

VECTOR SURVEILLANCE SUMMARY SHEET

PRELIMINARY SEASON SUMMATION
(Data from Week 21)

Culiseta melanura Monitor
October 20-24, 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.)	0.2	0.2	2699	106	11	Waterford (Camden Co.)	0.1	0.2	2122	89	9
Corbin City (Atlantic Co.)	0.1	<0.1	1132	89	1	Centerton (Salem Co.)	0.2	2.7	3602	121	9
Dennisville (Cape May Co.)	2.7	<0.1	1370	75	0	Turkey Swamp (Monmouth Co.)	NA	0.4	216	56	5

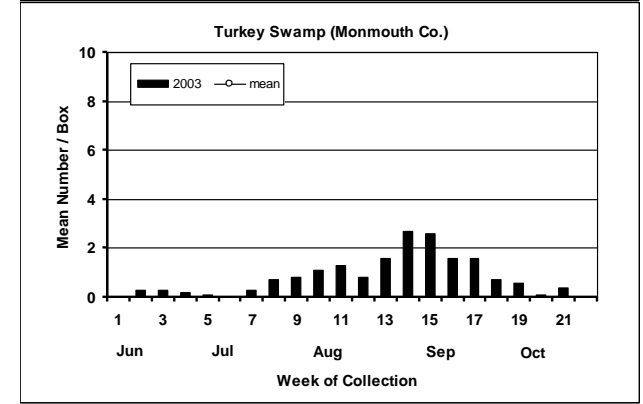
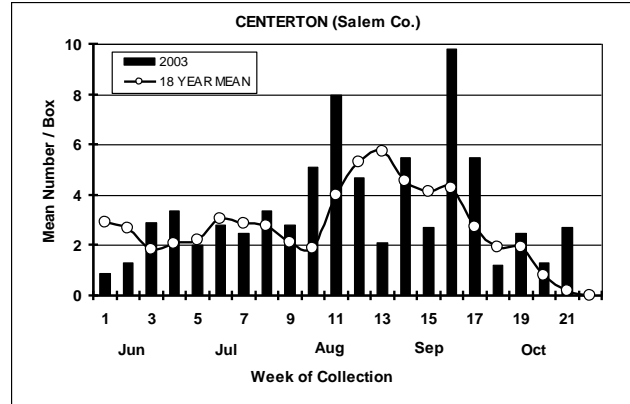
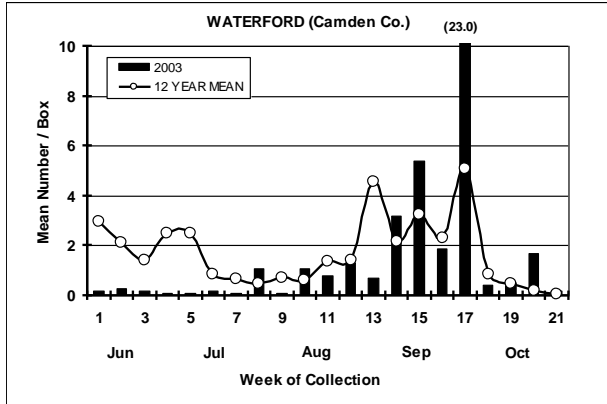
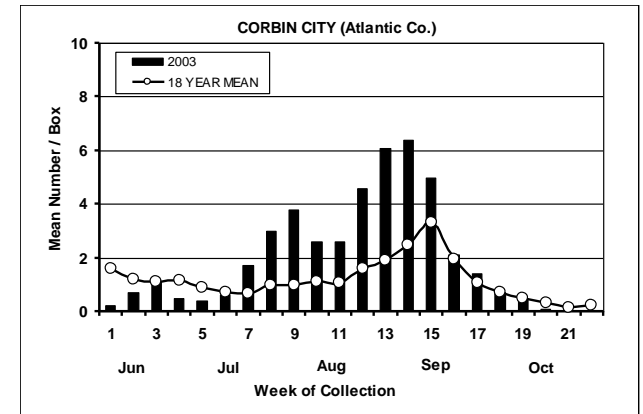
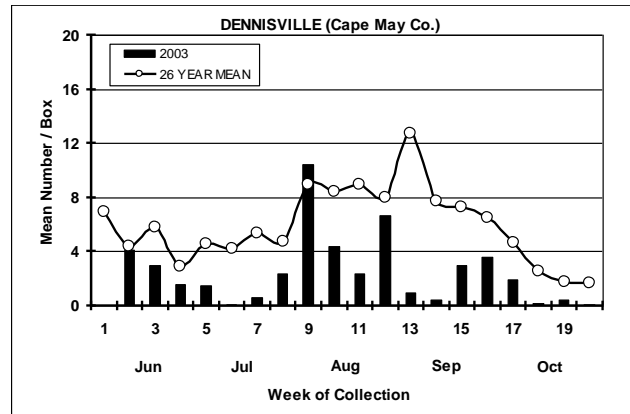
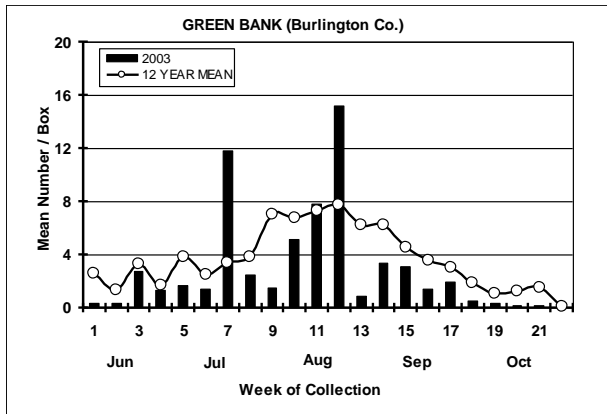
Collections submitted to PHEL for West Nile Virus testing

