

Table S1. Results of linear mixed models and binomial generalized linear mixed models for the effect of water hardness/electrical conductivity on *Aedes aegypti* life history trait parameters. Values were compared to the control 100% ROW. ROW = reverse osmosis water, TW = tap water.

Species	Parameters	Value	SE	DF	t-value	p-value	
<i>Aedes aegypti</i>	Time to pupation	Intercept	5.78	0.22	12	26.04	<0.001
		80%ROW+20%TW	-0.03	0.05	12	-0.50	0.63
		50%ROW+50%TW	0.06	0.05	12	1.18	0.26
		20%ROW+80%TW	0.04	0.05	12	0.77	0.45
		100%TW	0.14	0.05	12	2.66	0.02
	Male body size	Intercept	2265.56	12.17	92	186.19	0.00
		80%ROW+20%TW	-4.77	17.21	92	-0.28	0.78
		50%ROW+50%TW	-26.88	17.21	92	-1.56	0.12
		20%ROW+80%TW	-10.47	17.21	92	-0.61	0.54
		100%TW	7.03	17.21	92	0.41	0.68
	Female body size	Intercept	2963.92	16.52	92	179.39	0.00
		80%ROW+20%TW	14.06	23.37	92	0.60	0.54
		50%ROW+50%TW	-14.57	23.37	92	-0.62	0.53
		20%ROW+80%TW	-50.27	23.37	92	-2.15	0.03
		100%TW	-51.22	23.37	92	-2.19	0.03
		Estimate	SE		z-value	p-value	
Pupation rate	Intercept	0.90	0.36		2.52	0.01	
	80%ROW+20%TW	0.19	0.47		0.40	0.69	
	50%ROW+50%TW	-1.42	0.47		-3.01	0.003	
	20%ROW+80%TW	-2.12	0.47		-4.48	7.32e-6	
	100%TW	-1.24	0.47		-2.62	0.01	
Emergence rate	Intercept	3.95	0.26		15.14	<2e-16	
	80%ROW+20%TW	0.89	0.42		2.09	0.04	
	50%ROW+50%TW	0.26	0.42		0.61	0.54	
	20%ROW+80%TW	0.91	0.63		1.43	0.15	
	100%TW	0.39	0.42		0.93	0.35	
Adult production rate	Intercept	0.62	0.11		5.59	2.33e-08	
	80%ROW+20%TW	0.27	0.08		3.33	0.0008	
	50%ROW+50%TW	-1.12	0.08		-13.94	< 2e-16	
	20%ROW+80%TW	-1.77	0.08		-20.91	< 2e-16	
	100%TW	-0.89	0.08		-11.23	< 2e-16	

Table S2. Results of linear mixed models and binomial generalized linear mixed models for the effect of water hardness/electrical conductivity on *Aedes albopictus* life history trait parameters. Values were compared to the control 100% ROW. ROW = reverse osmosis water, TW = tap water.

Species	Parameters	Value	SE	DF	t-value	p-value	
<i>Aedes albopictus</i>	Time to pupation	Intercept	6.54	0.07	12	95.15	<0.0001
		80%ROW+20%TW	-0.13	0.08	12	-1.57	0.14
		50%ROW+50%TW	0.15	0.08	12	1.83	0.09
		20%ROW+80%TW	0.21	0.08	12	2.65	0.02
		100%TW	0.41	0.08	12	5.14	0.0002
	Male body size	Intercept	2292.63	14.57	92	157.31	0.00
		80%ROW+20%TW	9.31	20.61	92	0.45	0.65
		50%ROW+50%TW	16.06	20.61	92	0.78	0.44
		20%ROW+80%TW	21.33	20.61	92	1.03	0.30
		100%TW	22.96	20.61	92	1.11	0.27
	Female body size	Intercept	2908.22	20.78	92	139.94	0.00
		80%ROW+20%TW	-27.63	29.39	92	-0.94	0.35
		50%ROW+50%TW	-60.93	29.39	92	-2.07	0.04
		20%ROW+80%TW	-21.75	29.39	92	-0.74	0.46
		100%TW	-79.79	29.39	92	-2.72	0.008
			Estimate	SE		z-value	p-value
	Pupation rate	Intercept	1.05	0.29		3.50	<0.001
		80%ROW+20%TW	-0.64	0.42		-1.49	0.14
		50%ROW+50%TW	-1.15	0.43		-2.70	0.01
		20%ROW+80%TW	-1.69	0.43		-3.95	7.71e-05
100%TW		-1.85	0.43		-4.33	1.50e-05	
Emergence rate	Intercept	4.14	0.21		19.28	<2e-16	
	80%ROW+20%TW	0.17	0.36		0.48	0.63	
	50%ROW+50%TW	-0.17	0.34		-0.49	0.63	
	20%ROW+80%TW	0.002	0.40		0.006	0.99	
	100%TW	-0.099	0.40		-0.25	0.80	
Adult production rate	Intercept	0.83	0.15		5.41	6.26e-08	
	80%ROW+20%TW	-0.58	0.07		-8.13	4.24e-16	
	50%ROW+50%TW	-0.97	0.07		-13.74	< 2e-16	
	20%ROW+80%TW	-1.44	0.07		-19.93	< 2e-16	
	100%TW	-1.60	0.07		-21.80	< 2e-16	