

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 10

## *Culiseta melanura* Monitor August 4-8, 2003

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.)	7.0	5.2	1,193	54	4	Waterford (Camden Co.)	0.6	1.1	166	26	0
Corbin City (Atlantic Co.)	1.0	3.8	315	46	0	Centerton (Salem Co.)	1.9	5.1	1,353	53	0
Dennisville (Cape May Co.)	8.4	4.4	906	36	0	Turkey Swamp (Monmouth Co.)	NA	1.1	44	21	0

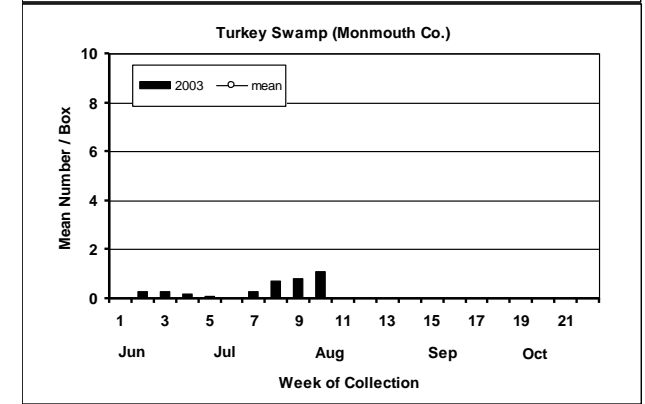
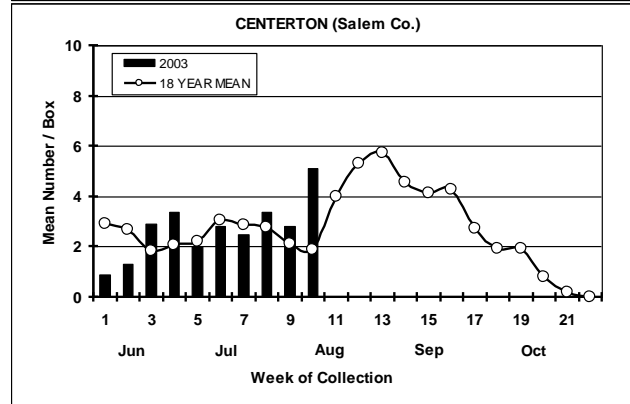
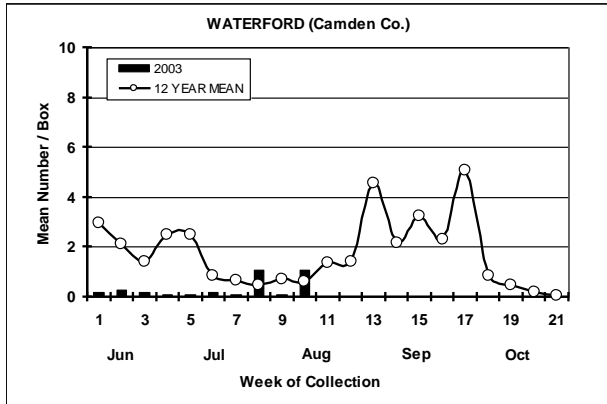
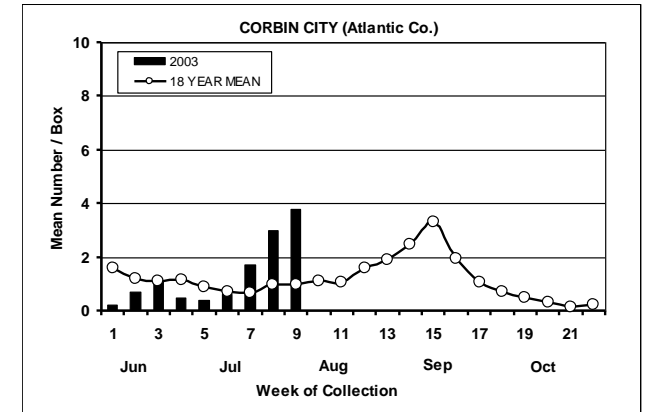
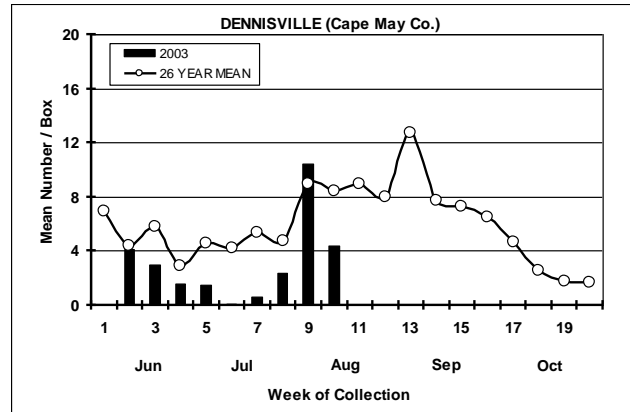
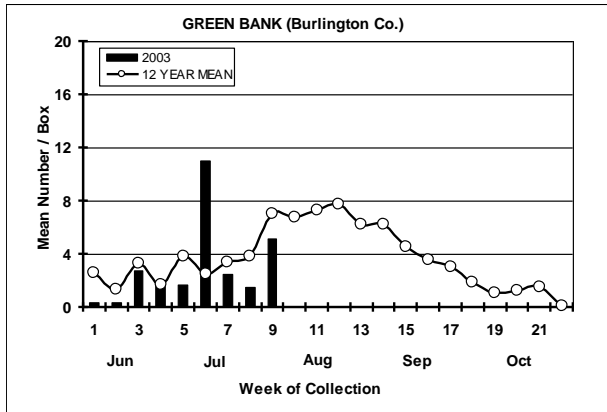
### Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>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	119	341	95	1,674	192	296	78	193	68	221	41	1,034	4,352
Total Specimens	2,313	9,135	2,385	51,385	4,063	7,481	1,577	1,329	1,637	1,565	144	15,700	98,714
No. Positive Pools	2	2	0	25	0	1	0	0	0	0	0	0	31

