

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 16

## *Culiseta melanura* Monitor

September 16 - 22, 2006

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	1.7	595	53	1	Waterford (Camden Co.)	2.2	0.2	155	26	0
Corbin City (Atlantic Co.)	2.0	0.3	380	56	0	Centerton (Salem Co.)	4.5	3.4	743	55	0
Dennisville (Cape May Co.)	6.3	0.8	1852	72	0	Turkey Swamp (Monmouth Co.)	1.4	0.1	489	58	0

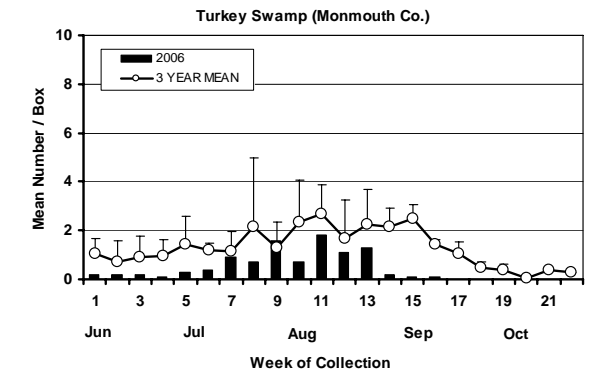
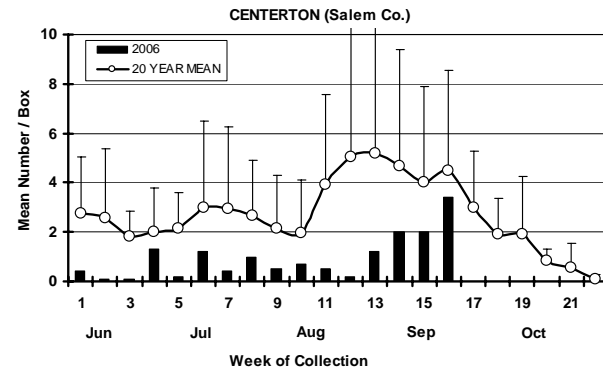
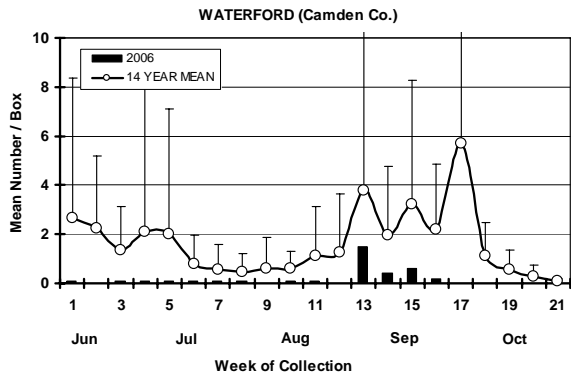
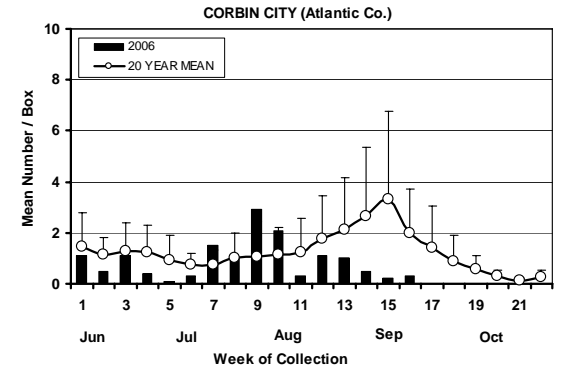
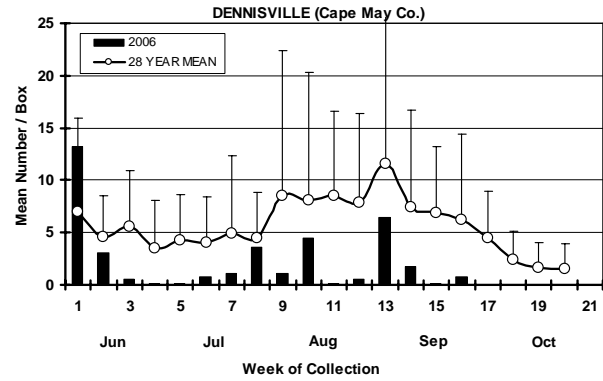
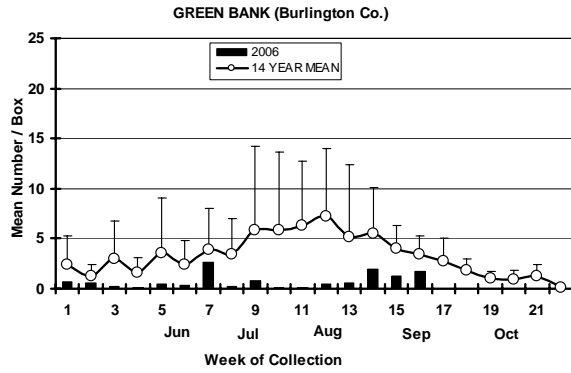
### Collections submitted to PHEL for West Nile Virus testing

