

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 12

## *Culiseta melanura* Monitor August 18-22, 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
<b>Green Bank</b> (Burlington Co.)	7.3	15.2	2,180	78	7	<b>Waterford</b> (Camden Co.)	1.4	1.3	275	33	1
<b>Corbin City</b> (Atlantic Co.)	1.1	2.6	461	55	0	<b>Centerton</b> (Salem Co.)	5.3	4.7	1,970	69	0
<b>Dennisville</b> (Cape May Co.)	8.0	6.7	1,124	46	0	<b>Turkey Swamp</b> (Monmouth Co.)	NA	0.8	69	27	0

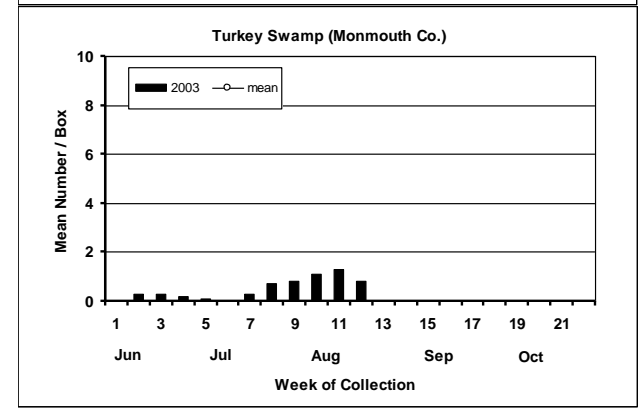
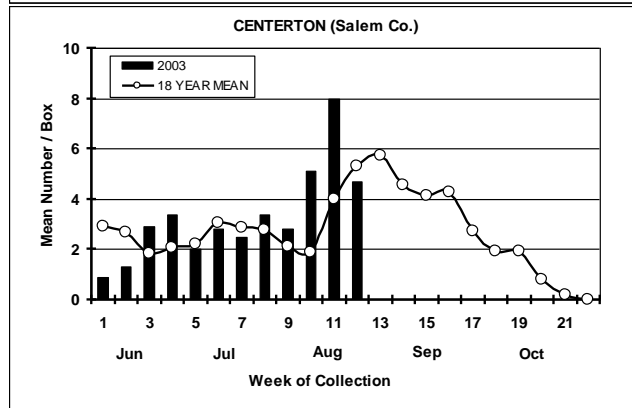
