

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 12

Culiseta melanura Monitor August 16 - 22, 2004

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.)	8.3	0.5	1,248	55	2	Waterford (Camden Co.)	1.4	0.4	977	47	0
Corbin City (Atlantic Co.)	1.2	1.9	545	45	0	Centerton (Salem Co.)	5.3	5.4	1,848	65	4
Dennisville (Cape May Co.)	7.9	6.7	1,334	57	0	Turkey Swamp (Monmouth Co.)	1.3	0.7	419	44	0

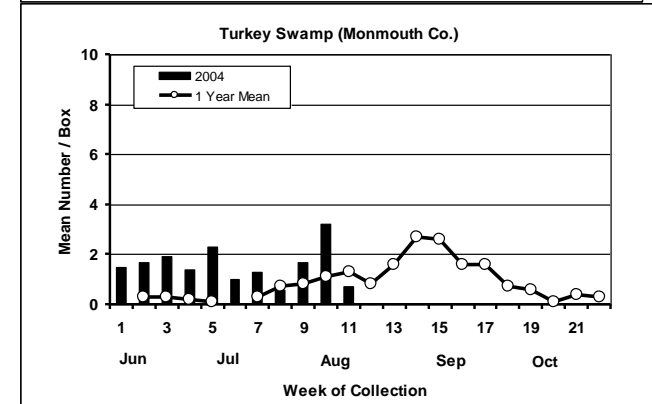
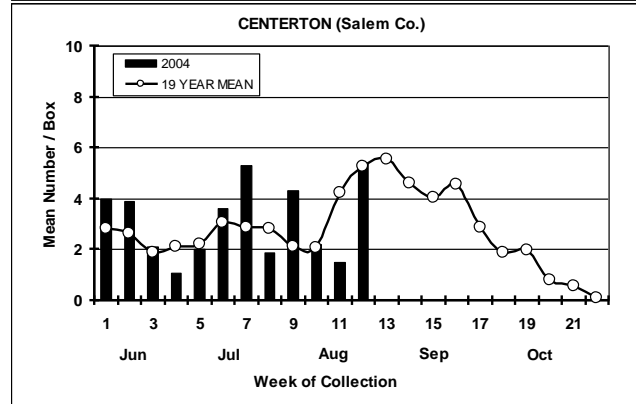
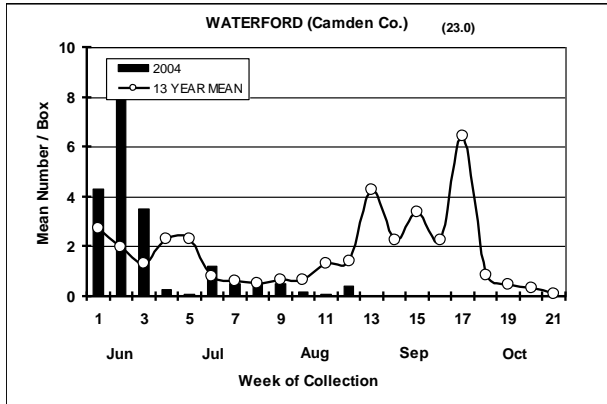
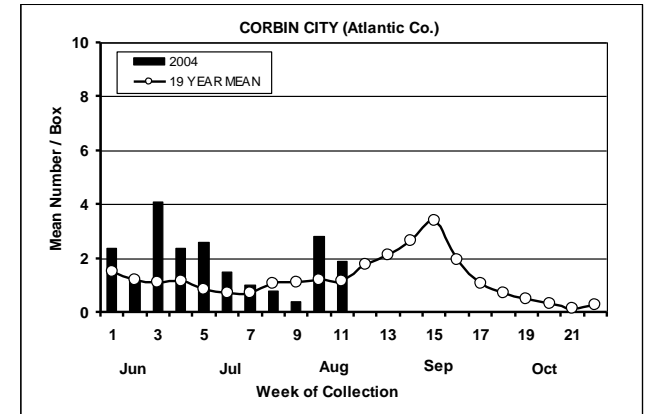
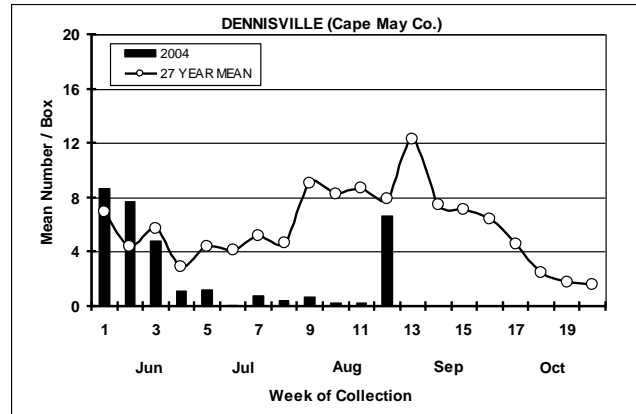
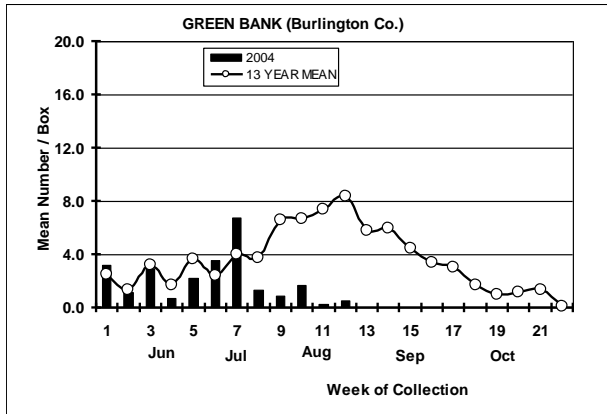
Collections submitted to PHEL for West Nile Virus testing

