

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 17

## *Culiseta melanura* Monitor September 20 - 26, 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.)	3.0	1.0	1,664	76	3	Waterford (Camden Co.)	6.4	1.0	1,430	66	1
Corbin City (Atlantic Co.)	1.1	7.1	997	67	1	Centerton (Salem Co.)	2.9	5.2	3,269	102	7
Dennisville (Cape May Co.)	4.5	2.9	2,409	89	3	Turkey Swamp (Monmouth Co.)	1.6	0.7	623	61	0

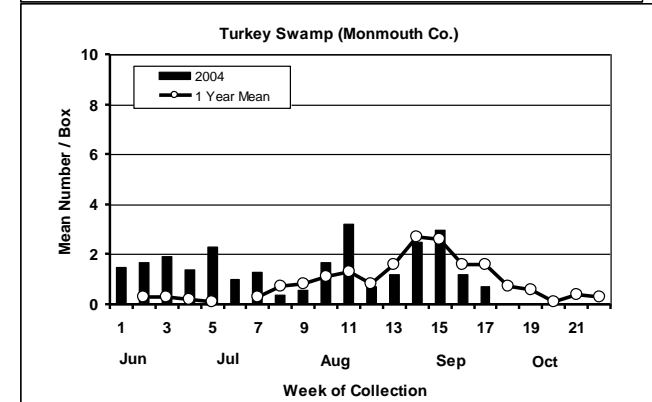
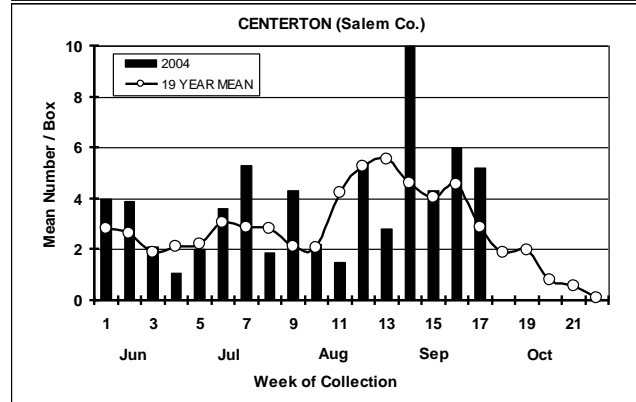
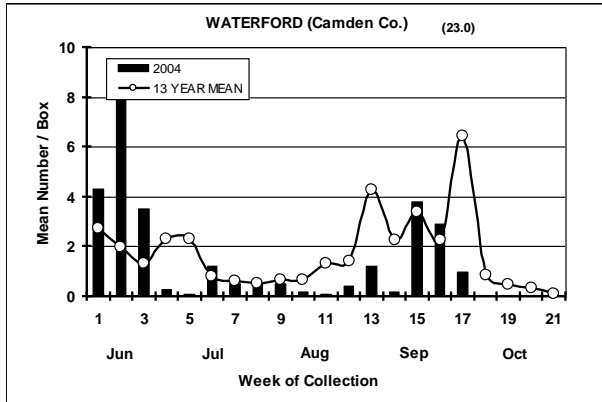
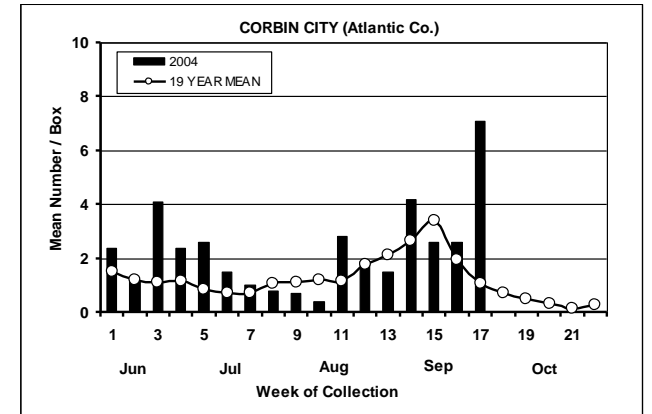
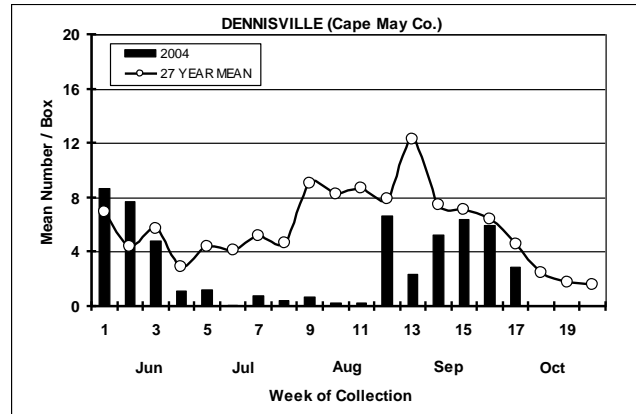
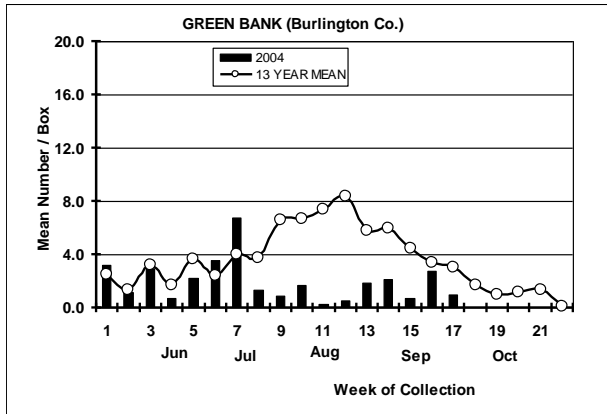
### Collections submitted to PHEL for West Nile Virus testing

