

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 8

Culiseta melanura Monitor July 21-25, 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.)	3.4	2.5	911	44	2	Waterford (Camden Co.)	0.5	1.1	105	21	0
Corbin City (Atlantic Co.)	0.7	1.7	145	37	0	Centerton (Salem Co.)	2.8	3.4	962	40	0
Dennisville (Cape May Co.)	4.7	2.4	430	24	0	Turkey Swamp (Monmouth Co.)	NA	0.7	22	14	0

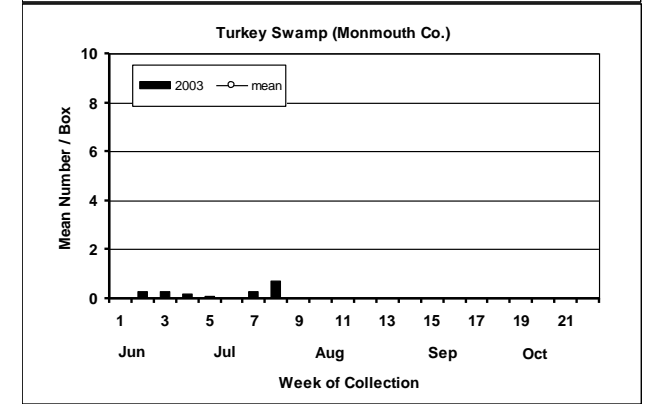
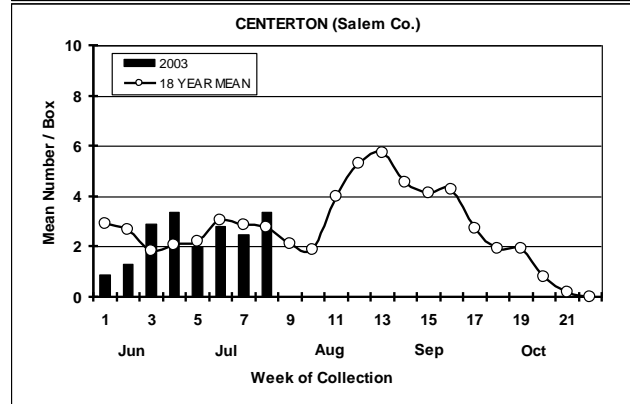
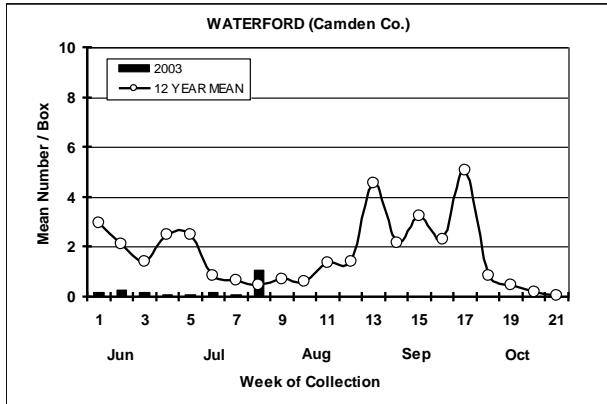
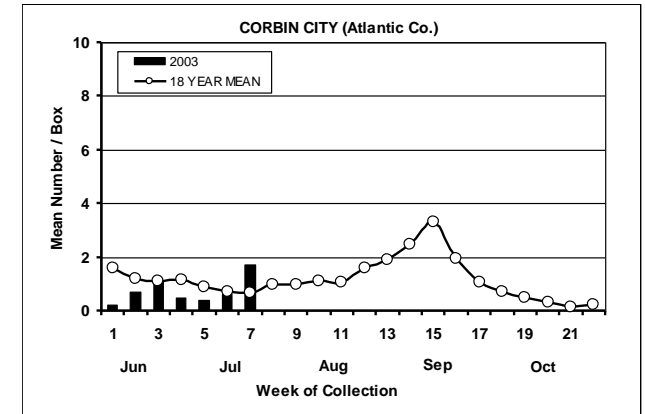
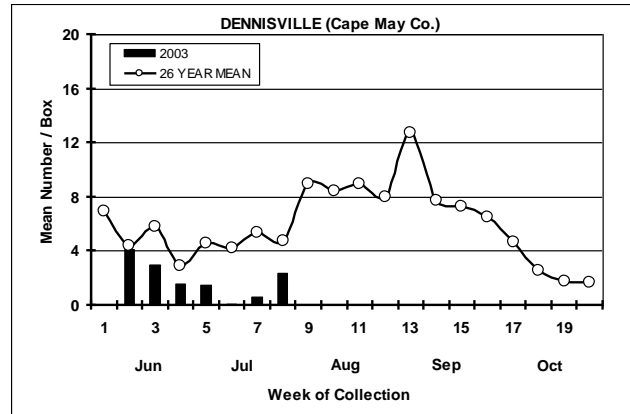
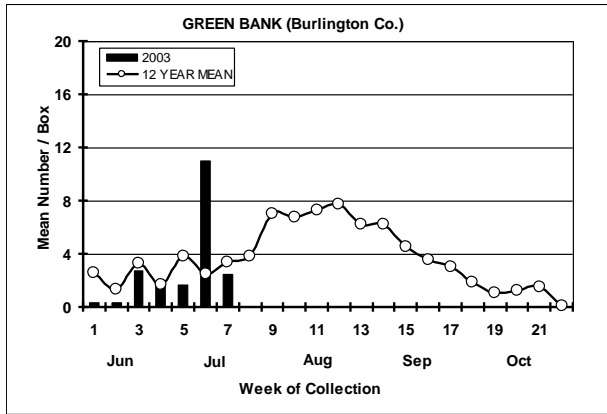
Collections submitted to PHEL for West Nile Virus testing

