

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 13

Culiseta melanura Monitor August 25-29, 2003

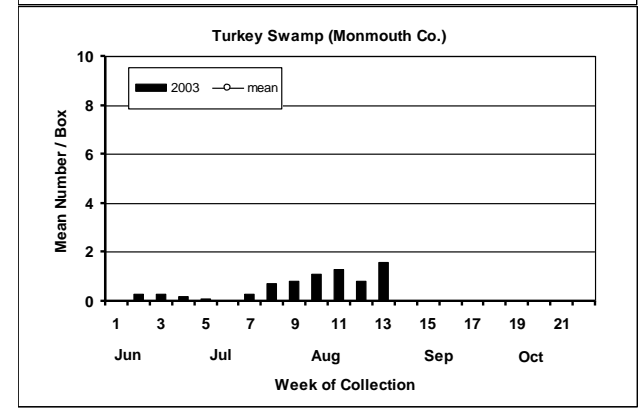
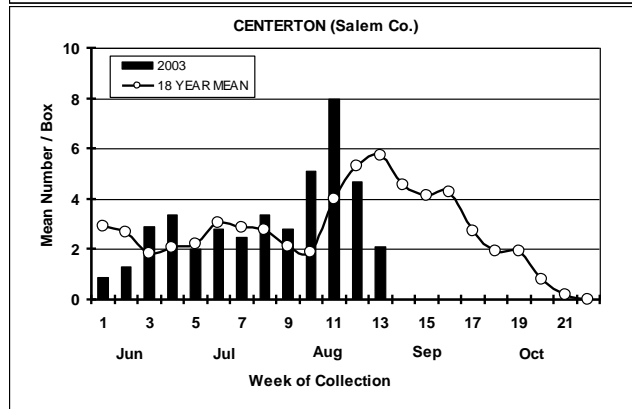
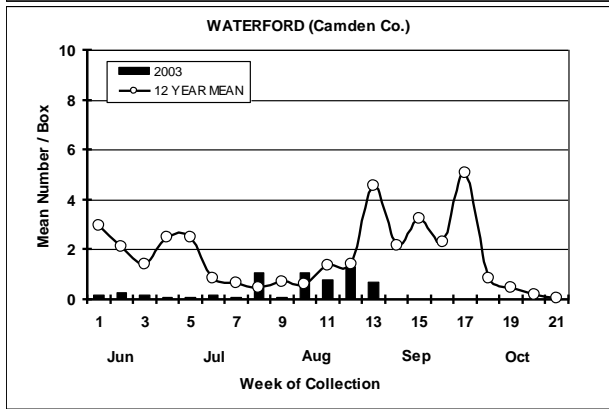
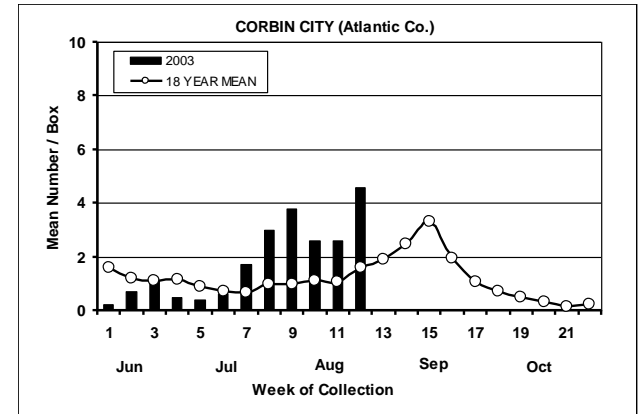
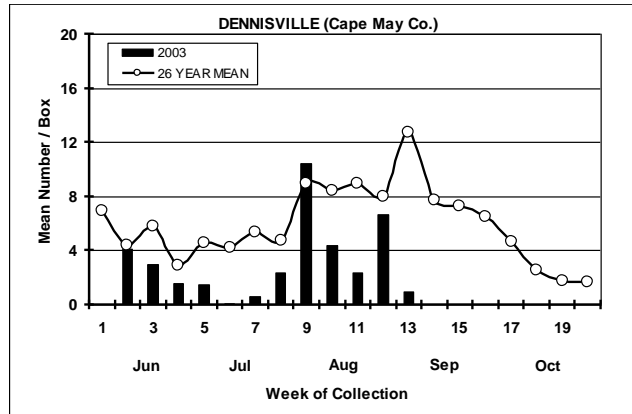
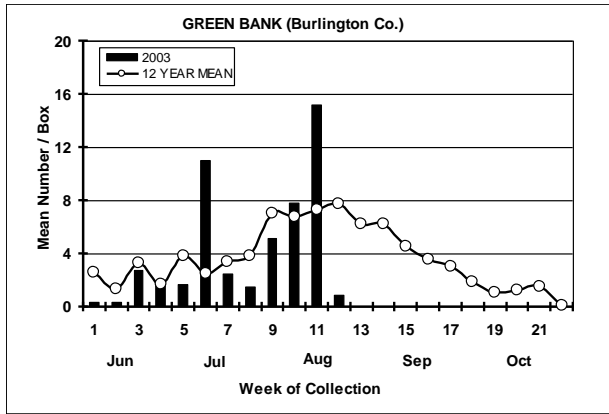
Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date
Green Bank (Burlington Co.)	7.7	0.9	2219	80	7	Waterford (Camden Co.)	4.6	0.7	308	35	1
Corbin City (Atlantic Co.)	1.6	4.6	576	60	0	Centerton (Salem Co.)	5.7	2.1	2075	74	0
Dennisville (Cape May Co.)	12.7	1.0	1153	50	0	Turkey Swamp (Monmouth Co.)	NA	1.6	88	29	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	167	388	149	2,069	269	322	120	255	85	309	77	1,454	5,664
Total Specimens	3,773	10,444	4,197	63,032	5,839	7,651	2,341	1,697	1,937	2,173	435	22,600	126,119
No. Positive Pools	12	19	1	102	3	1	1	0	0	2	1	10	152

