

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 17

Culiseta melanura Monitor September 23-29, 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.)	2.7	1.0	645	57	1	Waterford (Camden Co.)	5.7	0.1	161	27	0
Corbin City (Atlantic Co.)	1.4	0.2	386	59	0	Centerton (Salem Co.)	3.0	3.5	911	60	0
Dennisville (Cape May Co.)	4.4	0.4	1874	76	0	Turkey Swamp (Monmouth Co.)	1.0	0.1	93	61	0

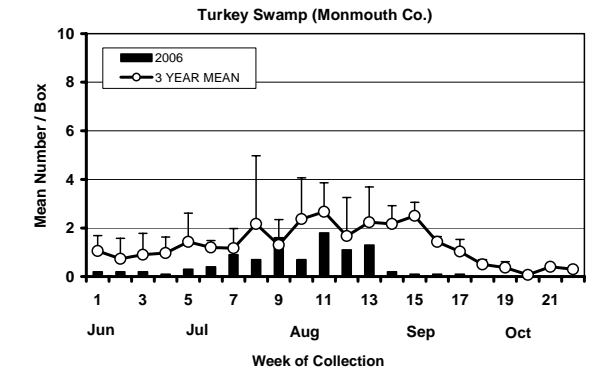
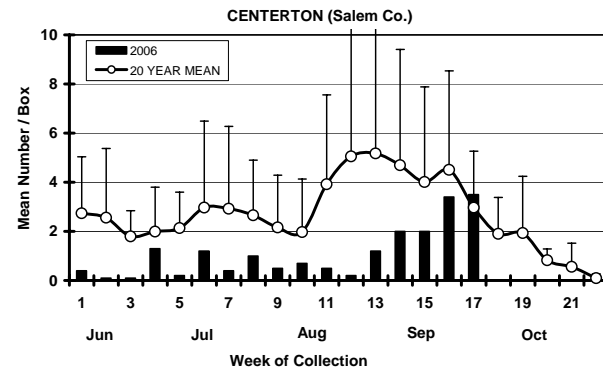
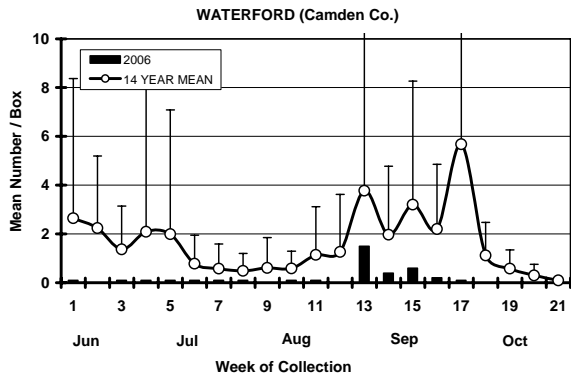
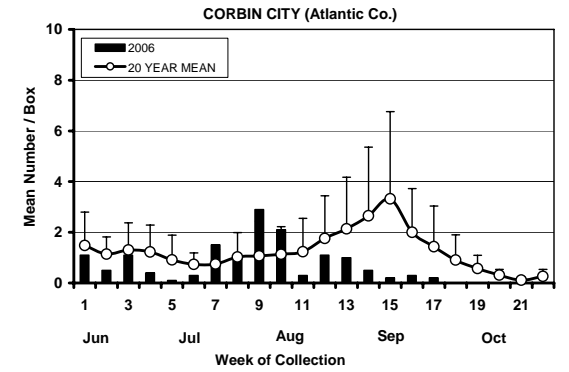
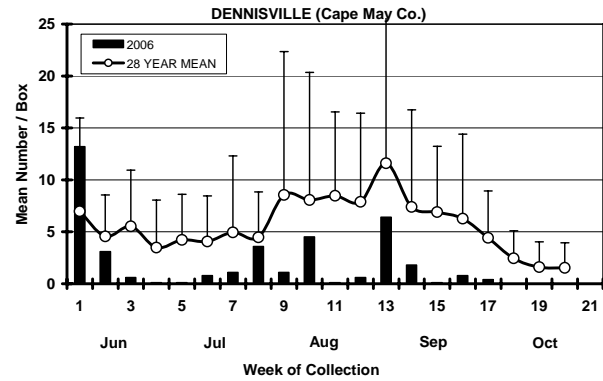
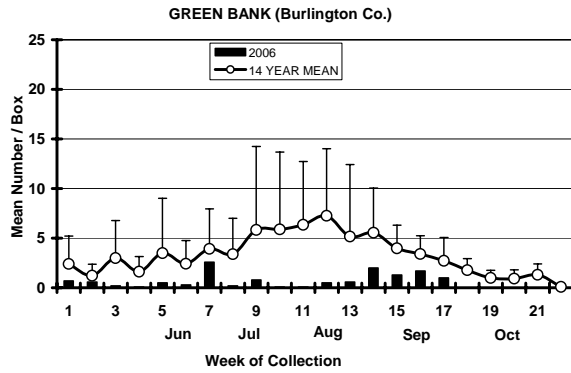
Collections submitted to PHEL for West Nile Virus testing

