

**VECTOR SURVEILLANCE IN NEW JERSEY**  
**EEE, WNV, SLE and LAC**  
CDC WEEK 42: October 18 to October 24, 2009

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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	EEE Isolations	MFIR
<b>Green Bank</b> (Burlington County)	Coastal	1.1	0.20	1023	42	3	2.93
<b>Corbin City</b> (Atlantic County)	Coastal	0.1	0.04	310	25	1	3.23
<b>Dennisville</b> (Cape May County)	Coastal	2.2	0	1715	55	20	11.66
<b>Winslow</b> † (Camden County)	Inland	No history	0.41	1518	35	16	10.54
<b>Centerton</b> (Salem County)	Inland	0.6	0	563	35	2	3.55
<b>Turkey Swamp</b> (Monmouth County)	Inland	0.1	0.22	1430	127	11	7.69
<b>Glassboro</b> (Gloucester County)	Inland	No history	0.02	1125	44	4	2.80

\*Including trial run last week in May. † Date of site change-over occurred during Week 30.

**Remarks:** The total number of pools positive for eastern equine encephalitis is 118. Positive *Cs. melanura* pools from the traditional resting box sites remain at 57 (note adjustment from last week). Thirty-five positive *Cs. melanura* pools come from traps set by county agencies and 26 other positive species come from those traps (see below). To date, 370 pools from 7706 *Cs. melanura* mosquitoes have been sent for EEE testing from the seven resting box collection sites, and a total of 790 pools from 14325 *Cs. melanura* from all trap sites. \*One positive pool, from previous week.

Positive species other than <i>Cs. melanura</i>	County(s)	Total Pools	Total Mosquitoes	Total Positive Pools	MFIR
<i>Aedes canadensis</i>	Burlington, Monmouth	52	834	3	3.597
<i>Aedes japonicus</i>	Ocean	74	243	1	4.115
<i>Aedes vexans</i>	Gloucester	49	841	1	1.189
<i>Anopheles punctipennis</i>	Monmouth	64	355	1	2.817

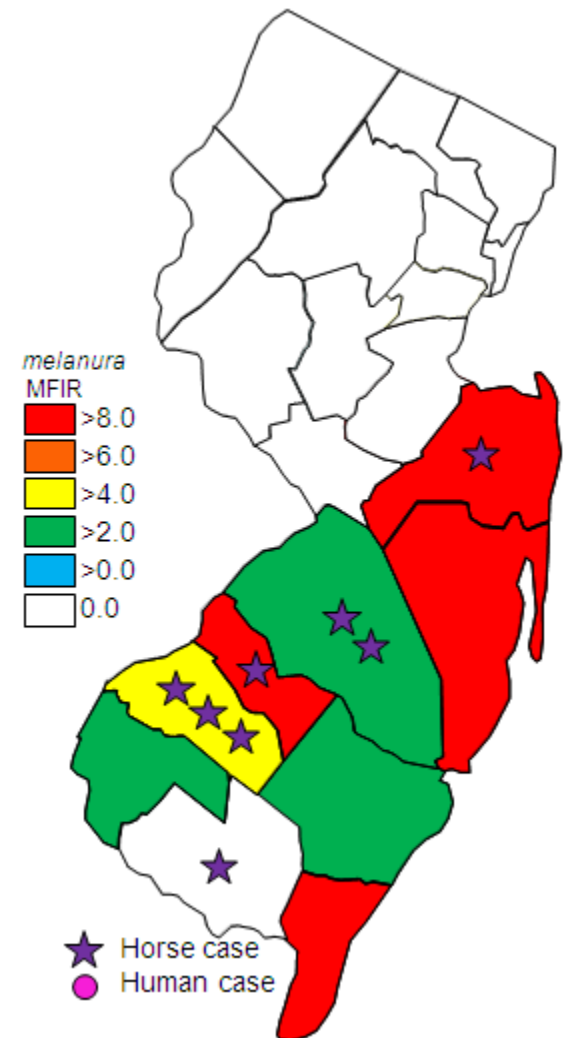
Positive species other than <i>Cs. melanura</i>	County(s)	Total Pools	Total Mosquitoes	Total Positive Pools	MFIR
Mixed <i>Culex</i> species	Atlantic, Monmouth	290	8282	3	0.362
<i>Culex erraticus</i>	Cape May	180	7014	13	1.853
<i>Culex pipiens</i>	Cape May	75	504	2	3.968
<i>Culex restuans</i>	Cape May	115	512	1	19.231
<i>Culex salinarius</i>	Burlington	119	3200	1	0.312