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	100	297	59	1,371	163	267	67	142	54	176	23	815	3,534
Total Specimens	1,745	7,975	1,275	41,154	3,657	6,687	1,332	809	1,419	1,104	68	11,315	78,540
No. Positive Pools	1	0	0	8	0	1	0	0	0	0	0	0	10

Remarks: *Culiseta melanura* populations remain at or above average at most of the NJ study sites being monitored for EEE. Dennisville collections are an exception but salt water intrusion is destroying cedar swamp breeding habitat along Delaware Bay, reducing the value of long-term means for the oldest study site in our NJ Vector Surveillance program. Collections appear to have dropped at the Green Bank study site in Burlington Co. where 2 EEE isolations have been made, to date, but conditions were less than ideal on the date that the resting boxes were sampled. Host-seeking mosquitoes made up a large proportion of the Green Bank collection this past week, indicating *Cs. melanura* are still emerging at that study site. EEE remains a problem on a national scale with human involvement now linked to 4 different states. WNV collections continue at an accelerated rate with 3,500 pools processed for evidence of the virus. Mosquito pools from 8 different counties have tested positive with no apparent geographic pattern or clustering to this point in time. MIR values for the *Culex* complex are only 0.57 positives per 1000 tested, but infection rates are normally low in July, not escalating until some time in August.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through July 18, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	23	68	
Ae. cinereus	14	52	
Ae. vexans	163	3657	
Aedes/Ochleratus sp.	2	3	
An. barberi	2	2	
An. bradleyi	4	6	
An. crucians	1	3	
An. punctipennis	103	533	
An. quadrimaculatus	73	1286	
An. walkeri	3	53	
Cq. perturbans	49	1285	
Cs. inornata	1	2	
Cs. melanura	192	2864	
Cx. erraticus	7	78	
Cx. mix	1371	41154	8
Cx. pipiens	100	1745	1
Cx. restuans	297	7975	
Cx. salinarius	59	1275	
Cx. territans	32	172	
Oc. abserratus	3	9	
Oc. atlanticus	5	6	
Oc. aurifer	8	176	
Oc. canadensis	267	6687	1
Oc. cantator	104	1782	
Oc. excrucians	10	73	
Oc. grossbecki	50	562	
Oc. japonicus	176	1104	
Oc. mitchellae	1	1	
Oc. sollicitans	54	1419	
Oc. sticticus	75	1444	
Oc. stimulans	24	249	
Oc. taeniorhynchus	1	1	
Oc. thibaulti	5	127	
Oc. triseriatus	142	809	
Oc. trivittatus	67	1332	
Or. signifera	2	16	
Ps. columbiae	6	15	
Ps. ferox	37	514	
Ps. howardi	1	1	
Grand Total	3534	78540	10

