

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 14

Culiseta melanura Monitor September 1-5, 2003

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.)	6.2	3.4	2,363	86	10	Waterford (Camden Co.)	2.2	3.2	470	41	3
Corbin City (Atlantic Co.)	1.9	6.1	729	65	0	Centerton (Salem Co.)	4.6	5.5	2,352	80	1
Dennisville (Cape May Co.)	7.7	0.4	1,163	54	0	Turkey Swamp (Monmouth Co.)	NA	2.7	120	33	0

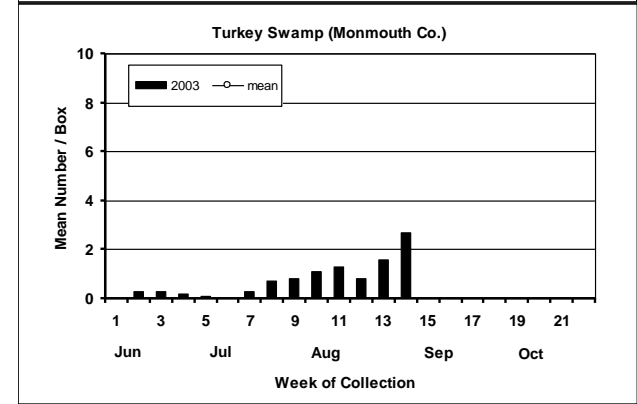
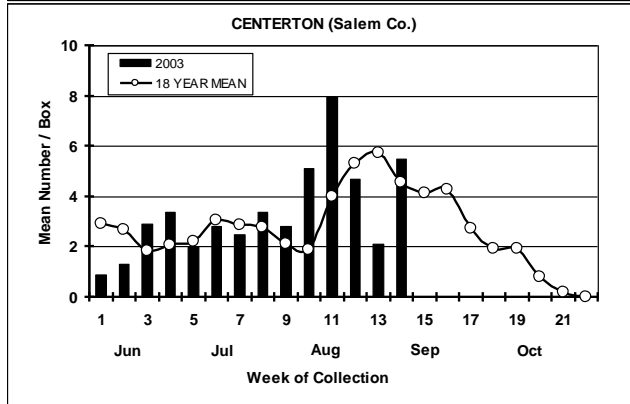
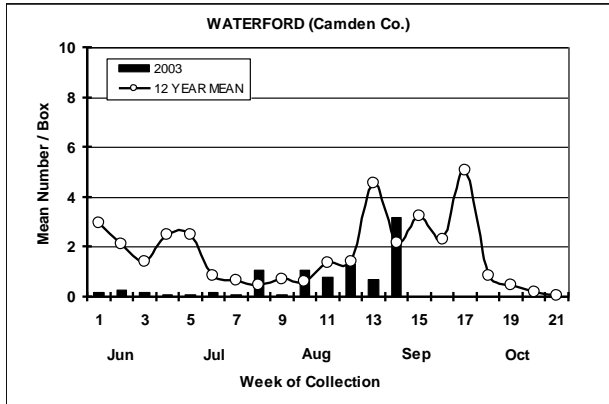
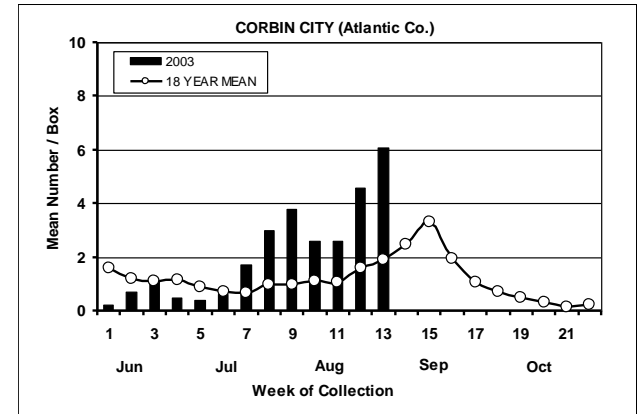
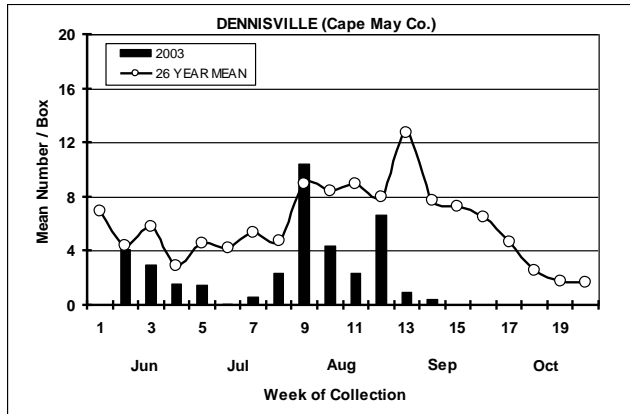
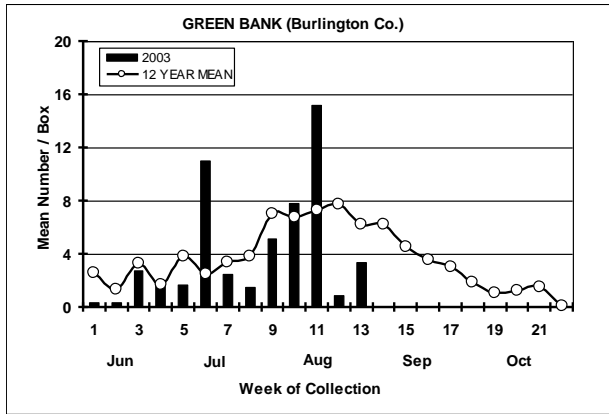
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>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	172	401	154	2,190	296	326	148	279	86	335	88	1,538	6,013
Total Specimens	3,930	10,869	4,424	66,023	6,446	7,665	3,526	1,795	1,938	2,296	480	23,504	132,896
No. Positive Pools	13	19	1	139	3	1	1	0	0	2	1	13	193