**Additional Species Pools:** A positive EEE pool of *Culex restuans* was detected from Cape May County. As with other ornithophilic species, it is not surprising that arboviruses would be detected in a system that exploits avian hosts. Other species tested for EEE to date include *Aedes abserratus*, *Ae. albopictus*, *Ae. atlanticus*, *Ae. atropalpus*, *Ae. cantator*, *Ae. cinereus*, *Ae. sollicitans*, *Ae. sticticus*, *Ae. taeniorhynchus*, *Ae. thibaulti*, *Ae. triseriatus*, *Ae. trivittatus*, *Anopheles barberi*, *An. bradleyi*, *An. crucians*, *An. quadrimaculatus*, *An. walker*, *Coquillettidia perturbans*, *Cx. territans*, *Culiseta inornata*, *Cs. morsitans*, *Psorophora ciliate*, *Ps. columbiae*, *Ps. ferox*, *Ps. howardii* and *Uranotaenia sapphirina*.

**MFIR values:** Figure to the right is the MFIR values of *Cs. melanura* for counties with positive pools, including non-resting box pools. Stars indicate only which counties have positive horses/alpacas, not location. There was no change from last week.

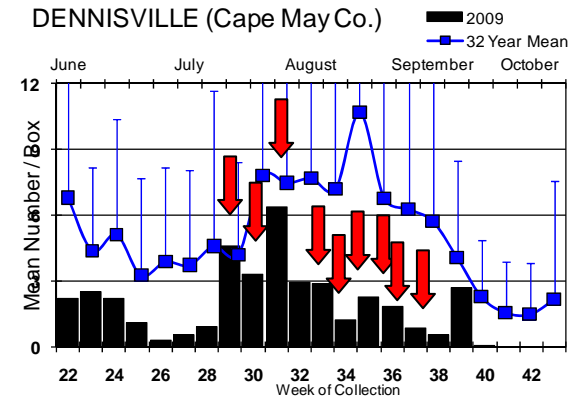
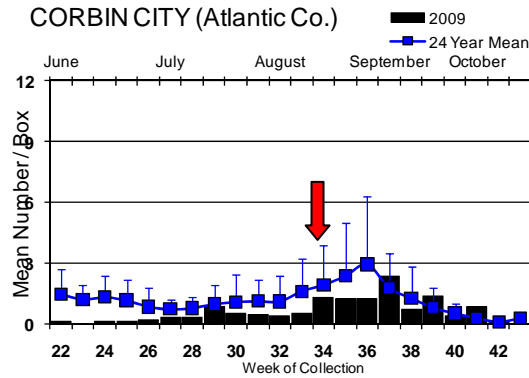
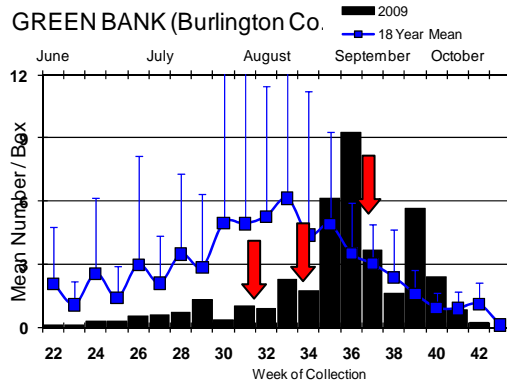
**Horses and Humans:** The number of EEE positive horses/alpaca remains at eight (Burlington-2, Camden-1, Cumberland-1, Gloucester-3 and Monmouth-1). Although the season is coming to an end, horse cases may continue to be detected into November (next week). The fate of these animals reinforces the necessity 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)

No human cases have been detected to date.