Remarks: Resting box collections for *Cs. melanura* dropped below the long term average at several of the study sites during the past week. The most dramatic was at Green Bank where an August 21 state airspray was conducted for *Oc. sollicitans* control. The potential for transfer of EEE virus from birds to bridge vectors still exists but will diminish progressively over the next several weeks as bird migration accelerates and summer resident species begin moving south. Amplification of EEE requires high levels of infected individuals in local populations and migration often dilutes infection rates through the progressive influx of uninfected migrants from the north. Equine cases of WNV have increased somewhat since August rains produced broods of floodwater mosquitoes and virus began appearing in a variety of bridge vectors. Nine equine cases have now been confirmed from Gloucester Co. (3), Salem Co. (2), Camden Co. (1), Monmouth Co. (1) Mercer Co. (1) and Passaic Co. (1). Despite the accelerated WNV activity in recent weeks, overall infection rates in NJ mosquito populations are well below levels seen last year. Week 13 of the 2002 vector surveillance season tallied 390 positive pools from 17 different species and Minimum Infection Rates (MIR) of 6.60 in the primary amplification vector, *Cx. pipiens*. This year's surveillance effort has detected WNV in only 10 species to date, with MIR values of 3.18 in *Cx. pipiens*.

Culiseta melanura Population Graphs



Mosquito Species Submitted for WNV Testing through August 29, 2003

Species	Pools	Mosquitoes	Positives
Ae. albopictus	77	435	1
Ae. cinereus	16	68	
Ae. vexans	269	5839	3
Aedes/Ochleratus sp.	2	3	
An. atropos	1	11	
An. barberi	4	4	
An. bradleyi	22	163	
An. crucians	1	3	
An. punctipennis	195	1600	
An. quadrimaculatus	140	2696	
An. walkeri	7	150	
Cq. perturbans	92	1887	1
Cs. inornata	2	3	
Cs. melanura	432	8908	6
Cx. erraticus	12	190	
Cx. mix	2069	63032	102
Cx. pipiens	167	3773	12
Cx. restuans	388	10444	19
Cx. salinarius	149	4197	1
Cx. territans	61	397	
Oc. abserratus	3	9	
Oc. atlanticus	10	18	
Oc. atropalpus	3	11	
Oc. aurifer	8	176	
Oc. canadensis	322	7651	1
Oc. cantator	111	1818	
Oc. excrucians	10	73	
Oc. grossbecki	55	572	
Oc. hendersoni	1	1	
Oc. japonicus	309	2173	2
Oc. mitchellae	1	1	
Oc. sollicitans	85	1937	
Oc. sticticus	90	1508	
Oc. stimulans	28	280	1
Oc. taeniorhynchus	9	103	
Oc. thibaulti	6	128	
Oc. triseriatus	255	1697	
Oc. trivittatus	120	2341	1
Or. signifera	3	17	
Ps. ciliata	7	33	
Ps. columbiae	43	748	1
Ps. ferox	69	954	1
Ps. howardii	4	17	
Ur. sapphirina	6	50	
Grand Total	5664	126119	152

