

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 5

Culiseta melanura Monitor June 28 – July 4, 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.)	3.7	2.2	500	24	0	Waterford (Camden Co.)	2.3	0.1	811	25	0
Corbin City (Atlantic Co.)	0.8	2.6	317	19	0	Centerton (Salem Co.)	2.2	2.0	650	25	0
Dennisville (Cape May Co.)	4.4	1.2	954	31	0	Turkey Swamp (Monmouth Co.)	0.1	2.3	209	19	0

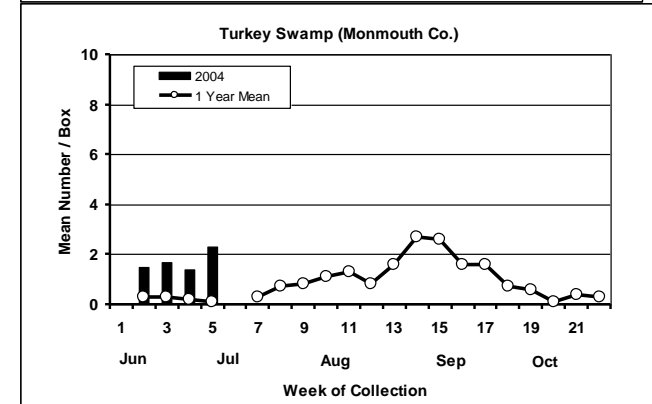
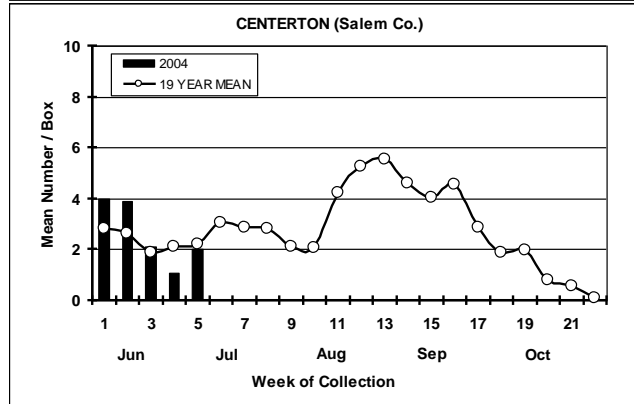
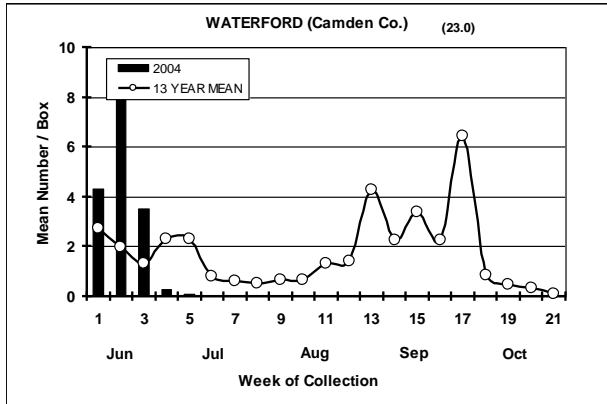
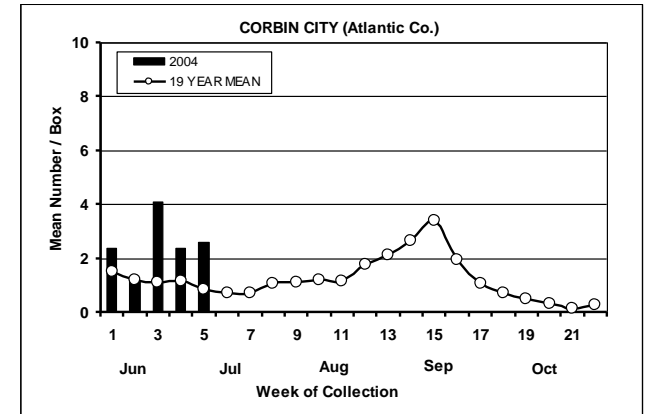
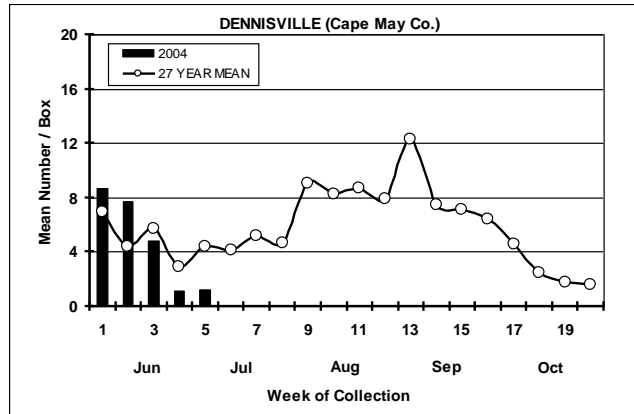
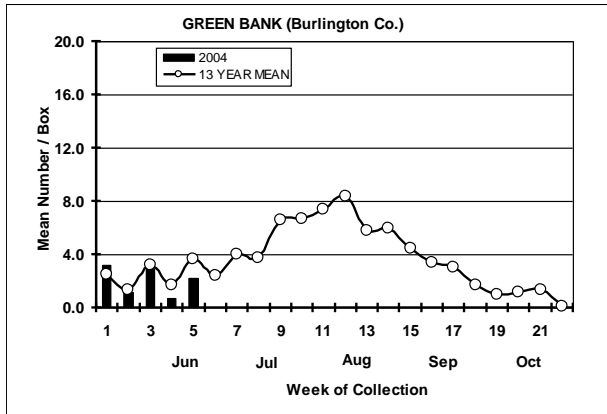
Collections submitted to PHEL for West Nile Virus testing