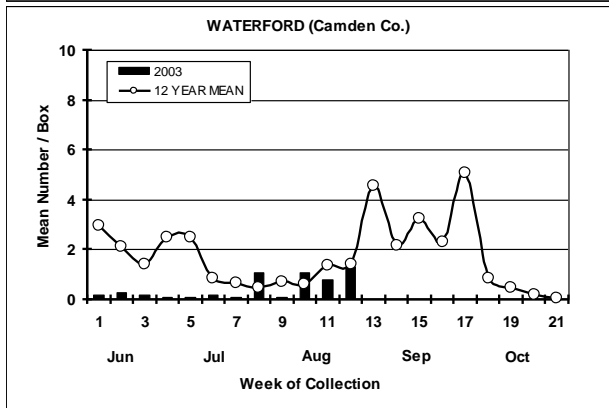
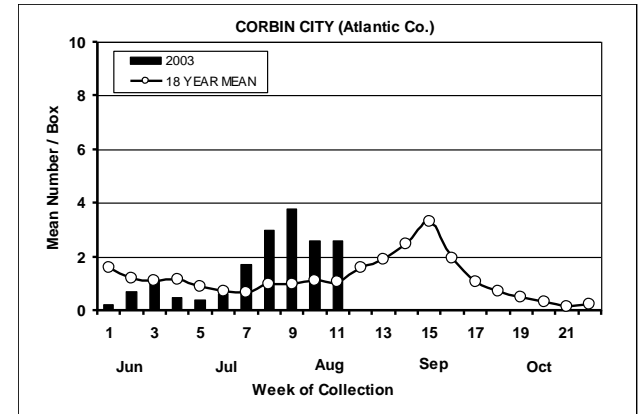
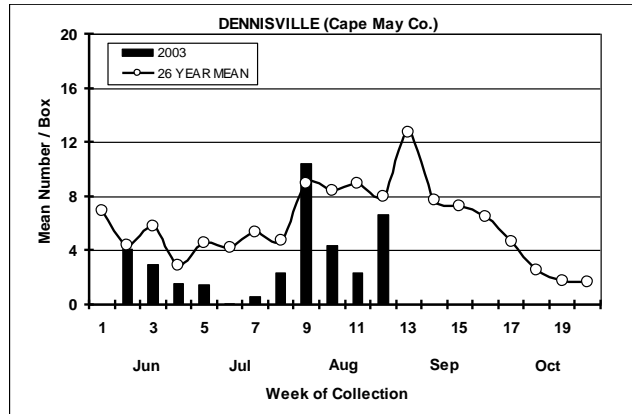
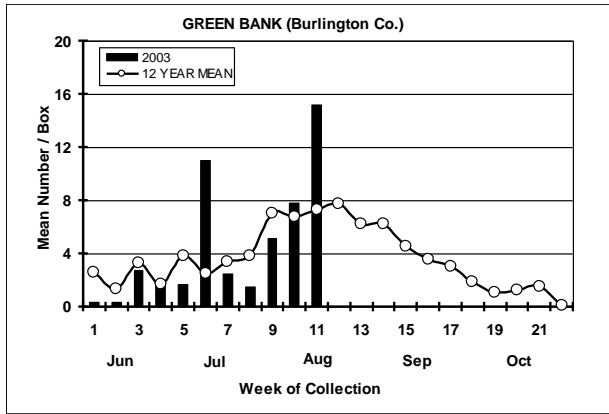
### Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>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
<b>No. Pools</b>	147	374	129	1,923	236	315	96	231	78	280	65	1,308	5,182
<b>Total Specimens</b>	3,147	10,110	3,661	59,021	5,018	7,603	1,798	1,600	1,751	1,911	316	20,273	116,209
<b>No. Positive Pools</b>	9	15	1	87	3	1	1	0	0	2	1	6	126

