

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 13

Culiseta melanura Monitor August 22, - 28, 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.)	5.5	<0.1	525	41	2	Waterford (Camden Co.)	4.0	0	111	15	0
Corbin City (Atlantic Co.)	2.1	3.0	375	43	0	Centerton (Salem Co.)	5.4	0.6	399	45	0
Dennisville (Cape May Co.)	11.9	2.7	4,238	108	1	Turkey Swamp (Monmouth Co.)	1.6	3.9	847	53	1

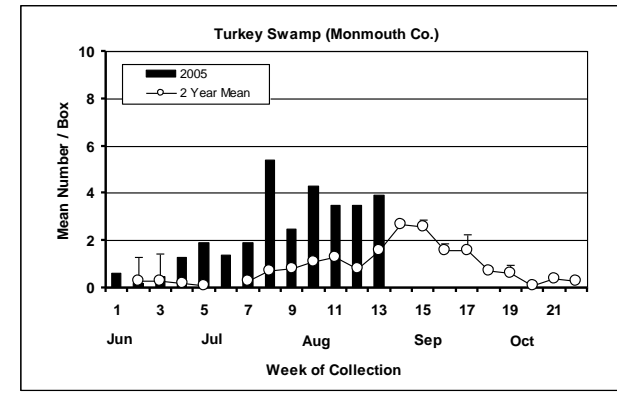
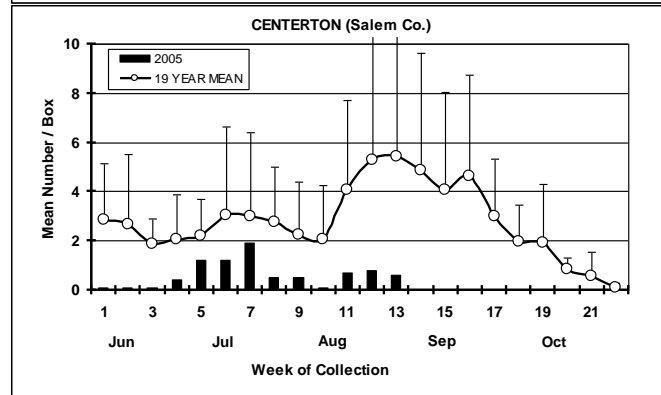
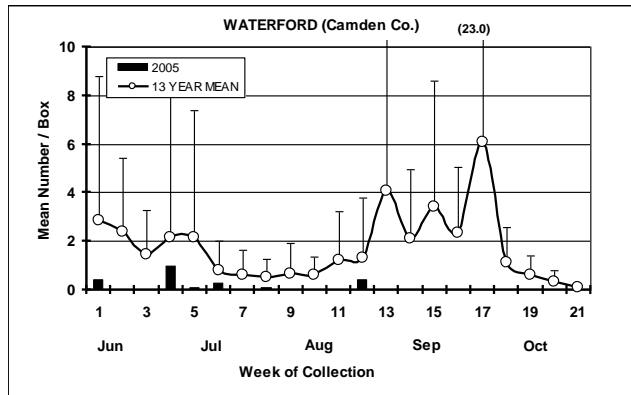
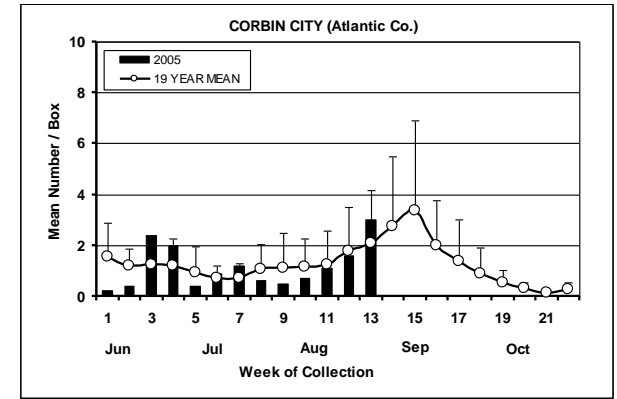
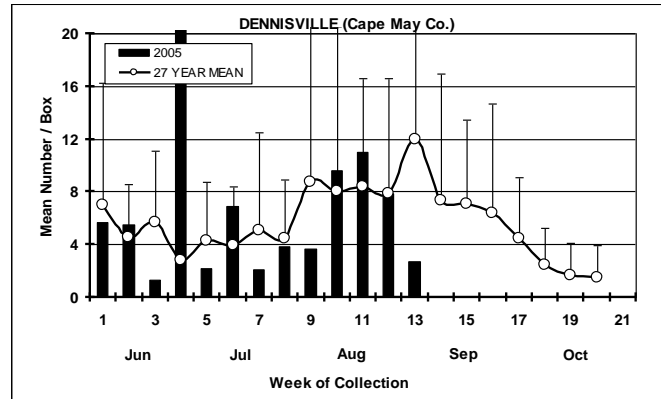
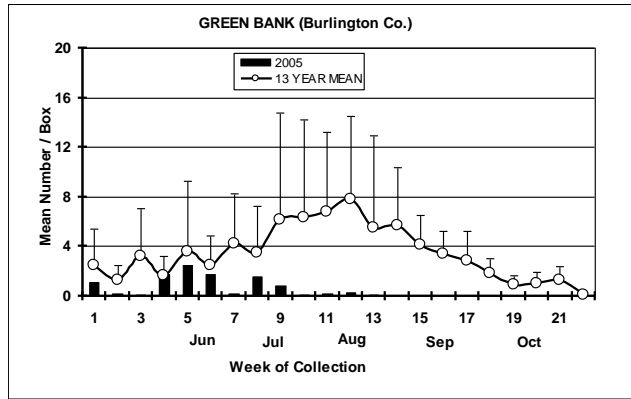
Collections submitted to PHEL for West Nile Virus testing

