

Table S1. Comparison of estimated age of parous mosquitoes, estimated extrinsic Incubation period + average days post eclosion, the probability that a given mosquito will exceed the EIP, and the number of potential vectors per trap per day, and the incident rate ratio of potential vectors per day. Nogales, SN is used as standard for all statistical comparisons.

Year	Month	City	Total N	Age of Parous Mosquitoes, in days, median (Q1, Q3)	P-value (age) ^a	EIP + 2.63 days, median (Q1, Q3)	P-value (EIP) ^b	Prob. Exceeds EIP, median (Q1, Q3)	No. Potential Vectors/trap/day	IRR (95% CI) ^c
2013	Jul	Nogales, SN	96	4.1 (3.4, 6.5)	Ref.	12.9 (12.7, 13.1)	Ref.	0.00 (0.00, 0.06)	0.16	Ref.
		Tucson*	-	-	-	-	-	-	-	-
		Nogales, AZ	10	20.2 (19.8, 21.8)	< 0.01	13.6 (13.6, 13.6)	<0.001	0.85 (0.82, 0.86)	0.21	1.3 (0.3, 6.2)
		Hermosillo	73	9.0 (4.8, 15.3)	< 0.001	8.8 (8.5, 9.1)	<0.001	0.50 (0.08, 0.88)	0.42	2.1 (0.8, 5.8)
2013	Aug.	Nogales, SN	143	5.2 (4.0, 8.8)	Ref.	15.5 (14.0, 16.3)	Ref.	0.02 (0.00, 0.21)	0.22	Ref.
		Tucson	338	8.4 (5.4, 14.6)	< 0.001	10.7 (10.3, 10.9)	<0.001	0.33 (0.07, 0.80)	1.21	5.2 (2.5, 11.2)
		Nogales, AZ	70	5.3 (3.8, 8.2)	0.83	12.9 (12.4, 15.9)	<0.001	0.03 (0.00, 0.18)	0.32	1.3 (0.4, 4.1)
		Hermosillo	145	7.3 (4.9, 11.7)	0.01	9.3 (9.1, 9.4)	<0.001	0.30 (0.08, 0.72)	0.52	2.2 (1.0, 4.9)
2013	Sept/Oct	Nogales, SN	131	6.7 (5.1, 8.9)	Ref.	30.4 (22.6, 41.8)	Ref.	0.01 (0.00, 0.09)	0.08	Ref.
		Tucson	167	6.3 (4.6, 13.8)	0.6	14.3 (11.3, 18.4)	<0.001	0.09 (0.02, 0.67)	0.55	4.7 (1.4, 17.7)
		Nogales, AZ	102	7.2 (4.4, 12.8)	0.59	21.8 (18.4, 31.0)	0.01	0.02 (0.00, 0.26)	0.56	5.3 (1.2, 27.7)
		Hermosillo	381	6.6 (4.1, 12.7)	0.84	10.0 (9.8, 10.2)	<0.001	0.15 (0.01, 0.73)	1.30	11.0 (3.3, 40.5)
2013		Nogales, SN	370	5.6 (4.0, 8.5)	Ref.	15.6 (13.1, 22.0)	Ref.	0.01 (0.00, 0.12)	0.2	Ref.
		Tucson	-	-	-	-	-	-	-	-
		Nogales, AZ	182	6.5 (4.2, 12.6)	0.11	16.8 (12.9, 21.1)	0.86	0.03 (0.00, 0.27)	0.4	2.1 (0.9, 4.9)
		Hermosillo	599	6.9 (4.3, 12.8)	<0.001	9.4 (9.1, 10.0)	<0.001	0.24 (0.04, 0.75)	0.8	4.0 (2.3, 7.2)
