

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 9

Culiseta melanura Monitor

July 29 – August 4, 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.)	5.8	0.8	291	30	0	Waterford (Camden Co.)	0.6	0	15	11	0
Corbin City (Atlantic Co.)	1.1	2.9	243	33	0	Centerton (Salem Co.)	2.2	0.5	253	28	0
Dennisville (Cape May Co.)	8.5	1.1	1185	44	0	Turkey Swamp (Monmouth Co.)	1.3	1.6	231	32	0

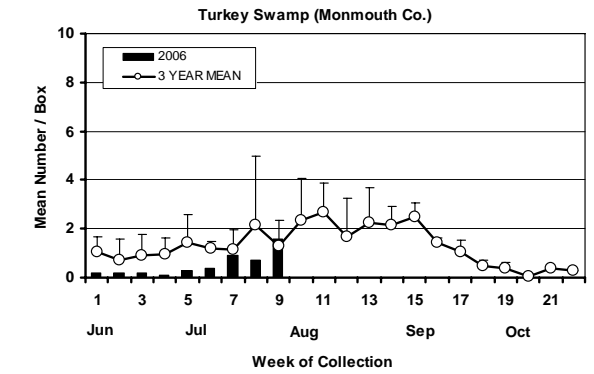
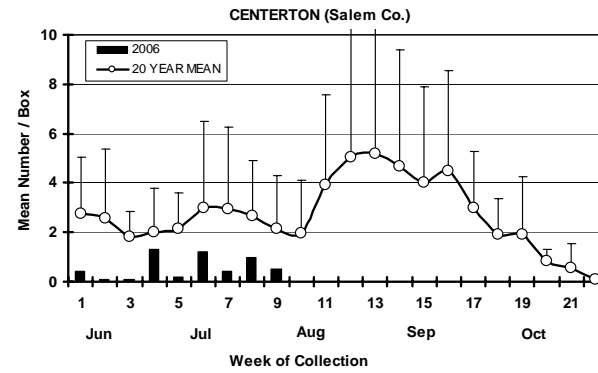
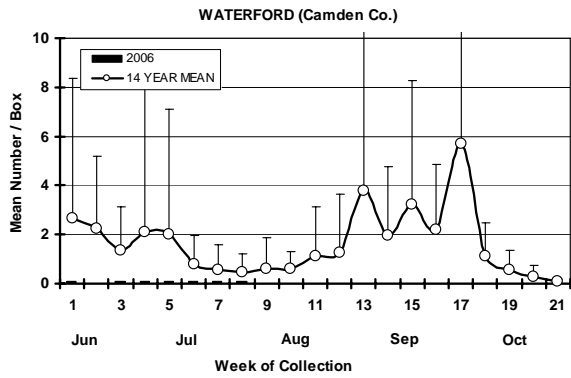
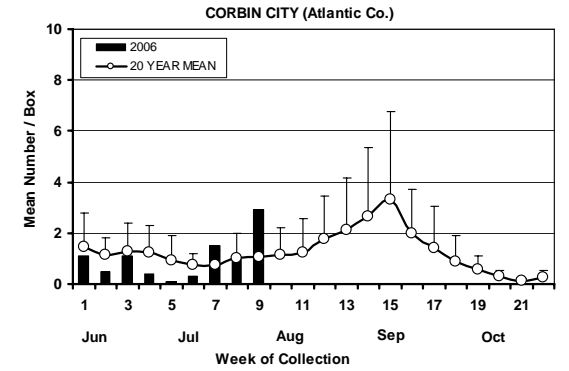
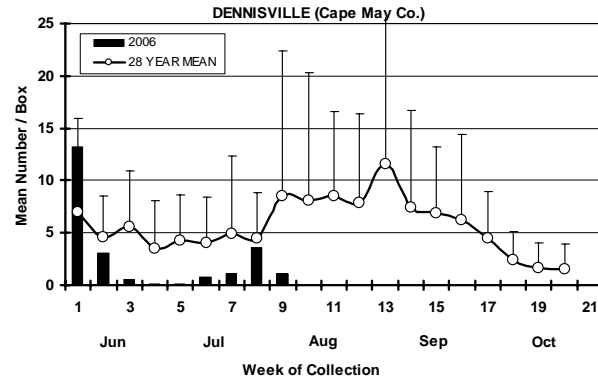
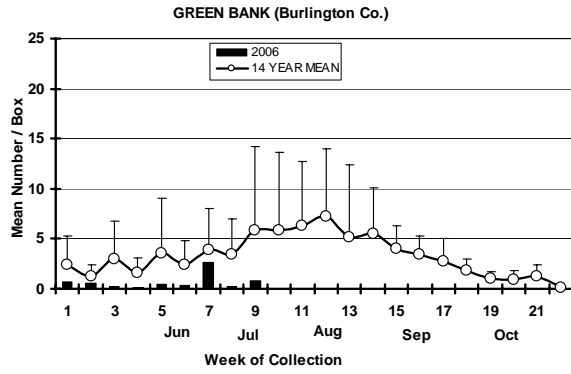
Collections submitted to PHEL for West Nile Virus testing

