

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 3

Culiseta melanura Monitor June 14-18, 2004

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.)	3.2	2.9	356	15	0	Waterford (Camden Co.)	1.3	3.5	792	21	0
Corbin City (Atlantic Co.)	1.1	4.1	192	11	0	Centerton (Salem Co.)	1.9	2.1	497	17	0
Dennisville (Cape May Co.)	5.7	4.8	839	23	0	Turkey Swamp (Monmouth Co.)	0.2	1.9	123	11	0

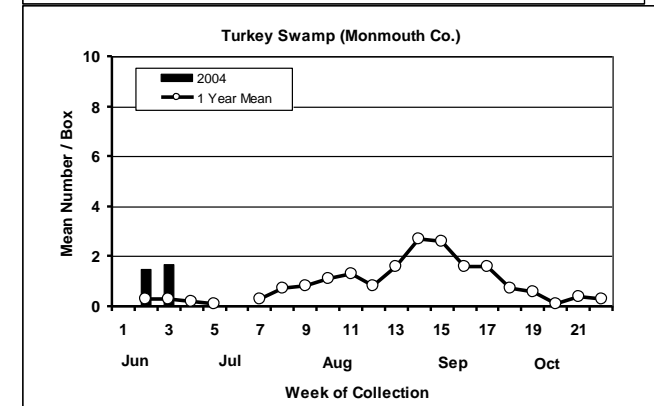
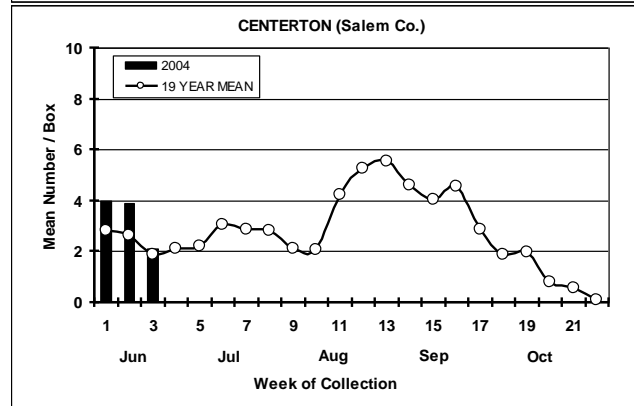
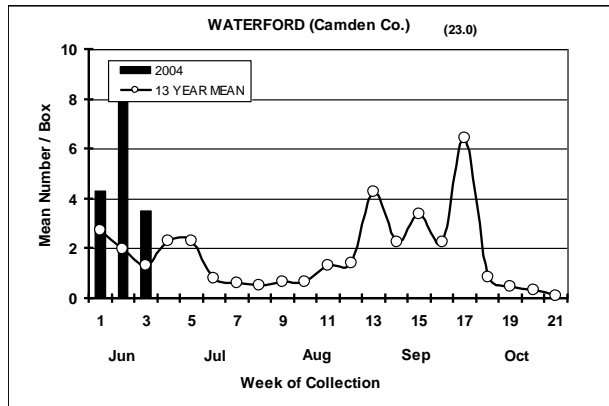
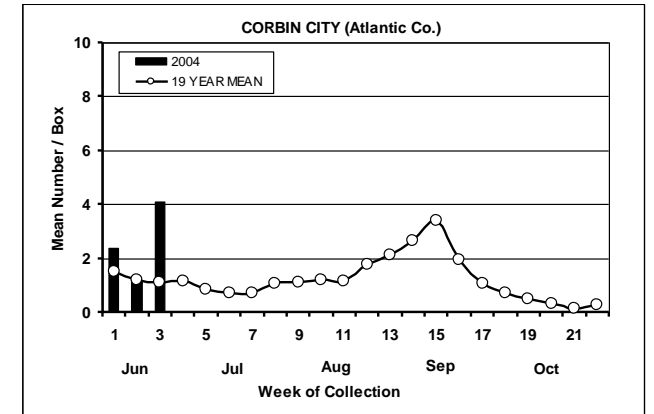
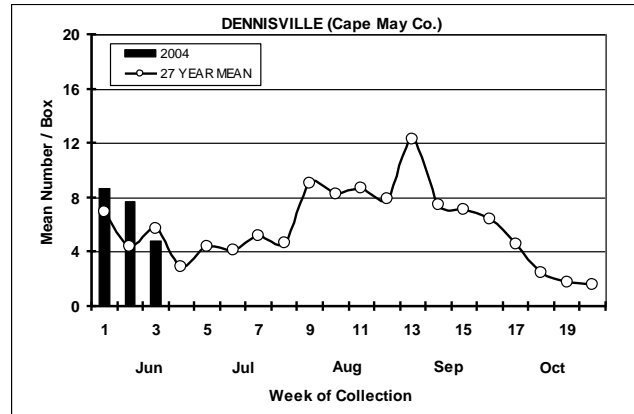
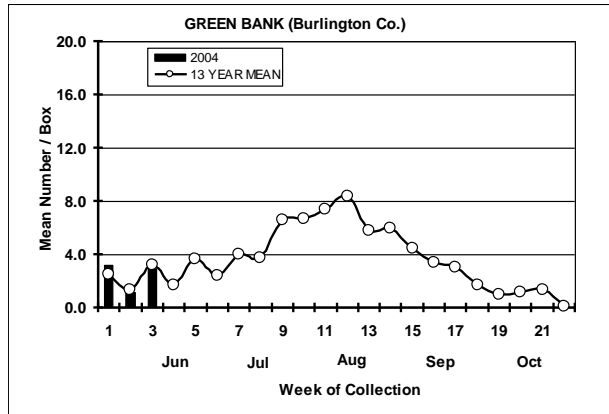
Collections submitted to PHEL for West Nile Virus testing

