

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 14

## *Culiseta melanura* Monitor

September 2 - 8, 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.)	5.6	2.0	449	45	0	Waterford (Camden Co.)	2.0	0.4	118	21	0
Corbin City (Atlantic Co.)	2.6	0.5	369	51	0	Centerton (Salem Co.)	4.7	2.0	483	46	0
Dennisville (Cape May Co.)	7.4	1.8	1809	67	0	Turkey Swamp (Monmouth Co.)	2.2	0.2	480	52	0

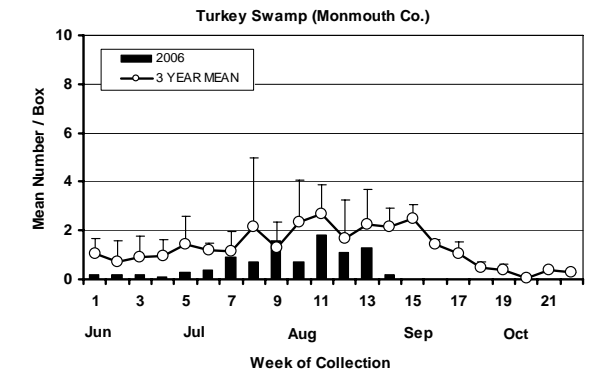
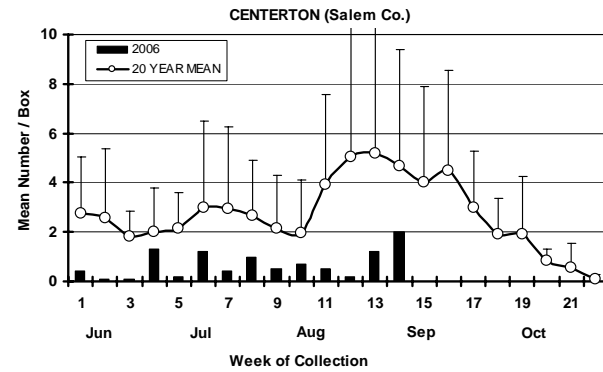
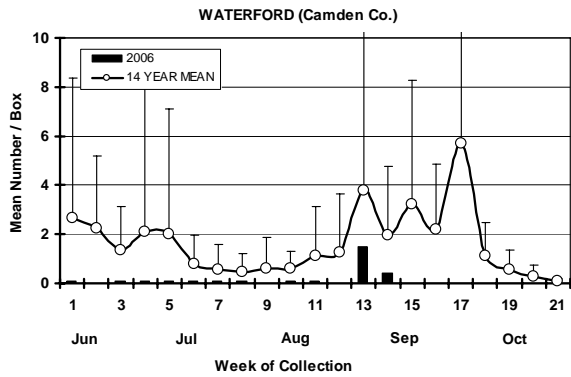
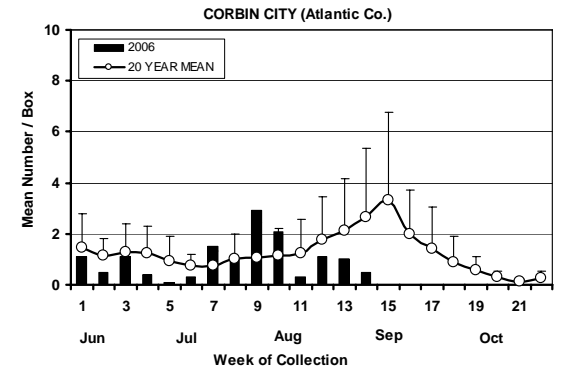
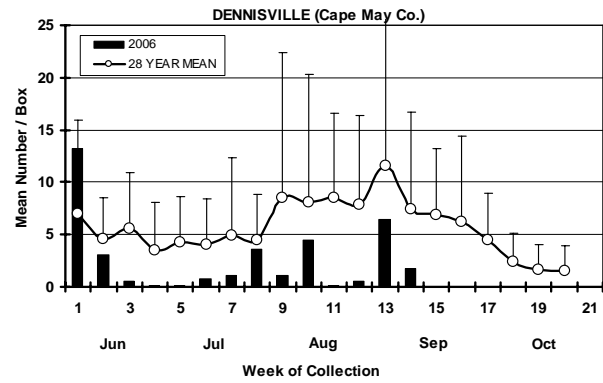
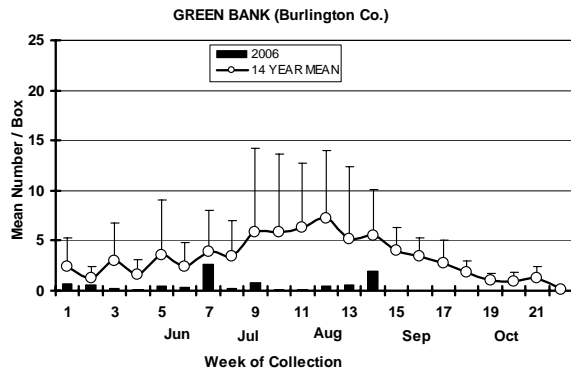
### Collections submitted to PHEL for West Nile Virus testing

