

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 19

## *Culiseta melanura* Monitor

October 3 - 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.)	0.9	2.1	1,183	69	5	Waterford (Camden Co.)	0.8	0	199	29	0
Corbin City (Atlantic Co.)	0.5	1.5	641	67	0	Centerton (Salem Co.)	1.9	2.2	954	71	3
Dennisville (Cape May Co.)	2.5	0.9	5,067	138	2	Turkey Swamp (Monmouth Co.)	0.6	0.4	1,019	75	5

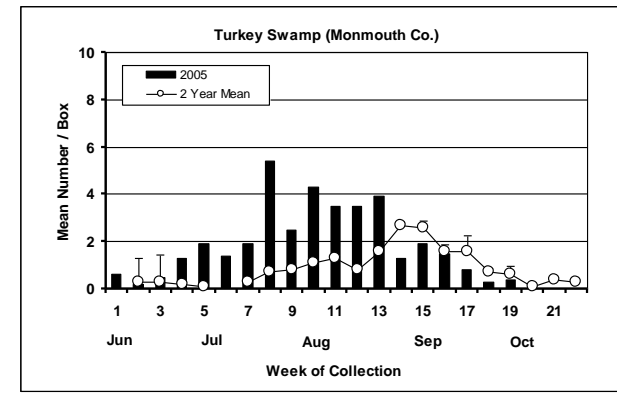
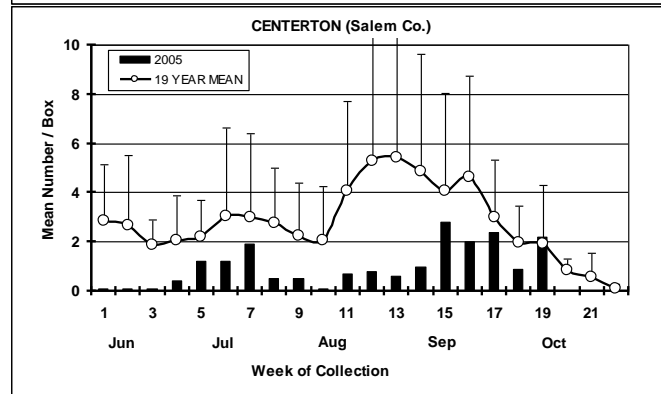
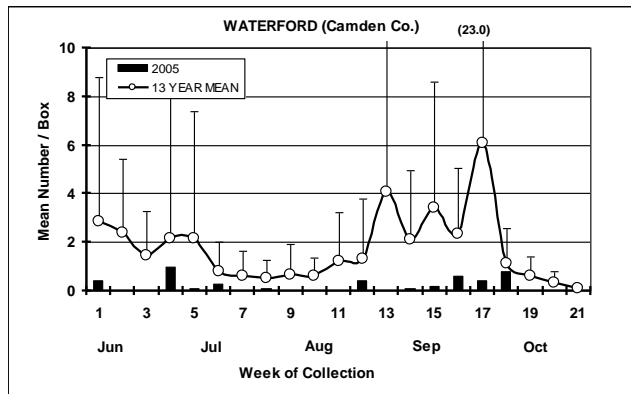
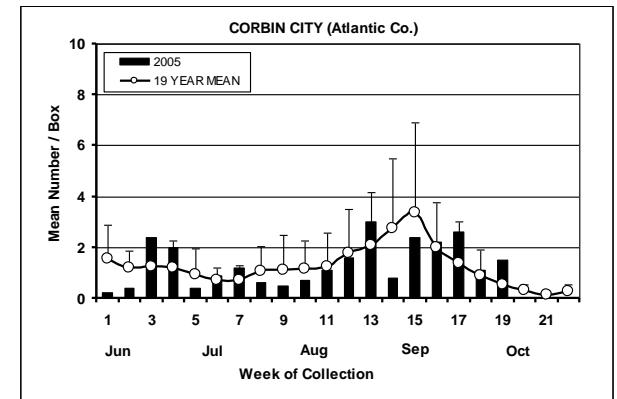
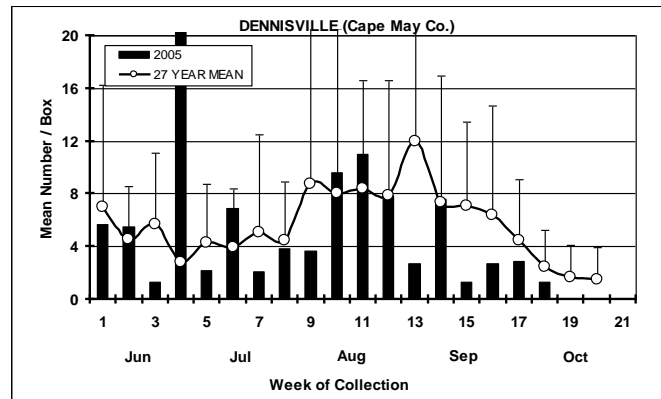
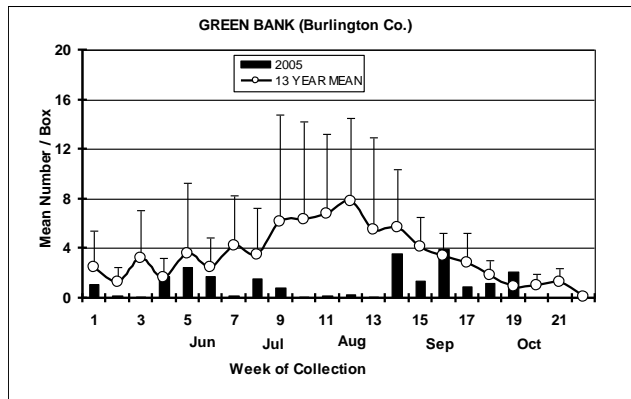
### Collections submitted to PHEL for West Nile Virus testing

