

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 7

## *Culiseta melanura* Monitor

July 15 to 21, 2006

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.)	3.9	2.6	242	25	0	Waterford (Camden Co.)	0.6	<0.1	13	9	0
Corbin City (Atlantic Co.)	0.7	1.5	146	26	0	Centerton (Salem Co.)	2.9	0.4	180	20	0
Dennisville (Cape May Co.)	4.9	1.1	949	35	0	Turkey Swamp (Monmouth Co.)	1.2	0.9	116	24	0

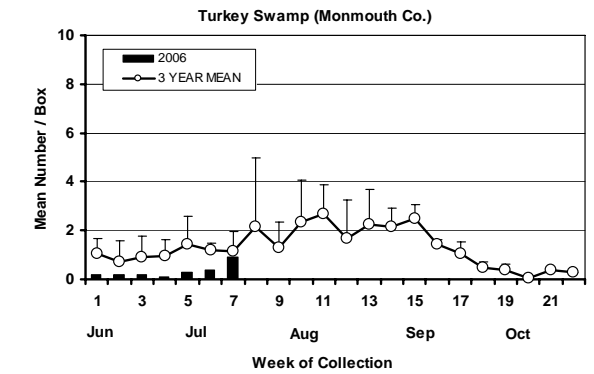
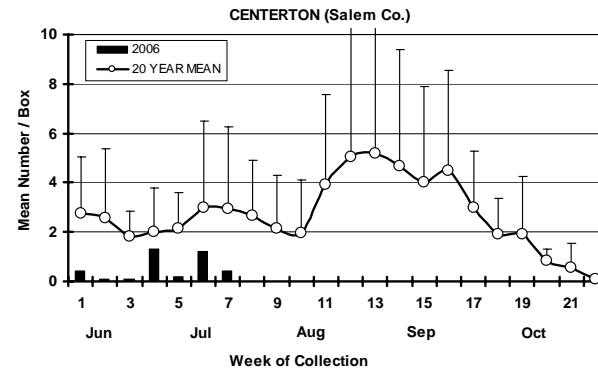
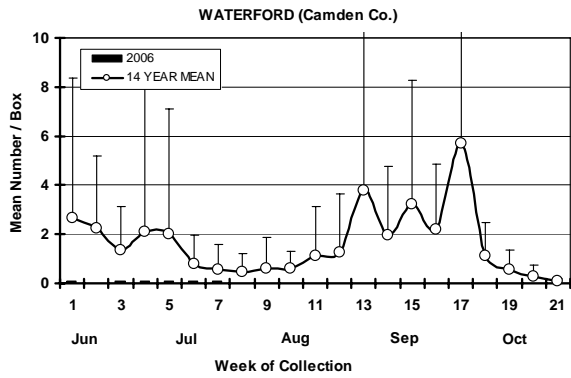
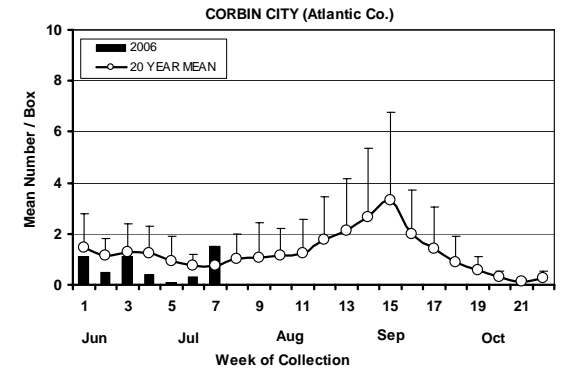
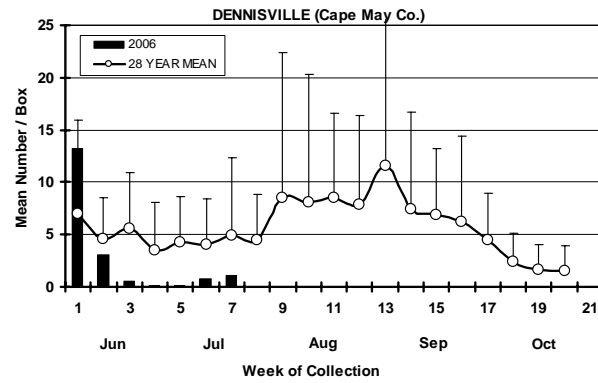
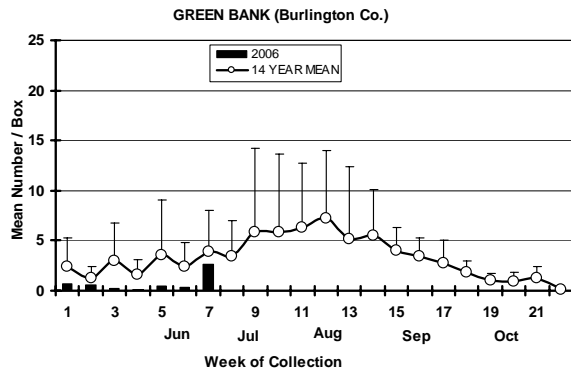
### Collections submitted to PHEL for West Nile Virus testing