**Remarks:** *Cs. melanura* populations remain high at all of the study sites being monitored by NJ's Vector Surveillance Program. This week's collections from Corbin City and Centerton more than double the long-term mean. High populations of *Cs. melanura* signal an influx of newly emerged specimens. High levels of nulliparous specimens favor amplification of virus in local birds. EEE virus remains active at the Green Bank site with 4 positive mosquito pools, to date. A CO<sub>2</sub> baited light trap collection from the Mullica River drainage in Atlantic Co. also produced a pool of *Cs. melanura* that tested positive for EEE. WNV was detected in a pool of *Cs. melanura* from the Waterford resting box site underscoring the concept that bird feeding mosquitoes are responsible for the amplification process at this time of year. Small clusters of WNV positive mosquitoes are beginning to appear with no apparent geographic pattern at this point in time. Areas of the state with clustering include sections of Gloucester, and Atlantic counties in southern New Jersey and Morris, Warren and Bergen counties further north.

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# Culiseta melanura Population Graphs



## Mosquito Species Submitted for WNV Testing through August 8, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	41	144	
Ae. cinereus	15	67	
Ae. vexans	192	4063	
Aedes/Ochleratus sp.	2	3	
An. barberi	2	2	
An. bradleyi	9	76	
An. crucians	1	3	
An. punctipennis	136	1057	
An. quadrimaculatus	96	1937	
An. walkeri	6	149	
Cq. perturbans	65	1555	
Cs. inornata	1	2	
Cs. melanura	280	5314	1
Cx. erraticus	7	78	
Cx. mix	1674	51385	25
Cx. pipiens	119	2313	2
Cx. restuans	341	9135	2
Cx. salinarius	95	2385	
Cx. territans	41	291	
Oc. abserratus	3	9	
Oc. atlanticus	6	7	
Oc. atropalpus	2	7	
Oc. aurifer	8	176	
Oc. canadensis	296	7481	1
Oc. cantator	109	1814	
Oc. excrucians	10	73	
Oc. grossbecki	53	570	
Oc. japonicus	221	1565	
Oc. mitchellae	1	1	
Oc. sollicitans	68	1637	
Oc. sticticus	82	1463	
Oc. stimulans	25	276	
Oc. taeniorhynchus	6	38	
Oc. thibaulti	6	128	
Oc. triseriatus	193	1329	
Oc. trivittatus	78	1577	
Or. signifera	3	17	
Ps. columbiae	11	44	
Ps. ferox	45	538	
Ps. howardii	2	2	
Ur. sapphirina	1	3	
<b>Grand Total</b>	<b>4352</b>	<b>98714</b>	<b>31</b>

