

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK:19

Culiseta melanura Monitor

October 4 - 10, 2004

Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date
Green Bank (Burlington Co.)	1.0	0.2	1,815	83	3	Waterford (Camden Co.)	0.5	2.2	1,800	77	1
Corbin City (Atlantic Co.)	0.5	0.9	1,134	74	2	Centerton (Salem Co.)	2.0	1.0	3,477	111	7
Dennisville (Cape May Co.)	1.7	0.6	2,578	98	4	Turkey Swamp (Monmouth Co.)	0.6	<0.1	635	65	0

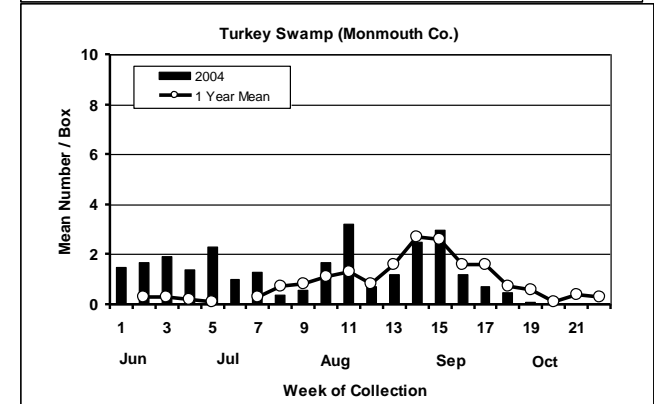
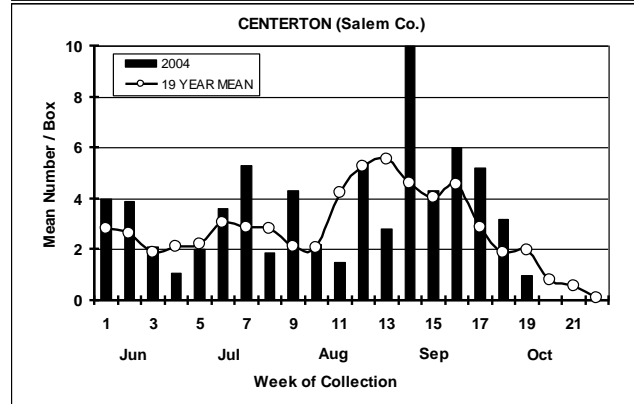
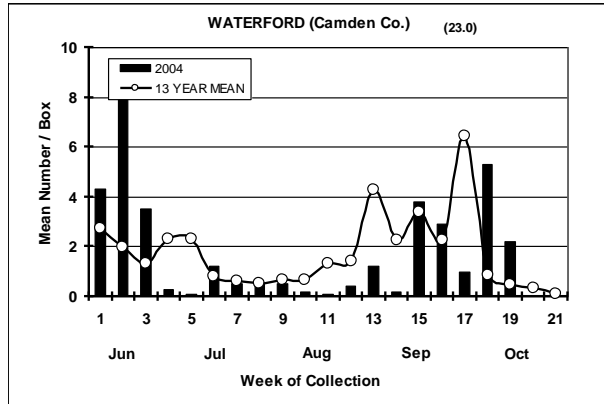
