

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 12

Culiseta melanura Monitor August 15 - 21, 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.)	7.8	0.3	523	40	2	Waterford (Camden Co.)	1.3	0.4	111	15	0
Corbin City (Atlantic Co.)	1.8	1.6	301	38	0	Centerton (Salem Co.)	5.3	0.8	367	41	0
Dennisville (Cape May Co.)	7.9	7.9	4,102	104	1	Turkey Swamp (Monmouth Co.)	0.8	3.5	737	48	1

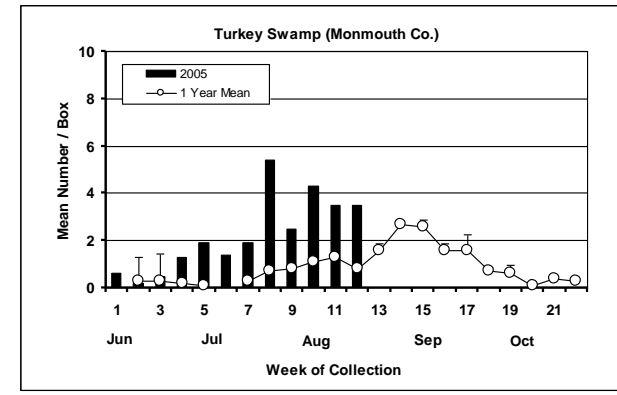
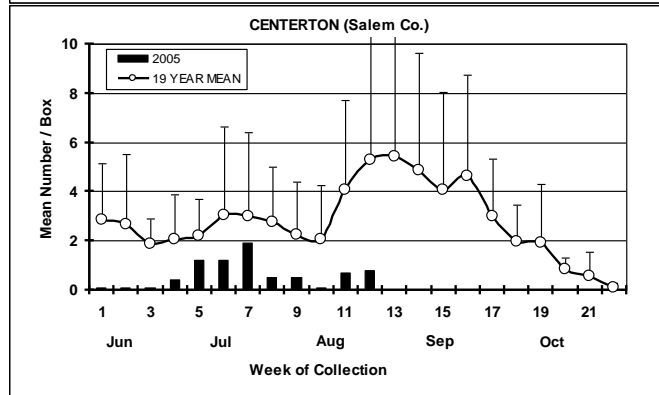
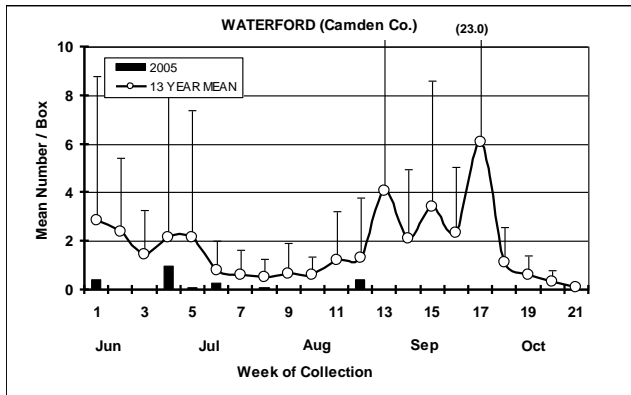
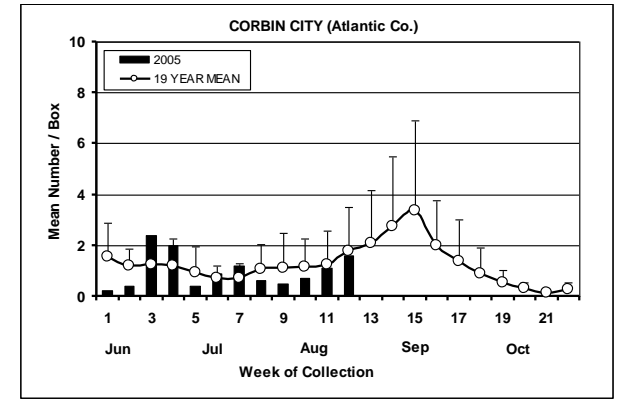
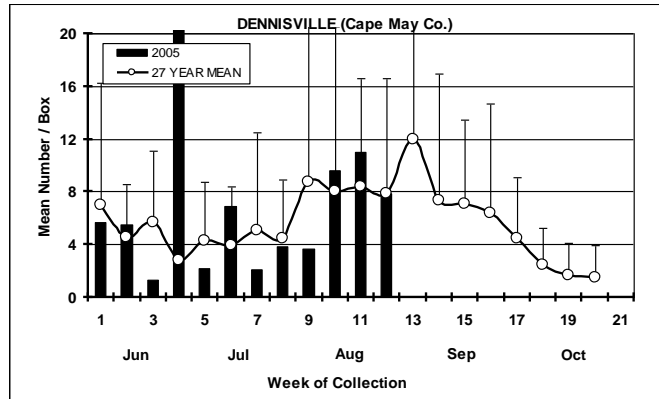
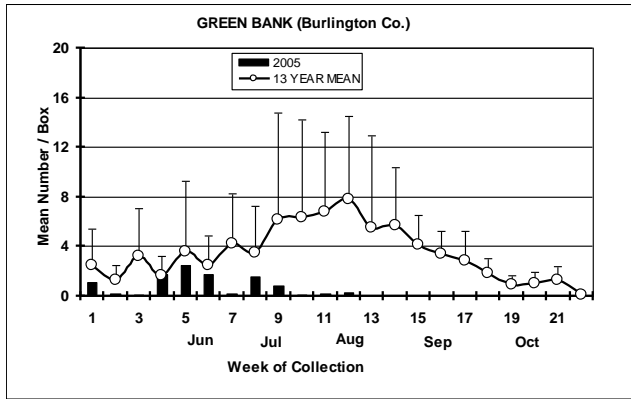
Collections submitted to PHEL for West Nile Virus testing

