

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 10

Culiseta melanura Monitor August 1 - 7, 2005

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.)	6.3	0.1	499	35	1	Waterford (Camden Co.)	0.6	0	90	12	0
Corbin City (Atlantic Co.)	1.2	0.7	235	32	0	Centerton (Salem Co.)	2.1	0.1	293	33	0
Dennisville (Cape May Co.)	8.0	9.6	3,153	82	0	Turkey Swamp (Monmouth Co.)	1.1	4.3	543	40	0

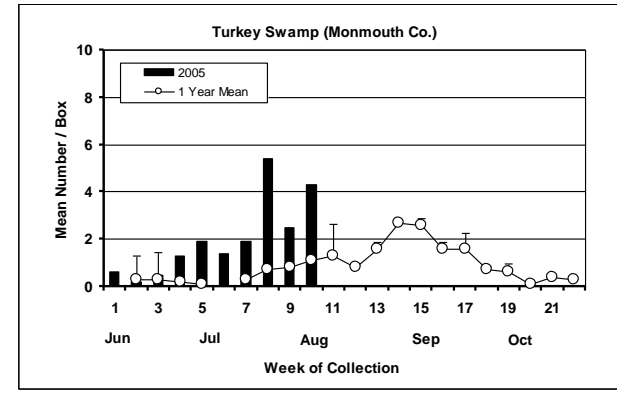
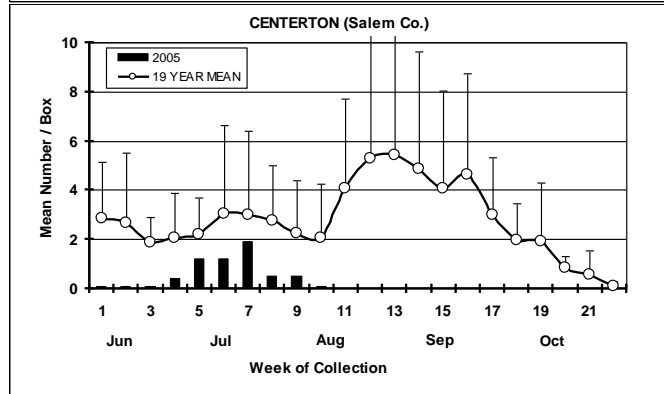
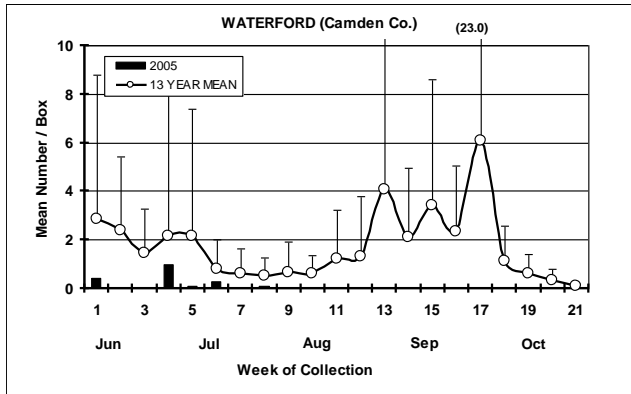
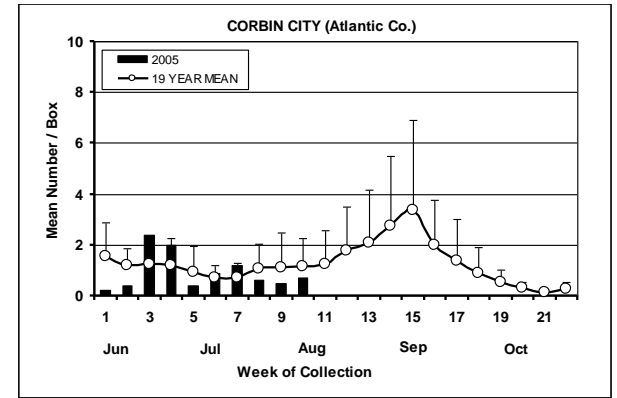
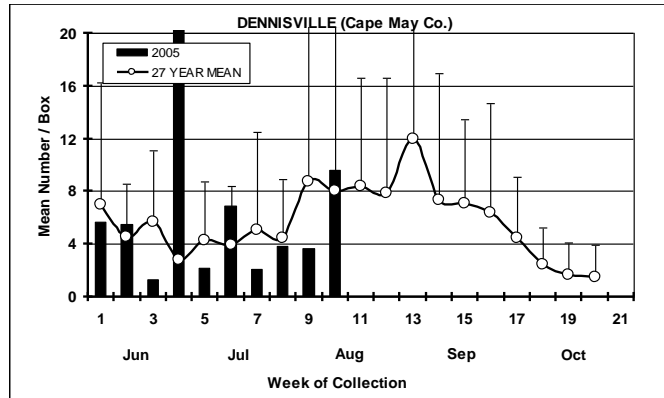
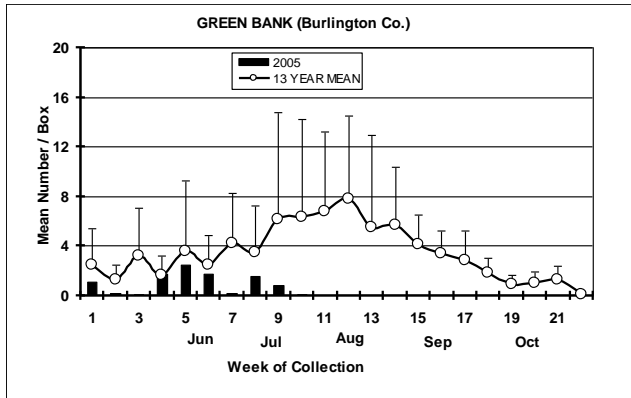
Collections submitted to PHEL for West Nile Virus testing

