

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 13

Culiseta melanura Monitor

August 26 – September 1, 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.)	5.2	0.6	350	40	0	Waterford (Camden Co.)	3.8	1.5	96	18	0
Corbin City (Atlantic Co.)	2.1	1.0	356	47	0	Centerton (Salem Co.)	5.2	1.2	383	42	0
Dennisville (Cape May Co.)	11.6	6.4	1754	63	0	Turkey Swamp (Monmouth Co.)	2.2	1.3	71	48	0

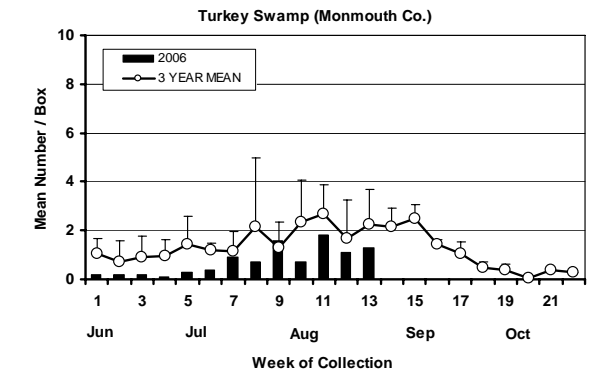
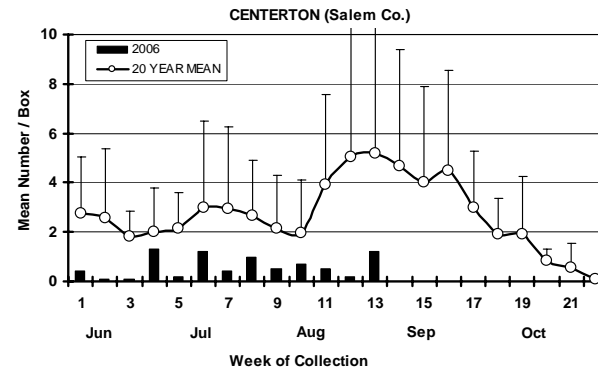
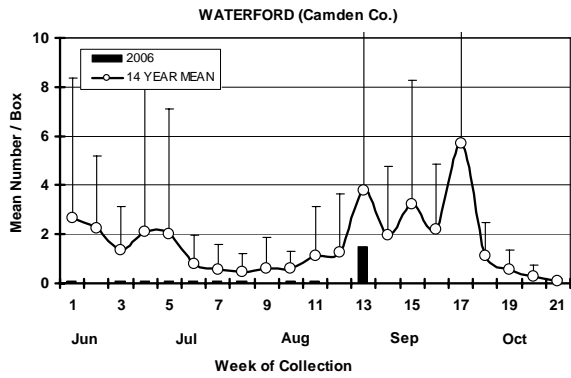
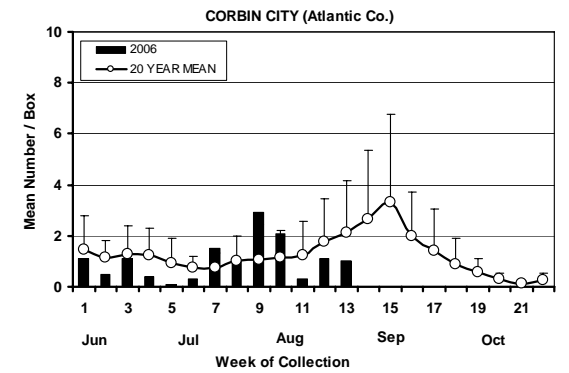
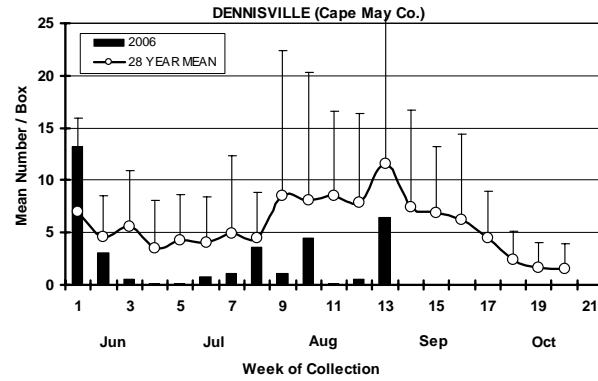
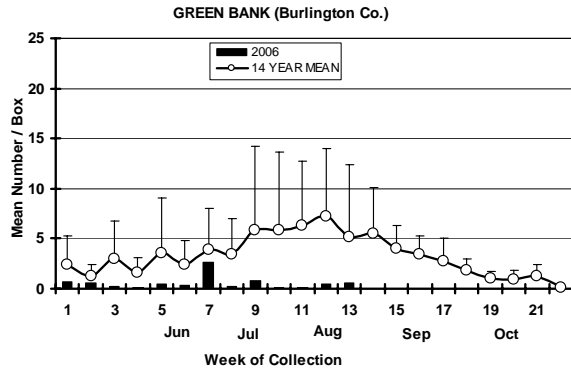
Collections submitted to PHEL for West Nile Virus testing