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	202	180	113	1,068	442	190	117	37	150	69	360	70	627	3,625
Total Specimens	5,150	3,227	2,809	36,545	7,827	2,783	1,497	454	747	1,194	2,369	381	8,693	73,676
No. Positive Pools	18	3	1	62	4	0	0	0	0	0	0	0	0	88

Remarks: No new equine cases of EEE were documented over the past week but *Culiseta melanura* populations remain high at several of the sites we are monitoring in New Jersey. One additional positive pool was obtained at the Centerton site in Salem Co. from specimens collected on August 10, 2004. Resting box data show that *Cs. melanura* are currently increasing at several of the collection sites in our surveillance network. This year's rainfall patterns assure that adequate breeding habitat is available to sustain this species for the rest of the season. WNV positives are currently increasing incrementally, a pattern we normally associate with the month of August in the northeast. Infection rates in *Culex* spp are still highest in Gloucester Co. (MIR=4.6) but *Culex* from Mercer (MIR=2.1), Bergen (MIR=2.6) & Hudson (MIR=3.7) point toward WNV amplification in urban foci as well. Surveillance data still indicate that WNV is largely limited to bird feeding mosquitoes but a positive horse from Gloucester County show that virus activity has progressed from amplification to epizootic status in some areas of the state.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-12-04 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



Resting box data show that *Culiseta melanura* populations dropped markedly at Green Bank, Dennisville and Waterford after a high spring influx of adults from the overwintering generation of larvae. *Culiseta melanura* remained above average at Centerton, Corbin City and Turkey Swamp during the same time period. EEE virus appeared at Green Bank and Centerton during the month of July. Current population trends point toward an increase of nulliparous specimens at Dennisville, Corbin City and Centerton. Historical data suggest that populations should continue to build at all sites well into the month of September.

