

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 15

Culiseta melanura Monitor September 5 - 11, 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.)	4.2	1.4	778	50	3	Waterford (Camden Co.)	3.4	0.2	123	20	0
Corbin City (Atlantic Co.)	3.4	2.4	457	51	0	Centerton (Salem Co.)	4.1	2.8	583	54	0
Dennisville (Cape May Co.)	7.1	1.3	4,683	120	1	Turkey Swamp (Monmouth Co.)	2.6	1.9	938	61	4

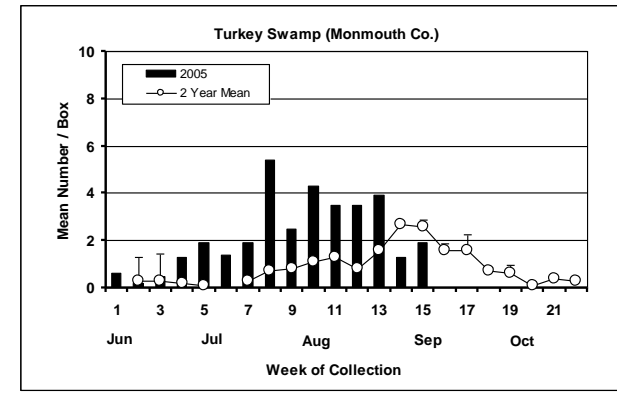
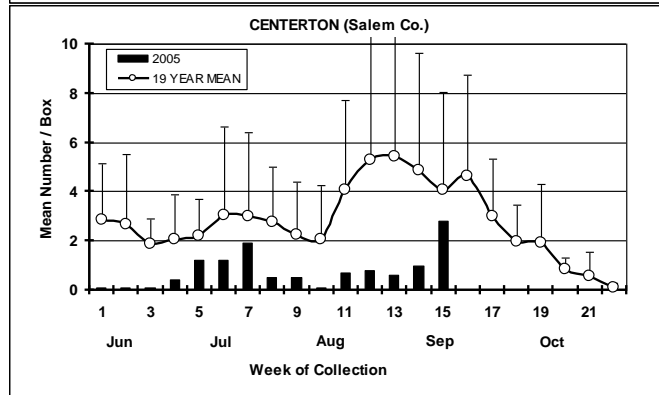
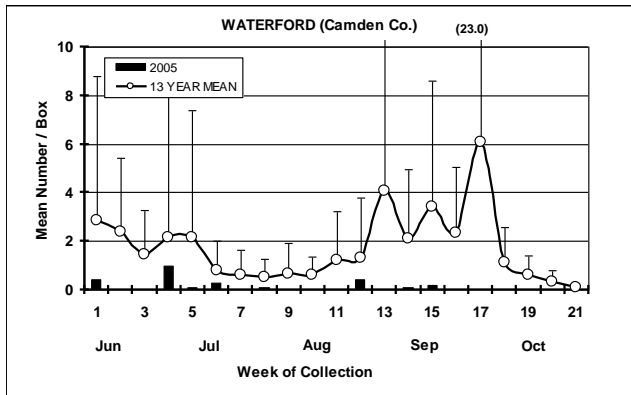
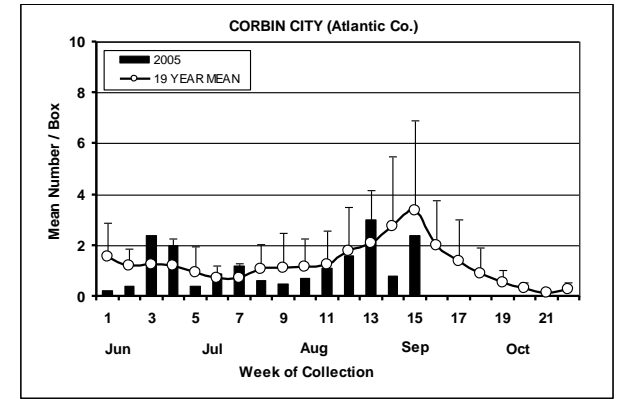
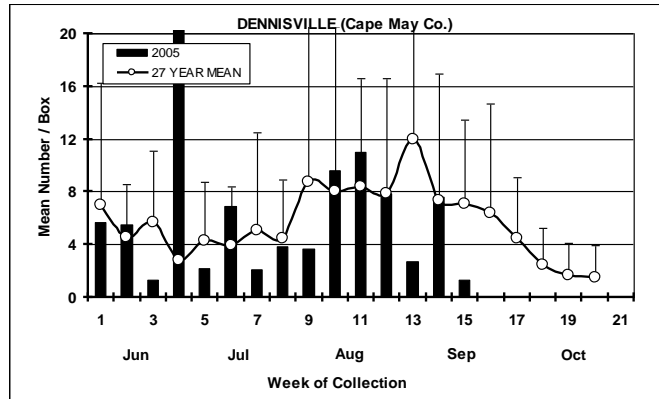
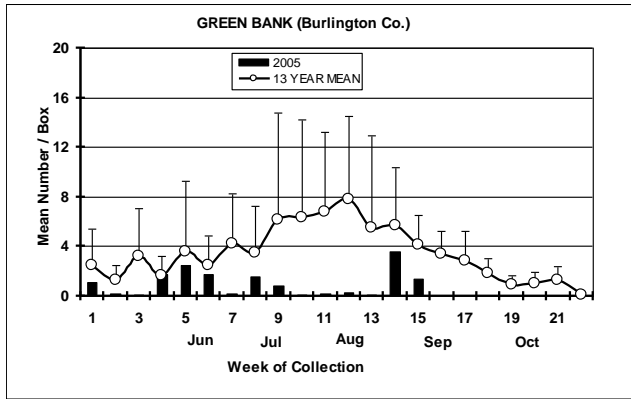
Collections submitted to PHEL for West Nile Virus testing