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	42	23	9	378	139	57	3	16	21	5	42	28	50	813
Total Specimens	615	294	54	17,188	1,648	810	24	724	45	17	228	277	1,006	22,930
No. Positive Pools	0	0	0	4	0	0	0	0	0	0	0	0	0	4

**Remarks:** *Culiseta melanura* populations increased over the past week at several of the study sites providing the first evidence for an influx of nulliparous adults since early spring. Newly emerged adult *Cs. melanura* at this time of year favors amplification of EEE in local birds. If collections continue to rise, the potential for EEE activity will intensify. WNV was identified from 4 pools of mixed *Culex* mosquitoes over the past week providing the first evidence of amplification of that virus in our geographic area. The positives were obtained from 3 different counties (Hudson, Monmouth & Burlington) suggesting that early season virus activity is fairly widespread in the state this year.

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Summary Prepared by: Wayne J. Crans, Rutgers University

# Culiseta melanura Population Graphs



## Mosquito Species Submitted for West Nile Virus Testing through July 21, 2006

Species	Pools	Mosquitoes	Positives
<i>Aedes vexans</i>	57	810	
<i>Anopheles bradleyi</i>	3	11	
<i>Anopheles punctipennis</i>	16	72	
<i>Anopheles quadrimaculatus</i>	18	832	
<i>Anopheles walkeri</i>	1	11	
<i>Coquillettidia perturbans</i>	12	96	
<i>Cs. melanura</i>	139	1648	
<i>Culex erraticus</i>	1	1	
<i>Culex pipiens</i>	42	615	
<i>Culex restuans</i>	23	294	
<i>Culex salinarius</i>	9	54	
<i>Culex spp.</i>	378	17188	4
<i>Culex territans</i>	2	5	
<i>Ochlerotatus atlanticus</i>	1	1	
<i>Ochlerotatus canadensis</i>	3	24	
<i>Ochlerotatus cantator</i>	4	14	
<i>Ochlerotatus japonicus</i>	42	228	
<i>Ochlerotatus sollicitans</i>	5	17	
<i>Ochlerotatus sticticus</i>	2	17	
<i>Ochlerotatus stimulans</i>	3	3	
<i>Ochlerotatus taeniorhynchus</i>	1	2	
<i>Ochlerotatus triseriatus</i>	21	45	
<i>Ochlerotatus trivittatus</i>	16	724	
<i>Psorophora columbiae</i>	4	6	
<i>Psorophora ferox</i>	10	212	
<b>Grand Total</b>	<b>813</b>	<b>22930</b>	<b>4</b>

**Submission by County through July 21, 2006**

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>
<b>Atlantic</b>		<b>58</b>	<b>1305</b>	<b>0</b>
	Aedes albopictus	2	34	
	Aedes vexans	4	95	
	<i>Cs. melanura</i>	26	146	
	Culex restuans	1	7	
	Culex spp.	22	1010	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	11	
	Ochlerotatus triseriatus	1	1	
<b>Bergen</b>		<b>45</b>	<b>3375</b>	<b>0</b>
	Culex spp.	45	3375	
<b>Burlington</b>		<b>51</b>	<b>429</b>	<b>1</b>
	Aedes albopictus	6	30	
	Aedes vexans	2	23	
	Anopheles punctipennis	1	2	
	Coquillettidia perturbans	1	4	
	<i>Cs. melanura</i>	26	244	
	Culex spp.	6	75	1
	Culex territans	1	3	
	Ochlerotatus atlanticus	1	1	
	Ochlerotatus canadensis	1	22	
	Ochlerotatus japonicus	2	20	
	Ochlerotatus stimulans	2	2	
	Ochlerotatus triseriatus	1	1	
	Psorophora ferox	1	2	
<b>Camden</b>		<b>33</b>	<b>722</b>	<b>0</b>
	Aedes albopictus	3	23	
	Anopheles punctipennis	2	3	
	Anopheles quadrimaculatus	1	2	
	Coquillettidia perturbans	1	1	
	<i>Cs. melanura</i>	9	13	
	Culex spp.	15	674	
	Ochlerotatus japonicus	1	1	
	Ochlerotatus triseriatus	1	5	
<b>Cape May</b>		<b>54</b>	<b>1822</b>	<b>0</b>
	Anopheles bradleyi	2	10	
	Anopheles punctipennis	1	2	
	Anopheles quadrimaculatus	12	820	
	<i>Cs. melanura</i>	34	949	
	Culex pipiens	1	6	

