

# VECTOR SURVEILLANCE IN NEW JERSEY

## EEE, WNV, SLE and LAC

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CDC WEEK 31: July 31 to August 6, 2011

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### *Culiseta melanura* and Eastern Equine Encephalitis

SITE	Inland / Coastal	Historic Mean	Current Weekly Mean	Total Tested to Date*	Total Pools Submitted /Tested <sup>†</sup>	EEE Isolations	MFIR
<b>Green Bank</b> (Burlington County)	Coastal	4.52	0.24	28 <sup>†</sup>	7/6	0	
<b>Corbin City</b> (Atlantic County)	Coastal	1.04	0.04	47	7	0	
<b>Dennisville</b> (Cape May County)	Coastal	7.23	0.02	190	10	0	
<b>Winslow</b> (Camden County)	Inland	1.51	0.90	297	11	0	
<b>Centerton</b> (Salem County)	Inland	1.67	0.82	235	10	0	
<b>Turkey Swamp</b> (Monmouth County)	Inland	1.72	0.32	100 <sup>†</sup>	21/20	0	
<b>Glassboro</b> (Gloucester County)	Inland	1.15	0.40	227	10	0	

\*Including trial run last week in May. † Adjusted.

**Remarks:** The 7 traditional resting box sites for the collection of *Culiseta melanura*, the primary enzootic vector, still show no detectable EEE activity, and low *Cs. melanura* populations. Total number of *Culiseta melanura* tested to date is 1102 from 77 pools. Green Bank and Turkey Swamp have additional pools in the system to be tested this week. Although no activity has yet been recorded in New Jersey, there is activity to the north of us in New York State, where positive mosquitoes were found and most recently, a horse case. Despite low population numbers, we have detected EEE in the past under similar circumstances suggesting that continued vigilance is in order.

One hundred seventy-four additional pools containing 1,692 *Cs. melanura* have tested negative from other county trapping sites. The table below indicates non-*melanura* species tested for EEE:

<b>Additional <i>Cs. melanura</i> trapped by counties</b>				
*traps with positives indicated in <b>BOLD</b> .				
<b>County</b>	<b>Trap types*</b>	<b>Number collected (pools)</b>	<b>Number of positives pools</b>	<b>MFIR</b>
Burlington	CO2	799 (27)	0	
Cape May	CO2, Gravid, RB	206 (43)	0	
Cumberland	CO2, Gravid, RB	169 (20)	0	
Gloucester	RB	460 (63)	0	
Ocean	CO2, Gravid, RB	41 (19)	0	
Salem	BA	3 (1)	0	
Sussex	CO2	14 (1)	0	
<b>TOTAL</b>		<b>1692 (174)</b>	<b>0</b>	

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	11	78		
<i>Aedes atlanticus</i>	1	1		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	10	424		
<i>Aedes cantator</i>	26	196		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	14	58		
<i>Aedes sollicitans</i>	24	192		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	18	357		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	7	17		
<i>Aedes vexans</i>	9	307		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	29	508		
<i>Anopheles punctipennis</i>	21	257		
<i>Anopheles quadrimaculatus</i>	19	213		
<i>Coquillettidia perturbans</i>	65	1274		
<i>Culex erraticus</i>	82	3633		
<i>Culex pipiens</i>	278	2341		
<i>Culex restuans</i>	17	21		
<i>Culex salinarius</i>	99	876		
<i>Culex</i> spp.	210	7319		
<i>Psorophora columbiae</i>	1	2		
<i>Psorophora ferox</i>	1	7		
<i>Psorophora howardii</i>	2	5		
<i>Uranotaenia sapphirina</i>	1	75		
<b>State Total</b>	<b>952</b>	<b>18,173</b>		