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	305	119	128	1,655	345	135	21	55	119	29	246	325	539	4,021
Total Specimens	7,792	1,871	4,337	65,969	4,430	2,347	258	1,083	418	498	1,133	2,414	6,709	99,259
No. Positive Pools	49	6	0	172	1	0	0	0	0	0	0	2	0	230

**Remarks:** *Culiseta melanura* populations remain below long-term averages for this time of year at all of the sites being monitored for EEE in New Jersey. Resting box counts at Centerton, however, have increased steadily during the month of September and current populations would be capable of amplifying any late season virus introduced by migrating birds. The single positive pool obtained from the Green Bank site, together with the equine case that quickly followed, represents the only indication of EEE activity in New Jersey, to date. *Culex* mosquitoes have tested positive for WNV in 19 of New Jersey's 21 counties this season. Infection rates (measured as positives per 1000 bird-feeding *Culex* tested) are highest in the counties of Mercer (8.50), Union (8.40), Hudson (5.34), Passaic (4.10), Essex (3.21), Bergen (3.78) and Middlesex (2.79). Newly emerged *Culex pipiens* and *Cx. restuans* are entering hibernaculae as nulliparous females at this time of year. Gravid trap collections in September and October include a high percentage of physiologically "old", parous females which increases the chances for virus in the samples.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-16-06 Supported by State funds and funding by the NJ State Mosquito Control Commission.
---

# Culiseta melanura Population Graphs



## Mosquito Species Submitted for West Nile Virus Testing through September 22, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	325	2414	<b>2</b>
<i>Aedes cinereus</i>	1	1	
<i>Aedes vexans</i>	135	2347	
<i>Anopheles barberi</i>	4	4	
<i>Anopheles bradleyi</i>	43	370	
<i>Anopheles crucians</i>	1	1	
<i>Anopheles punctipennis</i>	76	316	
<i>Anopheles quadrimaculatus</i>	95	2700	
<i>Anopheles walkeri</i>	3	20	
<i>Coquillettidia perturbans</i>	53	240	
<i>Culex erraticus</i>	70	808	
<i>Culex pipiens</i>	305	7792	<b>49</b>
<i>Culex restuans</i>	119	1871	<b>6</b>
<i>Culex salinarius</i>	128	4337	
<i>Culex spp.</i>	1655	65969	<b>172</b>
<i>Culex territans</i>	27	67	
<i>Culiseta melanura</i>	345	4430	<b>1</b>
<i>Ochlerotatus atlanticus</i>	26	308	
<i>Ochlerotatus atropalpus</i>	1	2	
<i>Ochlerotatus canadensis</i>	21	258	
<i>Ochlerotatus cantator</i>	11	42	
<i>Ochlerotatus japonicus</i>	246	1133	
<i>Ochlerotatus punctor</i>	1	1	
<i>Ochlerotatus sollicitans</i>	29	498	
<i>Ochlerotatus sticticus</i>	12	211	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	20	172	
<i>Ochlerotatus triseriatus</i>	119	418	
<i>Ochlerotatus trivittatus</i>	55	1083	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	3	5	
<i>Psorophora columbiae</i>	29	412	
<i>Psorophora ferox</i>	41	581	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	17	439	
<b>Grand Total</b>	<b>4021</b>	<b>99259</b>	<b>230</b>

