

# VECTOR SURVEILLANCE SUMMARY SHEET

FINAL SEASON SUMMATION

## *Culiseta melanura* Monitor 2003 Season

Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected	Total Pools Submitted	EEE Isolations To Date	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected	Total Pools Submitted	EEE Isolations To Date
Green Bank (Burlington Co.)			2700	107	11	Waterford (Camden Co.)			2145	92	9
Corbin City (Atlantic Co.)			1145	91	1	Centerton (Salem Co.)			3616	125	10
Dennisville (Cape May Co.)			1370	75	0	Turkey Swamp (Monmouth Co.)			220	58	4

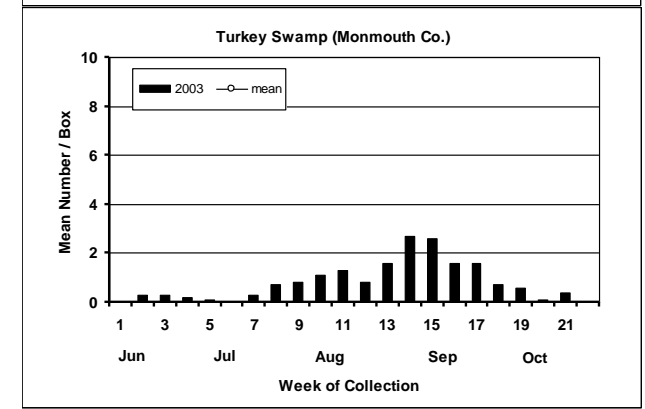
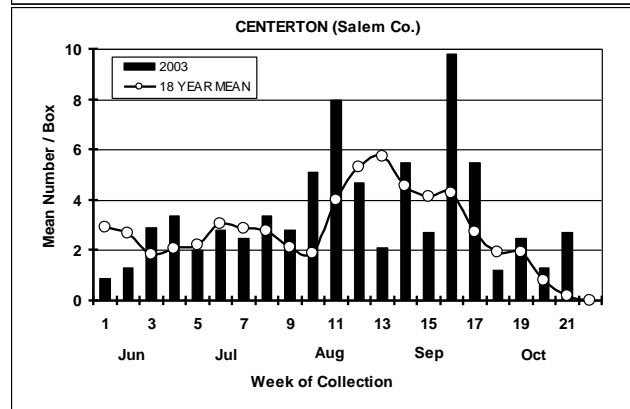
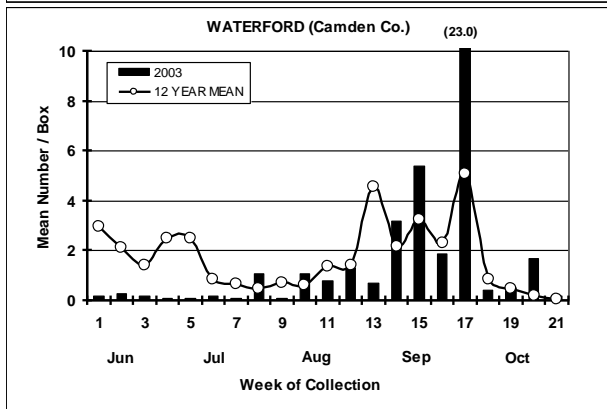
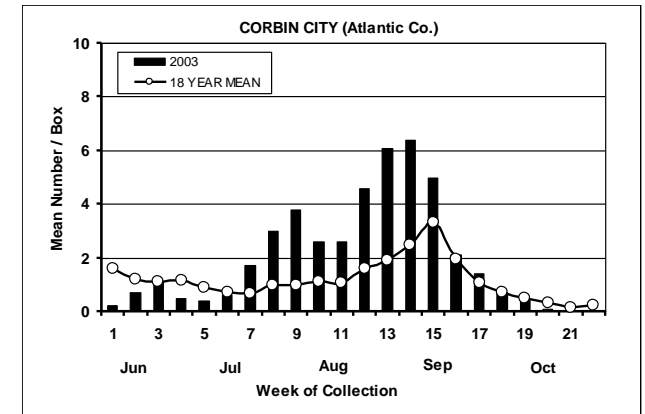
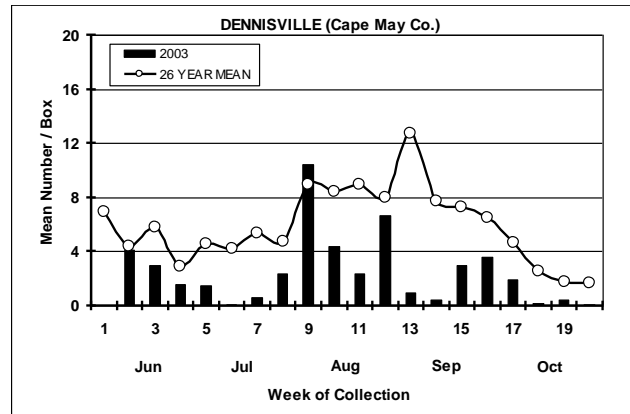
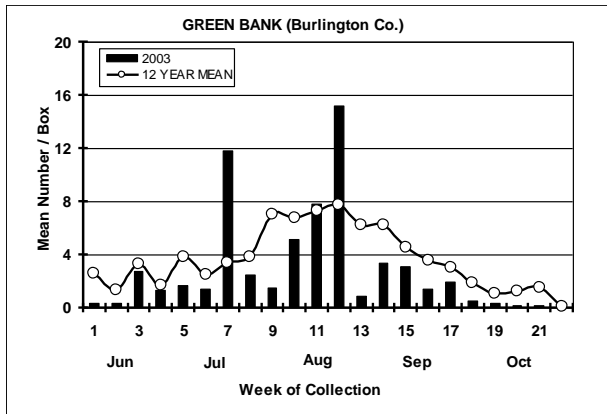
### Collections submitted to PHEL for West Nile Virus testing

