

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 11

## *Culiseta melanura* Monitor August 8 - 14, 2005

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.)	6.8	0.2	507	37	1	Waterford (Camden Co.)	1.2	0	90	12	0
Corbin City (Atlantic Co.)	1.2	1.1	262	35	0	Centerton (Salem Co.)	4.1	0.7	326	37	0
Dennisville (Cape May Co.)	8.4	11.0	3,705	95	0	Turkey Swamp (Monmouth Co.)	1.3	3.5	638	44	1

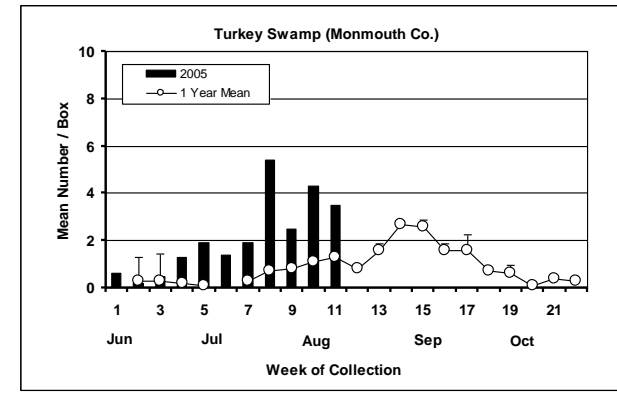
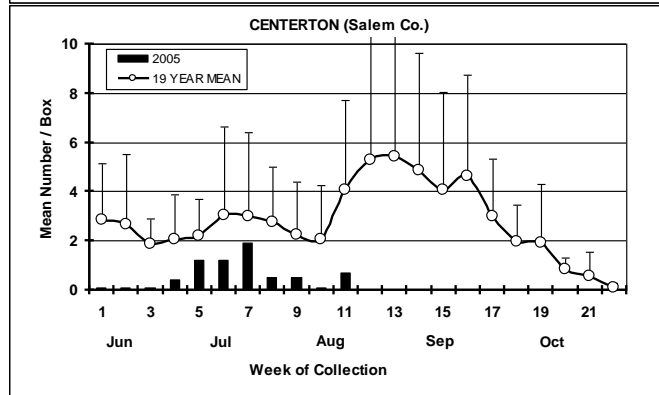
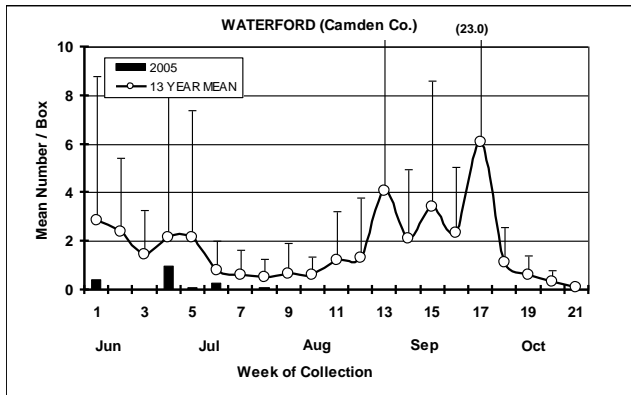
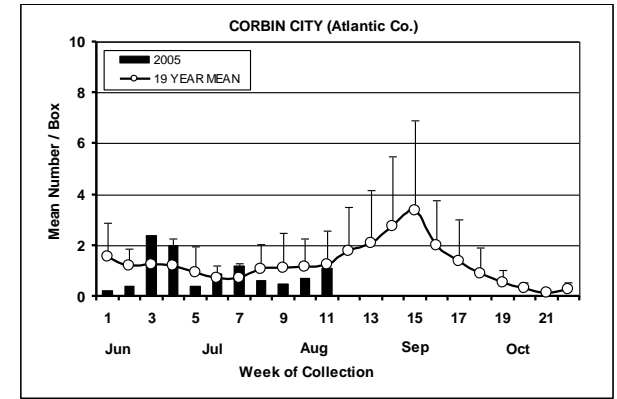
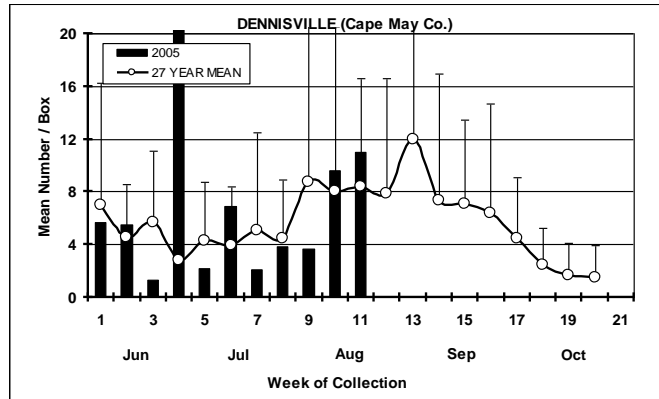
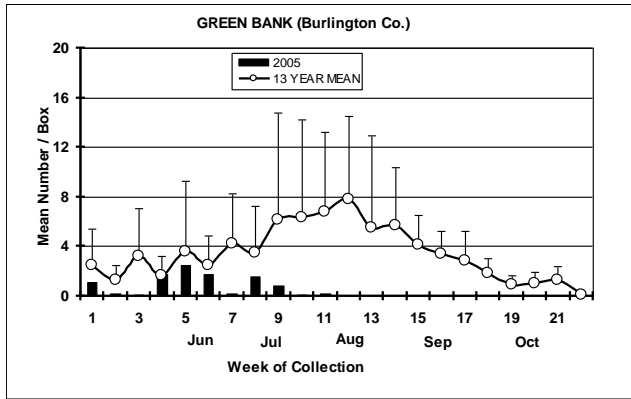
### Collections submitted to PHEL for West Nile Virus testing