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	535	191	107	1,948	606	148	30	13	253	73	490	281	682	5,357
Total Specimens	15,440	2,294	2,182	69,175	11,085	2,199	365	363	990	2,404	2,526	2,194	7,873	119,090
No. Positive Pools	70	4	0	191	1	1	0	0	1	0	1	0	1	270

**Remarks:** Evidence for continued EEE amplification in southern New Jersey was documented this week with a single positive from *Cs. melanura* collected September 27 at the Centerton site in Salem Co. A total of 15 EEE positive pools have been collected from 4 of the 6 study sites that have been monitored since late May. Four equine cases were documented during the epizootic period. Absence of suitable bridge vectors prevented widespread transfer to mammalian hosts this year. WNV amplification continues at low levels in some areas. Although positives have come mainly from bird feeding mosquito species, WNV has been documented in mammal feeders including: *Ae. vexans*, *Oc. triseriatus*, *Oc. japonicus* and *An. quadrimaculatus*. A third human case of WNV was recently confirmed from Union County with onset of symptoms determined to be September 17.

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# Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through  
October 7, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	281	2194	
Ae. cinereus	2	7	
Ae. vexans	148	2199	1
An. atropos	1	10	
An. barberi	4	6	
An. bradleyi	44	595	
An. crucians	2	3	
An. earlei	1	16	
An. punctipennis	120	661	
An. quadrimaculatus	110	2206	1
An. walkeri	2	6	
Cq. perturbans	91	1317	
Cs. inornata	2	2	
Cs. melanura	606	11085	1
Cs. morsitans	1	4	
Cx. erraticus	63	1463	
Cx. mix	1948	69175	191
Cx. pipiens	535	15440	70
Cx. restuans	191	2294	4
Cx. salinarius	107	2182	
Cx. territans	31	108	
Oc. abserratus	1	11	
Oc. atlanticus	11	27	
Oc. atropalpus	1	7	
Oc. canadensis	30	365	
Oc. cantator	24	54	
Oc. grossbecki	6	11	
Oc. japonicus	490	2526	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	73	2404	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	45	492	
Oc. triseriatus	253	990	1
Oc. trivittatus	13	363	
Or. signifera	8	9	
Ps. ciliata	8	26	
Ps. columbiae	38	341	
Ps. cyanescens	1	1	
Ps. ferox	36	352	
Ps. howardii	4	24	
Ur. sapphirina	13	55	
<b>Grand Total</b>	<b>5357</b>	<b>119090</b>	<b>270</b>