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	255	475	232	3,099	529	370	254	407	143	605	173	2,373	8,915
Total Specimens	5,302	11,924	6,160	83,392	9,516	8,004	6,119	2,438	3,107	3,711	872	33,653	174,198
No. Positive Pools	25	33	1	272	4	1	2	1	0	5	2	20	366
Season MIR	4.7	2.8	0.2	3.3	0.4	0.1	0.3	0.4	0	1.3	2.3	-	2.1

**Remarks:** New Jersey's Vector Surveillance program tested 11,196 *Cs. melanura* for EEE in 548 pools and obtained 35 positives during the season. There were 8 equine cases of EEE from 5 southern counties (Atlantic, Burlington, Camden, Cumberland and Gloucester) and 2 confirmed human cases (1 each from Burlington and Atlantic). The program tested 174,198 total mosquitoes for WNV in 8,915 pools and obtained 366 positives. There were 150 confirmed equine cases of WNV from 16 counties and 33 confirmed humans. This report summarizes available mosquito data by species and county for the 2003 season.

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Summary Prepared by: Wayne J. Crans, Rutgers University

# 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 (9)**

**Turkey Swamp – Positive pools in August (1) and September (3)**

## Mosquito Species Submitted for WNV Testing in 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	173	872	2
Ae. cinereus	24	302	
Ae. vexans	529	9516	4
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	6	6	
An. bradleyi	66	512	
An. crucians	3	6	
An. punctipennis	337	2623	
An. quadrimaculatus	233	3555	
An. walkeri	11	200	
Cq. perturbans	109	1970	1
Cs. inornata	4	5	
Cs. melanura	788	15277	15
Cx. erraticus	39	497	
Cx. mix	3099	83392	272
Cx. pipiens	255	5302	25
Cx. restuans	475	11924	33
Cx. salinarius	232	6160	1
Cx. territans	113	744	
Oc. abserratus	3	9	
Oc. atlanticus	17	27	
Oc. atropalpus	4	12	
Oc. aurifer	8	176	
Oc. canadensis	370	8004	1
Oc. cantator	119	1859	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	605	3711	5
Oc. mitchellae	1	1	
Oc. sollicitans	143	3107	
Oc. sticticus	96	1517	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	12	128	
Oc. thibaulti	6	128	
Oc. triseriatus	407	2438	1
Oc. trivittatus	254	6119	2
Or. signifera	13	29	
Ps. ciliata	17	62	
Ps. columbiae	72	1116	1
Ps. ferox	111	1588	1
Ps. howardii	4	17	
Ur. sapphirina	52	311	1
Wy. smithii	8	36	
<b>Grand Total</b>	<b>8915</b>	<b>174198</b>	<b>366</b>