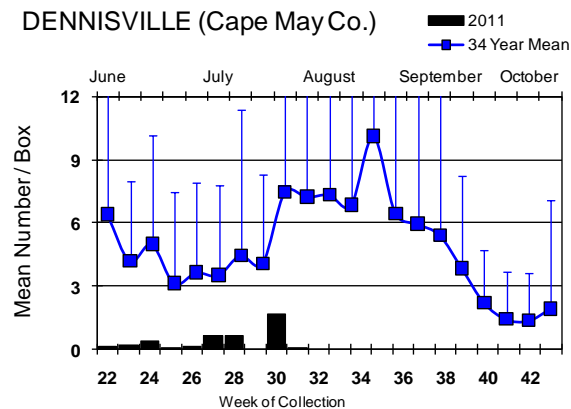
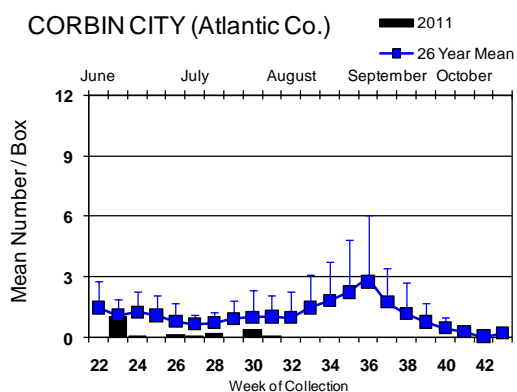
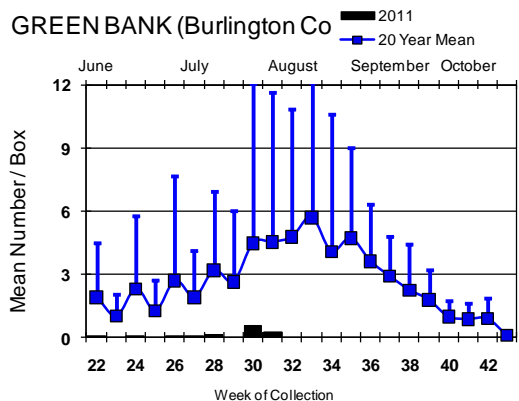
An addition 26 species of mosquitoes have also been tested with no detection of EEE.

**Horses and Humans:** No positive horses or humans to date.

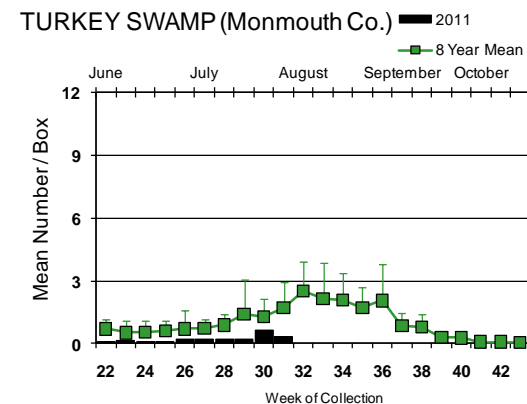
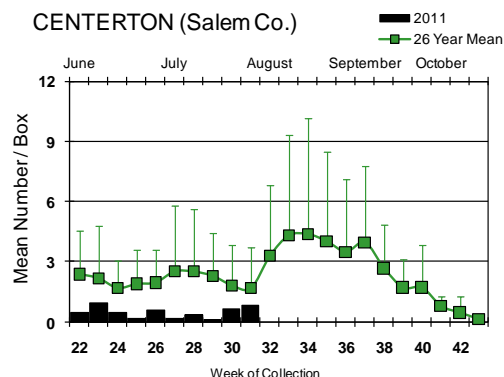
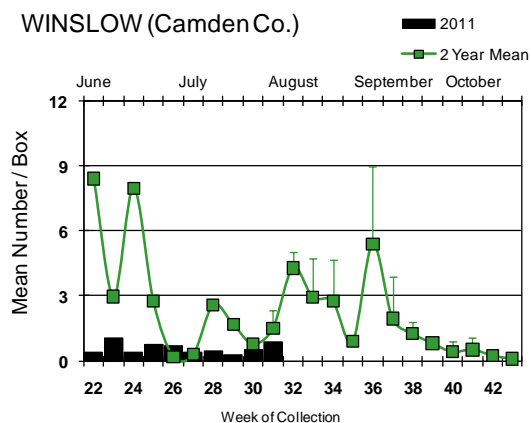
**Horses and Vaccinations:** The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: [http://www.aaep.org/vaccination\\_guidelines.htm](http://www.aaep.org/vaccination_guidelines.htm)

# Culiseta melanura Population Graphs

## Coastal



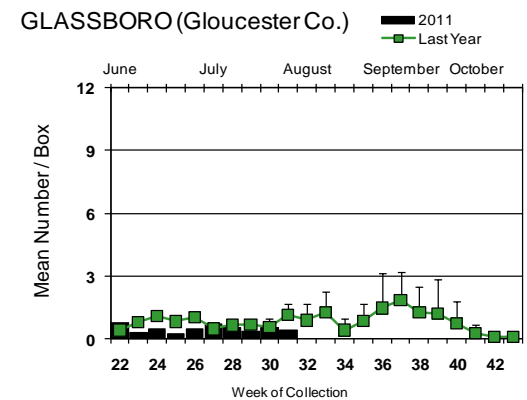
## Inland



Despite the increase in population numbers at all sites last week, this week saw another decrease at most sites. Only Winslow and Centerton saw increases in their populations, but still below historical trends.

↓ = Positive pool(s) detected.

Note: Both Winslow and Glassboro have single point historical data (the previous year) for weeks 22 to 29.



