

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 17

Culiseta melanura Monitor September 22 - 26, 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.)	3.1	2.0	2,640	99	11	Waterford (Camden Co.)	5.1	23.0	1,984	79	6
Corbin City (Atlantic Co.)	2.0	2.1	1,065	79	0	Centerton (Salem Co.)	2.7	5.5	3,223	103	1
Dennisville (Cape May Co.)	4.6	1.9	1,347	67	0	Turkey Swamp (Monmouth Co.)	NA	1.6	188	45	3

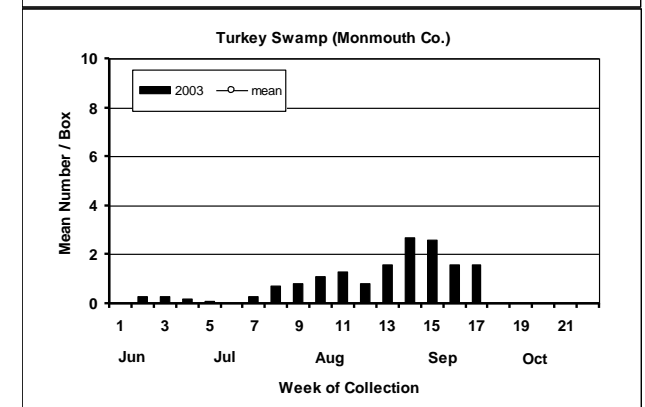
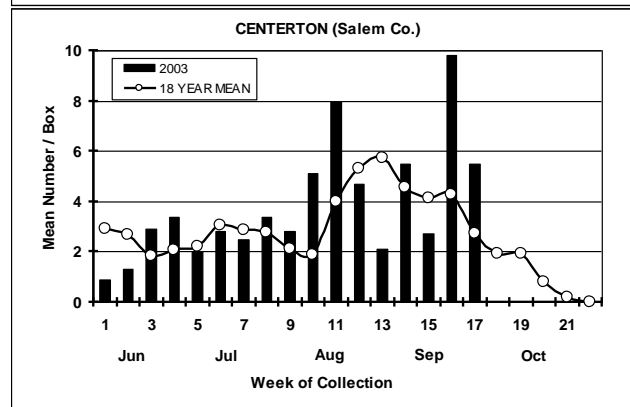
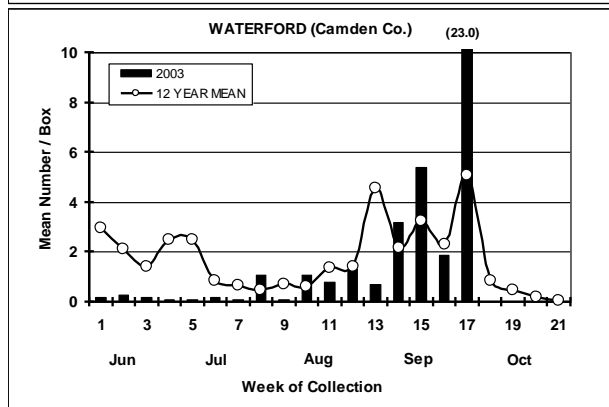
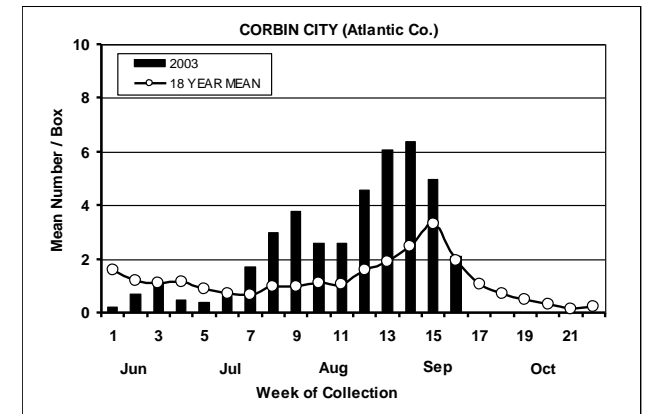
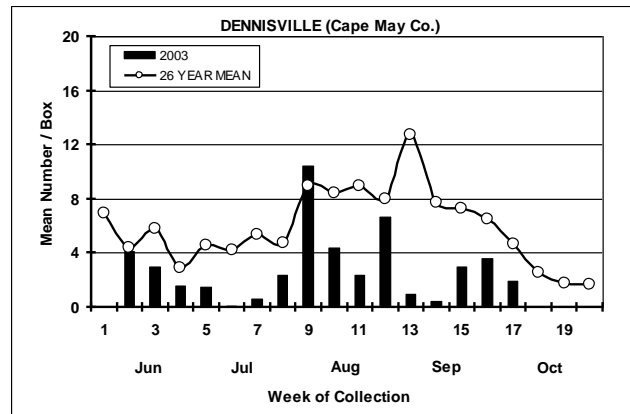
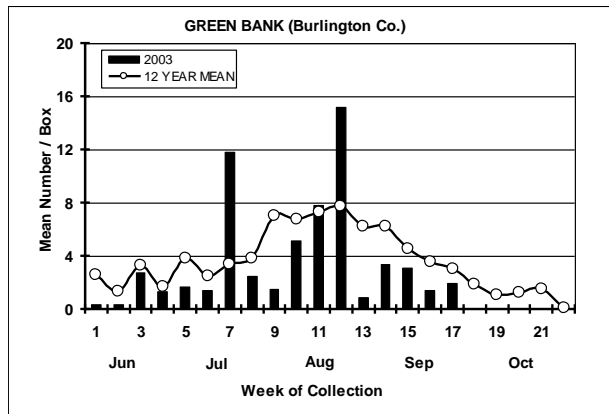
Collections submitted to PHEL for West Nile Virus testing