Mosquito Species Submitted for West Nile Virus Testing through August 20, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	70	381	
Aedes cinereus	9	93	
Aedes vexans	190	2783	
Anopheles barberi	5	6	
Anopheles bradleyi	15	45	
Anopheles crucians	1	3	
Anopheles punctipennis	119	743	
Anopheles quadrimaculatus	101	2466	
Anopheles walkeri	8	167	
Coquilletidia perturbans	87	1275	
Culex erraticus	14	285	
Culex pipiens	202	5150	18
Culex restuans	180	3227	3
Culex salinarius	113	2809	1
Culex spp.	1068	36545	62
Culex territans	27	77	
Culiseta melanura	442	7827	4
Culiseta morsitans	1	1	
Ochlerotatus abserratus	2	13	
Ochlerotatus atlanticus	5	11	
Ochlerotatus atropalpus	2	11	
Ochlerotatus canadensis	117	1497	
Ochlerotatus cantator	45	969	
Ochlerotatus excrucians	3	4	
Ochlerotatus grossbecki	8	21	
Ochlerotatus japonicus	360	2369	
Ochlerotatus mitchellae	2	3	
Ochlerotatus punctor	1	4	
Ochlerotatus sollicitans	69	1194	
Ochlerotatus sticticus	10	93	
Ochlerotatus stimulans	6	33	
Ochlerotatus taeniorhynchus	12	150	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	150	747	
Ochlerotatus trivittatus	37	454	
Orthopodomyia signifera	4	8	
Psorophora ciliata	22	252	
Psorophora columbiae	40	579	
Psorophora discolor	1	1	
Psorophora ferox	58	1208	
Psorophora howardii	4	15	
Uranotaenia sapphirina	14	156	
Grand Total	3625	73676	88

County	Species	Pools	Mosquitoes	Positives
Atlantic		290	6743	8
	Aedes albopictus	12	92	
	Aedes cinereus	1	35	
	Aedes vexans	20	436	
	Anopheles bradleyi	4	6	
	Anopheles punctipennis	2	5	
	Anopheles quadrimaculatus	3	5	
	Coquillettidia perturbans	10	153	
	Culex erraticus	5	90	
	Culex pipiens	7	191	1
	Culex restuans	11	124	
	Culex salinarius	4	41	
	Culex spp.	70	2827	7
	Culex territans	2	6	
	Culiseta melanura	60	1038	
	Ochlerotatus canadensis	15	325	
	Ochlerotatus cantator	20	788	
	Ochlerotatus japonicus	11	73	
	Ochlerotatus sollicitans	13	307	
	Ochlerotatus taeniorhynchus	6	47	
	Ochlerotatus triseriatus	11	116	
	Ochlerotatus trivittatus	1	1	
	Orthopodomyia signifera	1	4	
	Psorophora ferox	1	33	
Bergen		154	7816	22
	Aedes albopictus	2	17	
	Aedes cinereus	1	11	
	Aedes vexans	7	287	
	Culex pipiens	15	710	7
	Culex restuans	3	28	
	Culex salinarius	14	917	1
	Culex spp.	97	5476	14
	Culiseta melanura	1	1	
	Ochlerotatus canadensis	1	3	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	2	66	
	Ochlerotatus sollicitans	6	269	
	Ochlerotatus triseriatus	4	30	
Burlington		192	2924	7
	Aedes albopictus	10	47	
	Aedes cinereus	1	3	
	Aedes vexans	16	181	
	Anopheles bradleyi	1	5	
	Anopheles crucians	1	3	