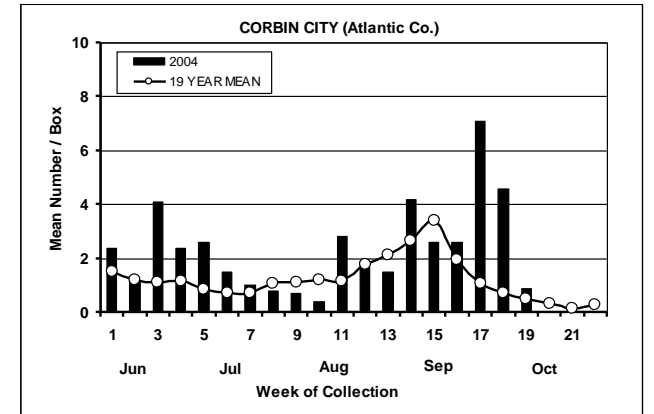
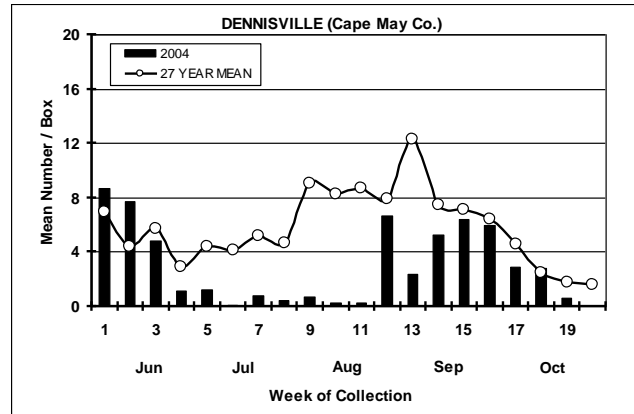
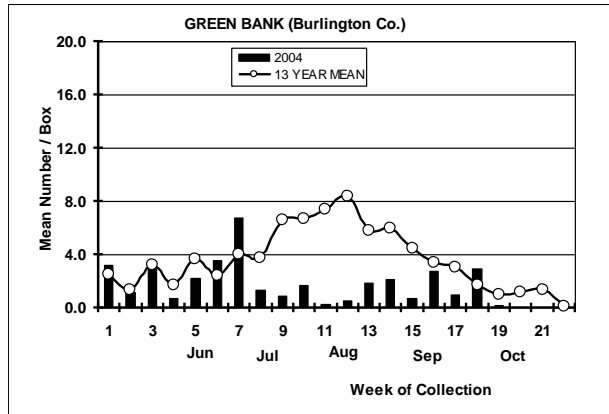
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>Cs. mel</i>	<i>Ae. vex</i>	<i>Oc. cana</i>	<i>Oc. triv</i>	<i>Oc. tris</i>	<i>Oc. soll.</i>	<i>Oc. jap</i>	<i>Ae. albo</i>	Other	TOTALS
No. Pools	359	275	196	1,889	722	378	168	85	267	118	614	164	1,105	6,340
Total Specimens	9,939	4,886	5,203	61,813	13,955	5,669	1,932	1,317	1,090	2,380	3,604	949	13,844	126,581
No. Positive Pools	43	9	1	204	6	0	0	0	0	0	0	0	0	263