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	206	438	188	2,539	369	344	195	335	11	435	120	2,004	7,184
Total Specimens	4,691	11,580	5,286	74,456	7,496	7,769	4,828	2,151	2,285	2,879	629	29,153	153,203
No. Positive Pools	22	30	1	199	3	1	2	0	0	3	2	16	279

Remarks: EEE continues to be a presence in southern NJ with 21 virus isolations to this point in time. Virus activity is widespread throughout the southern half of the state with virus isolations documented from 4 of our 6 study sites. One additional equine case was reported in the past week bringing the NJ total to 5: Atlantic (1), Burlington (1), Camden (2) and Cumberland (1). EEE has also been reported from NY and CT showing that the 2003 epizootic first reported from Florida has now progressed as far north as New England. *Culiseta melanura* populations are beginning to drop in most areas but remain high at Centerton and Waterford. Last week's Waterford collection averaged 23.0 *Cs. melanura* per resting box, the second highest collection on record in that site's 12 year history. WNV activity continues with 17 confirmed human cases and 99 equine cases. Minimum infection rates (isolations per thousand tested) for bird feeders are: *Cx. pipiens* (4.69), *Cx. restuans* (2.60), *Cs. melanura* (0.95). MFIR values for the primary bridge vectors are: *Oc. canadensis* (0.12), *Cx. salinarius* (0.19), *Ae. vexans* (0.40), *Oc. trivittatus* (0.41), *Oc. japonicus* (1.04), *Ae. albopictus* (3.17).