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	247	469	221	2,933	474	366	234	390	131	547	169	2258	8,439
Total Specimens	5,229	11,914	6,084	80,530	8,874	7,997	5,496	2,403	2,813	3,483	853	32,955	168,631
No. Positive Pools	25	33	1	261	4	1	2	1	0	4	2	20	354

Remarks: This year's EEE activity began at the Green Bank site in Burlington Co. with a virus isolation from *Cs. melanura* in late June. EEE activity was confined to the Mullica River drainage until early August when the epizootic spread through the southern half of the state. *Cs. melanura* populations were higher than average at most sites for much of the season. A total of 35 pools of *Cs. melanura* from resting box collections tested positive for EEE. Six (6) additional positive pools were obtained from special collections using CO₂ baited light traps. Eight (8) equine cases of EEE have been confirmed from 5 southern counties, thus far. A single human case of EEE was documented from Burlington Co. with an August 23 onset date. WNV activity began with a positive pool from *Cx. pipiens* taken from hibernation in early January. WNV, however, was not evident in any field collected mosquitoes until early July. Over the course of the 2003 season, WNV was found in 354 mosquito pools comprised of 15 different species. Through late October, 142 equine and 28 human cases of WNV have been confirmed.

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Culiseta melanura Population Graphs



Green Bank – Positive pools in June (1), July (4), August (5) and September (1)

Dennisville - No positive pools at this study site in 2003

Corbin City – Single positive pool in late September

Waterford – Positive pools in August (3) and September (6). (Note the late season population increase at this study site)

Centerton – Positive pools in August (1) and September (8)

Turkey Swamp – Positive pools in August (1) and September (4)

Mosquito Species Submitted for WNV Testing through October 24, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	169	853	2
Ae. cinereus	24	302	
Ae. vexans	474	8874	4
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	6	6	
An. bradleyi	58	449	
An. crucians	3	6	
An. punctipennis	310	2413	
An. quadrimaculatus	225	3525	
An. walkeri	9	195	
Cq. perturbans	105	1951	1
Cs. inornata	3	4	
Cs. melanura	752	15099	15
Cx. erraticus	35	474	
Cx. mix	2933	80530	261
Cx. pipiens	247	5229	25
Cx. restuans	469	11914	33
Cx. salinarius	221	6084	1
Cx. territans	108	715	
Oc. abserratus	3	9	
Oc. atlanticus	17	27	
Oc. atropalpus	4	12	
Oc. aurifer	8	176	
Oc. canadensis	366	7997	1
Oc. cantator	116	1842	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	547	3483	4
Oc. mitchellae	1	1	
Oc. sollicitans	131	2813	
Oc. sticticus	94	1514	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	12	128	
Oc. thibaulti	6	128	
Oc. triseriatus	390	2403	1
Oc. trivittatus	234	5496	2
Or. signifera	12	28	
Ps. ciliata	16	61	
Ps. columbiae	72	1116	1
Ps. ferox	106	1507	1
Ps. howardii	4	17	
Ur. sapphirina	45	279	1
Wy. smithii	7	31	
Grand Total	8439	168631	354

