

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 11

## *Culiseta melanura* Monitor

August 12 - 16, 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.)	8.1	0.1	131	28	0	Waterford (Camden Co.)	1.5	0	6	6	0
Corbin City (Atlantic Co.)	1.1	<0.1	75	25	0	Centerton (Salem Co.)	4.2	0.1	272	35	0
Dennisville (Cape May Co.)	9.3	0.1	196	26	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	498	343	147	1,755	291	148	130	315	79	223	77	135	762	4,903
Total Specimens	10,268	8,538	3,175	61,530	4,778	2,832	4,210	1,671	1,297	1,082	327	744	11,124	111,576
No. Positive Pools	17	7	4	120	3	0	1	2	0	1	1	0	8	164

**Remarks:** *Culiseta melanura* populations show no sign of recovering to levels where EEE would be amplified to epizootic levels. This week's resting box collections netted a total of only 15 specimens for the 5 sites combined, and averaged only 0.06 *Cs. melanura* per box. WNV continues to be active with 164 positive pools identified from the specimens submitted to date. Eighty-eight percent of the positive pools have come from bird feeding mosquito species suggesting that amplification of WNV is intense at this point in the season. The remaining 12% of the positive pools include a broad cross section of potential bridge vectors including representatives from floodwater habitats (*Ae. vexans*, *Oc. trivittatus*, *Oc. sollicitans*, *Ps. ciliata*), permanent water habitats (*Cx. salinarius*, *An. punctipennis*) and container habitats (*Oc. triseriatus*, *Oc. japonicus*).

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**Submissions by County through August 16, 2002**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>262</b>	<b>6802</b>	<b>8</b>
	<i>Aedes albopictus</i> (Skuse)	4	10	
	<i>Aedes vexans</i> (Meigen)	22	497	
	<i>Anopheles bradleyi</i> (King)	1	22	
	<i>Anopheles punctipennis</i> (Say)	1	2	
	<i>Anopheles quadrimaculatus</i> (Say)	1	1	
	<i>Coquillettidia perturbans</i> (Walker)	5	31	
	<i>Culex pipiens</i> (Linnaeus)	3	49	3
	<i>Culex restuans</i> (Theobald)	5	9	
	<i>Culex salinarius</i> (Coquillett)	6	83	
	<i>Culex</i> sp.	92	3483	4
	<i>Culiseta melanura</i> (Coquillett)	24	79	
	<i>Ochlerotatus canadensis canadensis</i> (Theobald)	11	501	
	<i>Ochlerotatus cantator</i> (Coquillett)	33	1251	
	<i>Ochlerotatus grossbecki</i> (Dyar & Knab)	6	69	
	<i>Ochlerotatus japonicus</i> (Theobald)	3	20	
	<i>Ochlerotatus sollicitans</i> (Walker)	12	247	
	<i>Ochlerotatus sticticus</i> (Meigen)	4	59	
	<i>Ochlerotatus taeniorhynchus</i> (Wiedemann)	3	15	
	<i>Ochlerotatus triseriatus</i> (Say)	14	73	
	<i>Ochlerotatus trivittatus</i> (Coquillett)	1	3	
	<i>Psorophora ciliata</i> (Fabricius)	9	200	1
	<i>Psorophora ferox</i> (von Humboldt)	2	98	
<b>Bergen</b>		<b>515</b>	<b>16695</b>	<b>46</b>
	<i>Aedes albopictus</i> (Skuse)	3	10	
	<i>Aedes cinereus</i> (Meigen)	4	66	
	<i>Aedes vexans</i> (Meigen)	25	378	1
	<i>Anopheles punctipennis</i> (Say)	10	44	
	<i>Anopheles quadrimaculatus</i> (Say)	6	50	
	<i>Coquillettidia perturbans</i> (Walker)	3	13	
	<i>Culex pipiens</i> (Linnaeus)	69	1755	9
	<i>Culex restuans</i> (Theobald)	84	2448	2
	<i>Culex salinarius</i> (Coquillett)	43	1511	3
	<i>Culex</i> sp.	200	9502	30
	<i>Culex territans</i> (Walker)	1	3	
	<i>Culiseta melanura</i> (Coquillett)	3	17	
	<i>Ochlerotatus canadensis canadensis</i> (Theobald)	5	66	
	<i>Ochlerotatus cantator</i> (Coquillett)	1	1	
	<i>Ochlerotatus japonicus</i> (Theobald)	13	21	
	<i>Ochlerotatus sollicitans</i> (Walker)	6	79	1
	<i>Ochlerotatus sticticus</i> (Meigen)	1	2	
	<i>Ochlerotatus taeniorhynchus</i> (Wiedemann)	1	1	
	<i>Ochlerotatus thibaulti</i> (Dyar & Knab)	15	619	
	<i>Ochlerotatus triseriatus</i> (Say)	11	33	
	<i>Ochlerotatus trivittatus</i> (Coquillett)	6	70	

