

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 9

Culiseta melanura Monitor July 28-August 1, 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.)	3.8	1.5	976	47	2	Waterford (Camden Co.)	0.7	0.1	109	23	0
Corbin City (Atlantic Co.)	1.0	3.0	219	41	0	Centerton (Salem Co.)	2.1	2.8	1,100	46	0
Dennisville (Cape May Co.)	9.0	10.4	783	31	0	Turkey Swamp (Monmouth Co.)	NA	0.8	31	17	0

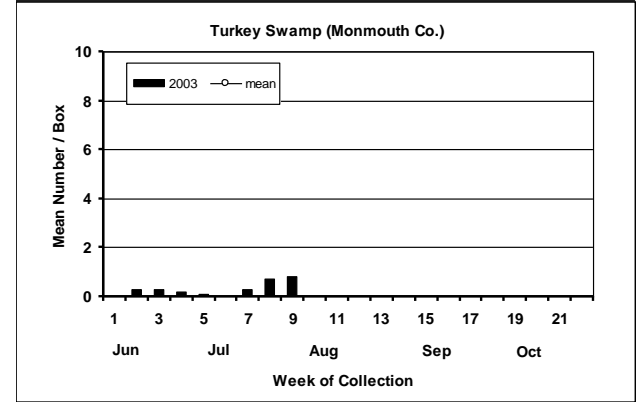
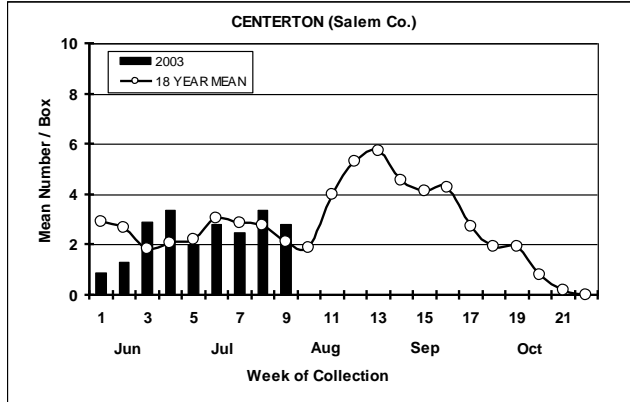
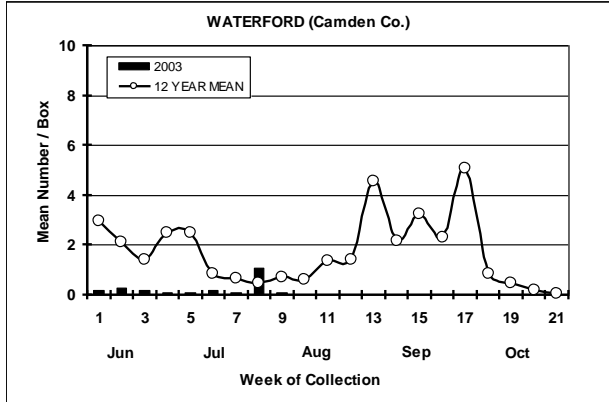
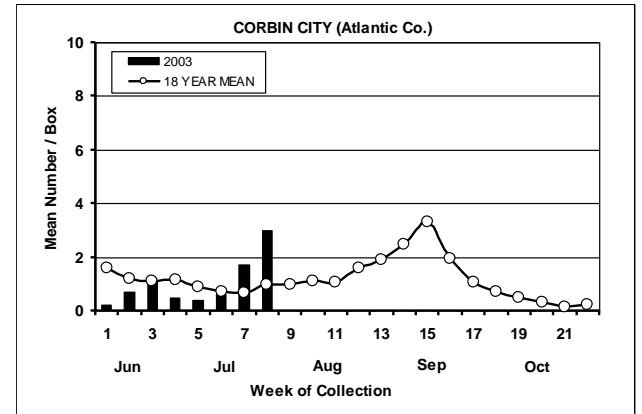
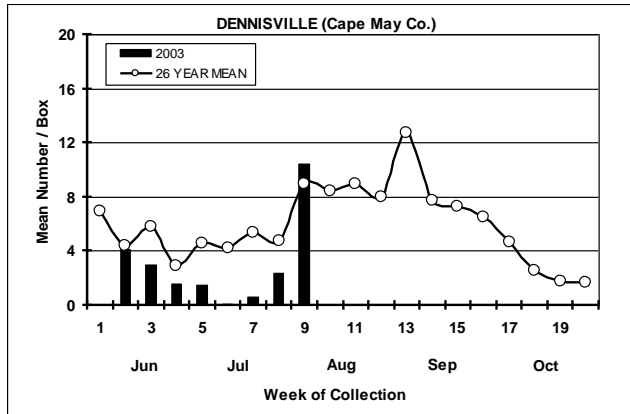
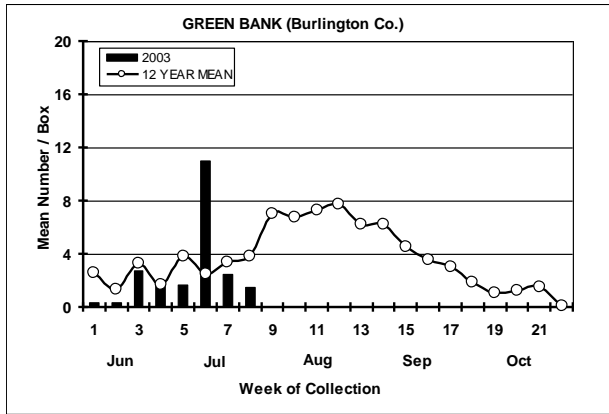
Collections submitted to PHEL for West Nile Virus testing