Remarks: Cool night time temperatures interfere with resting box collections at this time of year and make population estimates difficult. *Culiseta melanura* that host seek during evening hours do not normally enter resting boxes until first light the next morning. When early morning temperatures are too low for flight activity, mosquitoes that were active during the night remain in a state of torpor the next day and rarely utilize artificial resting sites. Resting box data from Waterford clearly show that *Cs. melanura* are still relatively abundant but most of the sites reflect low populations because of cool temperatures the night before the collections were made. Collections of *Culex* mosquitoes for WNV testing are also declining rapidly. A high percentage of the *Culex* population are in diapause in winter hibernaculae and cool night time temperatures limit activity in those that are still seeking blood meal hosts and oviposition sites. This year's surveillance data suggest that WNV remained largely within the amplification cycle with virtually all of the positive pools from bird feeding mosquitoes this year. The NJ Department of Agriculture recently confirmed only the 6th equine case of WNV compared to the 150 cases seen in 2003, a clear reflection of the paucity of WNV in bridge vectors.

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 Summary Prepared by: Wayne J. Crans, Rutgers University

Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through October 8, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	164	949	
Aedes cinereus	12	99	
Aedes vexans	378	5669	
Anopheles barberi	7	8	
Anopheles bradleyi	45	428	
Anopheles crucians	2	4	
Anopheles punctipennis	205	1266	
Anopheles quadrimaculatus	184	4359	
Anopheles walkeri	11	171	
Coquillettidia perturbans	116	1504	
Culex erraticus	53	684	
Culex pipiens	359	9939	43
Culex restuans	275	4886	9
Culex salinarius	196	5203	1
Culex spp.	1889	61813	204
Culex territans	69	306	
Culiseta melanura	722	13955	6
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	6	13	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	168	1932	
Ochlerotatus cantator	53	983	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	13	26	
Ochlerotatus japonicus	614	3604	
Ochlerotatus mitchellae	3	4	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	118	2380	
Ochlerotatus sticticus	17	142	
Ochlerotatus stimulans	8	38	
Ochlerotatus taeniorhynchus	20	198	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	267	1090	
Ochlerotatus trivittatus	85	1317	
Orthopodomyia signifera	8	13	
Psorophora ciliata	37	279	
Psorophora columbiae	68	837	
Psorophora discolor	1	1	
Psorophora ferox	98	1864	
Psorophora howardii	4	15	
Uranotaenia sapphirina	55	568	
Grand Total	6340	126581	263

Submissions by County through October 8, 2004

County	Species	Pools	Mosquitoes	Positives
Atlantic		444	9022	10
	Aedes albopictus	22	144	
	Aedes cinereus	1	35	
	Aedes vexans	38	613	
	Anopheles bradleyi	11	38	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	5	7	
	Coquillettidia perturbans	11	158	
	Culex erraticus	8	127	
	Culex pipiens	8	192	1
	Culex restuans	15	135	
	Culex salinarius	4	41	
	Culex spp.	93	3260	9
	Culex territans	5	23	
	Culiseta melanura	94	1691	
	Ochlerotatus canadensis	17	331	
	Ochlerotatus cantator	22	791	
	Ochlerotatus japonicus	19	103	
	Ochlerotatus sollicitans	33	1065	
	Ochlerotatus taeniorhynchus	11	78	
	Ochlerotatus triseriatus	19	142	
	Ochlerotatus trivittatus	2	4	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	2	34	
Bergen		277	16149	62
	Aedes albopictus	3	49	
	Aedes cinereus	1	11	
	Aedes vexans	14	658	
	Coquillettidia perturbans	1	69	
	Culex pipiens	22	1171	7
	Culex restuans	4	37	
	Culex salinarius	27	1795	1
	Culex spp.	183	11800	54
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	3	105	
	Ochlerotatus sollicitans	10	410	
	Ochlerotatus triseriatus	6	39	

Burlington	360	5671	14
Aedes albopictus	23	112	
Aedes cinereus	1	3	
Aedes vexans	34	842	
Anopheles barberi	1	1	
Anopheles bradleyi	1	5	
Anopheles crucians	1	3	
Anopheles punctipennis	14	57	
Anopheles quadrimaculatus	14	54	
Coquillettidia perturbans	7	49	
Culex erraticus	8	20	
Culex pipiens	13	607	3
Culex restuans	4	190	1
Culex salinarius	4	8	
Culex spp.	39	1048	6
Culex territans	6	15	
Culiseta melanura	100	2070	4
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	5	20	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	27	73	
Ochlerotatus mitchellae	3	4	
Ochlerotatus sollicitans	6	106	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	11	44	
Ochlerotatus trivittatus	4	19	
Orthopodomyia signifera	1	2	
Psorophora ciliata	5	26	
Psorophora columbiae	9	201	
Psorophora ferox	6	18	
Psorophora howardii	1	7	
Uranotaenia sapphirina	3	21	

