

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 12

Culiseta melanura Monitor August 19 - 25, 2006

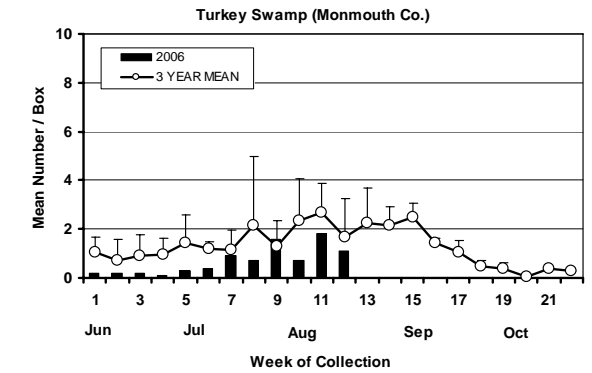
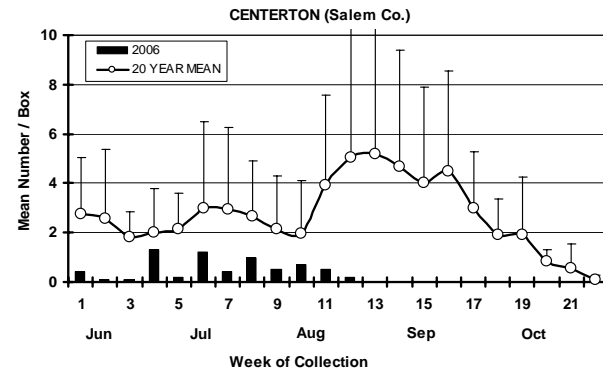
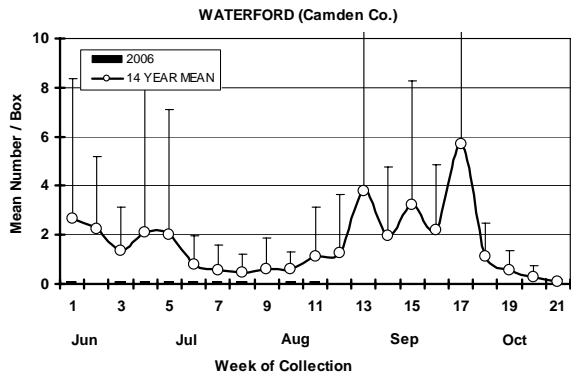
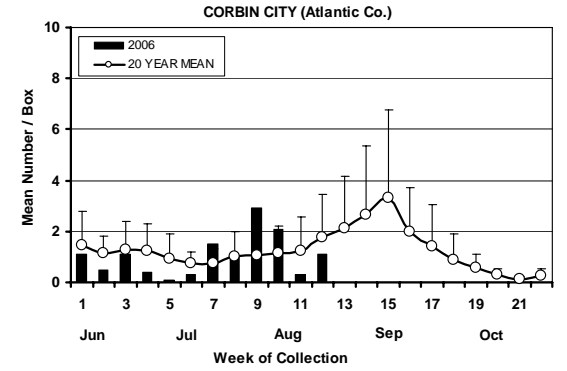
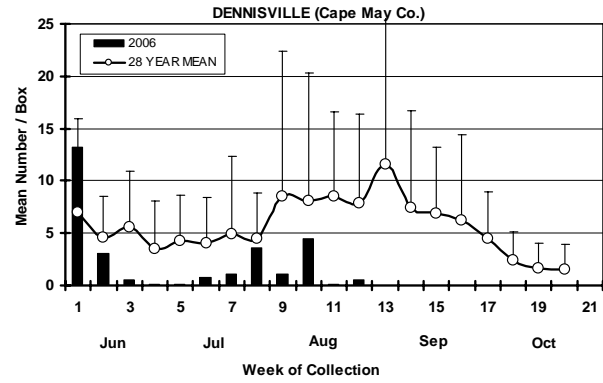
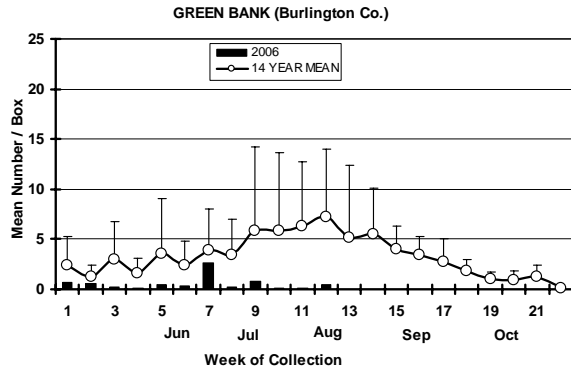
Coastal Resting Boxes						Inland Resting Boxes					
Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date	Sites	Mean From Previous Years	No. Per Box For This Collection	Total Collected to Date	Total Pools Submitted to Date	EEE Isolations To Date
Green Bank (Burlington Co.)	7.3	0.5	322	37	0	Waterford (Camden Co.)	1.3	0	20	14	0
Corbin City (Atlantic Co.)	1.8	1.1	331	43		Centerton (Salem Co.)	5.1	0.2	323	38	0
Dennisville (Cape May Co.)	7.9	0.6	1439	55	0	Turkey Swamp (Monmouth Co.)	1.7	1.1	408	44	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	194	79	74	1,149	236	77	13	37	82	17	161	150	337	2,606
Total Specimens	5,095	1,136	1,930	51,034	2,865	1,322	241	929	342	301	869	1,346	4,946	72,356
No. Positive Pools	24	3	0	89	0	0	0	0	0	0	0	1	0	117
MIR Values	4.71	2.64	-	1.74	-	-	-	-	-	-	-	0.74	-	1.62

