

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 15 & 16

Culiseta melanura Monitor September 8-19, 2003

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.)	6.2 / 3.6	3.1 / 1.4	2,556	95	10	Waterford (Camden Co.)	3.2 / 2.3	5.4 / 1.9	835	54	4
Corbin City (Atlantic Co.)	2.5 / 3.3	6.4 / 5.0	1013	75	0	Centerton (Salem Co.)	4.1 / 4.3	2.7 / 9.8	2,976	96	1
Dennisville (Cape May Co.)	7.3 / 6.5	3.0 / 3.6	1,319	63	0	Turkey Swamp (Monmouth Co.)	NA	2.6 / 1.6	169	41	1

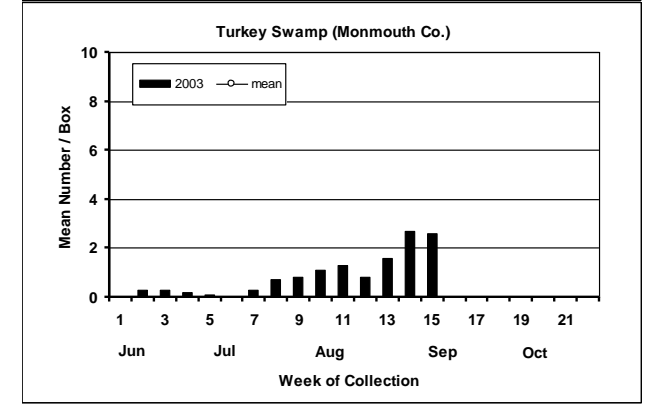
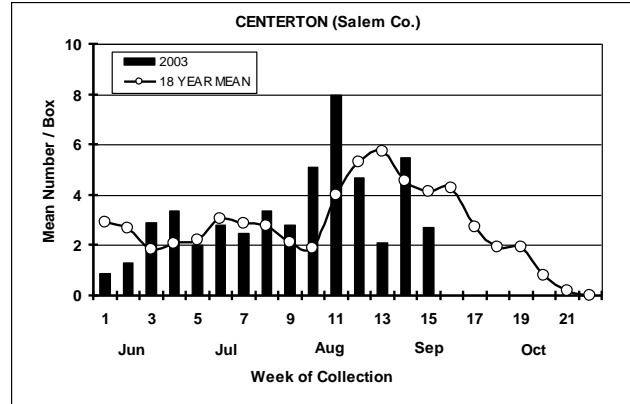
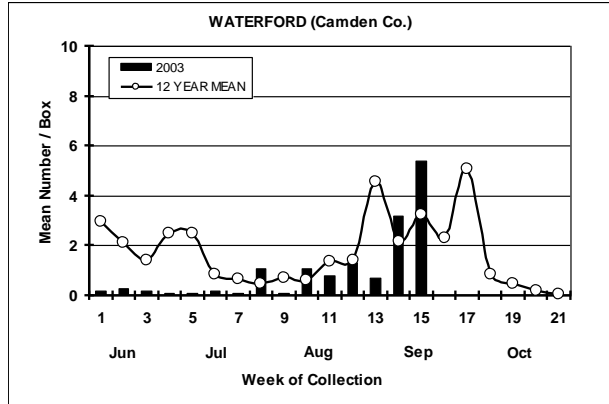
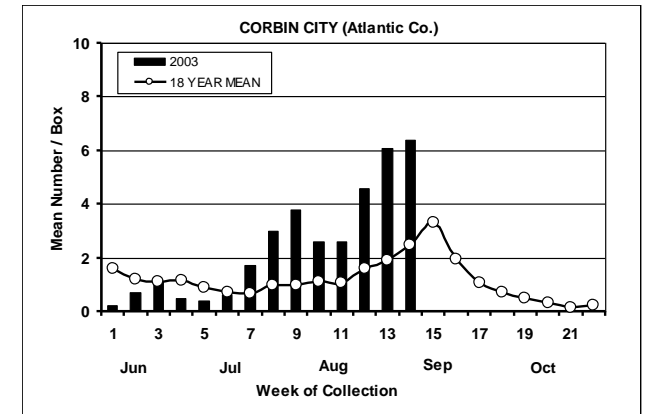
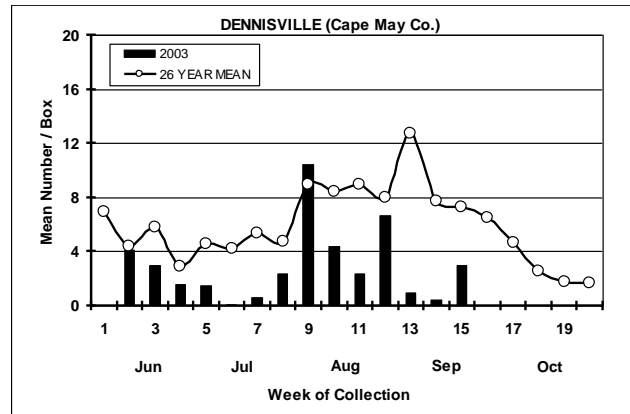
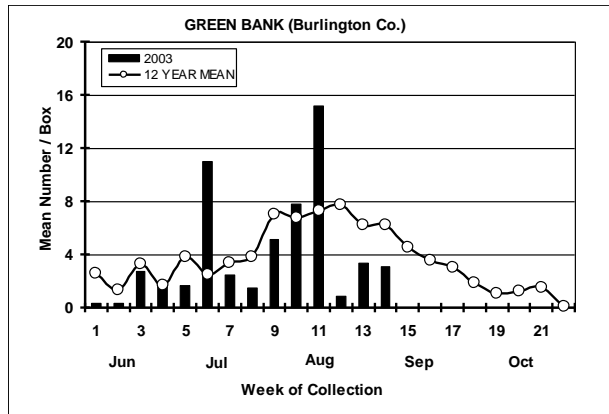
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>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	195	429	177	2,429	349	340	189	317	99	400	108	1,807	6,839
Total Specimens	4,597	11,497	5,205	71,788	7,305	7,734	4,576	2,101	2,134	2,732	592	27,561	147,822
No. Positive Pools	22	29	1	190	3	1	2	0	0	3	2	13	266

