

VECTOR SURVEILLANCE IN NEW JERSEY
EEE and WNV
CDC WEEK 24: June 8 to June 14, 2008

Culiseta melanura and Eastern Equine Encephalitis

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.)	1.1	< 0.1	13	8	0	Waterford (Camden Co.)	2.1	0	0	0	0
Corbin City (Atlantic Co.)	1.2	1.8	65	11	0	Centerton (Salem Co.)	2.4	0.1	45	9	0
Dennisville (Cape May Co.)	4.4	2.6	291	11	0	Turkey Swamp (Monmouth Co.)	0.7	0.1	18	6	0

*Including trial run last week in May.

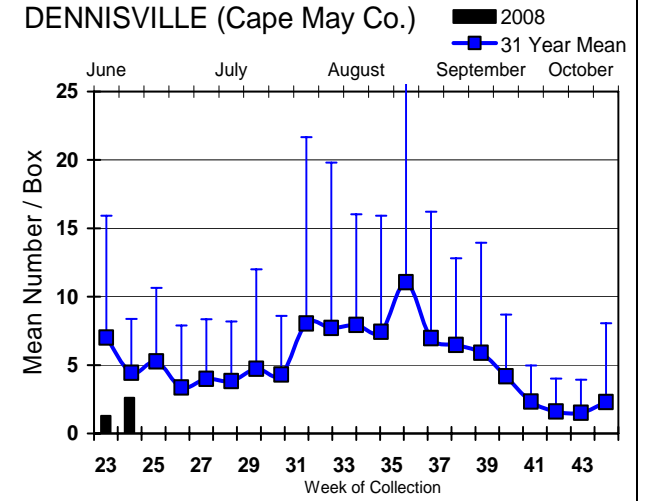
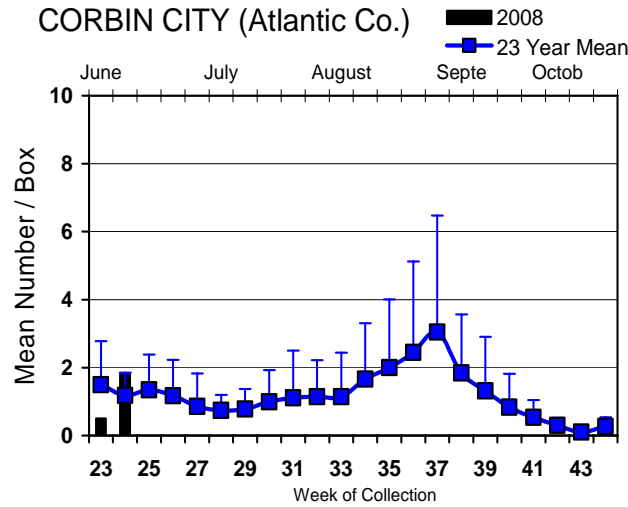
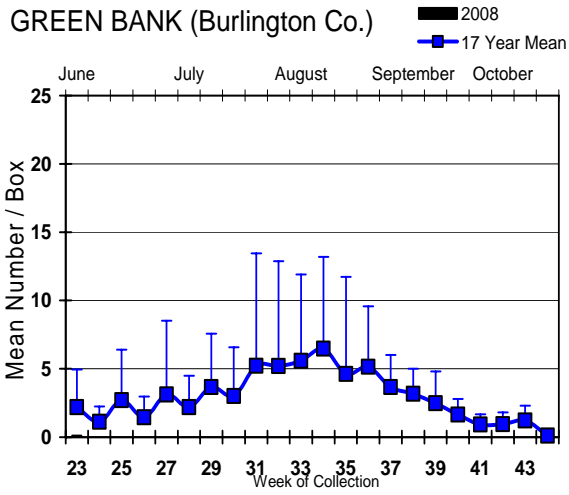
Remarks: *Culiseta melanura* populations have been observed at 5 of the 6 traditional monitoring sites in southern New Jersey. At Corbin City, the population appears higher than historical trends suggest, but this value is within the range of deviation not to be considered significantly different. The same can be said of those values that appear to be lower than their associated historical values, including the zero values recorded at the Waterford site during the past two collection weeks (see graphs next page).

To date, 45 pools from 432 mosquitoes have been sent for EEE testing from the resting box collections. No positives have been detected from these pools or from pools submitted by the counties.