Remarks: As we approach the fall season, *Culiseta melanura* populations remain below long-term averages with limited potential to amplify EEE to epizootic levels at this point in time. Fresh specimens have been added to local populations on a gradual basis this year. The abrupt wave of nulliparous specimens normally seen during mid-summer has not been evident at any of the study sites we are monitoring. None of the specimens submitted for PCR testing have shown evidence of EEE virus and no equine cases have been reported, to date. WNV activity in *Culex* mosquitoes has been accelerating, a consistent trend in our area during the month of August. This season's overall MIR value for *Cx. pipiens* is approaching 5.0, a clear indication that WNV amplification is taking place in local birds. The first human case of the season was reported from Union Co. with an onset date of August 4. The positive from *Ae. albopictus* in this year's data set represents the only example of WNV in a predominantly mammal-biting mosquito species.

Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through August 25, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	150	1346	1
<i>Aedes cinereus</i>	1	1	
<i>Aedes vexans</i>	77	1322	
<i>Anopheles barberi</i>	1	1	
<i>Anopheles bradleyi</i>	18	174	
<i>Anopheles crucians</i>	1	1	
<i>Anopheles punctipennis</i>	54	258	
<i>Anopheles quadrimaculatus</i>	64	2185	
<i>Anopheles walkeri</i>	3	20	
<i>Coquillettidia perturbans</i>	39	201	
<i>Culex erraticus</i>	41	633	
<i>Culex pipiens</i>	194	5095	24
<i>Culex restuans</i>	79	1136	3
<i>Culex salinarius</i>	74	1930	
<i>Culex spp.</i>	1149	51034	89
<i>Culex territans</i>	16	54	
<i>Culiseta melanura</i>	236	2865	
<i>Ochlerotatus atlanticus</i>	14	248	
<i>Ochlerotatus atropalpus</i>	1	2	
<i>Ochlerotatus canadensis</i>	13	241	
<i>Ochlerotatus cantator</i>	6	16	
<i>Ochlerotatus japonicus</i>	161	869	
<i>Ochlerotatus punctor</i>	1	1	
<i>Ochlerotatus sollicitans</i>	17	301	
<i>Ochlerotatus sticticus</i>	11	209	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	9	58	
<i>Ochlerotatus triseriatus</i>	82	342	
<i>Ochlerotatus trivittatus</i>	37	929	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	1	1	
<i>Psorophora columbiae</i>	16	139	
<i>Psorophora ferox</i>	26	505	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	9	230	
Grand Total	2606	72356	117

