* are additions made by Medical Entomology.

Salt Marsh Mosquito Pest Calendar for the Coastal Top End of the NT

DARWIN – NORTHERN TERRITORY

LAT 12° 28' LONG 130° 51'

Times and Heights of High and Low Waters

2015

Local Time

Table with 4 main columns for months MAY, JUNE, JULY, and AUGUST. Each column contains daily tide data (Time, Height in meters) and moon phase symbols. High pest periods are highlighted with color-coded boxes (red, yellow, orange, blue).

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Datum of Predictions is Lowest Astronomical Tide
Times are in local standard time (Time Zone UTC +09:30)

Moon Phase Symbols ● New Moon ☾ First Quarter ☽ Full Moon ○ Last Quarter

- High Pest Periods
Moderate Pest Periods
Highest primary peaks of Ae. vigilax
Moderate primary peaks of Ae. vigilax
High secondary peaks of Ae. vigilax
Moderate to low secondary peaks of Ae. vigilax

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Salt Marsh Mosquito Pest Calendar for the Coastal Top End of the NT

DARWIN – NORTHERN TERRITORY

LAT 12° 28' LONG 130° 51'

Times and Heights of High and Low Waters

2015

Local Time

SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER									
Time	m	Time	m	Time	m	Time	m								
1	0135 0.72 0747 7.74 TU 1404 0.76 2000 7.52	16	0139 1.64 0739 7.01 WE 1358 1.31 2003 6.87	1	0151 1.31 0744 7.56 TH 1420 0.32 2033 7.69	16	0141 2.07 0727 6.84 FR 1359 1.07 2016 7.07	1	0253 2.41 0824 6.58 SU 1515 1.14 2142 7.02	16	0227 2.57 0801 6.41 MO 1442 1.30 2109 6.99	1	0328 2.72 0848 6.04 TU 1531 1.77 2202 6.80	16	0303 2.54 0833 6.37 WE 1506 1.41 2138 7.12
2	0211 0.94 0818 7.64 WE 1444 0.66 2044 7.40	17	0203 1.82 0801 6.90 TH 1427 1.32 2032 6.77	2	0229 1.69 0816 7.25 FR 1500 0.59 2114 7.33	17	0208 2.25 0753 6.66 SA 1430 1.22 2046 6.92	2	0338 2.83 0902 6.02 MO 1557 1.79 2225 6.51	17	0307 2.78 0836 6.10 TU 1519 1.66 2148 6.73	2	0418 2.97 0934 5.57 WE 1609 2.37 2241 6.39	17	0351 2.83 0920 6.08 TH 1547 1.85 2218 6.86
3	0248 1.36 0849 7.35 TH 1526 0.80 2129 7.08	18	0227 2.07 0824 6.68 FR 1458 1.46 2103 6.59	3	0307 2.20 0849 6.76 SA 1541 1.08 2159 6.82	18	0238 2.51 0819 6.38 SU 1503 1.49 2120 6.68	3	0432 3.23 0948 5.39 TU 1645 2.47 2314 6.02	18	0354 3.03 0919 5.72 WE 1602 2.10 2234 6.43	3	0516 3.18 1032 5.10 TH 1656 2.94 2324 6.00	18	0446 2.72 1018 5.74 FR 1634 2.36 2303 6.54
