

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 10

Culiseta melanura Monitor

August 5 - 11, 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.)	5.9	<0.1	292	31	0	Waterford (Camden Co.)	0.6	0.1	18	12	0
Corbin City (Atlantic Co.)	1.1	2.1	295	37	0	Centerton (Salem Co.)	2.0	0.7	290	32	0
Dennisville (Cape May Co.)	8.1	4.5	1407	50	0	Turkey Swamp (Monmouth Co.)	2.4	0.7	266	35	0

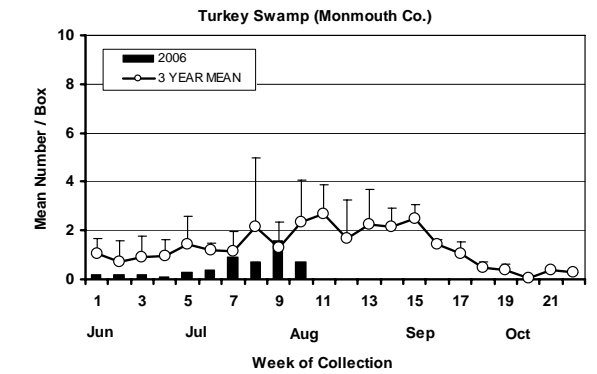
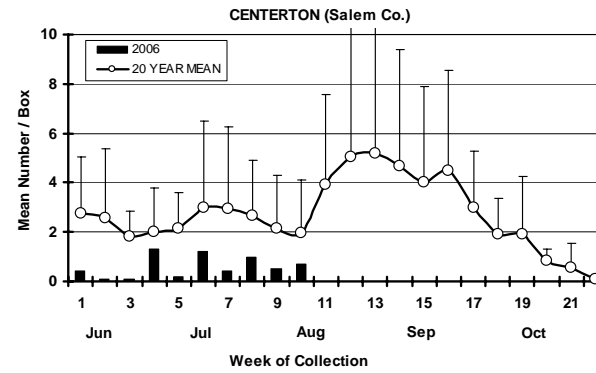
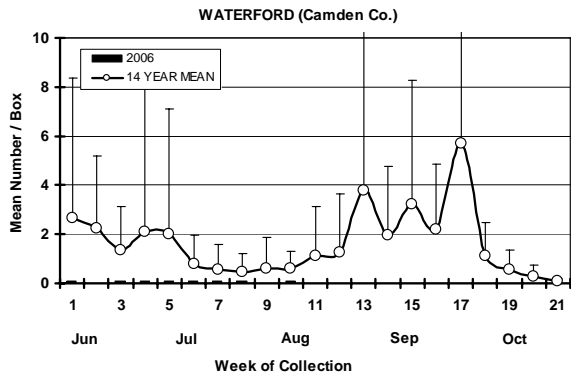
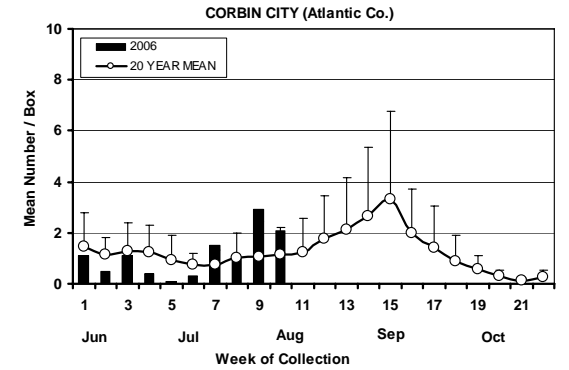
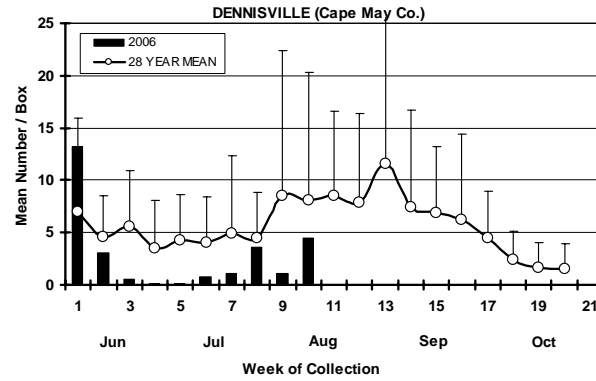
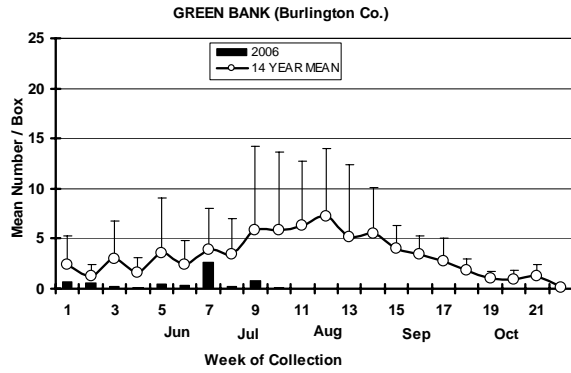
Collections submitted to PHEL for West Nile Virus testing