Orthopodomyia signifera (Coquillett)	3	3	
Psorophora columbiae (Dyar & Knab)	1	1	
Psorophora ferox (von Humboldt)	1	2	
<b>Burlington</b>	<b>301</b>	<b>4283</b>	<b>3</b>
Aedes albopictus (Skuse)	14	57	2
Aedes vexans (Meigen)	28	270	
Anopheles bradleyi (King)	4	12	
Anopheles crucians (Wiedemann)	3	5	
Anopheles punctipennis (Say)	11	33	
Anopheles quadrimaculatus (Say)	7	9	
Coquillettidia perturbans (Walker)	24	370	
Culex erraticus (Dyar & Knab)	3	7	
Culex pipiens (Linnaeus)	9	138	
Culex restuans (Theobald)	9	142	
Culex salinarius (Coquillett)	7	47	
Culex sp.	68	1504	1
Culiseta inornata (Williston)	1	1	
Culiseta melanura (Coquillett)	31	231	
Ochlerotatus atlanticus (Dyar & Knab)	1	1	
Ochlerotatus atropalpus (Coquillett)	1	3	
Ochlerotatus canadensis canadensis (Theobald)	35	1003	
Ochlerotatus cantator (Coquillett)	8	337	
Ochlerotatus grossbecki (Dyar & Knab)	5	32	
Ochlerotatus japonicus (Theobald)	7	11	
Ochlerotatus sollicitans (Walker)	1	1	
Ochlerotatus triseriatus (Say)	19	63	
Ochlerotatus trivittatus (Coquillett)	1	2	
Psorophora ferox (von Humboldt)	2	2	
Uranotaenia sapphirina (Osten Sacken)	2	2	
<b>Camden</b>	<b>154</b>	<b>1879</b>	<b>4</b>
Aedes albopictus (Skuse)	19	55	
Aedes vexans (Meigen)	14	282	
Anopheles bradleyi (King)	2	2	
Anopheles crucians (Wiedemann)	4	163	
Anopheles punctipennis (Say)	10	20	
Anopheles quadrimaculatus (Say)	4	5	
Coquillettidia perturbans (Walker)	6	37	
Culex erraticus (Dyar & Knab)	1	1	
Culex pipiens (Linnaeus)	14	200	
Culex restuans (Theobald)	12	121	
Culex sp.	38	943	4
Culiseta melanura (Coquillett)	4	4	
Ochlerotatus atropalpus (Coquillett)	3	3	
Ochlerotatus canadensis canadensis (Theobald)	4	11	
Ochlerotatus triseriatus (Say)	15	25	
Ochlerotatus trivittatus (Coquillett)	2	3	
Psorophora columbiae (Dyar & Knab)	1	1	
Psorophora ferox (von Humboldt)	1	3	

