

VECTOR SURVEILLANCE SUMMARY SHEET  
 EEE and WNV in New Jersey  
 WEEK 3: June 17 - 23, 2007



*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.)	2.8	0.6	103	12	-	Waterford (Camden Co.)	1.3	0.8	263	14	-
Corbin City (Atlantic Co.)	1.3	2.4	220	16	-	Centerton (Salem Co.)	1.7	0.1	212	14	-
Dennisville (Cape May Co.)	5.4	2.7	762	21	-	Turkey Swamp (Monmouth Co.)	0.7	0.6	165	15	-

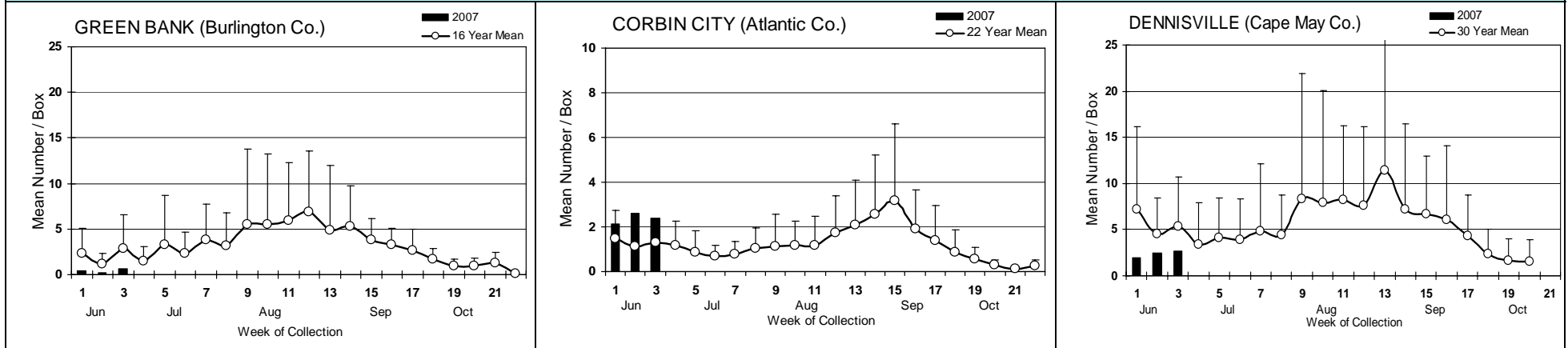
\*Including trial run last week in May.

Remarks: *Culiseta melanura* populations continue to remain within standard variations of their historical means, with the exception of Centerton (see graphs, next page) where populations have dipped to very low numbers. Light trap data near this inland locale also indicates a smaller local population. Ninety-two pools of *Cs. melanura* have been tested for EEE and no pools have tested positive to date.

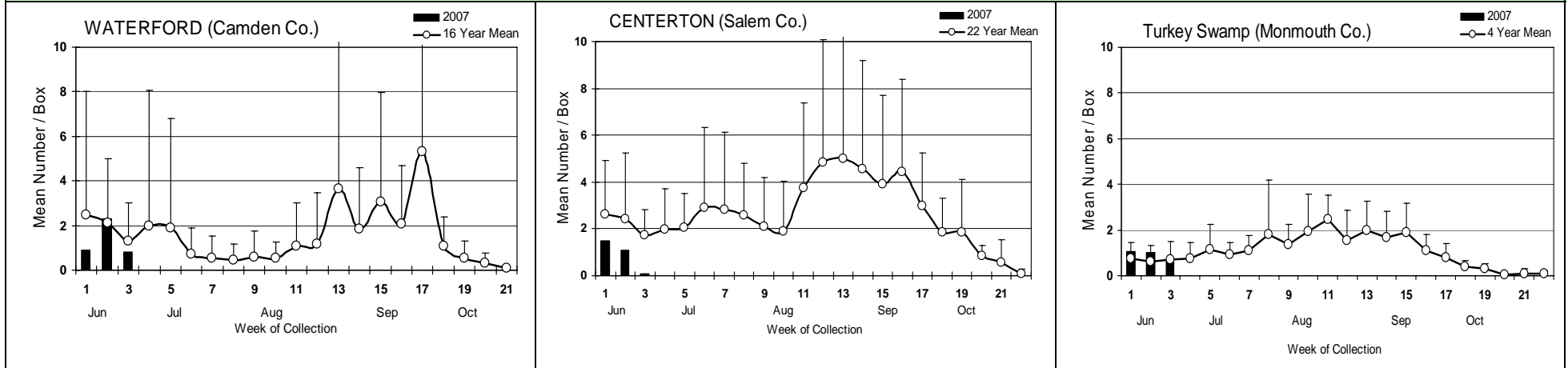
Supported by funding from the NJ State Mosquito Control Commission. Prepared by Lisa M. Reed, Scott Crans and Dina Fonseca at the Center for Vector Biology, Rutgers University

