

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 18

Culiseta melanura Monitor September 26 – October 2, 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.)	1.8	1.2	1,077	64	5	Waterford (Camden Co.)	1.1	0.8	199	29	0
Corbin City (Atlantic Co.)	0.9	1.1	604	63	0	Centerton (Salem Co.)	2.0	0.9	843	66	2
Dennisville (Cape May Co.)	2.5	1.3	5,024	134	2	Turkey Swamp (Monmouth Co.)	0.7	0.3	1,009	72	5

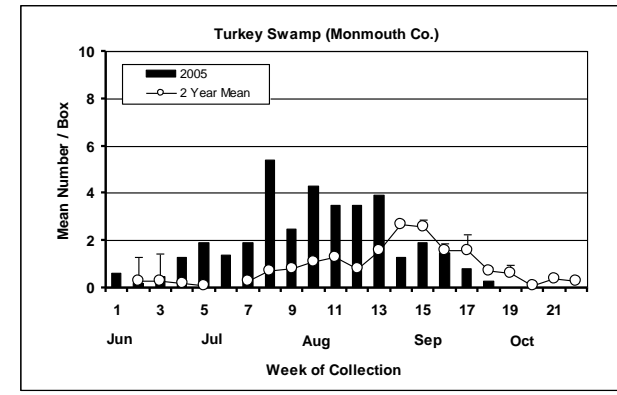
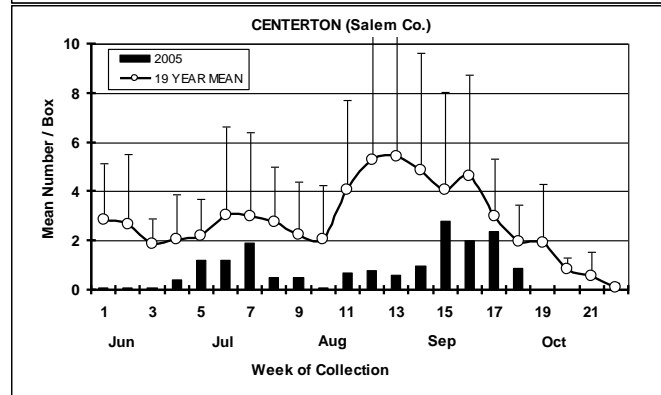
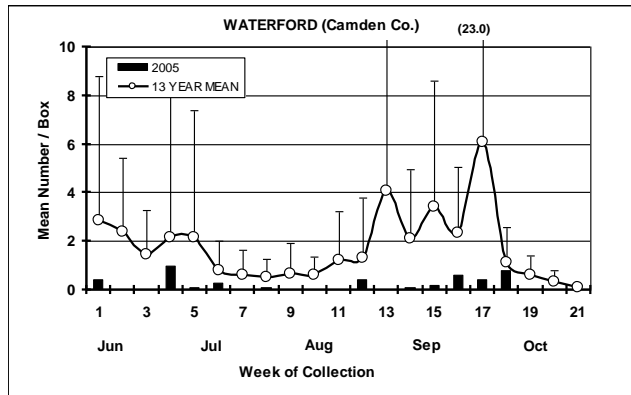
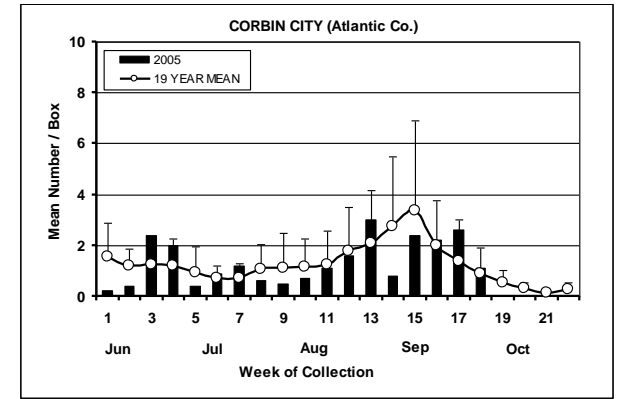
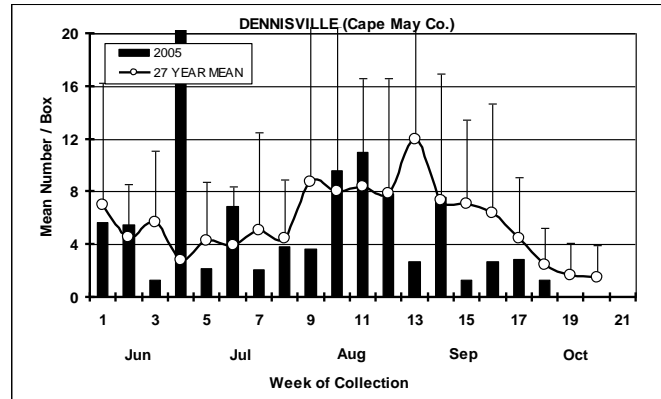
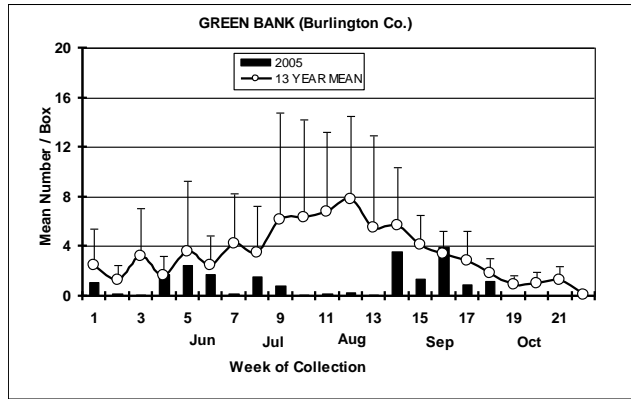
Collections submitted to PHEL for West Nile Virus testing