<b>Cape_May</b>	<b>198</b>	<b>2977</b>	<b>2</b>
Aedes albopictus (Skuse)	2	5	
Aedes vexans (Meigen)	2	20	
Anopheles bradleyi (King)	9	259	
Anopheles punctipennis (Say)	2	4	
Anopheles quadrimaculatus (Say)	14	646	
Coquillettidia perturbans (Walker)	4	135	
Culex pipiens (Linnaeus)	85	1068	1
Culex restuans (Theobald)	33	284	1
Culex salinarius (Coquillett)	5	157	
Culex territans (Walker)	1	4	
Culiseta melanura (Coquillett)	23	97	
Ochlerotatus canadensis canadensis (Theobald)	6	183	
Ochlerotatus cantator (Coquillett)	7	79	
Ochlerotatus sollicitans (Walker)	1	11	
Ochlerotatus taeniorhynchus (Wiedemann)	1	15	
Ochlerotatus triseriatus (Say)	3	10	
<b>Cumberland</b>	<b>137</b>	<b>1022</b>	<b>0</b>
Aedes albopictus (Skuse)	3	10	
Aedes vexans (Meigen)	11	26	
Anopheles punctipennis (Say)	2	2	
Anopheles quadrimaculatus (Say)	4	5	
Coquillettidia perturbans (Walker)	4	5	
Culex pipiens (Linnaeus)	6	156	
Culex restuans (Theobald)	3	38	
Culex salinarius (Coquillett)	2	4	
Culex sp.	20	115	
Culiseta melanura (Coquillett)	7	13	
Ochlerotatus canadensis canadensis (Theobald)	20	167	
Ochlerotatus cantator (Coquillett)	15	172	
Ochlerotatus grossbecki (Dyar & Knab)	7	8	
Ochlerotatus japonicus (Theobald)	1	6	
Ochlerotatus sollicitans (Walker)	7	10	
Ochlerotatus taeniorhynchus (Wiedemann)	4	4	
Ochlerotatus triseriatus (Say)	18	278	
Ochlerotatus trivittatus (Coquillett)			
Psorophora columbiae (Dyar & Knab)	2	2	
Psorophora howardii (Coquillett)	1	1	
<b>Essex</b>	<b>65</b>	<b>800</b>	<b>1</b>
Aedes albopictus (Skuse)	1	1	
Aedes vexans (Meigen)	2	6	
Culex pipiens (Linnaeus)	25	483	
Culex restuans (Theobald)	15	198	
Ochlerotatus japonicus (Theobald)	10	29	1
Ochlerotatus sticticus (Meigen)	2	46	
Ochlerotatus triseriatus (Say)	6	24	
Ochlerotatus trivittatus (Coquillett)	2	8	

Psorophora ciliata (Fabricius)	1	1	
Psorophora ferox (von Humboldt)	1	4	
<b>Gloucester</b>	<b>150</b>	<b>2365</b>	<b>2</b>
Aedes albopictus (Skuse)	22	149	
Aedes vexans (Meigen)	5	15	
Anopheles punctipennis (Say)	3	4	
Anopheles quadrimaculatus (Say)	1	1	
Culex pipiens (Linnaeus)	2	2	
Culex sp.	86	1989	2
Ochlerotatus grossbecki (Dyar & Knab)	1	1	
Ochlerotatus triseriatus (Say)	23	137	
Psorophora ferox (von Humboldt)	6	66	
Psorophora howardii (Coquillett)	1	1	
<b>Hudson</b>	<b>9</b>	<b>123</b>	<b>1</b>
Aedes vexans (Meigen)	1	1	
Culex pipiens (Linnaeus)	2	3	
Culex sp.	6	119	1
<b>Hunterdon</b>	<b>231</b>	<b>8879</b>	<b>3</b>
Aedes vexans (Meigen)	3	19	
Anopheles punctipennis (Say)	3	26	
Anopheles quadrimaculatus (Say)	1	1	
Culex pipiens (Linnaeus)	14	362	
Culex restuans (Theobald)	13	425	
Culex salinarius (Coquillett)	3	13	
Culex sp.	157	7594	3
Ochlerotatus canadensis canadensis (Theobald)	2	14	
Ochlerotatus japonicus (Theobald)	18	141	
Ochlerotatus triseriatus (Say)	10	71	
Ochlerotatus trivittatus (Coquillett)	5	201	
Psorophora columbiae (Dyar & Knab)	2	12	
<b>Mercer</b>	<b>25</b>	<b>169</b>	<b>2</b>
Aedes vexans (Meigen)	2	2	
Anopheles punctipennis (Say)	3	11	
Anopheles quadrimaculatus (Say)	2	4	
Culex pipiens (Linnaeus)	8	95	1
Culex restuans (Theobald)	6	42	1
Culex salinarius (Coquillett)	2	2	
Ochlerotatus triseriatus (Say)	2	13	
<b>Middlesex</b>	<b>194</b>	<b>3165</b>	<b>13</b>
Aedes vexans (Meigen)	10	41	
Anopheles crucians (Wiedemann)	1	2	
Anopheles punctipennis (Say)	6	12	
Anopheles quadrimaculatus (Say)	1	10	
Coquillettia perturbans (Walker)	6	49	

