

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 6

## *Culiseta melanura* Monitor July 4 - 10, 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.)	2.5	1.7	361	21	0	Waterford (Camden Co.)	0.8	0.3	87	10	0
Corbin City (Atlantic Co.)	0.7	0.9	160	20	0	Centerton (Salem Co.)	3.1	1.2	144	17	0
Dennisville (Cape May Co.)	4.0	6.9	2,205	54	0	Turkey Swamp (Monmouth Co.)	-	1.4	161	22	0

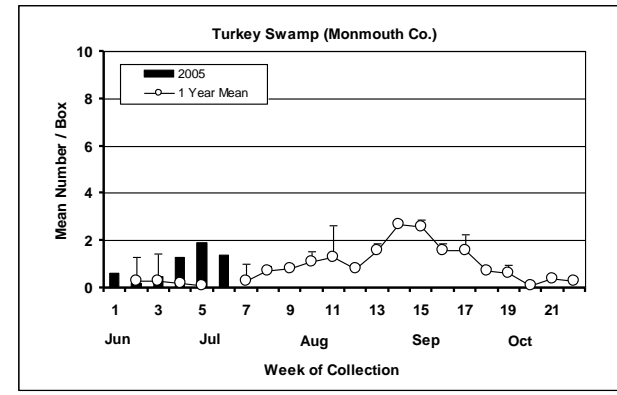
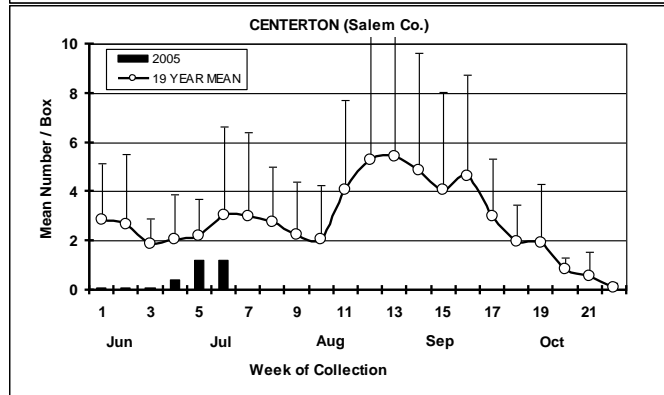
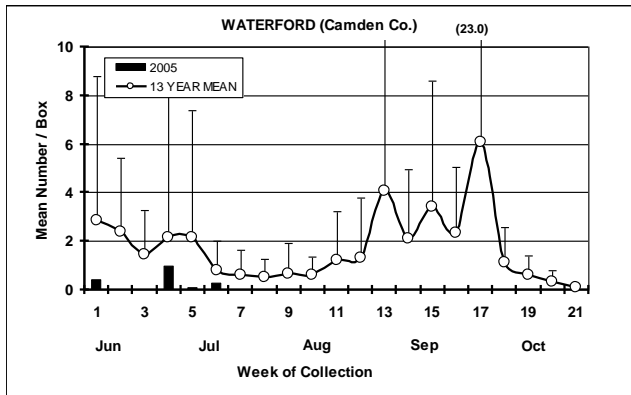
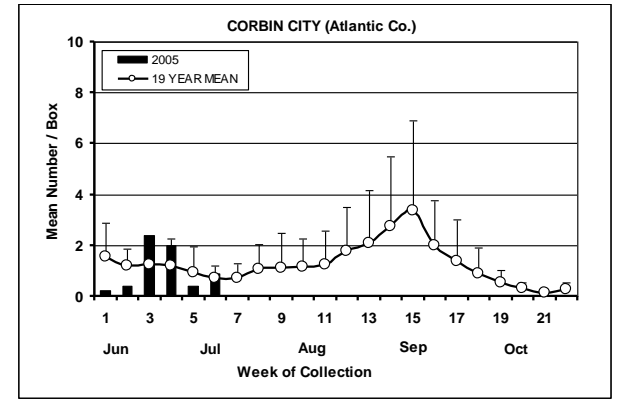
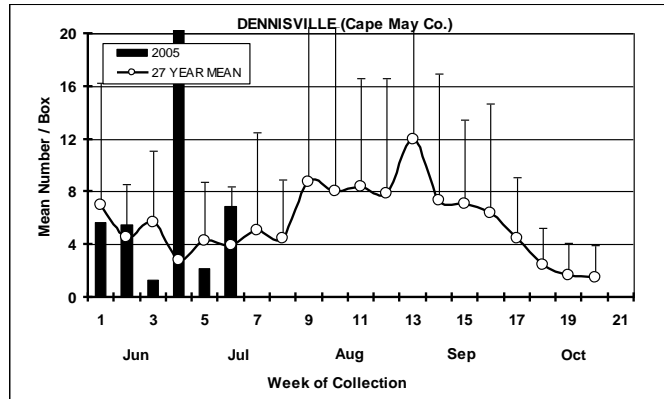
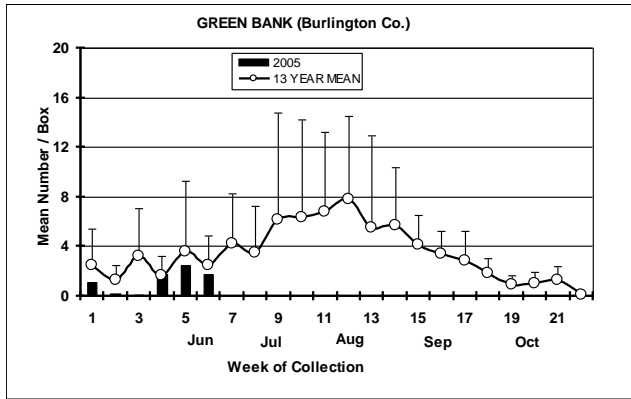
### Collections submitted to PHEL for West Nile Virus testing