Submissions by County through October 24, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		570	14819	20
	Ae. albopictus	14	115	
	Ae. vexans	38	919	
	An. punctipennis	9	54	
	An. quadrimaculatus	9	125	
	Cq. perturbans	8	280	
	Cs. melanura	123	2592	1
	Cx. erraticus	4	103	
	Cx. mix	134	5202	18
	Cx. pipiens	1	16	
	Cx. restuans	17	187	
	Cx. salinarius	13	402	
	Cx. territans	12	59	
	Oc. canadensis	49	1678	1
	Oc. cantator	32	1157	
	Oc. grossbecki	4	59	
	Oc. japonicus	12	70	
	Oc. sollicitans	27	829	
	Oc. sticticus	5	124	
	Oc. triseriatus	28	370	
	Oc. trivittatus	5	127	
	Oc. thibaulti	5	127	
	Ps. columbiae	1	1	
	Oc. taeniorhynchus	2	50	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	11	109	
	Oc. atropalpus	1	6	
	Ps. ciliata	3	3	
Bergen		492	18687	47
	Ae. albopictus	6	42	
	Ae. cinereus	1	10	
	Ae. vexans	24	854	
	An. punctipennis	9	81	
	An. quadrimaculatus	7	74	
	Cx. mix	290	13714	47
	Cx. pipiens	23	533	
	Cx. restuans	17	396	
	Cx. salinarius	38	1591	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	37	658	
	Oc. sticticus	1	15	
	Oc. triseriatus	22	168	
	Oc. trivittatus	9	324	
	Ps. ferox	1	50	

