

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 16

## *Culiseta melanura* Monitor September 13 - 19, 2004

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.)	3.4	2.8	1613	72	3	Waterford (Camden Co.)	2.3	2.9	1,280	62	0
Corbin City (Atlantic Co.)	2.0	2.6	819	62	1	Centerton (Salem Co.)	4.6	6.0	3,007	95	7
Dennisville (Cape May Co.)	6.4	6.0	2,336	85	2	Turkey Swamp (Monmouth Co.)	1.6	1.2	608	58	0

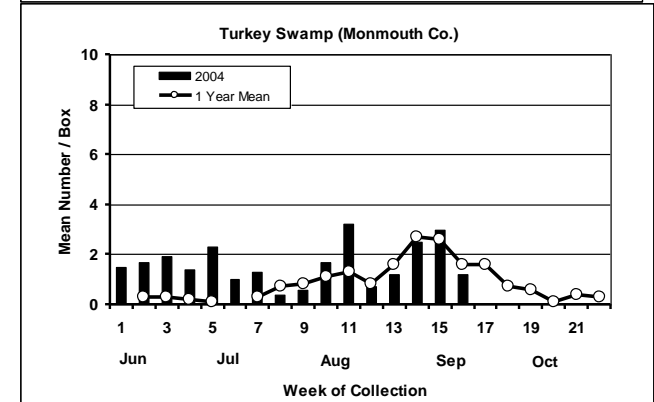
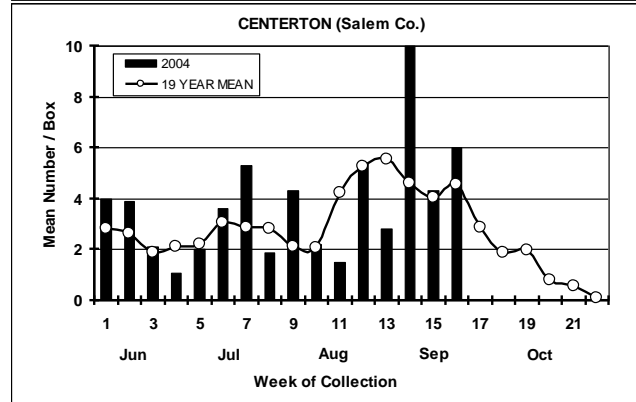
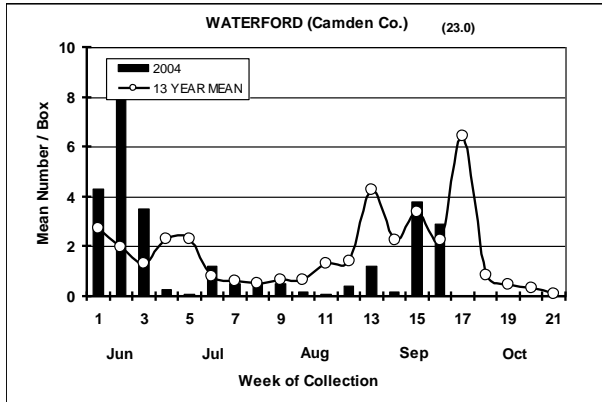
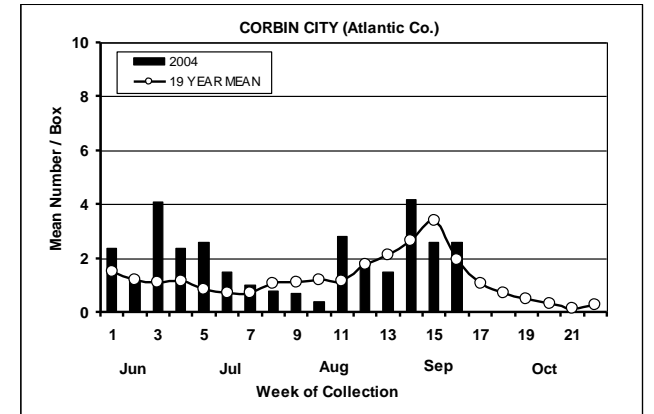
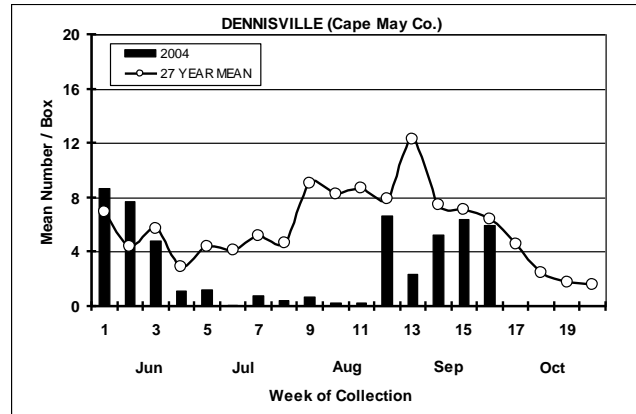
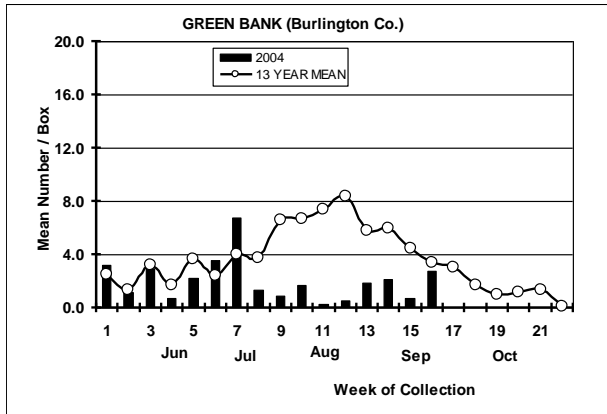
### Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>Cs. mel</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	281	228	172	1,565	604	284	155	70	220	100	509	121	899	5,208
Total Specimens	7,656	4,077	4,995	52,484	11,913	4,056	1,828	1,190	926	2,161	3,057	708	12,239	107,290
No. Positive Pools	36	6	1	157	5	0	0	0	0	0	0	0	0	205