4	0326 1.93 0921 6.89 FR 1609 1.16 2216 6.60	19	0253 2.40 0838 6.38 SA 1532 1.71 2138 6.32	4	0349 2.77 0924 6.14 SU 1626 1.72 2247 6.25	19	0312 2.83 0847 6.01 MO 1540 1.86 2200 6.37	4	0550 3.51 1101 4.81 WE 1749 3.04	19	0455 3.24 1018 5.31 TH 1656 2.56 2329 6.13	4	0623 3.26 1156 4.78 FR 1801 3.41	19	0550 2.75 1132 5.45 SA 1734 2.91 2355 6.22
5	0407 2.58 0954 6.29 SA 1657 1.67 2309 6.05	20	0324 2.80 0911 5.98 SU 1609 2.04 2220 5.99	5	0443 3.32 1005 5.44 MO 1720 2.39 2345 5.73	20	0357 3.21 0921 5.57 TU 1623 2.28 2250 6.02	5	0014 5.65 0726 3.49 TH 1313 4.59 1913 3.38	20	0615 3.28 1148 5.02 FR 1809 2.96	5	0016 5.68 0736 3.17 SA 1344 4.78 1920 3.69	20	0704 2.84 1303 5.38 SU 1853 3.33
6	0458 3.22 1033 5.61 SU 1756 2.21	21	0405 3.24 0939 5.54 MO 1655 2.39 2313 5.64	6	0610 3.71 1120 4.77 TU 1837 2.91	21	0500 3.55 1013 5.10 WE 1722 2.68 2356 5.72	6	0134 5.48 0904 3.17 FR 1505 4.95 2045 3.40	21	0038 5.94 0746 3.02 SA 1340 5.16 1941 3.13	6	0122 5.49 0848 2.91 SU 1519 5.15 2044 3.71	21	0100 5.98 0822 2.35 MO 1437 5.65 2024 3.49
7	0016 5.56 0621 3.71 MO 1141 4.95 1917 2.60	22	0512 3.66 1023 5.05 TU 1757 2.70	7	0106 5.41 0818 3.66 WE 1406 4.60 2017 3.07	22	0634 3.68 1155 4.75 TH 1845 2.93	7	0255 5.58 1003 2.75 SA 1604 5.46 2157 3.20	22	0156 5.96 0902 2.49 SU 1509 5.71 2107 3.03	7	0236 5.49 0947 2.54 MO 1617 5.64 2158 3.55	22	0215 5.91 0932 1.91 TU 1557 6.16 2145 3.39
8	0151 5.35 0829 3.76 TU 1411 4.70 2056 2.64	23	0027 5.38 0652 3.87 WE 1203 4.68 1924 2.81	8	0251 5.49 1002 3.19 TH 1541 5.06 2145 2.90	23	0123 5.66 0824 3.38 FR 1413 4.96 2025 2.87	8	0352 5.81 1041 2.34 SU 1647 5.95 2246 2.95	23	0306 6.16 1002 1.85 MO 1615 6.37 2213 2.79	8	0336 5.65 1030 2.15 TU 1700 6.12 2250 3.31	23	0325 6.03 1030 1.45 WE 1659 6.72 2249 3.15
9	0336 5.60 1023 3.32 WE 1550 5.07 2215 2.39	24	0213 5.45 0853 3.83 TH 1433 4.65 2104 2.57	9	0402 5.81 1049 2.70 FR 1632 5.58 2241 2.62	24	0252 5.93 0940 2.75 SA 1534 5.64 2145 2.53	9	0432 6.05 1112 1.96 MO 1725 6.39 2324 2.72	24	0402 6.45 1052 1.25 TU 1710 6.98 2308 2.54	9	0420 5.87 1107 1.77 WE 1738 6.54 2330 3.07	24	0421 6.24 1121 1.04 TH 1753 7.19 2343 2.88
10	0439 6.01 1115 2.93 TH 1645 5.54 2308 2.10	25	0341 5.91 1009 3.04 FR 1550 5.50 2216 2.10	10	0446 6.14 1122 2.30 SA 1712 6.05 2322 2.35	25	0354 6.36 1032 2.04 SU 1632 6.38 2243 2.15	10	0505 6.28 1140 1.61 TU 1800 6.75 2358 2.54	25	0448 6.72 1137 0.76 WE 1801 7.47 2354 2.34	10	0456 6.11 1141 1.42 TH 1813 6.90	25	0509 6.46 1206 0.77 FR 1840 7.52