Remarks: Vector Surveillance indicates that EEE activity is widespread throughout southern New Jersey. The season began with virus activity concentrated in the Mullica River drainage of Atlantic and Burlington counties during the month of July. As the season progressed into August, EEE was detected at study sites in Camden and Salem counties. In early September, a pool of *Cs. melanura* collected from the Turkey Swamp study site in Monmouth Co. tested positive for EEE. Sentinel chicken flocks being monitored by the Cape May Co. Mosquito Commission have seroconverted to EEE at multiple locations in recent weeks showing that virus is being amplified by bird feeding mosquitoes over a wide geographic area. *Cs. melanura* populations remain high at Corbin City and Waterford but are beginning to decline at the other sites being monitored in NJ. Four equine cases of EEE have been confirmed from 3 southern counties: Atlantic (1), Camden (2) & Cumberland (1). WNV, is being transmitted to horses at an accelerated rate with 63 positives from 14 counties through the first 3 weeks of September. MIR values for *Cx. pipiens* are rising but are still below levels for this time last year. Overall infection rates for the mosquitoes tested in 2003 total 1.80 isolations per 1000 tested compared to 3.06 at this time of year in 2002.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through September 19, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	108	592	2
Ae. cinereus	21	267	
Ae. vexans	349	7305	3
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	6	6	
An. bradleyi	34	261	
An. crucians	3	6	
An. punctipennis	240	2033	
An. quadrimaculatus	184	3154	
An. walkeri	8	170	
Cq. perturbans	103	1940	1
Cs. inornata	3	4	
Cs. melanura	563	11412	9
Cx. erraticus	22	409	
Cx. mix	2429	71788	190
Cx. pipiens	195	4597	22
Cx. restuans	429	11497	29
Cx. salinarius	177	5205	1
Cx. territans	79	514	
Oc. abserratus	3	9	
Oc. atlanticus	17	27	
Oc. atropalpus	4	12	
Oc. aurifer	8	176	
Oc. canadensis	340	7734	1
Oc. cantator	111	1818	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	400	2732	3
Oc. mitchellae	1	1	
Oc. sollicitans	99	2134	
Oc. sticticus	92	1511	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	11	110	
Oc. thibaulti	6	128	
Oc. triseriatus	317	2101	
Oc. trivittatus	189	4576	2
Or. signifera	8	23	
Ps. ciliata	9	35	
Ps. columbiae	60	1040	1
Ps. ferox	96	1447	1
Ps. howardii	4	17	
Ur. sapphirina	14	91	
Grand Total	6839	147822	266