Remarks: EEE remains active at the Green Bank site in Burlington Co. with 10 isolations from *Cs. melanura*, to date. Populations in that area are beginning to recover from the August 21 state airspray that was directed against biting populations of *Oc. sollicitans*. *Cs. melanura* populations to the south remain at high levels along the eastern seaboard of the state. Resting box collections made by the Atlantic Co. Mosquito Control Unit at Corbin City have been high all summer and exceed the long term average by 3-fold at the present time. Two new virus isolations have been obtained from *Cs. melanura* at the Waterford site indicating that EEE has been amplified in local birds at inland areas in southern New Jersey. The first evidence of EEE from Salem Co. was obtained from a pool of *Cs. melanura* collected August 18 from the Centerton study site. WNV surveillance continues with county agencies submitting approximately 70% of the specimens in this year's database. No new positives have been obtained from mammalian feeding bridge vectors since the flurry of positives that appeared in floodwater species following the August rains.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through September 8, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	88	480	1
Ae. cinereus	17	77	
Ae. vexans	296	6446	3
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	4	4	
An. bradleyi	25	173	
An. crucians	1	3	
An. punctipennis	207	1760	
An. quadrimaculatus	150	2841	
An. walkeri	7	150	
Cq. perturbans	96	1902	1
Cs. inornata	2	3	
Cs. melanura	461	9271	9
Cx. erraticus	13	195	
Cx. mix	2190	66023	139
Cx. pipiens	172	3930	13
Cx. restuans	401	10869	19
Cx. salinarius	154	4424	1
Cx. territans	67	429	
Oc. abserratus	3	9	
Oc. atlanticus	13	22	
Oc. atropalpus	3	11	
Oc. aurifer	8	176	
Oc. canadensis	326	7665	1
Oc. cantator	111	1818	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	335	2296	2
Oc. mitchellae	1	1	
Oc. sollicitans	86	1938	
Oc. sticticus	90	1508	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	10	109	
Oc. thibaulti	6	128	
Oc. triseriatus	279	1795	
Oc. trivittatus	148	3526	1
Or. signifera	4	18	
Ps. ciliata	7	33	
Ps. columbiae	46	755	1
Ps. ferox	78	1098	1
Ps. howardii	4	17	
Ur. sapphirina	7	53	
Grand Total	6013	132896	193

Submissions by County through September 8, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		410	12715	13
	Ae. albopictus	8	90	
	Ae. vexans	21	746	
	An. punctipennis	3	39	
	An. quadrimaculatus	3	10	
	Cq. perturbans	8	280	
	Cs. melanura	83	1888	
	Cx. erraticus	2	100	
	Cx. mix	106	4664	12
	Cx. pipiens	1	16	
	Cx. restuans	12	178	
	Cx. salinarius	12	401	
	Cx. territans	6	32	
	Oc. canadensis	44	1642	1
	Oc. cantator	29	1135	
	Oc. grossbecki	4	59	
	Oc. japonicus	8	55	
	Oc. sollicitans	15	512	
	Oc. sticticus	5	124	
	Oc. triseriatus	21	335	
	Oc. trivittatus	4	126	
	Oc. thibaulti	5	127	
	Oc. taeniorhynchus	1	32	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	4	62	
	Oc. atropalpus	1	6	
	Ps. ciliata	1	1	
Bergen		338	13428	20
	Ae. albopictus	3	29	
	Ae. cinereus	1	10	
	Ae. vexans	12	491	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	218	10412	20
	Cx. pipiens	9	152	
	Cx. restuans	10	275	
	Cx. salinarius	18	839	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	31	611	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	
	Oc. trivittatus	6	270	
Burlington		350	5861	7
	Ae. albopictus	18	94	1
	Ae. cinereus	4	4	
	Ae. vexans	21	311	
	An. punctipennis	20	151	
	An. quadrimaculatus	7	17	