## Submissions by County in 2003

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>597</b>	<b>15079</b>	<b>21</b>
	Ae. albopictus	14	115	
	Ae. vexans	43	989	
	An. punctipennis	10	55	
	An. quadrimaculatus	10	126	
	Cq. perturbans	8	280	
	Cs. melanura	128	2611	1
	Cx. erraticus	5	104	
	Cx. mix	139	5312	19
	Cx. pipiens	1	16	
	Cx. restuans	19	192	
	Cx. salinarius	14	403	
	Cx. territans	14	83	
	Oc. canadensis	50	1679	1
	Oc. cantator	33	1169	
	Oc. grossbecki	4	59	
	Oc. japonicus	12	70	
	Oc. sollicitans	28	839	
	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	12	114	
	Oc. atropalpus	1	6	
	Ps. ciliata	3	3	
<b>Bergen</b>		<b>527</b>	<b>19867</b>	<b>51</b>
	Ae. albopictus	6	42	
	Ae. cinereus	1	10	
	Ae. vexans	25	866	
	An. punctipennis	9	81	
	An. quadrimaculatus	7	74	
	Cs. melanura	4	59	
	Cx. mix	311	14584	51
	Cx. pipiens	23	533	
	Cx. restuans	17	396	
	Cx. salinarius	39	1641	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	41	681	
	Oc. sticticus	1	15	
	Oc. triseriatus	22	168	
	Oc. trivittatus	11	415	
	Ps. ferox	3	125	