**Remarks:** *Culiseta melanura* populations remain high at all of the sites being monitored by this program. Surveillance data indicate that EEE is beginning to appear at foci in southern NJ beyond the Mullica River drainage where activity has been most intense. A pool of *Cs. melanura* collected Aug. 6 from the Waterford site in Camden Co. tested positive for EEE. The Cape May Co. Mosquito Control Commission reported a sentinel chicken seroconversion in a flock stationed at Belleplain from an Aug. 18 bleeding. *Cs. melanura* are also making contact with WNV, underscoring their role as a bird feeding species and secondary amplification host of this introduced virus. Positive pools have been collected from 3 counties, to date, including Burlington, Cape May & Salem. WNV is also appearing in a greater variety of amplification and bridge vectors. MFIR values for key species include: *Cx. pipiens* (2.85), *Cx. restuans* ( 1.46), *Cs. melanura* (0.39), *Ae. vexans* (0.59), *Oc. trivittatus* (0.56), *Oc. canadensis* (0.13), *Oc. japonicus* (1.04) & *Ae. albopictus* (3.16). Amplification of WNV is currently progressing at an accelerated rate but is well below levels seen last year. Week 12 of the 2002 season yielded 225 positive pools from the 120,241 specimens tested to that point in time.

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# Culiseta melanura Population Graphs



## Mosquito Species Submitted for WNV Testing through August 22, 2003

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	65	316	1
Ae. cinereus	16	68	
Ae. vexans	236	5018	3
Aedes/Ochleratus sp.	2	3	
An. barberi	3	3	
An. bradleyi	14	95	
An. crucians	1	3	
An. punctipennis	177	1436	
An. quadrimaculatus	127	2548	
An. walkeri	6	149	
Cq. perturbans	83	1860	1
Cs. inornata	2	3	
Cs. melanura	378	7559	3
Cx. erraticus	9	89	
Cx. mix	1923	59021	87
Cx. pipiens	147	3147	9
Cx. restuans	374	10110	15
Cx. salinarius	129	3661	1
Cx. territans	53	371	
Oc. abserratus	3	9	
Oc. atlanticus	8	15	
Oc. atropalpus	2	7	
Oc. aurifer	8	176	
Oc. canadensis	315	7603	1
Oc. cantator	111	1818	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	280	1911	2
Oc. mitchellae	1	1	
Oc. sollicitans	78	1751	
Oc. sticticus	88	1500	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	8	79	
Oc. thibaulti	6	128	
Oc. triseriatus	231	1600	
Oc. trivittatus	96	1798	1
Or. signifera	3	17	
Ps. ciliata	6	32	
Ps. columbiae	37	707	1
Ps. ferox	54	646	
Ps. howardii	4	17	
ter	1	3	
Ur. sapphirina	3	5	
<b>Grand Total</b>	<b>5182</b>	<b>116209</b>	<b>126</b>

## Submissions by County through August 22, 2003

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>356</b>	<b>11661</b>	<b>6</b>
	Ae. albopictus	5	63	
	Ae. vexans	17	675	
	An. punctipennis	1	1	
	An. quadrimaculatus	1	1	
	Cq. perturbans	8	280	
	Cs. melanura	70	1648	
	Cx. mix	97	4259	5
	Cx. restuans	9	150	
	Cx. salinarius	10	386	
	Cx. territans	4	21	
	Oc. canadensis	43	1625	1
	Oc. cantator	29	1135	
	Oc. grossbecki	4	59	
	Oc. japonicus	7	44	
	Oc. sollicitans	14	498	
	Oc. sticticus	5	124	
	Oc. triseriatus	17	308	
	Oc. trivittatus	3	119	
	Oc. thibaulti	5	127	
	Oc. taeniorhynchus	1	32	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	2	45	
	Oc. atropalpus	1	6	
<b>Bergen</b>		<b>303</b>	<b>11753</b>	<b>13</b>
	Ae. albopictus	3	29	
	Ae. cinereus	1	10	
	Ae. vexans	11	461	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	191	9088	13
	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	28	490	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	
	Oc. trivittatus	2	70	

<b>Burlington</b>	<b>317</b>	<b>5236</b>	<b>4</b>
Ae. albopictus	13	69	1
Ae. cinereus	4	4	
Ae. vexans	18	247	
An. punctipennis	19	150	
An. quadrimaculatus	7	17	
Cq. perturbans	2	47	
Cs. melanura	81	2161	
Cx. mix	75	1543	3
Cx. restuans	7	34	
Cx. salinarius	4	8	
Cx. territans	2	8	
Oc. canadensis	29	604	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	6	28	
Oc. sollicitans	4	70	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	9	34	
Oc. trivittatus	3	40	
Ps. columbiae	2	6	
An. barberi	1	1	
Or. signifera	1	1	
An. crucians	1	3	
Ps. ferox	3	45	
An. bradleyi	1	1	
Oc. mitchellae	1	1	
Ur. sapphirina	1	3	
Ps. howardii	3	16	
Ps. ciliata	1	1	

