

SUPPLEMENTARY MATERIAL

Table S1. Multiple comparisons between the number of outbreaks by Health Macroregion and Year.

Health macro-regions		P value
Foz do Rio Itajaí	Grande Florianópolis	0.976
	Grande Oeste	1.000
	Meio Oeste and Serra Catarinense	0.024
	Planalto Norte and Nordeste	1.000
	Sul	0.019
	Vale do Itajaí	0.503
Grande Florianópolis	Grande Oeste	0.986
	Meio Oeste and Serra Catarinense	0.098
	Planalto Norte and Nordeste	0.988
	Sul	0.093
	Vale do Itajaí	0.891
Grande Oeste	Meio Oeste and Serra Catarinense	0.034
	Planalto Norte and Nordeste	1.000
	Sul	0.049
	Vale do Itajaí	0.425
Meio Oeste and Serra Catarinense	Planalto Norte and Nordeste	0.059
	Sul	0.999
	Vale do Itajaí	0.639
Planalto Norte and Nordeste	Sul	0.068
	Vale do Itajaí	0.583
Sul	Vale do Itajaí	0.920
Years		P value
2013	2014	0.991
	2015	0.132
	2016	0.132
	2017	0.081
	2018	0.014

Table S1. Continuation.

	2019	0.01
	2020	0.01
	2021	0.003
	2022	0.002
	2023	0.002
2014	2015	0.468
	2016	0.501
	2017	0.374
	2018	0.076
	2019	0.024
	2020	0.05
	2021	0.018
	2022	0.021
	2023	0.011
2015	2016	1.000
	2017	1.000
	2018	0.915
	2019	0.289
	2020	0.289
	2021	0.157
	2022	0.098
	2023	0.076
2016	2017	1.000
	2018	0.93
	2019	0.534
	2020	0.436
	2021	0.140
	2022	0.140
	2023	0.086
2017	2018	0.978

Table S1. Continuation.

	2019	0.666
	2020	0.666
	2021	0.316
	2022	0.216
	2023	0.195
2018	2019	0.997
	2020	0.988
	2021	0.601
	2022	0.634
	2023	0.634
2019	2020	1.000
	2021	0.988
	2022	0.995
	2023	0.988
2020	2021	0.993
	2022	0.997
	2023	0.991
2021	2022	1.000
	2023	1.000
2022	2023	1.000

Table SII. DSCF comparisons between the number of positives in the property and storage categories. TRAP = trap; A1 = elevated water tank connected to the public network and/or private supply system; A2 = Ground-level storage tanks for domestic storage; B = small mobile storage tanks. C = fixed storage tanks; D1 = tires and other rolling stock; D2 = garbage, scrap and debris; E = natural deposits.

Properties		P value
Commerce	Others	0.01
	Strategic Point	0.001
	Residence	0.998
	Waste land	< .001
Others	Strategic Point	0.999
	Residence	0.018
	Waste land	< .001
Strategic Point	Residence	0.002
	Waste land	< .001
Residence	Waste land	< .001
Breeding sites		P value
A1	A2	< .001
	TRAP	< .001
	B	< .001
	C	< .001
	D1	< .001
	D2	< .001
	E	< .001
A2	TRAP	< .001
	B	0.005
	C	1.000
	D1	0.340
	D2	0.009
	E	0.637
TRAP	B	< .001
	C	< .001
	D1	< .001
	D2	< .001
	E	< .001
B	C	0.008
	D1	0.523
	D2	1.000
	E	< .001
C	D1	0.376
	D2	0.012
	E	0.565
D1	D2	0.534
	E	0.003
D2	E	< .001

Table SIII. Number of immatures collected by year, health macro-region and species in Santa Catarina between 2013 and 2023.

Health macro-region	Year	Samples of <i>Ae. aegypti</i> (Aquatic or egg forms)	Samples of <i>Ae. albopictus</i> (Aquatic or egg forms)
Foz do Rio Itajaí	2013	635	0
	2014	5360	78
	2015	21172	2981
	2016	16647	1642
	2017	39503	2238
	2018	53328	2637
	2019	97895	6880
	2020	87276	3152
	2021	102321	5297
	2022	106236	3192
	2023	89410	3501
	Total	619783	31598
Grande Florianópolis	2013	920	0
	2014	1220	42
	2015	2538	793
	2016	3350	1235
	2017	4604	2439
	2018	10173	1477
	2019	30606	3333
	2020	63240	3271
	2021	118714	4959
	2022	117042	3937
	2023	122775	4967
	Total	475182	26453
Grande Oeste	2013	13395	0
	2014	91987	3
	2015	42624	2994
	2016	40954	4160
	2017	62790	2376
	2018	86782	4012
	2019	145883	3201
	2020	112620	1109
	2021	125536	842
	2022	91580	385

Table SIII. Continuation.