<b>Burlington</b>	<b>487</b>	<b>7021</b>	<b>8</b>
Ae. albopictus	36	194	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	116	2863	3
Cx. erraticus	2	2	
Cx. mix	106	1924	3
Cx. restuans	7	34	
Cx. salinarius	8	21	
Cx. territans	5	14	
Oc. canadensis	34	630	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	24	93	
Oc. sollicitans	7	221	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	15	64	
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	
<b>Camden</b>	<b>371</b>	<b>4699</b>	<b>5</b>
Ae. albopictus	14	31	
Ae. vexans	21	178	
An. punctipennis	40	684	
An. quadrimaculatus	19	44	
Cq. perturbans	10	112	
Cs. melanura	106	2333	2
Cx. erraticus	2	2	
Cx. mix	43	660	
Cx. pipiens	9	27	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	
<b>Cape May</b>		<b>550</b>	<b>10596</b>	<b>7</b>
	Ae. albopictus	12	26	
	Ae. vexans	3	39	
	An. punctipennis	10	24	
	An. quadrimaculatus	69	2731	
	Cq. perturbans	6	196	1
	Cs. melanura	107	1977	2
	Cx. erraticus	12	265	
	Cx. mix	219	3432	3
	Cx. pipiens	2	23	
	Cx. restuans	16	372	1
	Cx. salinarius	19	141	
	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	17	207	
<b>Cumberland</b>		<b>389</b>	<b>4385</b>	<b>6</b>
	Ae. albopictus	6	18	
	Ae. cinereus	1	1	
	Ae. vexans	32	247	
	An. punctipennis	9	21	
	An. quadrimaculatus	11	32	
	Cq. perturbans	1	1	
	Cs. melanura	21	313	1
	Cx. erraticus	1	6	
	Cx. mix	51	210	
	Cx. pipiens	29	658	3
	Cx. restuans	22	355	2
	Cx. salinarius	42	1793	
	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	5	7	
	Oc. atropalpus	1	1	
	Ur. sapphirina	1	1	
	Wy. smithii	8	36	
<b>Essex</b>		<b>286</b>	<b>3908</b>	<b>13</b>
	Ae. albopictus	4	69	
	Ae. cinereus	1	20	
	Ae. vexans	47	955	
	An. punctipennis	4	7	
	An. quadrimaculatus	1	1	
	Cx. mix	95	1332	13
	Oc. canadensis	6	23	
	Oc. japonicus	20	63	
	Oc. sticticus	37	467	
	Oc. stimulans	8	31	
	Oc. triseriatus	10	13	
	Oc. trivittatus	38	667	
	Ps. ferox	15	260	
<b>Gloucester</b>		<b>463</b>	<b>9174</b>	<b>47</b>
	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	39
	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	
<b>Hudson</b>		<b>190</b>	<b>2815</b>	<b>12</b>
	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	
<b>Hunterdon</b>		<b>330</b>	<b>11675</b>	<b>33</b>
	Ae. vexans	6	108	
	An. punctipennis	10	43	
	An. quadrimaculatus	1	1	
	Cx. mix	260	10887	33
	Oc. japonicus	24	150	
	Oc. triseriatus	12	36	
	Oc. trivittatus	12	399	
	Ps. columbiae	1	19	
	Ps. ferox	2	5	
	Ps. ciliata	2	27	
<b>Mercer</b>		<b>586</b>	<b>11910</b>	<b>28</b>
	Ae. albopictus	3	8	
	Ae. cinereus	2	4	
	Ae. vexans	42	852	1
	An. punctipennis	33	328	
	An. quadrimaculatus	9	35	
	An. walkeri	1	1	
	Cq. perturbans	12	504	
	Cs. inornata	1	1	
	Cs. melanura	11	16	1
	Cx. erraticus	1	20	
	Cx. mix	55	1568	11
	Cx. pipiens	62	1637	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	40	284	1
	Oc. sticticus	6	11	
	Oc. triseriatus	17	138	
	Oc. trivittatus	9	46	
	Ps. columbiae	6	19	
	Or. signifera	3	4	
	Ps. ferox	16	516	
	Oc. atlanticus	3	3	
	An. bradleyi	3	12	
	Ur. sapphirina	5	53	
	Ps. ciliata	3	3	
<b>Middlesex</b>		<b>223</b>	<b>2897</b>	<b>20</b>
	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
<b>Monmouth</b>		<b>771</b>	<b>9850</b>	<b>17</b>
	Ae. albopictus	5	9	
	Ae. vexans	49	863	1
	An. punctipennis	29	174	
	An. quadrimaculatus	14	45	
	Cq. perturbans	7	18	
	Cs. inornata	1	1	
	Cs. melanura	67	278	
	Cx. erraticus	4	11	
	Cx. mix	212	2617	2
	Cx. pipiens	48	1006	4
	Cx. restuans	48	1288	10
	Cx. salinarius	21	341	
	Cx. territans	15	77	
	Oc. abserratus	2	6	
	Oc. canadensis	39	592	
	Oc. cantator	23	93	
	Oc. excrucians	1	3	
	Oc. japonicus	62	277	
	Oc. sollicitans	32	845	
	Oc. sticticus	1	6	
	Oc. triseriatus	47	820	
	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	
<b>Morris</b>		<b>222</b>	<b>4976</b>	<b>13</b>
	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	
<b>Ocean</b>		<b>698</b>	<b>11513</b>	<b>18</b>
	Ae. albopictus	12	173	
	Ae. vexans	53	1085	
	An. punctipennis	22	149	
	An. quadrimaculatus	13	152	
	Cq. perturbans	24	127	
	Cs. inornata	1	2	
	Cs. melanura	89	916	1
	Cx. erraticus	1	1	
	Cx. mix	136	3636	3
	Cx. pipiens	14	211	4
	Cx. restuans	61	1818	10
	Cx. salinarius	28	662	
	Cx. territans	20	145	
	Oc. canadensis	37	609	
	Oc. cantator	22	253	
	Oc. grossbecki	2	3	
	Oc. japonicus	38	174	
	Oc. sollicitans	35	913	
	Oc. sticticus	2	6	
	Oc. triseriatus	42	181	
	Oc. trivittatus	9	58	
	Ps. columbiae	6	92	
	Or. signifera	3	4	
	Ps. ferox	10	78	
	Oc. atlanticus	1	2	
	An. bradleyi	8	23	
	Ur. sapphirina	6	17	
	Ps. ciliata	3	23	
<b>Passaic</b>		<b>274</b>	<b>6341</b>	<b>13</b>
	Ae. albopictus	2	5	
	Ae. vexans	3	3	
	An. punctipennis	2	5	
	Cx. mix	151	4929	13
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	62	685	
	Oc. sticticus	3	8	
	Oc. triseriatus	22	87	
	Oc. trivittatus	1	4	
	Or. signifera	2	2	