Camden	274	2844	1
Aedes albopictus	16	76	
Aedes cinereus	1	1	
Aedes vexans	12	77	
Anopheles barberi	1	1	
Anopheles bradleyi	5	17	
Anopheles punctipennis	22	64	
Anopheles quadrimaculatus	14	40	
Coquillettidia perturbans	8	26	
Culex erraticus	2	2	
Culex pipiens	11	100	
Culex restuans	8	55	
Culex salinarius	1	1	
Culex spp.	19	208	1
Culex territans	7	27	
Culiseta melanura	94	1885	
Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	7	17	
Ochlerotatus japonicus	16	46	
Ochlerotatus triseriatus	8	12	
Ochlerotatus trivittatus	3	3	
Orthopodomyia signifera	1	2	
Psorophora columbiae	1	1	
Psorophora ferox	10	111	
Uranotaenia sapphirina	6	71	
Cape May	498	10164	6
Aedes albopictus	21	88	
Aedes vexans	2	10	
Anopheles bradleyi	12	325	
Anopheles punctipennis	6	31	
Anopheles quadrimaculatus	60	3308	
Coquillettidia perturbans	6	120	
Culex erraticus	11	305	
Culex pipiens	108	1642	2
Culex restuans	65	459	2
Culex salinarius	24	300	
Culex territans	12	80	
Culiseta melanura	136	3241	2
Ochlerotatus cantator	4	17	
Ochlerotatus japonicus	16	51	
Ochlerotatus sollicitans	8	83	
Ochlerotatus taeniorhynchus	4	95	
Ochlerotatus triseriatus	3	9	

Cumberland	349	2815	2
Aedes albopictus	1	1	
Aedes vexans	65	460	
Anopheles bradleyi	4	8	
Anopheles punctipennis	13	26	
Anopheles quadrimaculatus	3	3	
Coquillettidia perturbans	4	4	
Culex erraticus	3	3	
Culex pipiens	25	719	2
Culex restuans	19	154	
Culex salinarius	29	796	
Culex spp.	19	49	
Culiseta melanura	15	22	
Ochlerotatus canadensis	67	317	
Ochlerotatus cantator	13	17	
Ochlerotatus grossbecki	7	8	
Ochlerotatus japonicus	19	54	
Ochlerotatus sollicitans	13	28	
Ochlerotatus triseriatus	8	11	
Ochlerotatus trivittatus	2	2	
Psorophora ciliata	2	6	
Psorophora columbiae	17	126	
Uranotaenia sapphirina	1	1	
Essex	205	2807	1
Aedes albopictus	7	24	
Aedes vexans	17	144	
Anopheles punctipennis	1	1	
Anopheles quadrimaculatus	2	2	
Coquillettidia perturbans	10	77	
Culex pipiens	1	4	
Culex spp.	94	1597	1
Ochlerotatus abserratus	1	4	
Ochlerotatus canadensis	1	4	
Ochlerotatus japonicus	19	79	
Ochlerotatus sticticus	9	66	
Ochlerotatus triseriatus	9	23	
Ochlerotatus trivittatus	5	98	
Psorophora ferox	29	684	
Gloucester	327	6442	38
Aedes albopictus	20	113	
Aedes vexans	14	103	
Anopheles bradleyi	1	1	
Anopheles crucians	1	1	
Anopheles punctipennis	9	26	
Anopheles quadrimaculatus	3	5	

	Coquillettidia perturbans	1	1	
	Culex pipiens	13	537	3
	Culex restuans	8	126	1
	Culex salinarius	7	87	
	Culex spp.	175	5103	34
	Culex territans	1	1	
	Culiseta melanura	8	101	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus japonicus	40	144	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	12	28	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	
	Uranotaenia sapphirina	2	25	
Hudson		187	5148	32
	Culex spp.	187	5148	32
Hunterdon		228	10156	17
	Aedes vexans	2	87	
	Anopheles punctipennis	2	19	
	Anopheles quadrimaculatus	1	16	
	Culex spp.	209	9795	17
	Ochlerotatus japonicus	6	35	
	Ochlerotatus trivittatus	3	150	
	Psorophora ciliata	3	31	
	Psorophora columbiae	1	8	
	Psorophora ferox	1	15	
Mercer		343	8203	33
	Aedes albopictus	8	18	
	Aedes cinereus	2	22	
	Aedes vexans	19	410	
	Anopheles punctipennis	12	181	
	Anopheles quadrimaculatus	7	49	
	Coquillettidia perturbans	7	181	
	Culex erraticus	2	4	
	Culex pipiens	70	2350	12
	Culex restuans	50	939	2
	Culex salinarius	8	68	
	Culex spp.	47	2302	19
	Culex territans	7	17	
	Culiseta melanura	13	148	
	Ochlerotatus atropalpus	1	8	
	Ochlerotatus canadensis	10	458	
	Ochlerotatus excrucians	2	3	
	Ochlerotatus japonicus	36	153	

