

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 4

Culiseta melanura Monitor

June 23 - 27, 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.)	1.7	1.3	163	19	0	Waterford (Camden Co.)	2.5	< 1	35	10	0
Corbin City (Atlantic Co.)	1.2	0.5	62	14	0	Centerton (Salem Co.)	2.1	3.4	425	18	0
Dennisville (Cape May Co.)	2.0	1.6	237	12	0	Turkey Swamp (Monmouth Co.)	NA	0.2	9	8	0

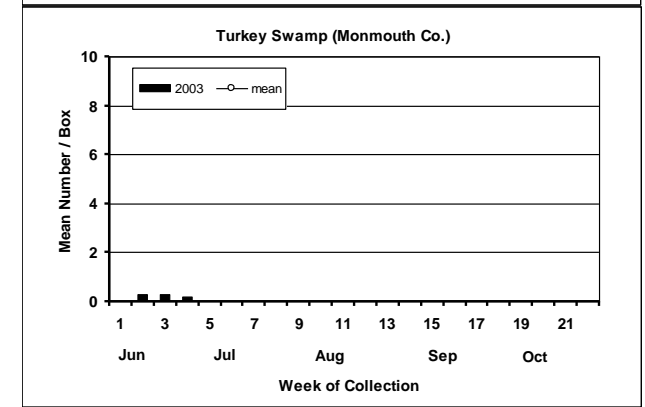
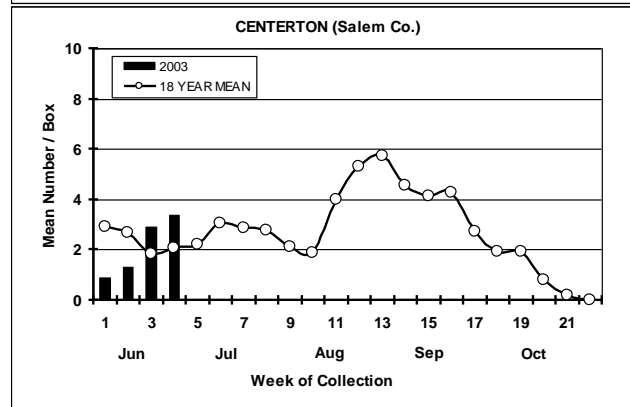
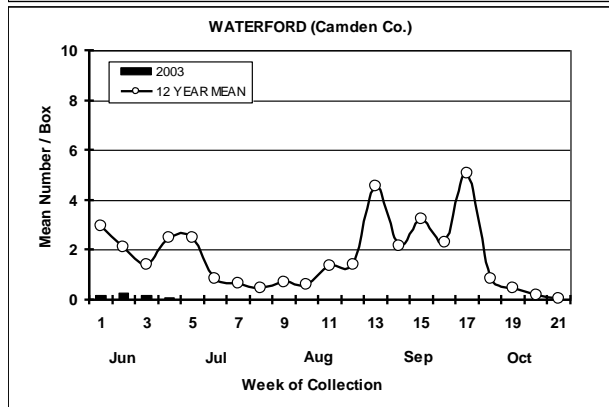
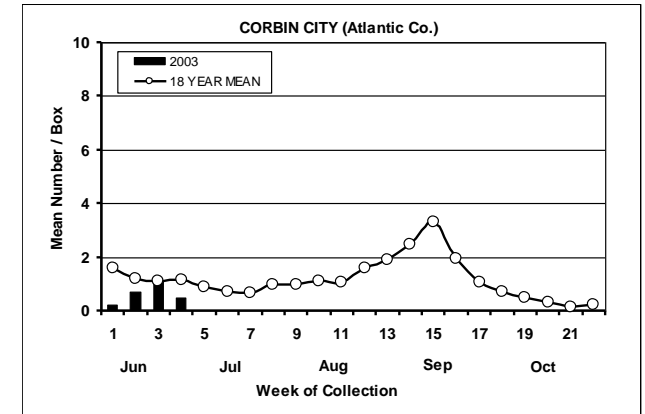
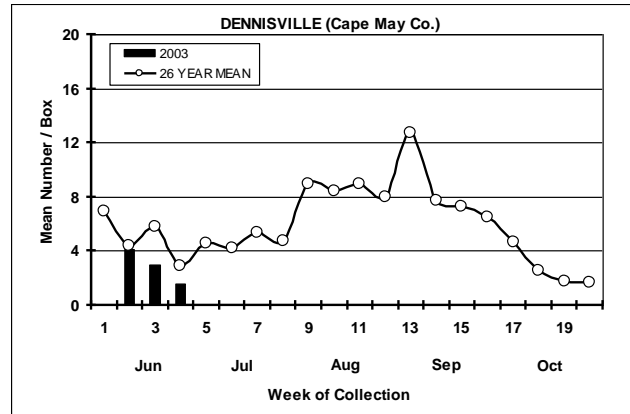
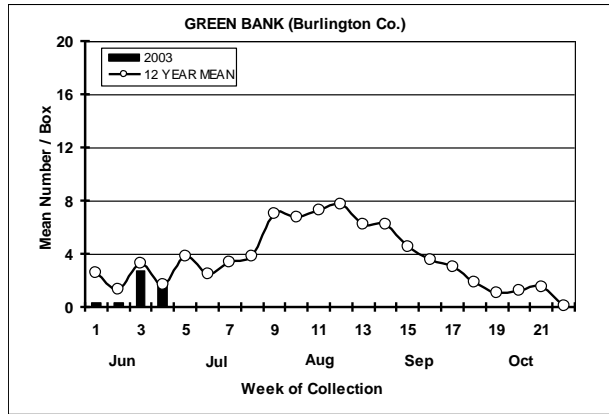
Collections submitted to PHEL for West Nile Virus testing