Culex pipiens (Linnaeus)	18	435	1
Culex restuans (Theobald)	10	297	
Culex salinarius (Coquillett)	5	76	
Culex sp.	102	2128	12
Ochlerotatus canadensis canadensis (Theobald)	1	1	
Ochlerotatus cantator (Coquillett)	8	57	
Ochlerotatus japonicus (Theobald)	5	15	
Ochlerotatus sollicitans (Walker)	4	12	
Ochlerotatus triseriatus (Say)	14	27	
Ochlerotatus trivittatus (Coquillett)	3	3	
<b>Monmouth</b>	<b>405</b>	<b>4313</b>	<b>12</b>
Aedes albopictus (Skuse)	5	24	
Aedes vexans (Meigen)	19	154	
Anopheles barberi (Coquillett)	2	2	
Anopheles punctipennis (Say)	11	14	1
Anopheles quadrimaculatus (Say)	5	5	
Coquillettidia perturbans (Walker)	5	6	
Culex pipiens (Linnaeus)	82	1240	
Culex restuans (Theobald)	28	725	2
Culex salinarius (Coquillett)	6	22	
Culex sp.	112	1142	8
Ochlerotatus canadensis canadensis (Theobald)	11	43	
Ochlerotatus cantator (Coquillett)	5	12	
Ochlerotatus japonicus (Theobald)	36	51	
Ochlerotatus sollicitans (Walker)	29	747	
Ochlerotatus taeniorhynchus (Wiedemann)	1	3	
Ochlerotatus triseriatus (Say)	40	111	1
Ochlerotatus trivittatus (Coquillett)	7	11	
Psorophora columbiae (Dyar & Knab)	1	1	
<b>Morris</b>	<b>271</b>	<b>7088</b>	<b>18</b>
Aedes cinereus (Meigen)	8	243	
Aedes vexans (Meigen)	28	805	2
Anopheles punctipennis (Say)	12	48	1
Anopheles quadrimaculatus (Say)	3	56	
Anopheles walkeri (Theobald)	3	19	
Coquillettidia perturbans (Walker)	7	76	
Culex pipiens (Linnaeus)	10	160	1
Culex restuans (Theobald)	26	998	1
Culex salinarius (Coquillett)	7	186	1
Culex sp.	88	3122	10
Ochlerotatus canadensis canadensis (Theobald)	7	128	
Ochlerotatus cantator (Coquillett)	1	3	
Ochlerotatus grossbecki (Dyar & Knab)	3	101	
Ochlerotatus japonicus (Theobald)	26	113	
Ochlerotatus sticticus (Meigen)	12	444	
Ochlerotatus stimulans (Walker)	5	151	
Ochlerotatus triseriatus (Say)	10	37	1
Ochlerotatus trivittatus (Coquillett)	14	397	1

