

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 17

## *Culiseta melanura* Monitor September 19 - 25, 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.)	2.8	0.9	1,019	60	5	Waterford (Camden Co.)	6.1	0.4	160	26	0
Corbin City (Atlantic Co.)	1.4	2.6	577	59	0	Centerton (Salem Co.)	3.0	2.4	800	62	1
Dennisville (Cape May Co.)	4.5	2.9	4,958	130	1	Turkey Swamp (Monmouth Co.)	1.6	0.8	1,001	69	5

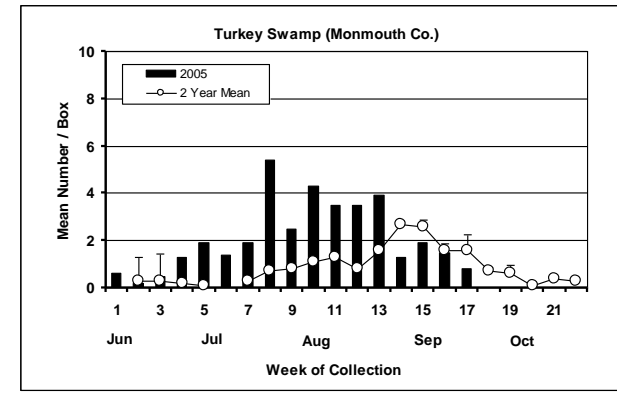
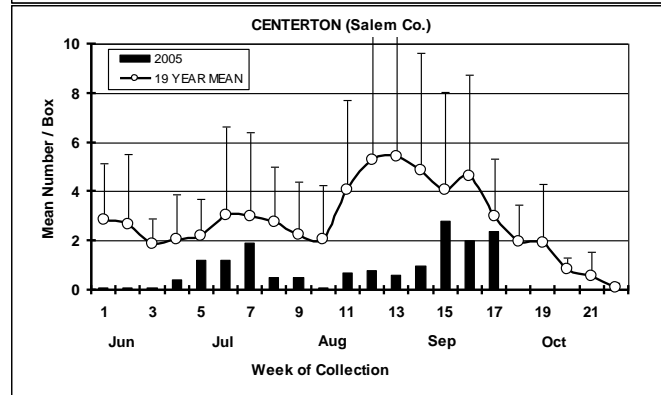
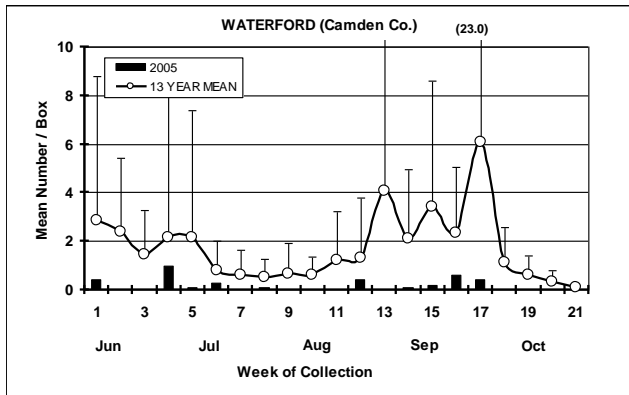
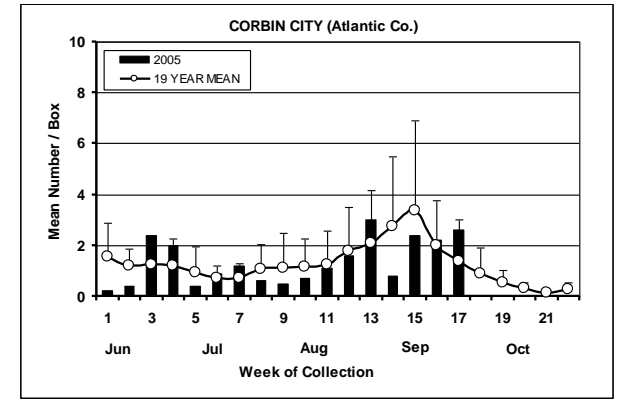
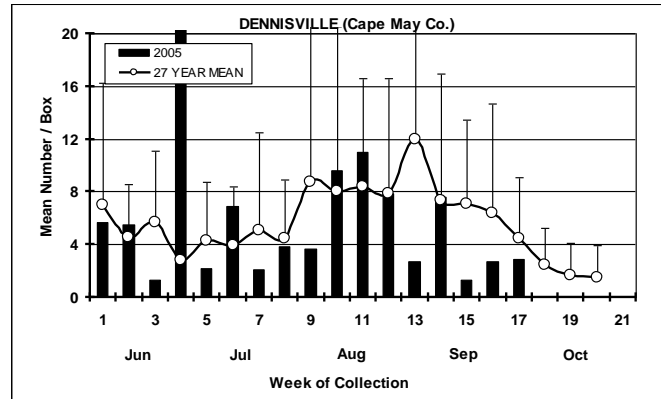
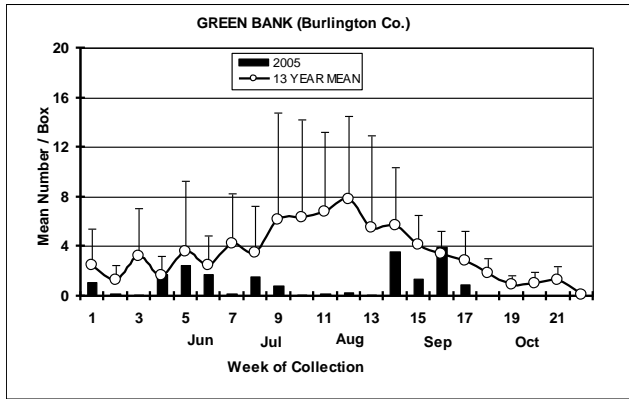
### Collections submitted to PHEL for West Nile Virus testing