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	107	318	77	1,515	175	284	68	172	64	196	34	927	3,937
Total Specimens	1,985	8,589	1,768	46,506	3,858	7,157	1,382	1,089	1,560	1,244	103	13,527	88,768
No. Positive Pools	1	0	0	19	0	1	0	0	0	0	0	0	21

Remarks: *Culiseta melanura* populations are currently above average at most of the sites being monitored for EEE. The Dennisville site showed the sharpest rise with resting box collections increasing from 2.4 to 10.4 *Cs. melanura* per box over the past week. Population increases at this point in the season is an indication that the 2nd generation of *Cs. melanura* is continuing to emerge in most areas of southern New Jersey. Large numbers of newly emerged *Cs. melanura* in the presence of EEE creates ideal conditions for amplification of virus in local birds. Positive crows as well as positive mosquito pools indicate that WNV is also being amplified in local birds on a statewide basis. Virus activity has now been documented in 19 of NJ's 21 counties. WNV still appears to be confined to the amplification phase of the cycle, to date, with limited spill over to bridge vectors. At this point of the 2002 season, WNV had been documented in 12 different mosquito species.

New Jersey Agricultural Experiment Station Publication No. PT-40500-09-03
Supported by State funds and funding by the NJ State Mosquito Control Commission.
Summary Prepared by: Wayne J. Crans, Rutgers University

Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through August 4, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	34	103	
Ae. cinereus	14	52	
Ae. vexans	175	3858	
Aedes/Ochleratus sp.	2	3	
An. barberi	2	2	
An. bradleyi	7	31	
An. crucians	1	3	
An. punctipennis	119	803	
An. quadrimaculatus	85	1753	
An. walkeri	6	149	
Cq. perturbans	58	1448	
Cs. inornata	1	2	
Cs. melanura	235	3911	
Cx. erraticus	7	78	
Cx. mix	1515	46506	19
Cx. pipiens	107	1985	1
Cx. restuans	318	8589	
Cx. salinarius	77	1768	
Cx. territans	35	226	
Oc. abserratus	3	9	
Oc. atlanticus	5	6	
Oc. atropalpus	1	1	
Oc. aurifer	8	176	
Oc. canadensis	284	7157	1
Oc. cantator	108	1801	
Oc. excrucians	10	73	
Oc. grossbecki	51	563	
Oc. japonicus	196	1244	
Oc. mitchellae	1	1	
Oc. sollicitans	64	1560	
Oc. sticticus	79	1455	
Oc. stimulans	24	249	
Oc. taeniorhynchus	6	38	
Oc. thibaulti	6	128	
Oc. triseriatus	172	1089	
Oc. trivittatus	68	1382	
Or. signifera	3	17	
Ps. columbiae	8	19	
Ps. ferox	41	529	
Ps. howardi	1	1	
Grand Total	3937	88768	21

Submissions by County through August 4, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		276	9205	1
	Ae. albopictus	1	9	
	Ae. vexans	13	540	
	An. punctipennis	1	1	
	Cq. perturbans	4	149	
	Cs. melanura	49	1058	
	Cx. mix	74	3242	
	Cx. restuans	8	146	
	Cx. salinarius	7	236	
	Cx. territans	3	17	
	Oc. canadensis	39	1530	1
	Oc. cantator	28	1122	
	Oc. grossbecki	4	59	
	Oc. japonicus	6	36	
	Oc. sollicitans	13	473	
	Oc. sticticus	5	124	
	Oc. triseriatus	9	161	
	Oc. trivittatus	3	119	
	Oc. thibaulti	5	127	
	Or. signifera	1	15	
	Ps. ferox	2	40	
	An. bradleyi	1	1	
Bergen		258	9683	4
	Ae. albopictus	1	1	
	Ae. cinereus	1	10	
	Ae. vexans	10	411	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	160	7562	4
	Cx. pipiens	9	152	
	Cx. restuans	10	275	
	Cx. salinarius	11	489	
	Cx. territans	1	2	
	Oc. canadensis	5	156	
	Oc. grossbecki	1	19	
	Oc. japonicus	25	424	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	
	Oc. trivittatus	1	20	
Burlington		236	3274	0
	Ae. albopictus	6	27	
	Ae. cinereus	4	4	
	Ae. vexans	15	201	
	An. punctipennis	11	76	
	An. quadrimaculatus	2	3	
	Cq. perturbans	1	45	
	Cs. melanura	50	957	
	Cx. mix	62	1070	
	Cx. restuans	7	34	
	Cx. salinarius	4	8	