Submissions by County through September 19, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		463	13657	16
	Ae. albopictus	10	95	
	Ae. vexans	27	806	
	An. punctipennis	6	50	
	An. quadrimaculatus	6	119	
	Cq. perturbans	8	280	
	Cs. melanura	95	2191	
	Cx. erraticus	3	102	
	Cx. mix	115	4920	15
	Cx. pipiens	1	16	
	Cx. restuans	14	182	
	Cx. salinarius	13	402	
	Cx. territans	9	41	
	Oc. canadensis	45	1645	1
	Oc. cantator	29	1135	
	Oc. grossbecki	4	59	
	Oc. japonicus	9	62	
	Oc. sollicitans	19	640	
	Oc. sticticus	5	124	
	Oc. triseriatus	23	350	
	Oc. trivittatus	4	126	
	Oc. thibaulti	5	127	
	Oc. taeniorhynchus	1	32	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	6	90	
	Oc. atropalpus	1	6	
	Ps. ciliata	2	2	
Bergen		368	14885	29
	Ae. albopictus	3	29	
	Ae. cinereus	1	10	
	Ae. vexans	15	641	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	242	11612	29
	Cx. pipiens	9	152	
	Cx. restuans	10	275	
	Cx. salinarius	18	839	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	32	619	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	
	Oc. trivittatus	7	319	
	Ps. ferox	1	50	

Burlington	398	6386	8
Ae. albopictus	23	125	2
Ae. cinereus	4	4	
Ae. vexans	24	326	
An. punctipennis	22	154	
An. quadrimaculatus	8	19	
Cq. perturbans	4	53	
Cs. inornata	1	1	
Cs. melanura	99	2657	3
Cx. mix	93	1777	3
Cx. restuans	7	34	
Cx. salinarius	6	19	
Cx. territans	2	8	
Oc. canadensis	29	604	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	14	62	
Oc. sollicitans	6	220	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	12	58	
Oc. trivittatus	3	40	
Ps. columbiae	4	10	
An. barberi	1	1	
Oc. taeniorhynchus	1	24	
Or. signifera	2	2	
An. crucians	2	5	
Ps. ferox	3	45	
An. bradleyi	2	19	
Oc. mitchellae	1	1	
Oc. atropalpus	1	4	
Ur. sapphirina	1	3	
Ps. howardii	3	16	
Ps. ciliata	1	1	
Camden	236	2732	2
Ae. albopictus	10	18	
Ae. vexans	11	72	
An. punctipennis	32	595	
An. quadrimaculatus	12	28	
Cq. perturbans	10	112	
Cs. melanura	58	871	1
Cx. erraticus	1	1	
Cx. mix	31	607	
Cx. pipiens	1	2	
Cx. restuans	14	88	1
Cx. salinarius	3	31	
Cx. territans	7	72	
Oc. canadensis	7	20	
Oc. grossbecki	2	6	
Oc. japonicus	5	11	
Oc. sollicitans	1	1	
Oc. sticticus	1	1	
Oc. triseriatus	8	21	