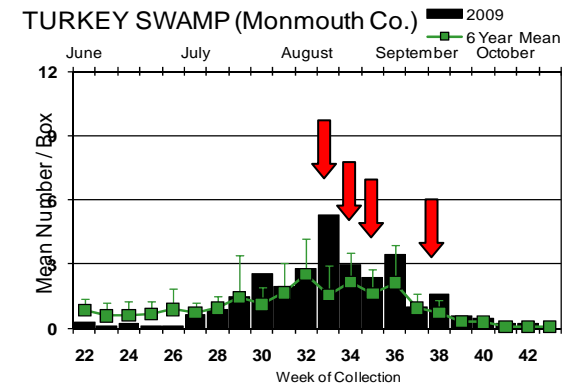
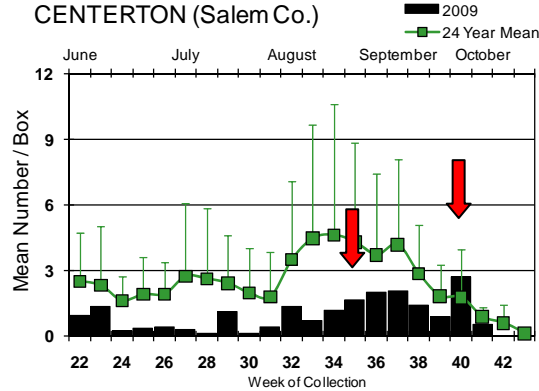
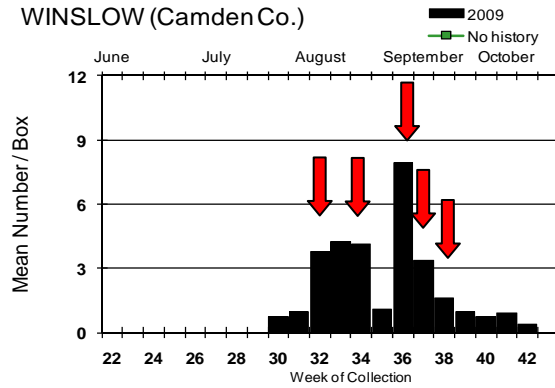


# Culiseta melanura Population Graphs

## Coastal

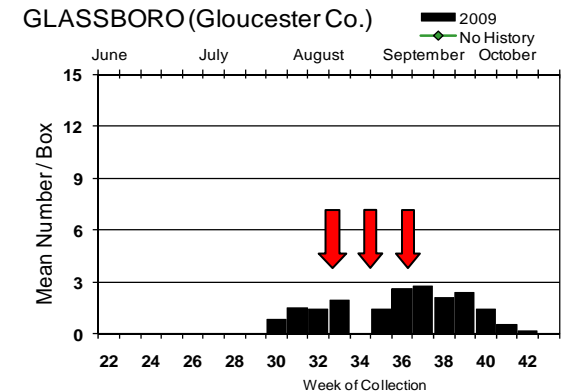


## Inland



There were no new positive *Culiseta melanura* pools detected at the traditional resting box sites. For most sites, population numbers fell from the previous week. At Dennisville, there was no *Cs. melanura*. Corbin City, on the other hand, did show an increase above historical trends for that site. The other sites with comparable historical data had averages that were at or below historical trends.

↓ = positive pool(s) detected.



**EEE in US (2009 cumulative cases):** (Red = new reported cases occurring) [1 horse case Nova Scotia]

- equine: 19(AL) 1(AR) 69(FL) 44(GA) 21(LA) 2(MA) **1(MD)** 15(ME) 1(MO) 43(MS) 17(NC) 7[1alpaca,1llama](NH) 8(1alpaca)(NJ) 7(NY) 2(RI) 12(SC) 4(TX) **11**(1goat1alpaca)(VA)
- mosquito: 116(CT) 3(FL) 2(LA) 54(MA) 2(ME) 5(NC) 73(NH) **118**(NJ) 59(NY) 4(RI) **141**(VA)
- sentinel: 2(AL) **174/100**wild(FL) 2(LA) 40(NC) 6(NH) 58[1emu,1fairybluebird(*Irena* sp)](VA)
- human: 1(LA) 1(NC) 1(NH) 1(NY)

## West Nile Virus

**West Nile in US (2009 cumulative cases):** Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**. Note: Some data reported by states are provisional and are subject to change. Sources for this table can be found [here](#).