	Cx. territans	1	6	
	Oc. canadensis	29	604	
	Oc. cantator	6	34	
	Oc. grossbecki	8	31	
	Oc. japonicus	3	14	
	Oc. sollicitans	4	70	
	Oc. sticticus	3	19	
	Oc. stimulans	2	10	
	Oc. triseriatus	8	17	
	Oc. trivittatus	2	3	
	An. barberi	1	1	
	Or. signifera	1	1	
	An. crucians	1	3	
	Ps. ferox	2	33	
	An. bradleyi	1	1	
	Oc. mitchellae	1	1	
	Ps. howardi	1	1	
Camden		102	1215	0
	Ae. albopictus	5	8	
	Ae. vexans	5	8	
	An. punctipennis	14	282	
	An. quadrimaculatus	3	5	
	Cq. perturbans	4	87	
	Cs. melanura	23	144	
	Cx. mix	18	489	
	Cx. restuans	8	74	
	Cx. salinarius	3	31	
	Cx. territans	4	33	
	Oc. canadensis	4	13	
	Oc. grossbecki	2	6	
	Oc. sollicitans	1	1	
	Oc. sticticus	1	1	
	Oc. triseriatus	4	12	
	An. bradleyi	2	20	
	Oc. atropalpus	1	1	
Cape May		259	5962	0
	An. punctipennis	5	16	
	An. quadrimaculatus	33	1532	
	Cs. melanura	32	628	
	Cx. mix	137	2434	
	Cx. restuans	10	342	
	Cx. salinarius	3	6	
	Cx. territans	7	61	
	Oc. canadensis	15	599	
	Oc. cantator	7	110	
	Oc. grossbecki	6	222	
	Oc. triseriatus	2	5	
	An. bradleyi	2	7	

Cumberland	97	705	0
Ae. vexans	3	9	
An. punctipennis	1	1	
An. quadrimaculatus	1	1	
Cs. melanura	3	5	
Cx. mix	10	47	
Cx. pipiens	1	14	
Cx. restuans	8	190	
Cx. salinarius	3	150	
Cx. territans	1	1	
Oc. canadensis	20	84	
Oc. cantator	2	3	
Oc. grossbecki	6	9	
Oc. sollicitans	5	15	
Oc. sticticus	9	73	
Oc. triseriatus	4	4	
Oc. trivittatus	4	11	
Ps. columbiae	1	3	
Oc. taeniorhynchus	5	37	
Ps. ferox	8	46	
Oc. atlanticus	2	2	
Essex	103	1651	0
Ae. vexans	18	487	
An. punctipennis	3	4	
An. quadrimaculatus	1	1	
Cx. mix	25	311	
Oc. canadensis	4	20	
Oc. japonicus	2	3	
Oc. sticticus	26	417	
Oc. stimulans	6	29	
Oc. triseriatus	1	1	
Oc. trivittatus	10	224	
Ps. ferox	7	154	
Gloucester	196	4850	3
Ae. albopictus	14	21	
Ae. vexans	6	107	
An. punctipennis	5	8	
Cx. mix	118	4186	3
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	17	45	
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	130	5311	2
Ae. vexans	1	4	
An. punctipennis	2	19	
Cx. mix	105	5059	2
Oc. japonicus	9	56	
Oc. triseriatus	9	31	
Oc. trivittatus	4	142	
Mercer	330	7377	2
Ae. cinereus	2	4	
Ae. vexans	17	452	
An. punctipennis	14	79	
An. quadrimaculatus	2	2	
Cq. perturbans	11	488	
Cs. melanura	2	2	
Cx. mix	12	264	2
Cx. pipiens	26	418	
Cx. restuans	136	3992	
Cx. salinarius	12	102	
Cx. territans	3	6	
Oc. canadensis	44	1244	
Oc. cantator	1	2	
Oc. excrucians	3	7	
Oc. grossbecki	15	189	
Oc. japonicus	14	35	
Oc. sticticus	3	6	
Oc. triseriatus	3	11	
Oc. trivittatus	1	5	
Ps. columbiae	1	2	
Ps. ferox	6	65	
Oc. atlanticus	2	2	
Middlesex	121	1596	1
Ae. albopictus	1	1	
Ae. vexans	8	73	
An. punctipennis	4	4	
An. quadrimaculatus	2	2	
Cq. perturbans	1	1	
Cx. mix	73	1250	1
Oc. canadensis	5	47	
Oc. cantator	2	18	