Anopheles punctipennis	6	29	
Anopheles quadrimaculatus	5	29	
Coquillettidia perturbans	6	48	
Culex erraticus	1	2	
Culex pipiens	2	21	
Culex restuans	1	11	
Culex salinarius	2	2	
Culex spp.	25	837	3
Culex territans	2	8	
Culiseta melanura	63	1425	4
Ochlerotatus abserratus	1	9	
Ochlerotatus atlanticus	1	2	
Ochlerotatus atropalpus	1	3	
Ochlerotatus canadensis	4	17	
Ochlerotatus cantator	1	2	
Ochlerotatus grossbecki	1	6	
Ochlerotatus japonicus	14	46	
Ochlerotatus mitchellae	2	3	
Ochlerotatus sollicitans	3	16	
Ochlerotatus sticticus	2	13	
Ochlerotatus stimulans	1	4	
Ochlerotatus taeniorhynchus	1	7	
Ochlerotatus triseriatus	6	29	
Ochlerotatus trivittatus	2	2	
Orthopodomyia signifera	1	2	
Psorophora ciliata	2	18	
Psorophora columbiae	2	59	
Psorophora ferox	2	10	
Psorophora howardii	1	7	
Uranotaenia sapphirina	2	18	
Camden	101	1246	0
Aedes albopictus	5	33	
Aedes cinereus	1	1	
Aedes vexans	2	6	
Anopheles bradleyi	1	6	
Anopheles punctipennis	9	37	
Anopheles quadrimaculatus	5	8	
Coquillettidia perturbans	1	3	
Culex pipiens	1	2	
Culex restuans	2	6	
Culex spp.	3	21	
Culex territans	1	1	
Culiseta melanura	53	993	
Ochlerotatus atlanticus	1	1	
Ochlerotatus canadensis	4	11	
Ochlerotatus japonicus	3	13	

	Ochlerotatus triseriatus	1	2	
	Ochlerotatus trivittatus	1	1	
	Psorophora ferox	7	101	
Cape May		276	5390	1
	Aedes albopictus	4	9	
	Aedes vexans	1	6	
	Anopheles bradleyi	4	19	
	Anopheles punctipennis	3	25	
	Anopheles quadrimaculatus	39	2135	
	Coquillettidia perturbans	6	120	
	Culex erraticus	4	187	
	Culex pipiens	54	702	
	Culex restuans	39	251	1
	Culex salinarius	14	192	
	Culex territans	6	24	
	Culiseta melanura	78	1510	
	Ochlerotatus cantator	4	17	
	Ochlerotatus japonicus	7	19	
	Ochlerotatus sollicitans	7	74	
	Ochlerotatus taeniorhynchus	4	95	
	Ochlerotatus triseriatus	2	5	
Cumberland		209	1559	0
	Aedes albopictus	1	1	
	Aedes vexans	41	361	
	Anopheles bradleyi	1	5	
	Anopheles punctipennis	5	9	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	3	3	
	Culex erraticus	1	1	
	Culex pipiens	13	181	
	Culex restuans	11	67	
	Culex salinarius	19	557	
	Culex spp.	10	28	
	Culiseta melanura	10	16	
	Ochlerotatus canadensis	42	157	
	Ochlerotatus cantator	10	14	
	Ochlerotatus grossbecki	2	3	
	Ochlerotatus japonicus	14	42	
	Ochlerotatus sollicitans	5	10	
	Ochlerotatus triseriatus	6	8	
	Ochlerotatus trivittatus	2	2	
	Psorophora ciliata	1	4	
	Psorophora columbiae	11	89	

Essex	119	1421	0
Aedes albopictus	3	4	
Aedes vexans	8	39	
Anopheles punctipennis	1	1	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	8	62	
Culex spp.	49	656	
Ochlerotatus abserratus	1	4	
Ochlerotatus canadensis	1	4	
Ochlerotatus japonicus	12	66	
Ochlerotatus sticticus	5	24	
Ochlerotatus triseriatus	7	20	
Ochlerotatus trivittatus	1	12	
Psorophora ferox	22	528	
Gloucester	202	4205	14
Aedes albopictus	9	33	
Aedes vexans	10	93	
Anopheles bradleyi	1	1	
Anopheles punctipennis	7	23	
Anopheles quadrimaculatus	3	5	
Coquillettidia perturbans	1	1	
Culex pipiens	13	537	
Culex restuans	8	126	
Culex salinarius	7	87	
Culex spp.	93	3026	14
Culex territans	1	1	
Culiseta melanura	6	95	
Ochlerotatus canadensis	1	1	
Ochlerotatus japonicus	24	115	
Ochlerotatus sollicitans	1	1	
Ochlerotatus triseriatus	7	22	
Psorophora columbiae	3	15	
Psorophora ferox	7	23	
Hudson	91	2944	11
Culex spp.	91	2944	11
Hunterdon	125	5296	3
Aedes vexans	1	37	
Anopheles punctipennis	2	19	
Anopheles quadrimaculatus	1	16	
Culex spp.	109	5050	3
Ochlerotatus japonicus	6	35	
Ochlerotatus trivittatus	2	100	
Psorophora ciliata	3	31	
Psorophora columbiae	1	8	

