

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 6

Culiseta melanura Monitor July 11-14, 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.)	2.5	1.4	300	27	1	Waterford (Camden Co.)	0.8	0.2	45	14	0
Corbin City (Atlantic Co.)	0.7	0.6	87	31	0	Centerton (Salem Co.)	3.0	2.8	668	29	0
Dennisville (Cape May Co.)	4.3	0.1	278	16	0	Turkey Swamp (Monmouth Co.)	NA	NC	10	9	0

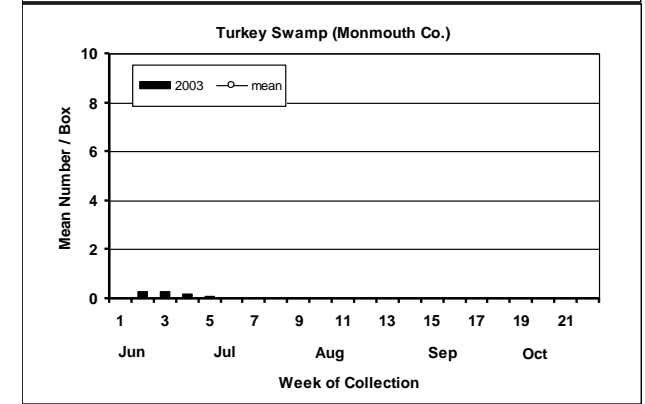
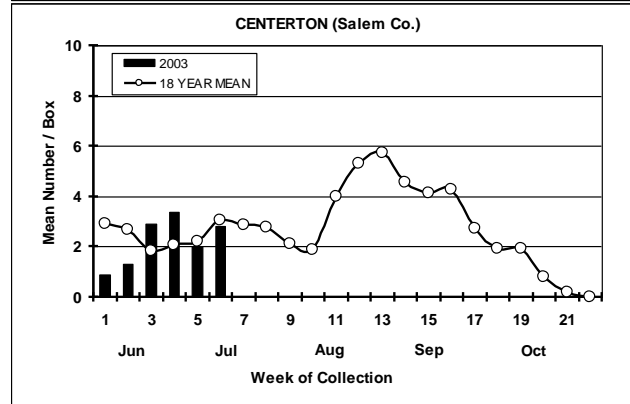
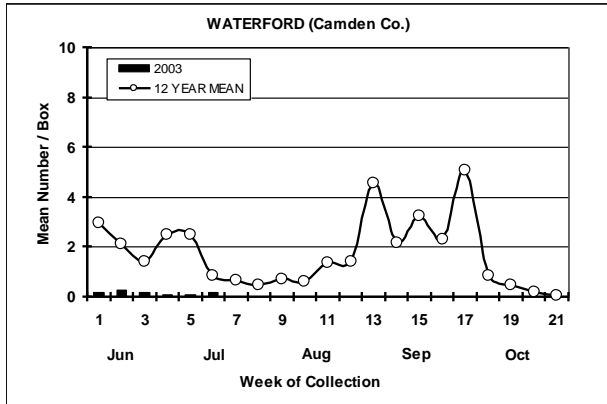
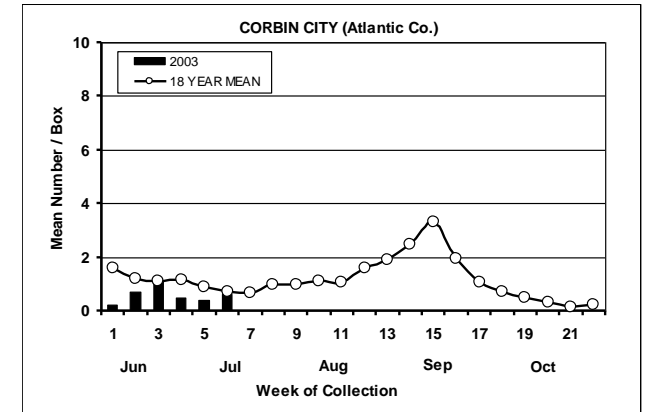
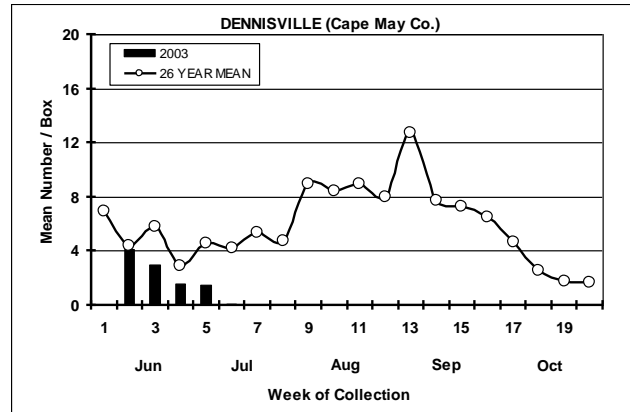
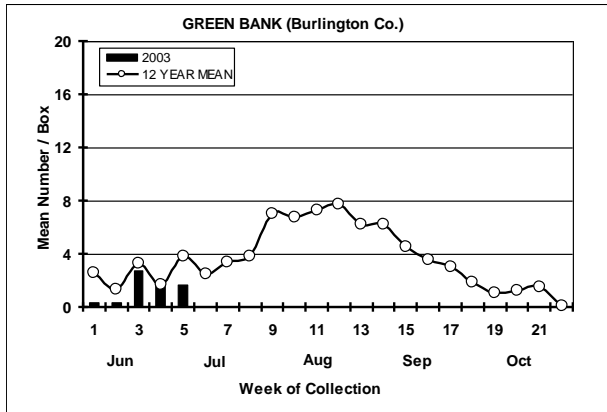
Collections submitted to PHEL for West Nile Virus testing

