

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 14

## *Culiseta melanura* Monitor August 29 – September 4, 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.)	5.7	3.6	706	47	2	Waterford (Camden Co.)	2.1	0.1	113	17	0
Corbin City (Atlantic Co.)	2.7	0.8	396	47	0	Centerton (Salem Co.)	4.9	1.0	448	49	0
Dennisville (Cape May Co.)	7.4	7.6	4616	117	1	Turkey Swamp (Monmouth Co.)	2.7	1.3	884	57	4

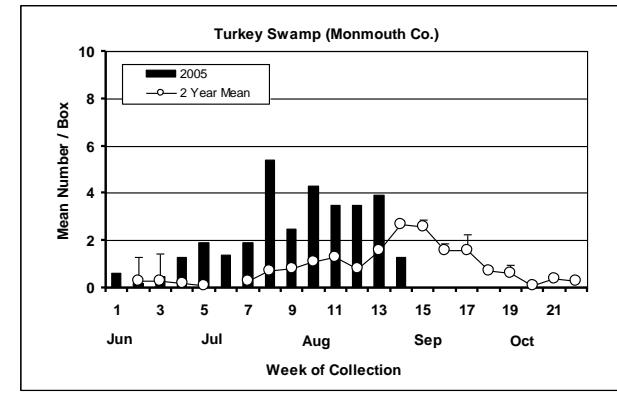
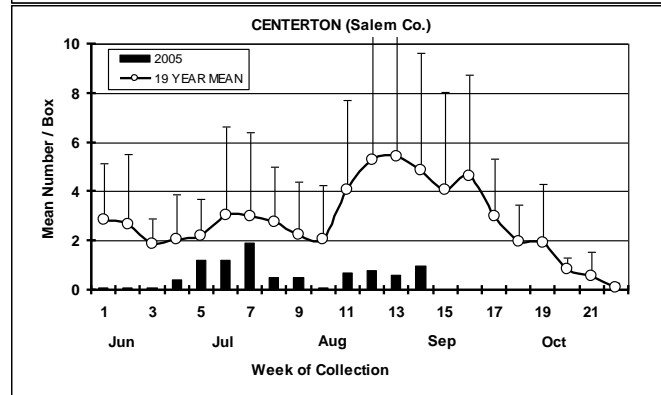
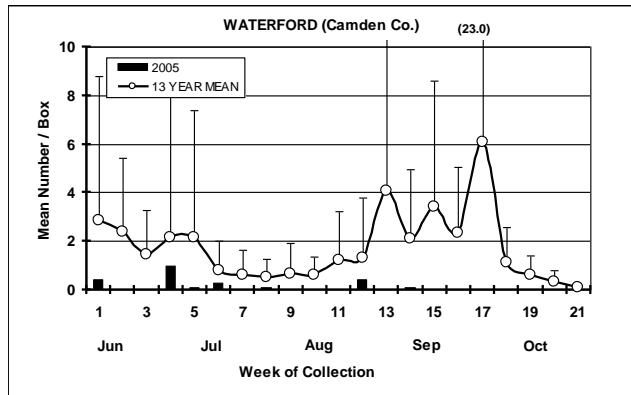
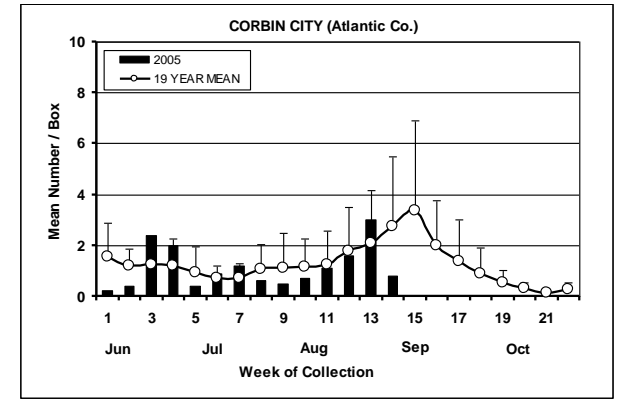
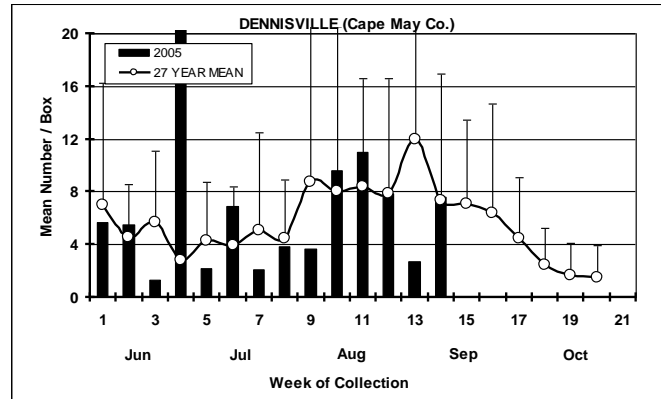
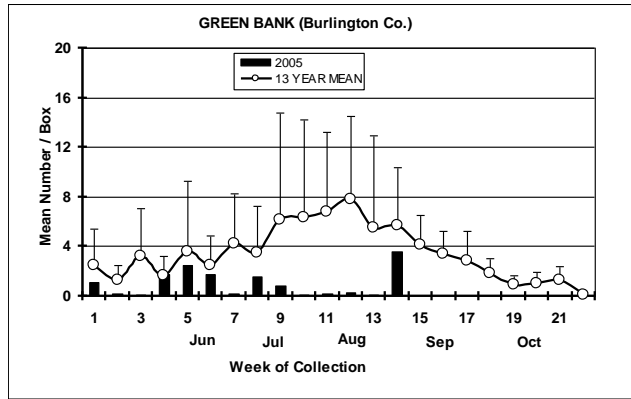
### Collections submitted to PHEL for West Nile Virus testing