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	496	175	104	1,863	582	131	30	9	240	66	466	256	634	5,052
Total Specimens	15,069	2,238	2,141	67,554	10,771	1,967	365	125	963	2,202	2,391	2,086	7,399	115,271
No. Positive Pools	68	4	0	178	1	1	0	0	1	0	1	0	0	254

Remarks: Low level EEE amplification continues with positive pools from the Dennisville and Centerton study sites from collections made in mid-September. Cool night time temperatures usually limit mosquito activity in October and resting box collections are expected to steadily decline as the end of the surveillance season approaches. *Culiseta melanura*, however, is a cold hardy species that will continue to blood feed and oviposit well into the fall. The species abandons resting boxes as a daytime resting site when temperatures decline which makes late season population levels difficult to quantify with accuracy. The first 2 human cases of WNV were reported from Union and Bergen Counties apparently contracted from mosquito bites obtained in early September. The timing correlates with surveillance data indicating that WNV was beginning to appear in bridge vectors at that time. Continued dry weather has limited floodwater mosquito populations all season, reducing the potential for transfer of virus to mammalian hosts. All recent positive WNV pools have come from bird feeding mosquitoes, indicating that WNV is still circulating at moderate levels in local bird populations in most areas of the state.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
September 30, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	256	2086	
Ae. cinereus	2	7	
Ae. vexans	131	1967	1
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	39	560	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	116	620	
An. quadrimaculatus	103	2025	
An. walkeri	1	5	
Cq. perturbans	90	1316	
Cs. inornata	2	2	
Cs. melanura	582	10771	1
Cs. morsitans	1	4	
Cx. erraticus	56	1308	
Cx. mix	1863	67554	178
Cx. pipiens	496	15069	68
Cx. restuans	175	2238	4
Cx. salinarius	104	2141	
Cx. territans	29	104	
Oc. abserratus	1	11	
Oc. atlanticus	11	27	
Oc. atropalpus	1	7	
Oc. canadensis	30	365	
Oc. cantator	24	54	
Oc. grossbecki	6	11	
Oc. japonicus	466	2391	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	66	2202	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	41	450	
Oc. triseriatus	240	963	1
Oc. trivittatus	9	125	
Or. signifera	8	9	
Ps. ciliata	8	26	
Ps. columbiae	35	336	
Ps. cyanescens	1	1	
Ps. ferox	36	352	
Ps. howardii	4	24	
Ur. sapphirina	11	48	
Grand Total	5062	115271	254

