

VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 8

Culiseta melanura Monitor

July 18 - 24, 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.)	3.5	1.6	453	29	0	Waterford (Camden Co.)	0.5	0.1	90	12	0
Corbin City (Atlantic Co.)	1.1	0.6	204	26	0	Centerton (Salem Co.)	2.8	0.5	261	26	0
Dennisville (Cape May Co.)	4.5	3.8	2,496	65	0	Turkey Swamp (Monmouth Co.)	0.7	5.4	354	31	0

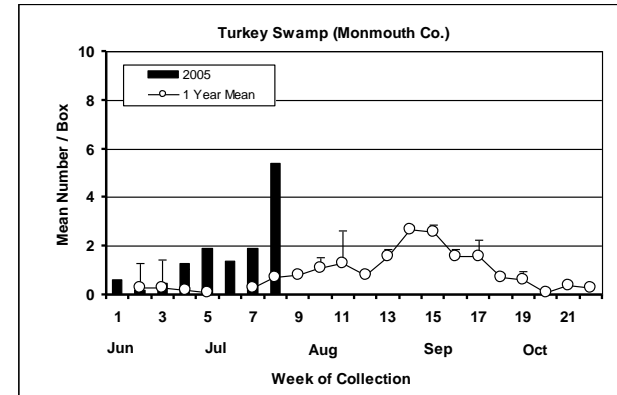
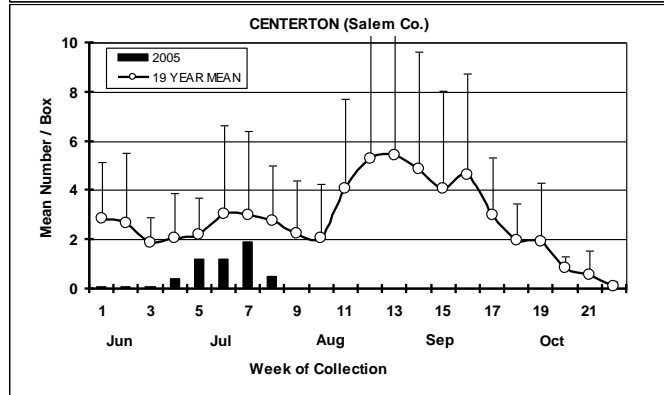
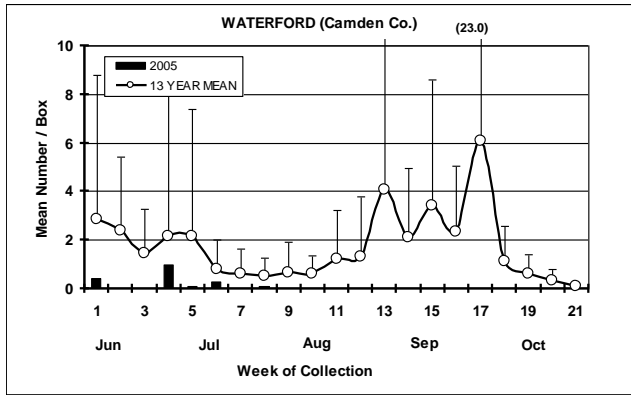
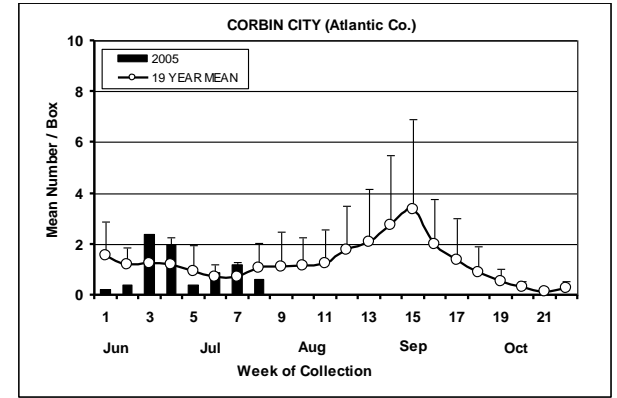
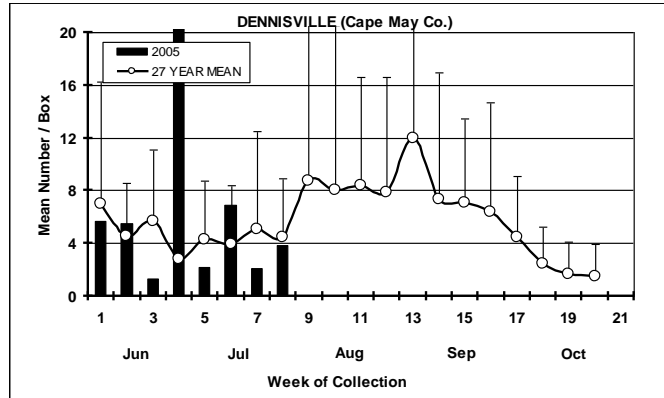
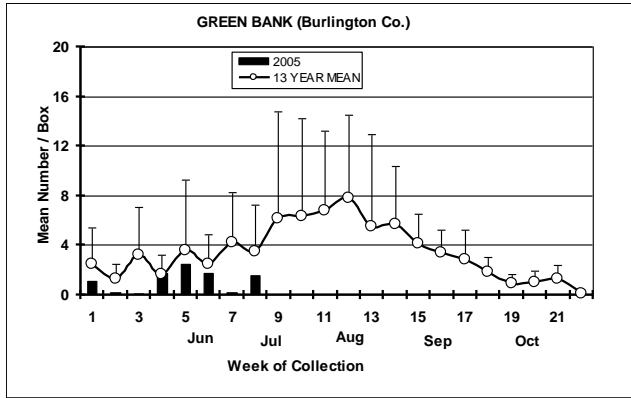
Collections submitted to PHEL for West Nile Virus testing

