

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 12

## *Culiseta melanura* Monitor

August 19 - 23, 2002

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.)	8.4	<0.1	1321	29	0	Waterford (Camden Co.)	1.5	0	6	6	0
Corbin City (Atlantic Co.)	1.7	0.1	77	27	0	Centerton (Salem Co.)	5.6	0.2	284	38	0
Dennisville (Cape May Co.)	8.3	0.1	201	28	0						

### West Nile Virus Collections Submitted for Virus Isolation Attempts

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>	<i>Cs. mel</i>	Other	TOTALS
No. Pools	435	268	155	1,993	309	149	136	377	92	266	105	169	895	5,349
Total Specimens	7,569	4,785	3,191	73,602	4,674	2,803	4,223	1,950	1,560	1,309	705	1,079	12,791	120,241
No. Positive Pools	22	7	7	168	4	0	1	2	1	4	2	0	7	225

**Remarks:** This year's *Culiseta melanura* populations represent the lowest levels on record for NJ's 25 year-old monitoring program. The drought year of 1999 had a similar impact on this species until August rains restored breeding habitat throughout the northeast and eventually produced a single positive EEE pool from the Waterford site at the very end of the season. Interestingly, 1999 was also the year when rainfall produced mosquito populations in the northeast that allowed WNV to take over as our primary mosquito-borne concern. New Jersey's WNV surveillance effort has now exceeded 5,000 mosquito pools, putting us halfway to the 10,000 pool goal we set for this year's surveillance product. Nearly 88% of the 225 positive pools have come from bird feeding mosquito species, similar to last year's calculations for this point in the season. The total number of positive pools from bridge vectors (28) is low due to lack of floodwater mosquitoes in the collection database but the MIR values are much higher in bridge vectors than we experienced a year ago *eg. Ae. vexans* (0.85), *Cx. salinarius* (2.19), *Ae. albopictus* (2.83). The NJ Dept. of Agriculture announced the first equine cases of this season with 1 confirmed horse each from Monmouth, Middlesex and Cumberland counties. The onset of equine cases indicate that WNV is now being acquired by mosquito species outside of the amplification phase of the virus cycle.

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**Submissions by County through August 23, 2002**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>291</b>	<b>7591</b>	<b>15</b>
	Ae. albopictus	6	14	
	Ae. vexans	23	498	
	An. bradleyi	1	22	
	An. punctipennis	1	2	
	An. quadrimaculatus	1	1	
	Cq. perturbans	5	31	
	Cs. melanura	26	86	
	Cx. erraticus	9	378	
	Cx. mix	102	3858	11
	Cx. pipiens	4	54	3
	Cx. restuans	7	29	
	Cx. salinarius	6	83	
	Oc. canadensis	11	501	
	Oc. cantator	32	1224	
	Oc. grossbecki	6	69	
	Oc. japonicus	3	20	
	Oc. sollicitans	12	257	
	Oc. sticticus	4	59	
	Oc. taeniorhynchus	4	26	
	Oc. thibaulti	1	1	
	Oc. triseriatus	15	77	
	Oc. trivittatus	1	3	
	Ps. ciliata	9	200	1
	Ps. ferox	2	98	
	(blank)			
<b>Bergen</b>		<b>405</b>	<b>18628</b>	<b>65</b>
	Ae. albopictus	3	10	
	Ae. cinereus	2	61	
	Ae. vexans	19	213	1
	An. punctipennis	8	30	
	An. quadrimaculatus	7	48	
	Cq. perturbans	3	13	
	Cs. melanura	3	17	
	Cx. mix	192	14230	43
	Cx. pipiens	41	1093	12
	Cx. restuans	26	636	2
	Cx. salinarius	38	1377	6
	Cx. territans	2	5	
	Oc. canadensis	5	66	
	Oc. japonicus	11	18	
	Oc. sollicitans	6	79	1
	Oc. sticticus	1	2	
	Oc. taeniorhynchus	1	1	
	Oc. thibaulti	15	619	