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	469	165	100	1,752	552	122	30	8	224	65	440	235	603	4,765
Total Specimens	14,674	2,210	2,131	64,731	10,446	1,942	365	123	924	2,201	2,303	1,860	6,735	110,645
No. Positive Pools	66	4	0	176	1	1	0	0	1	0	1	0	0	250

**Remarks:** Additional pools of *Cs. melanura* positive for EEE virus were obtained from Green Bank, Turkey Swamp and Centerton over the past week, demonstrating that low level amplification is occurring throughout most of the southern portion of New Jersey. Significant transfer to mammalian hosts is unlikely in view of the low numbers of bridge vectors currently on the wing. The possibility of late season equine cases remains, a phenomenon that frequently occurs in October during years of sustained, low level amplification. We do not understand why late season horse cases occur but suspect *Cx. salinarius* as the probably vector. EEE has now been detected at 4 of the 6 study sites. *Cs. melanura* populations at Waterford appear too low to sustain virus activity this year but populations at Corbin City are high enough to produce EEE positives if late season virus is present in local birds. WNV remains largely in bird feeding mosquitoes with limited positives recorded from the mammalian feeding bridge vectors that have been tested, to date. Infection rates in *Culex* mosquitoes have been increasing, in recent weeks, a late season phenomenon that is typical for WNV.

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# Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through  
September 23, 2005**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
Ae. albopictus	235	1860	
Ae. cinereus	2	7	
Ae. vexans	122	1942	1
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	35	458	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	109	568	
An. quadrimaculatus	87	1653	
An. walkeri	1	5	
Cq. perturbans	90	1316	
Cs. inornata	2	2	
Cs. melanura	552	10446	1
Cs. morsitans	1	4	
Cx. erraticus	48	1194	
Cx. mix	1752	64731	176
Cx. pipiens	469	14674	66
Cx. restuans	165	2210	4
Cx. salinarius	100	2131	
Cx. territans	26	93	
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	440	2303	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	65	2201	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	41	450	
Oc. triseriatus	224	924	1
Oc. trivittatus	8	123	
Or. signifera	7	8	
Ps. ciliata	8	26	
Ps. columbiae	35	336	
Ps. cyanescens	1	1	
Ps. ferox	36	352	
Ps. howardii	4	24	
Ur. sapphirina	9	36	
<b>Grand Total</b>	<b>4765</b>	<b>110645</b>	<b>250</b>

**Submissions by County through September 23, 2005**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>297</b>	<b>7606</b>	<b>12</b>
	Ae. albopictus	27	387	
	Ae. vexans	10	135	
	An. bradleyi	1	1	
	An. quadrimaculatus	2	5	
	Cq. perturbans	14	404	
	Cs. melanura	67	652	
	Cx. erraticus	21	821	
	Cx. mix	84	3517	12
	Cx. pipiens	3	48	
	Cx. restuans	1	1	
	Cx. salinarius	5	155	
	Cx. territans	2	3	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	10	62	
	Oc. sollicitans	25	1108	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	2	12	
	Oc. triseriatus	12	60	
	Or. signifera	1	2	
	Ps. ferox	6	212	
<b>Bergen</b>		<b>304</b>	<b>15747</b>	<b>87</b>
	Ae. albopictus	10	73	
	Ae. vexans	14	210	
	An. punctipennis	4	6	
	Cq. perturbans	3	7	
	Cs. melanura	4	72	
	Cx. mix	157	11760	68
	Cx. pipiens	61	2845	18
	Cx. restuans	11	96	1
	Cx. salinarius	16	591	
	Oc. cantator	1	2	
	Oc. japonicus	10	57	
	Oc. sollicitans	3	3	
	Oc. triseriatus	7	21	
	Ps. ferox	1	1	
	Ur. sapphirina	2	3	
<b>Burlington</b>		<b>279</b>	<b>4186</b>	<b>2</b>
	Ae. albopictus	22	285	
	Ae. cinereus	2	7	
	Ae. vexans	22	899	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	8	80	
	An. quadrimaculatus	7	24	
	Cq. perturbans	10	34	
	Cs. inornata	1	1	