## Submissions by County through August 8, 2003

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>314</b>	<b>10437</b>	<b>11</b>
	Ae. albopictus	2	16	
	Ae. vexans	15	585	
	An. punctipennis	1	1	
	Cq. perturbans	7	230	
	Cs. melanura	61	1487	
	Cx. mix	81	3564	2
	Cx. restuans	9	150	
	Cx. salinarius	10	386	
	Cx. territans	3	17	
	Oc. canadensis	41	1616	1
	Oc. cantator	29	1135	
	Oc. grossbecki	4	59	
	Oc. japonicus	7	44	
	Oc. sollicitans	13	473	
	Oc. sticticus	5	124	
	Oc. triseriatus	12	198	
	Oc. trivittatus	3	119	
	Oc. thibaulti	5	127	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	2	45	
	Oc. atropalpus	1	6	
<b>Bergen</b>		<b>273</b>	<b>10433</b>	<b>4</b>
	Ae. albopictus	1	1	
	Ae. cinereus	1	10	
	Ae. vexans	10	411	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	170	8062	4
	Cx. pipiens	9	152	
	Cx. restuans	10	275	
	Cx. salinarius	15	689	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	26	474	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	
	Oc. trivittatus	1	20	
<b>Burlington</b>		<b>259</b>	<b>3678</b>	<b>0</b>
	Ae. albopictus	8	31	
	Ae. cinereus	4	4	
	Ae. vexans	16	205	
	An. punctipennis	13	83	
	An. quadrimaculatus	5	13	
	Cq. perturbans	1	45	
	Cs. melanura	57	1174	
	Cx. mix	67	1222	
	Cx. restuans	7	34	

Cx. salinarius	4	8	
Cx. territans	1	6	
Oc. canadensis	29	604	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	5	21	
Oc. sollicitans	4	70	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	8	17	
Oc. trivittatus	2	3	
An. barberi	1	1	
Or. signifera	1	1	
An. crucians	1	3	
Ps. ferox	2	33	
An. bradleyi	1	1	
Oc. mitchellae	1	1	
Ur. sapphirina	1	3	
Ps. howardii	1	1	
<b>Camden</b>	<b>110</b>	<b>1338</b>	<b>1</b>
Ae. albopictus	5	8	
Ae. vexans	5	8	
An. punctipennis	17	383	
An. quadrimaculatus	3	5	
Cq. perturbans	4	87	
Cs. melanura	25	148	1
Cx. mix	19	501	
Cx. restuans	9	76	
Cx. salinarius	3	31	
Cx. territans	4	33	
Oc. canadensis	4	13	
Oc. grossbecki	2	6	
Oc. sollicitans	1	1	
Oc. sticticus	1	1	
Oc. triseriatus	5	16	
An. bradleyi	2	20	
Oc. atropalpus	1	1	
<b>Cape May</b>	<b>288</b>	<b>6717</b>	<b>0</b>
An. punctipennis	5	16	
An. quadrimaculatus	37	1685	
Cs. melanura	40	981	
Cx. mix	151	2642	
Cx. restuans	11	348	
Cx. salinarius	4	9	
Cx. territans	8	93	
Oc. canadensis	15	599	
Oc. cantator	7	110	
Oc. grossbecki	6	222	
Oc. triseriatus	2	5	
An. bradleyi	2	7	

<b>Cumberland</b>	<b>128</b>	<b>1118</b>	<b>0</b>
Ae. vexans	7	17	
An. punctipennis	2	3	
An. quadrimaculatus	1	1	
Cs. melanura	3	5	
Cx. mix	13	53	
Cx. pipiens	6	185	
Cx. restuans	10	227	
Cx. salinarius	7	313	
Cx. territans	1	1	
Oc. canadensis	21	85	
Oc. cantator	2	3	
Oc. grossbecki	6	9	
Oc. japonicus	1	1	
Oc. sollicitans	6	16	
Oc. sticticus	10	75	
Oc. triseriatus	8	16	
Oc. trivittatus	4	11	
Ps. columbiae	2	9	
Oc. taeniorhynchus	5	37	
Ps. ferox	10	48	
Oc. atlanticus	3	3	
<b>Essex</b>	<b>118</b>	<b>1932</b>	<b>0</b>
Ae. vexans	18	487	
An. punctipennis	3	4	
An. quadrimaculatus	1	1	
Cx. mix	39	591	
Oc. canadensis	4	20	
Oc. japonicus	3	4	
Oc. sticticus	26	417	
Oc. stimulans	6	29	
Oc. triseriatus	1	1	
Oc. trivittatus	10	224	
Ps. ferox	7	154	
<b>Gloucester</b>	<b>211</b>	<b>5287</b>	<b>6</b>
Ae. albopictus	17	30	
Ae. vexans	6	107	
An. punctipennis	6	9	
An. quadrimaculatus	1	3	
Cx. mix	127	4602	6
Cx. pipiens	2	3	
Cx. restuans	6	160	
Cx. salinarius	5	149	
Cx. territans	1	4	
Oc. canadensis	2	17	
Oc. excrucians	2	3	
Oc. japonicus	18	53	
Oc. sticticus	2	5	
Oc. triseriatus	11	35	
Oc. trivittatus	1	4	
Ps. ferox	3	101	
An. bradleyi	1	2	