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	247	99	93	1,392	293	89	15	41	99	18	207	236	431	3,260
Total Specimens	6,789	1,687	2,727	59,249	3,767	1,571	247	939	381	303	1,000	1,775	5,755	86,190
No. Positive Pools	44	6	0	152	0	0	0	0	0	0	0	2	0	204
MIR Values	6.48	3.56	-	2.57	-	-	-	-	-	-	-	1.13	-	2.37

**Remarks:** *Culiseta melanura* populations remain low with no evidence of EEE to date. Introduction of virus is still possible, however, from birds migrating southward from New England where EEE has been epizootic since early August. Amplification of WNV appears to be peaking with Minimum Infection Rates (Isolations per 1000 mosquitoes tested) greater than 6.0 in *Culex pipiens*. The third human case of this season was reported from Middlesex Co. The 2<sup>nd</sup> positive *Ae. albopictus* pool of the season was collected in Mercer Co. over the past week.

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 Summary Prepared by: Wayne J. Crans, Rutgers University

# Culiseta melanura Population Graphs



## Mosquito Species Submitted for West Nile Virus Testing through September 8, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	236	1775	<b>2</b>
<i>Aedes cinereus</i>	1	1	
<i>Aedes vexans</i>	89	1571	
<i>Anopheles barberi</i>	3	3	
<i>Anopheles bradleyi</i>	30	228	
<i>Anopheles crucians</i>	1	1	
<i>Anopheles punctipennis</i>	67	295	
<i>Anopheles quadrimaculatus</i>	83	2622	
<i>Anopheles walkeri</i>	3	20	
<i>Coquillettidia perturbans</i>	49	234	
<i>Culex erraticus</i>	57	768	
<i>Culex pipiens</i>	247	6789	<b>44</b>
<i>Culex restuans</i>	99	1687	<b>6</b>
<i>Culex salinarius</i>	93	2727	
<i>Culex spp.</i>	1392	59249	<b>152</b>
<i>Culex territans</i>	23	61	
<i>Culiseta melanura</i>	293	3767	
<i>Ochlerotatus atlanticus</i>	19	287	
<i>Ochlerotatus atropalpus</i>	1	2	
<i>Ochlerotatus canadensis</i>	15	247	
<i>Ochlerotatus cantator</i>	6	16	
<i>Ochlerotatus japonicus</i>	207	1000	
<i>Ochlerotatus punctor</i>	1	1	
<i>Ochlerotatus sollicitans</i>	18	303	
<i>Ochlerotatus sticticus</i>	12	211	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	13	95	
<i>Ochlerotatus triseriatus</i>	99	381	
<i>Ochlerotatus trivittatus</i>	41	939	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	1	1	
<i>Psorophora columbiae</i>	17	141	
<i>Psorophora ferox</i>	28	527	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	11	232	
<b>Grand Total</b>	<b>3260</b>	<b>86190</b>	<b>204</b>