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	224	90	86	1,257	266	84	13	40	93	17	188	203	386	2,947
Total Specimens	6,365	1,637	2,258	54,393	3,458	1,491	241	937	367	301	945	1,645	5,564	79,602
No. Positive Pools	36	6	0	128	0	0	0	0	0	0	0	1	0	171

Remarks: *Culiseta melanura* populations remain below long-term averages but show evidence for late season recovery at several of the sites being monitored for EEE in New Jersey. The greatest increase was at the Waterford site where *Cs. melanura* have been difficult to collect all season long. This week's collection of 76 specimens was nearly 4 times higher than the total number of *Cs. melanura* collected from Waterford since May. Evidence for a moderate influx of newly emerged adults is apparent in this week's data set for several of the other sites being monitored for EEE activity. WNV amplification by *Culex* mosquitoes continues over a wide geographic area with 16 of New Jersey's 21 counties reporting positive pools. This year's overall Minimum Infection Rate (2.15) is well above that reported for Week 13 last year (1.38). Infection rates in *Culex spp.* have been highest in collections made from urbanized areas. Single human cases of WNV have been confirmed from Union and Essex counties, to date.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-13-06 Supported by State funds and funding by the NJ State Mosquito Control Commission.

Culiseta melanura Population Graphs



Mosquito Species Submitted for West Nile Virus Testing through September 1, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	203	1645	1
<i>Aedes cinereus</i>	1	1	
<i>Aedes vexans</i>	84	1491	
<i>Anopheles barberi</i>	3	3	
<i>Anopheles bradleyi</i>	23	209	
<i>Anopheles crucians</i>	1	1	
<i>Anopheles punctipennis</i>	62	284	
<i>Anopheles quadrimaculatus</i>	78	2599	
<i>Anopheles walkeri</i>	3	20	
<i>Coquillettidia perturbans</i>	42	217	
<i>Culex erraticus</i>	50	749	
<i>Culex pipiens</i>	224	6365	36
<i>Culex restuans</i>	90	1637	6
<i>Culex salinarius</i>	86	2258	
<i>Culex spp.</i>	1257	54393	128
<i>Culex territans</i>	22	60	
<i>Culiseta melanura</i>	266	3458	
<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>	188	945	
<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>	93	367	
<i>Ochlerotatus trivittatus</i>	40	937	
<i>Orthopodomyia signifera</i>	1	3	
<i>Psorophora ciliata</i>	1	1	
<i>Psorophora columbiae</i>	17	141	
<i>Psorophora ferox</i>	26	505	
<i>Psorophora howardii</i>	1	3	
<i>Uranotaenia sapphirina</i>	10	231	
Grand Total	2947	79602	171

Submission by County through September 1, 2006

County	Species	Pools	Mosquitoes	Positives
Atlantic		175	3816	0
	Aedes albopictus	12	166	
	Aedes vexans	11	316	
	Anopheles bradleyi	4	27	
	Anopheles punctipennis	2	6	
	Coquillettidia perturbans	4	34	
	Culex erraticus	14	594	
	Culex restuans	3	10	
	Culex salinarius	11	230	
	Culex spp.	43	1710	
	Culex territans	3	5	
	Culiseta melanura	49	371	
	Ochlerotatus atlanticus	4	115	
	Ochlerotatus canadensis	3	57	
	Ochlerotatus cantator	1	11	
	Ochlerotatus japonicus	1	2	
	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		227	12596	39
	Aedes albopictus	14	210	1
	Aedes cinereus	1	1	
	Aedes vexans	13	479	
	Anopheles punctipennis	4	7	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	4	7	
	Culex pipiens	28	1483	7
	Culex restuans	9	187	3
	Culex salinarius	27	1600	
	Culex spp.	115	8590	28
	Culex territans	1	1	
	Ochlerotatus triseriatus	1	3	
	Ochlerotatus trivittatus	3	4	
	Orthopodomyia signifera	1	3	
	Psorophora columbiae	3	17	
	Psorophora ferox	1	2	
Burlington		123	792	1
	Aedes albopictus	22	111	