	Cs. melanura	69	1174	
	Cx. erraticus	7	29	
	Cx. mix	32	544	2
	Cx. pipiens	4	99	
	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	17	147	
	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	11	148	
	Ps. cyanescens	1	1	
	Ps. ferox	2	22	
	Ps. howardii	3	23	
	Ur. sapphirina	2	22	
<b>Camden</b>		<b>109</b>	<b>1290</b>	<b>3</b>
	Ae. albopictus	17	90	
	Ae. vexans	2	39	
	An. punctipennis	4	15	
	An. quadrimaculatus	6	12	
	Cs. melanura	25	159	
	Cx. mix	33	902	3
	Cx. pipiens	1	1	
	Oc. japonicus	17	68	
	Oc. triseriatus	2	2	
	Or. signifera	2	2	
<b>Cape May</b>		<b>400</b>	<b>11421</b>	<b>2</b>
	Ae. albopictus	19	94	
	Ae. vexans	1	8	
	An. bradleyi	11	341	
	An. punctipennis	1	75	
	An. quadrimaculatus	16	981	
	Cq. perturbans	10	143	
	Cs. melanura	179	6390	1
	Cx. erraticus	3	52	
	Cx. mix	16	525	1
	Cx. pipiens	52	1185	
	Cx. restuans	43	590	
	Cx. salinarius	21	643	
	Cx. territans	6	52	

	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	7	25	
<b>Cumberland</b>		<b>194</b>	<b>893</b>	<b>0</b>
	Ae. albopictus	3	3	
	Ae. vexans	8	12	
	An. bradleyi	8	41	
	An. punctipennis	6	8	
	An. quadrimaculatus	7	9	
	Cq. perturbans	2	2	
	Cs. melanura	55	179	
	Cx. mix	45	318	
	Oc. atlanticus	6	8	
	Oc. canadensis	3	3	
	Oc. cantator	5	6	
	Oc. grossbecki	1	1	
	Oc. sollicitans	2	6	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	30	277	
	Oc. triseriatus	1	1	
	Ps. ferox	9	16	
<b>Essex</b>		<b>172</b>	<b>3133</b>	<b>14</b>
	Ae. albopictus	18	54	
	Ae. vexans	8	133	
	An. quadrimaculatus	4	8	
	Cq. perturbans	1	1	
	Cx. mix	110	2785	14
	Oc. japonicus	21	124	
	Oc. sticticus	1	3	
	Oc. triseriatus	4	11	
	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>165</b>	<b>4914</b>	<b>24</b>
	Cx. mix	165	4914	24
<b>Hunterdon</b>		<b>212</b>	<b>7854</b>	<b>3</b>
	Ae. vexans	2	2	
	An. bradleyi	1	10	

	An. punctipennis	6	12	
	An. quadrimaculatus	1	3	
	Cx. mix	153	7137	3
	Cx. pipiens	22	489	
	Cx. restuans	14	171	
	Cx. salinarius	1	4	
	Cx. territans	2	3	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	
<b>Mercer</b>		<b>326</b>	<b>8067</b>	<b>50</b>
	Ae. albopictus	29	272	
	Ae. vexans	17	239	1
	An. bradleyi	1	2	
	An. punctipennis	10	27	
	An. quadrimaculatus	5	13	
	Cq. perturbans	3	72	
	Cs. melanura	3	7	
	Cx. erraticus	4	49	
	Cx. mix	35	1939	7
	Cx. pipiens	102	4305	39
	Cx. restuans	49	684	2
	Cx. salinarius	7	126	
	Oc. japonicus	38	123	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>308</b>	<b>7369</b>	<b>21</b>
	Ae. albopictus	16	104	
	Ae. vexans	5	31	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	4	24	
	Cq. perturbans	3	105	
	Cx. mix	147	5748	17
	Cx. pipiens	43	712	3
	Cx. restuans	14	261	
	Cx. salinarius	8	93	
	Cx. territans	1	1	
	Oc. japonicus	30	132	
	Oc. sollicitans	3	8	
	Oc. triseriatus	20	64	1
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
<b>Monmouth</b>		<b>384</b>	<b>5140</b>	<b>7</b>
	Ae. albopictus	20	35	
	Ae. vexans	16	140	
	An. barberi	1	1	