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	88	249	38	1,054	126	234	49	94	42	136	12	617	2,739
Total Specimens	1,650	6,518	719	30,338	2,746	6,004	944	482	1,100	945	30	7,759	59,235
No. Positive Pools	1	0	0	0	0	0	0	0	0	0	0	0	1

Remarks: A pool of *Cs. melanura* collected at Green Bank on June 30 this year tested positive for EEE. The sample included 11 black-blooded specimens, *ie.* engorged *Cs. melanura* where blood is still visible but digestion has progressed to the point where most of the meal has been converted to eggs. This is the first time that EEE has ever been isolated from a mosquito in the month of June during NJ's vector surveillance effort. Virus activity in July usually indicates an active EEE season. In most years we do not detect EEE until sometime in August. Long-term population means in the graphs which follow clearly show that *Cs. melanura* populations can be expected to rise significantly in upcoming months allowing ample time for virus amplification within local bird populations. Mosquito control agencies should monitor their potential bridge vector populations carefully from this point in the season on. WNV testing continues with no new evidence of virus at this point in time. Our collection numbers this year are slightly higher than they were at this time last season but positive mosquitoes had been reported from Monmouth, Middlesex, Camden and Somerset counties by Week 6 of 2002. To date, crow deaths and virus in a single pool of overwintering *Cx. pipiens* are the only indicators for WNV activity in NJ this year.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through July 11, 2003

Species	Pools	Mosquitoes
Ae. albopictus	12	30
Ae. cinereus	13	36
Ae. vexans	126	2746
An. barberi	1	1
An. bradleyi	1	1
An. crucians	1	3
An. punctipennis	74	297
An. quadrimaculatus	48	667
An. walkeri	2	3
Cq. perturbans	35	872
Cs. inornata	1	2
Cs. melanura	134	1630
Cx. erraticus	7	78
Cx. mix	1054	30338
Cx. pipiens	88	1650
Cx. restuans	249	6518
Cx. salinarius	38	719
Cx. territans	19	101
Oc. abserratus	3	9
Oc. atlanticus	3	3
Oc. aurifer	8	176
Oc. canadensis	234	6004
Oc. cantator	93	1586
Oc. excrucians	10	73
Oc. grossbecki	47	548
Oc. japonicus	136	885
Oc. mitchellae	1	1
Oc. sollicitans	42	1100
Oc. sticticus	55	964
Oc. stimulans	24	249
Oc. taeniorhynchus	1	1
Oc. thibaulti	5	127
Oc. triseriatus	94	482
Oc. trivittatus	49	944
Or. signifera	2	16
Ps. columbiae	4	11
Ps. ferox	25	364
Grand Total	2739	59235

Submissions by County through July 11, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		176	6317	0
	Ae. vexans	8	345	
	Cq. perturbans	2	100	
	Cs. melanura	21	229	
	Cx. mix	57	2397	
	Cx. restuans	4	102	
	Cx. territans	2	8	
	Oc. canadensis	27	1191	
	Oc. cantator	26	1071	
	Oc. grossbecki	4	59	
	Oc. japonicus	1	6	
	Oc. sollicitans	9	394	
	Oc. sticticus	4	74	
	Oc. triseriatus	3	101	
	Oc. trivittatus	2	98	
	Oc. thibaulti	5	127	
	Or. signifera	1	15	
Bergen		208	7493	0
	Ae. albopictus	1	1	
	Ae. cinereus	1	10	
	Ae. vexans	9	402	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	124	5762	
	Cx. pipiens	8	124	
	Cx. restuans	7	125	
	Cx. salinarius	9	437	
	Cx. territans	1	2	
	Oc. canadensis	4	111	
	Oc. grossbecki	1	19	
	Oc. japonicus	21	348	
	Oc. sticticus	1	15	
	Oc. triseriatus	14	105	
	Oc. trivittatus	1	20	
Burlington		163	1916	0
	Ae. cinereus	4	4	
	Ae. vexans	11	53	
	An. punctipennis	5	10	
	Cq. perturbans	1	45	
	Cs. melanura	30	330	
	Cx. mix	47	725	
	Cx. restuans	4	11	
	Cx. salinarius	4	8	
	Oc. canadensis	26	552	
	Oc. cantator	5	31	
	Oc. grossbecki	7	22	
	Oc. japonicus	2	5	
	Oc. sollicitans	4	70	
	Oc. sticticus	2	2	
	Oc. stimulans	2	10	
	Oc. triseriatus	3	4	