Submissions by County through July 18, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		216	7415	1
	Ae. vexans	12	486	
	An. punctipennis	1	1	
	Cq. perturbans	3	141	
	Cs. melanura	29	302	
	Cx. mix	64	2742	
	Cx. restuans	5	130	
	Cx. salinarius	2	52	
	Cx. territans	3	17	
	Oc. canadensis	32	1320	1
	Oc. cantator	27	1114	
	Oc. grossbecki	4	59	
	Oc. japonicus	3	19	
	Oc. sollicitans	11	471	
	Oc. sticticus	5	124	
	Oc. triseriatus	5	139	
	Oc. trivittatus	3	119	
	Oc. thibaulti	5	127	
	Or. signifera	1	15	
	Ps. ferox	1	37	
Bergen		242	9028	3
	Ae. albopictus	1	1	
	Ae. cinereus	1	10	
	Ae. vexans	9	402	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	150	7062	3
	Cx. pipiens	9	152	
	Cx. restuans	10	275	
	Cx. salinarius	9	437	
	Cx. territans	1	2	
	Oc. canadensis	4	111	
	Oc. grossbecki	1	19	
	Oc. japonicus	24	389	
	Oc. sticticus	1	15	
	Oc. triseriatus	15	121	
	Oc. trivittatus	1	20	
Burlington		217	3077	0
	Ae. albopictus	3	10	
	Ae. cinereus	4	4	
	Ae. vexans	15	201	
	An. punctipennis	9	54	
	An. quadrimaculatus	2	3	
	Cq. perturbans	1	45	
	Cs. melanura	47	892	
	Cx. mix	57	1001	
	Cx. restuans	6	31	
	Cx. salinarius	4	8	
	Oc. canadensis	29	604	
	Oc. cantator	6	34	

	Oc. grossbecki	8	31	
	Oc. japonicus	2	5	
	Oc. sollicitans	4	70	
	Oc. sticticus	3	19	
	Oc. stimulans	2	10	
	Oc. triseriatus	6	12	
	Oc. trivittatus	2	3	
	An. barberi	1	1	
	An. crucians	1	3	
	Ps. ferox	2	33	
	An. bradleyi	1	1	
	Oc. mitchellae	1	1	
	Ps. howardi	1	1	
Camden		70	530	0
	Ae. albopictus	3	6	
	Ae. vexans	4	7	
	An. punctipennis	10	128	
	An. quadrimaculatus	3	5	
	Cq. perturbans	1	1	
	Cs. melanura	17	52	
	Cx. mix	12	242	
	Cx. restuans	7	57	
	Cx. territans	3	7	
	Oc. canadensis	2	5	
	Oc. grossbecki	2	6	
	Oc. sollicitans	1	1	
	Oc. sticticus	1	1	
	Oc. triseriatus	3	11	
	An. bradleyi	1	1	
Cape May		232	5381	0
	An. punctipennis	4	14	
	An. quadrimaculatus	25	1132	
	Cs. melanura	25	527	
	Cx. mix	128	2363	
	Cx. restuans	10	342	
	Cx. salinarius	2	4	
	Cx. territans	7	61	
	Oc. canadensis	15	599	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
	Oc. triseriatus	2	5	
	An. bradleyi	1	2	
Cumberland		74	420	0
	Ae. vexans	2	2	
	An. punctipennis	1	1	
	Cs. melanura	3	5	
	Cx. mix	10	47	
	Cx. restuans	6	136	
	Cx. territans	1	1	
	Oc. canadensis	19	83	
	Oc. cantator	1	2	
	Oc. grossbecki	6	9	