Mercer	197	4704	10
Aedes albopictus	5	9	
Aedes cinereus	2	22	
Aedes vexans	11	321	
Anopheles punctipennis	8	110	
Anopheles quadrimaculatus	3	13	
Coquillettidia perturbans	5	110	
Culex pipiens	41	1272	9
Culex restuans	32	715	
Culex salinarius	6	48	
Culex spp.	18	806	1
Culex territans	1	2	
Culiseta melanura	3	7	
Ochlerotatus atropalpus	1	8	
Ochlerotatus canadensis	10	458	
Ochlerotatus excrucians	2	3	
Ochlerotatus japonicus	23	114	
Ochlerotatus sticticus	1	40	
Ochlerotatus triseriatus	8	17	
Ochlerotatus trivittatus	4	92	
Psorophora ciliata	1	8	
Psorophora columbiae	1	23	
Psorophora ferox	6	382	
Psorophora howardii	2	7	
Uranotaenia sapphirina	3	117	
Middlesex	57	803	0
Aedes albopictus	2	2	
Aedes vexans	4	35	
Anopheles punctipennis	4	7	
Culex pipiens	7	300	
Culex restuans	3	24	
Culex spp.	16	338	
Ochlerotatus japonicus	5	21	
Ochlerotatus sollicitans	4	50	
Ochlerotatus triseriatus	6	9	
Ochlerotatus trivittatus	3	14	
Orthopodomyia signifera	1	1	
Psorophora columbiae	2	2	
Monmouth	344	4320	1
Aedes albopictus	2	2	
Aedes vexans	20	316	
Anopheles barberi	3	3	
Anopheles punctipennis	16	117	
Anopheles quadrimaculatus	13	42	

	Coquillettidia perturbans	7	16	
	Culex erraticus	2	4	
	Culex pipiens	25	888	1
	Culex restuans	18	380	
	Culex salinarius	18	783	
	Culex spp.	41	226	
	Culex territans	3	4	
	Culiseta melanura	52	391	
	Ochlerotatus atlanticus	3	8	
	Ochlerotatus canadensis	14	115	
	Ochlerotatus cantator	3	10	
	Ochlerotatus grossbecki	1	2	
	Ochlerotatus japonicus	37	281	
	Ochlerotatus sollicitans	10	155	
	Ochlerotatus sticticus	1	3	
	Ochlerotatus taeniorhynchus	1	1	
	Ochlerotatus triseriatus	31	285	
	Ochlerotatus trivittatus	5	14	
	Psorophora ciliata	5	53	
	Psorophora columbiae	8	188	
	Psorophora ferox	5	33	
Morris		137	4717	1
	Aedes cinereus	1	10	
	Aedes vexans	2	13	
	Anopheles punctipennis	3	6	
	Coquillettidia perturbans	3	30	
	Culex pipiens	2	6	
	Culex restuans	1	1	
	Culex spp.	82	4272	1
	Ochlerotatus canadensis	1	11	
	Ochlerotatus japonicus	30	177	
	Ochlerotatus sticticus	1	13	
	Ochlerotatus triseriatus	8	27	
	Ochlerotatus trivittatus	1	75	
	Psorophora ferox	2	76	
Ocean		291	3668	4
	Aedes albopictus	13	128	
	Aedes vexans	19	440	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	11	121	
	Anopheles quadrimaculatus	6	18	
	Coquillettidia perturbans	14	301	
	Culex pipiens	12	226	
	Culex restuans	14	302	2
	Culex salinarius	22	154	