<b>Hudson</b>	<b>72</b>	<b>1362</b>	<b>0</b>
Ae. albopictus	1	18	
Ae. vexans	3	145	
Cq. perturbans	4	151	
Cx. mix	40	264	
Cx. pipiens	5	107	
Cx. restuans	7	321	
Cx. salinarius	6	300	
Oc. sollicitans	1	7	
Oc. triseriatus	2	2	
Oc. trivittatus	1	44	
Aedes/Ochleratus sp.	2	3	
<b>Hunterdon</b>	<b>145</b>	<b>5955</b>	<b>2</b>
Ae. vexans	1	4	
An. punctipennis	2	19	
Cx. mix	117	5641	2
Oc. japonicus	11	96	
Oc. triseriatus	9	31	
Oc. trivittatus	5	164	
<b>Mercer</b>	<b>345</b>	<b>7583</b>	<b>2</b>
Ae. cinereus	2	4	
Ae. vexans	18	489	
An. punctipennis	16	97	
An. quadrimaculatus	2	2	
Cq. perturbans	11	488	
Cs. melanura	2	2	
Cx. mix	12	264	
Cx. pipiens	28	478	1
Cx. restuans	140	4049	1
Cx. salinarius	13	107	
Cx. territans	3	6	
Oc. canadensis	45	1253	
Oc. cantator	1	2	
Oc. excrucians	3	7	
Oc. grossbecki	16	194	
Oc. japonicus	14	35	
Oc. sticticus	4	8	
Oc. triseriatus	4	17	
Oc. trivittatus	2	12	
Ps. columbiae	1	2	
Ps. ferox	6	65	
Oc. atlanticus	2	2	
<b>Middlesex</b>	<b>136</b>	<b>1781</b>	<b>1</b>
Ae. albopictus	1	1	
Ae. vexans	9	79	
An. punctipennis	4	4	
An. quadrimaculatus	2	2	
Cq. perturbans	2	8	
Cx. mix	83	1399	1
Oc. canadensis	5	47	
Oc. cantator	2	18	
Oc. excrucians	1	2	

	Oc. grossbecki	1	1	
	Oc. japonicus	3	13	
	Oc. sollicitans	10	115	
	Oc. triseriatus	4	8	
	Oc. trivittatus	5	50	
	Ps. columbiae	2	8	
	Ps. ferox	2	26	
<b>Monmouth</b>		<b>371</b>	<b>5423</b>	<b>1</b>
	Ae. albopictus	2	2	
	Ae. vexans	17	333	
	An. punctipennis	7	50	
	An. quadrimaculatus	5	11	
	Cq. perturbans	4	8	
	Cs. melanura	19	35	
	Cx. mix	140	1981	
	Cx. pipiens	27	788	overwintering
	Cx. restuans	20	401	
	Cx. salinarius	4	22	
	Cx. territans	2	9	
	Oc. abserratus	2	6	
	Oc. canadensis	30	507	
	Oc. cantator	20	86	
	Oc. excrucians	1	3	
	Oc. japonicus	20	56	
	Oc. sollicitans	20	615	
	Oc. sticticus	1	6	
	Oc. triseriatus	21	490	
	Oc. trivittatus	4	7	
	Oc. thibaulti	1	1	
	An. barberi	1	1	
	Oc. taeniorhynchus	1	1	
	Ps. ferox	2	4	
<b>Morris</b>		<b>161</b>	<b>3526</b>	<b>3</b>
	Ae. cinereus	2	17	
	Ae. vexans	8	110	
	An. punctipennis	7	34	1
	An. quadrimaculatus	2	6	
	An. walkeri	1	2	
	Cq. perturbans	6	208	
	Cx. mix	48	2082	3
	Cx. pipiens	9	137	
	Cx. restuans	15	418	
	Cx. salinarius	2	7	
	Cx. territans	1	3	
	Oc. aurifer	3	20	
	Oc. canadensis	11	274	
	Oc. grossbecki	2	5	
	Oc. japonicus	17	68	
	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	19	104	
	Oc. trivittatus	4	18	
	Ps. ferox	1	5	