**EEE in US (2011 cumulative cases):** (Black or Red = previous + new reported cases occurring)

- equine: 3(FL) 1(LA)
- mosquito pools: 1(LA) 4(MA) 2(NY) 1(NC)
- sentinel: 13 chickens/19 wild bird (FL) 2(NC)
- human:

### West Nile Virus

**West Nile in US (2011 cumulative cases):** Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**.

Note: Data reported by all states should be considered provisional and subject to change. Sources for this table can be found [here](#).

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Alabama			1		
Alaska					
Arizona	0	37/71	9	0	4
Arkansas					
California	88/117	272/392	34	1*	1/8
Colorado		2			1
Connecticut		8/31			0
Delaware	2				
DC	2	23			
Florida	1 flavi		42/54		8
Georgia	0	14/108		1	1
Hawaii					
Idaho					
Illinois	2/4	26/74	0	0	0
Indiana	0	4/25		0	0
Iowa		1	3/4	0	0
Kansas					
Kentucky					
Louisiana		146	1		2
Maine		0		0	0
Maryland		3			
Mass.		38/97		0	0
Michigan	0	0	0	0	0
Minnesota	1				
Mississippi		6/14		0	6/13
Missouri		34/50		0	0

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana				0	0
Nebraska	1	4/6		0	0
Nevada					0
New Hampshire		1		0	0
New Jersey	8	56/141		0	1
New Mexico					0
New York		69/103		0	0
North Carolina					
North Dakota	0	0		3*	1
Ohio		21/52		0	0
Oklahoma					
Oregon	0	0	0	0	0
Pennsylvania	3/4	200/404		1*	0
Rhode Island		0		0	0
South Carolina	0	1		0	0
South Dakota		0		0	1
Tennessee	0	184/274		0	0
Texas	1	115/171		0	3/4
Utah		3/9	0	0	0
Vermont	0	1		0	0
Virginia		47	0	0	1
Washington	0	0		0	0
West Virginia	0	0		0	0
Wisconsin	0	0		0	0
Wyoming		3/6		0	1

\* Other species (e.g., dogs) reported positive.

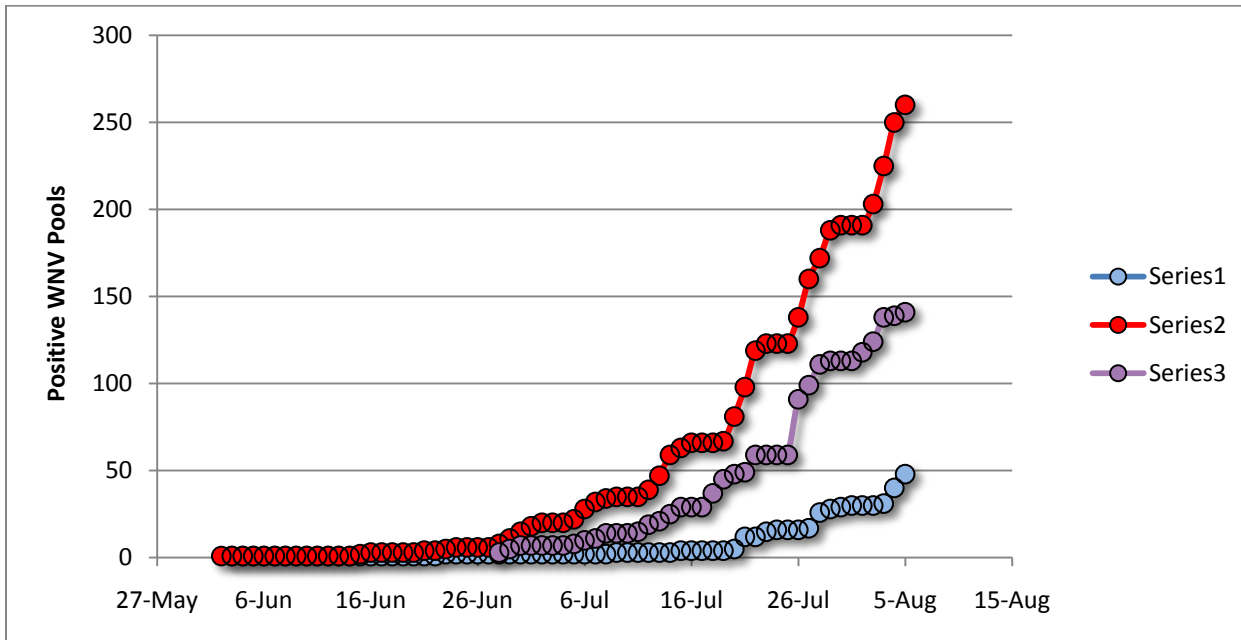
**Protocol:** New Jersey Department of Health and Senior Services (NJDHSS Public Health and Environmental Laboratories, PHEL) and the Cape May County Division of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