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	313	248	179	1,688	648	309	162	75	242	104	551	136	963	5,618
Total Specimens	8,581	4,360	5,099	56,399	12,633	4,306	1,880	1,236	993	2,283	3,258	772	12,763	114,563
No. Positive Pools	38	7	1	180	5	0	0	0	0	0	0	0	0	231

**Remarks:** EEE remains very much in evidence in southern New Jersey. A recent positive from *Cs. melanura* at the Waterford site in Camden Co. now documents virus activity at 5 of the 6 study sites we have been monitoring since late May. Confirmed horse cases from Williamstown in Gloucester Co. and Medford in Burlington Co. bring this year's equine total to 6. The equine case from Medford was a 10 month-old colt that tested positive for WNV as well as EEE. *Culiseta melanura* populations appear to be declining at all but the Corbin City and Centerton sites. Last weeks mean collection of 7.1 mosquitoes per box at Corbin City, however, represents the 2<sup>nd</sup> highest on record in that site's 20 year history. Surveillance data show that WNV is still restricted to bird feeding mosquitoes. Reasons for the paucity of WNV in bridge vectors remains a mystery. This year's distribution of WNV equine cases supports surveillance findings regarding a lack of virus in bridge vectors this year. The Medford horse was only the 5<sup>th</sup> confirmed for WNV this season, far short of the number normally seen at this time of year.

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## *Culiseta melanura* Population Graphs



A total of 15 pools of *Cs. melanura* have tested positive for EEE to date. Most of the positives were obtained shortly after resting box counts registered population increases. Positives for the Green Bank site were obtained from collections made during weeks 7, 10 & 12. Virus next appeared at Centerton with positives from collections made during weeks 8, 9, 10, 11, 13 & 14 (2 positives). Virus at Corbin City was obtained from a single collection made in week 14. Positives from the Dennisville site came from weeks 15 (2 positives) & 16. EEE virus appeared last at Waterford with a single positive from week 16.