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	316	138	72	1,268	420	83	26	8	134	36	330	129	381	3,341
Total Specimens	10,566	1,972	1,365	50,168	7,827	1,144	333	123	626	1,328	1,903	1,081	4,440	82,866
No. Positive Pools	44	3	0	102	0	0	0	0	0	0	1	0	0	150

**Remarks:** The NJ Dept. of Agriculture announced the 4<sup>th</sup> equine EEE case this week, a 1 year-old mare from Monmouth Co. with an onset date of August 29. Virus surveillance from the Turkey Swamp study site in that area produced 3 additional positives in *Cs. melanura*, confirming that EEE is especially active along the northern limit of the NJ Pine Barrens at the present time. This year's distribution of cases (Gloucester, Burlington, Ocean & Monmouth Counties) indicates that EEE has been amplified in local bird populations over an exceptionally wide geographic area of the state this year. Fortunately, floodwater bridge vector populations have remained low throughout the amplification period as a result of this year's diminished summer rainfall pattern. Late season *Cq. perturbans* populations, however, have appeared in some areas providing an efficient permanent water vector for additional cases in September. WNV appears confined to the amplification phase of the cycle in our geographic area with all but 1 of the positives reported from *Culex* mosquitoes, to date. Fourteen of NJ's 21 counties have found WNV in the mosquitoes they are sampling but infection rates are relatively low for this time of year in most areas.

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# Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through  
September 2, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	129	1081	
Ae. cinereus	2	7	
Ae. vexans	83	1144	
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	19	222	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	64	345	
An. quadrimaculatus	41	800	
Cq. perturbans	73	1271	
Cs. melanura	420	7827	
Cs. morsitans	1	4	
Cx. erraticus	21	646	
Cx. mix	1268	50168	102
Cx. pipiens	316	10566	44
Cx. restuans	138	1972	3
Cx. salinarius	72	1365	
Cx. territans	13	57	
Oc. abserratus	1	11	
Oc. atlanticus	7	21	
Oc. atropalpus	1	7	
Oc. canadensis	26	333	
Oc. cantator	21	51	
Oc. grossbecki	6	11	
Oc. japonicus	330	1903	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	36	1328	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	22	250	
Oc. triseriatus	134	626	
Oc. trivittatus	8	123	
Or. signifera	5	6	
Ps. ciliata	6	23	
Ps. columbiae	28	244	
Ps. ferox	27	327	
Ps. howardii	3	20	
Ur. sapphirina	2	15	
<b>Grand Total</b>	<b>3341</b>	<b>82866</b>	<b>150</b>

Submissions by County through September 2, 2005

County	Species	Pools	Mosquitoes	Positives
<b>Atlantic</b>		<b>195</b>	<b>5426</b>	<b>4</b>
	Ae. albopictus	14	303	
	Ae. vexans	6	118	
	Cq. perturbans	13	402	
	Cs. melanura	50	448	
	Cx. erraticus	11	550	
	Cx. mix	65	2821	4
	Cx. salinarius	1	18	
	Cx. territans	1	2	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	8	54	
	Oc. sollicitans	9	423	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	1	8	
	Oc. triseriatus	5	44	
	Or. signifera	1	2	
	Ps. ferox	6	212	
<b>Bergen</b>		<b>206</b>	<b>11605</b>	<b>54</b>
	Ae. albopictus	2	2	
	Ae. vexans	7	28	
	An. punctipennis	1	2	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	122	9150	42
	Cx. pipiens	43	2147	11
	Cx. restuans	8	67	1
	Cx. salinarius	7	88	
	Oc. cantator	1	2	
	Oc. japonicus	6	37	
	Oc. triseriatus	3	4	
<b>Burlington</b>		<b>201</b>	<b>2659</b>	<b>1</b>
	Ae. albopictus	16	147	
	Ae. cinereus	2	7	
	Ae. vexans	13	383	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	5	24	
	An. quadrimaculatus	5	17	
	Cq. perturbans	7	27	
	Cs. melanura	50	783	
	Cx. erraticus	3	4	
	Cx. mix	25	326	1
	Cx. pipiens	3	92	
	Cx. restuans	1	1	
	Cx. salinarius	4	74	
	Cx. territans	3	7	
	Oc. abserratus	1	11	