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	316	138	72	1,268	420	83	26	8	134	36	330	129	381	3,341
Total Specimens	10,566	1,972	1,365	50,168	7,827	1,144	333	123	626	1,328	1,903	1,081	4,430	82,866
No. Positive Pools	39	3	0	72	0	0	0	0	0	0	1	0	0	115

Remarks: EEE activity has now been documented over most of the southern half of New Jersey with positive pools from *Cs. melanura*, sero-conversions in sentinel chickens, and 2 additional equine deaths. The latest equine cases include young mares from New Egypt, Ocean Co. and Vincentown, Burlington Co. bringing this year's total to 3. Both showed onset August 18 and died shortly thereafter. The Cape May Co. Dept. of Mosquito Control has had seroconversions in 4 of the sentinel chicken flocks they monitor to supplement their EEE surveillance activities. Regional surveillance data point toward widespread virus activity throughout much of the northeast as the fall bird migration gets underway. Although WNV is still contained largely within the amplification cycle, a single positive has been detected from a mammalian biting species. Mercer Co. recently collected a pool of *Oc. japonicus* infected with WNV, the first evidence that transfer to human biting species is taking place.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
August 26, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	129	1081	
Ae. cinereus	2	7	
Ae. vexans	83	1144	
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	19	222	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	64	345	
An. quadrimaculatus	41	800	
Cq. perturbans	73	1271	
Cs. melanura	420	7827	
Cs. morsitans	1	4	
Cx. erraticus	21	646	
Cx. mix	1268	50168	72
Cx. pipiens	316	10566	39
Cx. restuans	138	1972	3
Cx. salinarius	72	1365	
Cx. territans	13	57	
Oc. abserratus	1	11	
Oc. atlanticus	7	21	
Oc. atropalpus	1	7	
Oc. canadensis	26	333	
Oc. cantator	21	51	
Oc. grossbecki	6	11	
Oc. japonicus	330	1903	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	36	1328	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	22	250	
Oc. triseriatus	134	626	
Oc. trivittatus	8	123	
Or. signifera	5	6	
Ps. ciliata	6	23	
Ps. columbiae	28	244	
Ps. ferox	27	327	
Ps. howardii	3	20	
Ur. sapphirina	2	15	
Grand Total	3341	82866	115