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	171	100	36	823	317	51	8	5	65	19	213	55	198	2,061
Total Specimens	5,697	1,542	571	33,998	5,852	894	106	119	362	547	1,355	368	2,360	53,771
No. Positive Pools	7	1	0	15	0	0	0	0	0	0	0	0	0	23
MFIR	1.2	0.7	0	0.4	0	0	0	0	0	0	0	0	0	0.4

Remarks: The first indication of EEE in southern New Jersey this season came from a positive pool of *Cs. melanura* collected July 26, at the Green Bank resting box site in Burlington Co. Green Bank populations have been low all year but the Mullica River drainage has long served as an early indicator for virus amplification in the southern portion of the state. Experience dictates that virus will now be spread from numerous small amplification foci by young of the year birds and will probably appear at other sites before the season is over. EEE has been very active in the northeast this year with evidence of amplification as far north as New Hampshire. An equine case in Nassau Co. on Long Island is the first evidence that the virus is being picked up by bridge vector populations. Evidence for WNV is largely limited to *Culex* mosquitoes collected from areas of Bergen, Middlesex and Mercer counties. The pattern is consistent with data from previous years where WNV is confined to several distinct urban foci in the state before spreading progressively as the season advances.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
August 5, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	55	368	
Ae. cinereus	2	7	
Ae. vexans	51	894	
An. barberi	2	2	
An. bradleyi	4	7	
An. crucians	1	2	
An. punctipennis	30	208	
An. quadrimaculatus	21	209	
Cq. perturbans	48	1060	
Cs. melanura	317	5852	
Cs. morsitans	1	4	
Cx. erraticus	5	67	
Cx. mix	823	33998	15
Cx. pipiens	171	5697	7
Cx. restuans	100	1542	1
Cx. salinarius	36	571	
Cx. territans	2	11	
Oc. abserratus	1	11	
Oc. atlanticus	2	12	
Oc. atropalpus	1	7	
Oc. canadensis	8	106	
Oc. cantator	15	36	
Oc. grossbecki	6	11	
Oc. japonicus	213	1355	
Oc. mitchellae	1	1	
Oc. sollicitans	19	547	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	10	184	
Oc. triseriatus	65	362	
Oc. trivittatus	5	119	
Or. signifera	3	4	
Ps. ciliata	6	23	
Ps. columbiae	13	167	
Ps. ferox	11	243	
Ps. howardii	2	15	
Ur. sapphirina	1	12	
Grand Total	2061	53771	23

