

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 9

## *Culiseta melanura* Monitor July 25 – 31, 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.)	6.2	0.8	494	32	0	Waterford (Camden Co.)	0.7	0	90	12	0
Corbin City (Atlantic Co.)	1.1	0.5	217	28	0	Centerton (Salem Co.)	2.2	0.5	287	30	0
Dennisville (Cape May Co.)	8.7	3.7	2,674	70	0	Turkey Swamp (Monmouth Co.)	0.8	2.5	424	35	0

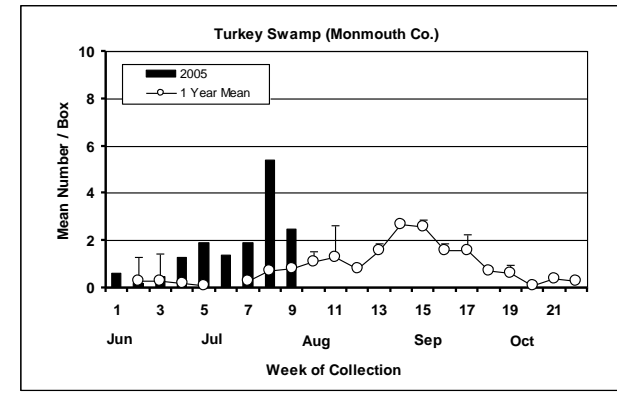
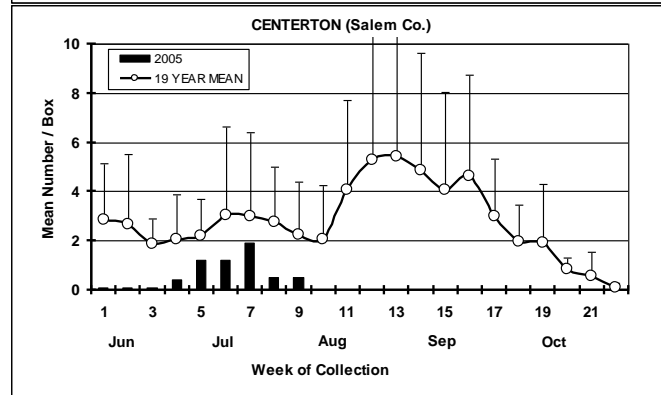
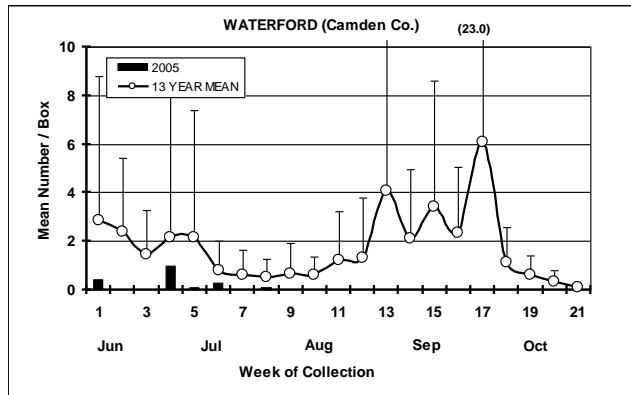
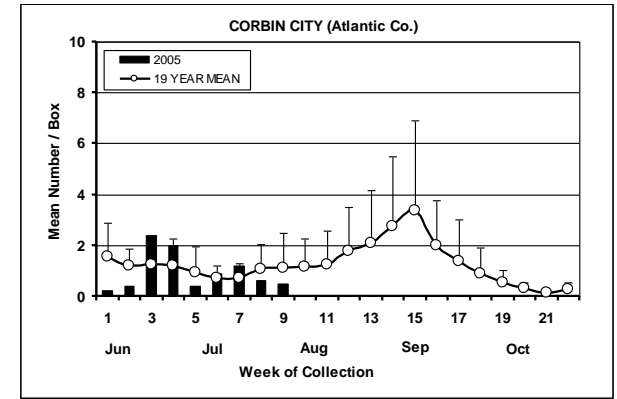
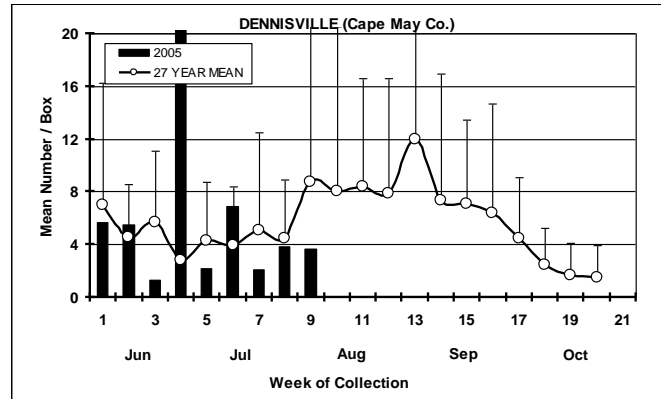
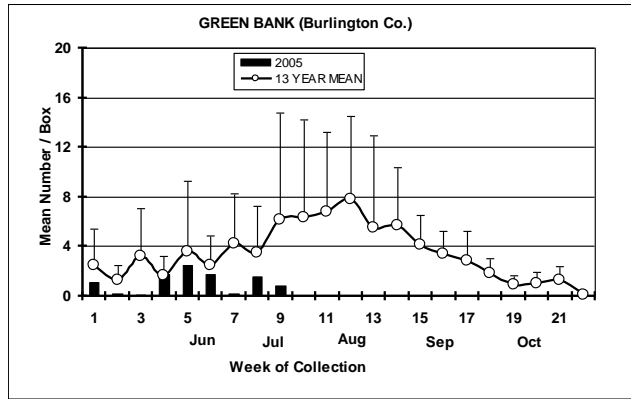
### Collections submitted to PHEL for West Nile Virus testing