Submissions by County through August 26, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		195	5426	3
	Ae. albopictus	14	303	
	Ae. vexans	6	118	
	Cq. perturbans	13	402	
	Cs. melanura	50	448	
	Cx. erraticus	11	550	
	Cx. mix	65	2821	3
	Cx. salinarius	1	18	
	Cx. territans	1	2	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	8	54	
	Oc. sollicitans	9	423	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	1	8	
	Oc. triseriatus	5	44	
	Or. signifera	1	2	
	Ps. ferox	6	212	
Bergen		187	10440	42
	Ae. albopictus	1	1	
	Ae. vexans	7	28	
	An. punctipennis	1	2	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	107	8025	30
	Cx. pipiens	41	2112	11
	Cx. restuans	8	67	1
	Cx. salinarius	7	88	
	Oc. cantator	1	2	
	Oc. japonicus	5	33	
	Oc. triseriatus	3	4	
Burlington		179	2227	0
	Ae. albopictus	15	145	
	Ae. cinereus	2	7	
	Ae. vexans	12	378	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	4	22	
	An. quadrimaculatus	4	15	
	Cq. perturbans	6	26	
	Cs. melanura	43	601	
	Cx. erraticus	3	4	
	Cx. mix	25	326	
	Cx. pipiens	1	2	
	Cx. salinarius	1	3	
	Cx. territans	2	6	
	Oc. abserratus	1	11	
	Oc. atlanticus	1	2	

	Oc. atropalpus	1	7	
	Oc. canadensis	2	8	
	Oc. cantator	1	3	
	Oc. grossbecki	3	8	
	Oc. japonicus	13	85	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	11	118	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	6	59	
	Ps. ferox	1	9	
	Ps. howardii	2	19	
	Ur. sapphirina	1	12	
Camden		70	850	0
	Ae. albopictus	10	35	
	Ae. vexans	2	39	
	An. punctipennis	3	14	
	An. quadrimaculatus	3	8	
	Cs. melanura	16	113	
	Cx. mix	22	581	
	Oc. japonicus	12	58	
	Oc. triseriatus	1	1	
	Or. signifera	1	1	
Cape May		303	8816	0
	Ae. albopictus	12	50	
	Ae. vexans	1	8	
	An. bradleyi	6	158	
	An. punctipennis	1	75	
	An. quadrimaculatus	9	603	
	Cq. perturbans	9	139	
	Cs. melanura	141	5186	
	Cx. erraticus	2	51	
	Cx. mix	11	205	
	Cx. pipiens	33	804	
	Cx. restuans	37	549	
	Cx. salinarius	19	623	
	Cx. territans	3	32	
	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	5	168	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	5	17	
Cumberland		135	538	0
	Ae. albopictus	1	1	
	Ae. vexans	2	2	
	An. bradleyi	2	4	

	An. punctipennis	6	8	
	An. quadrimaculatus	5	7	
	Cq. perturbans	1	1	
	Cs. melanura	55	179	
	Cx. mix	31	219	
	Oc. atlanticus	2	2	
	Oc. canadensis	3	3	
	Oc. cantator	4	5	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	14	95	
	Ps. ferox	4	7	
Essex		104	2096	1
	Ae. albopictus	7	29	
	Ae. vexans	8	133	
	An. quadrimaculatus	1	1	
	Cq. perturbans	1	1	
	Cx. mix	66	1798	1
	Oc. japonicus	14	111	
	Oc. sticticus	1	3	
	Oc. triseriatus	2	7	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	2	2	
Gloucester		125	2569	1
	Ae. albopictus	5	14	
	Ae. vexans	2	2	
	An. punctipennis	3	5	
	An. quadrimaculatus	1	1	
	Cx. mix	1	45	
	Cx. pipiens	91	2409	1
	Oc. japonicus	17	86	
	Oc. triseriatus	4	6	
	Ps. columbiae	1	1	
Hudson		118	3992	16
	Cx. mix	118	3992	16
Hunterdon		154	5864	1
	Ae. vexans	2	2	
	An. bradleyi	1	10	
	An. punctipennis	4	6	
	An. quadrimaculatus	1	3	
	Cx. mix	107	5264	1
	Cx. pipiens	16	405	
	Cx. restuans	11	145	
	Cx. salinarius	1	4	
	Cx. territans	1	2	
	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	