Submission by County through August 25, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		156	3663	0
	Aedes albopictus	9	146	
	Aedes vexans	10	315	
	Anopheles bradleyi	2	24	
	Anopheles punctipennis	1	1	
	Coquillettidia perturbans	4	34	
	Culex erraticus	12	536	
	Culex restuans	3	10	
	Culex salinarius	10	227	
	Culex spp.	40	1675	
	Culex territans	3	5	
	Culiseta melanura	44	345	
	Ochlerotatus atlanticus	4	115	
	Ochlerotatus canadensis	3	57	
	Ochlerotatus cantator	1	11	
	Ochlerotatus sollicitans	2	58	
	Ochlerotatus taeniorhynchus	2	10	
	Ochlerotatus triseriatus	2	4	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	50	
	Psorophora ferox	1	35	
	Psorophora howardii	1	3	
Bergen		202	11476	33
	Aedes albopictus	12	199	1
	Aedes cinereus	1	1	
	Aedes vexans	10	316	
	Anopheles punctipennis	3	6	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	3	6	
	Culex pipiens	19	875	6
	Culex restuans	8	146	1
	Culex salinarius	22	1309	
	Culex spp.	115	8590	25
	Ochlerotatus triseriatus	1	3	
	Ochlerotatus trivittatus	3	4	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	2	15	
	Psorophora ferox	1	2	
Burlington		108	698	1
	Aedes albopictus	17	88	
	Aedes vexans	4	31	
	Anopheles crucians	1	1	

Anopheles punctipennis	2	4	
Anopheles quadrimaculatus	5	7	
Coquillettidia perturbans	3	6	
Culex erraticus	5	28	
Culex pipiens	3	11	
Culex salinarius	1	1	
Culex spp.	11	121	1
Culex territans	1	3	
Culiseta melanura	38	324	
Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	2	23	
Ochlerotatus japonicus	6	28	
Ochlerotatus stimulans	2	2	
Ochlerotatus triseriatus	2	2	
Ochlerotatus trivittatus	1	5	
Psorophora columbiae	1	9	
Psorophora ferox	2	3	
Camden	69	1316	1
Aedes albopictus	8	40	
Anopheles punctipennis	4	7	
Anopheles quadrimaculatus	5	8	
Coquillettidia perturbans	3	3	
Culex restuans	1	1	
Culex spp.	31	1227	1
Culiseta melanura	14	20	
Ochlerotatus japonicus	2	5	
Ochlerotatus triseriatus	1	5	
Cape May	118	3688	0
Anopheles bradleyi	9	124	
Anopheles punctipennis	2	3	
Anopheles quadrimaculatus	31	2036	
Coquillettidia perturbans	1	1	
Culex erraticus	3	3	
Culex pipiens	3	9	
Culex restuans	4	36	
Culex salinarius	6	29	
Culex territans	1	4	
Culiseta melanura	54	1439	
Ochlerotatus atlanticus	1	1	
Ochlerotatus cantator	2	2	
Psorophora ferox	1	1	
Cumberland	34	271	0
Aedes vexans	2	3	
Anopheles bradleyi	3	13	

	Anopheles quadrimaculatus	1	2	
	Coquillettidia perturbans	2	2	
	Culex erraticus	4	4	
	Culex spp.	9	111	
	Ochlerotatus atlanticus	5	117	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus taeniorhynchus	3	9	
	Ochlerotatus triseriatus	1	1	
	Psorophora ferox	3	8	
Essex		82	1602	3
	Aedes albopictus	10	43	
	Aedes vexans	7	69	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	39	1248	3
	Ochlerotatus japonicus	10	69	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	2	17	
	Ochlerotatus triseriatus	3	4	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	5	141	
	Uranotaenia sapphirina	1	1	
Gloucester		144	1868	1
	Aedes albopictus	10	36	
	Aedes vexans	1	2	
	Anopheles bradleyi	2	10	
	Anopheles punctipennis	1	1	
	Anopheles walkeri	2	9	
	Coquillettidia perturbans	4	14	
	Culex pipiens	101	1750	1
	Culex restuans	1	2	
	Culex salinarius	1	2	
	Culex territans	1	1	
	Culiseta melanura	2	3	
	Ochlerotatus canadensis	2	4	
	Ochlerotatus japonicus	13	16	
	Psorophora ciliata	1	1	
	Psorophora columbiae	1	16	
	Psorophora ferox	1	1	
Hudson		167	7436	28
	Aedes albopictus	8	67	
	Aedes vexans	1	6	
	Coquillettidia perturbans	1	18	

