

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 11

## *Culiseta melanura* Monitor

August 12 - 18, 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.)	6.4	0.1	299	33	0	Waterford (Camden Co.)	1.1	<0.1	20	14	0
Corbin City (Atlantic Co.)	1.2	0.3	303	39	0	Centerton (Salem Co.)	3.9	0.5	313	35	0
Dennisville (Cape May Co.)	8.5	<0.1	1408	51	0	Turkey Swamp (Monmouth Co.)	2.7	1.8	355	40	0

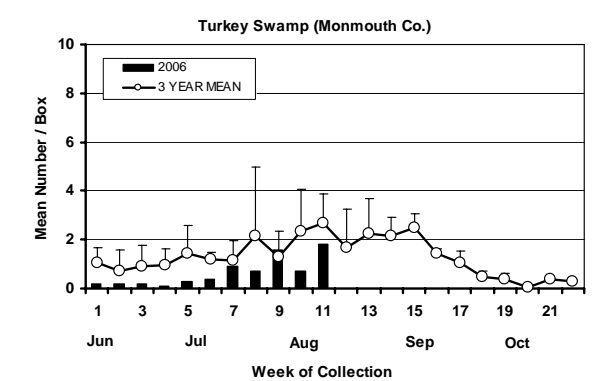
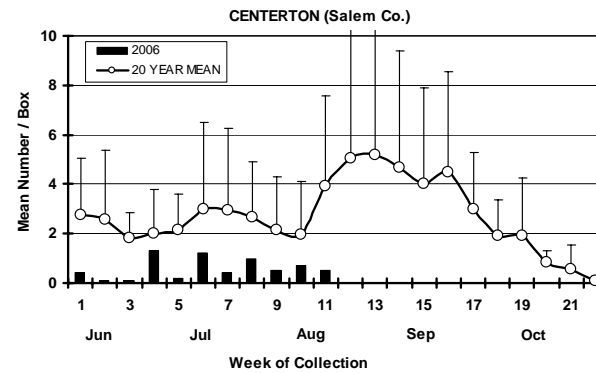
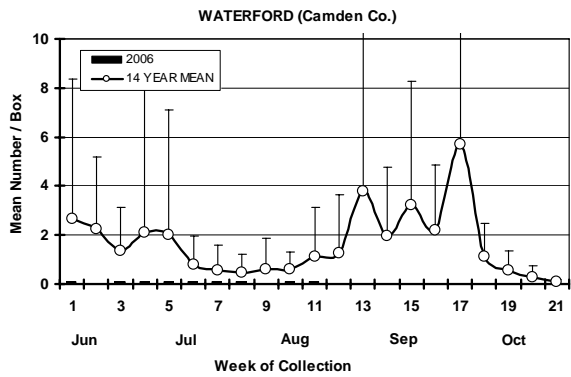
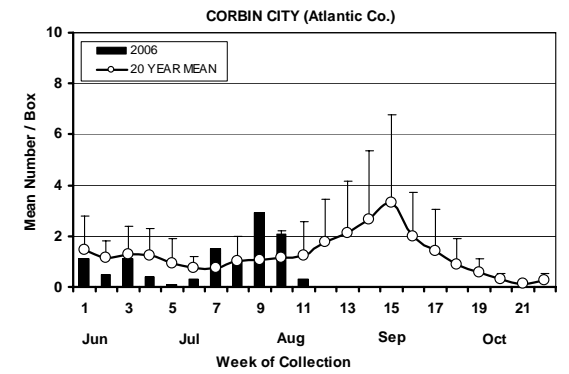
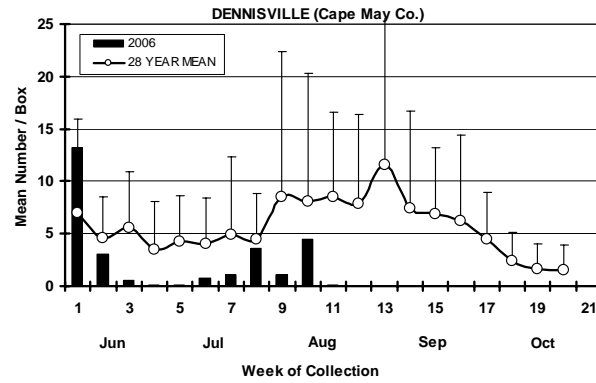
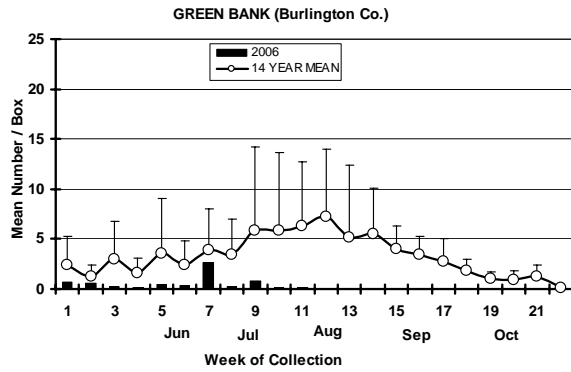
### Collections submitted to PHEL for West Nile Virus testing