**Mosquito Species Submitted for West Nile Virus Testing through  
September 24, 2004**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Aedes albopictus	136	772	
Aedes cinereus	11	96	
Aedes vexans	309	4306	
Anopheles barberi	7	8	
Anopheles bradleyi	35	377	
Anopheles crucians	1	3	
Anopheles punctipennis	174	1086	
Anopheles quadrimaculatus	161	4015	
Anopheles walkeri	10	169	
Coquillettidia perturbans	115	1503	
Culex erraticus	37	510	
Culex pipiens	313	8581	<b>38</b>
Culex restuans	248	4360	<b>7</b>
Culex salinarius	179	5099	<b>1</b>
Culex spp.	1688	56399	<b>180</b>
Culex territans	53	225	
Culiseta melanura	648	12633	<b>5</b>
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	6	13	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	162	1880	
Ochlerotatus cantator	53	983	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	13	26	
Ochlerotatus japonicus	551	3258	
Ochlerotatus mitchellae	3	4	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	104	2283	
Ochlerotatus sticticus	16	140	
Ochlerotatus stimulans	8	38	
Ochlerotatus taeniorhynchus	19	197	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	242	993	
Ochlerotatus trivittatus	75	1236	
Orthopodomyia signifera	6	10	
Psorophora ciliata	34	270	
Psorophora columbiae	60	798	
Psorophora discolor	1	1	
Psorophora ferox	89	1834	
Psorophora howardii	4	15	
Uranotaenia sapphirina	37	408	
<b>Grand Total</b>	<b>5618</b>	<b>114563</b>	<b>231</b>

Submissions by County through September 24, 2004

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>404</b>	<b>8551</b>	<b>9</b>
	Aedes albopictus	18	110	
	Aedes cinereus	1	35	
	Aedes vexans	30	555	
	Anopheles bradleyi	9	25	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	4	6	
	Coquillettidia perturbans	11	158	
	Culex erraticus	8	127	
	Culex pipiens	8	192	<b>1</b>
	Culex restuans	14	134	
	Culex salinarius	4	41	
	Culex spp.	86	3115	<b>8</b>
	Culex territans	4	21	
	Culiseta melanura	87	1554	
	Ochlerotatus canadensis	17	331	
	Ochlerotatus cantator	22	791	
	Ochlerotatus japonicus	15	90	
	Ochlerotatus sollicitans	31	1009	
	Ochlerotatus taeniorhynchus	11	78	
	Ochlerotatus triseriatus	16	131	
	Ochlerotatus trivittatus	2	4	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	2	34	
<b>Bergen</b>		<b>247</b>	<b>13950</b>	<b>53</b>
	Aedes albopictus	3	49	
	Aedes cinereus	1	11	
	Aedes vexans	12	508	
	Coquillettidia perturbans	1	69	
	Culex pipiens	22	1171	<b>7</b>
	Culex restuans	4	37	
	Culex salinarius	27	1795	<b>1</b>
	Culex spp.	155	9751	<b>45</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>285</b>	<b>4114</b>	<b>10</b>
Aedes albopictus	18	97	
Aedes cinereus	1	3	
Aedes vexans	22	345	
Anopheles barberi	1	1	
Anopheles bradleyi	1	5	
Anopheles crucians	1	3	
Anopheles punctipennis	9	34	
Anopheles quadrimaculatus	10	41	
Coquillettidia perturbans	7	49	
Culex erraticus	4	15	
Culex pipiens	3	24	
Culex restuans	1	11	
Culex salinarius	2	2	
Culex spp.	36	1039	<b>6</b>
Culex territans	2	8	
Culiseta melanura	89	1885	<b>4</b>
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	5	20	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	24	65	
Ochlerotatus mitchellae	3	4	
Ochlerotatus sollicitans	6	106	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	10	42	
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>218</b>	<b>2233</b>	<b>1</b>
Aedes albopictus	12	68	
Aedes cinereus	1	1	
Aedes vexans	10	74	
Anopheles barberi	1	1	
Anopheles bradleyi	4	16	
Anopheles punctipennis	17	50	
Anopheles quadrimaculatus	11	24	