	Birds	Mosquito Pools	Sentinel s	Horse s	Humans
Alabama			1/2	1	
Alaska					
Arizona	1	86/87	5	0	16/17
Arkansas					3
California	496/497	1047/1054	406/42	15/17	87/91
Colorado		78		20	91
Connecticut	0	33	0	0	0
Delaware					
DC					
Florida	2 (flavi)		44/45	4	3
Georgia	0	17/24		2	2/4
Hawaii					
Idaho	3	9 co.		10	33
Illinois	26	397/404	0	6	5
Indiana	2	127		0	3
Iowa		9	6	2	3/5
Kansas		5			9
Kentucky	1	1		7	3
Louisiana		1034	20	3/5	14
Maine					
Maryland	0	9		0	1/2
Mass.		26		1	0
Michigan		3	0	0	0
Minnesota	1	4			3
Mississippi		7		4	50
Missouri		347 flavi		2	2
Montana		1		14	4
Nebraska	20	105/116		6	37/41

	Bird s	Mosquit o Pools	Sentinel s	Horse s	Humans
Nevada		18		3	12
New Hampshire		0		0	0
New Jersey	31	318/322	0	1	2
New Mexico		1		7	7/8
New York	66	100	0	0	5/6
North Carolina			1		
North Dakota	0	0		2 dogs	1
Ohio	0	239/243		0	2
Oklahoma	0	6	0	0	8
Oregon	15	266	0	5	7
Pennsylvania	10	279	0	2	2
Rhode Island		2			
South Carolina	2	13/17			3
South Dakota	0	18	0	4	17
Tennessee	1	488	0	0	6
Texas	10	377	0	9	96/98
Utah		284	1	6	1/2
Vermont	4	11	0	0	0
Virginia		41/119	14	3	3
Washington	22	341	0	68/71	34
West Virginia	3	141	0	1	0
Wisconsin	6		0	1	1
Wyoming		22		2	10

**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 29 October 2009**

<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>	<b>MFIR</b>
<i>Aedes abserratus</i>	1	1		
<i>Aedes albopictus</i>	696	4540	3	0.661
<i>Aedes atlanticus</i>	17	52		
<i>Aedes atropalpus</i>	2	16		
<i>Aedes canadensis canadensis</i>	138	2881		
<i>Aedes cantator</i>	56	467		
<i>Aedes cinereus</i>	2	7		
<i>Aedes grossbecki</i>	3	35		
<i>Aedes japonicus</i>	854	5057	1	0.198
<i>Aedes sollicitans</i>	33	370		
<i>Aedes sticticus</i>	12	115		
<i>Aedes taeniorhynchus</i>	17	141		
<i>Aedes thibaulti</i>	6	9		
<i>Aedes triseriatus</i>	305	1159	1	0.863
<i>Aedes trivittatus</i>	41	609		
<i>Aedes vexans</i>	199	2863	1	0.349
<i>Anopheles barberi</i>	7	24		
<i>Anopheles bradleyi</i>	47	847	1	1.181
<i>Anopheles crucians</i>	6	36		
<i>Anopheles punctipennis</i>	175	647		
<i>Anopheles quadrimaculatus</i>	148	1557		
<i>Anopheles walkeri</i>	1	19		
<i>Coquillettidia perturbans</i>	65	622		
<i>Culex erraticus</i>	199	7186		
<i>Culex pipiens</i>	1036	21656	17	0.785
<i>Culex restuans</i>	649	6964	2	0.287
<i>Culex salinarius</i>	186	3854		
<i>Culex spp.</i>	3911	150527	294	1.953
<i>Culex territans</i>	33	119		
<i>Culiseta inornata</i>	1	2		
<i>Culiseta melanura</i>	721	10870	2	0.184
<i>Culiseta morsitans</i>	2	4		
<i>Orthopodomyia signifera</i>	3	3		
<i>Psorophora ciliata</i>	7	50		
<i>Psorophora columbiae</i>	10	239		
<i>Psorophora ferox</i>	48	495		
<i>Psorophora howardii</i>	1	6		
<i>Uranotaenia sapphirina</i>	9	26		
<b>State Total</b>	<b>9647</b>	<b>224075</b>	<b>322</b>	<b>1.437</b>

**Remarks:** The number of positive WNV pools rose to 322 from the 318 of last week. Mosquito activity continues to drop. This coming weekend forecasts an increase in temperatures, but a number of mosquito species have physiologically committed to the end of the season through entering diapause as eggs, larvae and adults.