	Oc. trivittatus	3	3	
	Ps. columbiae	3	38	
	Ps. ferox	1	1	
	An. bradleyi	7	72	
	Oc. atropalpus	1	1	
	Ur. sapphirina	5	58	
	Ps. ciliata	2	2	
Cape May		426	9378	3
	Ae. albopictus	2	4	
	Ae. vexans	2	34	
	An. punctipennis	7	18	
	An. quadrimaculatus	60	2555	
	Cq. perturbans	6	196	1
	Cs. melanura	84	1745	2
	Cx. erraticus	7	217	
	Cx. mix	170	2915	
	Cx. pipiens	2	23	
	Cx. restuans	14	367	
	Cx. salinarius	11	95	
	Cx. territans	12	114	
	Oc. canadensis	16	610	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
	Oc. japonicus	2	5	
	Oc. sollicitans	3	49	
	Oc. triseriatus	6	30	
	Oc. taeniorhynchus	1	6	
	An. bradleyi	8	63	
Cumberland		309	4117	5
	Ae. albopictus	4	16	
	Ae. cinereus	1	1	
	Ae. vexans	20	219	
	An. punctipennis	6	9	
	An. quadrimaculatus	6	9	
	Cq. perturbans	1	1	
	Cs. melanura	16	304	
	Cx. mix	40	189	
	Cx. pipiens	20	617	3
	Cx. restuans	17	348	2
	Cx. salinarius	37	1738	
	Cx. territans	4	25	
	Oc. canadensis	33	110	
	Oc. cantator	2	3	
	Oc. grossbecki	7	10	
	Oc. japonicus	3	4	
	Oc. sollicitans	13	32	
	Oc. sticticus	10	75	
	Oc. triseriatus	13	21	
	Oc. trivittatus	5	12	
	Ps. columbiae	12	246	
	Oc. taeniorhynchus	7	47	
	Ps. ferox	15	53	
	Oc. atlanticus	13	22	

	An. bradleyi	3	5	
	Oc. atropalpus	1	1	
Essex		215	2939	5
	Ae. vexans	25	558	
	An. punctipennis	3	4	
	An. quadrimaculatus	1	1	
	Cx. mix	77	1096	5
	Oc. canadensis	6	23	
	Oc. japonicus	12	35	
	Oc. sticticus	33	461	
	Oc. stimulans	8	31	
	Oc. triseriatus	10	13	
	Oc. trivittatus	26	463	
	Ps. ferox	14	254	
Gloucester		361	8196	35
	Ae. albopictus	34	88	
	Ae. vexans	8	158	
	An. punctipennis	10	19	
	An. quadrimaculatus	2	4	
	Cq. perturbans	2	3	
	Cs. melanura	9	385	2
	Cx. mix	192	6459	28
	Cx. pipiens	6	105	2
	Cx. restuans	9	260	1
	Cx. salinarius	9	344	
	Cx. territans	2	6	
	Oc. canadensis	3	23	
	Oc. excrucians	2	3	
	Oc. japonicus	38	113	1
	Oc. sticticus	2	5	
	Oc. triseriatus	18	63	
	Oc. trivittatus	3	15	
	Ps. columbiae	2	9	
	Ps. ferox	6	117	1
	An. bradleyi	2	3	
	Ur. sapphirina	1	3	
	An. atropos	1	11	
Hudson		151	2552	7
	Ae. albopictus	3	23	
	Ae. vexans	5	170	
	Cq. perturbans	4	151	
	Cx. mix	100	845	6
	Cx. pipiens	12	413	
	Cx. restuans	10	404	
	Cx. salinarius	10	488	1
	Oc. sollicitans	1	7	
	Oc. triseriatus	3	4	
	Oc. trivittatus	1	44	
	Aedes/Ochleratus sp.	2	3	