	Oc. sticticus	9	73	
	Oc. triseriatus	2	2	
	Oc. trivittatus	4	11	
	Ps. ferox	8	46	
	Oc. atlanticus	2	2	
Essex		96	1595	0
	Ae. vexans	18	487	
	An. punctipennis	3	4	
	An. quadrimaculatus	1	1	
	Cx. mix	20	257	
	Oc. canadensis	4	20	
	Oc. japonicus	2	3	
	Oc. sticticus	24	415	
	Oc. stimulans	6	29	
	Oc. triseriatus	1	1	
	Oc. trivittatus	10	224	
	Ps. ferox	7	154	
Gloucester		181	4465	1
	Ae. albopictus	10	15	
	Ae. vexans	6	107	
	An. punctipennis	5	8	
	Cx. mix	109	3817	1
	Cx. pipiens	2	3	
	Cx. restuans	6	160	
	Cx. salinarius	5	149	
	Cx. territans	1	4	
	Oc. canadensis	2	17	
	Oc. excrucians	2	3	
	Oc. japonicus	15	35	
	Oc. sticticus	2	5	
	Oc. triseriatus	11	35	
	Oc. trivittatus	1	4	
	Ps. ferox	3	101	
	An. bradleyi	1	2	
Hudson		60	1255	0
	Ae. albopictus	1	18	
	Ae. vexans	3	145	
	Cq. perturbans	4	151	
	Cx. mix	28	157	
	Cx. pipiens	5	107	
	Cx. restuans	7	321	
	Cx. salinarius	6	300	
	Oc. sollicitans	1	7	
	Oc. triseriatus	2	2	
	Oc. trivittatus	1	44	
	Aedes/Ochleratus sp.	2	3	
Hunterdon		115	4594	1
	Ae. vexans	1	4	
	An. punctipennis	1	2	
	Cx. mix	92	4409	1
	Oc. japonicus	9	56	

	Oc. triseriatus	9	31	
	Oc. trivittatus	3	92	
Mercer		310	6751	0
	Ae. cinereus	2	4	
	Ae. vexans	16	447	
	An. punctipennis	13	74	
	An. quadrimaculatus	2	2	
	Cq. perturbans	10	441	
	Cs. melanura	2	2	
	Cx. mix	12	264	
	Cx. pipiens	22	198	
	Cx. restuans	130	3763	
	Cx. salinarius	10	50	
	Cx. territans	3	6	
	Oc. canadensis	43	1189	
	Oc. cantator	1	2	
	Oc. excrucians	3	7	
	Oc. grossbecki	14	188	
	Oc. japonicus	13	32	
	Oc. sticticus	3	6	
	Oc. triseriatus	3	11	
	Oc. trivittatus	1	5	
	Ps. columbiae	1	2	
	Ps. ferox	4	56	
	Oc. atlanticus	2	2	
Middlesex		106	1348	0
	Ae. albopictus	1	1	
	Ae. vexans	8	73	
	An. punctipennis	4	4	
	An. quadrimaculatus	2	2	
	Cq. perturbans	1	1	
	Cx. mix	63	1020	
	Oc. canadensis	5	47	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. sollicitans	9	96	
	Oc. triseriatus	1	1	
	Oc. trivittatus	4	48	
	Ps. columbiae	2	8	
	Ps. ferox	2	26	
Monmouth		305	4081	1
	Ae. albopictus	1	1	
	Ae. vexans	14	288	
	An. punctipennis	4	11	
	An. quadrimaculatus	4	7	
	Cq. perturbans	3	7	
	Cs. melanura	13	18	
	Cx. mix	125	1644	
	Cx. pipiens	25	774	overwintering
	Cx. restuans	13	209	
	Cx. salinarius	2	12	

