

**VECTOR SURVEILLANCE SUMMARY SHEET**  
**EEE and WNV in New Jersey**  
**WEEK 4: June 24 to 30, 2007**



*Culiseta melanura* (Coquillett) 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.)	1.5	0.2	113	14	-	Waterford (Camden Co.)	2.0	0.1	265	15	-
Corbin City (Atlantic Co.)	1.2	0.8	241	19	-	Centerton (Salem Co.)	2.0	1.3	290	18	-
Dennisville (Cape May Co.)	3.4	2.7	896	27	-	Turkey Swamp (Monmouth Co.)	0.8	0.8	203	19	-

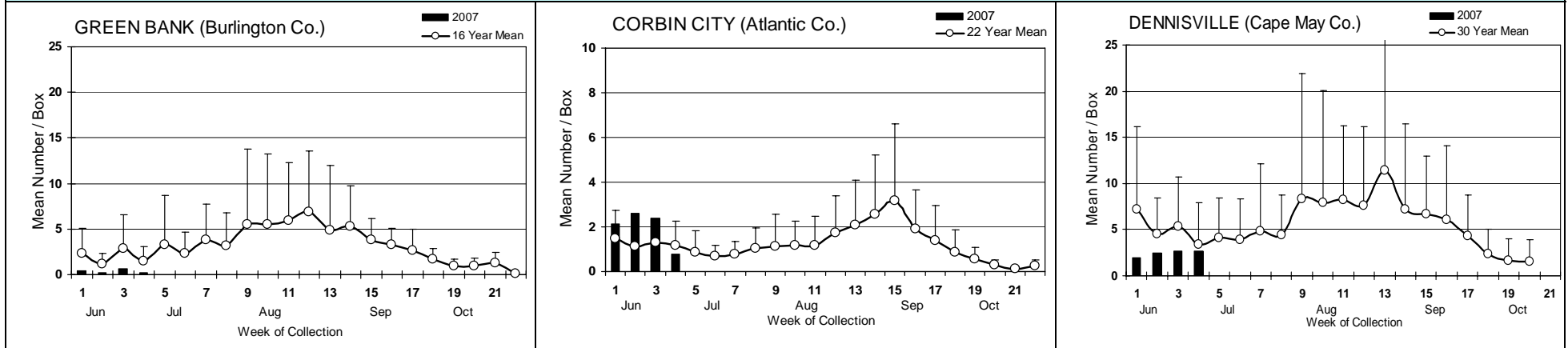
\*Including trial run last week in May.

**Remarks:** *Culiseta melanura* populations continue to remain within standard variations of their historical means. Warm and humid weather has helped maintain average numbers of *Cs. melanura* within the resting boxes. Rainy conditions on Wednesday may have contributed to the drop in *Cs. melanura* at Waterford. One hundred and twelve pools of *Cs. melanura* have been tested for EEE and no pools have tested positive to date.

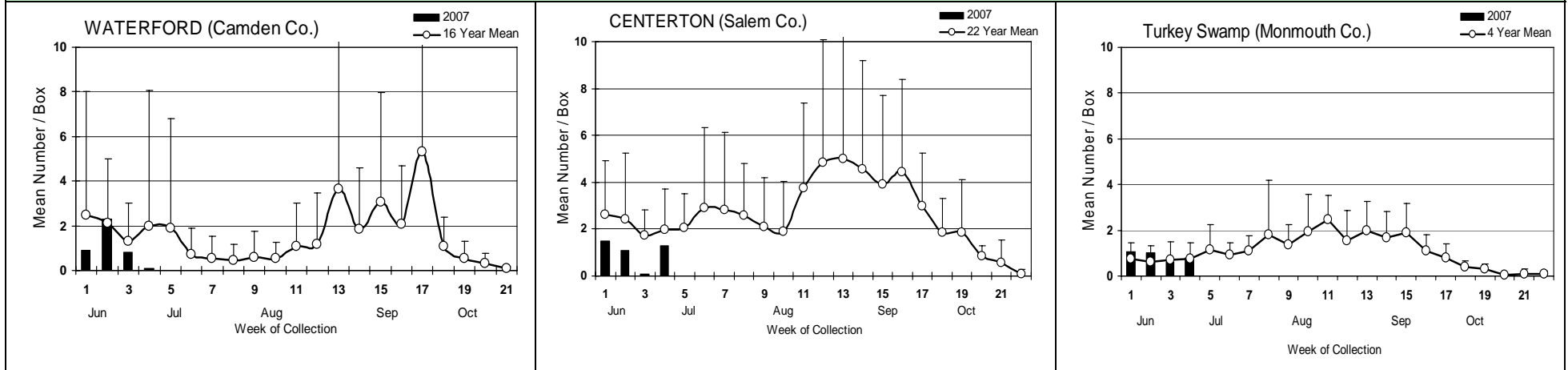
Supported by funding from the NJ State Mosquito Control Commission. Summary Prepared by Lisa M. Reed, Scott Crans and Dina Fonseca at the Center for Vector Biology, Rutgers University
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# Culiseta melanura Population Graphs

