

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 16

Culiseta melanura Monitor September 12 - 18, 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.)	3.4	3.9	974	56	4	Waterford (Camden Co.)	2.3	0.6	139	23	0
Corbin City (Atlantic Co.)	2.0	2.2	512	55	0	Centerton (Salem Co.)	4.6	2.0	679	58	0
Dennisville (Cape May Co.)	6.4	2.7	4,819	125	1	Turkey Swamp (Monmouth Co.)	1.6	1.5	979	65	4

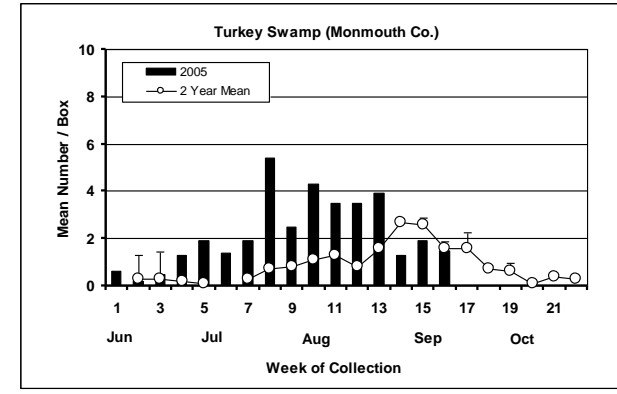
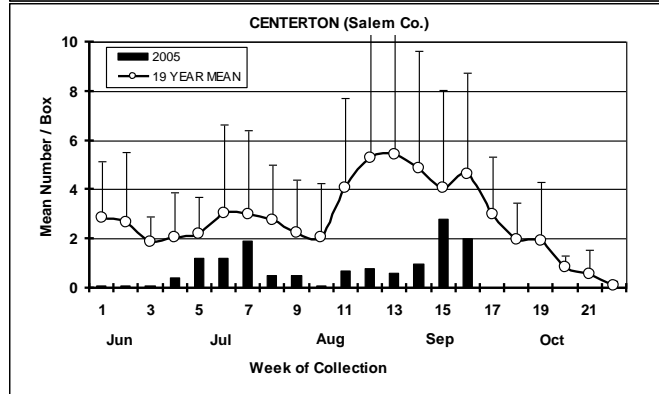
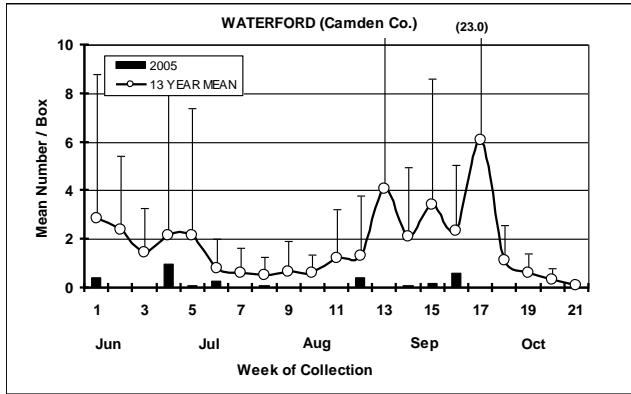
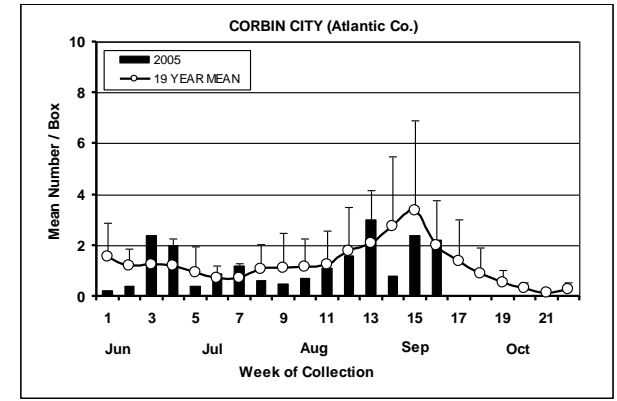
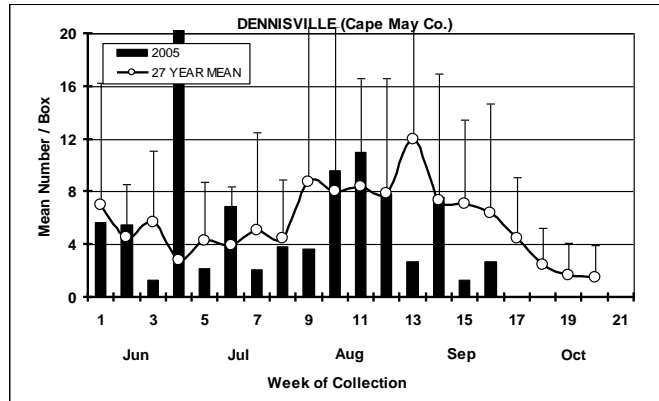
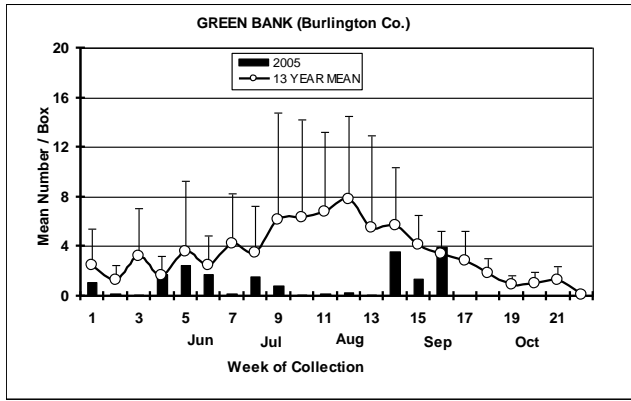
Collections submitted to PHEL for West Nile Virus testing