	Ochlerotatus sticticus	1	40	
	Ochlerotatus triseriatus	14	38	
	Ochlerotatus trivittatus	4	92	
	Orthopodomyia signifera	1	1	
	Psorophora ciliata	1	8	
	Psorophora columbiae	2	24	
	Psorophora ferox	8	385	
	Psorophora howardii	2	7	
	Uranotaenia sapphirina	9	297	
Middlesex		57	803	0
	Aedes albopictus	2	2	
	Aedes vexans	4	35	
	Anopheles punctipennis	4	7	
	Culex pipiens	7	300	
	Culex restuans	3	24	
	Culex spp.	16	338	
	Ochlerotatus japonicus	5	21	
	Ochlerotatus sollicitans	4	50	
	Ochlerotatus triseriatus	6	9	
	Ochlerotatus trivittatus	3	14	
	Orthopodomyia signifera	1	1	
	Psorophora columbiae	2	2	
Monmouth		592	7626	11
	Aedes albopictus	5	10	
	Aedes vexans	42	595	
	Anopheles barberi	3	3	
	Anopheles punctipennis	29	211	
	Anopheles quadrimaculatus	22	99	
	Coquillettidia perturbans	9	18	
	Culex erraticus	7	17	
	Culex pipiens	38	1566	10
	Culex restuans	27	713	1
	Culex salinarius	35	1686	
	Culex spp.	79	493	
	Culex territans	10	34	
	Culiseta melanura	77	617	
	Ochlerotatus atlanticus	3	8	
	Ochlerotatus canadensis	18	125	
	Ochlerotatus cantator	5	13	
	Ochlerotatus grossbecki	1	2	
	Ochlerotatus japonicus	67	416	
	Ochlerotatus sollicitans	18	283	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus taeniorhynchus	2	3	
	Ochlerotatus triseriatus	48	322	

	Ochlerotatus trivittatus	9	30	
	Orthopodomyia signifera	1	1	
	Psorophora ciliata	11	60	
	Psorophora columbiae	13	246	
	Psorophora ferox	9	40	
	Uranotaenia sapphirina	3	12	
Morris		190	6260	3
	Aedes cinereus	1	10	
	Aedes vexans	6	69	
	Anopheles punctipennis	6	15	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	5	55	
	Culex pipiens	2	6	
	Culex restuans	1	1	
	Culex spp.	99	5046	3
	Ochlerotatus canadensis	3	87	
	Ochlerotatus japonicus	36	213	
	Ochlerotatus sticticus	1	13	
	Ochlerotatus stimulans	2	5	
	Ochlerotatus triseriatus	12	34	
	Ochlerotatus trivittatus	6	271	
	Psorophora ferox	9	434	
Ocean		482	5718	8
	Aedes albopictus	30	298	
	Aedes vexans	34	662	
	Anopheles bradleyi	2	2	
	Anopheles punctipennis	20	164	
	Anopheles quadrimaculatus	11	32	
	Coquillettidia perturbans	16	303	
	Culex pipiens	20	577	3
	Culex restuans	24	688	2
	Culex salinarius	40	326	
	Culex spp.	58	687	3
	Culex territans	4	8	
	Culiseta melanura	62	679	
	Ochlerotatus atlanticus	1	2	
	Ochlerotatus canadensis	19	341	
	Ochlerotatus cantator	1	50	
	Ochlerotatus grossbecki	4	10	
	Ochlerotatus japonicus	40	163	
	Ochlerotatus sollicitans	24	353	
	Ochlerotatus sticticus	2	2	
	Ochlerotatus taeniorhynchus	2	15	
	Ochlerotatus thibaulti	1	1	
	Ochlerotatus triseriatus	23	50	