## Mosquito Species Submitted for West Nile Virus Testing through 5 August 2011

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	297	1455	3	2.062
<i>Aedes atlanticus</i>	2	7		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes aurifer</i>	1	2		
<i>Aedes canadensis canadensis</i>	57	925		
<i>Aedes cantator</i>	43	230		
<i>Aedes cinereus</i>	3	5		
<i>Aedes grossbecki</i>	3	8		
<i>Aedes japonicus</i>	270	1739		
<i>Aedes sollicitans</i>	34	256		
<i>Aedes sticticus</i>	2	24		
<i>Aedes stimulans</i>	5	47		
<i>Aedes taeniorhynchus</i>	37	677		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	164	407		
<i>Aedes trivittatus</i>	12	158		
<i>Aedes vexans</i>	89	720		
<i>Anopheles barberi</i>	4	4		
<i>Anopheles bradleyi</i>	35	524		
<i>Anopheles punctipennis</i>	54	327		
<i>Anopheles quadrimaculatus</i>	73	497		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	93	1469		
<i>Culex erraticus</i>	91	3783		
<i>Culex pipiens</i>	514	9840	31	3.150
<i>Culex restuans</i>	384	2404	2	0.832
<i>Culex salinarius</i>	105	902		
<i>Culex spp.</i>	1524	63162	103	1.631
<i>Culiseta inornata</i>	2	3		
<i>Culiseta melanura</i>	259	2835	2	0.705
<i>Orthopodomyia signifera</i>	1	1		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	6	61		
<i>Psorophora ferox</i>	17	113		
<i>Psorophora howardii</i>	2	5		
<i>Uranotaenia sapphirina</i>	4	107		
State Total	<b>4,193</b>	<b>97,710</b>	<b>141</b>	<b>1.521</b>

**Remarks:** To date, there have been 97,710 mosquitoes tested in 4,193 pools from 35 species. Currently, 141 positive pools have been detected last week in *Culex pipiens*, *Cx. restuans*, Mixed *Culex*, *Culiseta melanura*, and most recently, a potential bridge vector, *Aedes albopictus* from Essex, Gloucester and Union counties. Dates positive samples were collected were between 28 June and 5 August.

Last week, we showed a comparison between the cumulative rates of positive pools among 2009 (low activity), 2010 (high activity) and 2011 (current). Again, the trend for the current year is between the two previous years. This past week has shown an increase in activity.



**Humans, Horses and Wild Birds:** There is one positive human case reported by the Department of Health and Senior Services: [http://www.state.nj.us/cgi-bin/dhss/njnewslne/view\\_article.pl?id=3759](http://www.state.nj.us/cgi-bin/dhss/njnewslne/view_article.pl?id=3759).

No positive horse cases have been reported.

Bird testing began in mid-April. First positive birds have been reported, with eight positives detected from the 49 birds that have been tested. Species include American Crow *Corvus brachyrhynchos* (2/3), Blue Jays *Cyanocitta cristata* (5), Fish Crows *Corvus ossifragus* (2/13) unknown *Corvus* (2/4), Hawk (1) and Other (non-corvid) species (2/23). Positive birds were from Gloucester, Morris, Ocean, and Warren counties. Counties submitting birds are Atlantic, Burlington, Cape May, Cumberland, Gloucester, Monmouth, Morris, Ocean and Warren.

2011 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year
141 / 4,193 (0.034)	289 / 2,728 (.106)
2011 Positive Birds to date / Total Birds Submitted	This time last year
8 / 49 (0.163)	44 / 108 (0.407)

### WNV Results by County through 5 August 2011

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Atlantic</b>		<b>111</b>	<b>3456</b>		
	<i>Aedes albopictus</i>	8	114		
	<i>Aedes canadensis canadensis</i>	2	9		
	<i>Aedes cantator</i>	3	20		
	<i>Aedes japonicus</i>	3	15		
	<i>Aedes sollicitans</i>	3	34		
	<i>Aedes taeniorhynchus</i>	3	70		
	<i>Aedes thibaulti</i>	1	1		
	<i>Aedes triseriatus</i>	3	10		
	<i>Aedes vexans</i>	8	59		
	<i>Anopheles bradleyi</i>	1	5		

