

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 8

Culiseta melanura Monitor

July 22 - 28, 2006

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	0.2	253	27	0	Waterford (Camden Co.)	0.5	<0.1	15	11	0
Corbin City (Atlantic Co.)	1.0	1.0	170	29	0	Centerton (Salem Co.)	2.7	1.0	229	24	0
Dennisville (Cape May Co.)	4.5	3.6	1130	40	0	Turkey Swamp (Monmouth Co.)	2.2	0.7	150	28	0

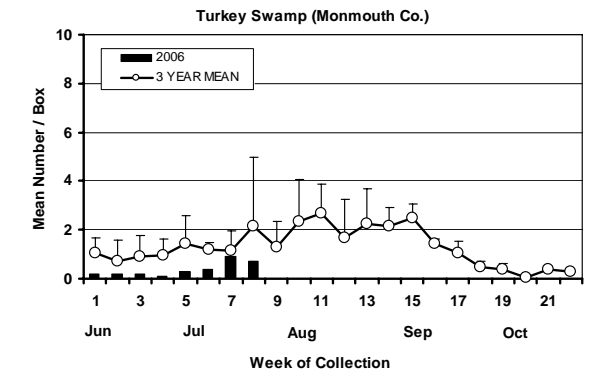
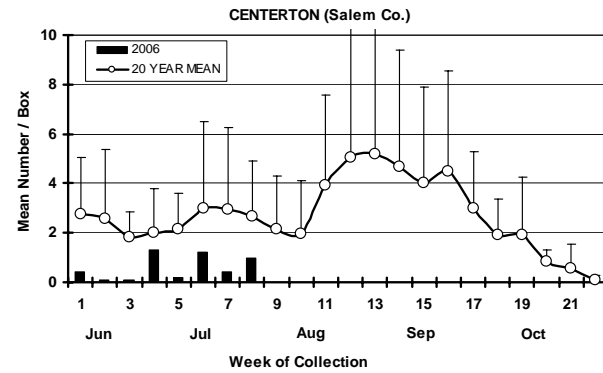
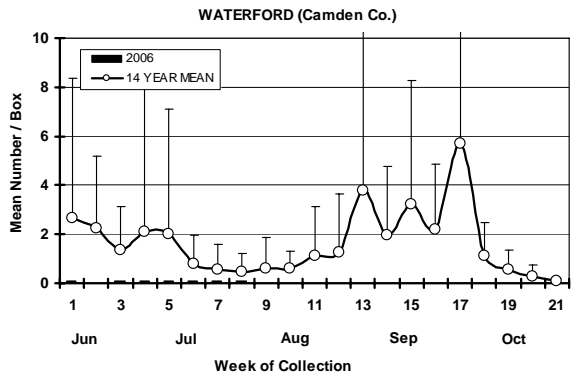
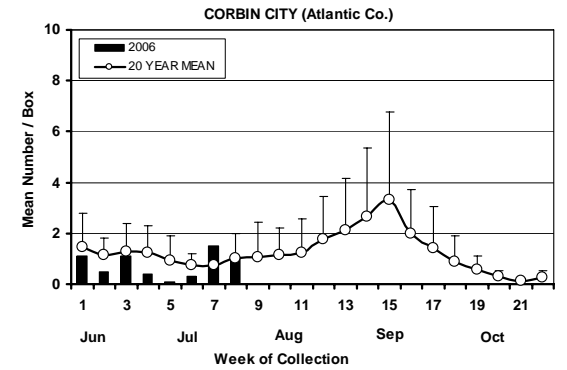
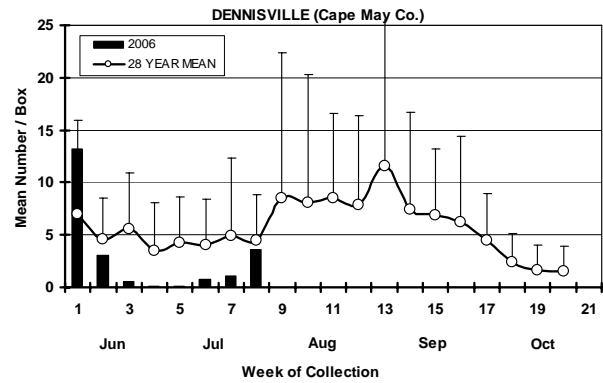
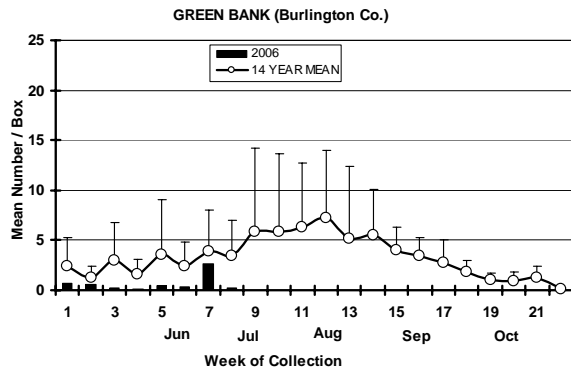
Collections submitted to PHEL for West Nile Virus testing