New Jersey Agricultural Experiment Station Publication No. PT-40500-17-03 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University

Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through September 26, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	120	629	2
Ae. cinereus	21	267	
Ae. vexans	369	7496	3
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	6	6	
An. bradleyi	38	305	
An. crucians	3	6	
An. punctipennis	251	2057	
An. quadrimaculatus	193	3317	
An. walkeri	8	170	
Cq. perturbans	104	1950	1
Cs. inornata	3	4	
Cs. melanura	610	12611	12
Cx. erraticus	23	410	
Cx. mix	2539	74456	199
Cx. pipiens	206	4691	22
Cx. restuans	439	11582	30
Cx. salinarius	188	5286	1
Cx. territans	84	561	
Oc. abserratus	3	9	
Oc. atlanticus	17	27	
Oc. atropalpus	4	12	
Oc. aurifer	8	176	
Oc. canadensis	344	7769	1
Oc. cantator	111	1818	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	435	2879	3
Oc. mitchellae	1	1	
Oc. sollicitans	111	2285	
Oc. sticticus	92	1511	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	12	128	
Oc. thibaulti	6	128	
Oc. triseriatus	335	2151	
Oc. trivittatus	195	4828	2
Or. signifera	8	23	
Ps. ciliata	10	36	
Ps. columbiae	66	1061	1
Ps. ferox	97	1448	1
Ps. howardii	4	17	
Ur. sapphirina	20	141	
Wy. smithii	3	11	
Grand Total	7184	153203	279

Submissions by County through September 26, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		483	13969	19
	Ae. albopictus	12	112	
	Ae. vexans	28	811	
	An. punctipennis	6	50	
	An. quadrimaculatus	6	119	
	Cq. perturbans	8	280	
	Cs. melanura	101	2323	
	Cx. erraticus	3	102	
	Cx. mix	118	4950	18
	Cx. pipiens	1	16	
	Cx. restuans	14	182	
	Cx. salinarius	13	402	
	Cx. territans	9	41	
	Oc. canadensis	46	1674	1
	Oc. cantator	29	1135	
	Oc. grossbecki	4	59	
	Oc. japonicus	10	66	
	Oc. sollicitans	21	702	
	Oc. sticticus	5	124	
	Oc. triseriatus	25	364	
	Oc. trivittatus	4	126	
	Oc. thibaulti	5	127	
	Oc. taeniorhynchus	2	50	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	6	90	
	Oc. atropalpus	1	6	
	Ps. ciliata	3	3	
Bergen		383	15557	29
	Ae. albopictus	3	29	
	Ae. cinereus	1	10	
	Ae. vexans	15	641	
	An. punctipennis	2	8	
	An. quadrimaculatus	5	52	
	Cx. mix	256	12236	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		417	6602	8
	Ae. albopictus	25	130	2
	Ae. cinereus	4	4	
	Ae. vexans	27	356	

An. punctipennis	23	160	
An. quadrimaculatus	8	19	
Cq. perturbans	4	53	
Cs. inornata	1	1	
Cs. melanura	103	2715	3
Cx. erraticus	1	1	
Cx. mix	97	1883	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	16	69	
Oc. sollicitans	7	221	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	13	60	
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	265	3005	3
Ae. albopictus	12	22	
Ae. vexans	14	98	
An. punctipennis	33	599	
An. quadrimaculatus	13	30	
Cq. perturbans	10	112	
Cs. melanura	65	1017	2
Cx. erraticus	1	1	
Cx. mix	33	635	
Cx. pipiens	4	19	
Cx. restuans	16	113	1
Cx. salinarius	4	33	
Cx. territans	7	72	
Oc. canadensis	9	24	
Oc. grossbecki	2	6	
Oc. japonicus	7	21	
Oc. sollicitans	1	1	
Oc. sticticus	1	1	
Oc. triseriatus	8	21	
Oc. trivittatus	4	5	
Ps. columbiae	3	38	
Ps. ferox	1	1	
An. bradleyi	7	72	