Cq. perturbans	4	53	
Cs. melanura	87	2375	3
Cx. mix	81	1642	3
Cx. restuans	7	34	
Cx. salinarius	6	19	
Cx. territans	2	8	
Oc. canadensis	29	604	
Oc. cantator	6	34	
Oc. grossbecki	8	31	
Oc. japonicus	6	28	
Oc. sollicitans	6	220	
Oc. sticticus	3	19	
Oc. stimulans	2	10	
Oc. triseriatus	11	41	
Oc. trivittatus	3	40	
Ps. columbiae	3	8	
An. barberi	1	1	
Oc. taeniorhynchus	1	24	
Or. signifera	1	1	
An. crucians	1	3	
Ps. ferox	3	45	
An. bradleyi	2	19	
Oc. mitchellae	1	1	
Oc. atropalpus	1	4	
Ur. sapphirina	1	3	
Ps. howardii	3	16	
Ps. ciliata	1	1	
Camden	184	1968	1
Ae. albopictus	10	18	
Ae. vexans	9	38	
An. punctipennis	26	556	
An. quadrimaculatus	8	20	
Cq. perturbans	7	98	
Cs. melanura	40	357	1
Cx. mix	27	556	
Cx. pipiens	1	2	
Cx. restuans	12	84	
Cx. salinarius	3	31	
Cx. territans	7	72	
Oc. canadensis	5	17	
Oc. grossbecki	2	6	
Oc. japonicus	3	9	
Oc. sollicitans	1	1	
Oc. sticticus	1	1	
Oc. triseriatus	8	21	
Oc. trivittatus	1	1	
Ps. columbiae	2	4	
Ps. ferox	1	1	
An. bradleyi	4	29	
Oc. atropalpus	1	1	
Ur. sapphirina	3	43	
Ps. ciliata	2	2	
Cape May	388	8697	3
Ae. albopictus	2	4	
Ae. vexans	1	28	
An. punctipennis	7	18	

An. quadrimaculatus	56	2424	
Cq. perturbans	5	193	1
Cs. melanura	76	1660	2
Cx. erraticus	1	9	
Cx. mix	163	2765	
Cx. pipiens	2	23	
Cx. restuans	12	359	
Cx. salinarius	9	63	
Cx. territans	11	109	
Oc. canadensis	16	610	
Oc. cantator	7	110	
Oc. grossbecki	6	222	
Oc. japonicus	1	3	
Oc. triseriatus	5	27	
Oc. taeniorhynchus	1	6	
An. bradleyi	6	49	
saoll	1	15	
Cumberland	237	2770	5
Ae. albopictus	2	4	
Ae. cinereus	1	1	
Ae. vexans	18	163	
An. punctipennis	6	9	
An. quadrimaculatus	2	2	
Cq. perturbans	1	1	
Cs. melanura	5	8	
Cx. mix	31	115	
Cx. pipiens	16	551	3
Cx. restuans	14	293	2
Cx. salinarius	24	1163	
Cx. territans	2	3	
Oc. canadensis	29	105	
Oc. cantator	2	3	
Oc. grossbecki	7	10	
Oc. japonicus	3	4	
Oc. sollicitans	11	30	
Oc. sticticus	10	75	
Oc. triseriatus	12	20	
Oc. trivittatus	4	11	
Ps. columbiae	9	84	
Oc. taeniorhynchus	6	46	
Ps. ferox	11	49	
Oc. atlanticus	9	17	
An. bradleyi	2	3	
Essex	185	2469	0
Ae. vexans	25	558	
An. punctipennis	3	4	
An. quadrimaculatus	1	1	
Cx. mix	63	857	
Oc. canadensis	6	23	
Oc. japonicus	8	26	
Oc. sticticus	33	461	
Oc. stimulans	8	31	
Oc. triseriatus	9	11	
Oc. trivittatus	17	283	
Ps. ferox	12	214	