Submission by County through September 22, 2006

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>229</b>	<b>4612</b>	<b>0</b>
	Aedes albopictus	17	186	
	Aedes vexans	20	571	
	Anopheles bradleyi	7	81	
	Anopheles punctipennis	2	6	
	Coquillettidia perturbans	5	35	
	Culex erraticus	14	594	
	Culex restuans	3	10	
	Culex salinarius	11	230	
	Culex spp.	49	1836	
	Culex territans	3	5	
	Culiseta melanura	60	404	
	Ochlerotatus atlanticus	6	131	
	Ochlerotatus canadensis	5	63	
	Ochlerotatus cantator	3	31	
	Ochlerotatus japonicus	3	4	
	Ochlerotatus sollicitans	8	242	
	Ochlerotatus taeniorhynchus	5	67	
	Ochlerotatus triseriatus	3	5	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	50	
	Psorophora ferox	2	56	
	Psorophora howardii	1	3	
<b>Bergen</b>		<b>348</b>	<b>18915</b>	<b>55</b>
	Aedes albopictus	21	262	<b>1</b>
	Aedes cinereus	1	1	
	Aedes vexans	23	759	
	Anopheles punctipennis	5	9	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	5	12	
	Culex erraticus	1	2	
	Culex pipiens	43	2191	<b>17</b>
	Culex restuans	13	240	<b>3</b>
	Culex salinarius	55	3361	
	Culex spp.	161	11875	<b>34</b>
	Culex territans	1	1	
	Ochlerotatus japonicus	1	2	
	Ochlerotatus triseriatus	3	6	
	Ochlerotatus trivittatus	4	6	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	6	179	
	Psorophora ferox	1	2	
	Uranotaenia sapphirina	1	2	

<b>Burlington</b>	<b>190</b>	<b>1291</b>	<b>2</b>
Aedes albopictus	27	121	
Aedes vexans	8	46	
Anopheles barberi	1	1	
Anopheles bradleyi	6	67	
Anopheles crucians	1	1	
Anopheles punctipennis	2	4	
Anopheles quadrimaculatus	5	7	
Coquillettidia perturbans	4	7	
Culex erraticus	9	35	
Culex pipiens	5	13	
Culex salinarius	3	13	
Culex spp.	20	181	<b>2</b>
Culex territans	1	3	
Culiseta melanura	59	669	
Ochlerotatus atlanticus	5	11	
Ochlerotatus canadensis	7	33	
Ochlerotatus cantator	3	6	
Ochlerotatus japonicus	6	28	
Ochlerotatus sollicitans	4	9	
Ochlerotatus stimulans	2	2	
Ochlerotatus taeniorhynchus	2	7	
Ochlerotatus triseriatus	3	3	
Ochlerotatus trivittatus	2	6	
Psorophora columbiae	1	9	
Psorophora ferox	4	9	
<b>Camden</b>	<b>112</b>	<b>1682</b>	<b>3</b>
Aedes albopictus	14	48	
Aedes vexans	4	69	
Anopheles punctipennis	6	9	
Anopheles quadrimaculatus	7	12	
Coquillettidia perturbans	4	4	
Culex erraticus	1	3	
Culex restuans	2	2	
Culex spp.	39	1354	<b>3</b>
Culiseta melanura	26	155	
Ochlerotatus japonicus	5	9	
Ochlerotatus triseriatus	1	5	
Ochlerotatus trivittatus	1	3	
Psorophora ferox	1	8	
Uranotaenia sapphirina	1	1	
<b>Cape May</b>	<b>192</b>	<b>4830</b>	<b>1</b>
Aedes albopictus	10	77	
Aedes vexans	1	8	

Anopheles bradleyi	14	174	
Anopheles punctipennis	2	3	
Anopheles quadrimaculatus	45	2383	
Coquillettidia perturbans	2	15	
Culex erraticus	8	53	
Culex pipiens	7	41	
Culex restuans	13	80	
Culex salinarius	7	30	
Culex territans	1	4	
Culiseta melanura	78	1958	<b>1</b>
Ochlerotatus atlanticus	1	1	
Ochlerotatus cantator	2	2	
Psorophora ferox	1	1	
<b>Cumberland</b>	<b>94</b>	<b>737</b>	<b>0</b>
Aedes albopictus	2	2	
Aedes vexans	2	3	
Anopheles bradleyi	9	31	
Anopheles quadrimaculatus	3	4	
Coquillettidia perturbans	7	14	
Culex erraticus	11	24	
Culex spp.	30	431	
Ochlerotatus atlanticus	11	151	
Ochlerotatus canadensis	1	1	
Ochlerotatus sollicitans	3	5	
Ochlerotatus taeniorhynchus	9	59	
Ochlerotatus triseriatus	1	1	
Psorophora ferox	5	11	
<b>Essex</b>	<b>100</b>	<b>1870</b>	<b>6</b>
Aedes albopictus	12	50	
Aedes vexans	9	72	
Anopheles punctipennis	2	2	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	1	4	
Culex spp.	49	1500	<b>6</b>
Culiseta melanura	1	2	
Ochlerotatus japonicus	11	70	
Ochlerotatus sollicitans	1	1	
Ochlerotatus sticticus	3	19	
Ochlerotatus triseriatus	3	4	
Ochlerotatus trivittatus	1	3	
Psorophora ferox	5	141	
Uranotaenia sapphirina	1	1	
<b>Gloucester</b>	<b>206</b>	<b>2364</b>	<b>2</b>
Aedes albopictus	14	44	