	Ps. ferox	1	1	
<b>Salem</b>		<b>618</b>	<b>8949</b>	<b>7</b>
	Ae. albopictus	5	16	
	Ae. vexans	34	177	
	An. punctipennis	21	146	
	An. quadrimaculatus	33	190	
	Cq. perturbans	7	9	
	Cs. melanura	123	3485	2
	Cx. erraticus	11	86	
	Cx. mix	214	3419	5
	Cx. pipiens	19	324	
	Cx. restuans	18	200	
	Cx. salinarius	4	4	
	Cx. territans	16	108	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. japonicus	21	43	
	Oc. sollicitans	3	3	
	Oc. triseriatus	16	20	
	Oc. trivittatus	1	2	
	Ps. columbiae	13	73	
	Ps. ferox	6	14	
	An. bradleyi	5	6	
	Ur. sapphirina	6	38	
	Ps. ciliata	1	1	
<b>Somerset</b>		<b>222</b>	<b>4101</b>	<b>15</b>
	Ae. cinereus	1	15	
	Ae. vexans	11	77	
	An. punctipennis	8	42	
	An. quadrimaculatus	4	5	
	Cx. mix	123	3087	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	34	145	
	Oc. triseriatus	7	9	
	Oc. trivittatus	10	236	
	Ps. ferox	3	12	
	Ps. howardii	1	1	
<b>Sussex</b>		<b>526</b>	<b>11407</b>	<b>9</b>
	Ae. cinereus	6	39	
	Ae. vexans	45	1461	
	An. punctipennis	37	313	
	An. quadrimaculatus	10	46	
	An. walkeri	1	20	
	Cq. perturbans	12	283	
	Cs. melanura	6	28	
	Cx. mix	169	4587	9
	Cx. pipiens	5	62	

	Cx. restuans	20	743	
	Cx. salinarius	4	79	
	Cx. territans	3	14	
	Oc. abserratus	1	3	
	Oc. aurifer	1	50	
	Oc. canadensis	15	295	
	Oc. excrucians	3	58	
	Oc. japonicus	66	513	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	39	139	
	Oc. trivittatus	40	1626	
	Ps. columbiae	1	1	
	An. barberi	1	1	
	Ps. ferox	4	55	
	Ur. sapphirina	9	61	
<b>Union</b>		<b>102</b>	<b>2700</b>	<b>8</b>
	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	
<b>Warren</b>		<b>483</b>	<b>10335</b>	<b>15</b>
	Ae. cinereus	6	192	
	Ae. vexans	37	442	1
	An. punctipennis	36	314	
	An. quadrimaculatus	12	33	
	An. walkeri	8	177	
	Cq. perturbans	3	8	
	Cx. mix	199	6761	11
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	9	222	
	Oc. cantator	5	67	
	Oc. japonicus	46	159	
	Oc. sticticus	3	14	
	Oc. stimulans	7	63	1
	Oc. triseriatus	37	80	
	Oc. trivittatus	60	1632	1
	Ps. ferox	6	41	
	Ur. sapphirina	1	2	
<b>Grand Total</b>		<b>8915</b>	<b>174198</b>	<b>366</b>