Species	<i>Cx. pip</i>	<i>Cx. rest</i>	<i>Cx. sal</i>	<i>Cx. spp.</i>	<i>Cs. mel</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	23	32	9	62	121	26	28	4	5	1	26	3	65	405
Total Specimens	341	539	67	2,027	3,369	593	635	9	28	1	88	10	1,434	9,141
No. Positive Pools	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: *Culiseta melanura* populations remain high at most study sites suggesting that the potential for amplification of EEE is increasing in southern New Jersey. Green Bank, Dennisville and Centerton are returning to normal levels for this time of year but resting box collections at Waterford, Corbin City and Turkey Swamp are well above average at the present time. Population surges in June, such as those seen at Corbin City in Week 1 and Waterford in Week 2, usually indicate that a local emergence has taken place from larvae that overwintered in early instars. An influx of nullipars this late in the season favors amplification of virus by putting large biting populations in contact with the juvenile birds that are fledging in fairly high numbers throughout the state. Slightly more than 9,000 mosquito specimens have been tested for WNV from 14 of New Jersey's 21 counties to date. No positives have been detected from any of the submissions this season.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through June 18, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	3	10	
Aedes cinereus	2	38	
Aedes vexans	26	593	
Anopheles bradleyi	1	2	
Anopheles punctipennis	13	140	
Anopheles quadrimaculatus	7	252	
Coquillettidia perturbans	8	72	
Culex pipiens	23	341	
Culex restuans	32	539	
Culex salinarius	9	67	
Culex spp.	62	2027	
Culex territans	3	17	
Culiseta melanura	121	3369	
Ochlerotatus abserratus	1	9	
Ochlerotatus canadensis	28	635	
Ochlerotatus cantator	21	838	
Ochlerotatus excrucians	1	1	
Ochlerotatus grossbecki	3	11	
Ochlerotatus japonicus	26	88	
Ochlerotatus sollicitans	1	1	
Ochlerotatus sticticus	3	49	
Ochlerotatus stimulans	1	4	
Ochlerotatus triseriatus	5	28	
Ochlerotatus trivittatus	4	9	
Psorophora ferox	1	1	
Grand Total	405	9141	0

