

Experiment	Circuit	Weeks	Treatment	Ratio	SE	p.value
S-2013	C1	01-04		1.52	0.31	0.0395
S-2013	C2	03-07	Exper. spray	0.26	0.07	4.16e-07
S-2013	C3	09-12		0.41	0.09	2.19e-05
S-2013	C4	13-16		0.84	0.16	0.357
L-2014	C1	01-04		1.24	0.16	0.09
L-2014	C2	04-05	Citywide spray	0.90	0.21	0.659
L-2014	C3	05-06		0.82	0.15	0.284
L-2014	C4	07-12		0.91	0.12	0.474
L-2014	C5	15-16	Exper. spray	1.54	0.23	0.0034
L-2014	C6	17-21		0.67	0.07	0.00028
L-2014	C7	22-27		0.71	0.10	0.0132
L-2014	C8	29-33		1.91	0.24	2.72e-07
L-2014	C9	41-44		2.53	0.34	2.67e-12

Table S2. Comparison between sectors (within time): Ratio of AA/HSE in spray sector relative to buffer sector (spray/buffer). **Bold p.values:** significant difference between sectors. In both years, the spray sector starts with more adults per house, and spraying reduces AA/HSE relative to buffer sectors. As in Table S3, the effects of spraying are most pronounced in 2013. See also Fig. 4A.

Experiment	Circuit	Weeks	Treatment	Ratio	SE	p.value
S-2013	C2	03-07	Exper. spray	0.17	0.05	1.24e-09
S-2013	C3	09-12		0.55	0.13	0.0351
S-2013	C4	13-16		0.89	0.20	0.944
L-2014	C2	04-05	Citywide spray	0.85	0.16	0.979
L-2014	C3	05-06		0.39	0.06	4.87e-08
L-2014	C4	07-12		0.69	0.09	0.0251
L-2014	C5	15-16	Exper. spray	0.88	0.12	0.954
L-2014	C6	17-21		0.40	0.05	8.97e-14
L-2014	C7	22-27		0.67	0.09	0.0173
L-2014	C8	29-33		1.49	0.18	0.0103
L-2014	C9	41-44		1.70	0.21	0.000172

Table S3. Comparison between times (within spray sector): Ratio of AA/HSE relative to baseline (C1, spray sector only). **Bold p.values:** significant difference from baseline circuit. In both years, spraying reduces AA/HSE relative to baseline (C1). The effects of spraying are most pronounced in S-2013, but are short-lived in both years. See also Fig. 4A.