

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 5

Culiseta melanura Monitor June 27 – July 3, 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.)	3.6	2.5	277	17	0	Waterford (Camden Co.)	2.1	<0.1	74	7	0
Corbin City (Atlantic Co.)	0.9	0.4	138	16	0	Centerton (Salem Co.)	2.2	1.2	90	13	0
Dennisville (Cape May Co.)	4.3	2.2	1,858	46	0	Turkey Swamp (Monmouth Co.)	0.1	1.9	121	18	0

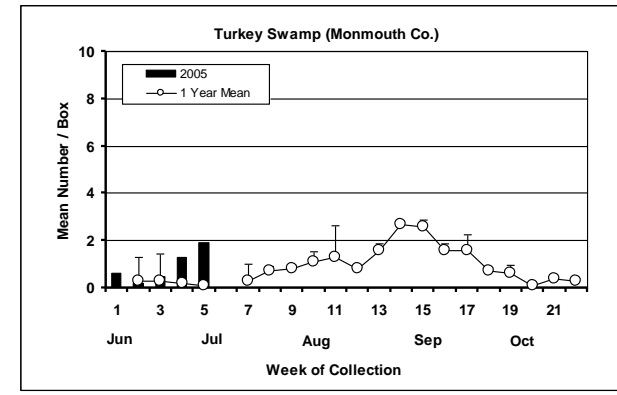
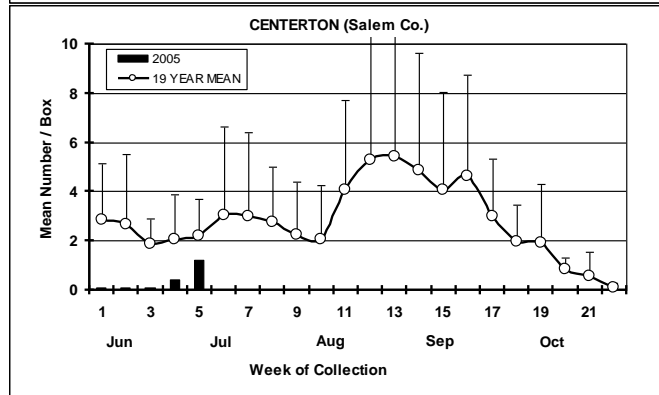
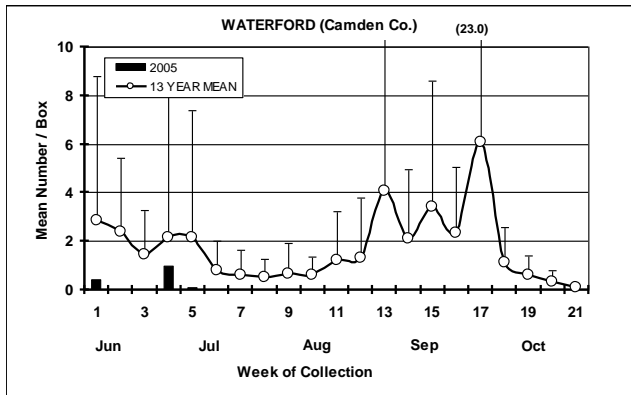
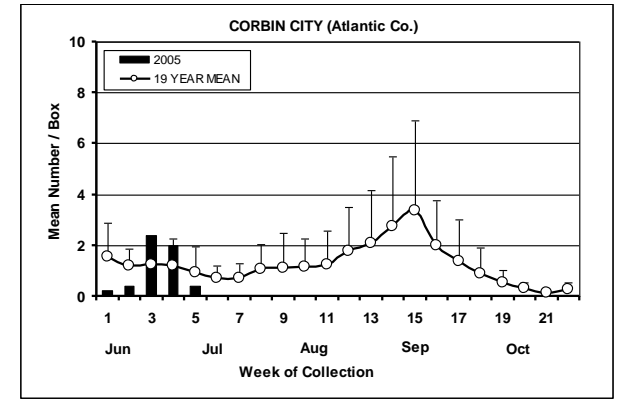
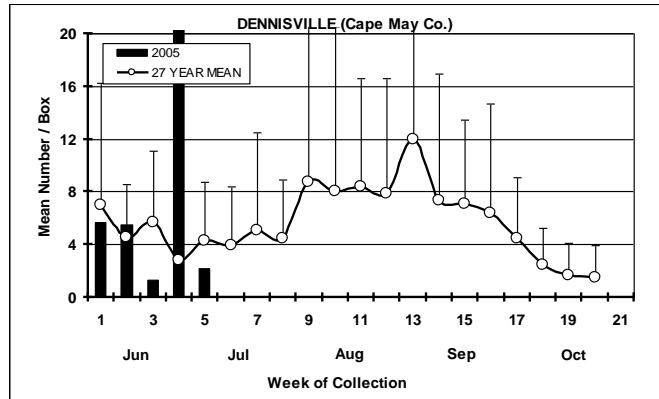
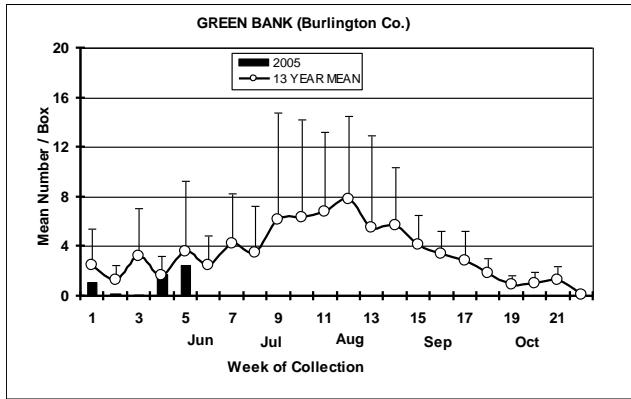
Collections submitted to PHEL for West Nile Virus testing