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	274	122	63	1,136	391	76	19	7	103	35	290	95	305	2,916
Total Specimens	9,300	1,649	1,329	45,764	7,428	1,093	270	121	510	1,327	1,748	791	3,307	74,637
No. Positive Pools	22	2	0	57	0	0	0	0	0	0	0	0	0	81

Remarks: A pool of *Cs. melanura* tested positive for EEE from a collection made at the Dennisville site on August 8 indicating that virus has now been dispersed throughout most of southern New Jersey. A 2nd positive was obtained from the Green Bank site from a collection made the following day despite the fact that *Cs. melanura* populations are well below normal levels in that area. Amplification appears to be occurring at relatively low levels at the present time, which is probably a function of the age of local *Cs. melanura* populations. Any influx of nulliparous mosquitoes in the presence of EEE from this point on in the season will increase amplification levels significantly. WNV is still confined to bird feeding species with all positives, to date, coming from the *Culex* complex. Connecticut recently reported positives from a wide range of mammal biting species indicating that transfer to bridge vectors has taken place in some areas of the northeast.

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Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
August 19, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	95	791	
Ae. cinereus	2	7	
Ae. vexans	76	1093	
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	13	150	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	49	283	
An. quadrimaculatus	30	518	
Cq. perturbans	67	1245	
Cs. melanura	391	7428	
Cs. morsitans	1	4	
Cx. erraticus	8	94	
Cx. mix	1136	45764	57
Cx. pipiens	274	9300	22
Cx. restuans	122	1649	2
Cx. salinarius	63	1329	
Cx. territans	7	37	
Oc. abserratus	1	11	
Oc. atlanticus	5	19	
Oc. atropalpus	1	7	
Oc. canadensis	19	270	
Oc. cantator	21	51	
Oc. grossbecki	6	11	
Oc. japonicus	290	1748	
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	35	1327	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	15	203	
Oc. triseriatus	103	510	
Oc. trivittatus	7	121	
Or. signifera	4	5	
Ps. ciliata	6	23	
Ps. columbiae	21	191	
Ps. ferox	26	326	
Ps. howardii	2	15	
Ur. sapphirina	2	15	
Grand Total	2916	74637	81