	Culex pipiens	19	1232	6
	Culex salinarius	3	197	
	Culex spp.	135	5916	22
Hunterdon		117	5191	4
	Aedes vexans	1	3	
	Anopheles punctipennis	5	101	
	Anopheles quadrimaculatus	1	2	
	Culex erraticus	1	1	
	Culex restuans	1	1	
	Culex salinarius	2	2	
	Culex spp.	101	5040	4
	Ochlerotatus japonicus	1	27	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus trivittatus	2	12	
	Uranotaenia sapphirina	1	1	
Mercer		184	3680	16
	Aedes albopictus	20	158	
	Aedes vexans	8	131	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	3	5	
	Anopheles quadrimaculatus	2	10	
	Coquillettidia perturbans	2	3	
	Culex erraticus	3	21	
	Culex pipiens	44	1207	11
	Culex restuans	30	640	2
	Culex salinarius	9	76	
	Culex spp.	25	1163	3
	Culex territans	1	1	
	Ochlerotatus atropalpus	1	2	
	Ochlerotatus canadensis	3	147	
	Ochlerotatus japonicus	12	24	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus triseriatus	7	23	
	Ochlerotatus trivittatus	5	22	
	Psorophora columbiae	5	40	
	Psorophora ferox	2	2	
Middlesex		128	6174	8
	Aedes albopictus	4	33	
	Culex spp.	115	6115	8
	Ochlerotatus japonicus	9	26	
Monmouth		201	2043	2
	Aedes albopictus	13	47	
	Aedes vexans	9	33	

	Anopheles punctipennis	8	15	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	2	3	
	Culex restuans	4	13	
	Culex spp.	62	1066	2
	Culex territans	6	33	
	Culiseta melanura	44	408	
	Ochlerotatus atlanticus	2	13	
	Ochlerotatus canadensis	3	10	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	14	95	
	Ochlerotatus sollicitans	12	237	
	Ochlerotatus taeniorhynchus	4	39	
	Ochlerotatus triseriatus	9	17	
	Ochlerotatus trivittatus	3	5	
	Psorophora columbiae	1	1	
	Psorophora ferox	2	5	
Morris		105	2013	4
	Anopheles punctipennis	1	1	
	Culex spp.	66	1740	4
	Ochlerotatus japonicus	21	167	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	16	104	
Ocean		105	1119	0
	Aedes albopictus	27	448	
	Aedes vexans	2	4	
	Culex erraticus	1	1	
	Culex restuans	4	13	
	Culex salinarius	13	46	
	Culex spp.	41	529	
	Culex territans	1	4	
	Ochlerotatus japonicus	7	27	
	Ochlerotatus sollicitans	1	4	
	Ochlerotatus triseriatus	7	22	
	Psorophora ferox	1	21	
Passaic		66	2399	5
	Culex spp.	64	2349	5
	Ochlerotatus japonicus	2	50	
Salem		150	1145	1
	Aedes albopictus	3	4	
	Aedes vexans	7	23	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	6	58	

	Anopheles quadrimaculatus	9	99	
	Coquillettidia perturbans	6	10	
	Culex erraticus	11	38	
	Culex pipiens	3	7	
	Culex restuans	17	165	
	Culex salinarius	5	30	
	Culex spp.	31	369	1
	Culex territans	1	2	
	Culiseta melanura	40	326	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	5	8	
Somerset		87	2974	1
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	2	5	
	Culex spp.	54	2612	1
	Ochlerotatus japonicus	12	87	
	Ochlerotatus triseriatus	12	70	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
Sussex		200	6945	0
	Aedes vexans	14	384	
	Anopheles barberi	1	1	
	Anopheles punctipennis	9	34	
	Anopheles quadrimaculatus	1	6	
	Anopheles walkeri	1	11	
	Coquillettidia perturbans	7	97	
	Culex pipiens	2	4	
	Culex restuans	6	109	
	Culex salinarius	1	10	
	Culex spp.	89	4713	
	Culex territans	1	1	
	Ochlerotatus japonicus	22	127	
	Ochlerotatus sticticus	7	188	
	Ochlerotatus triseriatus	13	74	
	Ochlerotatus trivittatus	15	740	
	Psorophora ferox	5	219	
	Uranotaenia sapphirina	6	227	
Union		64	1728	9
	Aedes albopictus	9	37	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	4	

	Culex spp.	44	1661	9
	Ochlerotatus japonicus	7	22	
	Ochlerotatus punctor	1	1	
	Ochlerotatus triseriatus	1	2	
Warren		119	4927	0
	Aedes vexans	1	2	
	Anopheles punctipennis	5	16	
	Anopheles quadrimaculatus	2	2	
	Culex erraticus	1	1	
	Culex salinarius	1	1	
	Culex spp.	77	4789	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	22	98	
	Ochlerotatus triseriatus	5	9	
	Ochlerotatus trivittatus	3	7	
	Uranotaenia sapphirina	1	1	
Grand Total		2606	72356	117