Submissions by County through September 30, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		313	7727	12
	Ae. albopictus	28	389	
	Ae. vexans	12	142	
	An. bradleyi	1	1	
	An. punctipennis	1	1	
	An. quadrimaculatus	2	5	
	Cq. perturbans	14	404	
	Cs. melanura	73	689	
	Cx. erraticus	22	828	
	Cx. mix	86	3580	12
	Cx. pipiens	3	48	
	Cx. restuans	1	1	
	Cx. salinarius	5	155	
	Cx. territans	2	3	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	12	64	
	Oc. sollicitans	25	1108	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	2	12	
	Oc. triseriatus	13	62	
	Or. signifera	1	2	
	Ps. ferox	6	212	
Bergen		321	16646	87
	Ae. albopictus	10	73	
	Ae. vexans	14	210	
	An. punctipennis	4	6	
	Cq. perturbans	3	7	
	Cs. melanura	4	72	
	Cx. mix	169	12629	68
	Cx. pipiens	63	2860	18
	Cx. restuans	11	96	1
	Cx. salinarius	16	591	
	Oc. cantator	1	2	
	Oc. japonicus	12	70	
	Oc. sollicitans	3	3	
	Oc. triseriatus	8	23	
	Ps. ferox	1	1	
	Ur. sapphirina	2	3	
Burlington		285	4247	2
	Ae. albopictus	22	285	
	Ae. cinereus	2	7	
	Ae. vexans	22	899	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	8	80	
	An. quadrimaculatus	8	25	
	Cq. perturbans	10	34	

	Cs. inornata	1	1	
	Cs. melanura	73	1232	
	Cx. erraticus	8	31	
	Cx. mix	32	544	2
	Cx. pipiens	4	99	
	Cx. restuans	1	1	
	Cx. salinarius	5	96	
	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	17	147	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	19	146	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	3	4	
	Ps. columbiae	11	148	
	Ps. cyanescens	1	1	
	Ps. ferox	2	22	
	Ps. howardii	3	23	
	Ur. sapphirina	2	22	
Camden		114	1333	3
	Ae. albopictus	17	90	
	Ae. vexans	2	39	
	An. punctipennis	4	15	
	An. quadrimaculatus	7	15	
	Cs. melanura	28	198	
	Cx. mix	34	903	3
	Cx. pipiens	1	1	
	Oc. japonicus	17	68	
	Oc. triseriatus	2	2	
	Or. signifera	2	2	
Cape May		432	11982	2
	Ae. albopictus	24	126	
	Ae. vexans	1	8	
	An. bradleyi	14	442	
	An. punctipennis	1	75	
	An. quadrimaculatus	19	1054	
	Cq. perturbans	10	143	
	Cs. melanura	186	6518	1
	Cx. erraticus	5	104	
	Cx. mix	16	525	1
	Cx. pipiens	58	1347	
	Cx. restuans	46	599	
	Cx. salinarius	23	646	

	Cx. territans	7	53	
	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	7	25	
Cumberland		194	893	0
	Ae. albopictus	3	3	
	Ae. vexans	8	12	
	An. bradleyi	8	41	
	An. punctipennis	6	8	
	An. quadrimaculatus	7	9	
	Cq. perturbans	2	2	
	Cs. melanura	55	179	
	Cx. mix	45	318	
	Oc. atlanticus	6	8	
	Oc. canadensis	3	3	
	Oc. cantator	5	6	
	Oc. grossbecki	1	1	
	Oc. sollicitans	2	6	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	30	277	
	Oc. triseriatus	1	1	
	Ps. ferox	9	16	
Essex		184	3278	15
	Ae. albopictus	20	59	
	Ae. vexans	8	133	
	An. quadrimaculatus	4	8	
	Cq. perturbans	1	1	
	Cx. mix	118	2922	15
	Oc. japonicus	22	126	
	Oc. sticticus	1	3	
	Oc. triseriatus	5	12	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	3	3	
Gloucester		195	4358	4
	Ae. albopictus	14	44	
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	An. quadrimaculatus	2	2	
	Cx. mix	1	45	
	Cx. pipiens	146	4161	4
	Oc. japonicus	19	89	
	Oc. triseriatus	6	8	
	Ps. columbiae	1	1	
Hudson		177	5427	24
	Cx. mix	177	5427	24
Hunterdon		226	8217	4
	Ae. vexans	2	2	

	An. bradleyi	1	10	
	An. punctipennis	7	13	
	An. quadrimaculatus	1	3	
	Cx. mix	163	7477	4
	Cx. pipiens	24	510	
	Cx. restuans	15	172	
	Cx. salinarius	1	4	
	Cx. territans	2	3	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	
Mercer		346	8523	51
	Ae. albopictus	31	276	
	Ae. vexans	17	239	1
	An. bradleyi	1	2	
	An. punctipennis	11	39	
	An. quadrimaculatus	6	23	
	Cq. perturbans	3	72	
	Cs. melanura	4	13	
	Cx. erraticus	5	52	
	Cx. mix	41	2257	7
	Cx. pipiens	109	4406	40
	Cx. restuans	50	686	2
	Cx. salinarius	7	126	
	Oc. japonicus	38	123	1
	Oc. triseriatus	11	44	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
Middlesex		352	7629	21
	Ae. albopictus	19	128	
	Ae. vexans	8	36	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	4	24	
	Cq. perturbans	3	105	
	Cs. melanura	2	6	
	Cx. erraticus	1	1	
	Cx. mix	160	5833	17
	Cx. pipiens	50	798	3
	Cx. restuans	17	275	
	Cx. salinarius	9	99	
	Cx. territans	1	1	
	Oc. japonicus	34	144	
	Oc. sollicitans	4	9	
	Oc. triseriatus	23	71	1
	Or. signifera	2	2	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
	Ur. sapphirina	2	12	