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	50	73	22	186	198	45	42	5	28	4	73	8	137	871
Total Specimens	710	1,288	166	7,248	4,284	738	949	10	130	84	447	24	2,215	18,293
No. Positive Pools	0	1	0	0	0	0	0	0	0	0	0	0	0	1

Remarks: *Culiseta melanura* populations remain low at Dennisville and Waterford. The numbers collected from resting boxes, however, are still above historic means at the Corbin City and Turkey Swamp study sites. *Culiseta melanura* larvae that hatched from eggs deposited by females during May should be pupating over the next week or two. This provides the influx of nullipars that is needed for amplification of EEE virus in local bird populations. Transmission to horses and humans follows when bridge vector populations make contact with EEE by feeding on viremic birds that participate in the amplification cycle. Submission of specimens for WNV testing has been voluntarily lower than usual this spring because of fiscal constraints. Agencies have been advised to increase submissions to normal levels now that the new fiscal year budget is in effect.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-05-04
Supported by State funds and funding by the NJ State Mosquito Control Commission.
Summary Prepared by: Wayne J. Crans, Rutgers University

Culiseta melanura Population Graphs



Remarks: Note from historic data that population levels of *Cs. melanura* are normally fairly low at this time of year. The month of July produces minor emergences followed by the largest influx of specimens through the month of August into September.

Mosquito Species Submitted for West Nile Virus Testing through July 2, 2004

Species	Pools	Mosquitoes	Positives
Aedes albopictus	8	24	
Aedes cinereus	3	47	
Aedes vexans	45	738	
Anopheles bradleyi	1	2	
Anopheles punctipennis	31	244	
Anopheles quadrimaculatus	19	581	
Coquilletidia perturbans	26	364	
Culex pipiens	50	710	
Culex restuans	73	1288	1
Culex salinarius	22	166	
Culex spp.	186	7248	
Culex territans	8	26	
Culiseta melanura	198	4284	
Ochlerotatus abserratus	1	9	
Ochlerotatus canadensis	42	949	
Ochlerotatus cantator	25	846	
Ochlerotatus excrucians	2	3	
Ochlerotatus grossbecki	5	16	
Ochlerotatus japonicus	73	447	
Ochlerotatus mitchellae	1	1	
Ochlerotatus sollicitans	4	84	
Ochlerotatus sticticus	3	49	
Ochlerotatus stimulans	3	13	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	28	130	
Ochlerotatus trivittatus	5	10	
Orthopodomyia signifera	1	2	
Psorophora columbiae	5	8	
Psorophora ferox	1	1	
Uranotaenia sapphirina	1	2	
Grand Total	871	18293	1