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	219	114	52	997	360	67	16	6	89	25	254	80	257	2,536
Total Specimens	7,228	1,625	814	40,501	6,757	1,026	242	120	469	852	1,526	699	2,830	64,689
No. Positive Pools	17	2	0	37	0	0	0	0	0	0	0	0	0	56

**Remarks:** The first confirmed EEE horse case in New Jersey was reported from a 2 year-old mare stabled at a farm in the Williamstown area of Gloucester Co. The animal had an onset date of July 31st and had not been vaccinated for EEE. This is the first indication that EEE has progressed beyond the amplification phase and is being picked up by bridge vectors in some areas. A pool of *Culiseta melanura* collected August 2 from Turkey Swamp in Monmouth Co. tested positive for EEE indicating that virus is present in birds over a fairly wide geographic area of the state. Mosquito control agencies are encouraged to selectively target bridge vector populations at this point in the season to minimize the possibility of human involvement. The hot, dry weather the northeast is experiencing suppresses *Cs. melanura* activity and limits the numbers of specimens available for virus testing. Hot dry weather also minimizes floodwater bridge vectors, a situation that will change dramatically if and when heavy rains break the current drought cycle. WNV remains focal but has now been documented in 8 of New Jersey's 21 counties. All of the positive pools have come from bird feeding mosquitoes, to date, suggesting that virus activity is still contained within the amplification phase of this year's WNV cycle.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-11-05 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University
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# Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through  
August 12, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	80	699	
Ae. cinereus	2	7	
Ae. vexans	67	1026	
An. barberi	2	2	
An. bradleyi	10	69	
An. crucians	1	2	
An. punctipennis	41	247	
An. quadrimaculatus	25	328	
Cq. perturbans	60	1202	
Cs. melanura	360	6757	
Cs. morsitans	1	4	
Cx. erraticus	5	67	
Cx. mix	997	40501	37
Cx. pipiens	219	7228	17
Cx. restuans	114	1625	2
Cx. salinarius	52	814	
Cx. territans	3	12	
Oc. abserratus	1	11	
Oc. atlanticus	4	17	
Oc. atropalpus	1	7	
Oc. canadensis	16	242	
Oc. cantator	21	51	
Oc. grossbecki	6	11	
Oc. japonicus	254	1526	
Oc. mitchellae	1	1	
Oc. sollicitans	25	852	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	14	195	
Oc. triseriatus	89	469	
Oc. trivittatus	6	120	
Or. signifera	3	4	
Ps. ciliata	6	23	
Ps. columbiae	17	172	
Ps. ferox	20	314	
Ps. howardii	2	15	
Ur. sapphirina	1	12	
<b>Grand Total</b>	<b>2536</b>	<b>64689</b>	<b>56</b>