Monmouth	408	5270	8
Ae. albopictus	22	38	
Ae. vexans	17	142	
An. barberi	1	1	
An. punctipennis	8	17	
An. quadrimaculatus	2	14	
Cq. perturbans	5	9	
Cs. melanura	77	996	
Cx. erraticus	3	6	
Cx. mix	133	2880	5
Cx. pipiens	20	196	3
Cx. restuans	6	13	
Cx. salinarius	4	5	
Cx. territans	5	21	
Oc. atlanticus	1	1	
Oc. canadensis	13	121	
Oc. cantator	10	27	
Oc. japonicus	27	122	
Oc. sollicitans	16	461	
Oc. taeniorhynchus	3	21	
Oc. triseriatus	28	153	
Ps. columbiae	2	3	
Ps. ferox	5	23	
Morris	164	3262	1
Ae. vexans	2	17	
An. punctipennis	4	10	
An. quadrimaculatus	2	2	
Cq. perturbans	2	5	
Cx. mix	89	2769	
Cx. pipiens	2	115	
Cx. restuans	2	47	1
Oc. japonicus	41	225	
Oc. triseriatus	19	68	
Ps. ferox	1	4	
Ocean	306	6008	5
Ae. albopictus	36	547	
Ae. vexans	8	38	
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. erraticus	1	1	
Cx. mix	103	3931	5
Cx. pipiens	3	186	
Cx. restuans	12	94	
Cx. salinarius	33	418	
Cx. territans	3	5	
Oc. atlanticus	1	5	
Oc. canadensis	8	206	
Oc. cantator	5	9	
Oc. japonicus	35	166	

	Oc. sollicitans	6	171	
	Oc. triseriatus	22	67	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
Passaic		153	4049	10
	Ae. albopictus	5	16	
	Ae. vexans	1	4	
	An. punctipennis	3	10	
	Cx. mix	121	3694	10
	Oc. japonicus	19	304	
	Oc. triseriatus	4	21	
Salem		278	3103	0
	Ae. vexans	1	1	
	An. bradleyi	8	23	
	An. punctipennis	13	193	
	An. quadrimaculatus	24	769	
	Cq. perturbans	8	18	
	Cs. melanura	67	826	
	Cx. erraticus	10	278	
	Cx. mix	87	899	
	Cx. restuans	2	2	
	Cx. salinarius	1	1	
	Cx. territans	4	8	
	Oc. japonicus	32	55	
	Oc. triseriatus	9	10	
	Ps. ciliata	2	6	
	Ps. columbiae	6	10	
	Ps. ferox	4	4	
Somerset		161	3642	1
	An. barberi	1	3	
	An. punctipennis	5	20	
	Cx. mix	101	3294	1
	Oc. japonicus	35	230	
	Oc. triseriatus	19	95	
Sussex		187	1818	0
	Ae. vexans	4	40	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	26	89	
	An. quadrimaculatus	6	13	
	An. walkeri	1	5	
	Cq. perturbans	18	407	
	Cx. mix	47	781	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	42	202	
	Oc. sticticus	1	16	
	Oc. triseriatus	26	114	
	Oc. trivittatus	5	80	

	Ur. sapphirina	4	9	
Union		78	1077	3
	Ae. albopictus	5	12	
	Ae. vexans	2	3	
	An. punctipennis	3	6	
	An. quadrimaculatus	7	37	
	Cq. perturbans	1	1	
	Cx. erraticus	1	7	
	Cx. mix	17	392	3
	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	4	10	
	Or. signifera	1	1	
	Ur. sapphirina	1	2	
Warren		187	6780	1
	An. punctipennis	4	7	
	An. quadrimaculatus	1	17	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	123	6454	1
	Oc. japonicus	42	204	
	Oc. triseriatus	13	30	
	Oc. trivittatus	1	35	
Grand Total		5061	115269	254