	Culex restuans	1	24	
	Culex salinarius	2	10	
	Ochlerotatus cantator	1	1	
<b>Essex</b>		<b>32</b>	<b>595</b>	<b>0</b>
	Aedes albopictus	2	2	
	Aedes vexans	7	69	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	Coquillettidia perturbans	1	4	
	Culex spp.	10	355	
	Ochlerotatus sollicitans	1	1	
	Ochlerotatus sticticus	2	17	
	Ochlerotatus triseriatus	1	1	
	Ochlerotatus trivittatus	1	3	
	Psorophora ferox	5	141	
<b>Gloucester</b>		<b>45</b>	<b>567</b>	<b>0</b>
	Aedes albopictus	2	2	
	Coquillettidia perturbans	3	13	
	Culex pipiens	34	544	
	Ochlerotatus japonicus	6	8	
<b>Hudson</b>		<b>60</b>	<b>2698</b>	<b>2</b>
	Culex spp.	60	2698	2
<b>Hunterdon</b>		<b>45</b>	<b>2222</b>	<b>0</b>
	Anopheles punctipennis	1	22	
	Culex spp.	44	2200	
<b>Mercer</b>		<b>31</b>	<b>603</b>	<b>0</b>
	Aedes albopictus	4	69	
	Aedes vexans	1	33	
	Anopheles punctipennis	2	3	
	Culex pipiens	6	64	
	Culex restuans	5	93	
	Culex salinarius	1	4	
	Culex spp.	7	325	
	Ochlerotatus japonicus	1	5	
	Ochlerotatus triseriatus	1	2	
	Ochlerotatus trivittatus	1	2	
	Psorophora columbiae	1	2	
	Psorophora ferox	1	1	
<b>Middlesex</b>		<b>45</b>	<b>2199</b>	<b>0</b>
	Aedes albopictus	1	7	
	Culex spp.	39	2182	

	Ochlerotatus japonicus	5	10	
<b>Monmouth</b>		<b>82</b>	<b>808</b>	<b>1</b>
	Aedes albopictus	3	4	
	Aedes vexans	5	19	
	Anopheles punctipennis	1	1	
	Anopheles quadrimaculatus	1	1	
	<i>Cs. melanura</i>	24	116	
	Culex restuans	1	3	
	Culex spp.	28	565	1
	Culex territans	1	2	
	Ochlerotatus canadensis	1	1	
	Ochlerotatus cantator	1	1	
	Ochlerotatus japonicus	6	68	
	Ochlerotatus sollicitans	4	16	
	Ochlerotatus taeniorhynchus	1	2	
	Ochlerotatus triseriatus	4	8	
	Psorophora ferox	1	1	
<b>Morris</b>		<b>30</b>	<b>381</b>	<b>0</b>
	Anopheles punctipennis	1	1	
	Culex spp.	18	334	
	Ochlerotatus japonicus	6	41	
	Ochlerotatus stimulans	1	1	
	Ochlerotatus triseriatus	4	4	
<b>Ocean</b>		<b>30</b>	<b>440</b>	<b>0</b>
	Aedes albopictus	5	106	
	Culex restuans	1	10	
	Culex spp.	19	309	
	Ochlerotatus japonicus	2	8	
	Ochlerotatus triseriatus	3	7	
<b>Passaic</b>		<b>18</b>	<b>794</b>	<b>0</b>
	Culex spp.	18	794	
<b>Salem</b>		<b>56</b>	<b>416</b>	<b>0</b>
	Aedes vexans	3	8	
	Anopheles bradleyi	1	1	
	Anopheles punctipennis	1	10	
	Anopheles quadrimaculatus	2	7	
	Coquillettidia perturbans	2	3	
	<i>Cs. melanura</i>	20	180	
	Culex erraticus	1	1	
	Culex pipiens	1	1	
	Culex restuans	14	157	
	Culex salinarius	5	30	

	Culex spp.	2	13	
	Ochlerotatus cantator	1	1	
	Psorophora columbiae	3	4	
<b>Somerset</b>		<b>20</b>	<b>723</b>	<b>0</b>
	Culex spp.	11	518	
	Ochlerotatus japonicus	3	26	
	Ochlerotatus triseriatus	2	12	
	Ochlerotatus trivittatus	2	100	
	Psorophora ferox	2	67	
<b>Sussex</b>		<b>32</b>	<b>1059</b>	<b>0</b>
	Aedes vexans	6	284	
	Anopheles punctipennis	4	25	
	Anopheles walkeri	1	11	
	Coquillettidia perturbans	4	71	
	Culex salinarius	1	10	
	Culex spp.	5	42	
	Ochlerotatus triseriatus	1	2	
	Ochlerotatus trivittatus	10	614	
<b>Union</b>		<b>8</b>	<b>201</b>	<b>0</b>
	Culex spp.	6	195	
	Ochlerotatus japonicus	2	6	
<b>Warren</b>		<b>38</b>	<b>1571</b>	<b>0</b>
	Aedes vexans	1	2	
	Anopheles punctipennis	1	2	
	Anopheles quadrimaculatus	1	1	
	Culex spp.	23	1524	
	Ochlerotatus japonicus	8	35	
	Ochlerotatus triseriatus	2	2	
	Ochlerotatus trivittatus	2	5	
<b>Grand Total</b>		<b>813</b>	<b>22930</b>	<b>4</b>