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	78	211	27	830	77	203	15	62	33	107	4	430	2,077
Total Specimens	1,469	5,169	362	21,668	1,353	5,228	177	183	865	739	15	4,330	41,558
No. Positive Pools													

Remarks: *Culiseta melanura* populations are persisting near average levels at most of the sites we are monitoring. The populations at Centerton show the highest numbers with above average levels for the second consecutive week. These are the mosquitoes that are laying eggs for the second generation which usually emerges by early August. Our data suggest that high numbers of *Cs. melanura* from the 2nd generation in August increase the chances of virus amplification in local bird populations. Submissions from mosquito control agencies continue to make up the bulk of specimens being tested for WNV. Floodwater species more than doubled in the past week, a clear indication of the extensive rainfall NJ experienced several weeks ago. More than 40,000 specimens have now been submitted for virus testing with no positives beyond the single pool of *Cx. pipiens* taken from hibernation in January. Past records indicate that positive mosquito pools are relatively rare until later in the season. At this time last year, we had only 2 positive pools, one from *Cx. restuans* collected May 22 and the other from mixed *Culex* collected June 12..

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Culiseta melanura Population Graphs



Mosquito Species Submitted for Testing through June 27, 2003

Species	Pools	Mosquitoes
Ae. albopictus	4	15
Ae. cinereus	10	20
Ae. vexans	77	1353
An. barberi	1	1
An. crucians	1	3
An. punctipennis	55	195
An. quadrimaculatus	33	229
An. walkeri	2	3
Cq. perturbans	11	171
Cs. inornata	1	2
Cs. melanura	91	909
Cx. erraticus	7	78
Cx. mix	830	21668
Cx. pipiens	78	1469
Cx. restuans	211	5169
Cx. salinarius	27	362
Cx. territans	11	51
Oc. abserratus	2	6
Oc. atlanticus	1	1
Oc. aurifer	7	174
Oc. canadensis	203	5228
Oc. cantator	77	1273
Oc. excrucians	8	18
Oc. grossbecki	45	540
Oc. japonicus	107	739
Oc. sollicitans	33	865
Oc. sticticus	30	285
Oc. stimulans	21	224
Oc. taeniorhynchus	1	1
Oc. thibaulti	4	77
Oc. triseriatus	62	183
Oc. trivittatus	15	177
Or. signifera	1	1
Ps. columbiae	3	10
Ps. ferox	7	58
Grand Total	2077	41558