<i>Anopheles punctipennis</i>	1	1		
<i>Anopheles quadrimaculatus</i>	4	57		
<i>Coquillettidia perturbans</i>	1	25		
<i>Culex restuans</i>	1	1		
<i>Culex</i> spp.	60	2955		
<i>Culiseta melanura</i>	8	69		
<i>Psorophora ferox</i>	1	11		
<b>Bergen</b>	<b>60</b>	<b>4358</b>	<b>28</b>	<b>6.425</b>
<i>Aedes albopictus</i>	1	2		
<i>Aedes japonicus</i>	1	6		
<i>Culex</i> spp.	58	4350	28	6.437
<b>Burlington</b>	<b>280</b>	<b>10299</b>	<b>12</b>	<b>1.165</b>
<i>Aedes albopictus</i>	7	74		
<i>Aedes atlanticus</i>	1	1		
<i>Aedes atropalpus</i>	3	4		
<i>Aedes canadensis canadensis</i>	9	419		
<i>Aedes cantator</i>	2	63		
<i>Aedes grossbecki</i>	1	3		
<i>Aedes japonicus</i>	9	50		
<i>Aedes sollicitans</i>	7	129		
<i>Aedes sticticus</i>	1	3		
<i>Aedes taeniorhynchus</i>	7	48		
<i>Aedes triseriatus</i>	6	15		
<i>Aedes vexans</i>	8	306		
<i>Anopheles bradleyi</i>	1	73		
<i>Anopheles punctipennis</i>	2	13		
<i>Coquillettidia perturbans</i>	25	749		
<i>Culex erraticus</i>	4	159		
<i>Culex pipiens</i>	5	75	1	13.333
<i>Culex salinarius</i>	15	195		
<i>Culex</i> spp.	129	7010	10	1.427
<i>Culiseta melanura</i>	33	821	1	1.218
<i>Psorophora columbiae</i>	1	2		
<i>Psorophora ferox</i>	1	7		
<i>Psorophora howardii</i>	2	5		
<i>Uranotaenia sapphirina</i>	1	75		
<b>Camden</b>	<b>124</b>	<b>2885</b>	<b>9</b>	<b>3.120</b>
<i>Aedes albopictus</i>	22	75		
<i>Aedes japonicus</i>	16	42		
<i>Aedes triseriatus</i>	3	7		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</i>	2	2		
<i>Anopheles quadrimaculatus</i>	1	2		
<i>Culex</i> spp.	68	2459	9	3.660
<i>Culiseta melanura</i>	11	297		
<b>Cape May</b>	<b>1364</b>	<b>12634</b>	<b>1</b>	<b>0.079</b>
<i>Aedes albopictus</i>	91	147		
<i>Aedes canadensis canadensis</i>	19	355		
<i>Aedes cantator</i>	23	109		
<i>Aedes japonicus</i>	63	130		
<i>Aedes sollicitans</i>	17	63		
<i>Aedes taeniorhynchus</i>	21	449		

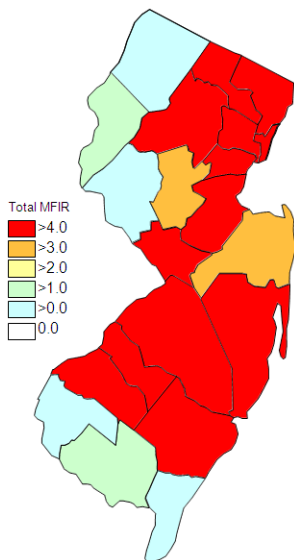


	<i>Aedes triseriatus</i>	51	80		
	<i>Aedes vexans</i>	11	20		
	<i>Anopheles bradleyi</i>	29	439		
	<i>Anopheles punctipennis</i>	5	7		
	<i>Anopheles quadrimaculatus</i>	41	217		
	<i>Coquillettidia perturbans</i>	21	318		
	<i>Culex erraticus</i>	75	3456		
	<i>Culex pipiens</i>	323	3281		
	<i>Culex restuans</i>	347	2110	1	0.474
	<i>Culex salinarius</i>	85	682		
	<i>Culex</i> spp.	88	374		
	<i>Culiseta melanura</i>	53	396		
	<i>Orthopodomyia signifera</i>	1	1		
<b>Cumberland</b>		<b>87</b>	<b>906</b>		
	<i>Aedes albopictus</i>	7	14		
	<i>Aedes atlanticus</i>	1	6		
	<i>Aedes canadensis canadensis</i>	3	7		
	<i>Aedes japonicus</i>	3	10		
	<i>Aedes triseriatus</i>	10	20		
	<i>Aedes vexans</i>	4	32		
	<i>Anopheles punctipennis</i>	1	2		
	<i>Coquillettidia perturbans</i>	10	139		
	<i>Culex erraticus</i>	3	4		
	<i>Culex pipiens</i>	2	9		
	<i>Culex restuans</i>	2	5		
	<i>Culex</i> spp.	20	470		
	<i>Culiseta melanura</i>	20	169		
	<i>Psorophora ferox</i>	1	19		
<b>Essex</b>		<b>292</b>	<b>6377</b>	<b>9</b>	<b>1.411</b>
	<i>Aedes albopictus</i>	27	86	1	11.628
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	41	582		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		
	<i>Aedes triseriatus</i>	30	85		
	<i>Aedes vexans</i>	22	102		
	<i>Culex</i> spp.	160	5424	8	1.475
	<i>Psorophora ferox</i>	3	18		
<b>Gloucester</b>		<b>275</b>	<b>6748</b>	<b>22</b>	<b>3.260</b>
	<i>Aedes albopictus</i>	14	188	1	5.319
	<i>Aedes japonicus</i>	13	114		
	<i>Aedes triseriatus</i>	3	8		
	<i>Anopheles punctipennis</i>	11	230		
	<i>Anopheles quadrimaculatus</i>	11	193		
	<i>Coquillettidia perturbans</i>	2	6		
	<i>Culex pipiens</i>	148	5322	21	3.946
	<i>Culiseta melanura</i>	73	687		
<b>Hudson</b>		<b>75</b>	<b>5043</b>	<b>4</b>	<b>0.793</b>
	<i>Culex</i> spp.	75	5043	4	0.793