**Remarks:** Two positive pools of *Cs. melanura* from Dennisville confirm EEE amplification at 4 different study sites in southern New Jersey at this point in the season. Newly confirmed equine cases from Camden, Gloucester and Burlington counties. show that EEE has gone beyond the mosquito/bird cycle in some areas and is actively being transmitted to mammalian hosts by bridge vector mosquito species. New Jersey has confirmed 6 equine deaths to EEE thus far this year. *Culiseta melanura* populations remain high throughout most of the inner and outer coastal plain. Approximately one month remains before cold weather terminates this year's seasonal cycle. WNV has now been documented from 19 different counties suggesting that virus activity is probably state wide. *Culex salinarius*, is the only mammal biter that has tested positive for WNV this year. Minimum infection rates in bird feeding species that function as amplification hosts include: *Culex pipiens* (4.7), *Culex restuans* (1.6) & *Culiseta melanura* (0.42).

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# Culiseta melanura Population Graphs



## Mosquito Species Submitted for West Nile Virus Testing through September 17, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	121	708	
Aedes cinereus	10	94	
Aedes vexans	284	4056	
Anopheles barberi	6	7	
Anopheles bradleyi	30	334	
Anopheles crucians	1	3	
Anopheles punctipennis	164	1025	
Anopheles quadrimaculatus	150	3810	
Anopheles walkeri	10	169	
Coquillettidia perturbans	113	1500	
Culex erraticus	31	487	
Culex pipiens	281	7656	<b>36</b>
Culex restuans	228	4077	<b>6</b>
Culex salinarius	172	4995	<b>1</b>
Culex spp.	1565	52484	<b>157</b>
Culex territans	45	183	
Culiseta melanura	604	11913	<b>5</b>
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	6	13	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	155	1828	
Ochlerotatus cantator	52	982	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	11	24	
Ochlerotatus japonicus	509	3057	
Ochlerotatus mitchellae	2	3	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	100	2161	
Ochlerotatus sticticus	16	140	
Ochlerotatus stimulans	8	38	
Ochlerotatus taeniorhynchus	17	180	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	220	926	
Ochlerotatus trivittatus	70	1190	
Orthopodomyia signifera	5	9	
Psorophora ciliata	32	268	
Psorophora columbiae	60	798	
Psorophora discolor	1	1	
Psorophora ferox	88	1833	
Psorophora howardii	4	15	
Uranotaenia sapphirina	27	289	
<b>Grand Total</b>	<b>5208</b>	<b>107290</b>	<b>205</b>