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	57	28	15	520	160	36	4	24	25	9	73	47	131	1,129
Total Specimens	897	315	76	22,730	1,951	565	25	819	56	191	389	400	2,436	30,850
No. Positive Pools	0	0	0	6	0	0	0	0	0	0	0	0	0	6

Remarks: Resting box collections point toward a continuing, but minor, influx of nulliparous *Cs. melanura* over the past week. Long term averages suggest that the populations will continue to increase through the month of August. From what we know of the biology of this species, the mid-summer increase represents fresh adults produced by eggs that were laid earlier this spring by adults that emerged from overwintering larvae. The current cohort of adults is capable of amplifying EEE if low level virus is present in local bird populations. Conditions over the next week or two will dictate whether or not EEE amplification takes place this year. Low level WNV amplification is currently taking place with positive pools from 4 different counties (Burlington 1, Hudson 3, Middlesex 1 & Monmouth 1). All of the positive pools have come from pools of mixed *Culex* mosquitoes. There has been no indication of transfer to bridge vectors, to date, despite high populations of floodwater mosquitoes in most areas.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-08-06 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University
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Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through July 28, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	47	400	
<i>Aedes vexans</i>	36	565	
<i>Anopheles bradleyi</i>	5	52	
<i>Anopheles punctipennis</i>	25	105	
<i>Anopheles quadrimaculatus</i>	27	1219	
<i>Anopheles walkeri</i>	1	11	
<i>Coquillettidia perturbans</i>	14	98	
<i>Culex erraticus</i>	15	509	
<i>Culex pipiens</i>	57	897	
<i>Culex restuans</i>	28	315	
<i>Culex salinarius</i>	15	76	
<i>Culex spp.</i>	520	22730	6
<i>Culex territans</i>	4	10	
<i>Culiseta melanura</i>	160	1951	
<i>Ochlerotatus atlanticus</i>	3	4	
<i>Ochlerotatus canadensis</i>	4	25	
<i>Ochlerotatus cantator</i>	5	15	
<i>Ochlerotatus japonicus</i>	73	389	
<i>Ochlerotatus sollicitans</i>	9	191	
<i>Ochlerotatus sticticus</i>	5	102	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	2	34	
<i>Ochlerotatus triseriatus</i>	25	56	
<i>Ochlerotatus trivittatus</i>	24	819	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora columbiae</i>	6	34	
<i>Psorophora ferox</i>	14	236	
<i>Uranotaenia sapphirina</i>	1	1	
Grand Total	1129	30850	6

Submission by County through July 28, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		77	2080	0
	Aedes albopictus	2	34	
	Aedes vexans	4	95	
	Anopheles punctipennis	1	1	
	Culex erraticus	10	500	
	Culex restuans	1	7	
	Culex spp.	27	1260	
	Culiseta melanura	29	170	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	11	
	Ochlerotatus triseriatus	1	1	
Bergen		60	4428	0
	Culex spp.	59	4425	
	Orthopodomyia signifera	1	3	
Burlington		64	496	1
	Aedes albopictus	9	61	
	Aedes vexans	2	23	
	Anopheles punctipennis	1	2	
	Coquillettidia perturbans	2	5	
	Culex pipiens	1	2	
	Culex spp.	8	90	1
	Culex territans	1	3	
	Culiseta melanura	28	255	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus canadensis	2	23	
	Ochlerotatus japonicus	4	25	
	Ochlerotatus stimulans	2	2	
	Ochlerotatus triseriatus	1	1	
	Psorophora ferox	2	3	
Camden		42	797	0
	Aedes albopictus	5	34	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	2	5	
	Coquillettidia perturbans	1	1	
	Culex spp.	17	726	
	Culiseta melanura	11	15	
	Ochlerotatus japonicus	2	5	
	Ochlerotatus triseriatus	1	5	
Cape May		54	1822	0
	Anopheles bradleyi	2	10	
	Anopheles punctipennis	1	2	