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	120	62	50	838	200	64	9	34	56	12	125	92	242	1,904
Total Specimens	2,401	949	1,229	37,552	2,587	1,218	230	920	199	258	642	886	4,179	53,250
No. Positive Pools	5	2	0	46	0	0	0	0	0	0	0	0	0	53
MFIR	2.08	2.10	-	1.23	-	-	-	-	-	-	-	-	-	1.00

Remarks: *Culiseta melanura* numbers remain well below the long term mean at all but the Cobin City site where populations have been increasing since mid-July. The absence of large numbers of nulliparous specimens in local populations lessens the chances of virus amplification in local bird populations. There has been no evidence of virus in any of the specimens tested to date, suggesting that bird to bird transmission of EEE remains below detectable levels at this critical period in the transmission cycle. Amplification of WNV has accelerated with a 3-fold increase in positive pools over the past week. Bird feeding mosquitoes account for all of the positives, to date, with no evidence of transfer to bridge vector species. The cycle in birds, however, remains largely cryptic with a Blue Jay from Ocean Co. representing the only confirmed positive to date this year.

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Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through August 11, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	92	886	
<i>Aedes vexans</i>	64	1218	
<i>Anopheles barberi</i>	1	1	
<i>Anopheles bradleyi</i>	10	120	
<i>Anopheles punctipennis</i>	39	136	
<i>Anopheles quadrimaculatus</i>	46	1957	
<i>Anopheles walkeri</i>	1	11	
<i>Coquillettidia perturbans</i>	29	161	
<i>Culex erraticus</i>	25	542	
<i>Culex pipiens</i>	120	2401	5
<i>Culex restuans</i>	62	949	2
<i>Culex salinarius</i>	50	1229	
<i>Culex spp.</i>	838	37552	46
<i>Culex territans</i>	11	29	
<i>Culiseta melanura</i>	200	2587	
<i>Ochlerotatus atlanticus</i>	9	152	
<i>Ochlerotatus canadensis</i>	9	230	
<i>Ochlerotatus cantator</i>	5	15	
<i>Ochlerotatus japonicus</i>	125	642	
<i>Ochlerotatus sollicitans</i>	12	258	
<i>Ochlerotatus sticticus</i>	11	209	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	5	42	
<i>Ochlerotatus triseriatus</i>	56	199	
<i>Ochlerotatus trivittatus</i>	34	920	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	1	1	
<i>Psorophora columbiae</i>	14	126	
<i>Psorophora ferox</i>	22	439	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	8	229	
Grand Total	1904	53250	53