Burlington	471	6972	8
Ae. albopictus	34	179	2
Ae. cinereus	4	4	
Ae. vexans	34	441	
An. punctipennis	25	164	
An. quadrimaculatus	10	21	
Cq. perturbans	4	53	
Cs. inornata	1	1	
Cs. melanura	114	2854	3
Cx. erraticus	2	2	
Cx. mix	101	1906	3
Cx. restuans	7	34	
Cx. salinarius	7	20	
Cx. territans	4	13	
Oc. canadensis	33	629	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	21	90	
Oc. sollicitans	7	221	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	14	63	
Oc. trivittatus	5	49	
Ps. columbiae	4	10	
An. barberi	1	1	
Oc. taeniorhynchus	1	24	
Or. signifera	2	2	
An. crucians	2	5	
Ps. ferox	4	46	
An. bradleyi	3	20	
Oc. mitchellae	1	1	
Oc. atropalpus	1	4	
Ur. sapphirina	1	3	
Ps. howardii	3	16	
Ps. ciliata	2	2	
Camden	361	4660	5
Ae. albopictus	14	31	
Ae. vexans	21	178	
An. punctipennis	38	680	
An. quadrimaculatus	18	43	
Cq. perturbans	10	112	
Cs. melanura	101	2302	2
Cx. erraticus	2	2	
Cx. mix	42	658	
Cx. pipiens	8	26	1
Cx. restuans	20	122	2
Cx. salinarius	5	35	
Cx. territans	11	110	
Oc. canadensis	15	63	
Oc. grossbecki	2	6	
Oc. japonicus	8	22	
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	11	120	
	Oc. atropalpus	1	1	
	Ur. sapphirina	14	80	
	Ps. ciliata	2	2	
Cape May		531	10457	7
	Ae. albopictus	11	24	
	Ae. vexans	3	39	
	An. punctipennis	9	21	
	An. quadrimaculatus	68	2727	
	Cq. perturbans	6	196	1
	Cs. melanura	103	1951	2
	Cx. erraticus	12	265	
	Cx. mix	210	3370	3
	Cx. pipiens	2	23	
	Cx. restuans	16	372	1
	Cx. salinarius	18	140	
	Cx. territans	15	126	
	Oc. canadensis	16	610	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
	Oc. japonicus	3	7	
	Oc. sollicitans	3	49	
	Oc. triseriatus	7	33	
	Oc. taeniorhynchus	1	6	
	An. bradleyi	15	166	
Cumberland		378	4347	6
	Ae. albopictus	6	18	
	Ae. cinereus	1	1	
	Ae. vexans	30	241	
	An. punctipennis	9	21	
	An. quadrimaculatus	11	32	
	Cq. perturbans	1	1	
	Cs. melanura	19	308	1
	Cx. erraticus	1	6	
	Cx. mix	50	208	
	Cx. pipiens	28	657	3
	Cx. restuans	21	354	2
	Cx. salinarius	40	1776	
	Cx. territans	5	36	
	Oc. canadensis	34	112	
	Oc. cantator	2	3	
	Oc. grossbecki	7	10	
	Oc. japonicus	4	5	
	Oc. sollicitans	18	38	
	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	
	Ur. sapphirina	1	1	
	Wy. smithii	7	31	
Essex		270	3676	13
	Ae. albopictus	4	69	
	Ae. cinereus	1	20	
	Ae. vexans	35	745	
	An. punctipennis	3	4	
	An. quadrimaculatus	1	1	
	Cx. mix	95	1332	13
	Oc. canadensis	6	23	
	Oc. japonicus	20	63	
	Oc. sticticus	35	464	
	Oc. stimulans	8	31	
	Oc. triseriatus	10	13	
	Oc. trivittatus	37	651	
	Ps. ferox	15	260	
Gloucester		463	9174	46
	Ae. albopictus	49	139	
	Ae. vexans	9	160	
	An. punctipennis	13	22	
	An. quadrimaculatus	2	4	
	Cq. perturbans	2	3	
	Cs. melanura	10	398	2
	Cx. mix	248	7297	38
	Cx. pipiens	8	119	2
	Cx. restuans	10	269	1
	Cx. salinarius	10	348	
	Cx. territans	2	6	
	Oc. canadensis	3	23	
	Oc. excrucians	2	3	
	Oc. japonicus	55	146	2
	Oc. sticticus	2	5	
	Oc. triseriatus	23	74	
	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		190	2815	12
	Ae. albopictus	3	23	
	Ae. vexans	5	170	
	Cq. perturbans	4	151	
	Cx. mix	139	1108	11
	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		305	11358	31
	Ae. vexans	4	38	
	An. punctipennis	9	42	
	An. quadrimaculatus	1	1	
	Cx. mix	244	10709	31
	Oc. japonicus	19	132	
	Oc. triseriatus	12	36	
	Oc. trivittatus	11	349	
	Ps. columbiae	1	19	
	Ps. ferox	2	5	
	Ps. ciliata	2	27	
Mercer		547	11571	28
	Ae. albopictus	2	6	
	Ae. cinereus	2	4	
	Ae. vexans	37	824	1
	An. punctipennis	26	184	
	An. quadrimaculatus	8	17	
	An. walkeri	1	1	
	Cq. perturbans	12	504	
	Cs. inornata	1	1	
	Cs. melanura	6	8	1
	Cx. mix	49	1535	11
	Cx. pipiens	58	1574	10
	Cx. restuans	153	4246	4
	Cx. salinarius	19	135	
	Cx. territans	3	6	
	Oc. canadensis	47	1256	
	Oc. cantator	1	2	
	Oc. excrucians	3	7	
	Oc. grossbecki	17	195	
	Oc. japonicus	37	274	1
	Oc. sticticus	6	11	
	Oc. triseriatus	17	138	
	Oc. trivittatus	9	46	
	Ps. columbiae	6	19	
	Or. signifera	2	3	
	Ps. ferox	16	516	
	Oc. atlanticus	3	3	
	An. bradleyi	1	7	
	Ur. sapphirina	3	47	
	Ps. ciliata	2	2	
Middlesex		223	2897	20
	Ae. albopictus	2	4	
	Ae. vexans	15	141	1
	An. punctipennis	7	7	
	An. quadrimaculatus	6	9	
	Cq. perturbans	2	8	
	Cx. mix	125	1969	17
	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	11	33	
	Oc. trivittatus	6	59	
	Ps. columbiae	10	291	1
	An. crucians	1	1	
	Ps. ferox	3	28	
	Ur. sapphirina	5	49	1
Monmouth		736	9564	17
	Ae. albopictus	5	9	
	Ae. vexans	44	855	1
	An. punctipennis	27	172	
	An. quadrimaculatus	13	44	
	Cq. perturbans	7	18	
	Cs. melanura	65	274	
	Cx. erraticus	4	11	
	Cx. mix	207	2585	2
	Cx. pipiens	47	1002	4
	Cx. restuans	47	1287	10
	Cx. salinarius	19	339	
	Cx. territans	15	77	
	Oc. abserratus	2	6	
	Oc. canadensis	38	591	
	Oc. cantator	22	90	
	Oc. excrucians	1	3	
	Oc. japonicus	58	262	
	Oc. sollicitans	27	642	
	Oc. sticticus	1	6	
	Oc. triseriatus	43	811	
	Oc. trivittatus	12	47	
	Oc. thibaulti	1	1	
	Ps. columbiae	11	313	
	An. barberi	4	4	
	Oc. taeniorhynchus	1	1	
	Or. signifera	2	2	
	Ps. ferox	8	106	
	Ur. sapphirina	3	4	
	Ps. ciliata	1	1	
	Oc. hendersoni	1	1	
Morris		222	4976	13
	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	10
	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	1
	Oc. trivittatus	19	669	1
	Ps. ferox	4	88	
Ocean		646	10988	17
	Ae. albopictus	12	173	
	Ae. vexans	50	1057	
	An. punctipennis	21	147	
	An. quadrimaculatus	13	152	
	Cq. perturbans	22	115	
	Cs. inornata	1	2	
	Cs. melanura	87	914	1
	Cx. mix	117	3281	2
	Cx. pipiens	13	207	4
	Cx. restuans	59	1815	10
	Cx. salinarius	25	658	
	Cx. territans	20	145	
	Oc. canadensis	36	605	
	Oc. cantator	21	251	
	Oc. grossbecki	2	3	
	Oc. japonicus	33	165	
	Oc. sollicitans	29	832	
	Oc. sticticus	2	6	
	Oc. triseriatus	40	178	
	Oc. trivittatus	8	56	
	Ps. columbiae	6	92	
	Or. signifera	3	4	
	Ps. ferox	9	75	
	Oc. atlanticus	1	2	
	An. bradleyi	7	13	
	Ur. sapphirina	6	17	
	Ps. ciliata	3	23	
Passaic		252	6202	13
	Ae. albopictus	2	5	
	Ae. vexans	2	2	
	An. punctipennis	2	5	
	Cx. mix	140	4874	13
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	52	602	
	Oc. sticticus	3	8	
	Oc. triseriatus	22	87	
	Oc. trivittatus	1	4	
	Or. signifera	2	2	
	Ps. ferox	1	1	

