

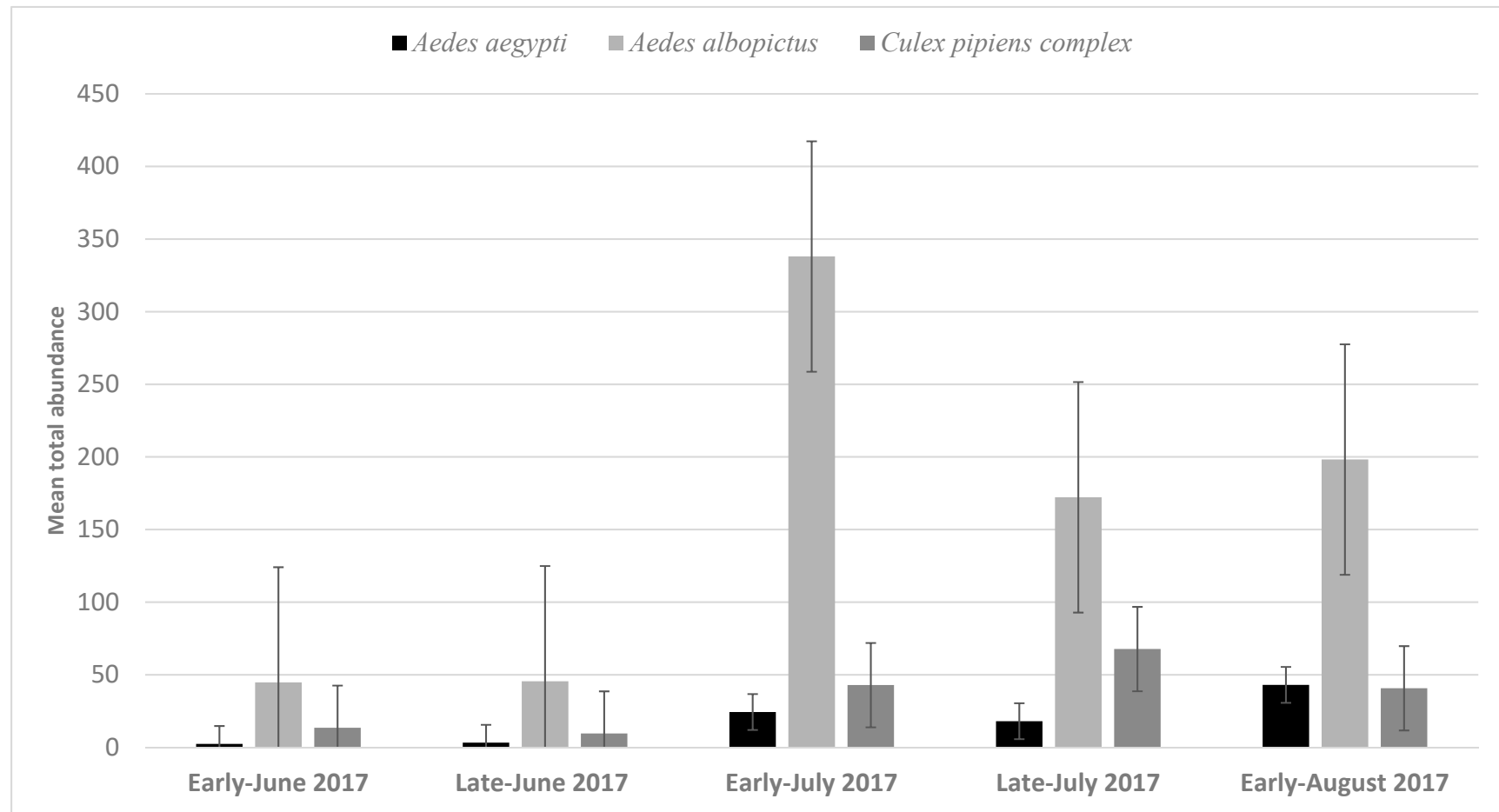


Figure S1. Mean abundance of three mosquito species in 6 Oklahoma cities by sampling week between June and August 2017.