Submission by County through August 11, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		119	3296	0
	Aedes albopictus	5	119	
	Aedes vexans	9	305	
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	1	23	
	Culex erraticus	10	500	
	Culex restuans	3	10	
	Culex salinarius	5	183	
	Culex spp.	35	1600	
	Culex territans	2	4	
	Culiseta melanura	38	309	
	Ochlerotatus atlanticus	3	101	
	Ochlerotatus canadensis	2	51	
	Ochlerotatus cantator	1	11	
	Ochlerotatus sollicitans	1	25	
	Ochlerotatus triseriatus	1	1	
	Psorophora columbiae	1	50	
	Psorophora howardii	1	3	
Bergen		149	8541	11
	Aedes albopictus	7	97	
	Aedes vexans	8	250	
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	3	6	
	Culex pipiens	13	576	
	Culex restuans	5	47	
	Culex salinarius	15	864	
	Culex spp.	89	6675	11
	Ochlerotatus triseriatus	1	3	
	Ochlerotatus trivittatus	2	2	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	1	11	
	Psorophora ferox	1	2	
Burlington		71	539	1
	Aedes albopictus	10	62	
	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	32	294	

	Ochlerotatus atlanticus	1	1	
	Ochlerotatus canadensis	2	23	
	Ochlerotatus japonicus	5	27	
	Ochlerotatus stimulans	2	2	
	Ochlerotatus triseriatus	2	2	
	Psorophora ferox	2	3	
Camden		52	899	0
	Aedes albopictus	7	39	
	Anopheles punctipennis	4	7	
	Anopheles quadrimaculatus	3	6	
	Coquillettidia perturbans	2	2	
	Culex spp.	21	817	
	Culiseta melanura	12	18	
	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	
Cape_May		18	570	0
	Anopheles bradleyi	1	13	
	Anopheles quadrimaculatus	5	321	
	Coquillettidia perturbans	1	1	
	Culex erraticus	1	1	
	Culex pipiens	1	2	
	Culex restuans	1	4	
	Culex salinarius	1	2	
	Culex territans	1	4	
	Culiseta melanura	6	222	
Cumberland		19	114	0
	Aedes vexans	1	2	
	Anopheles bradleyi	1	5	
	Anopheles quadrimaculatus	1	2	
	Coquillettidia perturbans	1	1	
	Culex erraticus	3	3	

	Culex spp.	7	54	
	Ochlerotatus atlanticus	1	35	
	Ochlerotatus taeniorhynchus	2	7	
	Ochlerotatus triseriatus	1	1	
	Psorophora ferox	1	4	
Essex		60	1040	0
	Aedes albopictus	7	36	
	Aedes vexans	7	69	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	26	743	
	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		95	1148	0
	Aedes albopictus	6	13	
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	3	13	
	Culex pipiens	70	1088	
	Ochlerotatus japonicus	12	15	
	Psorophora ciliata	1	1	
	Psorophora columbiae	1	16	
	Psorophora ferox	1	1	
Hudson		105	4569	16
	Culex spp.	105	4569	16
Hunterdon		87	3725	2
	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.	73	3650	2
	Ochlerotatus japonicus	1	27	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus trivittatus	2	12	
	Uranotaenia sapphirina	1	1	
Mercer		140	2741	8