	Oc. trivittatus	2	3	
	An. crucians	1	3	
	Ps. ferox	1	26	
	An. bradleyi	1	1	
	Oc. mitchellae	1	1	
Camden		48	354	0
	Ae. albopictus	1	3	
	Ae. vexans	2	4	
	An. punctipennis	6	53	
	An. quadrimaculatus	1	2	
	Cq. perturbans	1	1	
	Cs. melanura	14	45	
	Cx. mix	8	172	
	Cx. restuans	6	51	
	Cx. territans	2	3	
	Oc. canadensis	1	4	
	Oc. grossbecki	2	6	
	Oc. sollicitans	1	1	
	Oc. sticticus	1	1	
	Oc. triseriatus	2	8	
Cape May		178	3984	0
	An. punctipennis	4	14	
	An. quadrimaculatus	14	582	
	Cs. melanura	19	421	
	Cx. mix	101	1662	
	Cx. restuans	8	332	
	Cx. territans	4	42	
	Oc. canadensis	15	599	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
Cumberland		59	348	0
	Ae. vexans	2	2	
	An. punctipennis	1	1	
	Cs. melanura	3	5	
	Cx. mix	5	6	
	Cx. restuans	6	136	
	Cx. territans	1	1	
	Oc. canadensis	14	74	
	Oc. cantator	1	2	
	Oc. grossbecki	5	8	
	Oc. sticticus	8	64	
	Oc. triseriatus	1	1	
	Oc. trivittatus	3	5	
	Ps. ferox	7	41	
	Oc. atlanticus	2	2	

Essex		70	1172	0
	Ae. vexans	17	462	
	An. punctipennis	1	1	
	Cx. mix	9	82	
	Oc. canadensis	3	19	
	Oc. sticticus	21	325	
	Oc. stimulans	6	29	
	Oc. triseriatus	1	1	
	Oc. trivittatus	8	164	
	Ps. ferox	4	89	
Gloucester		117	3170	0
	Ae. albopictus	5	8	
	Ae. vexans	3	25	
	An. punctipennis	3	3	
	Cx. mix	89	3003	
	Oc. excrucians	2	3	
	Oc. japonicus	8	20	
	Oc. triseriatus	5	8	
	Ps. ferox	2	100	
Hudson		20	662	0
	Ae. vexans	2	100	
	Cq. perturbans	1	1	
	Cx. pipiens	4	87	
	Cx. restuans	5	221	
	Cx. salinarius	4	200	
	Oc. sollicitans	1	7	
	Oc. triseriatus	2	2	
	Oc. trivittatus	1	44	
Hunterdon		85	3496	0
	Ae. vexans	1	4	
	Cx. mix	73	3459	
	Oc. japonicus	5	22	
	Oc. triseriatus	6	11	
Mercer		280	6184	0
	Ae. cinereus	2	4	
	Ae. vexans	15	444	
	An. punctipennis	11	51	
	An. quadrimaculatus	2	2	
	Cq. perturbans	10	441	
	Cs. melanura	2	2	
	Cx. mix	11	262	
	Cx. pipiens	19	166	
	Cx. restuans	119	3315	
	Cx. salinarius	9	45	
	Cx. territans	2	5	
	Oc. canadensis	41	1166	
	Oc. cantator	1	2	
	Oc. excrucians	3	7	
	Oc. grossbecki	14	188	
	Oc. japonicus	11	22	
	Oc. sticticus	1	2	