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	343	137	142	1,749	371	162	28	63	132	32	269	355	593	4,376
Total Specimens	9,029	2,184	4,945	68,883	4,749	3,323	305	1,151	448	529	1,208	2,704	7,366	106,824
No. Positive Pools	55	7	0	176	1	0	0	0	0	0	0	2	0	241

Remarks: *Culiseta melanura* populations continue to rise at the Centerton site in Salem Co., indicating that late season amplification could still occur if EEE were introduced via migrating birds. Salem has been a focus for equine activity over the years and equine cases in southern New Jersey are occasionally documented well into October. Resting box collections remain below long-term averages at the other sites being monitored for EEE. Cool night time temperatures will reduce mosquito activity drastically over the next month and eventually terminate the cycle for this year. Amplification of WNV by *Culex* mosquitoes has slowed somewhat with only 11 new positives over the past week. All but 2 of the 241 positive pools obtained have come from mosquito species recognized primarily as bird feeders. A fifth human case was obtained from a Bergen Co. resident with onset in early September. *Aedes albopictus* remains as the only mammal biter testing positive to date.

<p>New Jersey Agricultural Experiment Station Publication No. PT-08-40500-17-06 Supported by State funds and funding by the NJ State Mosquito Control Commission.</p>

Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through September 29, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	355	2704	2
<i>Aedes cinereus</i>	1	1	
<i>Aedes vexans</i>	162	3323	
<i>Anopheles barberi</i>	4	4	
<i>Anopheles bradleyi</i>	48	445	
<i>Anopheles crucians</i>	1	1	
<i>Anopheles punctipennis</i>	80	327	
<i>Anopheles quadrimaculatus</i>	104	2869	
<i>Anopheles walkeri</i>	3	20	
<i>Coquillettidia perturbans</i>	55	242	
<i>Culex erraticus</i>	78	941	
<i>Culex pipiens</i>	343	9029	55
<i>Culex restuans</i>	137	2184	7
<i>Culex salinarius</i>	142	4945	
<i>Culex spp.</i>	1749	68883	176
<i>Culex territans</i>	32	83	
<i>Culiseta melanura</i>	371	4749	1
<i>Ochlerotatus atlanticus</i>	27	310	
<i>Ochlerotatus atropalpus</i>	1	2	
<i>Ochlerotatus canadensis</i>	28	305	
<i>Ochlerotatus cantator</i>	14	158	
<i>Ochlerotatus japonicus</i>	269	1208	
<i>Ochlerotatus punctor</i>	1	1	
<i>Ochlerotatus sollicitans</i>	32	529	
<i>Ochlerotatus sticticus</i>	15	224	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	21	176	
<i>Ochlerotatus triseriatus</i>	132	448	
<i>Ochlerotatus trivittatus</i>	63	1151	
<i>Orthopodomyia signifera</i>	3	7	
<i>Psorophora ciliata</i>	4	14	
<i>Psorophora columbiae</i>	32	434	
<i>Psorophora ferox</i>	46	633	
<i>Psorophora howardii</i>	2	5	
<i>Uranotaenia sapphirina</i>	18	466	
Grand Total	4,376	106,824	241