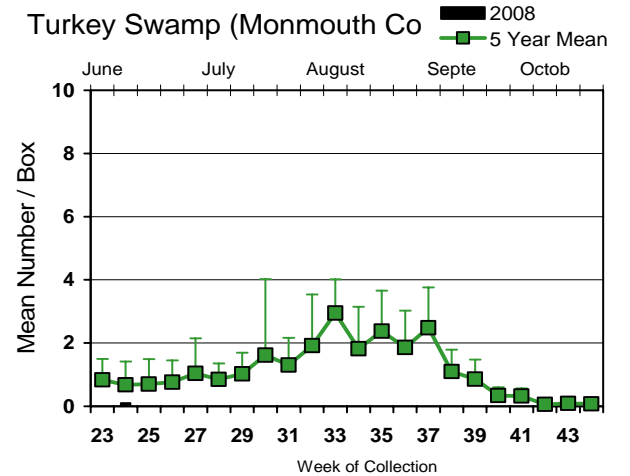
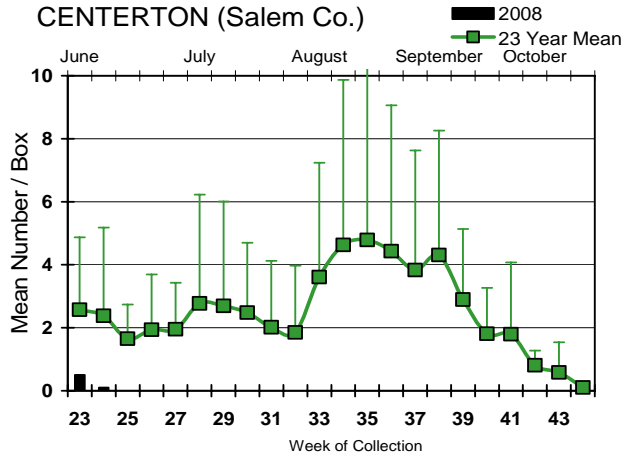
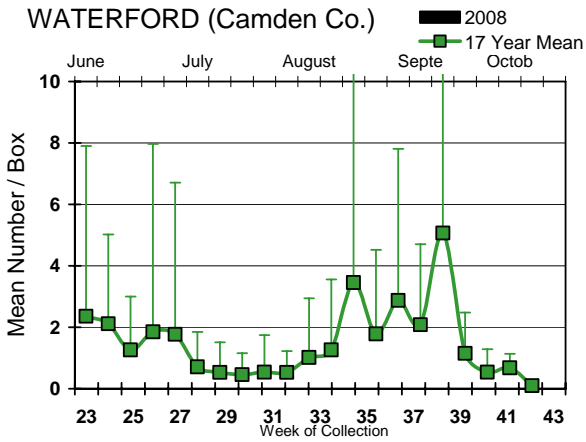
Last year, activity was disseminated well through the southern half of the state. One horse, a six year old gelding in Atlantic County, was the single positive equine EEE case in New Jersey. There were no reported human cases.

Culiseta melanura Population Graphs

Coastal



Inland



Figures: Inland and coastal resting box sites showing current weekly population levels (in bars) against historical trends (lines with standard deviation). The number of years for historical population levels varies by site.

EEE in US (2008 cumulative cases):

- equine: 2 (AL), 22(FL), 3(GA)
- mosquito: 3(FL, also reporting Highlands J, a virus with similar transmission modes as EEE, but is generally not associated with illness in humans.)
- sentinel: 31(FL, 22 wild)
- human:

West Nile Virus

West Nile in US (2008 cumulative cases): Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**.

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama				1	
Alaska					
Arizona		2	9		1
Arkansas					
California	100/133	23/33	2		
Colorado					
Connecticut					
Delaware					
Florida	2 live		2		
Georgia					
Hawaii					
Idaho					
Illinois		2/5			
Indiana		2			
Iowa					
Kansas					
Kentucky					
Louisiana		251			
Maine					
Maryland					
Mass.					
Michigan	*				
Minnesota					
Mississippi					3/4
Missouri					
Montana					
Nebraska					

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Nevada					
New Hampshire					
New Jersey					
New Mexico					
New York					
North Carolina					
North Dakota					
Ohio					
Oklahoma					1
Oregon					
Pennsylvania		1			
Rhode Island					
South Carolina	2				
South Dakota					
Tennessee		2/4			1
Texas		5/11			2
Utah	1	7			
Vermont					
Virginia					
Washington					
West Virginia					
Wisconsin					
Wyoming					

* errata - previous week reported number tested, not positive.