	Oc. triseriatus	11	34	
	Oc. trivittatus	6	70	
	Or. signifera	3	3	
	Ps. columbiae	1	1	
	Ps. ferox	1	2	
<b>Burlington</b>		<b>325</b>	<b>4589</b>	<b>8</b>
	Ae. albopictus	14	57	2
	Ae. vexans	29	271	1
	An. atropos	1	3	
	An. bradleyi	4	12	
	An. crucians	3	5	
	An. punctipennis	11	33	
	An. quadrimaculatus	7	9	
	Cq. perturbans	25	371	
	Cs. inornata	1	1	
	Cs. melanura	38	258	
	Cx. erraticus	4	8	
	Cx. mix	71	1542	4
	Cx. pipiens	11	178	
	Cx. restuans	13	294	
	Cx. salinarius	7	47	
	Cx. territans	1	1	
	Oc. atlanticus	1	1	
	Oc. canadensis	33	943	
	Oc. cantator	10	427	
	Oc. grossbecki	5	32	
	Oc. japonicus	9	14	
	Oc. japonicus	1	1	
	Oc. sollicitans	1	1	
	Oc. triseriatus	19	73	
	Oc. trivittatus	1	2	
	Ps. columbiae	1	1	1
	Ps. ferox	2	2	
	Ur. sapphirina	2	2	
<b>Camden</b>		<b>163</b>	<b>1872</b>	<b>4</b>
	Ae. albopictus	20	56	
	Ae. vexans	16	284	
	An. atropos	2	2	
	An. bradleyi	3	10	
	An. crucians	4	163	
	An. punctipennis	10	20	
	An. quadrimaculatus	6	8	
	Cq. perturbans	8	40	
	Cs. melanura	7	7	
	Cx. erraticus	1	1	
	Cx. mix	39	956	4
	Cx. pipiens	12	186	
	Cx. restuans	10	93	

	Oc. atropalpus	1	1	
	Oc. canadensis	4	11	
	Oc. triseriatus	15	25	
	Oc. trivittatus	2	3	
	Ps. columbiae	1	1	
	Ps. ferox	1	3	
	Ur. sapphirina	1	2	
<b>Cape May</b>		<b>300</b>	<b>4596</b>	<b>3</b>
	Ae. albopictus	2	5	
	Ae. vexans	3	29	
	An. bradleyi	14	358	1
	An. punctipennis	2	4	
	An. quadrimaculatus	17	774	
	Cq. perturbans	5	151	
	Cs. melanura	31	219	
	Cx. erraticus	7	350	
	Cx. pipiens	132	1567	1
	Cx. restuans	49	375	1
	Cx. salinarius	9	226	
	Cx. territans	1	4	
	Oc. canadensis	7	205	
	Oc. cantator	9	95	
	Oc. sollicitans	6	187	
	Oc. taeniorhynchus	3	37	
	Oc. triseriatus	3	10	
<b>Cumberland</b>		<b>173</b>	<b>1211</b>	<b>0</b>
	Ae. albopictus	3	10	
	Ae. vexans	13	29	
	An. bradleyi	1	1	
	An. punctipennis	3	5	
	An. quadrimaculatus	5	6	
	Cq. perturbans	5	6	
	Cs. melanura	10	16	
	Cx. mix	31	181	
	Cx. pipiens	6	190	
	Cx. restuans	3	46	
	Cx. salinarius	2	4	
	Oc. atropalpus	1	1	
	Oc. canadensis	24	186	
	Oc. cantator	19	177	
	Oc. grossbecki	7	8	
	Oc. sollicitans	10	13	
	Oc. taeniorhynchus	6	22	
	Oc. triseriatus	20	304	
	Oc. trivittatus	1	3	
	Ps. columbiae	2	2	
	Ps. howardii	1	1	