**Submissions by County through September 17, 2004**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>381</b>	<b>8108</b>	<b>9</b>
	Aedes albopictus	18	110	
	Aedes cinereus	1	35	
	Aedes vexans	28	498	
	Anopheles bradleyi	7	16	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	4	6	
	Coquillettidia perturbans	11	158	
	Culex erraticus	7	124	
	Culex pipiens	8	192	<b>1</b>
	Culex restuans	13	127	
	Culex salinarius	4	41	
	Culex spp.	83	3031	<b>8</b>
	Culex territans	3	10	
	Culiseta melanura	81	1381	
	Ochlerotatus canadensis	17	331	
	Ochlerotatus cantator	21	790	
	Ochlerotatus japonicus	13	84	
	Ochlerotatus sollicitans	29	921	
	Ochlerotatus taeniorhynchus	10	75	
	Ochlerotatus triseriatus	15	130	
	Ochlerotatus trivittatus	2	4	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	2	34	
<b>Bergen</b>		<b>232</b>	<b>12880</b>	<b>47</b>
	Aedes albopictus	3	49	
	Aedes cinereus	1	11	
	Aedes vexans	11	433	
	Coquillettidia perturbans	1	69	
	Culex pipiens	22	1171	<b>7</b>
	Culex restuans	4	37	
	Culex salinarius	26	1775	<b>1</b>
	Culex spp.	142	8776	<b>39</b>
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	3	105	
	Ochlerotatus sollicitans	10	410	
	Ochlerotatus triseriatus	6	39	
<b>Burlington</b>		<b>265</b>	<b>3991</b>	<b>9</b>
	Aedes albopictus	17	80	
	Aedes cinereus	1	3	

Aedes vexans	21	341	
Anopheles bradleyi	1	5	
Anopheles crucians	1	3	
Anopheles punctipennis	8	32	
Anopheles quadrimaculatus	9	37	
Coquillettidia perturbans	7	49	
Culex erraticus	4	15	
Culex pipiens	2	21	
Culex restuans	1	11	
Culex salinarius	2	2	
Culex spp.	35	1038	5
Culex territans	2	8	
Culiseta melanura	82	1812	4
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	4	17	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	21	56	
Ochlerotatus mitchellae	2	3	
Ochlerotatus sollicitans	6	106	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	9	37	
Ochlerotatus trivittatus	3	13	
Orthopodomyia signifera	1	2	
Psorophora ciliata	4	23	
Psorophora columbiae	7	194	
Psorophora ferox	3	12	
Psorophora howardii	1	7	
Uranotaenia sapphirina	2	18	
<b>Camden</b>	<b>191</b>	<b>2114</b>	<b>1</b>
Aedes albopictus	10	63	
Aedes cinereus	1	1	
Aedes vexans	8	71	
Anopheles barberi	1	1	
Anopheles bradleyi	4	16	
Anopheles punctipennis	16	48	
Anopheles quadrimaculatus	10	22	
Coquillettidia perturbans	7	24	
Culex pipiens	3	4	
Culex restuans	3	8	
Culex spp.	13	169	1
Culex territans	2	2	

	<i>Culiseta melanura</i>	73	1449	
	<i>Ochlerotatus atlanticus</i>	1	1	
	<i>Ochlerotatus canadensis</i>	6	13	
	<i>Ochlerotatus japonicus</i>	11	34	
	<i>Ochlerotatus triseriatus</i>	6	9	
	<i>Ochlerotatus trivittatus</i>	2	2	
	<i>Psorophora ferox</i>	9	110	
	<i>Uranotaenia sapphirina</i>	5	67	
<b>Cape May</b>		<b>414</b>	<b>8786</b>	<b>5</b>
	<i>Aedes albopictus</i>	16	67	
	<i>Aedes vexans</i>	2	10	
	<i>Anopheles bradleyi</i>	9	280	
	<i>Anopheles punctipennis</i>	4	28	
	<i>Anopheles quadrimaculatus</i>	54	3141	
	<i>Coquillettidia perturbans</i>	6	120	
	<i>Culex erraticus</i>	8	292	
	<i>Culex pipiens</i>	83	1105	<b>2</b>
	<i>Culex restuans</i>	53	325	<b>2</b>
	<i>Culex salinarius</i>	24	300	
	<i>Culex territans</i>	9	61	
	<i>Culiseta melanura</i>	114	2817	<b>1</b>
	<i>Ochlerotatus cantator</i>	4	17	
	<i>Ochlerotatus japonicus</i>	13	36	
	<i>Ochlerotatus sollicitans</i>	8	83	
	<i>Ochlerotatus taeniorhynchus</i>	4	95	
	<i>Ochlerotatus triseriatus</i>	3	9	
<b>Cumberland</b>		<b>287</b>	<b>2377</b>	<b>0</b>
	<i>Aedes albopictus</i>	1	1	
	<i>Aedes vexans</i>	55	396	
	<i>Anopheles bradleyi</i>	1	5	
	<i>Anopheles punctipennis</i>	8	13	
	<i>Anopheles quadrimaculatus</i>	2	2	
	<i>Coquillettidia perturbans</i>	4	4	
	<i>Culex erraticus</i>	2	2	
	<i>Culex pipiens</i>	19	504	
	<i>Culex restuans</i>	16	129	
	<i>Culex salinarius</i>	25	777	
	<i>Culex spp.</i>	16	42	
	<i>Culiseta melanura</i>	12	19	
	<i>Ochlerotatus canadensis</i>	60	281	
	<i>Ochlerotatus cantator</i>	13	17	
	<i>Ochlerotatus grossbecki</i>	5	6	
	<i>Ochlerotatus japonicus</i>	19	54	
	<i>Ochlerotatus sollicitans</i>	5	10	
	<i>Ochlerotatus triseriatus</i>	7	9	