	Oc. atropalpus	1	1	
	Ur. sapphirina	7	61	
	Ps. ciliata	2	2	
Cape May		451	9738	4
	Ae. albopictus	2	4	
	Ae. vexans	3	39	
	An. punctipennis	7	18	
	An. quadrimaculatus	62	2652	
	Cq. perturbans	6	196	1
	Cs. melanura	91	1851	2
	Cx. erraticus	7	217	
	Cx. mix	174	2974	
	Cx. pipiens	2	23	
	Cx. restuans	15	369	1
	Cx. salinarius	17	136	
	Cx. territans	13	122	
	Oc. canadensis	16	610	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
	Oc. japonicus	2	5	
	Oc. sollicitans	3	49	
	Oc. triseriatus	7	33	
	Oc. taeniorhynchus	1	6	
	An. bradleyi	10	102	
Cumberland		340	4231	6
	Ae. albopictus	5	17	
	Ae. cinereus	1	1	
	Ae. vexans	22	222	
	An. punctipennis	7	11	
	An. quadrimaculatus	8	12	
	Cq. perturbans	1	1	
	Cs. melanura	19	308	1
	Cx. mix	45	202	
	Cx. pipiens	24	650	3
	Cx. restuans	18	350	2
	Cx. salinarius	39	1769	
	Cx. territans	4	25	
	Oc. canadensis	34	112	
	Oc. cantator	2	3	
	Oc. grossbecki	7	10	
	Oc. japonicus	3	4	
	Oc. sollicitans	15	35	
	Oc. sticticus	10	75	
	Oc. triseriatus	13	21	
	Oc. trivittatus	5	12	
	Ps. columbiae	14	250	
	Oc. taeniorhynchus	7	47	
	Ps. ferox	16	54	
	Oc. atlanticus	13	22	
	An. bradleyi	4	6	
	Oc. atropalpus	1	1	
	Wy. smithii	3	11	

Essex	230	3111	5
Ae. vexans	25	558	
An. punctipennis	3	4	
An. quadrimaculatus	1	1	
Cx. mix	87	1258	5
Oc. canadensis	6	23	
Oc. japonicus	17	45	
Oc. sticticus	33	461	
Oc. stimulans	8	31	
Oc. triseriatus	10	13	
Oc. trivittatus	26	463	
Ps. ferox	14	254	
Gloucester	381	8398	40
Ae. albopictus	38	95	
Ae. vexans	8	158	
An. punctipennis	12	21	
An. quadrimaculatus	2	4	
Cq. perturbans	2	3	
Cs. melanura	9	385	2
Cx. mix	199	6637	33
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	43	123	1
Oc. sticticus	2	5	
Oc. triseriatus	20	68	
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	245	9929	19
Ae. vexans	3	36	
An. punctipennis	9	42	
An. quadrimaculatus	1	1	
Cx. mix	195	9331	19

	Oc. japonicus	13	103	
	Oc. triseriatus	11	35	
	Oc. trivittatus	10	337	
	Ps. columbiae	1	19	
	Ps. ferox	1	2	
	Ps. ciliata	1	23	
Mercer		502	10944	25
	Ae. albopictus	1	1	
	Ae. cinereus	2	4	
	Ae. vexans	31	716	
	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	35	1178	10
	Cx. pipiens	56	1568	10
	Cx. restuans	151	4227	4
	Cx. salinarius	18	133	
	Cx. territans	3	6	
	Oc. canadensis	47	1256	
	Oc. cantator	1	2	
	Oc. excrucians	3	7	
	Oc. grossbecki	17	195	
	Oc. japonicus	31	256	1
	Oc. sticticus	6	11	
	Oc. triseriatus	16	137	
	Oc. trivittatus	6	25	
	Ps. columbiae	6	19	
	Or. signifera	2	3	
	Ps. ferox	16	516	
	Oc. atlanticus	3	3	
	Ur. sapphirina	2	19	
	Ps. ciliata	1	1	
Middlesex		217	2878	17
	Ae. albopictus	2	4	
	Ae. vexans	15	141	1
	An. punctipennis	6	6	
	An. quadrimaculatus	6	9	
	Cq. perturbans	2	8	
	Cx. mix	123	1954	15
	Oc. canadensis	6	72	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	21	
	Oc. sollicitans	14	184	
	Oc. triseriatus	10	32	
	Oc. trivittatus	6	59	
	Ps. columbiae	9	290	1
	An. crucians	1	1	
	Ps. ferox	3	28	
	Ur. sapphirina	4	48	