**Submissions by County through October 7, 2005**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>331</b>	<b>8078</b>	<b>13</b>
	Ae. albopictus	29	390	
	Ae. vexans	14	170	
	An. bradleyi	2	4	
	An. punctipennis	1	1	
	An. quadrimaculatus	3	8	
	Cq. perturbans	14	404	
	Cs. melanura	77	726	
	Cx. erraticus	23	837	
	Cx. mix	87	3612	13
	Cx. pipiens	3	48	
	Cx. restuans	1	1	
	Cx. salinarius	6	193	
	Cx. territans	3	4	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	12	64	
	Oc. sollicitans	30	1307	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	2	12	
	Oc. triseriatus	13	62	
	Or. signifera	1	2	
	Ps. ferox	6	212	
<b>Bergen</b>		<b>338</b>	<b>17423</b>	<b>95</b>
	Ae. albopictus	10	73	
	Ae. vexans	14	210	
	An. punctipennis	4	6	
	Cq. perturbans	3	7	
	Cs. melanura	4	72	
	Cx. mix	185	13402	76
	Cx. pipiens	64	2864	18
	Cx. restuans	11	96	1
	Cx. salinarius	16	591	
	Oc. cantator	1	2	
	Oc. japonicus	12	70	
	Oc. sollicitans	3	3	
	Oc. triseriatus	8	23	
	Ps. ferox	1	1	
	Ur. sapphirina	2	3	
<b>Burlington</b>		<b>305</b>	<b>4541</b>	<b>3</b>
	Ae. albopictus	27	301	
	Ae. cinereus	2	7	
	Ae. vexans	25	979	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	8	80	
	An. quadrimaculatus	8	25	1
	Cq. perturbans	10	34	
	Cs. inornata	1	1	

	Cs. melanura	78	1335	
	Cx. erraticus	8	31	
	Cx. mix	35	621	2
	Cx. pipiens	5	107	
	Cx. restuans	1	1	
	Cx. salinarius	5	96	
	Cx. territans	3	7	
	Oc. abserratus	1	11	
	Oc. atlanticus	1	2	
	Oc. atropalpus	1	7	
	Oc. canadensis	4	12	
	Oc. cantator	1	3	
	Oc. grossbecki	3	8	
	Oc. japonicus	19	154	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	19	146	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	3	4	
	Ps. columbiae	12	151	
	Ps. cyanescens	1	1	
	Ps. ferox	2	22	
	Ps. howardii	3	23	
	Ur. sapphirina	2	22	
<b>Camden</b>		<b>125</b>	<b>1371</b>	<b>3</b>
	Ae. albopictus	17	90	
	Ae. vexans	4	42	
	An. crucians	1	1	
	An. punctipennis	4	15	
	An. quadrimaculatus	7	15	
	Cs. melanura	29	200	
	Cx. mix	39	928	3
	Cx. pipiens	1	1	
	Oc. japonicus	17	68	
	Oc. triseriatus	2	2	
	Or. signifera	2	2	
	Ur. sapphirina	2	7	
<b>Cape May</b>		<b>455</b>	<b>12204</b>	<b>2</b>
	Ae. albopictus	27	139	
	Ae. vexans	1	8	
	An. bradleyi	15	468	
	An. punctipennis	2	79	
	An. quadrimaculatus	20	1062	
	Cq. perturbans	10	143	
	Cs. melanura	190	6561	1
	Cx. erraticus	6	107	
	Cx. mix	17	527	1
	Cx. pipiens	67	1463	
	Cx. restuans	47	602	