	<i>Aedes albopictus</i>	16	145	
	<i>Aedes vexans</i>	7	130	
	<i>Anopheles bradleyi</i>	1	2	
	<i>Anopheles punctipennis</i>	3	5	
	<i>Anopheles quadrimaculatus</i>	1	5	
	<i>Coquillettidia perturbans</i>	2	3	
	<i>Culex erraticus</i>	1	4	
	<i>Culex pipiens</i>	30	718	5
	<i>Culex restuans</i>	21	569	2
	<i>Culex salinarius</i>	8	74	
	<i>Culex</i> spp.	18	831	1
	<i>Culex territans</i>	1	1	
	<i>Ochlerotatus canadensis</i>	3	147	
	<i>Ochlerotatus japonicus</i>	9	18	
	<i>Ochlerotatus sticticus</i>	1	3	
	<i>Ochlerotatus triseriatus</i>	6	22	
	<i>Ochlerotatus trivittatus</i>	5	22	
	<i>Psorophora columbiae</i>	5	40	
	<i>Psorophora ferox</i>	2	2	
Middlesex		95	4913	5
	<i>Aedes albopictus</i>	4	33	
	<i>Culex</i> spp.	83	4861	5
	<i>Ochlerotatus japonicus</i>	8	19	
Monmouth		162	1712	1
	<i>Aedes albopictus</i>	9	24	
	<i>Aedes vexans</i>	8	30	
	<i>Anopheles punctipennis</i>	5	9	
	<i>Anopheles quadrimaculatus</i>	2	2	
	<i>Coquillettidia perturbans</i>	2	3	
	<i>Culex restuans</i>	3	7	
	<i>Culex</i> spp.	50	950	1
	<i>Culex territans</i>	4	12	
	<i>Culiseta melanura</i>	35	266	
	<i>Ochlerotatus atlanticus</i>	2	13	
	<i>Ochlerotatus canadensis</i>	2	9	
	<i>Ochlerotatus cantator</i>	1	1	
	<i>Ochlerotatus japonicus</i>	13	94	
	<i>Ochlerotatus sollicitans</i>	10	232	
	<i>Ochlerotatus taeniorhynchus</i>	3	35	
	<i>Ochlerotatus triseriatus</i>	7	14	
	<i>Ochlerotatus trivittatus</i>	3	5	
	<i>Psorophora columbiae</i>	1	1	
	<i>Psorophora ferox</i>	2	5	
Morris		75	1263	0

	Anopheles punctipennis	1	1	
	Culex spp.	50	1149	
	Ochlerotatus japonicus	15	102	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	8	10	
Ocean		75	863	0
	Aedes albopictus	18	314	
	Aedes vexans	1	3	
	Culex restuans	3	12	
	Culex salinarius	9	39	
	Culex spp.	31	436	
	Culex territans	1	4	
	Ochlerotatus japonicus	5	13	
	Ochlerotatus triseriatus	6	21	
	Psorophora ferox	1	21	
Passaic		46	1916	3
	Culex spp.	44	1866	3
	Ochlerotatus japonicus	2	50	
Salem		121	914	1
	Aedes albopictus	2	3	
	Aedes vexans	6	20	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	4	33	
	Anopheles quadrimaculatus	6	41	
	Coquillettidia perturbans	5	8	
	Culex erraticus	8	32	
	Culex pipiens	2	5	
	Culex restuans	17	165	
	Culex salinarius	5	30	
	Culex spp.	23	272	1
	Culiseta melanura	34	293	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Psorophora columbiae	5	8	
Somerset		61	2217	1
	Culex spp.	39	1894	1
	Ochlerotatus japonicus	10	83	
	Ochlerotatus triseriatus	7	44	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
Sussex		159	4980	0

	Aedes vexans	13	381	
	Anopheles barberi	1	1	
	Anopheles punctipennis	8	32	
	Anopheles quadrimaculatus	1	6	
	Anopheles walkeri	1	11	
	Coquillettidia perturbans	6	92	
	Culex pipiens	2	4	
	Culex restuans	6	109	
	Culex salinarius	1	10	
	Culex spp.	60	2830	
	Culex territans	1	1	
	Ochlerotatus japonicus	16	85	
	Ochlerotatus sticticus	7	188	
	Ochlerotatus triseriatus	11	71	
	Ochlerotatus trivittatus	15	740	
	Psorophora ferox	4	192	
	Uranotaenia sapphirina	6	227	
Union		27	731	4
	Aedes albopictus	1	1	
	Anopheles punctipennis	1	1	
	Culex spp.	20	710	4
	Ochlerotatus japonicus	5	19	
Warren		83	3643	0
	Aedes vexans	1	2	
	Anopheles punctipennis	3	12	
	Anopheles quadrimaculatus	1	1	
	Culex spp.	56	3555	
	Ochlerotatus japonicus	15	62	
	Ochlerotatus triseriatus	3	3	
	Ochlerotatus trivittatus	3	7	
	Uranotaenia sapphirina	1	1	
Grand Total		1904	53250	53