**Submission by County through September 8, 2006**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>194</b>	<b>3952</b>	<b>0</b>
	Aedes albopictus	14	172	
	Aedes vexans	12	319	
	Anopheles bradleyi	5	30	
	Anopheles punctipennis	2	6	
	Coquillettidia perturbans	5	35	
	Culex erraticus	14	594	
	Culex restuans	3	10	
	Culex salinarius	11	230	
	Culex spp.	46	1769	
	Culex territans	3	5	
	Culiseta melanura	55	393	
	Ochlerotatus atlanticus	5	129	
	Ochlerotatus canadensis	4	62	
	Ochlerotatus cantator	1	11	
	Ochlerotatus japonicus	2	3	
	Ochlerotatus sollicitans	2	58	
	Ochlerotatus taeniorhynchus	2	10	
	Ochlerotatus triseriatus	3	5	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	50	
	Psorophora ferox	2	56	
	Psorophora howardii	1	3	
<b>Bergen</b>		<b>274</b>	<b>15419</b>	<b>51</b>
	Aedes albopictus	15	226	<b>1</b>
	Aedes cinereus	1	1	
	Aedes vexans	15	553	
	Anopheles punctipennis	5	9	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	5	12	
	Culex pipiens	34	1799	<b>14</b>
	Culex restuans	10	200	<b>3</b>
	Culex salinarius	34	2069	
	Culex spp.	141	10515	<b>33</b>
	Culex territans	1	1	
	Ochlerotatus triseriatus	2	4	
	Ochlerotatus trivittatus	4	6	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	3	17	
	Psorophora ferox	1	2	
<b>Burlington</b>		<b>136</b>	<b>907</b>	<b>2</b>
	Aedes albopictus	25	119	

	<i>Aedes vexans</i>	4	31	
	<i>Anopheles barberi</i>	1	1	
	<i>Anopheles crucians</i>	1	1	
	<i>Anopheles punctipennis</i>	2	4	
	<i>Anopheles quadrimaculatus</i>	5	7	
	<i>Coquillettidia perturbans</i>	4	7	
	<i>Culex erraticus</i>	8	33	
	<i>Culex pipiens</i>	4	12	
	<i>Culex salinarius</i>	1	1	
	<i>Culex spp.</i>	17	164	2
	<i>Culex territans</i>	1	3	
	<i>Culiseta melanura</i>	46	451	
	<i>Ochlerotatus atlanticus</i>	1	1	
	<i>Ochlerotatus canadensis</i>	2	23	
	<i>Ochlerotatus japonicus</i>	6	28	
	<i>Ochlerotatus stimulans</i>	2	2	
	<i>Ochlerotatus triseriatus</i>	2	2	
	<i>Ochlerotatus trivittatus</i>	1	5	
	<i>Psorophora columbiae</i>	1	9	
	<i>Psorophora ferox</i>	2	3	
<b>Camden</b>		<b>87</b>	<b>1530</b>	<b>3</b>
	<i>Aedes albopictus</i>	11	44	
	<i>Anopheles punctipennis</i>	4	7	
	<i>Anopheles quadrimaculatus</i>	6	10	
	<i>Coquillettidia perturbans</i>	3	3	
	<i>Culex restuans</i>	2	2	
	<i>Culex spp.</i>	35	1333	3
	<i>Culiseta melanura</i>	21	118	
	<i>Ochlerotatus japonicus</i>	4	8	
	<i>Ochlerotatus triseriatus</i>	1	5	
<b>Cape May</b>		<b>162</b>	<b>4573</b>	<b>0</b>
	<i>Aedes albopictus</i>	5	34	
	<i>Anopheles bradleyi</i>	12	156	
	<i>Anopheles punctipennis</i>	2	3	
	<i>Anopheles quadrimaculatus</i>	41	2352	
	<i>Coquillettidia perturbans</i>	2	15	
	<i>Culex erraticus</i>	7	52	
	<i>Culex pipiens</i>	6	34	
	<i>Culex restuans</i>	8	56	
	<i>Culex salinarius</i>	7	30	
	<i>Culex territans</i>	1	4	
	<i>Culiseta melanura</i>	67	1833	
	<i>Ochlerotatus atlanticus</i>	1	1	
	<i>Ochlerotatus cantator</i>	2	2	
	<i>Psorophora ferox</i>	1	1	