	Coquillettidia perturbans	8	26	
	Culex pipiens	5	6	
	Culex restuans	4	11	
	Culex spp.	15	189	1
	Culex territans	4	8	
	Culiseta melanura	79	1506	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus canadensis	7	17	
	Ochlerotatus japonicus	13	39	
	Ochlerotatus triseriatus	7	11	
	Ochlerotatus trivittatus	3	3	
	Psorophora ferox	10	111	
	Uranotaenia sapphirina	6	71	
<b>Cape May</b>		<b>440</b>	<b>9158</b>	<b>5</b>
	Aedes albopictus	18	76	
	Aedes vexans	2	10	
	Anopheles bradleyi	10	302	
	Anopheles punctipennis	4	28	
	Anopheles quadrimaculatus	56	3168	
	Coquillettidia perturbans	6	120	
	Culex erraticus	9	296	
	Culex pipiens	92	1300	2
	Culex restuans	55	331	2
	Culex salinarius	24	300	
	Culex territans	10	63	
	Culiseta melanura	120	2912	1
	Ochlerotatus cantator	4	17	
	Ochlerotatus japonicus	15	48	
	Ochlerotatus sollicitans	8	83	
	Ochlerotatus taeniorhynchus	4	95	
	Ochlerotatus triseriatus	3	9	
<b>Cumberland</b>		<b>302</b>	<b>2428</b>	<b>1</b>
	Aedes albopictus	1	1	
	Aedes vexans	60	416	
	Anopheles bradleyi	2	6	
	Anopheles punctipennis	8	13	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	4	4	
	Culex erraticus	2	2	
	Culex pipiens	19	504	1
	Culex restuans	16	129	
	Culex salinarius	25	777	
	Culex spp.	17	43	
	Culiseta melanura	14	21	
	Ochlerotatus canadensis	64	306	

	Ochlerotatus cantator	13	17	
	Ochlerotatus grossbecki	7	8	
	Ochlerotatus japonicus	19	54	
	Ochlerotatus sollicitans	5	10	
	Ochlerotatus triseriatus	7	9	
	Ochlerotatus trivittatus	2	2	
	Psorophora ciliata	1	4	
	Psorophora columbiae	14	100	
<b>Essex</b>		<b>188</b>	<b>2573</b>	<b>1</b>
	Aedes albopictus	6	18	
	Aedes vexans	13	77	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	10	77	
	Culex pipiens	1	4	
	Culex spp.	86	1444	<b>1</b>
	Ochlerotatus abserratus	1	4	
	Ochlerotatus canadensis	1	4	
	Ochlerotatus japonicus	18	78	
	Ochlerotatus sticticus	8	64	
	Ochlerotatus triseriatus	9	23	
	Ochlerotatus trivittatus	4	94	
	Psorophora ferox	28	683	
<b>Gloucester</b>		<b>297</b>	<b>6255</b>	<b>38</b>
	Aedes albopictus	14	53	
	Aedes vexans	11	96	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	9	26	
	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.	163	5016	<b>34</b>
	Culex territans	1	1	
	Culiseta melanura	8	101	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus japonicus	37	141	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus triseriatus	9	24	
	Psorophora columbiae	3	15	
	Psorophora ferox	7	23	

<b>Hudson</b>	<b>159</b>	<b>4686</b>	<b>27</b>
Culex spp.	159	4686	<b>27</b>
<b>Hunterdon</b>	<b>200</b>	<b>8913</b>	<b>14</b>
Aedes vexans	2	87	
Anopheles punctipennis	2	19	
Anopheles quadrimaculatus	1	16	
Culex spp.	181	8552	<b>14</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>325</b>	<b>7851</b>	<b>30</b>
Aedes albopictus	8	18	
Aedes cinereus	2	22	
Aedes vexans	17	361	
Anopheles punctipennis	11	152	
Anopheles quadrimaculatus	6	41	
Coquillettidia perturbans	7	181	
Culex erraticus	1	2	
Culex pipiens	70	2350	<b>12</b>
Culex restuans	50	939	<b>1</b>
Culex salinarius	7	54	
Culex spp.	43	2139	<b>17</b>
Culex territans	6	14	
Culiseta melanura	11	112	
Ochlerotatus atropalpus	1	8	
Ochlerotatus canadensis	10	458	
Ochlerotatus excrucians	2	3	
Ochlerotatus japonicus	34	139	
Ochlerotatus sticticus	1	40	
Ochlerotatus triseriatus	13	36	
Ochlerotatus trivittatus	4	92	
Orthopodomyia signifera	1	1	
Psorophora ciliata	1	8	
Psorophora columbiae	2	24	
Psorophora ferox	7	383	
Psorophora howardii	2	7	
Uranotaenia sapphirina	8	267	