Hunterdon	230	9509	19
Ae. vexans	3	36	
An. punctipennis	6	39	
An. quadrimaculatus	1	1	
Cx. mix	185	8920	19
Oc. japonicus	12	98	
Oc. triseriatus	10	34	
Oc. trivittatus	10	337	
Ps. columbiae	1	19	
Ps. ferox	1	2	
Ps. ciliata	1	23	
Mercer	487	10804	25
Ae. albopictus	1	1	
Ae. cinereus	2	4	
Ae. vexans	30	713	
An. punctipennis	23	138	
An. quadrimaculatus	7	12	
An. walkeri	1	1	
Cq. perturbans	12	504	
Cs. inornata	1	1	
Cs. melanura	4	5	
Cx. mix	33	1158	10
Cx. pipiens	53	1532	10
Cx. restuans	148	4179	4
Cx. salinarius	17	127	
Cx. territans	3	6	
Oc. canadensis	47	1256	
Oc. cantator	1	2	
Oc. excrucians	3	7	
Oc. grossbecki	17	195	
Oc. japonicus	28	241	1
Oc. sticticus	6	11	
Oc. triseriatus	15	136	
Oc. trivittatus	6	25	
Ps. columbiae	5	8	
Or. signifera	2	3	
Ps. ferox	16	516	
Oc. atlanticus	3	3	
Ur. sapphirina	2	19	
Ps. ciliata	1	1	
Middlesex	202	2696	17
Ae. albopictus	1	1	
Ae. vexans	14	140	1
An. punctipennis	6	6	
An. quadrimaculatus	5	5	
Cq. perturbans	2	8	
Cx. mix	117	1846	15
Oc. canadensis	6	72	
Oc. cantator	2	18	
Oc. excrucians	1	2	
Oc. grossbecki	1	1	
Oc. japonicus	6	21	

	Oc. sollicitans	12	165	
	Oc. triseriatus	10	32	
	Oc. trivittatus	6	59	
	Ps. columbiae	8	289	1
	An. crucians	1	1	
	Ps. ferox	3	28	
	Ur. sapphirina	1	2	
Monmouth		615	8834	13
	Ae. albopictus	4	8	
	Ae. vexans	37	820	1
	An. punctipennis	17	142	
	An. quadrimaculatus	10	40	
	Cq. perturbans	7	18	
	Cs. melanura	49	233	
	Cx. erraticus	4	11	
	Cx. mix	179	2449	1
	Cx. pipiens	38	923	3
	Cx. restuans	42	1193	8
	Cx. salinarius	15	318	
	Cx. territans	9	42	
	Oc. abserratus	2	6	
	Oc. canadensis	36	589	
	Oc. cantator	22	90	
	Oc. excrucians	1	3	
	Oc. japonicus	41	163	
	Oc. sollicitans	24	639	
	Oc. sticticus	1	6	
	Oc. triseriatus	37	681	
	Oc. trivittatus	12	47	
	Oc. thibaulti	1	1	
	Ps. columbiae	10	297	
	An. barberi	4	4	
	Oc. taeniorhynchus	1	1	
	Or. signifera	2	2	
	Ps. ferox	7	105	
	Ur. sapphirina	1	1	
	Ps. ciliata	1	1	
	Oc. hendersoni	1	1	
Morris		213	4907	11
	Ae. cinereus	2	17	
	Ae. vexans	13	255	
	An. punctipennis	11	43	
	An. quadrimaculatus	2	6	
	An. walkeri	1	2	
	Cq. perturbans	7	217	
	Cx. mix	61	2494	9
	Cx. pipiens	9	137	
	Cx. restuans	15	418	
	Cx. salinarius	2	7	
	Cx. territans	1	3	
	Oc. aurifer	3	20	
	Oc. canadensis	11	274	
	Oc. grossbecki	2	5	
	Oc. japonicus	26	128	1