Submissions by County through August 5, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		122	3393	1
	Ae. albopictus	10	179	
	Ae. vexans	3	99	
	Cq. perturbans	11	372	
	Cs. melanura	35	273	
	Cx. mix	47	2206	1
	Oc. atlanticus	1	7	
	Oc. cantator	1	5	
	Oc. japonicus	4	30	
	Oc. sticticus	1	5	
	Oc. triseriatus	4	39	
	Or. signifera	1	2	
	Ps. ferox	4	176	
Bergen		107	6367	9
	Ae. vexans	5	22	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	74	5550	9
	Cx. pipiens	10	557	
	Cx. restuans	2	46	
	Cx. salinarius	5	86	
	Oc. cantator	1	2	
	Oc. japonicus	2	24	
	Oc. triseriatus	2	2	
Burlington		127	1379	0
	Ae. albopictus	8	59	
	Ae. cinereus	2	7	
	Ae. vexans	11	363	
	An. barberi	1	1	
	An. crucians	1	2	
	An. punctipennis	4	22	
	An. quadrimaculatus	3	4	
	Cq. perturbans	3	8	
	Cs. melanura	36	500	
	Cx. erraticus	1	1	
	Cx. mix	18	164	
	Cx. pipiens	1	2	
	Cx. salinarius	1	3	
	Cx. territans	1	5	
	Oc. abserratus	1	11	
	Oc. atropalpus	1	7	
	Oc. canadensis	1	1	
	Oc. grossbecki	3	8	
	Oc. japonicus	8	40	
	Oc. mitchellae	1	1	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. triseriatus	8	73	
	Oc. trivittatus	1	4	

	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	3	26	
	Ps. ferox	1	9	
	Ps. howardii	1	14	
	Ur. sapphirina	1	12	
Camden		52	748	0
	Ae. albopictus	5	12	
	Ae. vexans	2	39	
	An. punctipennis	2	13	
	An. quadrimaculatus	3	8	
	Cs. melanura	13	92	
	Cx. mix	17	531	
	Oc. japonicus	10	53	
Cape May		195	5806	0
	Ae. albopictus	3	12	
	Ae. vexans	1	8	
	An. bradleyi	1	1	
	An. punctipennis	1	75	
	An. quadrimaculatus	2	123	
	Cq. perturbans	5	117	
	Cs. melanura	106	3935	
	Cx. erraticus	2	51	
	Cx. mix	3	28	
	Cx. pipiens	17	532	
	Cx. restuans	33	532	
	Cx. salinarius	7	123	
	Cx. territans	1	6	
	Oc. cantator	1	2	
	Oc. japonicus	1	3	
	Oc. sollicitans	4	116	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	2	5	
Cumberland		90	280	0
	Ae. albopictus	1	1	
	Ae. vexans	1	1	
	An. bradleyi	2	4	
	An. punctipennis	5	7	
	An. quadrimaculatus	5	7	
	Cq. perturbans	1	1	
	Cs. melanura	45	137	
	Cx. mix	14	69	
	Oc. canadensis	2	2	
	Oc. cantator	3	4	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	4	40	
	Ps. ferox	2	2	
Essex		53	1020	0
	Ae. albopictus	4	12	
	Ae. vexans	5	125	