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	136	71	59	1,024	217	72	12	35	70	15	146	119	285	2,261
Total Specimens	2,777	1,014	1,273	46,150	2,720	1,243	240	922	248	298	809	1,072	4,477	63,243
No. Positive Pools	15	3	0	68	0	0	0	0	0	0	0	1	0	87

**Remarks:** *Culiseta melanura* populations remain well below normal for this time of year at study sites being monitored for EEE in New Jersey. There has been no indication of EEE virus in any of the samples tested thus far. Amplification of WNV continues with evidence of positive *Culex* mosquitoes from 13 different counties to date. A positive pool of *Aedes albopictus* collected in Bergen Co. provides the first evidence of WNV from a bridge vector species this year. The combination of urban breeding potential, backyard pest status and aggressive biting behavior make the Asian Tiger mosquito a significant WNV health threat. Because the mosquito rarely enters traps, county mosquito control programs are urged to submit hand-aspirated or sweep-netted specimens to increase this year's data base on this important pest species.

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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 August 18, 2006**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<i>Aedes albopictus</i>	119	1072	<b>1</b>
<i>Aedes vexans</i>	72	1243	
<i>Anopheles barberi</i>	1	1	
<i>Anopheles bradleyi</i>	14	146	
<i>Anopheles punctipennis</i>	49	238	
<i>Anopheles quadrimaculatus</i>	55	1996	
<i>Anopheles walkeri</i>	1	11	
<i>Coquillettidia perturbans</i>	36	180	
<i>Culex erraticus</i>	30	552	
<i>Culex pipiens</i>	136	2777	<b>15</b>
<i>Culex restuans</i>	71	1014	<b>3</b>
<i>Culex salinarius</i>	59	1273	
<i>Culex spp.</i>	1024	46150	<b>68</b>
<i>Culex territans</i>	13	43	
<i>Culiseta melanura</i>	217	2720	
<i>Ochlerotatus atlanticus</i>	10	166	
<i>Ochlerotatus atropalpus</i>	1	2	
<i>Ochlerotatus canadensis</i>	12	240	
<i>Ochlerotatus cantator</i>	6	16	
<i>Ochlerotatus japonicus</i>	146	809	
<i>Ochlerotatus sollicitans</i>	15	298	
<i>Ochlerotatus sticticus</i>	11	209	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	5	42	
<i>Ochlerotatus triseriatus</i>	70	248	
<i>Ochlerotatus trivittatus</i>	35	922	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	1	1	
<i>Psorophora columbiae</i>	15	135	
<i>Psorophora ferox</i>	24	501	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	8	229	
<b>Grand Total</b>	<b>2261</b>	<b>63243</b>	<b>87</b>

Submission by County through August 18, 2006

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>136</b>	<b>3491</b>	<b>0</b>
	Aedes albopictus	6	127	
	Aedes vexans	10	315	
	Anopheles bradleyi	1	15	
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	3	32	
	Culex erraticus	10	500	
	Culex restuans	3	10	
	Culex salinarius	7	215	
	Culex spp.	37	1620	
	Culex territans	2	4	
	Culiseta melanura	40	317	
	Ochlerotatus atlanticus	4	115	
	Ochlerotatus canadensis	3	57	
	Ochlerotatus cantator	1	11	
	Ochlerotatus sollicitans	2	58	
	Ochlerotatus triseriatus	2	4	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	50	
	Psorophora ferox	1	35	
	Psorophora howardii	1	3	
<b>Bergen</b>		<b>164</b>	<b>9599</b>	<b>26</b>
	Aedes albopictus	9	180	<b>1</b>
	Aedes vexans	8	250	
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	3	6	
	Culex pipiens	13	576	<b>6</b>
	Culex restuans	5	47	<b>1</b>
	Culex salinarius	15	864	
	Culex spp.	102	7650	<b>18</b>
	Ochlerotatus triseriatus	1	3	
	Ochlerotatus trivittatus	2	2	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	1	11	
	Psorophora ferox	1	2	
<b>Burlington</b>		<b>88</b>	<b>623</b>	<b>1</b>
	Aedes albopictus	14	80	
	Aedes vexans	3	25	
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	3	6	
	Culex erraticus	1	4	