	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	21	116	
	Oc. trivittatus	19	669	1
	Ps. ferox	4	88	
Ocean		523	9560	15
	Ae. albopictus	11	171	
	Ae. vexans	36	905	
	An. punctipennis	15	136	
	An. quadrimaculatus	11	145	
	Cq. perturbans	20	104	
	Cs. inornata	1	2	
	Cs. melanura	62	639	
	Cx. mix	103	3038	2
	Cx. pipiens	9	159	3
	Cx. restuans	54	1743	10
	Cx. salinarius	22	653	
	Cx. territans	15	113	
	Oc. canadensis	34	601	
	Oc. cantator	19	249	
	Oc. grossbecki	2	3	
	Oc. japonicus	27	143	
	Oc. sollicitans	17	372	
	Oc. sticticus	2	6	
	Oc. triseriatus	37	175	
	Oc. trivittatus	6	53	
	Ps. columbiae	4	62	
	Or. signifera	1	1	
	Ps. ferox	8	73	
	Oc. atlanticus	1	2	
	An. bradleyi	4	6	
	Ur. sapphirina	1	1	
	Ps. ciliata	1	5	
Passaic		180	5533	11
	An. punctipennis	2	5	
	Cx. mix	106	4486	11
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	31	364	
	Oc. sticticus	3	8	
	Oc. triseriatus	11	53	
	Oc. trivittatus	1	4	
	Ps. ferox	1	1	
Salem		445	7091	4
	Ae. albopictus	2	13	
	Ae. vexans	20	98	
	An. punctipennis	14	93	
	An. quadrimaculatus	27	128	
	Cq. perturbans	7	9	
	Cs. melanura	83	2357	1

	Cx. erraticus	7	78	
	Cx. mix	157	3031	3
	Cx. pipiens	16	320	
	Cx. restuans	16	196	
	Cx. salinarius	3	3	
	Cx. territans	10	55	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. japonicus	11	29	
	Oc. sollicitans	2	2	
	Oc. triseriatus	11	15	
	Oc. trivittatus	1	2	
	Ps. columbiae	10	61	
	Ps. ferox	5	13	
	An. bradleyi	2	3	
Somerset		188	3972	15
	Ae. cinereus	1	15	
	Ae. vexans	6	50	
	An. punctipennis	7	39	
	An. quadrimaculatus	3	4	
	Cx. mix	105	3014	11
	Cx. pipiens	4	84	1
	Cx. restuans	10	315	3
	Cx. salinarius	2	55	
	Cx. territans	2	14	
	Oc. canadensis	2	4	
	Oc. japonicus	25	120	
	Oc. triseriatus	7	9	
	Oc. trivittatus	10	236	
	Ps. ferox	3	12	
	Ps. howardii	1	1	
Sussex		420	10095	9
	Ae. cinereus	5	25	
	Ae. vexans	25	1006	
	An. punctipennis	26	286	
	An. quadrimaculatus	9	45	
	An. walkeri	1	20	
	Cq. perturbans	12	283	
	Cs. melanura	4	25	
	Cx. mix	148	4406	9
	Cx. pipiens	5	62	
	Cx. restuans	20	743	
	Cx. salinarius	4	79	
	Cx. territans	2	13	
	Oc. abserratus	1	3	
	Oc. aurifer	1	50	
	Oc. canadensis	14	292	
	Oc. excrucians	3	58	
	Oc. japonicus	44	402	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	31	116	
	Oc. trivittatus	30	1233	

	Ps. columbiae	1	1	
	An. barberi	1	1	
	Ps. ferox	3	12	
	Ur. sapphirina	2	4	
Union		98	2688	8
	Ae. vexans	2	7	
	An. punctipennis	1	1	
	Cx. mix	38	1520	8
	Cx. pipiens	4	19	
	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	9	30	
	Oc. sollicitans	1	7	
	Oc. sticticus	2	4	
	Oc. triseriatus	3	4	
	Oc. trivittatus	3	7	
	Ps. ferox	1	1	
Warren		311	7291	9
	Ae. cinereus	5	191	
	Ae. vexans	26	291	1
	An. punctipennis	24	248	
	An. quadrimaculatus	10	29	
	An. walkeri	5	147	
	Cq. perturbans	1	1	
	Cx. mix	137	5006	6
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	5	71	
	Oc. cantator	5	67	
	Oc. japonicus	25	82	
	Oc. sticticus	3	14	
	Oc. stimulans	7	63	1
	Oc. triseriatus	15	35	
	Oc. trivittatus	33	882	1
	Ps. ferox	2	36	
Grand Total		6839	147822	266