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	17	17	3	251	171	5	2	2	10	2	46	3	30	559
Total Specimens	679	280	37	9,971	3,577	34	76	39	25	14	214	17	363	15,112
No. Positive Pools	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Remarks:** *Cs. melanura* populations normally reach their lowest levels during the month of July in NJ as adults from the overwintering generation of larvae steadily die off. The numbers of *Cs. melanura* in resting box collections do not generally increase until adult mosquitoes begin to emerge from eggs that were deposited by the spring generation. Timing of the second generation of adults is important for amplification of EEE. If it occurs early enough, virus can reach epiornitic levels. If it does not occur until mid-August, cool weather usually aborts the cycle. This year's population trend at Dennisville is atypical in view of the sizeable emergence that took place in June. Similar but smaller emergences are evident in the data sets from Corbin City and Turkey Swamp. There appear to be sufficient numbers of *Cs. melanura* at this time to amplify EEE if it is present in local birds. The results of virus tests over the next several weeks should determine if EEE will pose a threat this year. County mosquito control agencies are now submitting regular collections of specimens for WNV testing. To date, there has been no evidence of WNV activity in either mosquitoes or birds.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-06-05 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 July 8, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	3	17	
Ae. cinereus	2	7	
Ae. vexans	5	34	
An. barberi	1	1	
An. punctipennis	3	10	
An. quadrimaculatus	2	2	
Cq. perturbans	7	66	
Cs. melanura	171	3577	
Cx. mix	251	9971	
Cx. pipiens	17	679	
Cx. restuans	17	280	
Cx. salinarius	3	37	
Oc. abserratus	1	11	
Oc. canadensis	2	76	
Oc. cantator	3	4	
Oc. grossbecki	4	9	
Oc. japonicus	46	214	
Oc. sollicitans	2	14	
Oc. sticticus	2	9	
Oc. stimulans	2	21	
Oc. triseriatus	10	25	
Oc. trivittatus	2	39	
Ps. ciliata	1	1	
Ps. columbiae	1	4	
Ps. ferox	1	4	
<b>Grand Total</b>	<b>559</b>	<b>15112</b>	<b>0</b>