<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>534</b>	<b>7219</b>	<b>10</b>
Aedes albopictus	5	10	
Aedes vexans	35	529	
Anopheles barberi	3	3	
Anopheles punctipennis	24	187	
Anopheles quadrimaculatus	18	83	
Coquillettia perturbans	8	17	
Culex erraticus	5	15	
Culex pipiens	35	1501	<b>9</b>
Culex restuans	25	644	<b>1</b>
Culex salinarius	32	1661	
Culex spp.	69	430	
Culex territans	8	28	
Culiseta melanura	72	604	
Ochlerotatus atlanticus	3	8	
Ochlerotatus canadensis	18	125	
Ochlerotatus cantator	5	13	
Ochlerotatus grossbecki	1	2	
Ochlerotatus japonicus	60	381	
Ochlerotatus sollicitans	16	280	
Ochlerotatus sticticus	1	3	
Ochlerotatus taeniorhynchus	2	3	
Ochlerotatus triseriatus	46	317	
Ochlerotatus trivittatus	9	30	
Orthopodomyia signifera	1	1	
Psorophora ciliata	11	60	
Psorophora columbiae	12	242	
Psorophora ferox	9	40	
Uranotaenia sapphirina	1	2	

<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>431</b>	<b>5335</b>	<b>8</b>
Aedes albopictus	25	256	
Aedes vexans	30	598	
Anopheles bradleyi	1	1	
Anopheles punctipennis	17	141	
Anopheles quadrimaculatus	11	32	
Coquillettidia perturbans	16	303	
Culex pipiens	18	525	<b>3</b>
Culex restuans	22	618	<b>2</b>
Culex salinarius	35	298	
Culex spp.	52	673	<b>3</b>
Culex territans	4	8	
Culiseta melanura	56	651	
Ochlerotatus atlanticus	1	2	
Ochlerotatus canadensis	18	340	
Ochlerotatus cantator	1	50	
Ochlerotatus grossbecki	4	10	
Ochlerotatus japonicus	36	145	
Ochlerotatus sollicitans	22	333	
Ochlerotatus sticticus	2	2	
Ochlerotatus taeniorhynchus	1	14	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	20	47	
Ochlerotatus trivittatus	4	8	
Orthopodomyia signifera	1	1	
Psorophora ciliata	12	140	
Psorophora columbiae	7	32	
Psorophora ferox	7	90	
Psorophora howardii	1	1	