Mosquito Species Submitted by County through June 27, 2003

County	Species	Mosquitoes		
		Pools	Positives	
Atlantic		138	4867	0
	Ae. vexans	4	145	
	Cq. perturbans	1	50	
	Cs. melanura	16	186	
	Cx. mix	51	2097	
	Cx. restuans	1	44	
	Cx. territans	1	6	
	Oc. canadensis	24	1041	
	Oc. cantator	21	821	
	Oc. grossbecki	4	59	
	Oc. sollicitans	6	246	
	Oc. sticticus	4	74	
	Oc. triseriatus	1	21	
	Oc. thibaulti	4	77	
Bergen		157	5728	0
	Ae. vexans	5	250	
	An. punctipennis	1	2	
	An. quadrimaculatus	4	4	
	Cx. mix	100	4562	
	Cx. pipiens	5	96	
	Cx. restuans	3	12	
	Cx. salinarius	6	300	
	Oc. canadensis	3	107	
	Oc. grossbecki	1	19	
	Oc. japonicus	20	344	
	Oc. sticticus	1	15	
	Oc. triseriatus	8	17	
Burlington		123	1249	0
	Ae. cinereus	4	4	
	Ae. vexans	7	20	
	An. punctipennis	5	10	
	Cs. melanura	19	163	
	Cx. mix	41	656	
	Cx. restuans	2	2	
	Cx. salinarius	4	8	
	Oc. canadensis	19	247	
	Oc. cantator	4	27	
	Oc. grossbecki	7	22	
	Oc. japonicus	1	4	
	Oc. sollicitans	4	70	
	Oc. sticticus	2	2	
	Oc. stimulans	2	10	
	Oc. triseriatus	1	1	
	An. crucians	1	3	

Camden	33	217	0
Ae. vexans	2	4	
An. punctipennis	3	7	
Cs. melanura	10	35	
Cx. mix	7	125	
Cx. restuans	4	26	
Cx. territans	1	1	
Oc. canadensis	1	4	
Oc. grossbecki	2	6	
Oc. sollicitans	1	1	
Oc. triseriatus	2	8	
Cape May	127	2703	0
An. punctipennis	2	7	
An. quadrimaculatus	4	157	
Cs. melanura	8	194	
Cx. mix	81	1179	
Cx. restuans	5	218	
Cx. territans	2	21	
Oc. canadensis	15	599	
Oc. cantator	5	107	
Oc. grossbecki	5	221	
Cumberland	44	271	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	11	50	
Oc. cantator	1	2	
Oc. grossbecki	5	8	
Oc. sticticus	4	41	
Oc. triseriatus	1	1	
Ps. ferox	3	17	
Oc. atlanticus	1	1	
Essex	40	623	0
Ae. vexans	11	335	
Cx. mix	6	50	
Oc. canadensis	3	19	
Oc. sticticus	13	140	
Oc. stimulans	4	8	
Oc. trivittatus	2	40	
Ps. ferox	1	31	
Gloucester	87	2376	0
Ae. albopictus	2	2	
Ae. vexans	3	25	
An. punctipennis	2	2	
Cx. mix	72	2332	
Oc. excrucians	2	3	
Oc. japonicus	4	7	

	Oc. triseriatus	2	5	
Hunterdon		55	2176	0
	Ae. vexans	1	4	
	Cx. mix	47	2159	
	Oc. japonicus	2	4	
	Oc. triseriatus	5	9	
Mercer		249	5203	0
	Ae. cinereus	2	4	
	Ae. vexans	11	278	
	An. punctipennis	11	51	
	An. quadrimaculatus	2	2	
	Cq. perturbans	4	111	
	Cs. melanura	2	2	
	Cx. mix	11	262	
	Cx. pipiens	16	100	
	Cx. restuans	112	3038	
	Cx. salinarius	7	31	
	Cx. territans	2	5	
	Oc. canadensis	39	1100	
	Oc. excrucians	3	7	
	Oc. grossbecki	13	181	
	Oc. japonicus	11	22	
	Oc. triseriatus	1	2	
	Oc. trivittatus	1	5	
	Ps. columbiae	1	2	
Middlesex		61	744	0
	Ae. vexans	6	59	
	Cq. perturbans	1	1	
	Cx. mix	44	625	
	Oc. canadensis	2	19	
	Oc. cantator	2	18	
	Oc. excrucians	1	2	
	Oc. grossbecki	1	1	
	Oc. sollicitans	2	11	
	Ps. columbiae	2	8	
Monmouth		237	2879	1
	Ae. vexans	7	91	
	An. punctipennis	3	9	
	An. quadrimaculatus	3	5	
	Cq. perturbans	2	6	
	Cs. melanura	10	13	
	Cx. mix	103	1111	
	Cx. pipiens	25	774	overwintering
	Cx. restuans	12	177	
	Cx. salinarius	2	12	
	Oc. abserratus	2	6	
	Oc. canadensis	19	265	
	Oc. cantator	15	31	
	Oc. excrucians	1	3	
	Oc. japonicus	12	32	
	Oc. sollicitans	13	331	