# 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):

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

## Mosquito Species Submitted for West Nile Virus Testing through 22 June 2007

Species	Pools	Mosquitoes	Positives
<i>Aedes cinereus</i>	1	4	
<i>Aedes vexans</i>	4	61	
<i>Anopheles bradleyi</i>	1	7	
<i>Anopheles punctipennis</i>	6	27	
<i>Anopheles quadrimaculatus</i>	10	505	
<i>Culex restuans</i>	9	31	
<i>Culex salinarius</i>	4	8	
<i>Culex territans</i>	1	2	
<i>Culiseta melanura</i>	97	1756	
<i>Aedes canadensis canadensis</i>	10	582	
<i>Aedes cantator</i>	1	2	
<i>Aedes japonicus</i>	1	2	
<i>Aedes sticticus</i>	6	245	
<i>Aedes thibaulti</i>	1	2	
<b>Grand Total</b>	<b>152</b>	<b>3234</b>	<b>0</b>

**Remarks:** West Nile activity detection began in New Jersey with the submission of a positive Blue Jay from Ocean County to DHSS. Early-season mosquito species such as *Aedes canadensis* and *Culex restuans* that were caught in resting boxes or other trap types have been examined for WN activity. No positive pools were found among the 152 pools submitted to date. *Culex pipiens* pool submission is expected to begin shortly.

**West Nile in US (2007 cumulative cases):**

- dead bird: CA(25) MS(3)
- equine: CA(1), TN(1), TX(1)
- mosquito: CA(4), ID(2), IL(3), IN(8), TX(1), VA(1)
- 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 22 June 2007

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>17</b>	<b>221</b>	<b>0</b>
	<i>Culex restuans</i>	1	1	
	<i>Culiseta melanura</i>	16	220	
<b>Burlington</b>		<b>12</b>	<b>103</b>	<b>0</b>
	<i>Culiseta melanura</i>	12	103	
<b>Camden</b>		<b>17</b>	<b>275</b>	<b>0</b>
	<i>Anopheles punctipennis</i>	2	11	
	<i>Culex restuans</i>	1	1	
	<i>Culiseta melanura</i>	14	263	
<b>Cape May</b>		<b>39</b>	<b>1270</b>	<b>0</b>
	<i>Anopheles bradleyi</i>	1	7	
	<i>Anopheles punctipennis</i>	1	1	
	<i>Anopheles quadrimaculatus</i>	8	498	
	<i>Culex restuans</i>	2	4	
	<i>Culex salinarius</i>	2	4	
	<i>Culex territans</i>	1	2	
	<i>Culiseta melanura</i>	23	752	
	<i>Aedes cantator</i>	1	2	
<b>Monmouth</b>		<b>26</b>	<b>460</b>	<b>0</b>
	<i>Aedes vexans</i>	1	6	
	<i>Culex restuans</i>	3	17	
	<i>Culex salinarius</i>	1	2	
	<i>Culiseta melanura</i>	16	188	
	<i>Aedes canadensis canadensis</i>	4	240	
	<i>Aedes sticticus</i>	1	7	
<b>Ocean</b>		<b>9</b>	<b>380</b>	<b>0</b>
	<i>Culex restuans</i>	1	6	
	<i>Culiseta melanura</i>	2	18	
	<i>Aedes canadensis canadensis</i>	5	339	

	<i>Aedes sticticus</i>	1	17	
<b>Salem</b>		<b>20</b>	<b>229</b>	<b>0</b>
	<i>Anopheles punctipennis</i>	2	5	
	<i>Anopheles quadrimaculatus</i>	2	7	
	<i>Culiseta melanura</i>	14	212	
	<i>Aedes canadensis canadensis</i>	1	3	
	<i>Aedes thibaulti</i>	1	2	
<b>Somerset</b>		<b>12</b>	<b>296</b>	<b>0</b>
	<i>Aedes cinereus</i>	1	4	
	<i>Aedes vexans</i>	3	55	
	<i>Anopheles punctipennis</i>	1	10	
	<i>Culex restuans</i>	1	2	
	<i>Culex salinarius</i>	1	2	
	<i>Aedes japonicus</i>	1	2	
	<i>Aedes sticticus</i>	4	221	
<b>Grand Total</b>		<b>152</b>	<b>3234</b>	<b>0</b>