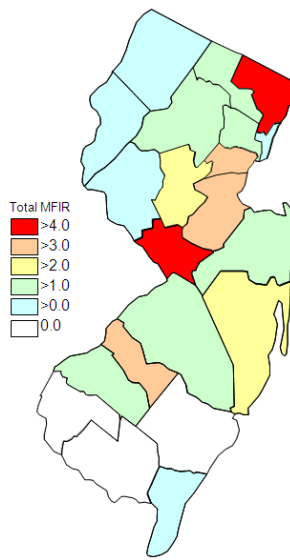
<b>Hunterdon</b>	<b>89</b>	<b>4450</b>	<b>3</b>	<b>0.674</b>
<i>Culex</i> spp.	89	4450	3	0.674
<b>Mercer</b>	<b>89</b>	<b>1535</b>	<b>10</b>	<b>6.515</b>
<i>Aedes albopictus</i>	20	105		
<i>Aedes japonicus</i>	21	68		
<i>Aedes triseriatus</i>	3	7		
<i>Aedes vexans</i>	1	2		
<i>Culex erraticus</i>	1	2		
<i>Culex pipiens</i>	30	1102	9	8.167
<i>Culex restuans</i>	11	247	1	4.049
<i>Culex salinarius</i>	1	1		
<i>Psorophora ferox</i>	1	1		
<b>Middlesex</b>	<b>107</b>	<b>4026</b>	<b>13</b>	<b>3.229</b>
<i>Aedes albopictus</i>	4	28		
<i>Aedes japonicus</i>	14	177		
<i>Aedes triseriatus</i>	1	5		
<i>Culex</i> spp.	88	3816	13	3.407
<b>Monmouth</b>	<b>231</b>	<b>2337</b>	<b>3</b>	<b>1.284</b>
<i>Aedes albopictus</i>	21	46		
<i>Aedes canadensis canadensis</i>	12	98		
<i>Aedes cantator</i>	7	28		
<i>Aedes japonicus</i>	26	93		
<i>Aedes sollicitans</i>	3	9		
<i>Aedes taeniorhynchus</i>	5	109		
<i>Aedes triseriatus</i>	16	60		
<i>Aedes trivittatus</i>	3	4		
<i>Aedes vexans</i>	7	15		
<i>Anopheles barberi</i>	4	4		
<i>Anopheles punctipennis</i>	9	19		
<i>Anopheles quadrimaculatus</i>	2	3		
<i>Coquillettidia perturbans</i>	6	29		
<i>Culex pipiens</i>	2	3		
<i>Culex restuans</i>	4	4		
<i>Culex salinarius</i>	1	16		
<i>Culex</i> spp.	72	1659	3	1.808
<i>Culiseta melanura</i>	25	86		
<i>Psorophora ciliata</i>	1	1		
<i>Psorophora columbiae</i>	1	6		
<i>Psorophora ferox</i>	4	45		
<b>Morris</b>	<b>90</b>	<b>4035</b>	<b>5</b>	<b>1.239</b>
<i>Aedes japonicus</i>	3	85		
<i>Coquillettidia perturbans</i>	2	65		
<i>Culex</i> spp.	85	3885	5	1.287
<b>Ocean</b>	<b>208</b>	<b>1679</b>	<b>4</b>	<b>2.382</b>
<i>Aedes albopictus</i>	42	401		
<i>Aedes canadensis canadensis</i>	5	5		
<i>Aedes cantator</i>	7	8		
<i>Aedes japonicus</i>	18	46		
<i>Aedes sollicitans</i>	2	17		
<i>Aedes taeniorhynchus</i>	1	1		