2014	Jul	Nogales, SN	71	8.0 (5.0, 11.9)	Ref.	13.5 (12.1, 14.6)	Ref.	0.20 (0.01, 0.55)	0.27	Ref.
		Tucson	259	9.5 (5.8, 13.6)	0.46	9.4 (9.2, 9.7)	<0.001	0.54 (0.12, 0.79)	1	3.7 (1.5, 9.5)
		Nogales, AZ	22	3.9 (3.3, 4.4)	<0.001	15.2 (14.5, 16.2)	<0.01	0.01 (0.00, 0.02)	0.01	n/a
		Hermosillo	223	7.7 (4.8, 13.8)	0.68	9.9 (9.7, 10.0)	<0.001	0.32 (0.05, 0.78)	0.42	1.5 (0.6, 3.3)
2014	Aug.	Nogales, SN	213	6.7 (4.5, 11.9)	Ref.	16.0 (15.2, 18.1)	Ref.	0.00 (0.00, 0.08)	0.23	Ref.
		Tucson	964	10.3 (5.8, 14.3)	0.02	9.6 (9.4, 10.1)	<0.001	0.57 (0.13, 0.82)	3.74	17.2 (8.3, 37.4)
		Nogales, AZ	56	5.7 (4.4, 8.7)	0.26	15.5 (15.0, 16.8)	0.07	0.00 (0.00, 0.02)	0.06	0.2 (0.0, 1.4)
		Hermosillo	189	8.6 (5.5, 12.3)	0.12	10.3 (10.2, 10.4)	<0.001	0.32 (0.07, 0.66)	0.28	1.5 (0.7, 3.3)
2014	Sept/Oct	Nogales, SN	302	8.1 (5.8, 11.0)	Ref.	28.8 (25.6, 31.1)	Ref.	0.01 (0.00, 0.07)	0.25	Ref.
		Tucson	442	10.3 (4.8, 14.7)	0.29	13.0 (12.3, 15.4)	<0.001	0.39 (0.02, 0.69)	1.62	6.0 (2.4, 15.6)
		Nogales, AZ	122	5.4 (3.8, 11.6)	<0.01	31.3 (25.1, 35.6)	0.04	0.00 (0.00, 0.06)	0.13	0.6 (0.1, 2.9)
		Hermosillo	519	6.4 (4.5, 10.7)	<0.01	10.8 (10.5, 11.0)	<0.001	0.13 (0.02, 0.52)	0.59	2.2 (0.9, 5.1)
2014		Nogales, SN	586	7.8 (5.3, 11.8)	Ref.	20.2 (15.4, 28.6)	Ref.	0.01 (0.00, 0.17)	0.25	Ref.
		Tucson	1665	10.1 (5.6, 14.4)	<0.01	9.9 (9.4, 12.0)	<0.001	0.51 (0.11, 0.77)	2.12	8.4 (5.0, 14.3)
		Nogales, AZ	200	5.0 (3.9, 8.6)	<0.001	18.6 (15.4, 31.1)	0.55	0.00 (0.00, 0.02)	0.07	0.3 (0.1, 0.8)
		Hermosillo	931	7.3 (4.7, 12.4)	0.47	10.3 (10.0, 10.8)	<0.001	0.21 (0.03, 0.68)	0.43	1.8 (1.1, 2.9)

2015	Jul	Nogales, SN	66	5.4 (4.0, 8.1)	Ref.	11.8 (11.6, 12.3)	Ref.	0.02 (0.00, 0.12)	0.08	Ref.
		Tucson	314	4.7 (3.8, 7.3)	0.24	9.6 (9.5, 9.7)	<0.001	0.05 (0.01, 0.26)	0.61	6.8 (2.6, 21.0)
		Nogales, AZ	73	4.7 (3.8, 6.7)	0.32	11.7 (11.5, 12.1)	0.28	0.01 (0.00, 0.05)	0.09	0.5 (0.0, 3.6)
		Santa Ana	206	4.7 (3.9, 6.3)	0.14	9.8 (9.6, 9.9)	<0.001	0.04 (0.02, 0.18)	0.31	3.1 (1.0, 10.6)
		Hermosillo	220	5.6 (3.9, 9.2)	0.73	9.1 (8.9, 9.2)	<0.001	0.15 (0.03, 0.54)	0.68	6.7 (2.6, 20.6)
		Obregon	342	5.3 (4.0, 8.0)	0.73	9.2 (9.1, 9.4)	<0.001	0.08 (0.03, 0.36)	0.97	9.9 (3.9, 30.4)