11	0524 6.38 1151 2.42 FR 1727 5.96 2348 1.84	26	0437 6.46 1059 2.36 SA 1644 6.22 2310 1.63	11	0520 6.41 1149 1.95 SU 1747 6.44 2355 2.14	26	0443 6.78 1117 1.35 MO 1724 7.05 2332 1.85	11	0534 6.48 1208 1.30 WE 1832 7.03	26	0529 6.92 1219 0.43 TH 1847 7.76	11	0005 2.87 0532 6.34 FR 1214 1.14 1847 7.17	26	0029 2.65 0553 6.62 SA 1247 0.64 1922 7.69
12	0559 6.67 1219 2.10 SA 1802 6.32	27	0522 6.97 1143 1.68 SU 1735 6.88 2355 1.27	12	0549 6.63 1214 1.64 MO 1820 6.76	27	0524 7.12 1159 0.77 TU 1812 7.56	12	0027 2.41 0602 6.64 TH 1236 1.07 1903 7.21	27	0037 2.23 0809 7.01 FR 1258 0.31 1930 7.86	12	0037 2.70 0805 6.51 SA 1247 0.94 1921 7.35	27	0111 2.48 0636 6.70 SU 1325 0.68 2000 7.71
13	0021 1.65 0629 6.87 SU 1244 1.82 1836 6.80	28	0603 7.36 1224 1.07 MO 1822 7.41	13	0024 2.00 0614 6.79 TU 1238 1.37 1850 6.98	28	0014 1.68 0602 7.34 WE 1239 0.96 1857 7.87	13	0054 2.35 0631 6.72 FR 1306 0.94 1933 7.29	28	0118 2.22 0649 6.97 SA 1337 0.42 2010 7.76	13	0109 2.57 0639 6.62 SU 1320 0.86 1954 7.43	28	0153 2.39 0718 6.66 MO 1401 0.89 2034 7.59
14	0050 1.55 0655 6.99 MO 1308 1.58 1906 6.78	29	0036 1.09 0639 7.61 TU 1302 5.59 1908 7.74	14	0051 1.94 0638 6.89 WE 1303 1.16 1919 7.11	29	0054 1.66 0637 7.41 TH 1318 0.18 1940 7.95	14	0123 2.36 0659 6.71 SA 1336 0.93 2003 7.28	29	0159 2.31 0728 6.79 SU 1416 0.73 2048 7.54	14	0144 2.50 0714 6.64 MO 1354 0.91 2027 7.42	29	0233 2.39 0758 6.51 TU 1436 1.23 2107 7.37
15	0115 1.55 0718 7.04 TU 1332 1.41 1935 6.87	30	0114 1.10 0711 7.67 WE 1341 0.33 1951 7.83	15	0116 1.97 0702 6.91 TH 1330 1.06 1947 7.14	30	0132 1.79 0712 7.30 FR 1356 0.26 2020 7.80	15	0154 2.43 0729 6.51 SU 1408 1.05 2035 7.18	30	0242 2.49 0808 6.46 MO 1454 1.20 2126 7.20	15	0221 2.49 0751 6.56 TU 1429 1.09 2101 7.31	30	0313 2.47 0838 6.26 WE 1507 1.67 2137 7.08
				31	0212 2.05 0748 7.02 SA 1436 0.60 2100 7.47					31	0353 2.60 0918 5.95 TH 1534 2.17 2206 6.74				

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Datum of Predictions is Lowest Astronomical Tide

Times are in local standard time (Time Zone UTC +09:30)

Moon Phase Symbols ● New Moon ○ First Quarter ○ Full Moon ● Last Quarter

High Pest Periods

Highest primary peaks of *Ae. vigilax*

Moderate Pest Periods

Moderate primary peaks of *Ae. vigilax*

High secondary peaks of *Ae. vigilax*

Moderate to low secondary peaks of *Ae. vigilax*

*This Calendar has been produced by Medical Entomology Northern Territory, using the Tidal Tables template with the authorisation of the Bureau of Meteorology. All highlights pertaining to the Salt-marsh mosquito, *Aedes vigilax* are additions made by Medical Entomology.