	Culex pipiens	2	10	
	Culex spp.	11	121	1
	Culex territans	1	3	
	Culiseta melanura	34	301	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus canadensis	2	23	
	Ochlerotatus japonicus	5	27	
	Ochlerotatus stimulans	2	2	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	1	9	
	Psorophora ferox	2	3	
<b>Camden</b>		<b>64</b>	<b>1214</b>	<b>0</b>
	Aedes albopictus	7	39	
	Anopheles punctipennis	4	7	
	Anopheles quadrimaculatus	4	7	
	Coquillettidia perturbans	3	3	
	Culex restuans	1	1	
	Culex spp.	28	1127	
	Culiseta melanura	14	20	
	Ochlerotatus japonicus	2	5	
	Ochlerotatus triseriatus	1	5	
<b>Cape May</b>		<b>108</b>	<b>3506</b>	<b>0</b>
	Anopheles bradleyi	8	113	
	Anopheles punctipennis	1	2	
	Anopheles quadrimaculatus	29	1905	
	Coquillettidia perturbans	1	1	
	Culex erraticus	2	2	
	Culex pipiens	3	9	
	Culex restuans	3	29	
	Culex salinarius	6	29	
	Culex territans	1	4	
	Culiseta melanura	50	1408	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	2	2	
	Psorophora ferox	1	1	
<b>Cumberland</b>		<b>19</b>	<b>114</b>	<b>0</b>
	Aedes vexans	1	2	
	Anopheles bradleyi	1	5	
	Anopheles quadrimaculatus	1	2	
	Coquillettidia perturbans	1	1	
	Culex erraticus	3	3	
	Culex spp.	7	54	
	Ochlerotatus atlanticus	1	35	
	Ochlerotatus taeniorhynchus	2	7	
	Ochlerotatus triseriatus	1	1	

	Psorophora ferox	1	4	
<b>Essex</b>		<b>76</b>	<b>1485</b>	<b>0</b>
	Aedes albopictus	10	43	
	Aedes vexans	7	69	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	36	1136	
	Ochlerotatus japonicus	9	67	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	2	17	
	Ochlerotatus triseriatus	2	2	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	5	141	
<b>Gloucester</b>		<b>113</b>	<b>1197</b>	<b>1</b>
	Aedes albopictus	8	21	
	Aedes vexans	1	2	
	Anopheles bradleyi	2	10	
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	4	14	
	Culex pipiens	74	1103	<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	13	16	
	Psorophora ciliata	1	1	
	Psorophora columbiae	1	16	
	Psorophora ferox	1	1	
<b>Hudson</b>		<b>120</b>	<b>5474</b>	<b>22</b>
	Culex spp.	120	5474	<b>22</b>
<b>Hunterdon</b>		<b>102</b>	<b>4451</b>	<b>2</b>
	Aedes vexans	1	3	
	Anopheles punctipennis	5	101	
	Anopheles quadrimaculatus	1	2	
	Culex erraticus	1	1	
	Culex restuans	1	1	
	Culex salinarius	2	2	
	Culex spp.	86	4300	<b>2</b>
	Ochlerotatus japonicus	1	27	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus trivittatus	2	12	
	Uranotaenia sapphirina	1	1	