2015	Aug.	Nogales, SN	163	6.3 (4.3, 10.6)	Ref.	12.7 (12.6, 12.8)	Ref.	0.04 (0.00, 0.34)	0.37	Ref.
		Tucson	390	7.3 (4.9, 11.2)	0.1	9.1 (8.8, 9.3)	<0.001	0.36 (0.10, 0.67)	1.46	3.8 (2.1, 7.0)
		Nogales, AZ	85	6.1 (4.1, 7.8)	0.56	12.7 (12.5, 12.8)	0.43	0.04 (0.00, 0.11)	0.19	0.5 (0.1, 1.6)
		Santa Ana	201	5.2 (4.4, 8.3)	0.37	10.7 (10.1, 11.1)	<0.001	0.09 (0.04, 0.36)	0.54	1.4 (0.7, 2.9)
		Hermosillo	140	7.2 (5.0, 11.9)	0.14	9.9 (9.6, 10.0)	<0.001	0.26 (0.06, 0.65)	0.48	1.2 (0.6, 2.3)
		Obregon	174	5.1 (4.2, 7.6)	0.1	9.7 (9.5, 9.8)	<0.001	0.08 (0.03, 0.30)	0.43	1.1 (0.5, 2.2)
2015	Sept/ Oct	Nogales, SN	188	7.1 (4.8, 11.4)	Ref.	19.9 (19.4, 20.5)	Ref.	0.01 (0.00, 0.10)	0.16	Ref.
		Tucson	640	5.5 (4.1, 8.4)	0.01	10.8 (10.5, 11.2)	<0.001	0.08 (0.02, 0.31)	1.3	7.4 (3.6, 16.3)
		Nogales, AZ	62	4.1 (3.7, 4.5)	<0.001	20.7 (20.3, 21.2)	<0.001	0.00 (0.00, 0.00)	0.03	0.3 (0.0, 1.6)
		Santa Ana	93	5.6 (3.9, 9.6)	0.17	12.8 (12.0, 14.7)	<0.001	0.02 (0.01, 0.34)	0.2	1.1 (0.4, 3.1)
		Hermosillo	109	4.6 (3.9, 7.4)	<0.001	12.0 (11.7, 12.1)	<0.001	0.03 (0.00, 0.19)	0.13	0.9 (0.3, 2.4)
		Obregon	158	5.6 (4.4, 10.0)	0.22	10.8 (10.3, 11.1)	<0.001	0.10 (0.02, 0.45)	0.43	2.5 (1.1, 5.9)
2015		Nogales, SN	417	6.4 (4.4, 10.5)	Ref.	12.9 (12.6, 19.6)	Ref.	0.02 (0.00, 0.19)	0.2	Ref.
		Tucson	1,344	5.9 (4.1, 9.7)	0.15	9.7 (9.3, 10.6)	<0.001	0.13 (0.03, 0.49)	1.1	5.1 (3.3, 8.0)
		Nogales, AZ	220	4.6 (3.8, 6.8)	<0.001	12.7 (12.1, 20.1)	0.1	0.00 (0.00, 0.05)	0.1	0.4 (0.2, 1.1)
		Santa Ana	500	5.0 (4.2, 7.7)	0.01	10.1 (9.8, 11.1)	<0.001	0.06 (0.02, 0.24)	0.4	1.5 (0.9, 2.6)
		Hermosillo	469	5.8 (4.2, 9.7)	0.34	9.7 (9.1, 10.7)	<0.001	0.13 (0.02, 0.50)	0.4	1.9 (1.2, 3.1)
		Obregon	674	5.3 (4.2, 8.4)	0.01	9.6 (9.3, 9.9)	<0.001	0.08 (0.03, 0.36)	0.6	2.7 (1.7, 4.3)

^a Logistic regression for binomial proportions ^b Wilcoxon rank sum test with continuity correction ^c Negative binomial regression model stratified by collection cycle and year, relating count of potential vectors per household collection site with log (trap days) as offset and with city as a predictor. * Ref. indicates the city used for comparisons. July Tucson 2013 missing due to differing RNA extraction methods used for mosquito samples during that collection period.