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	56	55	9	505	251	12	3	2	28	5	111	14	81	1,132
Total Specimens	1,765	1,115	96	20,357	4,670	211	77	39	137	129	547	80	1,009	30,232
No. Positive Pools	0	0	0	2	0	0	0	0	0	0	0	0	0	2
MFIR	0	0	0	0.10	0	0	0	0	0	0	0	0	0	0.07

Remarks: As we approach mid-season, *Culiseta melanura* populations remain high enough to initiate amplification of EEE at most sites if virus appears in resident bird populations. The trend is most evident at Turkey Swamp, in Monmouth Co., where numbers have been increasing steadily during the month of July. Reports from other states suggest that EEE will probably appear in NJ before the end of the season. The virus has been active in the southern USA since May and was recently isolated from *Cs. melanura* in upper New York state. WNV appeared in *Culex* mosquitoes in 2 different NJ counties during the second week of July, the 1st evidence for WNV amplification in our area this season. The positives came from pools of mixed *Culex* from Trenton, in Mercer Co., and Hackensack, in Bergen Co. Connecticut reported a positive from a pool of *Cx. restuans* that were collected during the same week.

New Jersey Agricultural Experiment Station Publication No. PT-08-40500-08-05 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 22, 2005

Species	Pools	Mosquitoes	Positives
Ae. albopictus	14	80	
Ae. cinereus	2	7	
Ae. vexans	12	211	
An. barberi	2	2	
An. punctipennis	12	48	
An. quadrimaculatus	11	62	
Cq. perturbans	27	700	
Cs. melanura	251	4670	
Cs. morsitans	1	4	
Cx. mix	505	20357	2
Cx. pipiens	56	1765	
Cx. restuans	55	1115	
Cx. salinarius	9	96	
Oc. abserratus	1	11	
Oc. atlanticus	1	5	
Oc. canadensis	3	77	
Oc. cantator	5	6	
Oc. grossbecki	5	10	
Oc. japonicus	111	547	
Oc. mitchellae	1	1	
Oc. sollicitans	5	129	
Oc. sticticus	3	10	
Oc. stimulans	2	21	
Oc. taeniorhynchus	1	7	
Oc. triseriatus	28	137	
Oc. trivittatus	2	39	
Or. signifera	1	1	
Ps. ciliata	1	1	
Ps. columbiae	2	9	
Ps. ferox	3	104	
Grand Total	1132	30232	2

Submissions by County through July 22, 2005

County	Species	Pools	Mosquitoes	Positives
Atlantic		71	1848	0
	Ae. albopictus	4	45	
	Ae. vexans	2	50	
	Cq. perturbans	6	253	
	Cs. melanura	27	210	
	Cx. mix	25	1147	
	Oc. japonicus	2	10	
	Oc. triseriatus	3	33	
	Ps. ferox	2	100	
Bergen		51	3722	1
	Cx. mix	45	3375	1
	Cx. pipiens	4	300	
	Cx. restuans	1	45	
	Cx. salinarius	1	2	
Burlington		76	765	0
	Ae. albopictus	2	15	
	Ae. cinereus	2	7	
	Ae. vexans	3	93	
	An. barberi	1	1	
	An. punctipennis	2	6	
	An. quadrimaculatus	2	2	
	Cq. perturbans	3	8	
	Cs. melanura	29	453	
	Cx. mix	8	64	
	Cx. pipiens	1	2	
	Cx. salinarius	1	3	
	Oc. abserratus	1	11	
	Oc. canadensis	1	1	
	Oc. grossbecki	3	8	
	Oc. japonicus	2	20	
	Oc. mitchellae	1	1	
	Oc. sticticus	2	9	
	Oc. stimulans	2	21	
	Oc. triseriatus	5	25	
	Oc. trivittatus	1	4	
	Or. signifera	1	1	
	Ps. ciliata	1	1	
	Ps. columbiae	2	9	
Camden		27	424	0
	Ae. albopictus	1	1	
	Cs. melanura	12	90	
	Cx. mix	9	314	
	Oc. japonicus	5	19	
Cape May		124	3853	0
	Ae. albopictus	1	5	
	Ae. vexans	1	8	