Submissions by County through August 19, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		157	4246	2
	Ae. albopictus	11	214	
	Ae. vexans	5	114	
	Cq. perturbans	13	402	
	Cs. melanura	43	353	
	Cx. mix	53	2404	2
	Cx. salinarius	1	18	
	Cx. territans	1	2	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	5	34	
	Oc. sollicitans	9	423	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	1	8	
	Oc. triseriatus	4	39	
	Or. signifera	1	2	
	Ps. ferox	6	212	
Bergen		182	10310	30
	Ae. vexans	7	28	
	An. punctipennis	1	2	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	107	8025	30
	Cx. pipiens	37	1983	
	Cx. restuans	8	67	
	Cx. salinarius	7	88	
	Oc. cantator	1	2	
	Oc. japonicus	5	33	
	Oc. triseriatus	3	4	
Burlington		162	2013	0
	Ae. albopictus	11	121	
	Ae. cinereus	2	7	
	Ae. vexans	12	378	
	An. barberi	1	1	
	An. bradleyi	2	32	
	An. crucians	1	2	
	An. punctipennis	4	22	
	An. quadrimaculatus	4	15	
	Cq. perturbans	4	17	
	Cs. melanura	42	599	
	Cx. erraticus	3	4	
	Cx. mix	22	224	
	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	10	54	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	10	97	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	5	40	
	Ps. ferox	1	9	
	Ps. howardii	1	14	
	Ur. sapphirina	1	12	
Camden		63	820	0
	Ae. albopictus	8	28	
	Ae. vexans	2	39	
	An. punctipennis	2	13	
	An. quadrimaculatus	3	8	
	Cs. melanura	16	113	
	Cx. mix	20	564	
	Oc. japonicus	11	54	
	Or. signifera	1	1	
Cape May		272	8201	0
	Ae. albopictus	5	21	
	Ae. vexans	1	8	
	An. bradleyi	5	105	
	An. punctipennis	1	75	
	An. quadrimaculatus	6	378	
	Cq. perturbans	9	139	
	Cs. melanura	134	5015	
	Cx. erraticus	2	51	
	Cx. mix	10	197	
	Cx. pipiens	27	709	
	Cx. restuans	35	539	
	Cx. salinarius	18	611	
	Cx. territans	2	26	
	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	5	168	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	3	11	
Cumberland		120	443	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	54	178	
	Cx. mix	25	173	
	Oc. atlanticus	1	1	
	Oc. canadensis	3	3	
	Oc. cantator	4	5	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	7	48	
	Ps. ferox	4	7	
Essex		86	1499	1
	Ae. albopictus	5	17	
	Ae. vexans	8	133	
	An. quadrimaculatus	1	1	
	Cq. perturbans	1	1	
	Cx. mix	53	1197	1
	Oc. japonicus	12	129	
	Oc. sticticus	1	3	
	Oc. triseriatus	2	7	
	Ps. ciliata	1	9	
	Ps. ferox	2	2	
Gloucester		125	2569	0
	Ae. albopictus	5	14	
	Ae. vexans	2	2	
	An. punctipennis	3	5	
	An. quadrimaculatus	1	1	
	Cx. mix	1	45	
	Cx. pipiens	91	2409	
	Oc. japonicus	17	86	
	Oc. triseriatus	4	6	
	Ps. columbiae	1	1	
Hudson		103	3432	7
	Cx. mix	103	3432	7
Hunterdon		119	4838	0
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	Cx. mix	94	4621	
	Cx. pipiens	9	123	
	Cx. restuans	6	81	
	Oc. japonicus	4	5	
Mercer		211	5375	24
	Ae. albopictus	15	61	
	Ae. vexans	9	143	
	An. bradleyi	1	2	
	An. punctipennis	4	14	
	An. quadrimaculatus	2	4	
	Cq. perturbans	2	66	
	Cs. melanura	2	3	
	Cx. erraticus	2	38	