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	409	160	92	1,591	516	107	30	8	194	58	410	201	532	4,308
Total Specimens	13,375	2,185	1,973	60,065	9,660	1,582	365	123	864	2,017	2,212	1,622	6,225	102,268
No. Positive Pools	57	4	0	146	0	1	0	0	1	0	1	0	0	210

Remarks: Cool night-time temperatures, shortening day length and the continued paucity of floodwater bridge vectors is bringing this year's EEE transmission season to an end. Resting box surveillance data indicate that newly emerged *Cs. melanura* are still appearing at some of the sites, thus, there is still the potential for low levels of virus to appear at sites where it has not yet been detected. Although there is still a possibility for late season equine cases in some areas, *Cs. melanura* populations will drop, EEE levels in local birds will lessen and the potential for virus transfer to bridge vectors will diminish significantly over the next several weeks. WNV remains largely within bird feeding mosquitoes with minimal evidence of transfer to bridge vectors. *Culex* populations are beginning to feed on nectar rather than blood at this time of year as they prepare for hibernation in winter diapause. Gravid traps, however, remain attractive to the parous portion of the *Culex* population and will collect infected mosquitoes in increasing numbers as long as night-time temperatures allow the insects to remain active.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
September 16, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	201	1622	
Ae. cinereus	2	7	
Ae. vexans	107	1582	1
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	29	424	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	97	487	
An. quadrimaculatus	72	1478	
An. walkeri	1	5	
Cq. perturbans	88	1313	
Cs. inornata	2	2	
Cs. melanura	516	9660	
Cs. morsitans	1	4	
Cx. erraticus	38	1083	
Cx. mix	1591	60065	146
Cx. pipiens	409	13375	57
Cx. restuans	160	2185	4
Cx. salinarius	92	1973	
Cx. territans	22	86	
Oc. abserratus	1	11	
Oc. atlanticus	9	23	
Oc. atropalpus	1	7	
Oc. canadensis	30	365	
Oc. cantator	24	54	
Oc. grossbecki	6	11	
Oc. japonicus	410	2212	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	58	2017	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	31	381	
Oc. triseriatus	194	864	1
Oc. trivittatus	8	123	
Or. signifera	5	6	
Ps. ciliata	7	25	
Ps. columbiae	32	330	
Ps. cyanescens	1	1	
Ps. ferox	34	347	
Ps. howardii	4	24	
Ur. sapphirina	7	24	
Grand Total	4308	102268	210

Submissions by County through September 16, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		241	6686	9
	Ae. albopictus	18	344	
	Ae. vexans	7	119	
	Cq. perturbans	13	402	
	Cs. melanura	62	585	
	Cx. erraticus	17	791	
	Cx. mix	73	3127	9
	Cx. salinarius	2	24	
	Cx. territans	1	2	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	9	58	
	Oc. sollicitans	20	937	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	1	8	
	Oc. triseriatus	7	54	
	Or. signifera	1	2	
	Ps. ferox	6	212	
Bergen		287	14720	69
	Ae. albopictus	10	73	
	Ae. vexans	14	210	
	An. punctipennis	4	6	
	Cq. perturbans	3	7	
	Cs. melanura	4	72	
	Cx. mix	144	10785	56
	Cx. pipiens	59	2805	12
	Cx. restuans	11	96	1
	Cx. salinarius	16	591	
	Oc. cantator	1	2	
	Oc. japonicus	9	50	
	Oc. sollicitans	3	3	
	Oc. triseriatus	6	16	
	Ps. ferox	1	1	
	Ur. sapphirina	2	3	
Burlington		244	3520	2
	Ae. albopictus	20	242	
	Ae. cinereus	2	7	
	Ae. vexans	16	564	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	6	57	
	An. quadrimaculatus	7	24	
	Cq. perturbans	10	34	
	Cs. inornata	1	1	
	Cs. melanura	60	1053	
	Cx. erraticus	5	27	
	Cx. mix	29	475	2
	Cx. pipiens	3	92	