## 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 (2007 cumulative cases):** New Reports are in red.

- equine: 4(FL)
- mosquito: 0
- sentinel: 22(FL)
- human: 0

## Mosquito Species Submitted for West Nile Virus Testing through 29 June 2007

Species	Pools	Mosquitoes	Positives
<i>Aedes albopictus</i>	9	16	
<i>Aedes canadensis</i>	12	589	
<i>Aedes cantator</i>	2	7	
<i>Aedes cinereus</i>	1	4	
<i>Aedes japonicus</i>	10	29	
<i>Aedes sticticus</i>	6	245	
<i>Aedes thibaulti</i>	2	3	
<i>Aedes triseriatus</i>	5	13	
<i>Aedes vexans</i>	9	154	
<i>Anopheles bradleyi</i>	2	23	
<i>Anopheles punctipennis</i>	11	43	
<i>Anopheles quadrimaculatus</i>	14	660	
<i>Coquillettidia perturbans</i>	6	76	
<i>Culex pipiens</i>	17	360	
<i>Culex restuans</i>	22	195	
<i>Culex salinarius</i>	9	21	
<i>Culex sp.</i>	44	1728	
<i>Culex territans</i>	3	7	
<i>Culiseta melanura</i>	118	2041	
<b>Grand Total</b>	<b>302</b>	<b>6214</b>	<b>0</b>

**Remarks:** To date, there have been 6214 mosquitoes submitted for testing in 302 pools. Submissions include 18 different species from 13 counties. Recent positives in *Cx. restuans* in Pennsylvania suggest that New Jersey should expect to see its first positive pools of *Culex* in the next coming weeks. No positive pools were found among the 302 pools submitted to date.

**West Nile in US (2007 cumulative cases):** New reports are indicated in red.

- dead bird: CA(25) MS(3) AZ (1)
- equine: CA(1), TN(1), TX(1)
- mosquito: CA(4), ID(2), IL(3), IN(8), TX(1), VA(1), PA (2)
- sentinel: CA(2), FL(3).
- human: IA(1), MS(4), SD(1)

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

Submission for West Nile Testing by County through 29 June 2007

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>20</b>	<b>242</b>	<b>0</b>
	<i>Culex restuans</i>	1	1	
	<i>Culiseta melanura</i>	19	241	
<b>Burlington</b>		<b>36</b>	<b>351</b>	<b>0</b>
	<i>Aedes albopictus</i>	1	1	
	<i>Aedes canadensis canadensis</i>	2	7	
	<i>Aedes japonicus</i>	1	1	
	<i>Aedes triseriatus</i>	2	8	
	<i>Aedes vexans</i>	1	2	
	<i>Anopheles punctipennis</i>	2	3	
	<i>Coquillettidia perturbans</i>	4	73	
	<i>Culex pipiens</i>	2	7	
	<i>Culex restuans</i>	4	131	
	<i>Culex salinarius</i>	3	4	
	<i>Culiseta melanura</i>	14	114	
<b>Camden</b>		<b>20</b>	<b>281</b>	<b>0</b>
	<i>Anopheles punctipennis</i>	3	14	
	<i>Anopheles quadrimaculatus</i>	1	1	
	<i>Culex restuans</i>	1	1	
	<i>Culiseta melanura</i>	15	265	
<b>Cape_May</b>		<b>51</b>	<b>1582</b>	<b>0</b>
	<i>Aedes cantator</i>	1	2	
	<i>Anopheles bradleyi</i>	2	23	
	<i>Anopheles punctipennis</i>	1	1	
	<i>Anopheles quadrimaculatus</i>	10	648	
	<i>Culex restuans</i>	3	6	
	<i>Culex salinarius</i>	3	11	
	<i>Culex territans</i>	2	5	
	<i>Culiseta melanura</i>	29	886	
<b>Essex</b>		<b>2</b>	<b>6</b>	<b>0</b>
	<i>Culex sp.</i>	2	6	