	<i>Aedes triseriatus</i>	10	17		
	<i>Aedes trivittatus</i>	2	2		
	<i>Aedes vexans</i>	11	34		
	<i>Anopheles bradleyi</i>	3	6		
	<i>Anopheles punctipennis</i>	8	8		
	<i>Anopheles quadrimaculatus</i>	2	3		
	<i>Coquillettidia perturbans</i>	11	77		
	<i>Culex erraticus</i>	1	1		
	<i>Culex restuans</i>	7	8		
	<i>Culex salinarius</i>	3	8		
	<i>Culex</i> spp.	51	988	3	3.036
	<i>Culiseta melanura</i>	19	41	1	24.390
	<i>Psorophora ferox</i>	5	8		
<b>Passaic</b>		<b>70</b>	<b>1703</b>	<b>3</b>	<b>1.762</b>
	<i>Aedes albopictus</i>	1	2		
	<i>Aedes canadensis canadensis</i>	2	5		
	<i>Aedes japonicus</i>	11	142		
	<i>Aedes triseriatus</i>	7	28		
	<i>Aedes trivittatus</i>	3	28		
	<i>Anopheles punctipennis</i>	1	1		
	<i>Coquillettidia perturbans</i>	1	3		
	<i>Culex</i> spp.	44	1494	3	2.008
<b>Salem</b>		<b>167</b>	<b>1806</b>		
	<i>Aedes albopictus</i>	10	15		
	<i>Aedes aurifer</i>	1	2		
	<i>Aedes canadensis canadensis</i>	3	19		
	<i>Aedes cantator</i>	1	2		
	<i>Aedes japonicus</i>	17	42		
	<i>Aedes sollicitans</i>	2	4		
	<i>Aedes triseriatus</i>	16	36		
	<i>Aedes vexans</i>	13	107		
	<i>Anopheles bradleyi</i>	1	1		
	<i>Anopheles punctipennis</i>	8	11		
	<i>Anopheles quadrimaculatus</i>	11	47		
	<i>Coquillettidia perturbans</i>	8	22		
	<i>Culex erraticus</i>	6	136		
	<i>Culex pipiens</i>	3	5		
	<i>Culex restuans</i>	7	17		
	<i>Culex</i> spp.	44	1047		
	<i>Culiseta inornata</i>	1	2		
	<i>Culiseta melanura</i>	11	238		
	<i>Psorophora columbiae</i>	4	53		
<b>Somerset</b>		<b>89</b>	<b>1344</b>	<b>2</b>	<b>2.232</b>
	<i>Aedes albopictus</i>	7	31		
	<i>Aedes japonicus</i>	7	81		
	<i>Aedes triseriatus</i>	5	29		
	<i>Anopheles punctipennis</i>	1	6		
	<i>Coquillettidia perturbans</i>	1	1		
	<i>Culex</i> spp.	68	1196	3	2.508
<b>Sussex</b>		<b>97</b>	<b>3568</b>	<b>1</b>	<b>0.280</b>
	<i>Aedes japonicus</i>	1	42		

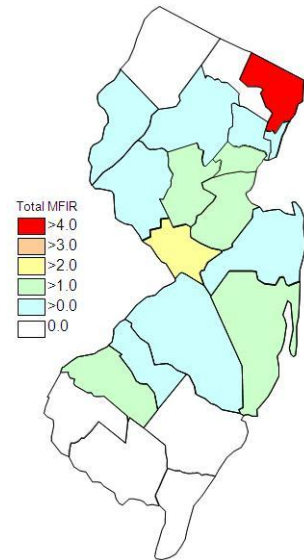
<i>Culex pipiens</i>	1	43		
<i>Culex restuans</i>	5	12		
<i>Culex</i> spp.	85	3441	1	0.291
<i>Culiseta melanura</i>	5	30		
<b>Union</b>	<b>64</b>	<b>2028</b>	<b>8</b>	<b>3.945</b>
<i>Aedes albopictus</i>	15	127	1	7.874
<i>Aedes japonicus</i>	3	14		
<i>Culex</i> spp.	46	1887	7	3.710
<b>Warren</b>	<b>224</b>	<b>11493</b>	<b>3</b>	<b>0.261</b>
<i>Aedes cinereus</i>	3	5		
<i>Aedes stimulans</i>	1	1		
<i>Aedes trivittatus</i>	4	124		
<i>Aedes vexans</i>	3	42		
<i>Anopheles punctipennis</i>	5	27		
<i>Anopheles quadrimaculatus</i>	5	32		
<i>Anopheles walkeri</i>	1	7		
<i>Coquillettidia perturbans</i>	2	3		
<i>Culex</i> spp.	194	11214	3	0.268
<i>Culiseta inornata</i>	1	1		
<i>Culiseta melanura</i>	1	1		
<i>Psorophora ferox</i>	1	4		
<i>Uranotaenia sapphirina</i>	3	32		
<b>Grand Total</b>	<b>4,193</b>	<b>92,710</b>	<b>141</b>	<b>1.521</b>



Cumulative WNV activity in 2010.