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	374	153	84	1,499	489	94	29	8	176	50	392	174	471	3,993
Total Specimens	12,238	2,152	1,549	57,320	9,129	1,254	362	123	792	1,882	2,139	1,462	5,483	95,885
No. Positive Pools	54	4	0	119	0	1	0	0	1	0	1	0	0	180

Remarks: *Culiseta melanura* populations remain static at the study sites being monitored for EEE activity in New Jersey with little evidence of additional amplification at the present time. The lower than normal levels of *Cs. melanura* at Waterford and Centerton have not favored the amplification process and virus has not yet been detected at either of those sites. EEE activity has been persistent in the Mullica River drainage (monitored by the Green Bank site) despite the fact that *Cs. melanura* populations have been extremely low. Floodwater bridge vectors have been stressed by lack of rain which has probably minimized the number of equine cases that NJ has experienced this year. County light trap data suggest that the horse cases reported in August, were probably transmitted by the summer cohort of *Cq. perturbans*, a permanent water bridge vector that reappeared in numbers last month. Surveillance, however, does indicate that WNV is now making contact with bridge vectors in some areas. Positives from *Ae. vexans* in Mercer Co. and *Oc. triseriatus*, in Middlesex Co. over the past week indicate that WNV is being picked up by mammal biting mosquitoes in some areas.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-15-05 Supported by State funds and funding by the NJ State Mosquito Control Commission. Summary Prepared by: Wayne J. Crans, Rutgers University
--

Culiseta melanura Population Graphs



**Mosquito Species Submitted for West Nile Virus Testing through
September 9, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	174	1462	
Ae. cinereus	2	7	
Ae. vexans	94	1254	1
An. atropos	1	10	
An. barberi	3	5	
An. bradleyi	25	378	
An. crucians	1	2	
An. earlei	1	16	
An. punctipennis	87	453	
An. quadrimaculatus	63	1252	
Cq. perturbans	82	1294	
Cs. inornata	1	1	
Cs. melanura	489	9129	
Cs. morsitans	1	4	
Cx. erraticus	28	758	
Cx. mix	1499	57320	119
Cx. pipiens	374	12238	54
Cx. restuans	153	2152	4
Cx. salinarius	84	1549	
Cx. territans	21	82	
Oc. abserratus	1	11	
Oc. atlanticus	8	22	
Oc. atropalpus	1	7	
Oc. canadensis	29	362	
Oc. cantator	21	51	
Oc. grossbecki	6	11	
Oc. japonicus	392	2139	1
Oc. mitchellae	1	1	
Oc. punctor	1	1	
Oc. sollicitans	50	1882	
Oc. sticticus	8	36	
Oc. stimulans	2	21	
Oc. taeniorhynchus	26	337	
Oc. triseriatus	176	792	1
Oc. trivittatus	8	123	
Or. signifera	5	6	
Ps. ciliata	7	25	
Ps. columbiae	31	322	
Ps. cyanescens	1	1	
Ps. ferox	29	329	
Ps. howardii	3	20	
Ur. sapphirina	4	20	
Grand Total	3993	95885	180