<b>ESSEX</b>	<b>109</b>	<b>1351</b>	<b>4</b>
Ae. albopictus	3	5	
Ae. vexans	3	11	
An. punctipennis	3	4	
An. quadrimaculatus	1	4	
Cx. pipiens	47	1051	3
Cx. restuans	21	131	
Cx. salinarius	2	3	
Oc. japonicus	15	49	1
Oc. sticticus	2	46	
Oc. triseriatus	8	34	
Oc. trivittatus	2	8	
Ps. ciliata	1	1	
Ps. ferox	1	4	
<b>Gloucester</b>	<b>215</b>	<b>3331</b>	<b>2</b>
Ae. albopictus	38	441	
Ae. vexans	8	31	
An. punctipennis	5	8	
An. quadrimaculatus	1	1	
Cq. perturbans	2	3	
Cx. erraticus	2	22	
Cx. mix	105	2412	2
Cx. pipiens	10	151	
Cx. restuans	6	33	
Cx. salinarius	4	20	
Oc. grossbecki	1	1	
Oc. triseriatus	26	141	
Ps. ferox	6	66	
Ps. howardii	1	1	
<b>Hudson</b>	<b>13</b>	<b>134</b>	<b>1</b>
Ae. vexans	1	1	
Cx. mix	10	130	1
Cx. pipiens	2	3	
<b>Hunterdon</b>	<b>280</b>	<b>9696</b>	<b>3</b>
Ae. vexans	3	19	
An. punctipennis	8	41	
An. quadrimaculatus	1	1	
Cx. mix	175	8527	3
Cx. pipiens	14	72	
Cx. restuans	20	481	
Cx. salinarius	3	13	
Oc. canadensis	2	14	
Oc. japonicus	25	202	
Oc. japonicus	1	4	
Oc. triseriatus	21	109	
Oc. trivittatus	5	201	
Ps. columbiae	2	12	

<b>Mercer</b>	<b>28</b>	<b>174</b>	<b>2</b>
Ae. vexans	2	2	
An. punctipennis	3	11	
An. quadrimaculatus	2	4	
Cx. mix	1	8	
Cx. pipiens	8	95	1
Cx. restuans	5	34	1
Cx. salinarius	2	2	
Oc. japonicus	2	4	
Oc. triseriatus	3	14	
<b>Middlesex</b>	<b>210</b>	<b>3543</b>	<b>21</b>
Ae. vexans	10	41	
An. crucians	1	2	
An. punctipennis	6	12	
An. quadrimaculatus	1	10	
Cq. perturbans	6	49	
Cx. mix	110	2464	19
Cx. pipiens	19	456	1
Cx. restuans	10	297	
Cx. salinarius	5	76	
Oc. canadensis	1	1	
Oc. cantator	8	57	
Oc. japonicus	8	19	1
Oc. sollicitans	4	12	
Oc. triseriatus	18	44	
Oc. trivittatus	3	3	
<b>Monmouth</b>	<b>415</b>	<b>4176</b>	<b>17</b>
Ae. albopictus	6	26	
Ae. vexans	21	156	
An. barberi	2	2	
An. punctipennis	12	15	1
An. quadrimaculatus	5	5	
Cq. perturbans	5	6	
Cx. mix	170	2126	13
Cx. pipiens	34	517	1
Cx. restuans	13	283	2
Cx. salinarius	8	32	
Oc. canadensis	10	41	
Oc. cantator	7	18	
Oc. japonicus	37	53	
Oc. sollicitans	31	758	
Oc. taeniorhynchus	1	3	
Oc. triseriatus	42	118	
Oc. trivittatus	10	16	
Ps. columbiae	1	1	

<b>Morris</b>	<b>279</b>	<b>7091</b>	<b>21</b>
Ae. cinereus	8	243	
Ae. vexans	30	807	2
An. punctipennis	17	92	1
An. quadrimaculatus	7	243	
An. walkeri	3	19	
Cq. perturbans	8	77	
Cx. mix	90	3325	12
Cx. pipiens	9	155	1
Cx. restuans	17	552	1
Cx. salinarius	7	186	1
Oc. canadensis	8	131	
Oc. grossbecki	3	101	
Oc. japonicus	29	138	1
Oc. sticticus	11	420	
Oc. stimulans	5	151	
Oc. triseriatus	9	36	1
Oc. trivittatus	16	404	1
Or. signifera	1	1	
Ur. sapphirina	1	10	
<b>Ocean</b>	<b>359</b>	<b>6408</b>	<b>12</b>
Ae. albopictus	9	79	
Ae. vexans	26	169	
An. bradleyi	6	30	
An. punctipennis	3	6	
An. quadrimaculatus	2	6	
Cq. perturbans	18	259	
Cs. melanura	15	57	
Cx. mix	131	4390	10
Cx. pipiens	12	164	1
Cx. restuans	11	160	
Cx. salinarius	19	297	
Cx. territans	1	1	
Oc. canadensis	18	246	
Oc. cantator	20	126	
Oc. grossbecki	1	1	
Oc. japonicus	7	26	1
Oc. sollicitans	18	241	
Oc. sticticus	1	1	
Oc. taeniorhynchus	3	24	
Oc. triseriatus	34	108	
Ps. ferox	4	17	