Cx. restuans	1	1	
Cx. salinarius	4	74	
Cx. territans	3	7	
Oc. abserratus	1	11	
Oc. atlanticus	1	2	
Oc. atropalpus	1	7	
Oc. canadensis	4	12	
Oc. cantator	1	3	
Oc. grossbecki	3	8	
Oc. japonicus	15	126	
Oc. mitchellae	1	1	
Oc. sollicitans	4	275	
Oc. sticticus	2	9	
Oc. stimulans	2	21	
Oc. taeniorhynchus	1	3	
Oc. triseriatus	15	137	
Oc. trivittatus	1	4	
Or. signifera	1	1	
Ps. ciliata	2	3	
Ps. columbiae	10	145	
Ps. cyanescens	1	1	
Ps. ferox	2	22	
Ps. howardii	3	23	
Ur. sapphirina	1	12	
Camden	93	1096	2
Ae. albopictus	14	82	
Ae. vexans	2	39	
An. punctipennis	4	15	
An. quadrimaculatus	5	10	
Cs. melanura	22	138	
Cx. mix	28	745	2
Cx. pipiens	1	1	
Oc. japonicus	15	64	
Oc. triseriatus	1	1	
Or. signifera	1	1	
Cape May	368	10714	1
Ae. albopictus	16	75	
Ae. vexans	1	8	
An. bradleyi	11	341	
An. punctipennis	1	75	
An. quadrimaculatus	16	981	
Cq. perturbans	10	143	
Cs. melanura	168	5956	
Cx. erraticus	3	52	
Cx. mix	16	525	1
Cx. pipiens	40	963	
Cx. restuans	39	566	
Cx. salinarius	21	643	
Cx. territans	6	52	
Oc. cantator	1	2	
Oc. japonicus	3	9	
Oc. sollicitans	6	169	
Oc. taeniorhynchus	5	137	

	Oc. triseriatus	5	17	
Cumberland		165	759	0
	Ae. albopictus	2	2	
	Ae. vexans	4	6	
	An. bradleyi	4	13	
	An. punctipennis	6	8	
	An. quadrimaculatus	6	8	
	Cq. perturbans	1	1	
	Cs. melanura	55	179	
	Cx. mix	38	285	
	Oc. atlanticus	4	4	
	Oc. canadensis	3	3	
	Oc. cantator	5	6	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	23	226	
	Oc. triseriatus	1	1	
	Ps. ferox	8	12	
Essex		149	2678	10
	Ae. albopictus	16	51	
	Ae. vexans	8	133	
	An. quadrimaculatus	3	4	
	Cq. perturbans	1	1	
	Cx. mix	94	2342	10
	Oc. japonicus	18	120	
	Oc. sticticus	1	3	
	Oc. triseriatus	3	10	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	3	3	
Gloucester		160	3511	3
	Ae. albopictus	11	38	
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	An. quadrimaculatus	2	2	
	Cx. mix	1	45	
	Cx. pipiens	117	3323	3
	Oc. japonicus	18	88	
	Oc. triseriatus	4	6	
	Ps. columbiae	1	1	
Hudson		151	4450	22
	Cx. mix	151	4450	22
Hunterdon		198	7399	2
	Ae. vexans	2	2	
	An. bradleyi	1	10	
	An. punctipennis	6	12	
	An. quadrimaculatus	1	3	
	Cx. mix	141	6690	2
	Cx. pipiens	21	482	