	<i>Aedes vexans</i>	4	31	
	<i>Anopheles barberi</i>	1	1	
	<i>Anopheles crucians</i>	1	1	
	<i>Anopheles punctipennis</i>	2	4	
	<i>Anopheles quadrimaculatus</i>	5	7	
	<i>Coquillettidia perturbans</i>	4	7	
	<i>Culex erraticus</i>	6	30	
	<i>Culex pipiens</i>	3	11	
	<i>Culex salinarius</i>	1	1	
	<i>Culex spp.</i>	15	160	1
	<i>Culex territans</i>	1	3	
	<i>Culiseta melanura</i>	41	352	
	<i>Ochlerotatus atlanticus</i>	1	1	
	<i>Ochlerotatus canadensis</i>	2	23	
	<i>Ochlerotatus japonicus</i>	6	28	
	<i>Ochlerotatus stimulans</i>	2	2	
	<i>Ochlerotatus triseriatus</i>	2	2	
	<i>Ochlerotatus trivittatus</i>	1	5	
	<i>Psorophora columbiae</i>	1	9	
	<i>Psorophora ferox</i>	2	3	
Camden		79	1474	3
	<i>Aedes albopictus</i>	10	42	
	<i>Anopheles punctipennis</i>	4	7	
	<i>Anopheles quadrimaculatus</i>	5	8	
	<i>Coquillettidia perturbans</i>	3	3	
	<i>Culex restuans</i>	2	2	
	<i>Culex spp.</i>	33	1305	3
	<i>Culiseta melanura</i>	18	96	
	<i>Ochlerotatus japonicus</i>	3	6	
	<i>Ochlerotatus triseriatus</i>	1	5	
Cape May		144	4434	0
	<i>Aedes albopictus</i>	1	3	
	<i>Anopheles bradleyi</i>	11	155	
	<i>Anopheles punctipennis</i>	2	3	
	<i>Anopheles quadrimaculatus</i>	40	2346	
	<i>Coquillettidia perturbans</i>	2	15	
	<i>Culex erraticus</i>	6	51	
	<i>Culex pipiens</i>	3	9	
	<i>Culex restuans</i>	4	36	
	<i>Culex salinarius</i>	7	30	
	<i>Culex territans</i>	1	4	
	<i>Culiseta melanura</i>	63	1778	
	<i>Ochlerotatus atlanticus</i>	1	1	
	<i>Ochlerotatus cantator</i>	2	2	
	<i>Psorophora ferox</i>	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	5
Aedes albopictus	10	43	
Aedes vexans	7	69	
Anopheles punctipennis	1	1	
Anopheles quadrimaculatus	1	1	
Coquillettidia perturbans	1	4	
Culex spp.	39	1248	5
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	156	2033	1
Aedes albopictus	12	38	
Aedes vexans	1	2	
Anopheles bradleyi	2	10	
Anopheles punctipennis	1	1	
Anopheles walkeri	2	9	
Coquillettidia perturbans	4	14	
Culex pipiens	109	1909	1
Culex restuans	1	2	
Culex salinarius	1	2	
Culex territans	1	1	
Culiseta melanura	2	3	
Ochlerotatus canadensis	2	4	
Ochlerotatus japonicus	15	20	
Psorophora ciliata	1	1	
Psorophora columbiae	1	16	
Psorophora ferox	1	1	