Submissions by County through August 29, 2003

County	Species	Pools	Mosquitoes	Positives
Atlantic		388	12326	11
	Ae. albopictus	7	82	
	Ae. vexans	19	737	
	An. punctipennis	1	1	
	An. quadrimaculatus	2	3	
	Cq. perturbans	8	280	
	Cs. melanura	76	1756	
	Cx. erraticus	2	100	
	Cx. mix	102	4509	10
	Cx. pipiens	1	16	
	Cx. restuans	11	172	
	Cx. salinarius	12	401	
	Cx. territans	5	23	
	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	19	317	
	Oc. trivittatus	3	119	
	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		318	12477	13
	Ae. albopictus	3	29	
	Ae. cinereus	1	10	
	Ae. vexans	11	461	
	An. punctipennis	2	8	
	An. quadrimaculatus	4	4	
	Cx. mix	204	9712	13
	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	30	590	
	Oc. sticticus	1	15	
	Oc. triseriatus	16	135	

	Oc. trivittatus	2	70	
Burlington		335	5642	7
	Ae. albopictus	14	71	1
	Ae. cinereus	4	4	
	Ae. vexans	19	257	
	An. punctipennis	20	151	
	An. quadrimaculatus	7	17	
	Cq. perturbans	3	48	
	Cs. melanura	86	2340	3
	Cx. mix	75	1543	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	10	38	
	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		183	1967	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	26	555	
	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	364	8415	2
Ae. vexans	1	28	
An. punctipennis	6	17	
An. quadrimaculatus	53	2317	
Cq. perturbans	5	193	1
Cs. melanura	71	1628	1
Cx. erraticus	1	9	
Cx. mix	154	2653	
Cx. pipiens	2	23	
Cx. restuans	11	348	
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. sollicitans	1	15	
Oc. triseriatus	4	24	
An. bradleyi	5	43	
Cumberland	222	2738	5
Ae. albopictus	2	4	
Ae. cinereus	1	1	
Ae. vexans	15	157	
An. punctipennis	6	9	
An. quadrimaculatus	2	2	
Cq. perturbans	1	1	
Cs. melanura	4	6	
Cx. mix	26	101	
Cx. pipiens	16	551	3
Cx. restuans	14	293	2
Cx. salinarius	24	1163	

	Cx. territans	2	3	
	Oc. canadensis	28	103	
	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	8	82	
	Oc. taeniorhynchus	6	46	
	Ps. ferox	11	49	
	Oc. atlanticus	6	13	
	An. bradleyi	1	1	
Essex		170	2367	0
	Ae. vexans	25	558	
	An. punctipennis	3	4	
	An. quadrimaculatus	1	1	
	Cx. mix	55	778	
	Oc. canadensis	6	23	
	Oc. japonicus	5	11	
	Oc. sticticus	33	461	
	Oc. stimulans	8	31	
	Oc. triseriatus	7	8	
	Oc. trivittatus	16	279	
	Ps. ferox	11	213	
Gloucester		300	7269	26
	Ae. albopictus	26	57	
	Ae. vexans	8	158	
	An. punctipennis	9	17	
	An. quadrimaculatus	2	4	
	Cq. perturbans	2	3	
	Cs. melanura	9	385	
	Cx. mix	159	5619	21
	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	23	77	1
	Oc. sticticus	2	5	
	Oc. triseriatus	15	52	
	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		123	2314	1
	Ae. albopictus	3	23	
	Ae. vexans	5	170	
	Cq. perturbans	4	151	
	Cx. mix	72	607	
	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		190	7807	8
	Ae. vexans	1	4	
	An. punctipennis	5	38	
	Cx. mix	154	7377	8
	Oc. japonicus	11	96	
	Oc. triseriatus	10	34	
	Oc. trivittatus	6	214	
	Ps. columbiae	1	19	
	Ps. ferox	1	2	
	Ps. ciliata	1	23	
Mercer		405	9463	13
	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	4
	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		175	2493	9
	Ae. albopictus	1	1	
	Ae. vexans	14	140	1
	An. punctipennis	5	5	
	An. quadrimaculatus	4	4	
	Cq. perturbans	2	8	
	Cx. mix	102	1704	7
	Oc. canadensis	5	47	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. japonicus	4	15	
	Oc. sollicitans	12	165	
	Oc. triseriatus	7	18	
	Oc. trivittatus	5	50	
	Ps. columbiae	8	289	1
	Ps. ferox	2	26	
Monmouth		496	7307	7
	Ae. albopictus	3	7	
	Ae. vexans	27	657	1
	An. punctipennis	13	122	
	An. quadrimaculatus	7	27	
	Cq. perturbans	5	11	
	Cs. melanura	32	127	
	Cx. erraticus	2	3	
	Cx. mix	161	2300	
	Cx. pipiens	34	836	1
	Cx. restuans	30	749	5
	Cx. salinarius	12	202	
	Cx. territans	5	15	
	Oc. abserratus	2	6	
	Oc. canadensis	34	583	
	Oc. cantator	22	90	
	Oc. excrucians	1	3	
	Oc. japonicus	30	79	
	Oc. sollicitans	21	619	
	Oc. sticticus	1	6	
	Oc. triseriatus	27	559	