WNV activity to 5 August 2011.



WNV activity last week, 2011.

## Saint Louis Encephalitis (SLE) through 5 August 2011.

New Jersey will be selectively testing for SLE this year. SLE has had previous activity in New Jersey, most notably in 1964 and 1975 (CDC's SLE [website](#)), the latter prompting the surveillance reporting by Rutgers. SLE is a flavivirus and has a similar transmission pattern to West Nile, with *Culex* species as the predominant vectors.

No pools have tested positive for SLE to date in 2011.

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Burlington</b>		<b>273</b>	<b>10276</b>		
	<i>Aedes albopictus</i>	7	74		
	<i>Aedes atlanticus</i>	1	1		
	<i>Aedes atropalpus</i>	3	4		
	<i>Aedes canadensis canadensis</i>	9	419		
	<i>Aedes cantator</i>	2	63		
	<i>Aedes grossbecki</i>	1	3		
	<i>Aedes japonicus</i>	9	50		
	<i>Aedes sollicitans</i>	7	129		
	<i>Aedes sticticus</i>	1	3		
	<i>Aedes taeniorhynchus</i>	7	48		
	<i>Aedes triseriatus</i>	6	15		
	<i>Aedes vexans</i>	8	306		
	<i>Anopheles bradleyi</i>	1	73		
	<i>Anopheles punctipennis</i>	2	13		
	<i>Coquillettidia perturbans</i>	25	749		
	<i>Culex erraticus</i>	4	159		
	<i>Culex pipiens</i>	5	75		
	<i>Culex salinarius</i>	14	194		
	<i>Culex</i> spp.	129	7010		
	<i>Culiseta melanura</i>	27	799		
	<i>Psorophora columbiae</i>	1	2		
	<i>Psorophora ferox</i>	1	7		
	<i>Psorophora howardii</i>	2	5		
	<i>Uranotaenia sapphirina</i>	1	75		
<b>Camden</b>		<b>113</b>	<b>2588</b>		
	<i>Aedes albopictus</i>	22	75		
	<i>Aedes japonicus</i>	16	42		
	<i>Aedes triseriatus</i>	3	7		
	<i>Aedes vexans</i>	1	1		
	<i>Anopheles punctipennis</i>	2	2		
	<i>Anopheles quadrimaculatus</i>	1	2		
	<i>Culex</i> spp.	68	2459		
<b>Essex</b>		<b>292</b>	<b>6377</b>		
	<i>Aedes albopictus</i>	27	86		
	<i>Aedes canadensis canadensis</i>	2	8		
	<i>Aedes grossbecki</i>	2	5		
	<i>Aedes japonicus</i>	41	582		
	<i>Aedes sticticus</i>	1	21		
	<i>Aedes stimulans</i>	4	46		

	<i>Aedes triseriatus</i>	30	85		
	<i>Aedes vexans</i>	22	102		
	<i>Culex</i> spp.	160	5424		
	<i>Psorophora ferox</i>	3	18		
<b>Hudson</b>		<b>75</b>	<b>5043</b>		
	<i>Culex</i> spp.	75	5043		
<b>Grand Total</b>		<b>753</b>	<b>24,284</b>		

## La Crosse Encephalitis (LAC) through 5 August 2011.

New Jersey will be selectively testing for La Crosse (LAC) virus this year. New Jersey has had 3 cases of this encephalitic disease since 1964 (see CDC's LAC [website](#)). The mortality is low but like other encephalitides, LAC can have both personal (lasting neurological sequelae) and economic impacts. LAC is a bunyavirus with a transmission cycle involving mosquitoes such as *Aedes triseriatus* and small mammals such as squirrels and chipmunks. LAC can not only infect *Aedes albopictus* but transovarial transmission was also demonstrated. (Tesh and Gubler 1975 Laboratory studies of transovarial transmission of La Crosse and other arboviruses by *Aedes albopictus* and *Culex fatigans*. American Journal of Tropical Medicine and Hygiene 24(5):876-880).

No pools tested positive to date for 2011.

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Cape May</b>		<b>50</b>	<b>79</b>		
	<i>Aedes japonicus</i>	1	1		
	<i>Aedes triseriatus</i>	49	78		
<b>Cumberland</b>		<b>12</b>	<b>24</b>		
	<i>Aedes triseriatus</i>	12	24		
<b>Salem</b>		<b>7</b>	<b>16</b>		
	<i>Aedes triseriatus</i>	7	16		
<b>Grand Total</b>		<b>69</b>	<b>119</b>		