Gloucester	321	7607	31
Ae. albopictus	29	64	
Ae. vexans	8	158	
An. punctipennis	9	17	
An. quadrimaculatus	2	4	
Cq. perturbans	2	3	
Cs. melanura	9	385	2
Cx. mix	169	5926	24
Cx. pipiens	6	105	2
Cx. restuans	9	260	1
Cx. salinarius	9	344	
Cx. territans	2	6	
Oc. canadensis	3	23	
Oc. excrucians	2	3	
Oc. japonicus	29	93	1
Oc. sticticus	2	5	
Oc. triseriatus	17	60	
Oc. trivittatus	3	15	
Ps. columbiae	1	2	
Ps. ferox	6	117	1
An. bradleyi	2	3	
Ur. sapphirina	1	3	
An. atropos	1	11	
Hudson	133	2432	3
Ae. albopictus	3	23	
Ae. vexans	5	170	
Cq. perturbans	4	151	
Cx. mix	82	725	2
Cx. pipiens	12	413	
Cx. restuans	10	404	
Cx. salinarius	10	488	1
Oc. sollicitans	1	7	
Oc. triseriatus	3	4	
Oc. trivittatus	1	44	
Aedes/Ochleratus sp.	2	3	
Hunterdon	205	8533	14
Ae. vexans	2	30	
An. punctipennis	5	38	
Cx. mix	166	7977	14
Oc. japonicus	11	96	
Oc. triseriatus	10	34	
Oc. trivittatus	8	314	
Ps. columbiae	1	19	
Ps. ferox	1	2	
Ps. ciliata	1	23	
Mercer	405	9463	14
Ae. cinereus	2	4	
Ae. vexans	23	633	
An. punctipennis	17	119	
An. quadrimaculatus	2	2	
An. walkeri	1	1	
Cq. perturbans	11	488	
Cs. inornata	1	1	
Cs. melanura	3	3	

	Cx. mix	28	994	8
	Cx. pipiens	38	994	5
	Cx. restuans	143	4115	1
	Cx. salinarius	15	122	
	Cx. territans	3	6	
	Oc. canadensis	47	1256	
	Oc. cantator	1	2	
	Oc. excrucians	3	7	
	Oc. grossbecki	17	195	
	Oc. japonicus	20	85	
	Oc. sticticus	4	8	
	Oc. triseriatus	7	48	
	Oc. trivittatus	3	19	
	Ps. columbiae	1	2	
	Ps. ferox	12	356	
	Oc. atlanticus	3	3	
Middlesex		189	2590	10
	Ae. albopictus	1	1	
	Ae. vexans	14	140	1
	An. punctipennis	5	5	
	An. quadrimaculatus	4	4	
	Cq. perturbans	2	8	
	Cx. mix	111	1781	8
	Oc. canadensis	5	47	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	21	
	Oc. sollicitans	12	165	
	Oc. triseriatus	10	32	
	Oc. trivittatus	5	50	
	Ps. columbiae	8	289	1
	Ps. ferox	2	26	
Monmouth		530	7790	8
	Ae. albopictus	3	7	
	Ae. vexans	30	680	1
	An. punctipennis	14	126	
	An. quadrimaculatus	8	33	
	Cq. perturbans	6	15	
	Cs. melanura	35	147	
	Cx. erraticus	3	8	
	Cx. mix	162	2302	1
	Cx. pipiens	36	903	1
	Cx. restuans	35	965	5
	Cx. salinarius	13	255	
	Cx. territans	7	25	
	Oc. abserratus	2	6	
	Oc. canadensis	34	583	
	Oc. cantator	22	90	
	Oc. excrucians	1	3	
	Oc. japonicus	33	117	
	Oc. sollicitans	21	619	
	Oc. sticticus	1	6	
	Oc. triseriatus	31	567	
	Oc. trivittatus	11	40	
	Oc. thibaulti	1	1	