	Oc. trivittatus	8	30	
	Oc. thibaulti	1	1	
	Ps. columbiae	7	239	
	An. barberi	3	3	
	Oc. taeniorhynchus	1	1	
	Ps. ferox	4	29	
	Ur. sapphirina	1	1	
	Ps. ciliata	1	1	
	Oc. hendersoni	1	1	
Morris		193	4255	6
	Ae. cinereus	2	17	
	Ae. vexans	11	238	
	An. punctipennis	10	38	
	An. quadrimaculatus	2	6	
	An. walkeri	1	2	
	Cq. perturbans	7	217	
	Cx. mix	57	2385	5
	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	23	122	1
	Oc. sticticus	2	6	
	Oc. stimulans	1	2	
	Oc. triseriatus	19	104	
	Oc. trivittatus	13	247	
	Ps. ferox	2	7	
Ocean		410	7927	9
	Ae. albopictus	6	130	
	Ae. vexans	25	605	
	An. punctipennis	11	86	
	An. quadrimaculatus	6	127	
	Cq. perturbans	18	101	
	Cs. inornata	1	2	
	Cs. melanura	36	311	
	Cx. mix	89	2917	1
	Cx. pipiens	6	69	1
	Cx. restuans	46	1455	7
	Cx. salinarius	16	429	
	Cx. territans	10	75	
	Oc. canadensis	30	585	
	Oc. cantator	19	249	

Oc. grossbecki	2	3	
Oc. japonicus	24	135	
Oc. sollicitans	14	359	
Oc. sticticus	2	6	
Oc. triseriatus	32	158	
Oc. trivittatus	3	20	
Ps. columbiae	2	42	
Or. signifera	1	1	
Ps. ferox	6	50	
Oc. atlanticus	1	2	
An. bradleyi	3	5	
Ps. ciliata	1	5	
Passaic	152	4948	6
An. punctipennis	2	5	
Cx. mix	92	4037	6
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	381	6243	1
Ae. albopictus	2	13	
Ae. vexans	14	85	
An. punctipennis	13	84	
An. quadrimaculatus	24	115	
Cq. perturbans	7	9	
Cs. melanura	72	1975	1
Cx. erraticus	7	78	
Cx. mix	130	2633	
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	7	25	
Oc. sollicitans	2	2	
Oc. triseriatus	8	11	
Ps. columbiae	10	61	
Ps. ferox	1	1	

An. bradleyi	1	1	
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	336	8008	4
Ae. cinereus	4	16	
Ae. vexans	16	607	
An. punctipennis	20	147	
An. quadrimaculatus	6	22	
Cq. perturbans	11	278	
Cs. melanura	3	20	
Cx. mix	125	3812	4
Cx. pipiens	3	19	
Cx. restuans	16	576	
Cx. salinarius	3	24	
Cx. territans	2	13	
Oc. abserratus	1	3	
Oc. aurifer	1	50	
Oc. canadensis	12	290	
Oc. excrucians	3	58	
Oc. japonicus	37	360	
Oc. sticticus	18	756	
Oc. stimulans	10	174	
Oc. triseriatus	25	92	
Oc. trivittatus	18	687	
Ps. ferox	2	4	
Union	91	2485	2
Ae. vexans	2	7	
An. punctipennis	1	1	
Cx. mix	34	1323	2
Cx. pipiens	4	19	

	Cx. restuans	9	172	
	Cx. salinarius	4	6	
	Oc. canadensis	21	910	
	Oc. japonicus	6	24	
	Oc. sollicitans	1	7	
	Oc. sticticus	2	4	
	Oc. triseriatus	3	4	
	Oc. trivittatus	3	7	
	Ps. ferox	1	1	
Warren		251	5753	7
	Ae. cinereus	1	1	
	Ae. vexans	19	251	1
	An. punctipennis	18	153	
	An. quadrimaculatus	7	21	
	An. walkeri	5	147	
	Cq. perturbans	1	1	
	Cx. mix	123	4508	4
	Cx. restuans	4	22	
	Oc. aurifer	4	106	
	Oc. canadensis	4	50	
	Oc. cantator	5	67	
	Oc. japonicus	22	78	
	Oc. sticticus	3	14	
	Oc. stimulans	7	63	1
	Oc. triseriatus	11	23	
	Oc. trivittatus	17	248	1
Grand Total		5,664	126,119	152