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	106	78	22	672	280	39	5	5	48	13	163	36	148	1,615
Total Specimens	2,860	1,357	262	26,950	5,086	643	82	119	295	331	970	211	1,630	40,796
No. Positive Pools	1	0	0	6	0	0	0	0	0	0	0	0	0	7

**Remarks:** *Cs. melanura* populations have dropped noticeably at most of the sites being monitored for EEE. This may, in part, be the result of the exceptionally hot weather during the period the collections were made. *Cs. melanura* leave resting boxes during dry periods to find more humid resting sites. As a result, resting boxes underestimate real population levels during periods of hot, dry weather. EEE is active in the northeast, most recently being reported from Rhode Island. Every week without evidence of virus from this point on in the season, however, lessens the probability of amplifying EEE sufficiently for transfer to mammalian hosts. WNV has been detected in mosquitoes from 4 counties, to date (Atlantic, Bergen, Mercer & Ocean). All were obtained from bird-feeding *Culex*, indicating that virus is currently in the amplification phase. Infection rates in mosquitoes, however, are well behind levels seen in previous years. Last year's surveillance effort documented 26 positive mosquito pools at this point in the season.

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# Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through  
July 29, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	36	211	
Ae. cinereus	2	7	
Ae. vexans	39	643	
An. barberi	2	2	
An. bradleyi	2	4	
An. punctipennis	22	99	
An. quadrimaculatus	14	66	
Cq. perturbans	41	949	
Cs. melanura	280	5086	
Cs. morsitans	1	4	
Cx. erraticus	1	1	
Cx. mix	672	26950	6
Cx. pipiens	106	2860	1
Cx. restuans	78	1357	
Cx. salinarius	22	262	
Cx. territans	1	5	
Oc. abserratus	1	11	
Oc. atlanticus	1	5	
Oc. atropalpus	1	7	
Oc. canadensis	5	82	
Oc. cantator	12	31	
Oc. grossbecki	5	10	
Oc. japonicus	163	970	
Oc. mitchellae	1	1	
Oc. sollicitans	13	331	
Oc. sticticus	6	17	
Oc. stimulans	2	21	
Oc. taeniorhynchus	5	47	
Oc. triseriatus	48	295	
Oc. trivittatus	5	119	
Or. signifera	2	3	
Ps. ciliata	5	17	
Ps. columbiae	9	63	
Ps. ferox	10	234	
Ps. howardii	1	14	
Ur. sapphirina	1	12	
<b>Grand Total</b>	<b>1615</b>	<b>40796</b>	<b>7</b>