Mercer		252	6384	30
	Ae. albopictus	19	130	
	Ae. vexans	13	188	
	An. bradleyi	1	2	
	An. punctipennis	6	19	
	An. quadrimaculatus	3	5	
	Cq. perturbans	2	66	
	Cs. melanura	2	3	
	Cx. erraticus	3	39	
	Cx. mix	20	1127	1
	Cx. pipiens	86	3743	26
	Cx. restuans	45	661	2
	Cx. salinarius	6	124	
	Oc. japonicus	31	107	1
	Oc. triseriatus	4	6	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
Middlesex		219	6431	8
	Ae. albopictus	7	60	
	Ae. vexans	5	31	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	2	9	
	Cq. perturbans	3	105	
	Cx. mix	114	5095	8
	Cx. pipiens	23	544	
	Cx. restuans	12	256	
	Cx. salinarius	6	91	
	Cx. territans	1	1	
	Oc. japonicus	19	107	
	Oc. sollicitans	2	6	
	Oc. triseriatus	11	40	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
Monmouth		284	4072	3
	Ae. albopictus	15	26	
	Ae. vexans	14	137	
	An. barberi	1	1	
	An. punctipennis	4	7	
	Cq. perturbans	5	9	
	Cs. melanura	55	824	
	Cx. mix	84	2182	2
	Cx. pipiens	13	152	1
	Cx. restuans	6	13	
	Cx. salinarius	2	3	
	Cx. territans	2	9	
	Oc. atlanticus	1	1	
	Oc. canadensis	11	93	
	Oc. cantator	10	27	

	Oc. japonicus	21	91	
	Oc. sollicitans	12	352	
	Oc. taeniorhynchus	1	7	
	Oc. triseriatus	21	113	
	Ps. columbiae	1	2	
	Ps. ferox	5	23	
Morris		104	2461	0
	Ae. vexans	2	17	
	An. punctipennis	1	2	
	An. quadrimaculatus	1	1	
	Cq. perturbans	2	5	
	Cx. mix	57	2189	
	Oc. japonicus	29	192	
	Oc. triseriatus	11	51	
	Ps. ferox	1	4	
Ocean		224	5364	5
	Ae. albopictus	20	282	
	Ae. vexans	5	35	
	An. bradleyi	2	6	
	An. punctipennis	1	1	
	An. quadrimaculatus	1	5	
	Cq. perturbans	6	69	
	Cs. melanura	8	19	
	Cs. morsitans	1	4	
	Cx. mix	84	3739	5
	Cx. pipiens	3	186	
	Cx. restuans	9	91	
	Cx. salinarius	29	411	
	Cx. territans	2	3	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	3	7	
	Oc. japonicus	25	140	
	Oc. sollicitans	3	103	
	Oc. triseriatus	9	22	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
Passaic		97	2956	3
	Ae. albopictus	1	2	
	An. punctipennis	1	1	
	Cx. mix	79	2677	3
	Oc. japonicus	12	255	
	Oc. triseriatus	4	21	
Salem		193	1516	0
	An. bradleyi	3	7	
	An. punctipennis	7	73	
	An. quadrimaculatus	7	139	
	Cq. perturbans	7	15	
	Cs. melanura	46	382	
	Cx. erraticus	2	2	

	Cx. mix	74	821	
	Cx. restuans	1	1	
	Cx. territans	1	2	
	Oc. japonicus	27	48	
	Oc. triseriatus	8	9	
	Ps. ciliata	2	6	
	Ps. columbiae	5	8	
	Ps. ferox	3	3	
Somerset		123	3144	1
	An. barberi	1	3	
	An. punctipennis	3	14	
	Cx. mix	77	2824	1
	Oc. japonicus	27	214	
	Oc. triseriatus	15	89	
Sussex		112	1460	0
	Ae. vexans	2	26	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	13	66	
	An. quadrimaculatus	1	1	
	Cq. perturbans	14	395	
	Cx. mix	29	634	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	26	118	
	Oc. sticticus	1	16	
	Oc. triseriatus	14	61	
	Oc. trivittatus	4	78	
	Ur. sapphirina	1	3	
Union		38	654	1
	Ae. albopictus	2	3	
	An. quadrimaculatus	2	2	
	Cx. mix	8	245	1
	Cx. pipiens	8	198	
	Cx. restuans	8	188	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	13	
	Oc. punctor	1	1	
	Oc. triseriatus	1	2	
	Or. signifera	1	1	
Warren		124	5604	0
	An. punctipennis	3	6	
	Cq. perturbans	2	32	
	Cx. mix	89	5359	
	Oc. japonicus	25	158	
	Oc. triseriatus	4	14	
	Oc. trivittatus	1	35	
Grand Total		3340	82864	115