	Oc. triseriatus	2	4	
	Oc. trivittatus	1	5	
	Ps. columbiae	1	2	
	Ps. ferox	2	48	
	Oc. atlanticus	1	1	
Middlesex		91	1194	0
	Ae. albopictus	1	1	
	Ae. vexans	8	73	
	An. punctipennis	4	4	
	Cq. perturbans	1	1	
	Cx. mix	55	908	
	Oc. canadensis	5	47	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. sollicitans	5	57	
	Oc. trivittatus	4	48	
	Ps. columbiae	2	8	
	Ps. ferox	2	26	
Monmouth		273	3568	1
	Ae. albopictus	1	1	
	Ae. vexans	11	255	
	An. punctipennis	4	11	
	An. quadrimaculatus	4	7	
	Cq. perturbans	3	7	
	Cs. melanura	11	14	
	Cx. mix	113	1444	
	Cx. pipiens	25	774	overwintering
	Cx. restuans	13	209	
	Cx. salinarius	2	12	
	Cx. territans	1	3	
	Oc. abserratus	2	6	
	Oc. canadensis	22	269	
	Oc. cantator	17	61	
	Oc. excrucians	1	3	
	Oc. japonicus	14	41	
	Oc. sollicitans	15	365	
	Oc. triseriatus	7	76	
	Oc. trivittatus	3	4	
	An. barberi	1	1	
	Oc. taeniorhynchus	1	1	
	Ps. ferox	2	4	

Morris	65	1000	0
Ae. cinereus	1	1	
Ae. vexans	4	12	
An. punctipennis	2	7	
An. quadrimaculatus	1	1	
An. walkeri	1	2	
Cx. mix	16	564	
Cx. pipiens	5	126	
Cx. restuans	6	160	
Oc. aurifer	3	20	
Oc. canadensis	5	56	
Oc. grossbecki	1	1	
Oc. japonicus	8	16	
Oc. sticticus	1	1	
Oc. stimulans	1	2	
Oc. triseriatus	9	26	
Oc. trivittatus	1	5	
Ocean	146	2775	0
Ae. albopictus	1	3	
Ae. vexans	7	72	
Cq. perturbans	3	9	
Cs. inornata	1	2	
Cs. melanura	7	50	
Cx. mix	48	1404	
Cx. restuans	18	512	
Cx. salinarius	2	3	
Cx. territans	3	5	
Oc. canadensis	16	232	
Oc. cantator	13	167	
Oc. grossbecki	1	1	
Oc. japonicus	7	17	
Oc. sollicitans	7	206	
Oc. triseriatus	9	71	
Or. signifera	1	1	
Ps. ferox	2	20	
Passaic	52	1114	0
An. punctipennis	2	5	
Cx. mix	13	461	
Cx. pipiens	6	33	
Cx. restuans	16	558	
Cx. salinarius	1	1	
Oc. canadensis	2	20	
Oc. japonicus	8	27	
Oc. sticticus	3	8	
Oc. triseriatus	1	1	

Salem	200	2851	0
Ae. albopictus	2	13	
Ae. vexans	6	12	
An. punctipennis	5	19	
An. quadrimaculatus	10	44	
Cq. perturbans	4	5	
Cs. melanura	26	531	
Cx. erraticus	7	78	
Cx. mix	69	1072	
Cx. pipiens	15	319	
Cx. restuans	9	151	
Cx. salinarius	1	1	
Cx. territans	2	20	
Oc. canadensis	18	454	
Oc. cantator	17	107	
Oc. grossbecki	5	21	
Oc. triseriatus	2	2	
Ps. columbiae	1	1	
Ps. ferox	1	1	
Somerset	89	1877	0
An. punctipennis	2	2	
An. quadrimaculatus	2	2	
Cx. mix	58	1722	
Cx. pipiens	1	1	
Cx. restuans	3	3	
Oc. japonicus	12	52	
Oc. triseriatus	6	8	
Oc. trivittatus	4	81	
Ps. ferox	1	6	
Sussex	210	4753	0
Ae. cinereus	4	16	
Ae. vexans	11	393	
An. punctipennis	14	90	
An. quadrimaculatus	4	17	
Cq. perturbans	9	262	
Cs. melanura	1	3	
Cx. mix	62	1716	
Cx. pipiens	1	1	
Cx. restuans	12	438	
Cx. salinarius	2	6	
Cx. territans	1	12	
Oc. abserratus	1	3	
Oc. aurifer	1	50	
Oc. canadensis	11	285	
Oc. excrucians	3	58	
Oc. japonicus	24	262	
Oc. sticticus	11	468	
Oc. stimulans	10	174	
Oc. triseriatus	15	46	
Oc. trivittatus	12	450	
Ps. ferox	1	3	

Union		63	1593	0
	Ae. vexans	2	7	
	Cx. mix	13	462	
	Cx. pipiens	4	19	
	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	4	5	
	Oc. sticticus	2	4	
	Oc. triseriatus	2	3	
	Oc. trivittatus	2	5	
Warren		146	3414	0
	Ae. cinereus	1	1	
	Ae. vexans	7	81	
	An. punctipennis	8	18	
	An. quadrimaculatus	6	6	
	An. walkeri	1	1	
	Cx. mix	83	3055	
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	3	15	
	Oc. cantator	4	17	
	Oc. japonicus	11	42	
	Oc. stimulans	5	34	
	Oc. triseriatus	4	4	
	Oc. trivittatus	5	12	
Grand Total		2739	59235	1