Anopheles quadrimaculatus	12	820	
Culex pipiens	1	6	
Culex restuans	1	24	
Culex salinarius	2	10	
Culiseta melanura	34	949	
Ochlerotatus cantator	1	1	
Cape_May	19	610	0
Anopheles bradleyi	2	41	
Anopheles quadrimaculatus	6	374	
Culex erraticus	1	1	
Culex restuans	1	1	
Culex salinarius	1	9	
Culiseta melanura	5	181	
Ochlerotatus atlanticus	1	1	
Ochlerotatus cantator	1	1	
Psorophora ferox	1	1	
Essex	48	904	0
Aedes albopictus	4	10	
Aedes vexans	7	69	
Anopheles punctipennis	1	1	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	1	4	
Culex spp.	19	640	
Ochlerotatus japonicus	4	15	
Ochlerotatus sollicitans	1	1	
Ochlerotatus sticticus	2	17	
Ochlerotatus triseriatus	2	2	
Ochlerotatus trivittatus	1	3	
Psorophora ferox	5	141	
Gloucester	60	779	0
Aedes albopictus	2	2	
Coquillettidia perturbans	3	13	
Culex pipiens	46	752	
Ochlerotatus japonicus	8	11	
Psorophora ferox	1	1	
Hudson	75	3058	3
Culex spp.	75	3058	3
Hunterdon	57	2248	0
Aedes vexans	1	3	
Anopheles punctipennis	3	25	
Anopheles quadrimaculatus	1	2	
Culex erraticus	1	1	

	Culex restuans	1	1	
	Culex salinarius	2	2	
	Culex spp.	44	2200	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus trivittatus	2	12	
	Uranotaenia sapphirina	1	1	
Mercer		47	997	0
	Aedes albopictus	5	74	
	Aedes vexans	1	33	
	Anopheles punctipennis	2	3	
	Culex pipiens	8	136	
	Culex restuans	7	111	
	Culex salinarius	3	13	
	Culex spp.	13	582	
	Ochlerotatus japonicus	2	8	
	Ochlerotatus triseriatus	2	7	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	2	27	
	Psorophora ferox	1	1	
Middlesex		60	2829	1
	Aedes albopictus	2	19	
	Culex spp.	50	2791	1
	Ochlerotatus japonicus	8	19	
Monmouth		111	1130	1
	Aedes albopictus	6	9	
	Aedes vexans	7	27	
	Anopheles punctipennis	2	2	
	Anopheles quadrimaculatus	1	1	
	Culex restuans	1	3	
	Culex spp.	34	615	1
	Culex territans	2	3	
	Culiseta melanura	28	150	
	Ochlerotatus atlanticus	1	2	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	9	77	
	Ochlerotatus sollicitans	8	190	
	Ochlerotatus taeniorhynchus	2	34	
	Ochlerotatus triseriatus	5	12	
	Ochlerotatus trivittatus	2	2	
	Psorophora ferox	1	1	
Morris		45	797	0
	Anopheles punctipennis	1	1	

	Culex spp.	31	739	
	Ochlerotatus japonicus	8	52	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	4	4	
Ocean		45	547	0
	Aedes albopictus	10	155	
	Aedes vexans	1	3	
	Culex restuans	1	10	
	Culex salinarius	1	2	
	Culex spp.	22	333	
	Culex territans	1	4	
	Ochlerotatus japonicus	4	11	
	Ochlerotatus triseriatus	4	8	
	Psorophora ferox	1	21	
Passaic		28	1134	0
	Culex spp.	26	1084	
	Ochlerotatus japonicus	2	50	
Salem		78	595	0
	Aedes albopictus	1	1	
	Aedes vexans	4	9	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	2	24	
	Anopheles quadrimaculatus	3	15	
	Coquillettidia perturbans	3	4	
	Culex erraticus	3	7	
	Culex pipiens	1	1	
	Culex restuans	15	158	
	Culex salinarius	5	30	
	Culex spp.	9	105	
	Culiseta melanura	25	231	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Psorophora columbiae	4	7	
Somerset		31	1151	0
	Culex spp.	19	918	
	Ochlerotatus japonicus	6	54	
	Ochlerotatus triseriatus	2	12	
	Ochlerotatus trivittatus	2	100	
	Psorophora ferox	2	67	
Sussex		55	1642	0
	Aedes vexans	8	301	
	Anopheles punctipennis	4	25	

	Anopheles walkeri	1	11	
	Coquillettidia perturbans	4	71	
	Culex salinarius	1	10	
	Culex spp.	18	427	
	Ochlerotatus japonicus	3	18	
	Ochlerotatus sticticus	2	84	
	Ochlerotatus triseriatus	1	2	
	Ochlerotatus trivittatus	13	693	
Union		20	542	0
	Aedes albopictus	1	1	
	Anopheles punctipennis	1	1	
	Culex spp.	15	533	
	Ochlerotatus japonicus	3	7	
Warren		53	2264	0
	Aedes vexans	1	2	
	Anopheles punctipennis	3	12	
	Anopheles quadrimaculatus	1	1	
	Culex spp.	34	2204	
	Ochlerotatus japonicus	9	36	
	Ochlerotatus triseriatus	2	2	
	Ochlerotatus trivittatus	3	7	
Grand Total		1129	30850	6