**Humans, Horses and Wild Birds:** Two human cases have been reported to PHEL. The first human was in Hunterdon County with symptom onset on 18 August. The second resided in Camden County, with onset of symptoms occurring on 28 August. For more details plus information about WNV, see the PHEL's West Nile Virus Alert and FAQ Sheets:

One horse with an uncertain vaccination history in Salem County was found positive earlier in the season. Positive dead birds remain at 31. Seventeen positive Blue Jays (*Cyanocitta cristata*) mostly in Ocean County, five American Crows (*Corvus brachyrhynchos*), seven unknown crow species (*Corvus*) and two unknown hawks have been detected with WNV infection to date. No Fish Crows (*Corvus ossifragus*) have been reported infected with WNV, although nearly as many Fish Crows as American Crows have been sent in to PHEL for testing.

2009 Positive Mosquito pools to date / Total Mosquito Pools Submitted	This time last year* * 2008 started later (at least one month) last year than in 2009
322 / 9647 (3.3%)	621 / 8647 (7.2%)
2009 Positive Birds to date / Total Birds Submitted	This time last year* * 2008 started later (at least one month) last year than in 2009
31 / 126 (24.6%)	53 / 164 (32.3%)

**WNV Results by County through 29 October 2009**

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Atlantic</b>		<b>274</b>	<b>6376</b>	<b>3</b>	<b>0.471</b>
	<i>Aedes albopictus</i>	19	256		
	<i>Aedes atlanticus</i>	2	9		
	<i>Aedes canadensis canadensis</i>	8	99		
	<i>Aedes cantator</i>	8	148		
	<i>Aedes grossbecki</i>	1	8		
	<i>Aedes japonicus</i>	13	79		
	<i>Aedes sollicitans</i>	5	17		
	<i>Aedes sticticus</i>	2	18		
	<i>Aedes taeniorhynchus</i>	7	43		
	<i>Aedes thibaulti</i>	3	3		
	<i>Aedes triseriatus</i>	5	12		
	<i>Aedes trivittatus</i>	5	33		
	<i>Aedes vexans</i>	23	642		
	<i>Anopheles bradleyi</i>	9	60	1	16.667
	<i>Anopheles punctipennis</i>	7	13		
	<i>Anopheles quadrimaculatus</i>	5	9		
	<i>Culex erraticus</i>	5	20		
	<i>Culex restuans</i>	2	5		
	<i>Culex salinarius</i>	2	37		
	<i>Culex spp.</i>	103	4354	2	0.459
	<i>Culex territans</i>	1	1		
	<i>Culiseta melanura</i>	32	454		
	<i>Psorophora columbiae</i>	2	3		
	<i>Psorophora ferox</i>	5	53		
<b>Bergen</b>		<b>229</b>	<b>15096</b>	<b>80</b>	<b>5.299</b>
	<i>Aedes albopictus</i>	5	21		
	<i>Aedes japonicus</i>	12	42		
	<i>Aedes triseriatus</i>	1	1		
	<i>Anopheles punctipennis</i>	4	11		
	<i>Culex spp.</i>	207	15021	80	5.326