Monmouth	628	8877	14
Ae. albopictus	4	8	
Ae. vexans	37	820	1
An. punctipennis	18	144	
An. quadrimaculatus	10	40	
Cq. perturbans	7	18	
Cs. melanura	49	233	
Cx. erraticus	4	11	
Cx. mix	184	2460	2
Cx. pipiens	39	931	3
Cx. restuans	42	1193	8
Cx. salinarius	15	318	
Cx. territans	10	53	
Oc. abserratus	2	6	
Oc. canadensis	36	589	
Oc. cantator	22	90	
Oc. excrucians	1	3	
Oc. japonicus	44	172	
Oc. sollicitans	26	641	
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	222	4976	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	64	2545	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	29	141	1
Oc. sticticus	2	6	
Oc. stimulans	1	2	
Oc. triseriatus	24	121	
Oc. trivittatus	19	669	1
Ps. ferox	4	88	

Ocean	542	9837	16
Ae. albopictus	11	171	
Ae. vexans	38	929	
An. punctipennis	16	139	
An. quadrimaculatus	12	149	
Cq. perturbans	21	114	
Cs. inornata	1	2	
Cs. melanura	64	657	1
Cx. mix	107	3163	2
Cx. pipiens	9	159	3
Cx. restuans	55	1747	10
Cx. salinarius	22	653	
Cx. territans	16	128	
Oc. canadensis	34	601	
Oc. cantator	19	249	
Oc. grossbecki	2	3	
Oc. japonicus	29	149	
Oc. sollicitans	20	436	
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	5	10	
Ur. sapphirina	1	1	
Ps. ciliata	1	5	
Passaic	194	5679	11
Ae. vexans	1	1	
An. punctipennis	2	5	
Cx. mix	113	4586	11
Cx. pipiens	6	33	
Cx. restuans	16	558	
Cx. salinarius	1	1	
Oc. canadensis	2	20	
Oc. japonicus	35	406	
Oc. sticticus	3	8	
Oc. triseriatus	13	56	
Oc. trivittatus	1	4	
Ps. ferox	1	1	
Salem	485	7968	4
Ae. albopictus	2	13	
Ae. vexans	21	99	
An. punctipennis	15	95	
An. quadrimaculatus	28	133	
Cq. perturbans	7	9	
Cs. melanura	101	3092	1
Cx. erraticus	7	78	
Cx. mix	167	3140	3
Cx. pipiens	16	320	
Cx. restuans	17	198	
Cx. salinarius	4	4	

	Cx. territans	12	68	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. japonicus	12	30	
	Oc. sollicitans	2	2	
	Oc. triseriatus	12	16	
	Oc. trivittatus	1	2	
	Ps. columbiae	12	66	
	Ps. ferox	5	13	
	An. bradleyi	2	3	
	reat	1	2	
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		436	10309	9
	Ae. cinereus	5	25	
	Ae. vexans	28	1088	
	An. punctipennis	26	286	
	An. quadrimaculatus	9	45	
	An. walkeri	1	20	
	Cq. perturbans	12	283	
	Cs. melanura	4	25	
	Cx. mix	152	4457	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	47	417	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	35	131	
	Oc. trivittatus	31	1283	
	Ps. columbiae	1	1	
	An. barberi	1	1	
	Ps. ferox	3	12	
	Ur. sapphirina	3	5	

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	326	7983	9
Ae. cinereus	5	191	
Ae. vexans	27	301	1
An. punctipennis	24	248	
An. quadrimaculatus	10	29	
An. walkeri	5	147	
Cq. perturbans	1	1	
Cx. mix	147	5488	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	37	1082	1
Ps. ferox	2	36	
Grand Total	7184	153203	279