Protocol: New Jersey Department of Health and Senior Services tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted for West Nile Virus Testing through 13 June 2008

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes abserratus</i>	1	9		
<i>Aedes canadensis canadensis</i>	7	238		
<i>Aedes cantator</i>	2	7		
<i>Aedes japonicus</i>	3	4		
<i>Aedes thibaulti</i>	2	9		
<i>Aedes vexans</i>	3	8		
<i>Anopheles bradleyi</i>	4	21		
<i>Anopheles punctipennis</i>	7	34		
<i>Anopheles quadrimaculatus</i>	3	151		
<i>Culex erraticus</i>	1	2		
<i>Culex pipiens</i>	8	53		
<i>Culex restuans</i>	28	828		

<i>Culex salinarius</i>	9	26
<i>Culex territans</i>	1	4
<i>Culiseta melanura</i>	45	447
Grand Total	124	1841

Remarks: None of the 1841 mosquitoes in the initial 124 pools submitted prior to the July start of the season were found positive for West Nile virus. Submissions are from 15 different species and are from 9 counties of the state.

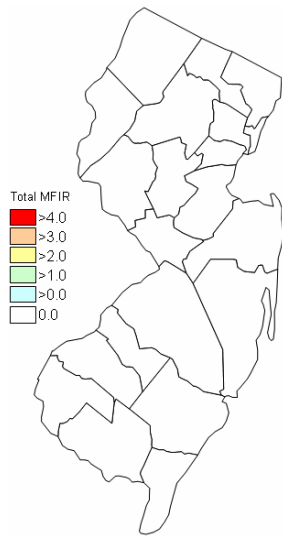
Humans and Livestock: No cases have been reported. At this point in time, there have been 22 dead birds submitted for West Nile virus testing, none positive. Twenty of the 26 were corvids.

2008 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
0/124	0 / 156

WNV Results by County through 13 June 2008

County	Species	Pools	Mosquitoes	Positives	MFIR
Atlantic		16	106		
	<i>Aedes thibaulti</i>	1	4		
	<i>Anopheles bradleyi</i>	1	1		
	<i>Culex restuans</i>	2	32		
	<i>Culex territans</i>	1	4		
	<i>Culiseta melanura</i>	11	65		
Bergen		5	14		
	<i>Culex pipiens</i>	2	4		
	<i>Culex restuans</i>	2	9		
	<i>Culex salinarius</i>	1	1		
Burlington		6	13		
	<i>Culiseta melanura</i>	6	13		
Camden		3	8		
	<i>Culex restuans</i>	3	8		
Cape May		25	682		
	<i>Aedes cantator</i>	2	7		
	<i>Anopheles bradleyi</i>	2	19		
	<i>Anopheles punctipennis</i>	2	16		
	<i>Anopheles quadrimaculatus</i>	2	150		
	<i>Culex erraticus</i>	1	2		
	<i>Culex restuans</i>	3	186		
	<i>Culex salinarius</i>	2	11		
	<i>Culiseta melanura</i>	11	291		
Cumberland		0	0		
Essex		0	0		
Gloucester		38	843		
	<i>Aedes abserratus</i>	1	9		
	<i>Aedes canadensis canadensis</i>	6	237		
	<i>Aedes japonicus</i>	3	4		
	<i>Aedes thibaulti</i>	1	5		

	<i>Aedes vexans</i>	2	7		
	<i>Anopheles bradleyi</i>	1	1		
	<i>Anopheles punctipennis</i>	2	6		
	<i>Culex pipiens</i>	4	8		
	<i>Culex restuans</i>	12	540		
	<i>Culex salinarius</i>	4	11		
	<i>Culiseta melanura</i>	2	15		
Hudson		0	0		
Hunterdon		0	0		
Mercer		0	0		
Middlesex		2	57		
	<i>Culex pipiens</i>	1	38		
	<i>Culex restuans</i>	1	19		
Monmouth		16	60		
	<i>Aedes canadensis canadensis</i>	1	1		
	<i>Aedes vexans</i>	1	1		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Culex pipiens</i>	1	3		
	<i>Culex restuans</i>	4	33		
	<i>Culex salinarius</i>	2	3		
	<i>Culiseta melanura</i>	6	18		
Morris		0	0		
Ocean		0	0		
Passaic		0	0		
Salem		13	58		
	<i>Anopheles punctipennis</i>	2	11		
	<i>Anopheles quadrimaculatus</i>	1	1		
	<i>Culex restuans</i>	1	1		
	<i>Culiseta melanura</i>	9	45		
Somerset		0	0		
Sussex		0	0		
Union		0	0		
Warren		0	0		
Grand Total		124	1841		



Activity this week.