Submissions by County through June 18, 2004

County	Species	Pools	Mosquitoes	Positives
Atlantic		105	3047	0
	Aedes albopictus	1	6	
	Aedes cinereus	1	35	
	Aedes vexans	10	303	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	2	5	
	Coquillettidia perturbans	1	2	
	Culex pipiens	2	5	
	Culex restuans	6	113	
	Culex salinarius	2	32	
	Culex spp.	18	734	
	Culiseta melanura	25	685	
	Ochlerotatus canadensis	14	322	
	Ochlerotatus cantator	18	777	
	Ochlerotatus japonicus	2	4	
	Ochlerotatus triseriatus	1	21	
	Ochlerotatus trivittatus	1	1	
Burlington		29	428	0
	Aedes cinereus	1	3	
	Aedes vexans	1	13	
	Culex spp.	4	10	
	Culiseta melanura	16	361	
	Ochlerotatus abserratus	1	9	
	Ochlerotatus canadensis	1	14	
	Ochlerotatus grossbecki	1	6	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus sticticus	1	6	
	Ochlerotatus stimulans	1	4	
	Ochlerotatus trivittatus	1	1	
Camden		24	811	0
	Anopheles punctipennis	2	18	
	Anopheles quadrimaculatus	1	1	
	Culiseta melanura	21	792	
Cape May		35	1123	0
	Anopheles punctipennis	1	2	
	Anopheles quadrimaculatus	5	250	
	Culex restuans	1	8	
	Culex salinarius	1	5	
	Culex territans	2	15	
	Culiseta melanura	23	839	
	Ochlerotatus cantator	1	3	
	Ochlerotatus sollicitans	1	1	

Cumberland	16	47	0
Aedes vexans	2	4	
Culex pipiens	3	13	
Culex restuans	3	13	
Culex salinarius	2	4	
Culex salinarius	1	2	
Culiseta melanura	1	2	
Ochlerotatus canadensis	1	4	
Ochlerotatus japonicus	3	5	
Gloucester	15	394	0
Aedes vexans	2	7	
Culex pipiens	5	224	
Culex restuans	1	37	
Culex salinarius	1	20	
Culex spp.	2	100	
Ochlerotatus japonicus	2	4	
Ochlerotatus triseriatus	1	1	
Psorophora ferox	1	1	
Hunterdon	10	452	0
Culex spp.	9	450	
Ochlerotatus japonicus	1	2	
Mercer	45	701	0
Aedes albopictus	2	4	
Aedes vexans	3	116	
Anopheles punctipennis	3	44	
Coquillettidia perturbans	1	7	
Culex pipiens	9	76	
Culex restuans	10	172	
Culex salinarius	1	2	
Culex spp.	1	12	
Ochlerotatus canadensis	4	203	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	5	12	
Ochlerotatus sticticus	1	40	
Ochlerotatus triseriatus	2	5	
Ochlerotatus trivittatus	2	7	
Monmouth	39	389	0
Aedes vexans	3	58	
Anopheles punctipennis	1	8	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	1	2	
Culex pipiens	2	17	

	Culex restuans	4	73	
	Culex salinarius	1	2	
	Culex spp.	3	30	
	Culiseta melanura	13	125	
	Ochlerotatus canadensis	3	57	
	Ochlerotatus cantator	1	8	
	Ochlerotatus japonicus	4	4	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus triseriatus	1	1	
Ocean		22	316	0
	Aedes vexans	3	87	
	Anopheles punctipennis	2	33	
	Coquillettidia perturbans	2	48	
	Culex pipiens	2	6	
	Culex restuans	2	34	
	Culex territans	1	2	
	Culiseta melanura	4	66	
	Ochlerotatus canadensis	2	24	
	Ochlerotatus grossbecki	2	5	
	Ochlerotatus japonicus	2	11	
Salem		17	497	0
	Culiseta melanura	17	497	
Somerset		10	119	0
	Coquillettidia perturbans	1	3	
	Culex restuans	3	69	
	Culex spp.	5	41	
	Ochlerotatus canadensis	1	6	
Sussex		12	94	0
	Aedes vexans	1	2	
	Anopheles punctipennis	2	30	
	Coquillettidia perturbans	2	10	
	Culex restuans	2	20	
	Culiseta melanura	1	2	
	Ochlerotatus canadensis	2	5	
	Ochlerotatus japonicus	2	25	
Warren		26	723	0
	Aedes vexans	1	3	
	Culex spp.	20	650	
	Ochlerotatus cantator	1	50	
	Ochlerotatus japonicus	4	20	
Grand Total		405	9141	0