Submission by County through September 29, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		249	4919	0
	Aedes albopictus	19	197	
	Aedes vexans	22	664	
	Anopheles bradleyi	8	96	
	Anopheles punctipennis	2	6	
	Coquillettidia perturbans	5	35	
	Culex erraticus	15	595	
	Culex restuans	3	10	
	Culex salinarius	11	230	
	Culex spp.	51	1861	
	Culex territans	4	6	
	Culiseta melanura	63	410	
	Ochlerotatus atlanticus	7	133	
	Ochlerotatus canadensis	6	66	
	Ochlerotatus cantator	6	147	
	Ochlerotatus japonicus	3	4	
	Ochlerotatus sollicitans	10	272	
	Ochlerotatus taeniorhynchus	6	71	
	Ochlerotatus triseriatus	3	5	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	50	
	Psorophora ferox	2	56	
	Psorophora howardii	1	3	
Bergen		420	21812	60
	Aedes albopictus	27	289	1
	Aedes cinereus	1	1	
	Aedes vexans	35	1521	
	Anopheles punctipennis	6	11	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	7	14	
	Culex erraticus	1	2	
	Culex pipiens	60	3138	21
	Culex restuans	20	487	4
	Culex salinarius	66	3943	
	Culex spp.	166	12111	34
	Culex territans	1	1	
	Ochlerotatus japonicus	1	2	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	2	10	
	Ochlerotatus triseriatus	4	14	
	Ochlerotatus trivittatus	5	7	
	Orthopodomyia signifera	2	4	
	Psorophora columbiae	9	201	

	Psorophora ferox	3	51	
	Uranotaenia sapphirina	1	2	
Burlington		213	1538	2
	Aedes albopictus	29	202	
	Aedes vexans	9	49	
	Anopheles barberi	1	1	
	Anopheles bradleyi	7	96	
	Anopheles crucians	1	1	
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	6	8	
	Coquillettidia perturbans	4	7	
	Culex erraticus	10	37	
	Culex pipiens	5	13	
	Culex restuans	1	2	
	Culex salinarius	3	13	
	Culex spp.	21	192	2
	Culex territans	2	4	
	Culiseta melanura	64	737	
	Ochlerotatus atlanticus	5	11	
	Ochlerotatus canadensis	8	34	
	Ochlerotatus cantator	3	6	
	Ochlerotatus japonicus	7	29	
	Ochlerotatus sollicitans	4	9	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus stimulans	2	2	
	Ochlerotatus taeniorhynchus	2	7	
	Ochlerotatus triseriatus	3	3	
	Ochlerotatus trivittatus	3	8	
	Orthopodomyia signifera	1	3	
	Psorophora ciliata	1	9	
	Psorophora columbiae	1	9	
	Psorophora ferox	5	10	
	Psorophora howardii	1	2	
	Uranotaenia sapphirina	1	27	
Camden		123	1784	3
	Aedes albopictus	14	48	
	Aedes vexans	5	70	
	Anopheles punctipennis	7	11	
	Anopheles quadrimaculatus	8	14	
	Coquillettidia perturbans	4	4	
	Culex erraticus	1	3	
	Culex restuans	2	2	
	Culex spp.	43	1442	3
	Culex territans	1	1	
	Culiseta melanura	27	161	

	Ochlerotatus japonicus	7	11	
	Ochlerotatus triseriatus	1	5	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	1	8	
	Uranotaenia sapphirina	1	1	
Cape May		210	5156	1
	Aedes albopictus	10	77	
	Aedes vexans	1	8	
	Anopheles bradleyi	16	200	
	Anopheles punctipennis	2	3	
	Anopheles quadrimaculatus	49	2520	
	Coquillettidia perturbans	2	15	
	Culex erraticus	12	150	
	Culex pipiens	7	41	
	Culex restuans	14	81	
	Culex salinarius	7	30	
	Culex territans	1	4	
	Culiseta melanura	85	2023	1
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	2	2	
	Psorophora ferox	1	1	
Cumberland		94	737	0
	Aedes albopictus	2	2	
	Aedes vexans	2	3	
	Anopheles bradleyi	9	31	
	Anopheles quadrimaculatus	3	4	
	Coquillettidia perturbans	7	14	
	Culex erraticus	11	24	
	Culex spp.	30	431	
	Ochlerotatus atlanticus	11	151	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus sollicitans	3	5	
	Ochlerotatus taeniorhynchus	9	59	
	Ochlerotatus triseriatus	1	1	
	Psorophora ferox	5	11	
Essex		100	1870	6
	Aedes albopictus	12	50	
	Aedes vexans	9	72	
	Anopheles punctipennis	2	2	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	49	1500	6
	Culiseta melanura	1	2	
	Ochlerotatus japonicus	11	70	