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Table S1. Mosquito species collected in six Oklahoma cities using a) BG gravid *Aedes* traps (GAT) and b) BG-Sentinel traps between June and August 2017.

a. GAT								
Species	Eastern transect			Western transect			Total	
	Altus	Ardmore	Davis	Elk City	Mangum	Marietta		
<i>Ae. aegypti</i>	125	22	0	0	2	109	258	
<i>Ae. albopictus</i>	200	219	353	218	456	197	1643	
<i>Ae. epactius</i>	23	0	0	3	3	0	29	
<i>Ae. sollicitans</i>	0	0	1	0	0	0	1	
<i>Ae. triseriatus</i>	0	16	7	1	0	0	24	
<i>Ae. vexans</i>	0	0	0	0	0	0	0	
<i>An. pseudopunctipennis</i>	0	0	0	0	0	0	0	
<i>An. punctipennis</i>	0	0	1	0	0	0	1	
<i>An. quadrimaculatus</i>	0	0	0	0	0	0	0	
<i>Cx. erraticus</i>	1	0	1	0	0	0	2	
<i>Cx. nigripalpus</i>	0	0	0	0	0	0	0	
<i>Cx. pipiens complex</i>	12	6	4	6	4	1	33	
<i>Cx. tarsalis</i>	0	0	0	0	0	0	0	
<i>Cx. territans</i>	0	2	3	0	0	0	5	
<i>Ps. ciliata</i>	0	0	0	0	0	0	0	
<i>Ps. cyanescens</i>	1	0	0	9	1	0	11	
<i>Ps. ferox</i>	0	0	0	0	0	0	0	
<i>Tx. rutilus</i>	0	0	0	0	0	0	0	
b. BG Sentinel								
Species	Eastern transect	Western transect						Total
		Altus	Ardmore	Davis	Elk City	Mangum	Marietta	
<i>Ae. aegypti</i>	128	68	1	0	4	88	289	
<i>Ae. albopictus</i>	184	430	913	214	1259	148	3148	
<i>Ae. epactius</i>	12	16	35	8	10	9	90	
<i>Ae. sollicitans</i>	0	0	2	0	0	0	2	
<i>Ae. triseriatus</i>	1	7	18	5	0	0	31	
<i>Ae. vexans</i>	1	0	0	0	0	0	1	
<i>An. pseudopunctipennis</i>	0	0	0	1	0	0	1	
<i>An. punctipennis</i>	0	0	1	2	2	0	5	
<i>An. quadrimaculatus</i>	0	0	0	1	1	0	2	
<i>Cx. erraticus</i>	0	0	8	2	1	2	13	
<i>Cx. nigripalpus</i>	1	0	0	0	0	0	1	

<i>Cx. pipiens complex</i>	38	102	558	15	36	263	1012
<i>Cx. tarsalis</i>	0	0	0	1	3	0	4
<i>Cx. territans</i>	0	2	0	0	0	0	2
<i>Ps. ciliata</i>	0	0	2	0	0	0	2
<i>Ps. cyanescens</i>	3	0	1	0	0	0	4
<i>Ps. ferox</i>	0	1	0	0	0	0	1
<i>Tx. rutilus</i>	0	5	5	0	0	3	13

Table S2. Univariate analysis of *Aedes aegypti* presence by habitat-related variables collected in three cities in Oklahoma between June and August 2017. Results presented are significant (*) and close to significant results for purposes of pattern recognition.

	Eastern transect			Western transect					
	Ardmore			Marietta			Altus		
	R ²	DF	P	R ²	df	P	R ²	DF	P
Sampling Week	0.1743	4	0.0002*	0.2003	4	<0.0001*	0.2284	4	<0.0001*
No vegetation			NS			NS	0.0174	1	0.0436*
Low vegetation	0.0720	1	0.0007*			NS			NS
Residential sites	0.0341	1	0.0159*			NS	0.0208	1	0.0311*
Urban (vs Rural)			NS	0.0190	1	0.0404*	0.0196	1	0.0514
	Estimate (SE)	ChiSq	P	Estimate (SE)	ChiSq	P	Estimate (SE)	ChiSq	P
Tree 100			NS	-4.14+1.94	4.53	0.0333*	-2.07+1.19	3.02	0.0822
Tree 250			NS			NS	-2.44+1.42	2.96	0.0851

* = significant (Pearson (DF>1)/Fisher's Exact (DF=1)).