**Submissions by County through August 12, 2005**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>140</b>	<b>3740</b>	<b>2</b>
	Ae. albopictus	11	214	
	Ae. vexans	4	104	
	Cq. perturbans	12	396	
	Cs. melanura	40	314	
	Cx. mix	53	2404	2
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	5	34	
	Oc. sticticus	1	5	
	Oc. triseriatus	4	39	
	Or. signifera	1	2	
	Ps. ferox	6	212	
<b>Bergen</b>		<b>131</b>	<b>7862</b>	<b>20</b>
	Ae. vexans	6	23	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	93	6975	20
	Cx. pipiens	13	625	
	Cx. restuans	2	46	
	Cx. salinarius	6	87	
	Oc. cantator	1	2	
	Oc. japonicus	2	24	
	Oc. triseriatus	2	2	
<b>Burlington</b>		<b>144</b>	<b>1915</b>	<b>0</b>
	Ae. albopictus	9	100	
	Ae. cinereus	2	7	
	Ae. vexans	11	363	
	An. barberi	1	1	
	An. bradleyi	2	32	
	An. crucians	1	2	
	An. punctipennis	4	22	
	An. quadrimaculatus	3	4	
	Cq. perturbans	4	17	
	Cs. melanura	39	583	
	Cx. erraticus	1	1	
	Cx. mix	20	220	
	Cx. pipiens	1	2	
	Cx. salinarius	1	3	
	Cx. territans	1	5	
	Oc. abserratus	1	11	
	Oc. atropalpus	1	7	
	Oc. canadensis	1	1	
	Oc. cantator	1	3	
	Oc. grossbecki	3	8	
	Oc. japonicus	9	51	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	

	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	9	96	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	3	26	
	Ps. ferox	1	9	
	Ps. howardii	1	14	
	Ur. sapphirina	1	12	
<b>Camden</b>		<b>53</b>	<b>754</b>	<b>0</b>
	Ae. albopictus	6	18	
	Ae. vexans	2	39	
	An. punctipennis	2	13	
	An. quadrimaculatus	3	8	
	Cs. melanura	13	92	
	Cx. mix	17	531	
	Oc. japonicus	10	53	
<b>Cape May</b>		<b>232</b>	<b>6829</b>	<b>0</b>
	Ae. albopictus	3	12	
	Ae. vexans	1	8	
	An. bradleyi	3	26	
	An. punctipennis	1	75	
	An. quadrimaculatus	4	228	
	Cq. perturbans	8	137	
	Cs. melanura	121	4561	
	Cx. erraticus	2	51	
	Cx. mix	7	96	
	Cx. pipiens	22	640	
	Cx. restuans	35	539	
	Cx. salinarius	11	187	
	Cx. territans	1	6	
	Oc. cantator	1	2	
	Oc. japonicus	1	3	
	Oc. sollicitans	4	116	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	2	5	
<b>Cumberland</b>		<b>120</b>	<b>443</b>	<b>0</b>
	Ae. albopictus	1	1	
	Ae. vexans	2	2	
	An. bradleyi	2	4	
	An. punctipennis	6	8	
	An. quadrimaculatus	5	7	
	Cq. perturbans	1	1	
	Cs. melanura	54	178	
	Cx. mix	25	173	
	Oc. atlanticus	1	1	
	Oc. canadensis	3	3	
	Oc. cantator	4	5	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	

	Oc. sticticus	3	3	
	Oc. taeniorhynchus	7	48	
	Ps. ferox	4	7	
<b>Essex</b>		<b>68</b>	<b>1133</b>	<b>0</b>
	Ae. albopictus	5	17	
	Ae. vexans	7	131	
	An. quadrimaculatus	1	1	
	Cx. mix	42	933	
	Oc. japonicus	8	31	
	Oc. sticticus	1	3	
	Oc. triseriatus	2	7	
	Ps. ciliata	1	9	
	Ps. ferox	1	1	
<b>Gloucester</b>		<b>105</b>	<b>2107</b>	<b>0</b>
	Ae. albopictus	4	10	
	Ae. vexans	1	1	
	An. punctipennis	2	3	
	An. quadrimaculatus	1	1	
	Cx. pipiens	76	2000	
	Oc. japonicus	17	86	
	Oc. triseriatus	4	6	
<b>Hudson</b>		<b>89</b>	<b>2797</b>	<b>1</b>
	Cx. mix	89	2797	1
<b>Hunterdon</b>		<b>103</b>	<b>4087</b>	<b>0</b>
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	Cx. mix	79	3871	
	Cx. pipiens	8	122	
	Cx. restuans	6	81	
	Oc. japonicus	4	5	
<b>Mercer</b>		<b>188</b>	<b>4996</b>	<b>19</b>
	Ae. albopictus	12	40	
	Ae. vexans	7	111	
	An. bradleyi	1	2	
	An. punctipennis	4	14	
	An. quadrimaculatus	1	3	
	Cq. perturbans	1	38	
	Cs. melanura	2	3	
	Cx. erraticus	1	14	
	Cx. mix	18	987	1
	Cx. pipiens	67	3029	16
	Cx. restuans	40	427	2
	Cx. salinarius	4	90	
	Oc. japonicus	24	91	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	2	86	
	Ps. ferox	1	50	
	Ps. howardii	1	1	