	Cx. territans	1	3	
	Oc. abserratus	2	6	
	Oc. canadensis	25	296	
	Oc. cantator	19	81	
	Oc. excrucians	1	3	
	Oc. japonicus	16	43	
	Oc. sollicitans	18	515	
	Oc. triseriatus	12	153	
	Oc. trivittatus	3	4	
	An. barberi	1	1	
	Oc. taeniorhynchus	1	1	
	Ps. ferox	2	4	
Morris		142	2896	1
	Ae. cinereus	2	17	
	Ae. vexans	8	110	
	An. punctipennis	6	32	
	An. quadrimaculatus	2	6	
	An. walkeri	1	2	
	Cq. perturbans	6	208	
	Cx. mix	34	1464	1
	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	15	62	
	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	17	100	
	Oc. trivittatus	4	18	
	Ps. ferox	1	5	
Ocean		221	4586	0
	Ae. albopictus	1	3	
	Ae. vexans	13	242	
	An. punctipennis	2	14	
	An. quadrimaculatus	1	34	
	Cq. perturbans	5	20	
	Cs. inornata	1	2	
	Cs. melanura	12	96	
	Cx. mix	63	2032	
	Cx. restuans	26	751	
	Cx. salinarius	8	241	
	Cx. territans	6	27	
	Oc. canadensis	21	438	
	Oc. cantator	18	244	
	Oc. grossbecki	1	1	
	Oc. japonicus	10	27	
	Oc. sollicitans	9	258	
	Oc. sticticus	1	3	
	Oc. triseriatus	16	104	
	Oc. trivittatus	2	5	
	Or. signifera	1	1	

	Ps. ferox	3	41	
	Oc. atlanticus	1	2	
Passaic		84	2538	0
	An. punctipennis	2	5	
	Cx. mix	43	1881	
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	9	29	
	Oc. sticticus	3	8	
	Oc. triseriatus	2	3	
Salem		261	3939	0
	Ae. albopictus	2	13	
	Ae. vexans	7	41	
	An. punctipennis	9	42	
	An. quadrimaculatus	15	65	
	Cq. perturbans	6	8	
	Cs. melanura	43	967	
	Cx. erraticus	7	78	
	Cx. mix	88	1588	
	Cx. pipiens	16	320	
	Cx. restuans	12	189	
	Cx. salinarius	2	2	
	Cx. territans	4	29	
	Oc. canadensis	18	454	
	Oc. cantator	18	110	
	Oc. grossbecki	5	21	
	Oc. sollicitans	1	1	
	Oc. triseriatus	4	5	
	Ps. columbiae	3	5	
	Ps. ferox	1	1	
Somerset		112	2330	1
	Ae. vexans	2	2	
	An. punctipennis	3	3	
	An. quadrimaculatus	2	2	
	Cx. mix	73	2155	1
	Cx. pipiens	1	1	
	Cx. restuans	3	3	
	Oc. japonicus	15	67	
	Oc. triseriatus	7	9	
	Oc. trivittatus	4	81	
	Ps. ferox	2	7	
Sussex		240	5815	0
	Ae. cinereus	4	16	
	Ae. vexans	13	468	
	An. punctipennis	14	90	
	An. quadrimaculatus	4	17	
	Cq. perturbans	9	262	
	Cs. melanura	1	3	
	Cx. mix	75	2212	

	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	26	284	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	17	56	
	Oc. trivittatus	16	621	
	Ps. ferox	1	3	
Union		74	2016	0
	Ae. vexans	2	7	
	Cx. mix	23	884	
	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	3	4	
	Oc. trivittatus	2	5	
Warren		176	4480	1
	Ae. cinereus	1	1	
	Ae. vexans	10	138	
	An. punctipennis	10	38	
	An. quadrimaculatus	6	6	
	An. walkeri	2	51	
	Cx. mix	102	3913	1
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	3	15	
	Oc. cantator	5	67	
	Oc. japonicus	13	48	
	Oc. sticticus	1	9	
	Oc. stimulans	5	34	
	Oc. triseriatus	4	4	
	Oc. trivittatus	6	28	
Grand Total		3534	78540	10