	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	3	19	
	Ochlerotatus triseriatus	3	4	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	5	141	
	Uranotaenia sapphirina	1	1	
Gloucester		221	2511	2
	Aedes albopictus	15	45	
	Aedes vexans	1	2	
	Anopheles bradleyi	2	10	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	2	3	
	Anopheles walkeri	2	9	
	Coquillettidia perturbans	4	14	
	Culex pipiens	163	2369	2
	Culex restuans	1	2	
	Culex salinarius	1	2	
	Culex territans	1	1	
	Culiseta melanura	2	3	
	Ochlerotatus canadensis	2	4	
	Ochlerotatus japonicus	20	27	
	Ochlerotatus triseriatus	1	1	
	Psorophora ciliata	1	1	
	Psorophora columbiae	1	16	
	Psorophora ferox	1	1	
Hudson		252	9340	46
	Aedes albopictus	10	81	
	Aedes vexans	2	7	
	Coquillettidia perturbans	2	20	
	Culex pipiens	21	1234	8
	Culex salinarius	7	364	
	Culex spp.	210	7634	38
Hunterdon		231	8175	13
	Aedes albopictus	1	2	
	Aedes vexans	2	8	
	Anopheles barberi	1	1	
	Anopheles punctipennis	9	108	
	Anopheles quadrimaculatus	4	13	
	Culex erraticus	1	1	
	Culex pipiens	4	42	
	Culex restuans	14	476	1
	Culex salinarius	3	3	
	Culex spp.	169	7432	12
	Culex territans	2	2	

	Ochlerotatus japonicus	8	48	
	Ochlerotatus sticticus	1	1	
	Ochlerotatus triseriatus	4	4	
	Ochlerotatus trivittatus	5	22	
	Psorophora columbiae	1	10	
	Uranotaenia sapphirina	2	2	
Mercer		323	5356	35
	Aedes albopictus	79	530	1
	Aedes vexans	14	160	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	3	5	
	Anopheles quadrimaculatus	2	10	
	Coquillettidia perturbans	2	3	
	Culex erraticus	7	48	
	Culex pipiens	61	1811	23
	Culex restuans	39	722	2
	Culex salinarius	9	76	
	Culex spp.	33	1463	9
	Culex territans	2	2	
	Culiseta melanura	1	1	
	Ochlerotatus atropalpus	1	2	
	Ochlerotatus canadensis	5	154	
	Ochlerotatus japonicus	23	48	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus triseriatus	14	31	
	Ochlerotatus trivittatus	8	28	
	Psorophora columbiae	8	43	
	Psorophora ferox	7	14	
	Uranotaenia sapphirina	3	200	
Middlesex		215	7621	21
	Aedes albopictus	19	121	
	Anopheles punctipennis	1	1	
	Culex pipiens	1	1	
	Culex restuans	1	2	
	Culex spp.	179	7435	21
	Ochlerotatus japonicus	14	61	
Monmouth		313	2495	2
	Aedes albopictus	42	180	
	Aedes vexans	19	80	
	Anopheles punctipennis	11	20	
	Anopheles quadrimaculatus	6	8	
	Coquillettidia perturbans	2	3	
	Culex erraticus	2	6	
	Culex pipiens	1	1	