Submissions by County through September 9, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		223	6234	8
	Ae. albopictus	16	325	
	Ae. vexans	7	119	
	Cq. perturbans	13	402	
	Cs. melanura	58	530	
	Cx. erraticus	12	572	
	Cx. mix	70	3046	8
	Cx. salinarius	1	18	
	Cx. territans	1	2	
	Oc. atlanticus	2	11	
	Oc. cantator	1	5	
	Oc. japonicus	9	58	
	Oc. sollicitans	18	873	
	Oc. sticticus	1	5	
	Oc. taeniorhynchus	1	8	
	Oc. triseriatus	6	46	
	Or. signifera	1	2	
	Ps. ferox	6	212	
Bergen		223	12501	54
	Ae. albopictus	4	27	
	Ae. vexans	8	42	
	An. punctipennis	1	2	
	Cq. perturbans	2	6	
	Cs. melanura	4	72	
	Cx. mix	132	9900	42
	Cx. pipiens	44	2168	11
	Cx. restuans	8	67	1
	Cx. salinarius	9	173	
	Oc. cantator	1	2	
	Oc. japonicus	7	38	
	Oc. triseriatus	3	4	
Burlington		220	3061	2
	Ae. albopictus	18	224	
	Ae. cinereus	2	7	
	Ae. vexans	14	414	
	An. barberi	1	1	
	An. bradleyi	3	33	
	An. crucians	1	2	
	An. punctipennis	6	57	
	An. quadrimaculatus	5	17	
	Cq. perturbans	8	28	
	Cs. melanura	53	855	
	Cx. erraticus	4	20	
	Cx. mix	28	438	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	3	9	
	Oc. cantator	1	3	
	Oc. grossbecki	3	8	
	Oc. japonicus	14	120	
	Oc. mitchellae	1	1	
	Oc. sollicitans	4	275	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. taeniorhynchus	1	3	
	Oc. triseriatus	14	136	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	2	3	
	Ps. columbiae	9	137	
	Ps. cyanescens	1	1	
	Ps. ferox	1	9	
	Ps. howardii	2	19	
	Ur. sapphirina	1	12	
Camden		82	968	1
	Ae. albopictus	13	80	
	Ae. vexans	2	39	
	An. punctipennis	3	14	
	An. quadrimaculatus	4	9	
	Cs. melanura	19	123	
	Cx. mix	25	639	1
	Cx. pipiens	1	1	
	Oc. japonicus	13	61	
	Oc. triseriatus	1	1	
	Or. signifera	1	1	
Cape May		356	10469	1
	Ae. albopictus	16	75	
	Ae. vexans	1	8	
	An. bradleyi	9	304	
	An. punctipennis	1	75	
	An. quadrimaculatus	14	905	
	Cq. perturbans	10	143	
	Cs. melanura	163	5830	
	Cx. erraticus	2	51	
	Cx. mix	16	525	1
	Cx. pipiens	40	963	
	Cx. restuans	38	565	
	Cx. salinarius	21	643	
	Cx. territans	5	48	
	Oc. cantator	1	2	
	Oc. japonicus	3	9	
	Oc. sollicitans	6	169	
	Oc. taeniorhynchus	5	137	
	Oc. triseriatus	5	17	
Cumberland		150	689	0

	Ae. albopictus	2	2	
	Ae. vexans	2	2	
	An. bradleyi	3	7	
	An. punctipennis	6	8	
	An. quadrimaculatus	6	8	
	Cq. perturbans	1	1	
	Cs. melanura	55	179	
	Cx. mix	35	274	
	Oc. atlanticus	3	3	
	Oc. canadensis	3	3	
	Oc. cantator	4	5	
	Oc. grossbecki	1	1	
	Oc. sollicitans	1	1	
	Oc. sticticus	3	3	
	Oc. taeniorhynchus	18	182	
	Oc. triseriatus	1	1	
	Ps. ferox	6	9	
Essex		138	2614	8
	Ae. albopictus	13	46	
	Ae. vexans	8	133	
	An. quadrimaculatus	3	4	
	Cq. perturbans	1	1	
	Cx. mix	89	2289	8
	Oc. japonicus	17	118	
	Oc. sticticus	1	3	
	Oc. triseriatus	2	7	
	Oc. trivittatus	1	2	
	Ps. ciliata	1	9	
	Ps. ferox	2	2	
Gloucester		145	3080	2
	Ae. albopictus	7	17	
	Ae. vexans	2	2	
	An. punctipennis	4	6	
	An. quadrimaculatus	2	2	
	Cx. mix	1	45	
	Cx. pipiens	107	2915	2
	Oc. japonicus	17	86	
	Oc. triseriatus	4	6	
	Ps. columbiae	1	1	
Hudson		139	4307	21
	Cx. mix	139	4307	21
Hunterdon		184	6901	1
	Ae. vexans	2	2	
	An. bradleyi	1	10	
	An. punctipennis	6	12	
	An. quadrimaculatus	1	3	
	Cx. mix	129	6195	1
	Cx. pipiens	20	480	
	Cx. restuans	13	170	
	Cx. salinarius	1	4	
	Cx. territans	1	2	