Table S3. Univariate analysis of *Aedes albopictus* presence by habitat-related variables collected in 6 cities in Oklahoma between June and August 2017. Results presented are significant (*) and close to significant results for purposes of pattern recognition.

Eastern transect			Davis			Ardmore			Marietta		
	R ²	DF	P		R ²	DF	P		R ²	DF	P
Sampling Week	0.1198	4	0.0002*		0.1035	4	0.0003*		0.0837	4	0.0015*
Residential sites			NS		0.0194	1	0.0442*				NS
	Estimate (SE)	ChiSq	P		Estimate (SE)	ChiSq	P		Estimate (SE)	ChiSq	P
# containers			NS				NS		1.07+0.27	15.42	<0.0001*
Tree 100			NS				NS		-6.40+2.07	9.56	0.0020*
Tree 250			NS				NS		-9.80+3.38	8.41	0.0037*
Urban 100	2.56+1.49	2.93	0.0869		1.91+0.95	4.03	0.0448*				NS
Urban 250	3.86+1.94	3.95	0.0470*		1.97+1.05	3.55	0.0597				NS
Western transect			Elk City			Mangum			Altus		
	R ²	DF	P		R ²	DF	P		R ²	DF	P
Sampling Week	0.0556	4	0.0244*		0.2569	4	<0.0001*		0.0962	4	0.0007*
No vegetation			NS		0.0377	1	0.0060*				
Medium vegetation	0.0314	1	0.0092*								
Clutter (not High)			NS		0.0268	1	0.0314*				
Residential sites	0.0252	1	0.0178*								
Dog presence	0.0136	1	0.0685								
Urban (vs Rural)	0.0200	1	0.0476*								
	Estimate (SE)	ChiSq	P		Estimate (SE)	ChiSq	P		Estimate (SE)	ChiSq	P
Tree 100			NS				NS		-2.84+1.20	5.59	0.0181*
Tree 250			NS				NS		-2.82+1.41	4.01	0.0452*

* = significant (Pearson (DF>1)/Fisher's Exact (DF=1)/ChiSquare.

Table S4. Univariate analysis of *Aedes albopictus* abundance by habitat-related variables by two different traps in 6 cities in Oklahoma between June and August 2017. Results presented are significant (*) or close to significant results for purposes of pattern recognition.

GAT	Eastern transect				Western transect							
	Davis		Ardmore		Marietta		Elk City		Mangum		Altus	
	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F
Sampling Week	3.47	0.013*	7.38	0.0001*	2.28	0.072	1.50	NS	13.75	<0.0001*	13.14	<0.0001*
High vegetation		NS	5.59	0.0221*		NS	4.33	0.0420*		NS		NS
Tree 100		NS	5.23	0.0265*	6.09	0.0165*	3.79	0.0564	3.31	0.0728		NS
Tree 250	3.14	0.0814	3.46	0.0690		NS	5.08	0.0281*		NS		NS
Residential sites	3.04	0.0862		NS		NS	16.39	0.0002*	3.23	0.0456*		NS
Clutter (Y/N)		NS	4.18	0.0463*		NS		NS		NS		NS
Medium clutter	5.56	0.022*		NS	9.58	0.0030*		NS		NS		NS
Dog presence		NS		NS		NS	4.18	0.0455*		NS		NS

Sentinel	Davis		Ardmore		Marietta		Elk City		Mangum		Altus	
	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F	F Ratio	Prob > F
Sampling week		NS		NS		NS		NS	3.82	0.0142*		NS
Med vegetation		NS		NS	6.99	0.0170*	6.56	0.0175*		NS		NS
Tree 100		NS	5.98	0.0210*		NS		NS		NS	4.25	0.0533
Tree 250		NS		NS		NS	5.81	0.0244*		NS		NS
# containers		NS		NS	11.83	0.0074*	5.55	0.0349*		NS		NS
Urban 100	6.61	0.0148*	4.82	0.0365*		NS		NS		NS		NS
Urban 250	3.94	0.0555		NS		NS		NS		NS		NS