<b>Camden</b>	<b>144</b>	<b>1671</b>	<b>1</b>
Ae. albopictus	8	14	
Ae. vexans	6	11	
An. punctipennis	21	489	
An. quadrimaculatus	4	10	
Cq. perturbans	6	96	
Cs. melanura	33	253	1
Cx. mix	23	542	
Cx. restuans	10	80	
Cx. salinarius	3	31	
Cx. territans	6	70	
Oc. canadensis	4	13	
Oc. grossbecki	2	6	
Oc. japonicus	1	5	
Oc. sollicitans	1	1	
Oc. sticticus	1	1	
Oc. triseriatus	7	19	
Ps. columbiae	1	2	
An. bradleyi	3	24	
Oc. atropalpus	1	1	
Ur. sapphirina	1	1	
Ps. ciliata	2	2	
<b>Cape May</b>	<b>338</b>	<b>7938</b>	<b>2</b>
An. punctipennis	5	16	
An. quadrimaculatus	50	2203	
Cq. perturbans	4	186	1
Cs. melanura	61	1406	1
Cx. erraticus	1	9	
Cx. mix	153	2648	
Cx. pipiens	2	23	
Cx. restuans	11	348	
Cx. salinarius	5	30	
Cx. territans	10	98	
Oc. canadensis	15	599	
Oc. cantator	7	110	
Oc. grossbecki	6	222	
Oc. japonicus	1	3	
Oc. triseriatus	3	18	
An. bradleyi	4	19	

<b>Cumberland</b>	<b>188</b>	<b>1996</b>	<b>5</b>
Ae. albopictus	1	3	
Ae. cinereus	1	1	
Ae. vexans	11	41	
An. punctipennis	5	7	
An. quadrimaculatus	2	2	
Cs. melanura	3	5	
Cx. mix	20	72	
Cx. pipiens	10	249	3
Cx. restuans	13	279	2
Cx. salinarius	19	913	
Cx. territans	2	3	
Oc. canadensis	28	103	
Oc. cantator	2	3	
Oc. grossbecki	7	10	
Oc. japonicus	3	4	
Oc. sollicitans	8	23	
Oc. sticticus	10	75	
Oc. triseriatus	11	19	
Oc. trivittatus	4	11	
Ps. columbiae	6	67	
Oc. taeniorhynchus	6	46	
Ps. ferox	11	49	
Oc. atlanticus	5	11	
<b>Essex</b>	<b>148</b>	<b>2178</b>	<b>0</b>
Ae. vexans	22	530	
An. punctipennis	3	4	
An. quadrimaculatus	1	1	
Cx. mix	47	685	
Oc. canadensis	6	23	
Oc. japonicus	3	4	
Oc. sticticus	31	453	
Oc. stimulans	8	31	
Oc. triseriatus	4	4	
Oc. trivittatus	13	246	
Ps. ferox	10	197	
<b>Gloucester</b>	<b>239</b>	<b>6024</b>	<b>22</b>
Ae. albopictus	22	42	
Ae. vexans	6	107	
An. punctipennis	6	9	
An. quadrimaculatus	1	3	
Cx. mix	148	5322	21
Cx. pipiens	2	3	
Cx. restuans	6	160	
Cx. salinarius	5	149	

	Cx. territans	1	4	
	Oc. canadensis	2	17	
	Oc. excrucians	2	3	
	Oc. japonicus	19	56	1
	Oc. sticticus	2	5	
	Oc. triseriatus	12	37	
	Oc. trivittatus	1	4	
	Ps. ferox	3	101	
	An. bradleyi	1	2	
<b>Hudson</b>		<b>104</b>	<b>2174</b>	<b>1</b>
	Ae. albopictus	3	23	
	Ae. vexans	5	170	
	Cq. perturbans	4	151	
	Cx. mix	53	467	
	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	
<b>Hunterdon</b>		<b>175</b>	<b>7152</b>	<b>8</b>
	Ae. vexans	1	4	
	An. punctipennis	5	38	
	Cx. mix	141	6727	8
	Oc. japonicus	11	96	
	Oc. triseriatus	9	31	
	Oc. trivittatus	6	214	
	Ps. columbiae	1	19	
	Ps. ciliata	1	23	
<b>Mercer</b>		<b>375</b>	<b>8510</b>	<b>13</b>
	Ae. cinereus	2	4	
	Ae. vexans	21	595	
	An. punctipennis	17	119	
	An. quadrimaculatus	2	2	
	Cq. perturbans	11	488	
	Cs. inornata	1	1	
	Cs. melanura	3	3	
	Cx. mix	22	664	8
	Cx. pipiens	34	810	4
	Cx. restuans	142	4067	1
	Cx. salinarius	14	110	
	Cx. territans	3	6	
	Oc. canadensis	46	1254	