	Cx. restuans	14	171	
	Cx. salinarius	1	4	
	Cx. territans	1	2	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	
Mercer		309	7451	47
	Ae. albopictus	28	270	
	Ae. vexans	17	239	1
	An. bradleyi	1	2	
	An. punctipennis	10	27	
	An. quadrimaculatus	5	13	
	Cq. perturbans	3	72	
	Cs. melanura	3	7	
	Cx. erraticus	4	49	
	Cx. mix	26	1434	5
	Cx. pipiens	100	4207	38
	Cx. restuans	49	684	2
	Cx. salinarius	7	126	
	Oc. japonicus	35	115	1
	Oc. triseriatus	10	42	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
Middlesex		291	7206	20
	Ae. albopictus	16	104	
	Ae. vexans	5	31	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	4	24	
	Cq. perturbans	3	105	
	Cx. mix	143	5637	17
	Cx. pipiens	33	673	2
	Cx. restuans	14	261	
	Cx. salinarius	8	93	
	Cx. territans	1	1	
	Oc. japonicus	28	120	
	Oc. sollicitans	3	8	
	Oc. triseriatus	19	63	1
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
Monmouth		340	4743	5
	Ae. albopictus	17	30	
	Ae. vexans	15	138	
	An. barberi	1	1	
	An. punctipennis	5	8	
	Cq. perturbans	5	9	
	Cs. melanura	70	966	
	Cx. erraticus	1	2	
	Cx. mix	102	2478	3

	Cx. pipiens	17	186	2
	Cx. restuans	6	13	
	Cx. salinarius	2	3	
	Cx. territans	3	11	
	Oc. atlanticus	1	1	
	Oc. canadensis	13	121	
	Oc. cantator	10	27	
	Oc. japonicus	24	114	
	Oc. sollicitans	15	453	
	Oc. taeniorhynchus	1	7	
	Oc. triseriatus	26	150	
	Ps. columbiae	1	2	
	Ps. ferox	5	23	
Morris		150	3185	1
	Ae. vexans	2	17	
	An. punctipennis	3	8	
	An. quadrimaculatus	1	1	
	Cq. perturbans	2	5	
	Cx. mix	83	2706	
	Cx. pipiens	2	115	
	Cx. restuans	2	47	1
	Oc. japonicus	38	217	
	Oc. triseriatus	16	65	
	Ps. ferox	1	4	
Ocean		269	5588	5
	Ae. albopictus	27	301	
	Ae. vexans	6	36	
	An. bradleyi	2	6	
	An. punctipennis	1	1	
	An. quadrimaculatus	1	5	
	Cq. perturbans	8	76	
	Cs. melanura	13	42	
	Cs. morsitans	1	4	
	Cx. mix	93	3785	5
	Cx. pipiens	3	186	
	Cx. restuans	10	92	
	Cx. salinarius	31	415	
	Cx. territans	2	3	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	5	9	
	Oc. japonicus	30	158	
	Oc. sollicitans	6	171	
	Oc. triseriatus	17	57	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
Passaic		132	3866	8
	Ae. albopictus	4	7	
	Ae. vexans	1	4	
	An. punctipennis	3	10	
	Cx. mix	104	3539	8
	Oc. japonicus	16	285	

	Oc. triseriatus	4	21	
Salem		240	2256	0
	An. bradleyi	6	17	
	An. punctipennis	10	122	
	An. quadrimaculatus	13	348	
	Cq. perturbans	8	18	
	Cs. melanura	59	662	
	Cx. erraticus	7	155	
	Cx. mix	83	848	
	Cx. restuans	2	2	
	Cx. territans	3	5	
	Oc. japonicus	30	52	
	Oc. triseriatus	9	10	
	Ps. ciliata	2	6	
	Ps. columbiae	5	8	
	Ps. ferox	3	3	
Somerset		138	3403	1
	An. barberi	1	3	
	An. punctipennis	3	14	
	Cx. mix	87	3069	1
	Oc. japonicus	31	226	
	Oc. triseriatus	16	91	
Sussex		157	1632	0
	Ae. vexans	3	31	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	22	82	
	An. quadrimaculatus	2	6	
	An. walkeri	1	5	
	Cq. perturbans	18	407	
	Cx. mix	38	674	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	35	170	
	Oc. sticticus	1	16	
	Oc. triseriatus	23	94	
	Oc. trivittatus	4	78	
	Ur. sapphirina	3	7	
Union		64	973	2
	Ae. albopictus	2	3	
	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	5	32	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	11	310	2
	Cx. pipiens	12	331	
	Cx. restuans	11	251	
	Cx. territans	2	3	

	Oc. grossbecki	1	1	
	Oc. japonicus	9	19	
	Oc. punctor	1	1	
	Oc. triseriatus	1	2	
	Or. signifera	1	1	
	Ur. sapphirina	1	2	
Warren		161	6430	1
	An. punctipennis	3	6	
	An. quadrimaculatus	1	17	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	106	6116	1
	Oc. japonicus	37	197	
	Oc. triseriatus	10	26	
	Oc. trivittatus	1	35	
Grand Total		4307	102266	210