**Submissions by County through July 8, 2005**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>35</b>	<b>731</b>	<b>0</b>
	Cs. melanura	20	160	
	Cx. mix	11	550	
	Oc. triseriatus	2	5	
	Ae. albopictus	2	16	
<b>Bergen</b>		<b>21</b>	<b>1472</b>	<b>0</b>
	Cx. mix	15	1125	
	Cx. salinarius	1	2	
	Cx. restuans	1	45	
	Cx. pipiens	4	300	
<b>Burlington</b>		<b>46</b>	<b>478</b>	<b>0</b>
	Cs. melanura	21	361	
	Cx. mix	2	21	
	Oc. japonicus	1	1	
	An. punctipennis	2	6	
	Cq. perturbans	1	5	
	Ae. vexans	1	11	
	Oc. grossbecki	3	8	
	Oc. canadensis	1	1	
	An. quadrimaculatus	1	1	
	Oc. abserratus	1	11	
	Oc. stimulans	2	21	
	An. barberi	1	1	
	Ae. cinereus	2	7	
	Oc. sticticus	2	9	
	Cx. salinarius	1	3	
	Ps. ciliata	1	1	
	Oc. trivittatus	1	4	
	Ps. columbiae	1	4	
	Oc. triseriatus	1	2	
<b>Camden</b>		<b>20</b>	<b>303</b>	<b>0</b>
	Cs. melanura	10	87	
	Cx. mix	6	203	
	Oc. japonicus	3	12	
	Ae. albopictus	1	1	
<b>Cape May</b>		<b>84</b>	<b>2864</b>	<b>0</b>
	Cs. melanura	68	2631	
	Cq. perturbans	1	21	
	Cx. salinarius	1	32	
	Cx. restuans	13	177	
	Cx. pipiens	1	3	
<b>Cumberland</b>		<b>15</b>	<b>37</b>	<b>0</b>
	Cs. melanura	13	33	
	Cx. mix	2	4	

<b>Gloucester</b>		<b>15</b>	<b>371</b>	<b>0</b>
	Oc. japonicus	2	4	
	Ae. vexans	1	1	
	Oc. triseriatus	1	1	
	Cx. pipiens	11	365	
<b>Hudson</b>		<b>21</b>	<b>264</b>	<b>0</b>
	Cx. mix	21	264	
<b>Hunterdon</b>		<b>15</b>	<b>706</b>	<b>0</b>
	Cx. mix	15	706	
<b>Middlesex</b>		<b>59</b>	<b>2387</b>	<b>0</b>
	Cx. mix	55	2371	
	Oc. japonicus	4	16	
<b>Monmouth</b>		<b>52</b>	<b>786</b>	<b>0</b>
	Cs. melanura	22	161	
	Cx. mix	19	589	
	Oc. japonicus	4	12	
	Ae. vexans	1	5	
	Oc. triseriatus	1	1	
	Oc. cantator	3	4	
	Oc. sollicitans	2	14	
<b>Morris</b>		<b>32</b>	<b>679</b>	<b>0</b>
	Cx. mix	16	620	
	Oc. japonicus	11	33	
	Cq. perturbans	1	4	
	Ae. vexans	2	17	
	Oc. triseriatus	1	1	
	Ps. ferox	1	4	
<b>Ocean</b>		<b>15</b>	<b>405</b>	<b>0</b>
	Cx. mix	11	272	
	Oc. canadensis	1	75	
	Cx. restuans	3	58	
<b>Passaic</b>		<b>17</b>	<b>853</b>	<b>0</b>
	Cx. mix	13	822	
	Oc. japonicus	3	25	
	Oc. triseriatus	1	6	
<b>Salem</b>		<b>32</b>	<b>242</b>	<b>0</b>
	Cs. melanura	17	144	
	Cx. mix	9	90	
	Oc. japonicus	2	2	
	Cq. perturbans	2	4	
	An. quadrimaculatus	1	1	
	Oc. triseriatus	1	1	
<b>Somerset</b>		<b>18</b>	<b>272</b>	<b>0</b>
	Cx. mix	14	248	

	Oc. japonicus	3	19	
	Oc. triseriatus	1	5	
<b>Sussex</b>		<b>21</b>	<b>425</b>	<b>0</b>
	Cx. mix	13	356	
	Oc. japonicus	6	55	
	Oc. triseriatus	1	3	
	Cx. pipiens	1	11	
<b>Union</b>		<b>4</b>	<b>89</b>	<b>0</b>
	Cx. mix	2	85	
	Oc. japonicus	1	3	
	Oc. grossbecki	1	1	
<b>Warren</b>		<b>37</b>	<b>1748</b>	<b>0</b>
	Cx. mix	27	1645	
	Oc. japonicus	6	32	
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Oc. trivittatus	1	35	
<b>Grand Total</b>		<b>559</b>	<b>15112</b>	<b>0</b>