<b>Cumberland</b>	<b>64</b>	<b>623</b>	<b>0</b>
Aedes albopictus	1	1	
Aedes vexans	2	3	
Anopheles bradleyi	7	27	
Anopheles quadrimaculatus	2	3	
Coquillettidia perturbans	6	12	
Culex erraticus	5	7	
Culex spp.	17	368	
Ochlerotatus atlanticus	9	142	
Ochlerotatus canadensis	1	1	
Ochlerotatus sollicitans	2	3	
Ochlerotatus taeniorhynchus	7	46	
Ochlerotatus triseriatus	1	1	
Psorophora ferox	4	9	
<b>Essex</b>	<b>94</b>	<b>1673</b>	<b>5</b>
Aedes albopictus	12	50	
Aedes vexans	9	72	
Anopheles punctipennis	2	2	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	1	4	
Culex spp.	43	1303	<b>5</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>171</b>	<b>2120</b>	<b>1</b>
Aedes albopictus	13	41	
Aedes vexans	1	2	
Anopheles bradleyi	2	10	
Anopheles punctipennis	1	1	
Anopheles walkeri	2	9	
Coquillettidia perturbans	4	14	
Culex pipiens	121	1990	<b>1</b>
Culex restuans	1	2	
Culex salinarius	1	2	
Culex territans	1	1	
Culiseta melanura	2	3	
Ochlerotatus canadensis	2	4	
Ochlerotatus japonicus	17	23	
Psorophora ciliata	1	1	

	Psorophora columbiae	1	16	
	Psorophora ferox	1	1	
<b>Hudson</b>		<b>197</b>	<b>8035</b>	<b>41</b>
	Aedes albopictus	8	67	
	Aedes vexans	1	6	
	Coquillettidia perturbans	1	18	
	Culex pipiens	19	1232	<b>8</b>
	Culex salinarius	3	197	
	Culex spp.	165	6515	<b>33</b>
<b>Hunterdon</b>		<b>192</b>	<b>7286</b>	<b>9</b>
	Aedes albopictus	1	2	
	Aedes vexans	1	3	
	Anopheles barberi	1	1	
	Anopheles punctipennis	8	107	
	Anopheles quadrimaculatus	3	12	
	Culex erraticus	1	1	
	Culex pipiens	4	42	
	Culex restuans	11	465	<b>1</b>
	Culex salinarius	2	2	
	Culex spp.	142	6583	<b>8</b>
	Culex territans	2	2	
	Ochlerotatus japonicus	6	46	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus triseriatus	3	3	
	Ochlerotatus trivittatus	4	14	
	Uranotaenia sapphirina	2	2	
<b>Mercer</b>		<b>233</b>	<b>4520</b>	<b>32</b>
	Aedes albopictus	40	202	<b>1</b>
	Aedes vexans	8	131	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	3	5	
	Anopheles quadrimaculatus	2	10	
	Coquillettidia perturbans	2	3	
	Culex erraticus	6	31	
	Culex pipiens	53	1668	<b>21</b>
	Culex restuans	31	650	<b>2</b>
	Culex salinarius	9	76	
	Culex spp.	33	1463	<b>8</b>
	Culex territans	2	2	
	Ochlerotatus atropalpus	1	2	
	Ochlerotatus canadensis	3	147	
	Ochlerotatus japonicus	18	37	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus triseriatus	8	24	