	Oc. atlanticus	1	2	
	Oc. atropalpus	1	7	
	Oc. canadensis	2	8	
	Oc. cantator	1	3	
	Oc. grossbecki	3	8	
	Oc. japonicus	13	85	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	11	118	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	2	3	
	Ps. columbiae	8	132	
	Ps. ferox	1	9	
	Ps. howardii	2	19	
	Ur. sapphirina	1	12	
<b>Camden</b>		<b>70</b>	<b>850</b>	<b>0</b>
	Ae. albopictus	10	35	
	Ae. vexans	2	39	
	An. punctipennis	3	14	
	An. quadrimaculatus	3	8	
	Cs. melanura	16	113	
	Cx. mix	22	581	
	Oc. japonicus	12	58	
	Oc. triseriatus	1	1	
	Or. signifera	1	1	
<b>Cape May</b>		<b>337</b>	<b>9905</b>	<b>0</b>
	Ae. albopictus	13	53	
	Ae. vexans	1	8	
	An. bradleyi	8	277	
	An. punctipennis	1	75	
	An. quadrimaculatus	12	778	
	Cq. perturbans	10	143	
	Cs. melanura	156	5688	
	Cx. erraticus	2	51	
	Cx. mix	14	379	
	Cx. pipiens	37	871	
	Cx. restuans	38	565	
	Cx. salinarius	21	643	
	Cx. territans	4	40	
	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	5	17	
<b>Cumberland</b>		<b>135</b>	<b>538</b>	<b>0</b>
	Ae. albopictus	1	1	
	Ae. vexans	2	2	

	An. bradleyi	2	4	
	An. punctipennis	6	8	
	An. quadrimaculatus	5	7	
	Cq. perturbans	1	1	
	Cs. melanura	55	179	
	Cx. mix	31	219	
	Oc. atlanticus	2	2	
	Oc. canadensis	3	3	
	Oc. cantator	4	5	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	14	95	
	Ps. ferox	4	7	
<b>Essex</b>		<b>118</b>	<b>2293</b>	<b>8</b>
	Ae. albopictus	9	32	
	Ae. vexans	8	133	
	An. quadrimaculatus	1	1	
	Cq. perturbans	1	1	
	Cx. mix	77	1991	8
	Oc. japonicus	15	112	
	Oc. sticticus	1	3	
	Oc. triseriatus	2	7	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	2	2	
<b>Gloucester</b>		<b>125</b>	<b>2569</b>	<b>1</b>
	Ae. albopictus	5	14	
	Ae. vexans	2	2	
	An. punctipennis	3	5	
	An. quadrimaculatus	1	1	
	Cx. mix	1	45	
	Cx. pipiens	91	2409	1
	Oc. japonicus	17	86	
	Oc. triseriatus	4	6	
	Ps. columbiae	1	1	
<b>Hudson</b>		<b>133</b>	<b>4267</b>	<b>21</b>
	Cx. mix	133	4267	21
<b>Hunterdon</b>		<b>168</b>	<b>6327</b>	<b>1</b>
	Ae. vexans	2	2	
	An. bradleyi	1	10	
	An. punctipennis	5	11	
	An. quadrimaculatus	1	3	
	Cx. mix	116	5629	1
	Cx. pipiens	18	473	
	Cx. restuans	13	170	
	Cx. salinarius	1	4	
	Cx. territans	1	2	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	