<b>Burlington</b>	<b>580</b>	<b>14981</b>	<b>25</b>	<b>1.669</b>
<i>Aedes abserratus</i>	1	1		
<i>Aedes albopictus</i>	45	316		
<i>Aedes atlanticus</i>	3	18		
<i>Aedes atropalpus</i>	2	16		
<i>Aedes canadensis canadensis</i>	37	1396		
<i>Aedes cantator</i>	7	71		
<i>Aedes cinereus</i>	1	6		
<i>Aedes grossbecki</i>	1	26		
<i>Aedes japonicus</i>	37	180		
<i>Aedes sollicitans</i>	5	71		
<i>Aedes sticticus</i>	2	85		
<i>Aedes taeniorhynchus</i>	4	57		
<i>Aedes triseriatus</i>	16	85		
<i>Aedes trivittatus</i>	2	9		
<i>Aedes vexans</i>	33	1037		
<i>Anopheles barberi</i>	1	1		
<i>Anopheles bradleyi</i>	12	491		
<i>Anopheles crucians</i>	2	11		
<i>Anopheles punctipennis</i>	12	47		
<i>Anopheles quadrimaculatus</i>	4	12		
<i>Coquilletidia perturbans</i>	21	288		
<i>Culex erraticus</i>	11	36		
<i>Culex pipiens</i>	1	75		
<i>Culex restuans</i>	4	6		
<i>Culex salinarius</i>	26	605		
<i>Culex spp.</i>	154	6479	25	3.859
<i>Culex territans</i>	3	13		
<i>Culiseta inornata</i>	1	2		
<i>Culiseta melanura</i>	118	3295		
<i>Psorophora ciliate</i>	2	34		
<i>Psorophora columbiae</i>	2	7		
<i>Psorophora ferox</i>	7	182		
<i>Psorophora howardii</i>	1	6		
<i>Uranotaenia sapphirina</i>	2	17		
<b>Camden</b>	<b>275</b>	<b>7201</b>	<b>20</b>	<b>2.777</b>
<i>Aedes albopictus</i>	31	154	2	12.987
<i>Aedes japonicus</i>	41	105	1	9.524
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	5	5		
<i>Aedes trivittatus</i>	2	2		
<i>Aedes vexans</i>	1	1		
<i>Anopheles punctipennis</i>	3	8		
<i>Anopheles quadrimaculatus</i>	3	4		
<i>Culex pipiens</i>	3	107		
<i>Culex restuans</i>	3	3		
<i>Culex spp.</i>	171	6669	17	2.549
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	7	138		
<i>Orthopodomyia signifera</i>	3	3		

<b>Cape May</b>	<b>2372</b>	<b>38041</b>	<b>13</b>	<b>0.342</b>
<i>Aedes albopictus</i>	149	535		
<i>Aedes canadensis canadensis</i>	8	96		
<i>Aedes cantator</i>	8	24		
<i>Aedes japonicus</i>	209	744		
<i>Aedes sollicitans</i>	10	111		
<i>Aedes taeniorhynchus</i>	4	21		
<i>Aedes triseriatus</i>	45	150		
<i>Aedes vexans</i>	4	6		
<i>Anopheles bradleyi</i>	13	198		
<i>Anopheles punctipennis</i>	7	21		
<i>Anopheles quadrimaculatus</i>	39	1084		
<i>Coquillettidia perturbans</i>	3	30		
<i>Culex erraticus</i>	115	6320		
<i>Culex pipiens</i>	502	8434	6	0.711
<i>Culex restuans</i>	409	4442	2	0.450
<i>Culex salinarius</i>	98	2726		
<i>Culex spp.</i>	514	9417	3	0.319
<i>Culex territans</i>	7	29		
<i>Culiseta melanura</i>	227	3648	2	0.548
<i>Psorophora ferox</i>	1	5		
<b>Cumberland</b>	<b>140</b>	<b>2501</b>	<b>1</b>	<b>0.400</b>
<i>Aedes albopictus</i>	12	131		
<i>Aedes atlanticus</i>	2	12		
<i>Aedes cantator</i>	1	15		
<i>Aedes japonicas</i>	20	115		
<i>Aedes triseriatus</i>	2	11		
<i>Aedes vexans</i>	2	5		
<i>Anopheles punctipennis</i>	1	1		
<i>Anopheles quadrimaculatus</i>	2	5		
<i>Culex erraticus</i>	12	104		
<i>Culex pipiens</i>	22	588	1	1.701
<i>Culex restuans</i>	6	22		
<i>Culex salinarius</i>	1	5		
<i>Culex spp.</i>	41	1345		
<i>Culex territans</i>	1	1		
<i>Culiseta melanura</i>	14	135		
<i>Psorophora ferox</i>	1	6		
<b>Essex</b>	<b>280</b>	<b>3817</b>	<b>2</b>	<b>0.524</b>
<i>Aedes albopictus</i>	22	130		
<i>Aedes japonicus</i>	31	170		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	20	34		
<i>Aedes trivittatus</i>	4	28		
<i>Aedes vexans</i>	19	74		
<i>Anopheles punctipennis</i>	9	16		
<i>Anopheles quadrimaculatus</i>	7	14		
<i>Coquillettidia perturbans</i>	4	6		
<i>Culex spp.</i>	157	3297	2	0.607
<i>Psorophora ciliata</i>	1	3		
<i>Psorophora ferox</i>	5	44		