	Ochlerotatus trivittatus	5	22	
	Psorophora columbiae	5	40	
	Psorophora ferox	2	2	
<b>Middlesex</b>		<b>158</b>	<b>6670</b>	<b>14</b>
	Aedes albopictus	8	56	
	Culex pipiens	1	1	
	Culex spp.	139	6577	<b>14</b>
	Ochlerotatus japonicus	10	36	
<b>Monmouth</b>		<b>238</b>	<b>2222</b>	<b>2</b>
	Aedes albopictus	27	121	
	Aedes vexans	9	33	
	Anopheles punctipennis	9	17	
	Anopheles quadrimaculatus	3	4	
	Coquillettidia perturbans	2	3	
	Culex erraticus	1	2	
	Culex restuans	5	14	
	Culex spp.	67	1081	<b>2</b>
	Culex territans	7	34	
	Culiseta melanura	52	480	
	Ochlerotatus atlanticus	2	13	
	Ochlerotatus canadensis	3	10	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	15	96	
	Ochlerotatus sollicitans	12	237	
	Ochlerotatus taeniorhynchus	4	39	
	Ochlerotatus triseriatus	13	26	
	Ochlerotatus trivittatus	3	5	
	Psorophora columbiae	1	1	
	Psorophora ferox	2	5	
<b>Morris</b>		<b>133</b>	<b>2335</b>	<b>5</b>
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	1	1	
	Culex spp.	84	2035	<b>5</b>
	Ochlerotatus japonicus	27	183	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	19	114	
<b>Ocean</b>		<b>135</b>	<b>1299</b>	<b>1</b>
	Aedes albopictus	41	583	
	Aedes vexans	3	5	
	Culex erraticus	1	1	
	Culex restuans	5	14	
	Culex salinarius	15	48	
	Culex spp.	44	535	<b>1</b>



	Culex territans	2	5	
	Culiseta melanura	1	1	
	Ochlerotatus japonicus	12	49	
	Ochlerotatus sollicitans	1	4	
	Ochlerotatus triseriatus	9	33	
	Psorophora ferox	1	21	
<b>Passaic</b>		<b>79</b>	<b>2881</b>	<b>12</b>
	Aedes albopictus	1	13	
	Culex spp.	76	2818	<b>12</b>
	Ochlerotatus japonicus	2	50	
<b>Salem</b>		<b>168</b>	<b>1438</b>	<b>1</b>
	Aedes albopictus	3	4	
	Aedes vexans	7	23	
	Anopheles bradleyi	3	3	
	Anopheles punctipennis	8	75	
	Anopheles quadrimaculatus	12	204	
	Coquillettidia perturbans	6	10	
	Culex erraticus	13	46	
	Culex pipiens	3	7	
	Culex restuans	17	165	
	Culex salinarius	5	30	
	Culex spp.	31	369	<b>1</b>
	Culex territans	2	3	
	Culiseta melanura	48	486	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	5	8	
<b>Somerset</b>		<b>113</b>	<b>3523</b>	<b>6</b>
	Anopheles punctipennis	4	6	
	Anopheles quadrimaculatus	2	5	
	Culex spp.	71	3135	<b>6</b>
	Ochlerotatus japonicus	19	111	
	Ochlerotatus triseriatus	12	70	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
<b>Sussex</b>		<b>203</b>	<b>6976</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	4	41	
	Culex spp.	89	4713	<b>2</b>
	Culex territans	1	1	
	Ochlerotatus japonicus	22	127	
	Ochlerotatus sticticus	7	188	
	Ochlerotatus triseriatus	13	74	
	Ochlerotatus trivittatus	15	740	
	Psorophora ferox	5	219	
	Uranotaenia sapphirina	6	227	
<b>Union</b>		<b>70</b>	<b>1880</b>	<b>15</b>
	Aedes albopictus	11	40	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	4	
	Culex spp.	48	1810	<b>15</b>
	Ochlerotatus japonicus	7	22	
	Ochlerotatus punctor	1	1	
	Ochlerotatus triseriatus	1	2	
<b>Warren</b>		<b>159</b>	<b>6328</b>	<b>2</b>
	Aedes vexans	3	6	
	Anopheles punctipennis	6	17	
	Anopheles quadrimaculatus	2	2	
	Culex erraticus	1	1	
	Culex salinarius	1	1	
	Culex spp.	104	6163	<b>2</b>
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	28	110	
	Ochlerotatus triseriatus	7	12	
	Ochlerotatus trivittatus	4	13	
	Uranotaenia sapphirina	2	2	
<b>Grand Total</b>		<b>3260</b>	<b>86190</b>	<b>204</b>