<b>Mercer</b>	<b>170</b>	<b>3332</b>	<b>11</b>
Aedes albopictus	20	158	
Aedes vexans	8	131	
Anopheles bradleyi	1	2	
Anopheles punctipennis	3	5	
Anopheles quadrimaculatus	2	10	
Coquillettidia perturbans	2	3	
Culex erraticus	2	5	
Culex pipiens	39	1068	<b>8</b>
Culex restuans	26	624	<b>2</b>
Culex salinarius	9	76	
Culex spp.	22	987	<b>1</b>
Culex territans	1	1	
Ochlerotatus atropalpus	1	2	
Ochlerotatus canadensis	3	147	
Ochlerotatus japonicus	11	23	
Ochlerotatus sticticus	1	3	
Ochlerotatus triseriatus	7	23	
Ochlerotatus trivittatus	5	22	
Psorophora columbiae	5	40	
Psorophora ferox	2	2	
<b>Middlesex</b>	<b>111</b>	<b>5608</b>	<b>8</b>
Aedes albopictus	4	33	
Culex spp.	99	5556	<b>8</b>
Ochlerotatus japonicus	8	19	
<b>Monmouth</b>	<b>179</b>	<b>1856</b>	<b>2</b>
Aedes albopictus	11	30	
Aedes vexans	9	33	
Anopheles punctipennis	7	13	
Anopheles quadrimaculatus	2	2	
Coquillettidia perturbans	2	3	
Culex restuans	4	13	
Culex spp.	54	970	<b>2</b>
Culex territans	5	25	
Culiseta melanura	40	355	
Ochlerotatus atlanticus	2	13	
Ochlerotatus canadensis	2	9	
Ochlerotatus cantator	1	1	
Ochlerotatus japonicus	13	94	
Ochlerotatus sollicitans	11	235	
Ochlerotatus taeniorhynchus	3	35	
Ochlerotatus triseriatus	7	14	
Ochlerotatus trivittatus	3	5	
Psorophora columbiae	1	1	
Psorophora ferox	2	5	

<b>Morris</b>		<b>90</b>	<b>1666</b>	<b>2</b>
	Anopheles punctipennis	1	1	
	Culex spp.	59	1488	<b>2</b>
	Ochlerotatus japonicus	19	152	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	10	24	
<b>Ocean</b>		<b>90</b>	<b>962</b>	<b>0</b>
	Aedes albopictus	21	341	
	Aedes vexans	2	4	
	Culex restuans	4	13	
	Culex salinarius	12	44	
	Culex spp.	36	496	
	Culex territans	1	4	
	Ochlerotatus japonicus	5	13	
	Ochlerotatus sollicitans	1	4	
	Ochlerotatus triseriatus	7	22	
	Psorophora ferox	1	21	
<b>Passaic</b>		<b>58</b>	<b>2214</b>	<b>3</b>
	Culex spp.	56	2164	<b>3</b>
	Ochlerotatus japonicus	2	50	
<b>Salem</b>		<b>143</b>	<b>1072</b>	<b>1</b>
	Aedes albopictus	3	4	
	Aedes vexans	7	23	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	5	44	
	Anopheles quadrimaculatus	8	54	
	Coquillettidia perturbans	6	10	
	Culex erraticus	10	36	
	Culex pipiens	3	7	
	Culex restuans	17	165	
	Culex salinarius	5	30	
	Culex spp.	31	369	<b>1</b>
	Culiseta melanura	37	316	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	5	8	
<b>Somerset</b>		<b>75</b>	<b>2642</b>	<b>1</b>
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	1	2	
	Culex spp.	47	2294	<b>1</b>
	Ochlerotatus japonicus	10	83	



	Ochlerotatus triseriatus	10	63	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
<b>Sussex</b>		<b>200</b>	<b>6945</b>	<b>0</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	1	10	
	Culex spp.	89	4713	
	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>51</b>	<b>1418</b>	<b>7</b>
	Aedes albopictus	6	16	
	Anopheles punctipennis	1	1	
	Culex spp.	37	1379	<b>7</b>
	Ochlerotatus japonicus	7	22	
<b>Warren</b>		<b>104</b>	<b>4374</b>	<b>0</b>
	Aedes vexans	1	2	
	Anopheles punctipennis	4	15	
	Anopheles quadrimaculatus	2	2	
	Culex erraticus	1	1	
	Culex salinarius	1	1	
	Culex spp.	67	4252	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	18	83	
	Ochlerotatus triseriatus	5	9	
	Ochlerotatus trivittatus	3	7	
	Uranotaenia sapphirina	1	1	
<b>Grand Total</b>		<b>2261</b>	<b>63243</b>	<b>87</b>