	2023	121720	540
	Total	935871	19622
Meio Oeste and Serra Catarinense	2013	305	0
	2014	358	0
	2015	471	158
	2016	621	279
	2017	511	234
	2018	1973	591
	2019	3305	583
	2020	7242	300
	2021	27467	907
	2022	26895	2616
	2023	35775	2117
	Total	104923	7785
Planalto Norte and Nordeste	2013	1114	0
	2014	1701	61
	2015	2097	1567
	2016	2754	839
	2017	8216	1184
	2018	9583	4084
	2019	38194	7691
	2020	98816	9278
	2021	165278	15119
	2022	242021	16169
	2023	290426	16498
	Total	860200	72490
Sul	2013	358	0
	2014	482	0
	2015	1771	290
	2016	1009	296
	2017	1135	128
	2018	2276	726
	2019	2799	547
	2020	3810	681
	2021	12416	1167
	2022	24126	1205
	2023	28463	1812
	Total	78645	6852

Table SIII. Continuation.

	2013	674	0
	2014	400	38
	2015	1020	354
	2016	982	363
	2017	1124	424
Vale do Itajaí	2018	2899	712
	2019	7452	2349
	2020	23759	3617
	2021	44025	7009
	2022	61144	12356
	2023	64601	9430
Total		208080	36652

Table SIV. Number of positive properties by year and Health macro-region in Santa Catarina between 2013 and 2023.

Health macro-region	Year	Commerce	Others	Strategic Point	Residence	Waste land
Foz do Rio Itajaí	2013	44	8	20	33	3
	2014	220	59	133	361	13
	2015	986	318	285	717	29
	2016	789	305	152	431	8
	2017	1814	756	203	902	30
	2018	2195	902	364	1442	65
	2019	3544	1203	566	3418	71
	2020	3717	1086	762	3364	93
	2021	3946	1858	958	3906	111
	2022	3771	2027	746	4015	66
	2023	2882	1576	1242	2691	87
Grande Florianópolis	2013	40	12	48	36	0
	2014	69	30	75	34	1
	2015	182	52	90	102	14
	2016	238	93	49	126	4
	2017	396	167	48	144	7
	2018	738	356	173	349	9
	2019	1365	746	1567	1289	69
	2020	3173	1760	990	2461	127
	2021	5911	3073	1276	4625	203

Table SIV. Continuation.

	2022	5184	2951	1255	5056	337
	2023	6087	2847	1170	5782	296
Grande Oeste	2013	512	142	345	776	26
	2014	933	583	1521	691	76
	2015	612	721	1008	1194	114
	2016	1097	685	728	1389	84
	2017	1709	1405	661	1960	124
	2018	1650	1873	1087	2367	127
	2019	2310	2796	1452	3350	166
	2020	2459	2356	707	2971	118
	2021	2678	3266	1320	3414	165
	2022	2198	2683	1213	3119	62
	2023	2670	3030	1439	4126	132
Meio Oeste and Serra Catarinense	2013	22	2	2	8	0
	2014	21	2	2	19	0
	2015	22	8	8	25	1
	2016	36	14	15	48	3
	2017	25	10	2	48	3
	2018	60	42	10	287	7
	2019	168	35	10	636	11
	2020	420	123	16	1292	12
	2021	811	291	48	2027	19
	2022	850	362	198	2018	53
	2023	931	551	126	1909	52
Planalto Norte and Nordeste	2013	78	7	32	26	1
	2014	116	10	43	129	15
	2015	181	22	79	65	5
	2016	187	38	24	132	9
	2017	377	94	46	293	10
	2018	620	122	75	404	12
	2019	2008	346	186	1465	21
	2020	4634	831	428	2678	52
	2021	7413	1414	347	4828	125
	2022	10981	2554	827	6065	100
	2023	12564	3306	1090	6716	68
Sul	2013	18	2	35	6	0
	2014	32	6	10	18	0

Table SIV. Continuation.