	Ps. columbiae	8	242	
	An. barberi	3	3	
	Oc. taeniorhynchus	1	1	
	Or. signifera	1	1	
	Ps. ferox	5	42	
	Ur. sapphirina	1	1	
	Ps. ciliata	1	1	
	Oc. hendersoni	1	1	
Morris		208	4845	9
	Ae. cinereus	2	17	
	Ae. vexans	12	254	
	An. punctipennis	11	43	
	An. quadrimaculatus	2	6	
	An. walkeri	1	2	
	Cq. perturbans	7	217	
	Cx. mix	59	2435	8
	Cx. pipiens	9	137	
	Cx. restuans	15	418	
	Cx. salinarius	2	7	
	Cx. territans	1	3	
	Oc. aurifer	3	20	
	Oc. canadensis	11	274	
	Oc. grossbecki	2	5	
	Oc. japonicus	25	127	1
	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	20	115	
	Oc. trivittatus	19	669	
	Ps. ferox	4	88	
Ocean		452	8492	9
	Ae. albopictus	7	133	
	Ae. vexans	29	741	
	An. punctipennis	13	107	
	An. quadrimaculatus	8	136	
	Cq. perturbans	19	102	
	Cs. inornata	1	2	
	Cs. melanura	42	343	
	Cx. mix	94	2942	1
	Cx. pipiens	8	135	1
	Cx. restuans	49	1530	7
	Cx. salinarius	19	548	
	Cx. territans	12	85	
	Oc. canadensis	32	596	
	Oc. cantator	19	249	
	Oc. grossbecki	2	3	
	Oc. japonicus	26	141	
	Oc. sollicitans	15	360	
	Oc. sticticus	2	6	
	Oc. triseriatus	35	168	
	Oc. trivittatus	4	41	
	Ps. columbiae	3	44	
	Or. signifera	1	1	
	Ps. ferox	7	67	
	Oc. atlanticus	1	2	
	An. bradleyi	3	5	
	Ps. ciliata	1	5	

Passaic		152	4948	9
	An. punctipennis	2	5	
	Cx. mix	92	4037	9
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	23	263	
	Oc. sticticus	3	8	
	Oc. triseriatus	5	18	
	Oc. trivittatus	1	4	
	Ps. ferox	1	1	
Salem		405	6559	2
	Ae. albopictus	2	13	
	Ae. vexans	15	86	
	An. punctipennis	14	93	
	An. quadrimaculatus	25	118	
	Cq. perturbans	7	9	
	Cs. melanura	77	2080	1
	Cx. erraticus	7	78	
	Cx. mix	139	2820	1
	Cx. pipiens	16	320	
	Cx. restuans	15	194	
	Cx. salinarius	3	3	
	Cx. territans	8	48	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. japonicus	9	27	
	Oc. sollicitans	2	2	
	Oc. triseriatus	9	13	
	Ps. columbiae	10	61	
	Ps. ferox	3	3	
	An. bradleyi	2	3	
	ter	1	3	
Somerset		181	3915	14
	Ae. cinereus	1	15	
	Ae. vexans	5	48	
	An. punctipennis	7	39	
	An. quadrimaculatus	3	4	
	Cx. mix	101	2965	10
	Cx. pipiens	4	84	1
	Cx. restuans	10	315	3
	Cx. salinarius	2	55	
	Cx. territans	2	14	
	Oc. canadensis	2	4	
	Oc. japonicus	23	114	
	Oc. triseriatus	7	9	
	Oc. trivittatus	10	236	
	Ps. ferox	3	12	
	Ps. howardii	1	1	
Sussex		379	9227	6
	Ae. cinereus	5	25	

Ae. vexans	22	907	
An. punctipennis	23	228	
An. quadrimaculatus	7	33	
Cq. perturbans	12	283	
Cs. melanura	4	25	
Cx. mix	134	4037	6
Cx. pipiens	4	43	
Cx. restuans	19	693	
Cx. salinarius	4	79	
Cx. territans	2	13	
Oc. abserratus	1	3	
Oc. aurifer	1	50	
Oc. canadensis	13	291	
Oc. excrucians	3	58	
Oc. japonicus	39	367	
Oc. sticticus	18	756	
Oc. stimulans	10	174	
Oc. triseriatus	29	110	
Oc. trivittatus	25	1037	
Ps. ferox	3	12	
Ur. sapphirina	1	3	
Union	95	2601	7
Ae. vexans	2	7	
An. punctipennis	1	1	
Cx. mix	36	1434	7
Cx. pipiens	4	19	
Cx. restuans	9	172	
Cx. salinarius	4	6	
Oc. canadensis	21	910	
Oc. japonicus	8	29	
Oc. sollicitans	1	7	
Oc. sticticus	2	4	
Oc. triseriatus	3	4	
Oc. trivittatus	3	7	
Ps. ferox	1	1	
Warren	266	5986	8
Ae. cinereus	1	1	
Ae. vexans	22	257	1
An. punctipennis	19	154	
An. quadrimaculatus	8	23	
An. walkeri	5	147	
Cq. perturbans	1	1	
Cx. mix	128	4637	5
Cx. restuans	4	22	
Oc. aurifer	4	106	
Oc. canadensis	4	50	
Oc. cantator	5	67	
Oc. japonicus	23	80	
Oc. sticticus	3	14	
Oc. stimulans	7	63	1
Oc. triseriatus	11	23	
Oc. trivittatus	20	319	1
Ps. ferox	1	22	
Grand Total	6,013	132,896	193