	<i>Aedes vexans</i>	1	2	
	<i>Anopheles bradleyi</i>	2	10	
	<i>Anopheles punctipennis</i>	1	1	
	<i>Anopheles quadrimaculatus</i>	1	1	
	<i>Anopheles walkeri</i>	2	9	
	<i>Coquillettidia perturbans</i>	4	14	
	<i>Culex pipiens</i>	152	2228	<b>2</b>
	<i>Culex restuans</i>	1	2	
	<i>Culex salinarius</i>	1	2	
	<i>Culex territans</i>	1	1	
	<i>Culiseta melanura</i>	2	3	
	<i>Ochlerotatus canadensis</i>	2	4	
	<i>Ochlerotatus japonicus</i>	19	25	
	<i>Psorophora ciliata</i>	1	1	
	<i>Psorophora columbiae</i>	1	16	
	<i>Psorophora ferox</i>	1	1	
<b>Hudson</b>		<b>233</b>	<b>8867</b>	<b>45</b>
	<i>Aedes albopictus</i>	9	73	
	<i>Aedes vexans</i>	1	6	
	<i>Coquillettidia perturbans</i>	2	20	
	<i>Culex pipiens</i>	20	1233	<b>8</b>
	<i>Culex salinarius</i>	6	340	
	<i>Culex spp.</i>	195	7195	<b>37</b>
<b>Hunterdon</b>		<b>231</b>	<b>8175</b>	<b>12</b>
	<i>Aedes albopictus</i>	1	2	
	<i>Aedes vexans</i>	2	8	
	<i>Anopheles barberi</i>	1	1	
	<i>Anopheles punctipennis</i>	9	108	
	<i>Anopheles quadrimaculatus</i>	4	13	
	<i>Culex erraticus</i>	1	1	
	<i>Culex pipiens</i>	4	42	
	<i>Culex restuans</i>	14	476	<b>1</b>
	<i>Culex salinarius</i>	3	3	
	<i>Culex spp.</i>	169	7432	<b>11</b>
	<i>Culex territans</i>	2	2	
	<i>Ochlerotatus japonicus</i>	8	48	
	<i>Ochlerotatus sticticus</i>	1	1	
	<i>Ochlerotatus triseriatus</i>	4	4	
	<i>Ochlerotatus trivittatus</i>	5	22	
	<i>Psorophora columbiae</i>	1	10	
	<i>Uranotaenia sapphirina</i>	2	2	
<b>Mercer</b>		<b>305</b>	<b>5215</b>	<b>34</b>
	<i>Aedes albopictus</i>	77	528	<b>1</b>
	<i>Aedes vexans</i>	13	158	

Anopheles bradleyi	1	2	
Anopheles punctipennis	3	5	
Anopheles quadrimaculatus	2	10	
Coquillettidia perturbans	2	3	
Culex erraticus	6	31	
Culex pipiens	57	1745	<b>22</b>
Culex restuans	34	679	<b>2</b>
Culex salinarius	9	76	
Culex spp.	33	1463	<b>9</b>
Culex territans	2	2	
Ochlerotatus atropalpus	1	2	
Ochlerotatus canadensis	3	147	
Ochlerotatus japonicus	22	46	
Ochlerotatus sticticus	1	3	
Ochlerotatus triseriatus	13	30	
Ochlerotatus trivittatus	8	28	
Psorophora columbiae	8	43	
Psorophora ferox	7	14	
Uranotaenia sapphirina	3	200	
<b>Middlesex</b>	<b>195</b>	<b>7325</b>	<b>20</b>
Aedes albopictus	13	85	
Anopheles punctipennis	1	1	
Culex pipiens	1	1	
Culex restuans	1	2	
Culex spp.	165	7175	<b>20</b>
Ochlerotatus japonicus	14	61	
<b>Monmouth</b>	<b>285</b>	<b>2389</b>	<b>2</b>
Aedes albopictus	38	171	
Aedes vexans	15	51	
Anopheles punctipennis	10	19	
Anopheles quadrimaculatus	5	6	
Coquillettidia perturbans	2	3	
Culex erraticus	2	6	
Culex pipiens	1	1	
Culex restuans	6	16	
Culex spp.	78	1149	
Culex territans	9	37	<b>2</b>
Culiseta melanura	58	489	
Ochlerotatus atlanticus	2	13	
Ochlerotatus canadensis	3	10	
Ochlerotatus cantator	1	1	
Ochlerotatus japonicus	16	100	
Ochlerotatus sollicitans	12	237	
Ochlerotatus taeniorhynchus	4	39	
Ochlerotatus triseriatus	15	28	