	Oc. triseriatus	3	7	
	Oc. trivittatus	3	4	
	An. barberi	1	1	
	Oc. taeniorhynchus	1	1	
Morris		58	979	0
	Ae. cinereus	1	1	
	Ae. vexans	2	3	
	An. punctipennis	2	7	
	An. quadrimaculatus	1	1	
	An. walkeri	1	2	
	Cx. mix	15	562	
	Cx. pipiens	5	126	
	Cx. restuans	6	160	
	Oc. aurifer	2	18	
	Oc. canadensis	3	53	
	Oc. grossbecki	1	1	
	Oc. japonicus	8	16	
	Oc. sticticus	1	1	
	Oc. stimulans	1	2	
	Oc. triseriatus	9	26	
Ocean		116	1976	0
	Ae. vexans	4	53	
	Cq. perturbans	1	1	
	Cs. inornata	1	2	
	Cs. melanura	7	50	
	Cx. mix	33	754	
	Cx. restuans	18	512	
	Cx. salinarius	2	3	
	Cx. territans	3	5	
	Oc. canadensis	15	182	
	Oc. cantator	13	167	
	Oc. grossbecki	1	1	
	Oc. japonicus	4	6	
	Oc. sollicitans	7	206	
	Oc. triseriatus	5	30	
	Or. signifera	1	1	
	Ps. ferox	1	3	
Passaic		43	862	0
	An. punctipennis	2	5	
	Cx. mix	5	211	
	Cx. pipiens	6	33	
	Cx. restuans	16	558	
	Cx. salinarius	1	1	
	Oc. canadensis	2	20	
	Oc. japonicus	7	25	
	Oc. sticticus	3	8	
	Oc. triseriatus	1	1	
Salem		153	1965	0
	Ae. albopictus	2	13	
	Ae. vexans	4	6	
	An. punctipennis	3	4	

An. quadrimaculatus	7	35	
Cq. perturbans	1	1	
Cs. melanura	16	261	
Cx. erraticus	7	78	
Cx. mix	53	601	
Cx. pipiens	15	319	
Cx. restuans	7	86	
Cx. salinarius	1	1	
Oc. canadensis	18	454	
Oc. cantator	12	83	
Oc. grossbecki	5	21	
Oc. triseriatus	1	1	
Ps. ferox	1	1	
Somerset	68	1123	0
An. punctipennis	1	1	
An. quadrimaculatus	2	2	
Cx. mix	41	982	
Cx. pipiens	1	1	
Cx. restuans	3	3	
Oc. japonicus	10	40	
Oc. triseriatus	5	7	
Oc. trivittatus	4	81	
Ps. ferox	1	6	
Sussex	126	2069	0
Ae. cinereus	2	10	
Ae. vexans	1	9	
An. punctipennis	11	71	
An. quadrimaculatus	4	17	
Cq. perturbans	1	1	
Cx. mix	51	1263	
Cx. pipiens	1	1	
Cx. restuans	3	3	
Cx. territans	1	12	
Oc. aurifer	1	50	
Oc. canadensis	6	144	
Oc. excrucians	1	3	
Oc. japonicus	19	229	
Oc. stimulans	10	174	
Oc. triseriatus	13	42	
Oc. trivittatus	1	40	
Union	46	1126	0
Ae. vexans	2	7	
Cx. pipiens	4	19	
Cx. restuans	9	172	
Cx. salinarius	4	6	
Oc. canadensis	20	909	
Oc. japonicus	2	2	
Oc. sticticus	2	4	
Oc. triseriatus	1	2	
Oc. trivittatus	2	5	

Warren	116	2422	0
Ae. cinereus	1	1	
Ae. vexans	5	62	
An. punctipennis	8	18	
An. quadrimaculatus	6	6	
An. walkeri	1	1	
Cx. mix	64	2131	
Cx. restuans	4	22	
Oc. aurifer	4	106	
Oc. canadensis	3	15	
Oc. cantator	4	17	
Oc. japonicus	7	8	
Oc. stimulans	4	30	
Oc. triseriatus	3	3	
Oc. trivittatus	2	2	
Grand Total	2077	41558	1