	Cx. mix	18	987	1
	Cx. pipiens	75	3252	21
	Cx. restuans	41	429	2
	Cx. salinarius	5	123	
	Oc. japonicus	26	95	
	Oc. triseriatus	1	1	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	3	90	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
Middlesex		183	5914	7
	Ae. albopictus	7	60	
	Ae. vexans	5	31	
	An. punctipennis	1	2	
	Cq. perturbans	2	93	
	Cx. mix	106	4916	7
	Cx. pipiens	14	304	
	Cx. restuans	8	240	
	Cx. salinarius	4	83	
	Oc. japonicus	18	95	
	Oc. sollicitans	2	6	
	Oc. triseriatus	8	32	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	6	50	
Monmouth		237	3669	3
	Ae. albopictus	10	21	
	Ae. vexans	13	136	
	An. barberi	1	1	
	An. punctipennis	3	6	
	Cq. perturbans	4	7	
	Cs. melanura	48	711	
	Cx. mix	76	2036	2
	Cx. pipiens	8	123	1
	Cx. restuans	6	13	
	Cx. salinarius	2	3	
	Cx. territans	1	2	
	Oc. canadensis	4	30	
	Oc. cantator	10	27	
	Oc. japonicus	18	78	
	Oc. sollicitans	11	351	
	Oc. taeniorhynchus	1	7	
	Oc. triseriatus	16	93	
	Ps. columbiae	1	2	
	Ps. ferox	4	22	
Morris		93	2395	0
	Ae. vexans	2	17	
	An. punctipennis	1	2	
	Cq. perturbans	2	5	
	Cx. mix	51	2128	

	Oc. japonicus	27	190	
	Oc. triseriatus	9	49	
	Ps. ferox	1	4	
Ocean		194	5210	5
	Ae. albopictus	15	230	
	Ae. vexans	4	34	
	An. bradleyi	1	3	
	Cq. perturbans	5	68	
	Cs. melanura	7	17	
	Cs. morsitans	1	4	
	Cx. mix	79	3697	5
	Cx. pipiens	3	186	
	Cx. restuans	8	90	
	Cx. salinarius	25	400	
	Cx. territans	1	1	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	3	7	
	Oc. japonicus	20	128	
	Oc. sollicitans	3	103	
	Oc. triseriatus	7	20	
	Ps. ferox	3	11	
Passaic		90	2847	2
	Ae. albopictus	1	2	
	Cx. mix	74	2571	2
	Oc. japonicus	11	253	
	Oc. triseriatus	4	21	
Salem		169	1383	0
	An. bradleyi	2	4	
	An. punctipennis	6	52	
	An. quadrimaculatus	5	101	
	Cq. perturbans	7	15	
	Cs. melanura	41	367	
	Cx. erraticus	1	1	
	Cx. mix	66	774	
	Cx. restuans	1	1	
	Oc. japonicus	25	45	
	Oc. triseriatus	5	6	
	Ps. ciliata	2	6	
	Ps. columbiae	5	8	
	Ps. ferox	3	3	
Somerset		108	2643	0
	An. barberi	1	3	
	An. punctipennis	3	14	
	Cx. mix	68	2370	
	Oc. japonicus	24	191	
	Oc. triseriatus	12	65	
Sussex		97	1337	0
	Ae. vexans	2	26	

	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	9	58	
	An. quadrimaculatus	1	1	
	Cq. perturbans	13	393	
	Cx. mix	26	560	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	23	97	
	Oc. sticticus	1	16	
	Oc. triseriatus	10	43	
	Oc. trivittatus	4	78	
	Ur. sapphirina	1	3	
Union		34	568	0
	Ae. albopictus	1	1	
	An. quadrimaculatus	2	2	
	Cx. mix	6	162	
	Cx. pipiens	8	198	
	Cx. restuans	8	188	
	Oc. grossbecki	1	1	
	Oc. japonicus	6	13	
	Oc. punctor	1	1	
	Oc. triseriatus	1	2	
Warren		110	4923	0
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Cx. mix	78	4681	
	Oc. japonicus	24	157	
	Oc. triseriatus	4	14	
	Oc. trivittatus	1	35	
Grand Total		2915	74635	81