<b>Ocean</b>	<b>287</b>	<b>5992</b>	<b>1</b>
Ae. albopictus	2	24	
Ae. vexans	17	344	
An. punctipennis	5	49	
An. quadrimaculatus	2	84	
Cq. perturbans	10	59	
Cs. inornata	1	2	
Cs. melanura	16	121	
Cx. mix	75	2538	
Cx. pipiens	2	6	
Cx. restuans	32	978	1
Cx. salinarius	10	293	
Cx. territans	7	49	
Oc. canadensis	26	567	
Oc. cantator	19	249	
Oc. grossbecki	2	3	
Oc. japonicus	15	97	
Oc. sollicitans	11	332	
Oc. sticticus	2	6	
Oc. triseriatus	23	136	
Oc. trivittatus	2	5	
Ps. columbiae	1	1	
Or. signifera	1	1	
Ps. ferox	5	46	
Oc. atlanticus	1	2	
<b>Passaic</b>	<b>114</b>	<b>3820</b>	<b>2</b>
An. punctipennis	2	5	
Cx. mix	67	3044	2
Cx. pipiens	6	33	
Cx. restuans	16	558	
Cx. salinarius	1	1	
Oc. canadensis	2	20	
Oc. japonicus	14	142	
Oc. sticticus	3	8	
Oc. triseriatus	3	9	
<b>Salem</b>	<b>312</b>	<b>5010</b>	<b>0</b>
Ae. albopictus	2	13	
Ae. vexans	11	77	
An. punctipennis	11	74	
An. quadrimaculatus	16	77	
Cq. perturbans	7	9	
Cs. melanura	56	1358	
Cx. erraticus	7	78	
Cx. mix	107	2144	
Cx. pipiens	16	320	
Cx. restuans	14	193	
Cx. salinarius	3	3	
Cx. territans	6	42	
Oc. canadensis	18	454	
Oc. cantator	18	110	
Oc. grossbecki	5	21	
Oc. sollicitans	1	1	
Oc. triseriatus	7	10	

	Ps. columbiae	5	24	
	Ps. ferox	1	1	
	An. bradleyi	1	1	
<b>Somerset</b>		<b>151</b>	<b>3395</b>	<b>1</b>
	Ae. cinereus	1	15	
	Ae. vexans	4	38	
	An. punctipennis	4	36	
	An. quadrimaculatus	3	4	
	Cx. mix	83	2495	1
	Cx. pipiens	4	84	
	Cx. restuans	10	315	
	Cx. salinarius	2	55	
	Cx. territans	2	14	
	Oc. canadensis	2	4	
	Oc. japonicus	17	81	
	Oc. triseriatus	7	9	
	Oc. trivittatus	8	232	
	Ps. ferox	3	12	
	Ps. howardii	1	1	
<b>Sussex</b>		<b>270</b>	<b>6519</b>	<b>1</b>
	Ae. cinereus	4	16	
	Ae. vexans	13	468	
	An. punctipennis	15	91	
	An. quadrimaculatus	5	18	
	Cq. perturbans	9	262	
	Cs. melanura	1	3	
	Cx. mix	93	2858	1
	Cx. pipiens	1	1	
	Cx. restuans	12	438	
	Cx. salinarius	2	6	
	Cx. territans	1	12	
	Oc. abserratus	1	3	
	Oc. aurifer	1	50	
	Oc. canadensis	11	285	
	Oc. excrucians	3	58	
	Oc. japonicus	31	317	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	22	79	
	Oc. trivittatus	16	621	
	Ps. ferox	1	3	
<b>Union</b>		<b>81</b>	<b>2220</b>	<b>0</b>
	Ae. vexans	2	7	
	Cx. mix	29	1081	
	Cx. pipiens	4	19	
	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	4	5	
	Oc. sollicitans	1	7	
	Oc. sticticus	2	4	
	Oc. triseriatus	3	4	

	Oc. trivittatus	2	5	
<b>Warren</b>		<b>206</b>	<b>5188</b>	<b>3</b>
	Ae. cinereus	1	1	
	Ae. vexans	12	149	
	An. punctipennis	14	91	
	An. quadrimaculatus	7	21	
	An. walkeri	5	147	
	Cx. mix	113	4357	3
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	4	50	
	Oc. cantator	5	67	
	Oc. japonicus	15	58	
	Oc. sticticus	2	13	
	Oc. stimulans	6	61	
	Oc. triseriatus	6	7	
	Oc. trivittatus	8	38	
<b>Grand Total</b>		<b>4352</b>	<b>98714</b>	<b>31</b>