<b>Middlesex</b>	<b>165</b>	<b>5251</b>	<b>6</b>
Ae. albopictus	7	60	
Ae. vexans	5	31	
An. punctipennis	1	2	
Cq. perturbans	2	93	
Cx. mix	94	4282	6
Cx. pipiens	13	299	
Cx. restuans	8	240	
Cx. salinarius	4	83	
Oc. japonicus	13	71	
Oc. sollicitans	2	6	
Oc. triseriatus	8	32	
Or. signifera	1	1	
Ps. ciliata	1	1	
Ps. columbiae	6	50	
<b>Monmouth</b>	<b>205</b>	<b>3200</b>	<b>1</b>
Ae. albopictus	9	20	
Ae. vexans	12	135	
An. barberi	1	1	
An. punctipennis	2	5	
Cq. perturbans	2	3	
Cs. melanura	44	612	
Cx. mix	67	1750	
Cx. pipiens	7	116	1
Cx. restuans	6	13	
Cx. salinarius	2	3	
Oc. canadensis	2	9	
Oc. cantator	10	27	
Oc. japonicus	15	47	
Oc. sollicitans	11	351	
Oc. taeniorhynchus	1	7	
Oc. triseriatus	12	81	
Ps. columbiae	1	2	
Ps. ferox	1	18	
<b>Morris</b>	<b>87</b>	<b>2176</b>	<b>0</b>
Ae. vexans	2	17	
Cq. perturbans	2	5	
Cx. mix	46	1911	
Oc. japonicus	27	190	
Oc. triseriatus	9	49	
Ps. ferox	1	4	
<b>Ocean</b>	<b>179</b>	<b>5039</b>	<b>5</b>
Ae. albopictus	11	204	
Ae. vexans	3	33	
An. bradleyi	1	3	
Cq. perturbans	5	68	
Cs. melanura	6	16	
Cs. morsitans	1	4	
Cx. mix	74	3610	5
Cx. pipiens	3	186	

	Cx. restuans	8	90	
	Cx. salinarius	24	361	
	Cx. territans	1	1	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	3	7	
	Oc. japonicus	18	116	
	Oc. sollicitans	3	103	
	Oc. triseriatus	6	15	
	Ps. ferox	3	11	
<b>Passaic</b>		<b>75</b>	<b>2651</b>	<b>2</b>
	Ae. albopictus	1	2	
	Cx. mix	59	2375	2
	Oc. japonicus	11	253	
	Oc. triseriatus	4	21	
<b>Salem</b>		<b>147</b>	<b>1271</b>	<b>0</b>
	An. bradleyi	1	2	
	An. punctipennis	4	37	
	An. quadrimaculatus	4	73	
	Cq. perturbans	7	15	
	Cs. melanura	37	326	
	Cx. erraticus	1	1	
	Cx. mix	57	753	
	Cx. restuans	1	1	
	Oc. japonicus	22	42	
	Oc. triseriatus	4	5	
	Ps. ciliata	2	6	
	Ps. columbiae	5	8	
	Ps. ferox	2	2	
<b>Somerset</b>		<b>93</b>	<b>2109</b>	<b>0</b>
	An. punctipennis	3	14	
	Cx. mix	57	1853	
	Oc. japonicus	22	181	
	Oc. triseriatus	11	61	
<b>Sussex</b>		<b>81</b>	<b>1252</b>	<b>0</b>
	Ae. vexans	2	26	
	An. punctipennis	6	43	
	An. quadrimaculatus	1	1	
	Cq. perturbans	12	391	
	Cx. mix	24	533	
	Cx. pipiens	1	11	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	20	94	
	Oc. sticticus	1	16	
	Oc. triseriatus	8	36	
	Oc. trivittatus	3	77	
<b>Union</b>		<b>33</b>	<b>558</b>	<b>0</b>
	Ae. albopictus	1	1	



	An. punctipennis	1	1	
	An. quadrimaculatus	2	2	
	Cx. mix	5	152	
	Cx. pipiens	8	198	
	Cx. restuans	8	188	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	13	
	Oc. triseriatus	1	2	
<b>Warren</b>		<b>97</b>	<b>4517</b>	<b>0</b>
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Cx. mix	71	4295	
	Oc. japonicus	19	139	
	Oc. triseriatus	3	12	
	Oc. trivittatus	1	35	
<b>Grand Total</b>		<b>2535</b>	<b>64687</b>	<b>56</b>