Submissions by County through July 2, 2004

County	Species	Pools	Mosquitoes	Positives
Atlantic		141	3989	0
	Aedes albopictus	3	12	
	Aedes cinereus	1	35	
	Aedes vexans	12	357	
	Anopheles bradleyi	1	2	
	Anopheles punctipennis	2	5	
	Anopheles quadrimaculatus	1	2	
	Coquillettidia perturbans	4	57	
	Culex pipiens	2	5	
	Culex restuans	6	113	
	Culex salinarius	2	32	
	Culex spp.	33	1358	
	Culiseta melanura	34	816	
	Ochlerotatus canadensis	14	322	
	Ochlerotatus cantator	18	777	
	Ochlerotatus japonicus	4	22	
	Ochlerotatus triseriatus	3	73	
	Ochlerotatus trivittatus	1	1	
Burlington		59	707	0
	Aedes cinereus	1	3	
	Aedes vexans	3	21	
	Anopheles punctipennis	1	2	
	Coquillettidia perturbans	3	26	
	Culex pipiens	1	1	
	Culex salinarius	1	1	
	Culex spp.	7	76	
	Culiseta melanura	28	525	
	Ochlerotatus abserratus	1	9	
	Ochlerotatus canadensis	1	14	
	Ochlerotatus grossbecki	1	6	
	Ochlerotatus japonicus	5	8	
	Ochlerotatus mitchellae	1	1	
	Ochlerotatus sticticus	1	6	
	Ochlerotatus stimulans	1	4	
	Ochlerotatus triseriatus	1	1	
	Ochlerotatus trivittatus	1	1	
	Orthopodomyia signifera	1	2	
Camden		30	843	0
	Anopheles punctipennis	4	31	
	Anopheles quadrimaculatus	1	1	
	Culiseta melanura	25	811	

Cape May	102	1912	1
Aedes albopictus	1	2	
Anopheles punctipennis	1	2	
Anopheles quadrimaculatus	10	555	
Coquillettidia perturbans	1	1	
Culex pipiens	15	154	
Culex restuans	20	155	1
Culex salinarius	2	11	
Culex territans	4	19	
Culiseta melanura	40	994	
Ochlerotatus cantator	3	9	
Ochlerotatus japonicus	2	4	
Ochlerotatus sollicitans	1	1	
Ochlerotatus triseriatus	2	5	
Cumberland	41	169	0
Aedes vexans	7	26	
Anopheles punctipennis	1	2	
Culex pipiens	5	27	
Culex restuans	5	26	
Culex salinarius	5	47	
Culiseta melanura	3	5	
Ochlerotatus canadensis	4	11	
Ochlerotatus cantator	2	2	
Ochlerotatus japonicus	5	16	
Ochlerotatus triseriatus	1	1	
Ochlerotatus trivittatus	1	1	
Psorophora columbiae	2	5	
Essex	14	283	0
Culex spp.	11	262	
Ochlerotatus japonicus	2	19	
Ochlerotatus triseriatus	1	2	
Gloucester	25	612	0
Aedes albopictus	1	1	
Aedes vexans	2	7	
Culex pipiens	5	224	
Culex restuans	1	37	
Culex salinarius	1	20	
Culex spp.	6	293	
Ochlerotatus japonicus	5	25	
Ochlerotatus triseriatus	3	4	
Psorophora ferox	1	1	