	Ochlerotatus trivittatus	2	2	
	Psorophora ciliata	1	4	
	Psorophora columbiae	14	100	
<b>Essex</b>		<b>175</b>	<b>2528</b>	<b>1</b>
	Aedes albopictus	4	8	
	Aedes vexans	13	77	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	10	77	
	Culex pipiens	1	4	
	Culex spp.	80	1415	<b>1</b>
	Ochlerotatus abserratus	1	4	
	Ochlerotatus canadensis	1	4	
	Ochlerotatus japonicus	15	75	
	Ochlerotatus sticticus	8	64	
	Ochlerotatus triseriatus	7	20	
	Ochlerotatus trivittatus	4	94	
	Psorophora ferox	28	683	
<b>Gloucester</b>		<b>277</b>	<b>6020</b>	<b>37</b>
	Aedes albopictus	11	39	
	Aedes vexans	10	93	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	8	24	
	Anopheles quadrimaculatus	3	5	
	Coquillettidia perturbans	1	1	
	Culex pipiens	13	537	<b>3</b>
	Culex restuans	8	126	<b>1</b>
	Culex salinarius	7	87	
	Culex spp.	155	4814	<b>33</b>
	Culex territans	1	1	
	Culiseta melanura	7	98	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus japonicus	32	131	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	8	23	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	
<b>Hudson</b>		<b>146</b>	<b>4466</b>	<b>26</b>
	Culex spp.	146	4466	<b>26</b>
<b>Hunterdon</b>		<b>185</b>	<b>8198</b>	<b>13</b>
	Aedes vexans	2	87	
	Anopheles punctipennis	2	19	
	Anopheles quadrimaculatus	1	16	

	Culex spp.	166	7837	<b>13</b>
	Ochlerotatus japonicus	6	35	
	Ochlerotatus trivittatus	3	150	
	Psorophora ciliata	3	31	
	Psorophora columbiae	1	8	
	Psorophora ferox	1	15	
<b>Mercer</b>		<b>252</b>	<b>6083</b>	<b>21</b>
	Aedes albopictus	6	15	
	Aedes cinereus	2	22	
	Aedes vexans	13	355	
	Anopheles punctipennis	9	137	
	Anopheles quadrimaculatus	4	35	
	Coquillettidia perturbans	7	181	
	Culex pipiens	53	1672	<b>12</b>
	Culex restuans	38	748	
	Culex salinarius	6	48	
	Culex spp.	28	1423	<b>9</b>
	Culex territans	4	12	
	Culiseta melanura	8	93	
	Ochlerotatus atropalpus	1	8	
	Ochlerotatus canadensis	10	458	
	Ochlerotatus excrucians	2	3	
	Ochlerotatus japonicus	30	131	
	Ochlerotatus sticticus	1	40	
	Ochlerotatus triseriatus	9	19	
	Ochlerotatus trivittatus	4	92	
	Psorophora ciliata	1	8	
	Psorophora columbiae	2	24	
	Psorophora ferox	7	383	
	Psorophora howardii	2	7	
	Uranotaenia sapphirina	5	169	
<b>Middlesex</b>		<b>57</b>	<b>803</b>	<b>0</b>
	Aedes albopictus	2	2	
	Aedes vexans	4	35	
	Anopheles punctipennis	4	7	
	Culex pipiens	7	300	
	Culex restuans	3	24	
	Culex spp.	16	338	
	Ochlerotatus japonicus	5	21	
	Ochlerotatus sollicitans	4	50	
	Ochlerotatus triseriatus	6	9	
	Ochlerotatus trivittatus	3	14	
	Orthopodomyia signifera	1	1	
	Psorophora columbiae	2	2	