Salem	581	8833	7
Ae. albopictus	5	16	
Ae. vexans	29	144	
An. punctipennis	20	142	
An. quadrimaculatus	33	190	
Cq. perturbans	7	9	
Cs. melanura	119	3471	2
Cx. erraticus	10	85	
Cx. mix	197	3375	5
Cx. pipiens	19	324	
Cx. restuans	18	200	
Cx. salinarius	4	4	
Cx. territans	15	105	
Oc. canadensis	18	454	
Oc. cantator	18	110	
Oc. grossbecki	5	21	
Oc. japonicus	17	37	
Oc. sollicitans	3	3	
Oc. triseriatus	15	19	
Oc. trivittatus	1	2	
Ps. columbiae	13	73	
Ps. ferox	6	14	
An. bradleyi	4	5	
Ur. sapphirina	4	29	
Ps. ciliata	1	1	
Somerset	210	4064	15
Ae. cinereus	1	15	
Ae. vexans	7	55	
An. punctipennis	8	42	
An. quadrimaculatus	3	4	
Cx. mix	119	3076	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	31	142	
Oc. triseriatus	7	9	
Oc. trivittatus	10	236	
Ps. ferox	3	12	
Ps. howardii	1	1	
Sussex	496	11316	9
Ae. cinereus	6	39	
Ae. vexans	40	1436	
An. punctipennis	34	307	
An. quadrimaculatus	10	46	
An. walkeri	1	20	
Cq. perturbans	12	283	
Cs. melanura	5	27	
Cx. mix	162	4577	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	15	295	
	Oc. excrucians	3	58	
	Oc. japonicus	59	497	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	37	134	
	Oc. trivittatus	39	1616	
	Ps. columbiae	1	1	
	An. barberi	1	1	
	Ps. ferox	4	55	
	Ur. sapphirina	6	44	
Union		102	2700	8
	Ae. vexans	2	7	
	An. punctipennis	1	1	
	Cx. mix	40	1528	8
	Cx. pipiens	4	19	
	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	10	32	
	Oc. sollicitans	1	7	
	Oc. sticticus	2	4	
	Oc. triseriatus	4	6	
	Oc. trivittatus	3	7	
	Ps. ferox	1	1	
Warren		393	8555	12
	Ae. cinereus	6	192	
	Ae. vexans	32	313	1
	An. punctipennis	29	274	
	An. quadrimaculatus	10	29	
	An. walkeri	6	172	
	Cq. perturbans	1	1	
	Cx. mix	160	5681	9
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	9	222	
	Oc. cantator	5	67	
	Oc. japonicus	36	117	
	Oc. sticticus	3	14	
	Oc. stimulans	7	63	1
	Oc. triseriatus	30	64	
	Oc. trivittatus	46	1178	1
	Ps. ferox	4	38	
	Ur. sapphirina	1	2	
Grand Total		8439	168631	354