	An. quadrimaculatus	1	1	
	Cx. mix	35	849	
	Oc. japonicus	6	21	
	Oc. sticticus	1	3	
	Ps. ciliata	1	9	
Gloucester		90	1799	0
	Ae. albopictus	2	2	
	Ae. vexans	1	1	
	An. punctipennis	2	3	
	An. quadrimaculatus	1	1	
	Cx. pipiens	65	1702	
	Oc. japonicus	16	85	
	Oc. triseriatus	3	5	
Hudson		75	2276	0
	Cx. mix	75	2276	
Hunterdon		80	3269	0
	Ae. vexans	2	2	
	An. punctipennis	2	2	
	Cx. mix	64	3121	
	Cx. pipiens	5	73	
	Cx. restuans	5	69	
	Oc. japonicus	2	2	
Mercer		157	4395	9
	Ae. albopictus	10	21	
	Ae. vexans	5	108	
	An. bradleyi	1	2	
	An. punctipennis	2	10	
	An. quadrimaculatus	1	3	
	Cq. perturbans	1	38	
	Cs. melanura	2	3	
	Cx. erraticus	1	14	
	Cx. mix	18	987	1
	Cx. pipiens	53	2509	7
	Cx. restuans	35	380	1
	Cx. salinarius	4	90	
	Oc. japonicus	18	83	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	2	86	
	Ps. ferox	1	50	
	Ps. howardii	1	1	
Middlesex		124	4251	3
	Ae. albopictus	4	31	
	Ae. vexans	2	17	
	Cq. perturbans	1	75	
	Cx. mix	80	3644	3
	Cx. pipiens	7	79	
	Cx. restuans	6	235	
	Cx. salinarius	2	44	
	Oc. japonicus	10	52	
	Oc. sollicitans	1	4	

	Oc. triseriatus	5	20	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	4	48	
Monmouth		159	2418	0
	Ae. albopictus	4	8	
	Ae. vexans	9	66	
	An. barberi	1	1	
	An. punctipennis	1	2	
	Cq. perturbans	1	2	
	Cs. melanura	40	543	
	Cx. mix	50	1289	
	Cx. pipiens	4	34	
	Cx. restuans	4	11	
	Cx. salinarius	2	3	
	Oc. canadensis	1	4	
	Oc. cantator	8	22	
	Oc. japonicus	12	32	
	Oc. sollicitans	10	323	
	Oc. taeniorhynchus	1	7	
	Oc. triseriatus	10	69	
	Ps. columbiae	1	2	
Morris		75	1876	0
	Ae. vexans	2	17	
	Cq. perturbans	2	5	
	Cx. mix	38	1622	
	Oc. japonicus	24	180	
	Oc. triseriatus	8	48	
	Ps. ferox	1	4	
Ocean		114	3831	1
	Ae. albopictus	3	30	
	Cq. perturbans	1	1	
	Cs. melanura	3	4	
	Cs. morsitans	1	4	
	Cx. mix	66	3218	1
	Cx. restuans	6	80	
	Cx. salinarius	15	222	
	Oc. atlanticus	1	5	
	Oc. canadensis	2	76	
	Oc. cantator	1	1	
	Oc. japonicus	12	87	
	Oc. sollicitans	3	103	
Passaic		60	2382	0
	Cx. mix	45	2108	
	Oc. japonicus	11	253	
	Oc. triseriatus	4	21	
Salem		125	1133	0
	An. punctipennis	3	23	
	An. quadrimaculatus	3	60	
	Cq. perturbans	7	15	
	Cs. melanura	33	293	

	Cx. erraticus	1	1	
	Cx. mix	50	688	
	Cx. restuans	1	1	
	Oc. japonicus	18	36	
	Oc. triseriatus	2	3	
	Ps. ciliata	2	6	
	Ps. columbiae	3	5	
	Ps. ferox	2	2	
Somerset		78	1548	0
	An. punctipennis	2	6	
	Cx. mix	45	1315	
	Oc. japonicus	20	166	
	Oc. triseriatus	11	61	
Sussex		66	1091	0
	Ae. vexans	2	26	
	An. punctipennis	5	41	
	An. quadrimaculatus	1	1	
	Cq. perturbans	11	388	
	Cx. mix	20	418	
	Cx. pipiens	1	11	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	16	77	
	Oc. sticticus	1	16	
	Oc. triseriatus	4	13	
	Oc. trivittatus	2	76	
Union		29	508	0
	Ae. albopictus	1	1	
	An. quadrimaculatus	1	1	
	Cx. mix	3	104	
	Cx. pipiens	8	198	
	Cx. restuans	8	188	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	13	
	Oc. triseriatus	1	2	
Warren		82	3999	0
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Cx. mix	61	3811	
	Oc. japonicus	16	116	
	Oc. triseriatus	1	1	
	Oc. trivittatus	1	35	
Grand Total		2060	53769	23