<b>Monmouth</b>	<b>508</b>	<b>7027</b>	<b>9</b>
Aedes albopictus	5	10	
Aedes vexans	33	515	
Anopheles barberi	3	3	
Anopheles punctipennis	22	178	
Anopheles quadrimaculatus	17	82	
Coquillettidia perturbans	8	17	
Culex erraticus	4	14	
Culex pipiens	34	1484	<b>8</b>
Culex restuans	24	634	<b>1</b>
Culex salinarius	31	1615	
Culex spp.	65	412	
Culex territans	7	22	
Culiseta melanura	69	589	
Ochlerotatus atlanticus	3	8	
Ochlerotatus canadensis	18	125	
Ochlerotatus cantator	5	13	
Ochlerotatus grossbecki	1	2	
Ochlerotatus japonicus	56	345	
Ochlerotatus sollicitans	15	266	
Ochlerotatus sticticus	1	3	
Ochlerotatus taeniorhynchus	2	3	
Ochlerotatus triseriatus	45	316	
Ochlerotatus trivittatus	8	29	
Orthopodomyia signifera	1	1	
Psorophora ciliata	10	59	
Psorophora columbiae	12	242	
Psorophora ferox	9	40	
<b>Morris</b>	<b>190</b>	<b>6260</b>	<b>3</b>
Aedes cinereus	1	10	
Aedes vexans	6	69	
Anopheles punctipennis	6	15	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	5	55	
Culex pipiens	2	6	
Culex restuans	1	1	
Culex spp.	99	5046	<b>3</b>
Ochlerotatus canadensis	3	87	
Ochlerotatus japonicus	36	213	
Ochlerotatus sticticus	1	13	
Ochlerotatus stimulans	2	5	
Ochlerotatus triseriatus	12	34	
Ochlerotatus trivittatus	6	271	
Psorophora ferox	9	434	
<b>Ocean</b>	<b>407</b>	<b>5130</b>	<b>8</b>

Aedes albopictus	23	252	
Aedes vexans	27	564	
Anopheles bradleyi	1	1	
Anopheles punctipennis	16	140	
Anopheles quadrimaculatus	11	32	
Coquillettidia perturbans	16	303	
Culex pipiens	17	500	3
Culex restuans	21	591	2
Culex salinarius	32	270	
Culex spp.	49	656	3
Culex territans	4	8	
Culiseta melanura	54	634	
Ochlerotatus atlanticus	1	2	
Ochlerotatus canadensis	18	340	
Ochlerotatus cantator	1	50	
Ochlerotatus grossbecki	4	10	
Ochlerotatus japonicus	33	132	
Ochlerotatus sollicitans	21	313	
Ochlerotatus sticticus	2	2	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	19	45	
Ochlerotatus trivittatus	4	8	
Orthopodomyia signifera	1	1	
Psorophora ciliata	11	139	
Psorophora columbiae	7	32	
Psorophora ferox	7	90	
Psorophora howardii	1	1	
Uranotaenia sapphirina	5	13	
<b>Passaic</b>	<b>132</b>	<b>2632</b>	<b>5</b>
Aedes albopictus	1	1	
Anopheles punctipennis	2	4	
Culex spp.	89	2289	5
Ochlerotatus japonicus	35	317	
Ochlerotatus triseriatus	5	21	
<b>Salem</b>	<b>308</b>	<b>5213</b>	<b>1</b>
Aedes albopictus	1	1	
Aedes vexans	16	75	
Anopheles bradleyi	6	10	
Anopheles punctipennis	17	125	
Anopheles quadrimaculatus	20	372	
Anopheles walkeri	3	15	
Coquillettidia perturbans	7	13	
Culex erraticus	6	40	
Culex pipiens	3	4	
Culex restuans	15	595	