	An. quadrimaculatus	1	48	
	Cq. perturbans	3	83	
	Cs. melanura	87	3186	
	Cx. pipiens	4	36	
	Cx. restuans	24	438	
	Cx. salinarius	2	45	
	Oc. triseriatus	1	4	
Cumberland		60	143	0
	An. punctipennis	5	7	
	An. quadrimaculatus	5	7	
	Cs. melanura	38	114	
	Cx. mix	8	11	
	Oc. canadensis	1	1	
	Oc. cantator	1	1	
	Oc. grossbecki	1	1	
	Oc. sticticus	1	1	
Essex		23	293	0
	Ae. albopictus	3	9	
	Ae. vexans	1	9	
	Cx. mix	14	260	
	Oc. japonicus	5	15	
Gloucester		45	973	0
	Ae. vexans	1	1	
	An. punctipennis	1	2	
	Cx. pipiens	31	917	
	Oc. japonicus	9	48	
	Oc. triseriatus	3	5	
Hudson		46	1008	0
	Cx. mix	46	1008	
Hunterdon		35	1686	0
	Cx. mix	35	1686	
Mercer		45	1304	1
	Ae. albopictus	2	4	
	An. punctipennis	1	7	
	An. quadrimaculatus	1	3	
	Cs. melanura	1	2	
	Cx. mix	13	637	1
	Cx. pipiens	8	390	
	Cx. restuans	16	245	
	Cx. salinarius	1	9	
	Oc. japonicus	2	7	
Middlesex		79	3022	0
	Cx. mix	63	2732	
	Cx. pipiens	3	27	
	Cx. restuans	5	233	
	Oc. japonicus	6	19	
	Oc. triseriatus	2	11	

Monmouth	91	1651	0
Ae. vexans	2	33	
An. barberi	1	1	
Cq. perturbans	1	2	
Cs. melanura	31	354	
Cx. mix	35	1086	
Oc. cantator	4	5	
Oc. japonicus	7	18	
Oc. sollicitans	5	129	
Oc. taeniorhynchus	1	7	
Oc. triseriatus	4	16	
Morris	48	1100	0
Ae. vexans	2	17	
Cq. perturbans	2	5	
Cx. mix	26	1026	
Oc. japonicus	16	47	
Oc. triseriatus	1	1	
Ps. ferox	1	4	
Ocean	45	1203	0
Cs. morsitans	1	4	
Cx. mix	28	980	
Cx. restuans	5	73	
Cx. salinarius	4	37	
Oc. atlanticus	1	5	
Oc. canadensis	1	75	
Oc. japonicus	5	29	
Passaic	37	1566	0
Cx. mix	28	1463	
Oc. japonicus	7	92	
Oc. triseriatus	2	11	
Salem	69	730	0
An. punctipennis	1	1	
An. quadrimaculatus	1	1	
Cq. perturbans	4	8	
Cs. melanura	26	261	
Cx. mix	27	441	
Oc. japonicus	9	17	
Oc. triseriatus	1	1	
Somerset	48	1028	0
Cx. mix	33	938	
Oc. japonicus	11	64	
Oc. triseriatus	4	26	
Sussex	36	821	0
An. punctipennis	1	21	
Cq. perturbans	6	309	
Cx. mix	16	412	
Cx. pipiens	1	11	

	Oc. japonicus	11	65	
	Oc. triseriatus	1	3	
Union		16	258	0
	Ae. albopictus	1	1	
	An. quadrimaculatus	1	1	
	Cx. mix	2	85	
	Cx. pipiens	4	82	
	Cx. restuans	4	81	
	Oc. grossbecki	1	1	
	Oc. japonicus	3	7	
Warren		60	2834	0
	An. punctipennis	1	4	
	Cq. perturbans	2	32	
	Cx. mix	44	2692	
	Oc. japonicus	11	70	
	Oc. triseriatus	1	1	
	Oc. trivittatus	1	35	
Grand Total		1132	30232	2