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	77	41	25	670	179	47	7	28	39	11	92	62	173	1,451
Total Specimens	1,331	576	169	29,599	2,222	880	172	867	103	257	476	571	3,234	40,457
No. Positive Pools	2	1	0	15	0	0	0	0	0	0	0	0	0	18

Remarks: Resting box collections indicate that nulliparous *Cs. melanura* are beginning to appear at the Corbin City and Turkey Swamp study sites. Populations at the other collection sites have been static suggesting that fresh specimens have not yet appeared at detectable levels. Large numbers of newly emerged *Cs. melanura* at this time of year favor amplification of EEE in local birds. Although there is still time for virus amplification to occur among birds and mosquitoes, the longer it takes for this cohort to appear, the lesser the chances for a major epizootic event. Amplification of WNV has become more intense in recent weeks with 7 counties now reporting positives. All of the positive pools, however, have come from *Culex* mosquitoes. Surveillance data from previous years indicate that August is the month when infection rates increase markedly, setting the stage for transfer of virus to bridge vectors.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through August 4, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	62	571	
<i>Aedes vexans</i>	47	880	
<i>Anopheles bradleyi</i>	8	102	
<i>Anopheles punctipennis</i>	30	119	
<i>Anopheles quadrimaculatus</i>	38	1627	
<i>Anopheles walkeri</i>	1	11	
<i>Coquillettidia perturbans</i>	19	106	
<i>Culex erraticus</i>	18	524	
<i>Culex pipiens</i>	77	1331	2
<i>Culex restuans</i>	41	576	1
<i>Culex salinarius</i>	25	169	
<i>Culex spp.</i>	670	29599	15
<i>Culex territans</i>	7	19	
<i>Culiseta melanura</i>	179	2222	
<i>Ochlerotatus atlanticus</i>	4	5	
<i>Ochlerotatus canadensis</i>	7	172	
<i>Ochlerotatus cantator</i>	5	15	
<i>Ochlerotatus japonicus</i>	92	476	
<i>Ochlerotatus sollicitans</i>	11	257	
<i>Ochlerotatus sticticus</i>	6	105	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	2	34	
<i>Ochlerotatus triseriatus</i>	39	103	
<i>Ochlerotatus trivittatus</i>	28	867	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora columbiae</i>	10	97	
<i>Psorophora ferox</i>	15	237	
<i>Uranotaenia sapphirina</i>	6	227	
Grand Total	1,451	40,457	18

Submission by County through August4, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		98	2813	0
	Aedes albopictus	3	79	
	Aedes vexans	9	305	
	Anopheles punctipennis	1	1	
	Culex erraticus	10	500	
	Culex restuans	2	8	
	Culex spp.	34	1588	
	Culex territans	1	1	
	Culiseta melanura	33	243	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	11	
	Ochlerotatus sollicitans	1	25	
	Ochlerotatus triseriatus	1	1	
	Psorophora columbiae	1	50	
Bergen		75	5503	3
	Aedes albopictus	1	25	
	Culex spp.	73	5475	3
	Orthopodomyia signifera	1	3	
Burlington		67	534	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	31	293	
	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		47	846	0
	Aedes albopictus	6	37	
	Anopheles punctipennis	4	7	
	Anopheles quadrimaculatus	3	6	
	Coquillettidia perturbans	1	1	
	Culex spp.	19	770	
	Culiseta melanura	11	15	
	Ochlerotatus japonicus	2	5	