	Cx. salinarius	23	646	
	Cx. territans	7	53	
	Oc. cantator	1	2	
	Oc. japonicus	4	13	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	7	25	
<b>Cumberland</b>		<b>209</b>	<b>960</b>	<b>0</b>
	Ae. albopictus	4	4	
	Ae. vexans	9	13	
	An. bradleyi	11	47	
	An. punctipennis	6	8	
	An. quadrimaculatus	7	9	
	Cq. perturbans	2	2	
	Cs. melanura	55	179	
	Cx. mix	48	331	
	Oc. atlanticus	6	8	
	Oc. canadensis	3	3	
	Oc. cantator	5	6	
	Oc. grossbecki	1	1	
	Oc. sollicitans	4	9	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	34	319	
	Oc. triseriatus	2	2	
	Ps. ferox	9	16	
<b>Essex</b>		<b>192</b>	<b>3366</b>	<b>15</b>
	Ae. albopictus	21	60	
	Ae. vexans	10	154	
	An. quadrimaculatus	4	8	
	Cq. perturbans	1	1	
	Cx. mix	123	2988	15
	Oc. japonicus	22	126	
	Oc. sticticus	1	3	
	Oc. triseriatus	5	12	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	3	3	
<b>Gloucester</b>		<b>195</b>	<b>4358</b>	<b>4</b>
	Ae. albopictus	14	44	
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	An. quadrimaculatus	2	2	
	Cx. mix	1	45	
	Cx. pipiens	146	4161	4
	Oc. japonicus	19	89	
	Oc. triseriatus	6	8	
	Ps. columbiae	1	1	
<b>Hudson</b>		<b>186</b>	<b>5533</b>	<b>24</b>
	Cx. mix	186	5533	24
<b>Hunterdon</b>		<b>242</b>	<b>8472</b>	<b>4</b>

	Ae. albopictus	1	4	
	Ae. vexans	4	40	
	An. bradleyi	1	10	
	An. punctipennis	7	13	
	An. quadrimaculatus	1	3	
	Cx. mix	173	7681	4
	Cx. pipiens	25	517	
	Cx. restuans	16	173	
	Cx. salinarius	1	4	
	Cx. territans	2	3	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	
	Ps. columbiae	1	1	
<b>Mercer</b>		<b>366</b>	<b>8729</b>	<b>52</b>
	Ae. albopictus	35	292	
	Ae. vexans	17	239	1
	An. bradleyi	1	2	
	An. punctipennis	12	49	
	An. quadrimaculatus	7	44	
	Cq. perturbans	3	72	
	Cs. melanura	4	13	
	Cx. erraticus	6	53	
	Cx. mix	41	2257	7
	Cx. pipiens	119	4539	41
	Cx. restuans	52	688	2
	Cx. salinarius	7	126	
	Oc. japonicus	39	146	1
	Oc. triseriatus	11	44	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
<b>Middlesex</b>		<b>388</b>	<b>7815</b>	<b>22</b>
	Ae. albopictus	23	150	
	Ae. vexans	9	38	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	4	24	
	Cq. perturbans	3	105	
	Cs. melanura	2	6	
	Cx. erraticus	1	1	
	Cx. mix	160	5833	17
	Cx. pipiens	66	900	4
	Cx. restuans	26	318	
	Cx. salinarius	9	99	
	Cx. territans	1	1	
	Oc. japonicus	38	159	
	Oc. sollicitans	4	9	
	Oc. triseriatus	25	73	1
	Or. signifera	2	2	
	Ps. ciliata	1	1	