	<i>Culex salinarius</i>	1	1	
	<i>Culex</i> spp.	62	563	1
	<i>Culex territans</i>	8	49	
	<i>Culiseta melanura</i>	97	3011	
	<i>Ochlerotatus canadensis</i>	1	1	
	<i>Ochlerotatus cantator</i>	4	37	
	<i>Ochlerotatus japonicus</i>	20	109	
	<i>Ochlerotatus sollicitans</i>	1	1	
	<i>Ochlerotatus triseriatus</i>	5	5	
	<i>Psorophora ciliata</i>	1	3	
	<i>Psorophora columbiae</i>	11	180	
	<i>Psorophora ferox</i>	1	1	
	<i>Uranotaenia sapphirina</i>	2	2	
<b>Somerset</b>		<b>209</b>	<b>3927</b>	<b>5</b>
	<i>Aedes vexans</i>	5	26	
	<i>Anopheles punctipennis</i>	5	10	
	<i>Anopheles quadrimaculatus</i>	1	1	
	<i>Coquillettidia perturbans</i>	2	6	
	<i>Culex pipiens</i>	5	104	
	<i>Culex restuans</i>	10	291	
	<i>Culex salinarius</i>	1	2	
	<i>Culex</i> spp.	101	2948	5
	<i>Culex territans</i>	1	1	
	<i>Culiseta melanura</i>	1	1	
	<i>Ochlerotatus canadensis</i>	5	57	
	<i>Ochlerotatus japonicus</i>	42	350	
	<i>Ochlerotatus sticticus</i>	1	5	
	<i>Ochlerotatus triseriatus</i>	19	82	
	<i>Ochlerotatus trivittatus</i>	8	40	
	<i>Psorophora ciliata</i>	1	1	
	<i>Psorophora ferox</i>	1	2	
<b>Sussex</b>		<b>318</b>	<b>4216</b>	<b>1</b>
	<i>Aedes cinereus</i>	3	12	
	<i>Aedes vexans</i>	21	390	
	<i>Anopheles barberi</i>	1	1	
	<i>Anopheles punctipennis</i>	23	225	
	<i>Anopheles quadrimaculatus</i>	10	49	
	<i>Anopheles walkeri</i>	7	154	
	<i>Coquillettidia perturbans</i>	20	422	
	<i>Culex pipiens</i>	9	48	
	<i>Culex restuans</i>	17	427	
	<i>Culex salinarius</i>	13	77	
	<i>Culex</i> spp.	69	1454	1
	<i>Culex territans</i>	4	9	
	<i>Culiseta melanura</i>	5	8	

	<i>Culiseta morsitans</i>	1	1	
	<i>Ochlerotatus canadensis</i>	9	35	
	<i>Ochlerotatus japonicus</i>	59	460	
	<i>Ochlerotatus stimulans</i>	5	29	
	<i>Ochlerotatus triseriatus</i>	20	81	
	<i>Ochlerotatus trivittatus</i>	12	312	
	<i>Psorophora columbiae</i>	1	1	
	<i>Psorophora ferox</i>	1	1	
	<i>Uranotaenia sapphirina</i>	8	20	
<b>Union</b>		<b>67</b>	<b>2133</b>	<b>4</b>
	<i>Aedes albopictus</i>	3	10	
	<i>Culex</i> spp.	48	2047	<b>4</b>
	<i>Ochlerotatus japonicus</i>	11	70	
	<i>Ochlerotatus triseriatus</i>	3	4	
	<i>Ochlerotatus trivittatus</i>	1	1	
	<i>Psorophora discolor</i>	1	1	
<b>Warren</b>		<b>207</b>	<b>4398</b>	<b>0</b>
	<i>Aedes vexans</i>	9	21	
	<i>Anopheles barberi</i>	1	2	
	<i>Anopheles punctipennis</i>	10	13	
	<i>Anopheles quadrimaculatus</i>	1	7	
	<i>Coquillettidia perturbans</i>	1	1	
	<i>Culex restuans</i>	1	3	
	<i>Culex</i> spp.	103	3720	
	<i>Ochlerotatus canadensis</i>	1	75	
	<i>Ochlerotatus cantator</i>	2	55	
	<i>Ochlerotatus excrucians</i>	1	1	
	<i>Ochlerotatus japonicus</i>	49	299	
	<i>Ochlerotatus punctor</i>	1	4	
	<i>Ochlerotatus triseriatus</i>	16	34	
	<i>Ochlerotatus trivittatus</i>	8	158	
	<i>Psorophora ferox</i>	3	5	
<b>Grand Total</b>		<b>5208</b>	<b>107290</b>	<b>205</b>