## Submissions by County through July 29, 2005

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>103</b>	<b>2839</b>	<b>1</b>
	Ae. albopictus	7	95	
	Ae. vexans	3	99	
	Cq. perturbans	10	367	
	Cs. melanura	30	249	
	Cx. mix	38	1772	1
	Oc. cantator	1	5	
	Oc. japonicus	4	30	
	Oc. sticticus	1	5	
	Oc. triseriatus	4	39	
	Or. signifera	1	2	
	Ps. ferox	4	176	
<b>Bergen</b>		<b>79</b>	<b>5044</b>	<b>3</b>
	Ae. vexans	3	9	
	Cq. perturbans	2	6	
	Cx. mix	59	4425	3
	Cx. pipiens	9	536	
	Cx. restuans	1	45	
	Cx. salinarius	3	7	
	Oc. japonicus	1	15	
	Oc. triseriatus	1	1	
<b>Burlington</b>		<b>109</b>	<b>1129</b>	<b>0</b>
	Ae. albopictus	7	42	
	Ae. cinereus	2	7	
	Ae. vexans	7	211	
	An. barberi	1	1	
	An. punctipennis	4	22	
	An. quadrimaculatus	3	4	
	Cq. perturbans	3	8	
	Cs. melanura	32	494	
	Cx. erraticus	1	1	
	Cx. mix	16	147	
	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. grossbecki	3	8	
	Oc. japonicus	5	31	
	Oc. mitchellae	1	1	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. triseriatus	7	52	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	1	

	Ps. columbiae	2	9	
	Ps. howardii	1	14	
	Ur. sapphirina	1	12	
<b>Camden</b>		<b>39</b>	<b>676</b>	<b>0</b>
	Ae. albopictus	2	5	
	An. punctipennis	1	8	
	An. quadrimaculatus	1	1	
	Cs. melanura	12	90	
	Cx. mix	15	524	
	Oc. japonicus	8	48	
<b>Cape May</b>		<b>148</b>	<b>4216</b>	<b>0</b>
	Ae. albopictus	2	9	
	Ae. vexans	1	8	
	An. quadrimaculatus	1	48	
	Cq. perturbans	3	83	
	Cs. melanura	93	3401	
	Cx. mix	3	28	
	Cx. pipiens	9	64	
	Cx. restuans	31	489	
	Cx. salinarius	4	82	
	Oc. triseriatus	1	4	
<b>Cumberland</b>		<b>90</b>	<b>280</b>	<b>0</b>
	Ae. albopictus	1	1	
	Ae. vexans	1	1	
	An. bradleyi	2	4	
	An. punctipennis	5	7	
	An. quadrimaculatus	5	7	
	Cq. perturbans	1	1	
	Cs. melanura	45	137	
	Cx. mix	14	69	
	Oc. canadensis	2	2	
	Oc. cantator	3	4	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	4	40	
	Ps. ferox	2	2	
<b>Essex</b>		<b>38</b>	<b>709</b>	<b>0</b>
	Ae. albopictus	3	9	
	Ae. vexans	5	125	
	Cx. mix	24	551	
	Oc. japonicus	5	15	
	Ps. ciliata	1	9	
<b>Gloucester</b>		<b>75</b>	<b>1323</b>	<b>0</b>
	Ae. albopictus	1	1	
	Ae. vexans	1	1	
	An. punctipennis	2	3	
	Cx. pipiens	52	1228	
	Oc. japonicus	16	85	
	Oc. triseriatus	3	5	