	Ps. columbiae	8	58	
	Ur. sapphirina	2	12	
<b>Monmouth</b>		<b>429</b>	<b>5398</b>	<b>10</b>
	Ae. albopictus	24	42	
	Ae. vexans	18	143	
	An. barberi	1	1	
	An. punctipennis	9	27	
	An. quadrimaculatus	3	19	
	Cq. perturbans	5	9	
	Cs. melanura	80	1006	
	Cx. erraticus	4	10	
	Cx. mix	141	2969	7
	Cx. pipiens	21	197	3
	Cx. restuans	6	13	
	Cx. salinarius	4	5	
	Cx. territans	5	21	
	Oc. atlanticus	1	1	
	Oc. canadensis	13	121	
	Oc. cantator	10	27	
	Oc. japonicus	29	125	
	Oc. sollicitans	16	461	
	Oc. taeniorhynchus	3	21	
	Oc. triseriatus	28	153	
	Ps. columbiae	3	4	
	Ps. ferox	5	23	
<b>Morris</b>		<b>173</b>	<b>3348</b>	<b>1</b>
	Ae. vexans	2	17	
	An. punctipennis	4	10	
	An. quadrimaculatus	2	2	
	Cq. perturbans	2	5	
	Cx. mix	93	2826	
	Cx. pipiens	2	115	
	Cx. restuans	2	47	1
	Oc. japonicus	44	248	
	Oc. triseriatus	21	74	
	Ps. ferox	1	4	
<b>Ocean</b>		<b>321</b>	<b>6066</b>	<b>5</b>
	Ae. albopictus	39	577	
	Ae. vexans	9	40	
	An. barberi	1	1	
	An. bradleyi	2	6	
	An. punctipennis	1	1	
	An. quadrimaculatus	1	5	
	Cq. perturbans	8	76	
	Cs. melanura	14	49	
	Cs. morsitans	1	4	
	Cx. erraticus	1	1	
	Cx. mix	104	3933	5
	Cx. pipiens	3	186	
	Cx. restuans	15	101	
	Cx. salinarius	35	421	
	Cx. territans	3	5	



	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	5	9	
	Oc. japonicus	37	170	
	Oc. sollicitans	6	171	
	Oc. triseriatus	23	69	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
<b>Passaic</b>		<b>157</b>	<b>4085</b>	<b>11</b>
	Ae. albopictus	5	16	
	Ae. vexans	1	4	
	An. punctipennis	3	10	
	Cx. mix	125	3730	11
	Oc. japonicus	19	304	
	Oc. triseriatus	4	21	
<b>Salem</b>		<b>291</b>	<b>3516</b>	<b>0</b>
	Ae. vexans	1	1	
	An. bradleyi	8	23	
	An. punctipennis	14	210	
	An. quadrimaculatus	27	913	
	Cq. perturbans	8	18	
	Cs. melanura	72	937	
	Cx. erraticus	13	416	
	Cx. mix	87	899	
	Cx. restuans	2	2	
	Cx. salinarius	1	1	
	Cx. territans	5	11	
	Oc. japonicus	32	55	
	Oc. triseriatus	9	10	
	Ps. ciliata	2	6	
	Ps. columbiae	6	10	
	Ps. ferox	4	4	
<b>Somerset</b>		<b>171</b>	<b>3960</b>	<b>1</b>
	Ae. vexans	1	55	
	An. barberi	1	3	
	An. punctipennis	5	20	
	Cx. mix	106	3319	1
	Oc. japonicus	35	230	
	Oc. triseriatus	19	95	
	Oc. trivittatus	4	238	
<b>Sussex</b>		<b>202</b>	<b>1874</b>	<b>0</b>
	Ae. vexans	4	40	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	26	89	
	An. quadrimaculatus	6	13	
	An. walkeri	2	6	
	Cq. perturbans	19	408	
	Cs. melanura	1	1	
	Cx. mix	51	806	
	Cx. pipiens	1	11	

	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	45	216	
	Oc. sticticus	1	16	
	Oc. triseriatus	31	128	
	Oc. trivittatus	5	80	
	Ur. sapphirina	4	9	
<b>Union</b>		<b>78</b>	<b>1077</b>	<b>3</b>
	Ae. albopictus	5	12	
	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	7	37	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	17	392	3
	Cx. pipiens	12	331	
	Cx. restuans	11	251	
	Cx. territans	2	3	
	Oc. grossbecki	1	1	
	Oc. japonicus	9	19	
	Oc. punctor	1	1	
	Oc. triseriatus	4	10	
	Or. signifera	1	1	
	Ur. sapphirina	1	2	
<b>Warren</b>		<b>202</b>	<b>6914</b>	<b>2</b>
	Ae. vexans	1	1	
	An. punctipennis	4	7	
	An. quadrimaculatus	1	17	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	129	6543	2
	Oc. japonicus	48	246	
	Oc. triseriatus	15	32	
	Oc. trivittatus	1	35	
<b>Grand Total</b>		<b>5356</b>	<b>119088</b>	<b>270</b>