<b>Passaic</b>	<b>283</b>	<b>8903 30</b>
Ae. vexans	7	21
An. punctipennis	10	43
An. quadrimaculatus	7	48
An. walkeri	1	2
Cq. perturbans	4	10
Cx. mix	189	8155 30
Cx. pipiens	8	269
Cx. restuans	4	29
Cx. restuans	1	46
Cx. salinarius	3	4
Oc. canadensis	2	19
Oc. japonicus	25	149
Oc. triseriatus	17	93
Oc. trivittatus	5	15
<b>Salem</b>	<b>362</b>	<b>4029 2</b>
Ae. vexans	27	117
An. bradleyi	5	21
An. punctipennis	19	61 2
An. quadrimaculatus	56	680
An. walkeri	2	2
Cq. perturbans	9	12
Cs. melanura	39	419
Cx. erraticus	5	51
Cx. mix	104	1748
Cx. pipiens	17	106
Cx. restuans	5	41
Cx. salinarius	27	586
Cx. territans	1	2
Oc. canadensis	1	2
Oc. cantator	14	49
Oc. sollicitans	4	12
Oc. taeniorhynchus	1	2
Oc. thibaulti	2	3
Oc. triseriatus	24	115
<b>Somerset</b>	<b>254</b>	<b>6181 7</b>
Ae. vexans	6	12
An. barberi	1	1
An. punctipennis	8	20
An. quadrimaculatus	3	3
Cx. mix	135	5422 6
Cx. pipiens	13	301
Cx. restuans	13	217
Cx. salinarius	3	5
Oc. canadensis	3	5
Oc. japonicus	34	88
Oc. sticticus	1	1



	Oc. stimulans	1	1	
	Oc. triseriatus	30	68	1
	Oc. trivittatus	2	36	
	Ps. ferox	1	1	
<b>Sussex</b>		<b>466</b>	<b>15609</b>	<b>0</b>
	Ae. cinereus	10	95	
	Ae. vexans	50	1863	
	An. punctipennis	14	218	
	An. quadrimaculatus	12	145	
	An. walkeri	1	25	
	Cq. perturbans	43	1199	
	Cs. morsitans	1	1	
	Cx. mix	142	6166	
	Cx. pipiens	1	15	
	Cx. restuans	11	310	
	Cx. salinarius	5	208	
	Cx. territans	1	2	
	Oc. aurifer	1	24	
	Oc. canadensis	19	421	
	Oc. fitchii	1	49	
	Oc. japonicus	22	249	
	Oc. sticticus	21	651	
	Oc. stimulans	8	207	
	Oc. triseriatus	24	321	
	Oc. trivittatus	77	3438	
	Or. signifera	1	1	
	Ur. sapphirina	1	1	
<b>Union</b>		<b>111</b>	<b>2931</b>	<b>6</b>
	Ae. albopictus	1	2	
	Ae. vexans	5	26	
	An. punctipennis	4	7	
	An. quadrimaculatus	2	3	
	Cx. mix	32	1276	6
	Cx. pipiens	31	923	
	Cx. restuans	18	645	
	Cx. salinarius	4	21	
	Oc. japonicus	4	6	
	Oc. triseriatus	10	22	

<b>Warren</b>	<b>308</b>	<b>8197</b>	<b>2</b>
Ae. cinereus	1	3	
Ae. vexans	7	74	
An. crucians	1	5	
An. punctipennis	14	77	
An. quadrimaculatus	20	288	
An. walkeri	9	356	
Cq. perturbans	11	115	
Cx. mix	164	6686	2
Cx. pipiens	4	23	
Cx. restuans	5	53	
Cx. salinarius	1	1	
Oc. atropalpus	1	2	
Oc. canadensis	1	11	
Oc. japonicus	33	269	
Oc. stimulans	2	8	
Oc. triseriatus	28	204	
Oc. trivittatus	5	21	
Or. signifera	1	1	
<b>Grand Total</b>	<b>5,349</b>	<b>120,241</b>	<b>225</b>