	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. japonicus	3	13	
	Oc. sollicitans	9	96	
	Oc. triseriatus	3	6	
	Oc. trivittatus	4	48	
	Ps. columbiae	2	8	
	Ps. ferox	2	26	
Monmouth		339	4879	1
	Ae. albopictus	2	2	
	Ae. vexans	15	323	
	An. punctipennis	6	31	
	An. quadrimaculatus	4	7	
	Cq. perturbans	4	8	
	Cs. melanura	16	26	
	Cx. mix	131	1839	
	Cx. pipiens	26	777	overwintering
	Cx. restuans	17	349	
	Cx. salinarius	3	17	
	Cx. territans	1	3	
	Oc. abserratus	2	6	
	Oc. canadensis	28	433	
	Oc. cantator	20	86	
	Oc. excrucians	1	3	
	Oc. japonicus	18	49	
	Oc. sollicitans	19	565	
	Oc. sticticus	1	6	
	Oc. triseriatus	17	338	
	Oc. trivittatus	3	4	
	Oc. thibaulti	1	1	
	An. barberi	1	1	
	Oc. taeniorhynchus	1	1	
	Ps. ferox	2	4	
Morris		155	3436	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	45	1999	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	16	65	
	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	18	102	
	Oc. trivittatus	4	18	
	Ps. ferox	1	5	

Ocean	259	5345	1
Ae. albopictus	1	3	
Ae. vexans	16	316	
An. punctipennis	4	37	
An. quadrimaculatus	2	84	
Cq. perturbans	8	41	
Cs. inornata	1	2	
Cs. melanura	16	121	
Cx. mix	68	2282	1
Cx. pipiens	1	3	
Cx. restuans	30	906	
Cx. salinarius	9	258	
Cx. territans	7	49	
Oc. canadensis	23	452	
Oc. cantator	19	249	
Oc. grossbecki	1	1	
Oc. japonicus	11	28	
Oc. sollicitans	11	332	
Oc. sticticus	2	6	
Oc. triseriatus	20	122	
Oc. trivittatus	2	5	
Ps. columbiae	1	1	
Or. signifera	1	1	
Ps. ferox	4	44	
Oc. atlanticus	1	2	
Passaic	99	3121	0
An. punctipennis	2	5	
Cx. mix	55	2444	
Cx. pipiens	6	33	
Cx. restuans	16	558	
Cx. salinarius	1	1	
Oc. canadensis	2	20	
Oc. japonicus	11	43	
Oc. sticticus	3	8	
Oc. triseriatus	3	9	
Salem	276	4168	0
Ae. albopictus	2	13	
Ae. vexans	10	57	
An. punctipennis	9	42	
An. quadrimaculatus	15	65	
Cq. perturbans	6	8	
Cs. melanura	43	967	
Cx. erraticus	7	78	
Cx. mix	97	1796	
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	7	10	

	Ps. columbiae	3	5	
	Ps. ferox	1	1	
Somerset		120	2644	1
	Ae. vexans	2	2	
	An. punctipennis	3	3	
	An. quadrimaculatus	2	2	
	Cx. mix	81	2469	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		255	6095	1
	Ae. cinereus	4	16	
	Ae. vexans	13	468	
	An. punctipennis	15	91	
	An. quadrimaculatus	5	18	
	Cq. perturbans	9	262	
	Cs. melanura	1	3	
	Cx. mix	83	2456	1
	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	28	304	
	Oc. sticticus	18	756	
	Oc. stimulans	10	174	
	Oc. triseriatus	20	70	
	Oc. trivittatus	16	621	
	Ps. ferox	1	3	
Union		75	2023	0
	Ae. vexans	2	7	
	Cx. mix	24	891	
	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	191	4973	3
Ae. cinereus	1	1	
Ae. vexans	10	138	
An. punctipennis	12	64	
An. quadrimaculatus	7	21	
An. walkeri	5	147	
Cx. mix	109	4259	3
Cx. restuans	4	22	
Oc. aurifer	4	106	
Oc. canadensis	3	15	
Oc. cantator	5	67	
Oc. japonicus	14	57	
Oc. sticticus	1	9	
Oc. stimulans	5	34	
Oc. triseriatus	5	5	
Oc. trivittatus	6	28	
Grand Total	3937	88768	21