	<i>Orthopodomyia signifera</i> (Coquillett)	1	1	
<b>Ocean</b>		<b>323</b>	<b>5683</b>	<b>11</b>
	<i>Aedes albopictus</i> (Skuse)	3	4	
	<i>Aedes vexans</i> (Meigen)	23	170	
	<i>Anopheles bradleyi</i> (King)	6	30	
	<i>Anopheles punctipennis</i> (Say)	3	4	
	<i>Anopheles quadrimaculatus</i> (Say)	1	1	
	<i>Coquillettidia perturbans</i> (Walker)	17	240	
	<i>Culex pipiens</i> (Linnaeus)	13	184	1
	<i>Culex restuans</i> (Theobald)	11	160	
	<i>Culex salinarius</i> (Coquillett)	22	429	
	<i>Culex</i> sp.	110	3681	10
	<i>Culex territans</i> (Walker)	1	1	
	<i>Culiseta melanura</i> (Coquillett)	15	57	
	<i>Ochlerotatus canadensis canadensis</i> (Theobald)	21	259	
	<i>Ochlerotatus cantator</i> (Coquillett)	20	125	
	<i>Ochlerotatus grossbecki</i> (Dyar & Knab)	1	1	
	<i>Ochlerotatus japonicus</i> (Theobald)	4	21	
	<i>Ochlerotatus sollicitans</i> (Walker)	15	178	
	<i>Ochlerotatus sticticus</i> (Meigen)	1	1	
	<i>Ochlerotatus taeniorhynchus</i> (Wiedemann)	3	24	
	<i>Ochlerotatus triseriatus</i> (Say)	29	96	
	<i>Psorophora ferox</i> (von Humboldt)	4	17	
<b>Passaic</b>		<b>253</b>	<b>8189</b>	<b>25</b>
	<i>Aedes vexans</i> (Meigen)	7	21	
	<i>Anopheles punctipennis</i> (Say)	7	38	
	<i>Anopheles quadrimaculatus</i> (Say)	6	45	
	<i>Anopheles walkeri</i> (Theobald)	1	2	
	<i>Coquillettidia perturbans</i> (Walker)	3	9	
	<i>Culex pipiens</i> (Linnaeus)	9	315	
	<i>Culex restuans</i> (Theobald)	5	75	
	<i>Culex salinarius</i> (Coquillett)	3	4	
	<i>Culex</i> sp.	171	7470	25
	<i>Ochlerotatus canadensis canadensis</i> (Theobald)	2	19	
	<i>Ochlerotatus japonicus</i> (Theobald)	21	129	
	<i>Ochlerotatus triseriatus</i> (Say)	13	47	
	<i>Ochlerotatus trivittatus</i> (Coquillett)	5	15	
<b>Salem</b>		<b>350</b>	<b>4492</b>	<b>2</b>
	<i>Aedes vexans</i> (Meigen)	25	114	
	<i>Anopheles bradleyi</i> (King)	4	20	
	<i>Anopheles punctipennis</i> (Say)	17	48	2
	<i>Anopheles quadrimaculatus</i> (Say)	44	439	
	<i>Anopheles walkeri</i> (Theobald)	1	1	
	<i>Coquillettidia perturbans</i> (Walker)	7	9	
	<i>Culex erraticus</i> (Dyar & Knab)	4	44	
	<i>Culex pipiens</i> (Linnaeus)	40	1038	
	<i>Culex restuans</i> (Theobald)	11	90	