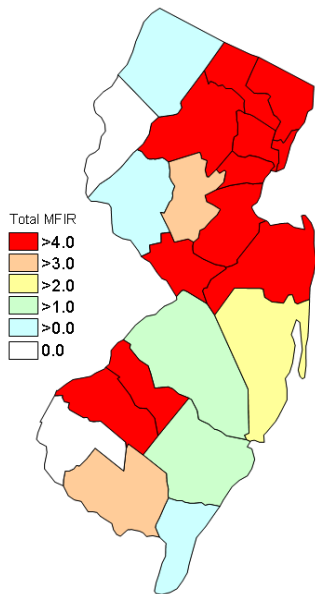


<b>Gloucester</b>	<b>686</b>	<b>13632</b>	<b>3</b>	<b>0.220</b>
<i>Aedes albopictus</i>	59	644		
<i>Aedes atlanticus</i>	1	1		
<i>Aedes canadensis canadensis</i>	2	2		
<i>Aedes japonicus</i>	66	520		
<i>Aedes thibaulti</i>	1	4		
<i>Aedes triseriatus</i>	12	53		
<i>Aedes trivittatus</i>	1	75		
<i>Aedes vexans</i>	17	98		
<i>Anopheles barberi</i>	3	20		
<i>Anopheles crucians</i>	2	21		
<i>Anopheles punctipennis</i>	39	212		
<i>Anopheles quadrimaculatus</i>	43	194		
<i>Anopheles walkeri</i>	1	19		
<i>Coquilletidia perturbans</i>	7	31		
<i>Culex pipiens</i>	326	10755	3	0.279
<i>Culex restuans</i>	20	142		
<i>Culex salinarius</i>	1	1		
<i>Culex territans</i>	4	9		
<i>Culiseta melanura</i>	78	821		
<i>Psorophora ciliata</i>	2	9		
<i>Psorophora ferox</i>	1	1		
<b>Hudson</b>	<b>238</b>	<b>11726</b>	<b>44</b>	<b>3.752</b>
<i>Culex</i> spp.	238	11726	44	3.752
<b>Hunterdon</b>	<b>382</b>	<b>16487</b>	<b>39</b>	<b>2.366</b>
<i>Aedes albopictus</i>	1	45		
<i>Culex erraticus</i>	6	129		
<i>Culex</i> spp.	375	16313	39	2.391
<b>Mercer</b>	<b>654</b>	<b>10191</b>	<b>20</b>	<b>1.963</b>
<i>Aedes albopictus</i>	102	388		
<i>Aedes japonicus</i>	110	298		
<i>Aedes triseriatus</i>	18	31		
<i>Culex erraticus</i>	4	4		
<i>Culex pipiens</i>	130	1333	6	4.501
<i>Culex restuans</i>	139	1908		
<i>Culex salinarius</i>	8	38		
<i>Culex</i> spp.	143	6191	14	2.261
<b>Middlesex</b>	<b>329</b>	<b>13833</b>	<b>13</b>	<b>0.940</b>
<i>Aedes albopictus</i>	11	87		
<i>Aedes japonicus</i>	29	357		
<i>Aedes triseriatus</i>	1	6		
<i>Culex</i> spp.	288	13383	13	0.971
<b>Monmouth</b>	<b>739</b>	<b>6428</b>	<b>2</b>	<b>0.311</b>
<i>Aedes albopictus</i>	82	396		
<i>Aedes atlanticus</i>	4	4		
<i>Aedes canadensis canadensis</i>	39	309		
<i>Aedes cantator</i>	11	52		