	Ochlerotatus trivittatus	4	8	
	Orthopodomyia signifera	2	2	
	Psorophora ciliata	13	144	
	Psorophora columbiae	8	33	
	Psorophora ferox	8	97	
	Psorophora howardii	1	1	
	Uranotaenia sapphirina	8	20	
Passaic		174	3289	9
	Aedes albopictus	1	1	
	Aedes vexans	2	11	
	Anopheles punctipennis	2	4	
	Culex spp.	116	2783	9
	Ochlerotatus japonicus	46	462	
	Ochlerotatus triseriatus	7	28	
Salem		391	6506	4
	Aedes albopictus	1	1	
	Aedes vexans	22	87	
	Anopheles bradleyi	9	32	
	Anopheles punctipennis	20	199	
	Anopheles quadrimaculatus	27	684	
	Anopheles walkeri	3	15	
	Coquillettidia perturbans	7	13	
	Culex erraticus	12	206	
	Culex pipiens	5	7	
	Culex restuans	16	597	
	Culex salinarius	1	1	
	Culex spp.	76	647	4
	Culex territans	12	91	
	Culiseta melanura	113	3481	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	4	37	
	Ochlerotatus japonicus	25	114	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	9	10	
	Psorophora ciliata	1	3	
	Psorophora columbiae	11	180	
	Psorophora ferox	3	3	
	Uranotaenia sapphirina	12	96	
Somerset		234	4484	6
	Aedes vexans	6	36	
	Anopheles punctipennis	5	10	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	2	6	
	Culex pipiens	6	109	

	Culex restuans	10	291	
	Culex salinarius	1	2	
	Culex spp.	119	3444	6
	Culex territans	1	1	
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	5	57	
	Ochlerotatus japonicus	46	389	
	Ochlerotatus sticticus	1	5	
	Ochlerotatus triseriatus	20	89	
	Ochlerotatus trivittatus	8	40	
	Psorophora ciliata	1	1	
	Psorophora ferox	1	2	
Sussex		394	5168	1
	Aedes cinereus	5	17	
	Aedes vexans	29	670	
	Anopheles barberi	1	1	
	Anopheles punctipennis	25	227	
	Anopheles quadrimaculatus	11	50	
	Anopheles walkeri	8	156	
	Coquillettidia perturbans	20	422	
	Culex pipiens	10	52	
	Culex restuans	20	474	
	Culex salinarius	15	92	
	Culex spp.	89	1770	1
	Culex territans	4	9	
	Culiseta melanura	8	18	
	Culiseta morsitans	1	1	
	Ochlerotatus canadensis	12	95	
	Ochlerotatus japonicus	76	558	
	Ochlerotatus stimulans	5	29	
	Ochlerotatus triseriatus	25	110	
	Ochlerotatus trivittatus	16	378	
	Psorophora columbiae	1	1	
	Psorophora ferox	2	13	
	Uranotaenia sapphirina	11	25	
Union		74	2261	5
	Aedes albopictus	4	12	
	Culex spp.	52	2153	5
	Ochlerotatus japonicus	13	90	
	Ochlerotatus triseriatus	3	4	
	Ochlerotatus trivittatus	1	1	
	Psorophora discolor	1	1	

Warren	260	5045	0
Aedes vexans	16	100	
Anopheles barberi	1	2	
Anopheles punctipennis	12	18	
Anopheles quadrimaculatus	2	8	
Coquillettidia perturbans	2	2	
Culex restuans	1	3	
Culex spp.	120	4142	
Ochlerotatus canadensis	1	75	
Ochlerotatus cantator	2	55	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	59	335	
Ochlerotatus punctor	1	4	
Ochlerotatus triseriatus	24	88	
Ochlerotatus trivittatus	15	207	
Psorophora ferox	3	5	
Grand Total	6340	126581	263