	Ochlerotatus trivittatus	4	6	
	Psorophora columbiae	2	2	
	Psorophora ferox	2	5	
<b>Morris</b>		<b>153</b>	<b>2508</b>	<b>5</b>
	Anopheles punctipennis	2	3	
	Coquillettidia perturbans	1	1	
	Culex restuans	1	13	
	Culex spp.	95	2179	<b>5</b>
	Ochlerotatus japonicus	29	188	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	22	118	
	Ochlerotatus trivittatus	1	1	
	Uranotaenia sapphirina	1	4	
<b>Ocean</b>		<b>165</b>	<b>1480</b>	<b>1</b>
	Aedes albopictus	53	706	
	Aedes vexans	4	7	
	Coquillettidia perturbans	1	1	
	Culex erraticus	1	1	
	Culex restuans	6	15	
	Culex salinarius	15	48	
	Culex spp.	51	558	<b>1</b>
	Culex territans	2	5	
	Culiseta melanura	4	4	
	Ochlerotatus japonicus	12	49	
	Ochlerotatus sollicitans	1	4	
	Ochlerotatus triseriatus	10	34	
	Ochlerotatus trivittatus	1	2	
	Psorophora ferox	4	46	
<b>Passaic</b>		<b>102</b>	<b>3279</b>	<b>13</b>
	Aedes albopictus	1	13	
	Culex spp.	98	3205	<b>13</b>
	Ochlerotatus japonicus	3	61	
<b>Salem</b>		<b>187</b>	<b>1767</b>	<b>1</b>
	Aedes albopictus	4	5	
	Aedes vexans	7	23	
	Anopheles bradleyi	4	5	
	Anopheles punctipennis	10	87	
	Anopheles quadrimaculatus	14	244	
	Coquillettidia perturbans	6	10	
	Culex erraticus	15	57	
	Culex pipiens	3	7	
	Culex restuans	17	165	
	Culex salinarius	5	30	

	Culex spp.	31	369	1
	Culex territans	4	6	
	Culiseta melanura	57	746	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	5	8	
<b>Somerset</b>		<b>142</b>	<b>4020</b>	<b>7</b>
	Anopheles barberi	1	1	
	Anopheles punctipennis	4	6	
	Anopheles quadrimaculatus	2	5	
	Culex spp.	96	3620	7
	Ochlerotatus japonicus	22	122	
	Ochlerotatus triseriatus	12	70	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
<b>Sussex</b>		<b>223</b>	<b>7750</b>	<b>2</b>
	Aedes vexans	14	384	
	Anopheles barberi	1	1	
	Anopheles punctipennis	9	34	
	Anopheles quadrimaculatus	1	6	
	Anopheles walkeri	1	11	
	Coquillettidia perturbans	7	97	
	Culex pipiens	2	4	
	Culex restuans	6	109	
	Culex salinarius	9	158	
	Culex spp.	99	5341	2
	Culex territans	1	1	
	Ochlerotatus japonicus	25	151	
	Ochlerotatus sticticus	7	188	
	Ochlerotatus triseriatus	15	79	
	Ochlerotatus trivittatus	15	740	
	Psorophora ferox	5	219	
	Uranotaenia sapphirina	6	227	
<b>Union</b>		<b>77</b>	<b>1984</b>	<b>16</b>
	Aedes albopictus	12	41	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	4	
	Culex spp.	52	1906	16
	Ochlerotatus japonicus	8	24	
	Ochlerotatus punctor	1	1	
	Ochlerotatus triseriatus	2	7	

<b>Warren</b>	<b>252</b>	<b>8199</b>	<b>3</b>
Aedes vexans	11	180	
Anopheles punctipennis	7	18	
Anopheles quadrimaculatus	2	2	
Culex erraticus	1	1	
Culex pipiens	10	286	
Culex restuans	2	62	
Culex salinarius	4	46	
Culex spp.	145	7200	<b>3</b>
Ochlerotatus cantator	1	1	
Ochlerotatus japonicus	41	144	
Ochlerotatus triseriatus	10	22	
Ochlerotatus trivittatus	9	135	
Psorophora ciliata	2	4	
Psorophora columbiae	4	95	
Psorophora ferox	1	1	
Uranotaenia sapphirina	2	2	
<b>Grand Total</b>	<b>4021</b>	<b>99259</b>	<b>230</b>