	<i>Uranotaenia sapphirina</i>	6	15	
<b>Passaic</b>		<b>144</b>	<b>2927</b>	<b>7</b>
	<i>Aedes albopictus</i>	1	1	
	<i>Anopheles punctipennis</i>	2	4	
	<i>Culex</i> spp.	98	2545	<b>7</b>
	<i>Ochlerotatus japonicus</i>	37	350	
	<i>Ochlerotatus triseriatus</i>	6	27	
<b>Salem</b>		<b>338</b>	<b>5784</b>	<b>3</b>
	<i>Aedes albopictus</i>	1	1	
	<i>Aedes vexans</i>	17	76	
	<i>Anopheles bradleyi</i>	7	21	
	<i>Anopheles punctipennis</i>	18	154	
	<i>Anopheles quadrimaculatus</i>	23	536	
	<i>Anopheles walkeri</i>	3	15	
	<i>Coquillettidia perturbans</i>	7	13	
	<i>Culex erraticus</i>	8	53	
	<i>Culex pipiens</i>	3	4	
	<i>Culex restuans</i>	16	597	
	<i>Culex salinarius</i>	1	1	
	<i>Culex</i> spp.	68	622	<b>3</b>
	<i>Culex territans</i>	9	64	
	<i>Culiseta melanura</i>	104	3273	
	<i>Ochlerotatus canadensis</i>	1	1	
	<i>Ochlerotatus cantator</i>	4	37	
	<i>Ochlerotatus japonicus</i>	22	111	
	<i>Ochlerotatus sollicitans</i>	1	1	
	<i>Ochlerotatus triseriatus</i>	7	7	
	<i>Psorophora ciliata</i>	1	3	
	<i>Psorophora columbiae</i>	11	180	
	<i>Psorophora ferox</i>	1	1	
	<i>Uranotaenia sapphirina</i>	5	13	
<b>Somerset</b>		<b>222</b>	<b>4213</b>	<b>5</b>
	<i>Aedes vexans</i>	6	36	
	<i>Anopheles punctipennis</i>	5	10	
	<i>Anopheles quadrimaculatus</i>	1	1	
	<i>Coquillettidia perturbans</i>	2	6	
	<i>Culex pipiens</i>	6	109	
	<i>Culex restuans</i>	10	291	
	<i>Culex salinarius</i>	1	2	
	<i>Culex</i> spp.	109	3196	<b>5</b>
	<i>Culex territans</i>	1	1	
	<i>Culiseta melanura</i>	1	1	
	<i>Ochlerotatus canadensis</i>	5	57	
	<i>Ochlerotatus japonicus</i>	44	366	

	Ochlerotatus sticticus	1	5	
	Ochlerotatus triseriatus	20	89	
	Ochlerotatus trivittatus	8	40	
	Psorophora ciliata	1	1	
	Psorophora ferox	1	2	
<b>Sussex</b>		<b>345</b>	<b>4517</b>	<b>1</b>
	Aedes cinereus	4	14	
	Aedes vexans	22	412	
	Anopheles barberi	1	1	
	Anopheles punctipennis	24	226	
	Anopheles quadrimaculatus	11	50	
	Anopheles walkeri	7	154	
	Coquillettidia perturbans	20	422	
	Culex pipiens	9	48	
	Culex restuans	18	464	
	Culex salinarius	14	81	
	Culex spp.	77	1568	<b>1</b>
	Culex territans	4	9	
	Culiseta melanura	6	12	
	Culiseta morsitans	1	1	
	Ochlerotatus canadensis	10	55	
	Ochlerotatus japonicus	65	505	
	Ochlerotatus stimulans	5	29	
	Ochlerotatus triseriatus	23	96	
	Ochlerotatus trivittatus	13	346	
	Psorophora columbiae	1	1	
	Psorophora ferox	1	1	
	Uranotaenia sapphirina	9	22	
<b>Union</b>		<b>70</b>	<b>2220</b>	<b>5</b>
	Aedes albopictus	4	12	
	Culex spp.	50	2132	<b>5</b>
	Ochlerotatus japonicus	11	70	
	Ochlerotatus triseriatus	3	4	
	Ochlerotatus trivittatus	1	1	
	Psorophora discolor	1	1	
<b>Warren</b>		<b>222</b>	<b>4573</b>	<b>0</b>
	Aedes vexans	10	22	
	Anopheles barberi	1	2	
	Anopheles punctipennis	10	13	
	Anopheles quadrimaculatus	1	7	
	Coquillettidia perturbans	2	2	
	Culex restuans	1	3	
	Culex spp.	109	3875	
	Ochlerotatus canadensis	1	75	

Ochlerotatus cantator	2	55	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	51	302	
Ochlerotatus punctor	1	4	
Ochlerotatus triseriatus	19	39	
Ochlerotatus trivittatus	10	168	
Psorophora ferox	3	5	
<b>Grand Total</b>	<b>5618</b>	<b>114563</b>	<b>231</b>