	<i>Culex restuans</i>	7	17	
	<i>Culex</i> spp.	83	1182	2
	<i>Culex territans</i>	10	48	
	<i>Culiseta melanura</i>	61	493	
	<i>Ochlerotatus atlanticus</i>	2	13	
	<i>Ochlerotatus canadensis</i>	4	11	
	<i>Ochlerotatus cantator</i>	1	1	
	<i>Ochlerotatus japonicus</i>	19	110	
	<i>Ochlerotatus sollicitans</i>	12	237	
	<i>Ochlerotatus taeniorhynchus</i>	4	39	
	<i>Ochlerotatus triseriatus</i>	16	30	
	<i>Ochlerotatus trivittatus</i>	5	7	
	<i>Psorophora columbiae</i>	2	2	
	<i>Psorophora ferox</i>	4	7	
Morris		153	2508	5
	<i>Anopheles punctipennis</i>	2	3	
	<i>Coquillettidia perturbans</i>	1	1	
	<i>Culex restuans</i>	1	13	
	<i>Culex</i> spp.	95	2179	5
	<i>Ochlerotatus japonicus</i>	29	188	
	<i>Ochlerotatus stimulans</i>	1	1	
	<i>Ochlerotatus triseriatus</i>	22	118	
	<i>Ochlerotatus trivittatus</i>	1	1	
	<i>Uranotaenia sapphirina</i>	1	4	
Ocean		180	1681	1
	<i>Aedes albopictus</i>	57	793	
	<i>Aedes vexans</i>	5	60	
	<i>Coquillettidia perturbans</i>	1	1	
	<i>Culex erraticus</i>	1	1	
	<i>Culex restuans</i>	8	17	
	<i>Culex salinarius</i>	16	49	
	<i>Culex</i> spp.	54	576	1
	<i>Culex territans</i>	2	5	
	<i>Culiseta melanura</i>	5	5	
	<i>Ochlerotatus canadensis</i>	2	35	
	<i>Ochlerotatus japonicus</i>	12	49	
	<i>Ochlerotatus sollicitans</i>	1	4	
	<i>Ochlerotatus triseriatus</i>	11	38	
	<i>Ochlerotatus trivittatus</i>	1	2	
	<i>Psorophora ferox</i>	4	46	
Passaic		102	3279	13
	<i>Aedes albopictus</i>	1	13	
	<i>Culex</i> spp.	98	3205	13
	<i>Ochlerotatus japonicus</i>	3	61	

Salem	204	2027	1
Aedes albopictus	6	33	
Aedes vexans	8	28	
Anopheles bradleyi	5	10	
Anopheles punctipennis	11	93	
Anopheles quadrimaculatus	15	269	
Coquillettidia perturbans	6	10	
Culex erraticus	16	73	
Culex pipiens	3	7	
Culex restuans	17	165	
Culex salinarius	5	30	
Culex spp.	34	373	1
Culex territans	5	8	
Culiseta melanura	62	914	
Ochlerotatus atlanticus	1	1	
Ochlerotatus cantator	1	1	
Ochlerotatus japonicus	1	1	
Ochlerotatus triseriatus	3	3	
Psorophora columbiae	5	8	
Somerset	157	4172	7
Anopheles barberi	1	1	
Anopheles punctipennis	4	6	
Anopheles quadrimaculatus	2	5	
Culex spp.	104	3748	7
Ochlerotatus japonicus	26	137	
Ochlerotatus triseriatus	13	72	
Ochlerotatus trivittatus	5	136	
Psorophora ferox	2	67	
Sussex	259	9250	2
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	9	158	
Culex spp.	125	6807	2
Culex territans	1	1	
Ochlerotatus japonicus	31	170	
Ochlerotatus sticticus	7	188	
Ochlerotatus triseriatus	18	83	
Ochlerotatus trivittatus	16	751	

	Psorophora ferox	5	219	
	Uranotaenia sapphirina	6	227	
Union		81	2041	17
	Aedes albopictus	12	41	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	4	
	Culex spp.	54	1960	17
	Ochlerotatus japonicus	9	25	
	Ochlerotatus punctor	1	1	
	Ochlerotatus triseriatus	3	9	
Warren		276	8552	4
	Aedes vexans	14	207	
	Anopheles punctipennis	7	18	
	Anopheles quadrimaculatus	2	2	
	Culex erraticus	1	1	
	Culex pipiens	15	368	1
	Culex restuans	3	79	
	Culex salinarius	5	47	
	Culex spp.	151	7352	3
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	45	167	
	Ochlerotatus triseriatus	12	27	
	Ochlerotatus trivittatus	11	181	
	Psorophora ciliata	2	4	
	Psorophora columbiae	4	95	
	Psorophora ferox	1	1	
	Uranotaenia sapphirina	2	2	
Grand Total		4,376	106,824	241