	2015	75	6	51	83	4
	2016	73	2	33	33	1
	2017	47	1	13	63	1
	2018	103	9	16	91	1
	2019	137	17	20	140	8
	2020	158	19	21	160	7
	2021	311	87	45	366	6
	2022	445	119	113	526	19
	2023	946	269	113	842	25
Vale do Itajaí	2013	3	2	71	11	0
	2014	11	2	27	9	0
	2015	28	1	67	34	2
	2016	59	7	57	20	0
	2017	72	11	75	41	2
	2018	201	16	95	115	1
	2019	549	99	82	299	10
2020	1555	332	160	1053	30	
2021	2875	454	582	1620	38	
2022	3785	713	861	1897	59	
2023	3972	902	1038	1806	66	
Total	124099	54985	30852	106992	3696	

Table SV. Number of positive deposits by year and Health macro-region in Santa Catarina between 2013 and 2023.

Health macro-region	Year	A1	A2	TRAP	B	C	D1	D2	E
Foz do Rio Itajaí	2013	1	1	76	9	3	14	3	1
	2014	3	28	363	189	72	36	54	41
	2015	18	53	1559	300	124	59	117	105
	2016	5	18	1272	121	78	64	97	30
	2017	15	56	2986	254	106	87	167	34
	2018	24	113	3763	434	170	159	267	38
	2019	31	200	6681	854	291	241	419	85
	2020	19	143	7056	776	246	221	444	117
	2021	14	176	8237	1166	248	383	450	105
	2022	19	163	8808	788	223	239	310	75
	2023	9	154	6053	936	249	401	579	97

Table SV. Continuation.

Grande Florianópolis	2013	1	5	85	13	4	11	10	7
	2014		3	123	18	6	13	37	9
	2015	10	12	242	58	15	36	62	5
	2016	3	3	337	44	29	17	67	10
	2017	3	11	611	48	19	15	42	13
	2018	8	23	1102	221	64	94	96	17
	2019	15	96	2933	869	253	255	498	117
	2020	26	225	4969	1355	607	363	629	337
	2021	30	203	9170	2838	680	769	964	434
	2022	59	274	8166	3148	854	722	1065	495
	2023	56	225	8652	4058	1033	763	1112	283
Grande Oeste	2013	26	110	1040	82	24	120	379	20
	2014	25	207	2559	242	55	180	503	33
	2015	52	390	1429	486	91	361	743	97
	2016	49	276	2400	281	107	161	654	55
	2017	40	320	3781	425	145	258	813	77
	2018	16	427	4245	708	162	372	1075	99
	2019	32	465	6373	919	213	550	1391	131
	2020	10	438	6462	500	143	254	747	57
	2021	17	609	7578	854	144	466	1124	51
	2022	48	413	6067	810	154	512	1224	47
	2023	16	325	8369	803	142	440	1259	43
Meio Oeste and Serra Catarinense	2013	0	1	26	2	0	4	1	0
	2014	0	0	24	4	0	7	9	0
	2015	4	2	40	7	2	4	5	0
	2016	0	6	57	21	6	7	14	5
	2017	2	2	57	4	2	6	11	4
	2018	3	12	279	55	9	19		

Table SV. Continuation.

Planalto Norte and Nordeste	2013	0	4	120	6	2	4	6	2
	2014	0	6	158	34	5	25	84	1
	2015	2	7	205	21	8	12	92	5
	2016	13	13	224	29	25	11	50	25
	2017	21	41	498	89	29	43	90	9
	2018	3	52	882	77	42	47	118	12
	2019	11	91	3132	197	74	162	332	27
	2020	28	135	7511	318	195	131	258	47
	2021	27	211	12125	722	303	241	421	77
	2022	15	211	18520	720	216	287	457	101
	2023	13	129	21381	971	206	326	646	72
Sul	2013	0	0	23	2	1	31	4	0
	2014	0	0	43	7	0	9	6	1
	2015	1	3	111	5	3	24	66	6
	2016	1	0	82	9	1	16	28	5
	2017	0	0	90	10	1	5	16	3
	2018	1	4	158	6	4	23	18	6
	2019	1	3	195	21	8	37	50	7
	2020	1	7	239	47	8	25	32	6
	2021	0	3	563	90	19	69	51	20
	2022	1	16	715	179	31	147	97	36
	2023	3	31	1615	234	47	93	131	41
Vale do Itajaí	2013	0	0	83	0	0	0	4	0
	2014	0	0	41	2	2	4	0	0
	2015	0	0	119	4	0	4	5	0
	2016	0	2	121	5	3	5	7	0
	2017	0	3	155	9	6	8	20	0
	2018	1	8	366	10	3	15	18	7
	2019	3	13	820	76	24	27	58	18
	2020	5	88	2144	325	20			