An. punctipennis	7	12	
An. quadrimaculatus	1	5	
Cq. perturbans	5	9	
Cs. melanura	74	988	
Cx. erraticus	2	4	
Cx. mix	125	2804	5
Cx. pipiens	17	186	2
Cx. restuans	6	13	
Cx. salinarius	3	4	
Cx. territans	4	13	
Oc. atlanticus	1	1	
Oc. canadensis	13	121	
Oc. cantator	10	27	
Oc. japonicus	26	117	
Oc. sollicitans	16	461	
Oc. taeniorhynchus	3	21	
Oc. triseriatus	27	152	
Ps. columbiae	2	3	
Ps. ferox	5	23	
<b>Morris</b>	<b>155</b>	<b>3214</b>	<b>1</b>
Ae. vexans	2	17	
An. punctipennis	4	10	
An. quadrimaculatus	2	2	
Cq. perturbans	2	5	
Cx. mix	85	2731	
Cx. pipiens	2	115	
Cx. restuans	2	47	1
Oc. japonicus	38	217	
Oc. triseriatus	17	66	
Ps. ferox	1	4	
<b>Ocean</b>	<b>287</b>	<b>5783</b>	<b>5</b>
Ae. albopictus	32	406	
Ae. vexans	6	36	
An. bradleyi	2	6	
An. punctipennis	1	1	
An. quadrimaculatus	1	5	
Cq. perturbans	8	76	
Cs. melanura	13	42	
Cs. morsitans	1	4	
Cx. erraticus	1	1	
Cx. mix	98	3862	5
Cx. pipiens	3	186	
Cx. restuans	10	92	
Cx. salinarius	33	418	
Cx. territans	2	3	
Oc. atlanticus	1	5	
Oc. canadensis	8	206	
Oc. cantator	5	9	
Oc. japonicus	32	161	
Oc. sollicitans	6	171	
Oc. triseriatus	20	63	
Ps. columbiae	1	19	
Ps. ferox	3	11	



<b>Passaic</b>		<b>141</b>	<b>3964</b>	<b>10</b>
	Ae. albopictus	4	7	
	Ae. vexans	1	4	
	An. punctipennis	3	10	
	Cx. mix	111	3629	10
	Oc. japonicus	18	293	
	Oc. triseriatus	4	21	
<b>Salem</b>		<b>262</b>	<b>2708</b>	<b>0</b>
	Ae. vexans	1	1	
	An. bradleyi	7	22	
	An. punctipennis	12	166	
	An. quadrimaculatus	16	494	
	Cq. perturbans	8	18	
	Cs. melanura	63	783	
	Cx. erraticus	9	231	
	Cx. mix	86	897	
	Cx. restuans	2	2	
	Cx. salinarius	1	1	
	Cx. territans	4	8	
	Oc. japonicus	32	55	
	Oc. triseriatus	9	10	
	Ps. ciliata	2	6	
	Ps. columbiae	6	10	
	Ps. ferox	4	4	
<b>Somerset</b>		<b>151</b>	<b>3601</b>	<b>1</b>
	An. barberi	1	3	
	An. punctipennis	4	16	
	Cx. mix	96	3261	1
	Oc. japonicus	32	227	
	Oc. triseriatus	18	94	
<b>Sussex</b>		<b>172</b>	<b>1704</b>	<b>0</b>
	Ae. vexans	3	31	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	25	87	
	An. quadrimaculatus	5	12	
	An. walkeri	1	5	
	Cq. perturbans	18	407	
	Cx. mix	42	722	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	38	177	
	Oc. sticticus	1	16	
	Oc. triseriatus	24	98	
	Oc. trivittatus	4	78	
	Ur. sapphirina	4	9	
<b>Union</b>		<b>75</b>	<b>1027</b>	<b>3</b>
	Ae. albopictus	4	6	

	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	7	37	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	15	348	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>176</b>	<b>6664</b>	<b>1</b>
	An. punctipennis	4	7	
	An. quadrimaculatus	1	17	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	116	6343	1
	Oc. japonicus	40	202	
	Oc. triseriatus	11	27	
	Oc. trivittatus	1	35	
<b>Grand Total</b>		<b>4764</b>	<b>110643</b>	<b>250</b>