<b>Gloucester</b>		<b>16</b>	<b>354</b>	<b>0</b>
	<i>Culex pipiens</i>	13	350	
	<i>Aedes japonicus</i>	3	4	
<b>Hudson</b>		<b>15</b>	<b>801</b>	<b>0</b>
	<i>Culex sp.</i>	15	801	
<b>Monmouth</b>		<b>47</b>	<b>634</b>	<b>0</b>
	<i>Aedes albopictus</i>	2	2	
	<i>Aedes canadensis canadensis</i>	4	240	
	<i>Aedes cantator</i>	1	5	
	<i>Aedes japonicus</i>	1	1	
	<i>Aedes sticticus</i>	1	7	
	<i>Aedes triseriatus</i>	1	1	
	<i>Aedes vexans</i>	3	84	
	<i>Culex restuans</i>	4	19	
	<i>Culex salinarius</i>	1	2	
	<i>Culex sp.</i>	8	45	
	<i>Culex territans</i>	1	2	
	<i>Culiseta melanura</i>	20	226	
<b>Ocean</b>		<b>24</b>	<b>425</b>	<b>0</b>
	<i>Aedes albopictus</i>	3	10	
	<i>Aedes canadensis canadensis</i>	5	339	
	<i>Aedes japonicus</i>	2	5	
	<i>Aedes sticticus</i>	1	17	
	<i>Aedes triseriatus</i>	2	4	
	<i>Aedes vexans</i>	2	13	
	<i>Coquillettidia perturbans</i>	1	2	
	<i>Culex restuans</i>	4	14	
	<i>Culex salinarius</i>	1	2	
	<i>Culiseta melanura</i>	3	19	
<b>Salem</b>		<b>28</b>	<b>322</b>	<b>0</b>
	<i>Aedes canadensis canadensis</i>	1	3	
	<i>Aedes thibaulti</i>	2	3	
	<i>Anopheles punctipennis</i>	3	13	

	<i>Anopheles quadrimaculatus</i>	3	11	
	<i>Culex restuans</i>	1	2	
	<i>Culiseta melanura</i>	18	290	
<b>Somerset</b>		<b>12</b>	<b>296</b>	<b>0</b>
	<i>Aedes cinereus</i>	1	4	
	<i>Aedes japonicus</i>	1	2	
	<i>Aedes sticticus</i>	4	221	
	<i>Aedes vexans</i>	3	55	
	<i>Anopheles punctipennis</i>	1	10	
	<i>Culex restuans</i>	1	2	
	<i>Culex salinarius</i>	1	2	
<b>Union</b>		<b>15</b>	<b>351</b>	<b>0</b>
	<i>Aedes albopictus</i>	3	3	
	<i>Aedes japonicus</i>	2	16	
	<i>Culex sp.</i>	10	332	
<b>Warren</b>		<b>16</b>	<b>569</b>	<b>0</b>
	<i>Anopheles punctipennis</i>	1	2	
	<i>Coquillettidia perturbans</i>	1	1	
	<i>Culex pipiens</i>	2	3	
	<i>Culex restuans</i>	3	19	
	<i>Culex sp.</i>	9	544	
<b>Grand Total</b>		<b>302</b>	<b>6214</b>	<b>0</b>