Oc. cantator	1	2	
Oc. excrucians	3	7	
Oc. grossbecki	17	195	
Oc. japonicus	15	43	
Oc. sticticus	4	8	
Oc. triseriatus	5	28	
Oc. trivittatus	2	12	
Ps. columbiae	1	2	
Ps. ferox	7	88	
Oc. atlanticus	2	2	
<b>Middlesex</b>	<b>166</b>	<b>2419</b>	<b>9</b>
Ae. albopictus	1	1	
Ae. vexans	14	140	1
An. punctipennis	5	5	
An. quadrimaculatus	4	4	
Cq. perturbans	2	8	
Cx. mix	96	1640	7
Oc. canadensis	5	47	
Oc. cantator	2	18	
Oc. excrucians	1	2	
Oc. grossbecki	1	1	
Oc. japonicus	3	13	
Oc. sollicitans	12	165	
Oc. triseriatus	5	10	
Oc. trivittatus	5	50	
Ps. columbiae	8	289	1
Ps. ferox	2	26	
<b>Monmouth</b>	<b>477</b>	<b>7077</b>	<b>7</b>
Ae. albopictus	3	7	
Ae. vexans	26	610	1
An. punctipennis	13	122	
An. quadrimaculatus	7	27	
Cq. perturbans	5	11	
Cs. melanura	30	118	
Cx. erraticus	1	2	
Cx. mix	151	2135	
Cx. pipiens	33	835	1
Cx. restuans	30	749	5
Cx. salinarius	12	202	
Cx. territans	4	13	
Oc. abserratus	2	6	
Oc. canadensis	34	583	
Oc. cantator	22	90	
Oc. excrucians	1	3	
Oc. japonicus	29	77	

Oc. sollicitans	21	619	
Oc. sticticus	1	6	
Oc. triseriatus	27	559	
Oc. trivittatus	8	30	
Oc. thibaulti	1	1	
Ps. columbiae	7	239	
An. barberi	2	2	
Oc. taeniorhynchus	1	1	
Ps. ferox	3	27	
Ur. sapphirina	1	1	
Ps. ciliata	1	1	
Oc. hendersoni	1	1	
<b>Morris</b>	<b>177</b>	<b>3741</b>	<b>6</b>
Ae. cinereus	2	17	
Ae. vexans	8	110	
An. punctipennis	10	38	
An. quadrimaculatus	2	6	
An. walkeri	1	2	
Cq. perturbans	6	208	
Cx. mix	53	2238	5
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	22	115	1
Oc. sticticus	2	6	
Oc. stimulans	1	2	
Oc. triseriatus	19	104	
Oc. trivittatus	6	24	
Ps. ferox	2	7	
<b>Ocean</b>	<b>383</b>	<b>7518</b>	<b>4</b>
Ae. albopictus	4	52	
Ae. vexans	23	545	
An. punctipennis	9	74	
An. quadrimaculatus	5	113	
Cq. perturbans	17	100	
Cs. inornata	1	2	
Cs. melanura	30	211	
Cx. mix	86	2819	
Cx. pipiens	5	68	
Cx. restuans	45	1447	4
Cx. salinarius	15	427	