<b>Mercer</b>		<b>266</b>	<b>6609</b>	<b>35</b>
	Ae. albopictus	21	189	
	Ae. vexans	15	218	
	An. bradleyi	1	2	
	An. punctipennis	7	22	
	An. quadrimaculatus	4	7	
	Cq. perturbans	2	66	
	Cs. melanura	2	3	
	Cx. erraticus	3	39	
	Cx. mix	20	1127	2
	Cx. pipiens	90	3868	30
	Cx. restuans	46	662	2
	Cx. salinarius	6	124	
	Oc. japonicus	32	108	1
	Oc. triseriatus	6	10	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
<b>Middlesex</b>		<b>240</b>	<b>6624</b>	<b>9</b>
	Ae. albopictus	8	61	
	Ae. vexans	5	31	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	2	9	
	Cq. perturbans	3	105	
	Cx. mix	124	5233	8
	Cx. pipiens	25	582	1
	Cx. restuans	14	261	
	Cx. salinarius	7	92	
	Cx. territans	1	1	
	Oc. japonicus	21	109	
	Oc. sollicitans	3	8	
	Oc. triseriatus	13	46	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
<b>Monmouth</b>		<b>305</b>	<b>4336</b>	<b>4</b>
	Ae. albopictus	16	28	
	Ae. vexans	15	138	
	An. barberi	1	1	
	An. punctipennis	4	7	
	Cq. perturbans	5	9	
	Cs. melanura	59	861	
	Cx. mix	91	2315	3
	Cx. pipiens	15	176	1
	Cx. restuans	6	13	
	Cx. salinarius	2	3	
	Cx. territans	3	11	
	Oc. atlanticus	1	1	
	Oc. canadensis	13	121	
	Oc. cantator	10	27	

	Oc. japonicus	22	108	
	Oc. sollicitans	13	353	
	Oc. taeniorhynchus	1	7	
	Oc. triseriatus	22	132	
	Ps. columbiae	1	2	
	Ps. ferox	5	23	
<b>Morris</b>		<b>125</b>	<b>2854</b>	<b>0</b>
	Ae. vexans	2	17	
	An. punctipennis	3	8	
	An. quadrimaculatus	1	1	
	Cq. perturbans	2	5	
	Cx. mix	67	2402	
	Cx. pipiens	2	115	
	Cx. restuans	2	47	
	Oc. japonicus	33	203	
	Oc. triseriatus	12	52	
	Ps. ferox	1	4	
<b>Ocean</b>		<b>224</b>	<b>5364</b>	<b>5</b>
	Ae. albopictus	20	282	
	Ae. vexans	5	35	
	An. bradleyi	2	6	
	An. punctipennis	1	1	
	An. quadrimaculatus	1	5	
	Cq. perturbans	6	69	
	Cs. melanura	8	19	
	Cs. morsitans	1	4	
	Cx. mix	84	3739	5
	Cx. pipiens	3	186	
	Cx. restuans	9	91	
	Cx. salinarius	29	411	
	Cx. territans	2	3	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	3	7	
	Oc. japonicus	25	140	
	Oc. sollicitans	3	103	
	Oc. triseriatus	9	22	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
<b>Passaic</b>		<b>107</b>	<b>3195</b>	<b>5</b>
	Ae. albopictus	2	3	
	An. punctipennis	2	3	
	Cx. mix	85	2897	5
	Oc. japonicus	14	271	
	Oc. triseriatus	4	21	
<b>Salem</b>		<b>203</b>	<b>1643</b>	<b>0</b>
	An. bradleyi	4	9	
	An. punctipennis	8	90	
	An. quadrimaculatus	9	190	
	Cq. perturbans	7	15	
	Cs. melanura	50	431	



	Cx. erraticus	3	9	
	Cx. mix	74	821	
	Cx. restuans	1	1	
	Cx. territans	2	3	
	Oc. japonicus	27	48	
	Oc. triseriatus	8	9	
	Ps. ciliata	2	6	
	Ps. columbiae	5	8	
	Ps. ferox	3	3	
<b>Somerset</b>		<b>123</b>	<b>3144</b>	<b>1</b>
	An. barberi	1	3	
	An. punctipennis	3	14	
	Cx. mix	77	2824	1
	Oc. japonicus	27	214	
	Oc. triseriatus	15	89	
<b>Sussex</b>		<b>127</b>	<b>1525</b>	<b>0</b>
	Ae. vexans	2	26	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	16	75	
	An. quadrimaculatus	2	6	
	Cq. perturbans	15	399	
	Cx. mix	31	649	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	29	132	
	Oc. sticticus	1	16	
	Oc. triseriatus	18	76	
	Oc. trivittatus	4	78	
	Ur. sapphirina	2	6	
<b>Union</b>		<b>61</b>	<b>934</b>	<b>1</b>
	Ae. albopictus	2	3	
	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	5	32	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	9	272	1
	Cx. pipiens	12	331	
	Cx. restuans	11	251	
	Cx. territans	2	3	
	Oc. grossbecki	1	1	
	Oc. japonicus	8	18	
	Oc. punctor	1	1	
	Oc. triseriatus	1	2	
	Or. signifera	1	1	
	Ur. sapphirina	1	2	

<b>Warren</b>	<b>139</b>	<b>6026</b>	<b>0</b>
An. punctipennis	3	6	
Cq. perturbans	2	32	
Cx. mix	97	5750	
Oc. japonicus	30	184	
Oc. triseriatus	6	19	
Oc. trivittatus	1	35	
<b>Grand Total</b>	<b>3608</b>	<b>88693</b>	<b>150</b>