Hudson	182	7763	37
Aedes albopictus	8	67	
Aedes vexans	1	6	
Coquillettidia perturbans	1	18	
Culex pipiens	19	1232	8
Culex salinarius	3	197	
Culex spp.	150	6243	29
Hunterdon	161	6410	7
Aedes albopictus	1	2	
Aedes vexans	1	3	
Anopheles barberi	1	1	
Anopheles punctipennis	8	107	
Anopheles quadrimaculatus	3	12	
Culex erraticus	1	1	
Culex pipiens	4	42	
Culex restuans	9	459	1
Culex salinarius	2	2	
Culex spp.	116	5718	6
Culex territans	2	2	
Ochlerotatus japonicus	5	43	
Ochlerotatus sticticus	1	1	
Ochlerotatus triseriatus	2	2	
Ochlerotatus trivittatus	4	14	
Uranotaenia sapphirina	1	1	
Mercer	217	4409	26
Aedes albopictus	32	182	
Aedes vexans	8	131	
Anopheles bradleyi	1	2	
Anopheles punctipennis	3	5	
Anopheles quadrimaculatus	2	10	
Coquillettidia perturbans	2	3	
Culex erraticus	5	27	
Culex pipiens	53	1668	20
Culex restuans	30	640	2
Culex salinarius	9	76	
Culex spp.	30	1392	4
Culex territans	2	2	
Ochlerotatus atropalpus	1	2	
Ochlerotatus canadensis	3	147	
Ochlerotatus japonicus	16	32	
Ochlerotatus sticticus	1	3	
Ochlerotatus triseriatus	7	23	
Ochlerotatus trivittatus	5	22	
Psorophora columbiae	5	40	
Psorophora ferox	2	2	

Middlesex		144	6496	12
	Aedes albopictus	7	51	
	Culex spp.	127	6409	12
	Ochlerotatus japonicus	10	36	
Monmouth		232	2209	2
	Aedes albopictus	27	121	
	Aedes vexans	9	33	
	Anopheles punctipennis	9	17	
	Anopheles quadrimaculatus	2	2	
	Coquillettidia perturbans	2	3	
	Culex restuans	5	14	
	Culex spp.	67	1081	2
	Culex territans	7	34	
	Culiseta melanura	48	471	
	Ochlerotatus atlanticus	2	13	
	Ochlerotatus canadensis	3	10	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	15	96	
	Ochlerotatus sollicitans	12	237	
	Ochlerotatus taeniorhynchus	4	39	
	Ochlerotatus triseriatus	13	26	
	Ochlerotatus trivittatus	3	5	
	Psorophora columbiae	1	1	
	Psorophora ferox	2	5	
Morris		120	2240	5
	Anopheles punctipennis	1	1	
	Culex spp.	76	1951	5
	Ochlerotatus japonicus	24	174	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	18	113	
Ocean		120	1241	1
	Aedes albopictus	34	555	
	Aedes vexans	3	5	
	Culex erraticus	1	1	
	Culex restuans	4	13	
	Culex salinarius	15	48	
	Culex spp.	41	529	1
	Culex territans	1	4	
	Culiseta melanura	1	1	
	Ochlerotatus japonicus	10	36	
	Ochlerotatus sollicitans	1	4	
	Ochlerotatus triseriatus	8	24	
	Psorophora ferox	1	21	

Passaic		79	2881	12
	Aedes albopictus	1	13	
	Culex spp.	76	2818	12
	Ochlerotatus japonicus	2	50	
Salem		160	1313	1
	Aedes albopictus	3	4	
	Aedes vexans	7	23	
	Anopheles bradleyi	2	2	
	Anopheles punctipennis	7	69	
	Anopheles quadrimaculatus	11	192	
	Coquillettidia perturbans	6	10	
	Culex erraticus	12	40	
	Culex pipiens	3	7	
	Culex restuans	17	165	
	Culex salinarius	5	30	
	Culex spp.	31	369	1
	Culex territans	2	3	
	Culiseta melanura	44	386	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	2	2	
	Psorophora columbiae	5	8	
Somerset		101	3402	4
	Anopheles punctipennis	2	4	
	Anopheles quadrimaculatus	2	5	
	Culex spp.	65	3027	4
	Ochlerotatus japonicus	15	100	
	Ochlerotatus triseriatus	12	70	
	Ochlerotatus trivittatus	3	129	
	Psorophora ferox	2	67	
Sussex		203	6976	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	4	41	
	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	15
	Aedes albopictus	9	37	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	4	
	Culex spp.	44	1661	15
	Ochlerotatus japonicus	7	22	
	Ochlerotatus punctor	1	1	
	Ochlerotatus triseriatus	1	2	
Warren		144	5516	0
	Aedes vexans	3	6	
	Anopheles punctipennis	6	17	
	Anopheles quadrimaculatus	2	2	
	Culex erraticus	1	1	
	Culex salinarius	1	1	
	Culex spp.	91	5358	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	26	103	
	Ochlerotatus triseriatus	7	12	
	Ochlerotatus trivittatus	4	13	
	Uranotaenia sapphirina	2	2	
Grand Total		2947	79602	171