	Oc. japonicus	9	22	
	Oc. triseriatus	1	1	
Mercer		290	7023	43
	Ae. albopictus	24	243	
	Ae. vexans	16	238	1
	An. bradleyi	1	2	
	An. punctipennis	9	26	
	An. quadrimaculatus	5	13	
	Cq. perturbans	2	66	
	Cs. melanura	3	7	
	Cx. erraticus	3	39	
	Cx. mix	20	1127	2
	Cx. pipiens	98	4156	37
	Cx. restuans	49	684	2
	Cx. salinarius	7	126	
	Oc. japonicus	34	113	1
	Oc. triseriatus	8	19	
	Oc. trivittatus	1	4	
	Ps. ciliata	1	6	
	Ps. columbiae	6	97	
	Ps. ferox	2	56	
	Ps. howardii	1	1	
Middlesex		273	7056	20
	Ae. albopictus	14	92	
	Ae. vexans	5	31	
	An. bradleyi	1	2	
	An. punctipennis	3	24	
	An. quadrimaculatus	3	10	
	Cq. perturbans	3	105	
	Cx. mix	136	5560	17
	Cx. pipiens	27	635	2
	Cx. restuans	14	261	
	Cx. salinarius	8	93	
	Cx. territans	1	1	
	Oc. japonicus	28	120	
	Oc. sollicitans	3	8	
	Oc. triseriatus	17	54	1
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	8	58	
Monmouth		334	4700	5
	Ae. albopictus	17	30	
	Ae. vexans	15	138	
	An. barberi	1	1	
	An. punctipennis	4	7	
	Cq. perturbans	5	9	
	Cs. melanura	66	925	
	Cx. erraticus	1	2	
	Cx. mix	102	2478	3
	Cx. pipiens	16	185	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		135	2967	1
	Ae. vexans	2	17	
	An. punctipennis	3	8	
	An. quadrimaculatus	1	1	
	Cq. perturbans	2	5	
	Cx. mix	72	2493	
	Cx. pipiens	2	115	
	Cx. restuans	2	47	1
	Oc. japonicus	36	214	
	Oc. triseriatus	14	63	
	Ps. ferox	1	4	
Ocean		254	5491	5
	Ae. albopictus	25	294	
	Ae. vexans	5	35	
	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	89	3770	5
	Cx. pipiens	3	186	
	Cx. restuans	9	91	
	Cx. salinarius	31	415	
	Cx. territans	2	3	
	Oc. atlanticus	1	5	
	Oc. canadensis	8	206	
	Oc. cantator	3	7	
	Oc. japonicus	30	158	
	Oc. sollicitans	3	103	
	Oc. triseriatus	15	54	
	Ps. columbiae	1	19	
	Ps. ferox	3	11	
Passaic		122	3586	5
	Ae. albopictus	3	4	
	An. punctipennis	2	3	
	Cx. mix	99	3287	5
	Oc. japonicus	14	271	
	Oc. triseriatus	4	21	
Salem		229	1939	0
	An. bradleyi	5	14	

	An. punctipennis	9	104	
	An. quadrimaculatus	11	237	
	Cq. perturbans	8	18	
	Cs. melanura	55	566	
	Cx. erraticus	5	67	
	Cx. mix	83	848	
	Cx. restuans	1	1	
	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		142	1576	0
	Ae. vexans	3	31	
	An. atropos	1	10	
	An. earlei	1	16	
	An. punctipennis	20	80	
	An. quadrimaculatus	2	6	
	Cq. perturbans	16	401	
	Cx. mix	34	662	
	Cx. pipiens	1	11	
	Cx. restuans	1	1	
	Oc. canadensis	2	23	
	Oc. grossbecki	1	1	
	Oc. japonicus	32	147	
	Oc. sticticus	1	16	
	Oc. triseriatus	21	87	
	Oc. trivittatus	4	78	
	Ur. sapphirina	2	6	
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		151	6345	0
	An. punctipennis	3	6	
	Cq. perturbans	2	32	
	Cs. inornata	1	1	
	Cx. mix	102	6058	
	Oc. japonicus	34	191	
	Oc. triseriatus	8	22	
	Oc. trivittatus	1	35	
Grand Total		3992	95883	180