<b>Hudson</b>		<b>60</b>	<b>1546</b>	<b>0</b>
	Cx. mix	60	1546	
<b>Hunterdon</b>		<b>61</b>	<b>2478</b>	<b>0</b>
	Ae. vexans	1	1	
	An. punctipennis	1	1	
	Cx. mix	49	2386	
	Cx. pipiens	4	35	
	Cx. restuans	4	53	
	Oc. japonicus	2	2	
<b>Mercer</b>		<b>74</b>	<b>1995</b>	<b>2</b>
	Ae. albopictus	5	11	
	Ae. vexans	3	64	
	An. punctipennis	2	10	
	An. quadrimaculatus	1	3	
	Cs. melanura	2	3	
	Cx. mix	15	777	1
	Cx. pipiens	15	726	1
	Cx. restuans	21	294	
	Cx. salinarius	1	9	
	Oc. japonicus	7	44	
	Oc. trivittatus	1	4	
	Ps. ferox	1	50	
<b>Middlesex</b>		<b>105</b>	<b>3663</b>	<b>0</b>
	Ae. albopictus	3	29	
	Ae. vexans	2	17	
	Cq. perturbans	1	75	
	Cx. mix	70	3089	
	Cx. pipiens	6	70	
	Cx. restuans	6	235	
	Cx. salinarius	2	44	
	Oc. japonicus	7	36	
	Oc. sollicitans	1	4	
	Oc. triseriatus	3	16	
	Ps. ciliata	1	1	
	Ps. columbiae	3	47	
<b>Monmouth</b>		<b>140</b>	<b>2175</b>	<b>0</b>
	Ae. albopictus	4	8	
	Ae. vexans	8	64	
	An. barberi	1	1	
	Cq. perturbans	1	2	
	Cs. melanura	35	424	
	Cx. mix	48	1285	
	Cx. pipiens	3	32	
	Cx. restuans	3	10	
	Cx. salinarius	2	3	
	Oc. canadensis	1	4	
	Oc. cantator	7	21	
	Oc. japonicus	9	26	
	Oc. sollicitans	8	223	
	Oc. taeniorhynchus	1	7	

	Oc. triseriatus	8	63	
	Ps. columbiae	1	2	
<b>Morris</b>		<b>61</b>	<b>1431</b>	<b>0</b>
	Ae. vexans	2	17	
	Cq. perturbans	2	5	
	Cx. mix	31	1229	
	Oc. japonicus	20	137	
	Oc. triseriatus	5	39	
	Ps. ferox	1	4	
<b>Ocean</b>		<b>74</b>	<b>2018</b>	<b>1</b>
	Cs. melanura	1	1	
	Cs. morsitans	1	4	
	Cx. mix	42	1577	1
	Cx. restuans	6	80	
	Cx. salinarius	9	114	
	Oc. atlanticus	1	5	
	Oc. canadensis	1	75	
	Oc. cantator	1	1	
	Oc. japonicus	9	58	
	Oc. sollicitans	3	103	
<b>Passaic</b>		<b>45</b>	<b>1845</b>	<b>0</b>
	Cx. mix	32	1690	
	Oc. japonicus	9	134	
	Oc. triseriatus	4	21	
<b>Salem</b>		<b>102</b>	<b>1000</b>	<b>0</b>
	An. punctipennis	1	1	
	An. quadrimaculatus	1	1	
	Cq. perturbans	7	15	
	Cs. melanura	30	287	
	Cx. mix	41	652	
	Oc. japonicus	14	30	
	Oc. triseriatus	1	1	
	Ps. ciliata	2	6	
	Ps. columbiae	3	5	
	Ps. ferox	2	2	
<b>Somerset</b>		<b>63</b>	<b>1358</b>	<b>0</b>
	An. punctipennis	1	4	
	Cx. mix	39	1184	
	Oc. japonicus	16	124	
	Oc. triseriatus	7	46	
<b>Sussex</b>		<b>51</b>	<b>996</b>	<b>0</b>
	Ae. vexans	2	26	
	An. punctipennis	4	39	
	An. quadrimaculatus	1	1	
	Cq. perturbans	9	355	
	Cx. mix	17	414	
	Cx. pipiens	1	11	
	Oc. japonicus	12	67	
	Oc. triseriatus	3	7	

	Oc. trivittatus	2	76	
<b>Union</b>		<b>23</b>	<b>426</b>	<b>0</b>
	Ae. albopictus	1	1	
	An. quadrimaculatus	1	1	
	Cx. mix	3	104	
	Cx. pipiens	6	156	
	Cx. restuans	6	151	
	Oc. grossbecki	1	1	
	Oc. japonicus	5	12	
<b>Warren</b>		<b>74</b>	<b>3647</b>	<b>0</b>
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Cx. mix	56	3501	
	Oc. japonicus	13	74	
	Oc. triseriatus	1	1	
	Oc. trivittatus	1	35	
<b>Grand Total</b>		<b>1614</b>	<b>40794</b>	<b>7</b>