	Ochlerotatus triseriatus	1	5	
Cape May		85	2916	0
	Anopheles bradleyi	6	99	
	Anopheles punctipennis	1	2	
	Anopheles quadrimaculatus	23	1569	
	Culex erraticus	1	1	
	Culex pipiens	1	6	
	Culex restuans	2	25	
	Culex salinarius	4	25	
	Culiseta melanura	43	1185	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	2	2	
	Psorophora ferox	1	1	
Cumberland		4	10	0
	Culex spp.	3	9	
	Ochlerotatus triseriatus	1	1	
Essex		54	948	0
	Aedes albopictus	5	11	
	Aedes vexans	7	69	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	22	676	
	Ochlerotatus japonicus	6	22	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	2	17	
	Ochlerotatus triseriatus	2	2	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	5	141	
Gloucester		75	1001	0
	Aedes albopictus	3	5	
	Coquillettidia perturbans	3	13	
	Culex pipiens	59	970	
	Ochlerotatus japonicus	9	12	
	Psorophora ferox	1	1	
Hudson		90	3778	7
	Culex spp.	90	3778	7
Hunterdon		72	2998	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.	59	2950	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus trivittatus	2	12	
	Uranotaenia sapphirina	1	1	
Mercer		105	2065	3
	Aedes albopictus	9	88	
	Aedes vexans	6	128	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	3	5	
	Anopheles quadrimaculatus	1	5	
	Coquillettidia perturbans	2	3	
	Culex erraticus	1	4	
	Culex pipiens	15	352	2
	Culex restuans	15	333	1
	Culex salinarius	8	74	
	Culex spp.	18	831	
	Culex territans	1	1	
	Ochlerotatus canadensis	3	147	
	Ochlerotatus japonicus	6	14	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus triseriatus	4	12	
	Ochlerotatus trivittatus	4	21	
	Psorophora columbiae	5	40	
	Psorophora ferox	2	2	
Middlesex		80	3965	2
	Aedes albopictus	4	33	
	Culex spp.	68	3913	2
	Ochlerotatus japonicus	8	19	
Monmouth		134	1530	1
	Aedes albopictus	7	10	
	Aedes vexans	7	27	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	2	2	
	Culex restuans	2	6	
	Culex spp.	43	861	1
	Culex territans	3	10	
	Culiseta melanura	32	231	
	Ochlerotatus atlanticus	1	2	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	12	92	

	Ochlerotatus sollicitans	9	231	
	Ochlerotatus taeniorhynchus	2	34	
	Ochlerotatus triseriatus	6	13	
	Ochlerotatus trivittatus	2	2	
	Psorophora ferox	1	1	
Morris		60	965	0
	Anopheles punctipennis	1	1	
	Culex spp.	40	874	
	Ochlerotatus japonicus	11	80	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	7	9	
Ocean		60	704	0
	Aedes albopictus	13	220	
	Aedes vexans	1	3	
	Culex restuans	2	11	
	Culex salinarius	5	28	
	Culex spp.	27	385	
	Culex territans	1	4	
	Ochlerotatus japonicus	4	11	
	Ochlerotatus triseriatus	6	21	
	Psorophora ferox	1	21	
Passaic		40	1658	0
	Culex spp.	38	1608	
	Ochlerotatus japonicus	2	50	
Salem		99	800	1
	Aedes albopictus	1	1	
	Aedes vexans	5	19	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	3	28	
	Anopheles quadrimaculatus	5	35	
	Coquillettidia perturbans	5	8	
	Culex erraticus	5	18	
	Culex pipiens	1	1	
	Culex restuans	15	158	
	Culex salinarius	5	30	
	Culex spp.	17	236	1
	Culiseta melanura	29	255	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Psorophora columbiae	4	7	
Somerset		46	1660	0

	Culex spp.	28	1364	
	Ochlerotatus japonicus	8	68	
	Ochlerotatus triseriatus	5	32	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
Sussex		72	2353	0
	Aedes vexans	8	301	
	Anopheles punctipennis	5	28	
	Anopheles quadrimaculatus	1	6	
	Anopheles walkeri	1	11	
	Coquillettidia perturbans	5	72	
	Culex restuans	2	34	
	Culex salinarius	1	10	
	Culex spp.	24	867	
	Ochlerotatus japonicus	4	19	
	Ochlerotatus sticticus	2	84	
	Ochlerotatus triseriatus	2	3	
	Ochlerotatus trivittatus	13	693	
	Uranotaenia sapphirina	4	225	
Union		20	542	0
	Aedes albopictus	1	1	
	Anopheles punctipennis	1	1	
	Culex spp.	15	533	
	Ochlerotatus japonicus	3	7	
Warren		68	2868	0
	Aedes vexans	1	2	
	Anopheles punctipennis	3	12	
	Anopheles quadrimaculatus	1	1	
	Culex spp.	44	2791	
	Ochlerotatus japonicus	12	51	
	Ochlerotatus triseriatus	3	3	
	Ochlerotatus trivittatus	3	7	
	Uranotaenia sapphirina	1	1	
Grand Total		1451	40457	18