	Cx. territans	9	72	
	Oc. canadensis	29	582	
	Oc. cantator	19	249	
	Oc. grossbecki	2	3	
	Oc. japonicus	24	135	
	Oc. sollicitans	14	359	
	Oc. sticticus	2	6	
	Oc. triseriatus	29	146	
	Oc. trivittatus	2	5	
	Ps. columbiae	2	42	
	Or. signifera	1	1	
	Ps. ferox	6	50	
	Oc. atlanticus	1	2	
	An. bradleyi	2	3	
	Ps. ciliata	1	5	
<b>Passaic</b>		<b>142</b>	<b>4715</b>	<b>4</b>
	An. punctipennis	2	5	
	Cx. mix	86	3833	4
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	21	239	
	Oc. sticticus	3	8	
	Oc. triseriatus	5	18	
<b>Salem</b>		<b>359</b>	<b>5723</b>	<b>1</b>
	Ae. albopictus	2	13	
	Ae. vexans	13	84	
	An. punctipennis	13	84	
	An. quadrimaculatus	22	112	
	Cq. perturbans	7	9	
	Cs. melanura	65	1750	1
	Cx. erraticus	7	78	
	Cx. mix	122	2367	
	Cx. pipiens	16	320	
	Cx. restuans	15	194	
	Cx. salinarius	3	3	
	Cx. territans	7	45	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. japonicus	5	21	
	Oc. sollicitans	2	2	
	Oc. triseriatus	7	10	
	Ps. columbiae	9	41	

	Ps. ferox	1	1	
	An. bradleyi	1	1	
	ter	1	3	
<b>Somerset</b>		<b>174</b>	<b>3849</b>	<b>7</b>
	Ae. cinereus	1	15	
	Ae. vexans	4	38	
	An. punctipennis	6	38	
	An. quadrimaculatus	3	4	
	Cx. mix	97	2914	3
	Cx. pipiens	4	84	1
	Cx. restuans	10	315	3
	Cx. salinarius	2	55	
	Cx. territans	2	14	
	Oc. canadensis	2	4	
	Oc. japonicus	22	110	
	Oc. triseriatus	7	9	
	Oc. trivittatus	10	236	
	Ps. ferox	3	12	
	Ps. howardii	1	1	
<b>Sussex</b>		<b>300</b>	<b>7295</b>	<b>4</b>
	Ae. cinereus	4	16	
	Ae. vexans	13	468	
	An. punctipennis	18	126	
	An. quadrimaculatus	5	18	
	Cq. perturbans	10	275	
	Cs. melanura	2	4	
	Cx. mix	113	3547	4
	Cx. pipiens	1	1	
	Cx. restuans	12	438	
	Cx. salinarius	2	6	
	Cx. territans	1	12	
	Oc. abserratus	1	3	
	Oc. aurifer	1	50	
	Oc. canadensis	11	285	
	Oc. excrucians	3	58	
	Oc. japonicus	35	351	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	23	83	
	Oc. trivittatus	16	621	
	Ps. ferox	1	3	

<b>Union</b>		<b>81</b>	<b>2220</b>	<b>2</b>
	Ae. vexans	2	7	
	Cx. mix	29	1081	2
	Cx. pipiens	4	19	
	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	4	5	
	Oc. sollicitans	1	7	
	Oc. sticticus	2	4	
	Oc. triseriatus	3	4	
	Oc. trivittatus	2	5	
<b>Warren</b>		<b>236</b>	<b>5359</b>	<b>7</b>
	Ae. cinereus	1	1	
	Ae. vexans	15	175	1
	An. punctipennis	17	103	
	An. quadrimaculatus	7	21	
	An. walkeri	5	147	
	Cq. perturbans	1	1	
	Cx. mix	120	4430	4
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	4	50	
	Oc. cantator	5	67	
	Oc. japonicus	21	72	
	Oc. sticticus	3	14	
	Oc. stimulans	7	63	1
	Oc. triseriatus	10	20	
	Oc. trivittatus	12	67	1
<b>Grand Total</b>		<b>5182</b>	<b>116209</b>	<b>126</b>