Hunterdon	30	1386	0
Culex spp.	28	1380	
Ochlerotatus japonicus	2	6	
Mercer	55	1018	0
Aedes albopictus	2	4	
Aedes vexans	4	119	
Anopheles punctipennis	3	44	
Coquillettidia perturbans	1	7	
Culex pipiens	10	94	
Culex restuans	14	337	
Culex salinarius	1	2	
Culex spp.	1	12	
Ochlerotatus canadensis	6	331	
Ochlerotatus excrucians	2	3	
Ochlerotatus japonicus	6	13	
Ochlerotatus sticticus	1	40	
Ochlerotatus triseriatus	2	5	
Ochlerotatus trivittatus	2	7	
Monmouth	67	680	0
Aedes vexans	5	72	
Anopheles punctipennis	4	34	
Anopheles quadrimaculatus	3	8	
Coquillettidia perturbans	3	7	
Culex pipiens	4	90	
Culex restuans	7	127	
Culex salinarius	2	15	
Culex spp.	3	30	
Culiseta melanura	22	212	
Ochlerotatus canadensis	3	57	
Ochlerotatus cantator	1	8	
Ochlerotatus japonicus	5	8	
Ochlerotatus sticticus	1	3	
Ochlerotatus triseriatus	3	8	
Psorophora columbiae	1	1	
Morris	40	1864	0
Aedes vexans	1	1	
Anopheles punctipennis	2	5	
Coquillettidia perturbans	2	2	
Culex pipiens	2	6	
Culex restuans	1	1	
Culex spp.	28	1832	
Ochlerotatus japonicus	2	8	
Ochlerotatus triseriatus	2	9	

Ocean	94	1365	0
Aedes albopictus	1	5	
Aedes vexans	6	109	
Anopheles punctipennis	4	51	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	5	142	
Culex pipiens	4	66	
Culex restuans	4	80	
Culex salinarius	6	35	
Culex spp.	17	287	
Culex territans	2	5	
Culiseta melanura	17	266	
Ochlerotatus canadensis	7	179	
Ochlerotatus grossbecki	4	10	
Ochlerotatus japonicus	7	32	
Ochlerotatus sollicitans	3	83	
Ochlerotatus thibaulti	1	1	
Ochlerotatus triseriatus	5	13	
Salem	44	909	0
Anopheles punctipennis	3	7	
Anopheles quadrimaculatus	2	9	
Coquillettidia perturbans	1	1	
Culex restuans	5	149	
Culiseta melanura	25	650	
Ochlerotatus japonicus	6	91	
Psorophora columbiae	2	2	
Somerset	47	943	0
Aedes vexans	2	19	
Anopheles punctipennis	2	5	
Coquillettidia perturbans	2	6	
Culex pipiens	2	43	
Culex restuans	6	222	
Culex salinarius	1	2	
Culex spp.	19	569	
Culiseta melanura	1	1	
Ochlerotatus canadensis	3	19	
Ochlerotatus japonicus	7	54	
Ochlerotatus triseriatus	2	3	
Sussex	34	323	0
Aedes cinereus	1	9	
Aedes vexans	2	4	
Anopheles punctipennis	4	56	
Anopheles quadrimaculatus	1	5	
Coquillettidia perturbans	4	115	

	Culex restuans	4	41	
	Culex salinarius	1	1	
	Culex territans	2	2	
	Culiseta melanura	3	4	
	Ochlerotatus canadensis	4	16	
	Ochlerotatus japonicus	4	55	
	Ochlerotatus stimulans	2	9	
	Ochlerotatus triseriatus	1	4	
	Uranotaenia sapphirina	1	2	
Warren		48	1290	0
	Aedes vexans	1	3	
	Culex spp.	33	1149	
	Ochlerotatus cantator	1	50	
	Ochlerotatus japonicus	11	86	
	Ochlerotatus triseriatus	2	2	
Grand Total		871	18293	1