Culex spp.	34	558	2
Culex territans	2	5	
Culiseta melanura	46	495	
Ochlerotatus canadensis	12	239	
Ochlerotatus cantator	1	50	
Ochlerotatus grossbecki	4	10	
Ochlerotatus japonicus	23	88	
Ochlerotatus sollicitans	20	312	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	12	29	
Ochlerotatus trivittatus	2	4	
Orthopodomyia signifera	1	1	
Psorophora ciliata	8	134	
Psorophora columbiae	3	17	
Psorophora ferox	5	21	
Psorophora howardii	1	1	
Uranotaenia sapphirina	4	12	
Passaic	86	1874	2
Anopheles punctipennis	2	4	
Culex spp.	61	1653	2
Ochlerotatus japonicus	22	208	
Ochlerotatus triseriatus	1	9	
Salem	192	3408	0
Aedes vexans	7	20	
Anopheles bradleyi	2	2	
Anopheles punctipennis	10	65	
Anopheles quadrimaculatus	12	148	
Anopheles walkeri	3	15	
Coquillettidia perturbans	4	6	
Culex erraticus	1	1	
Culex restuans	14	592	
Culex spp.	40	372	
Culex territans	4	16	
Culiseta melanura	66	1851	
Ochlerotatus cantator	4	37	
Ochlerotatus japonicus	13	100	
Ochlerotatus triseriatus	1	1	
Psorophora ciliata	1	3	
Psorophora columbiae	9	178	
Psorophora ferox	1	1	

Somerset	161	2999	2
Aedes vexans	5	26	
Anopheles punctipennis	5	10	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	2	6	
Culex pipiens	5	104	
Culex restuans	10	291	
Culex salinarius	1	2	
Culex spp.	72	2124	2
Culex territans	1	1	
Culiseta melanura	1	1	
Ochlerotatus canadensis	4	54	
Ochlerotatus japonicus	32	290	
Ochlerotatus triseriatus	14	55	
Ochlerotatus trivittatus	7	33	
Psorophora ciliata	1	1	
Sussex	207	2500	1
Aedes cinereus	2	11	
Aedes vexans	10	156	
Anopheles barberi	1	1	
Anopheles punctipennis	16	143	
Anopheles quadrimaculatus	7	37	
Anopheles walkeri	5	152	
Coquillettidia perturbans	17	416	
Culex pipiens	5	10	
Culex restuans	12	306	
Culex salinarius	6	26	
Culex spp.	42	666	1
Culex territans	4	9	
Culiseta melanura	3	4	
Culiseta morsitans	1	1	
Ochlerotatus canadensis	7	27	
Ochlerotatus japonicus	43	339	
Ochlerotatus stimulans	5	29	
Ochlerotatus triseriatus	13	57	
Ochlerotatus trivittatus	3	101	
Uranotaenia sapphirina	5	9	
Union	47	1549	1
Aedes albopictus	2	4	
Culex spp.	35	1522	1
Ochlerotatus japonicus	6	18	
Ochlerotatus triseriatus	2	3	
Ochlerotatus trivittatus	1	1	
Psorophora discolor	1	1	

Warren	147	3590	0
Aedes vexans	6	10	
Anopheles barberi	1	2	
Anopheles punctipennis	9	12	
Anopheles quadrimaculatus	1	7	
Culex restuans	1	3	
Culex spp.	80	3143	
Ochlerotatus canadensis	1	75	
Ochlerotatus cantator	1	50	
Ochlerotatus excrucians	1	1	
Ochlerotatus japonicus	33	258	
Ochlerotatus punctor	1	4	
Ochlerotatus triseriatus	10	23	
Ochlerotatus trivittatus	2	2	
Grand Total	3625	73676	88