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	11	4	2	170	138	5	2	1	7	2	24	3	28	397
Total Specimens	365	68	35	5,891	2,877	34	76	4	11	14	77	17	144	9,613
No. Positive Pools	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Remarks: The unusually large emergence of adult *Cs. melanura* at Dennisville seen in last week's data set have dispersed and resting box collections have returned to normal levels at that site for this time of year. Populations appear to be rising at Turkey swamp in Monmouth Co., but population levels at that surveillance site are only based on 2 years of collection data. July is often a month of limited activity for both *Cs. melanura* and EEE virus. There appears to be enough mosquitoes to initiate amplification in local birds at some of the sites at the present time and long term trends show that populations should begin to increase steadily by late July or early August. County mosquito control agencies are now being encouraged to submit specimens weekly for WNV testing. With the loss of crows as a reliable indicator of virus activity, *Culex* mosquitoes have become the primary surveillance tool to track WNV during the mosquito season.

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



**Mosquito Species Submitted for West Nile Virus Testing through
July 1, 2005**

Species	Pools	Mosquitoes	Positives
Ae. albopictus	3	17	
Ae. cinereus	2	7	
Ae. vexans	5	34	
An. barberi	1	1	
An. punctipennis	3	10	
An. quadrimaculatus	2	2	
Cq. perturbans	7	66	
Cs. melanura	138	2877	
Cx. mix	170	5891	
Cx. pipiens	11	365	
Cx. restuans	4	68	
Cx. salinarius	2	35	
Oc. abserratus	1	11	
Oc. canadensis	2	76	
Oc. cantator	3	4	
Oc. grossbecki	3	8	
Oc. japonicus	24	77	
Oc. sollicitans	2	14	
Oc. sticticus	2	9	
Oc. stimulans	2	21	
Oc. triseriatus	7	11	
Oc. trivittatus	1	4	
Ps. ciliata	1	1	
Ps. columbiae	1	4	
Grand Total	397	9613	0

Submissions by County through July 1, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		31	709	0
	Cs. melanura	16	138	
	Cx. mix	11	550	
	Ae. albopictus	2	16	
	Oc. triseriatus	2	5	
Burlington		42	394	0
	Cs. melanura	17	277	
	Cx. mix	2	21	
	Oc. japonicus	1	1	
	An. punctipennis	2	6	
	Cq. perturbans	1	5	
	Ae. vexans	1	11	
	Oc. grossbecki	3	8	
	Oc. canadensis	1	1	
	An. quadrimaculatus	1	1	
	Oc. abserratus	1	11	
	Oc. stimulans	2	21	
	An. barberi	1	1	
	Ae. cinereus	2	7	
	Oc. sticticus	2	9	
	Cx. salinarius	1	3	
	Ps. ciliata	1	1	
	Oc. trivittatus	1	4	
	Ps. columbiae	1	4	
	Oc. triseriatus	1	2	
Camden		17	290	0
	Cs. melanura	7	74	
	Cx. mix	6	203	
	Oc. japonicus	3	12	
	Ae. albopictus	1	1	
Cape May		57	2207	0
	Cs. melanura	54	2144	
	Cq. perturbans	1	21	
	Cx. salinarius	1	32	
	Cx. restuans	1	10	
Cumberland		15	37	0
	Cs. melanura	13	33	
	Cx. mix	2	4	
Gloucester		15	371	0
	Oc. japonicus	2	4	
	Ae. vexans	1	1	
	Oc. triseriatus	1	1	
	Cx. pipiens	11	365	

Hudson		21	264	0
	Cx. mix	21	264	
Middlesex		59	2387	0
	Cx. mix	55	2371	
	Oc. japonicus	4	16	
Monmouth		48	746	0
	Cs. melanura	18	121	
	Cx. mix	19	589	
	Oc. japonicus	4	12	
	Ae. vexans	1	5	
	Oc. triseriatus	1	1	
	Oc. cantator	3	4	
	Oc. sollicitans	2	14	
Morris		18	376	0
	Cx. mix	9	344	
	Oc. japonicus	5	10	
	Cq. perturbans	1	4	
	Ae. vexans	2	17	
	Oc. triseriatus	1	1	
Ocean		15	405	0
	Cx. mix	11	272	
	Oc. canadensis	1	75	
	Cx. restuans	3	58	
Salem		28	188	0
	Cs. melanura	13	90	
	Cx. mix	9	90	
	Oc. japonicus	2	2	
	Cq. perturbans	2	4	
	An. quadrimaculatus	1	1	
	Oc. triseriatus	1	1	
Somerset		3	114	0
	Cx. mix	3	114	
Sussex		6	71	0
	Cx. mix	5	66	
	Oc. japonicus	1	5	
Warren		22	1054	0
	Cx. mix	17	1003	
	Oc. japonicus	2	15	
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
Grand Total		397	9613	0