Culex salinarius (Coquillett)	28	614	
Culex sp.	99	1639	
Culex territans (Walker)	1	2	
Culiseta melanura (Coquillett)	28	246	
Ochlerotatus canadensis canadensis (Theobald)	1	2	
Ochlerotatus cantator (Coquillett)	16	83	
Ochlerotatus sollicitans (Walker)	4	12	
Ochlerotatus taeniorhynchus (Wiedemann)	1	2	
Ochlerotatus thibaulti (Dyar & Knab)	2	3	
Ochlerotatus triseriatus (Say)	17	86	
<b>Somerset</b>	<b>222</b>	<b>5287</b>	<b>4</b>
Aedes vexans (Meigen)	7	26	
Anopheles barberi (Coquillett)	1	1	
Anopheles punctipennis (Say)	7	27	
Anopheles quadrimaculatus (Say)	2	2	
Culex pipiens (Linnaeus)	49	1661	
Culex restuans (Theobald)	12	191	
Culex salinarius (Coquillett)	3	5	
Culex sp.	80	3200	4
Ochlerotatus canadensis canadensis (Theobald)	3	5	
Ochlerotatus japonicus (Theobald)	28	75	
Ochlerotatus sticticus (Meigen)	1	1	
Ochlerotatus stimulans (Walker)	1	1	
Ochlerotatus triseriatus (Say)	24	52	
Ochlerotatus trivittatus (Coquillett)	3	39	
Psorophora ferox (von Humboldt)	1	1	
<b>Sussex</b>	<b>427</b>	<b>15354</b>	<b>0</b>
Aedes cinereus (Meigen)	8	91	
Aedes vexans (Meigen)	47	1835	
Anopheles punctipennis (Say)	13	198	
Anopheles quadrimaculatus (Say)	11	231	
Anopheles walkeri (Theobald)	1	25	
Coquillettidia perturbans (Walker)	37	1184	
Culex pipiens (Linnaeus)	6	38	
Culex restuans (Theobald)	13	343	
Culex sp.	137	6146	
Ochlerotatus aurifer (Coquillett)	1	24	
Ochlerotatus canadensis canadensis (Theobald)	18	419	
Ochlerotatus fitchii (Felt & Young)	1	49	
Ochlerotatus japonicus (Theobald)	15	224	
Ochlerotatus sticticus (Meigen)	20	627	
Ochlerotatus stimulans (Walker)	7	206	
Ochlerotatus triseriatus (Say)	14	275	
Ochlerotatus trivittatus (Coquillett)	77	3438	
Orthopodomyia signifera (Coquillett)	1	1	



<b>Union</b>	<b>108</b>	<b>2842</b>	<b>5</b>
Aedes albopictus (Skuse)	1	2	
Aedes vexans (Meigen)	5	26	
Anopheles punctipennis (Say)	4	7	
Anopheles quadrimaculatus (Say)	2	3	
Culex pipiens (Linnaeus)	31	869	
Culex restuans (Theobald)	18	645	
Culex salinarius (Coquillett)	4	21	
Culex sp.	31	1247	5
Ochlerotatus japonicus (Theobald)	4	6	
Ochlerotatus triseriatus (Say)	8	16	
<b>Warren</b>	<b>303</b>	<b>9169</b>	<b>2</b>
Aedes cinereus (Meigen)	1	3	
Aedes vexans (Meigen)	5	70	
Anopheles crucians (Wiedemann)	1	5	
Anopheles punctipennis (Say)	7	55	
Anopheles quadrimaculatus (Say)	16	283	
Anopheles walkeri (Theobald)	7	350	
Coquillettidia perturbans (Walker)	9	113	
Culex pipiens (Linnaeus)	3	17	
Culex restuans (Theobald)	29	1307	
Culex salinarius (Coquillett)	1	1	
Culex sp.	158	6506	2
Ochlerotatus atropalpus (Coquillett)	1	2	
Ochlerotatus canadensis canadensis (Theobald)	1	11	
Ochlerotatus japonicus (Theobald)	32	220	
Ochlerotatus stimulans (Walker)	2	8	
Ochlerotatus triseriatus (Say)	25	197	
Ochlerotatus trivittatus (Coquillett)	4	20	
Orthopodomyia signifera (Coquillett)	1	1	
<b>Grand Total</b>	<b>4903</b>	<b>111576</b>	<b>164</b>