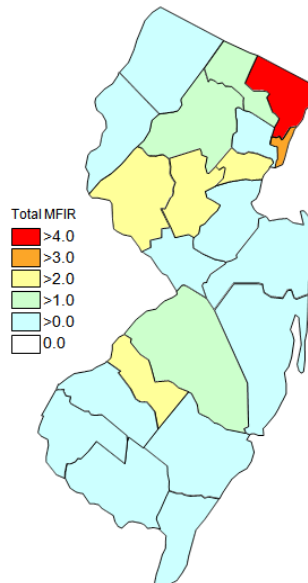
<i>Aedes japonicus</i>	64	300		
<i>Aedes sollicitans</i>	2	3		
<i>Aedes thibaulti</i>	1	1		
<i>Aedes triseriatus</i>	31	140		
<i>Aedes trivittatus</i>	9	21		
<i>Aedes vexans</i>	24	121		
<i>Anopheles barberi</i>	3	3		
<i>Anopheles crucians</i>	2	4		
<i>Anopheles punctipennis</i>	36	160		
<i>Anopheles quadrimaculatus</i>	17	40		
<i>Coquillettidia perturbans</i>	6	15		
<i>Culex erraticus</i>	16	145		
<i>Culex pipiens</i>	24	64		
<i>Culex restuans</i>	31	84		
<i>Culex salinarius</i>	1	5		
<i>Culex</i> spp.	166	2981	2	0.671
<i>Culex territans</i>	14	63		
<i>Culiseta melanura</i>	140	1470		
<i>Culiseta morsitans</i>	1	1		
<i>Psorophora columbiae</i>	1	3		
<i>Psorophora ferox</i>	7	34		
<i>Uranotaenia sapphirina</i>	7	9		
<b>Morris</b>	<b>215</b>	<b>8678</b>	<b>9</b>	<b>1.037</b>
<i>Aedes japonicus</i>	30	421		
<i>Aedes triseriatus</i>	5	39		
<i>Anopheles punctipennis</i>	1	2		
<i>Culex</i> spp.	179	8216	9	1.095
<b>Ocean</b>	<b>705</b>	<b>10812</b>	<b>6</b>	<b>0.555</b>
<i>Aedes albopictus</i>	93	1206	1	0.829
<i>Aedes atlanticus</i>	5	8		
<i>Aedes canadensis canadensis</i>	41	951		
<i>Aedes cantator</i>	21	157		
<i>Aedes cinereus</i>	1	1		
<i>Aedes grossbecki</i>	1	1		
<i>Aedes japonicus</i>	85	446		
<i>Aedes sollicitans</i>	8	133		
<i>Aedes sticticus</i>	6	10		
<i>Aedes taeniorhynchus</i>	2	20		
<i>Aedes triseriatus</i>	35	99		
<i>Aedes trivittatus</i>	5	15		
<i>Aedes vexans</i>	53	224	1	4.464
<i>Anopheles bradleyi</i>	13	98		
<i>Anopheles punctipennis</i>	28	54		
<i>Anopheles quadrimaculatus</i>	10	22		
<i>Coquillettidia perturbans</i>	13	25		
<i>Culex erraticus</i>	2	2		
<i>Culex pipiens</i>	4	5		
<i>Culex restuans</i>	20	39		
<i>Culex salinarius</i>	24	89		
<i>Culex</i> spp.	167	6844	4	0.584
<i>Culiseta melanura</i>	51	283		
<i>Psorophora columbiae</i>	2	2		

<i>Psorophora ferox</i>	15	78		
<b>Passaic</b>	<b>120</b>	<b>2193</b>	<b>4</b>	<b>1.824</b>
<i>Aedes albopictus</i>	10	76		
<i>Aedes canadensis canadensis</i>	1	20		
<i>Aedes japonicus</i>	28	450		
<i>Aedes triseriatus</i>	14	67	1	14.925
<i>Anopheles punctipennis</i>	2	5		
<i>Culex</i> spp.	65	1575	3	1.905
<b>Salem</b>	<b>244</b>	<b>6295</b>	<b>3</b>	<b>0.477</b>
<i>Aedes albopictus</i>	16	57		
<i>Aedes japonicus</i>	8	37		
<i>Aedes triseriatus</i>	3	3		
<i>Aedes trivittatus</i>	1	4		
<i>Aedes vexans</i>	12	521		
<i>Anopheles punctipennis</i>	11	57		
<i>Anopheles quadrimaculatus</i>	12	163		
<i>Coquillettidia perturbans</i>	4	128		
<i>Culex erraticus</i>	28	426		
<i>Culex pipiens</i>	7	69	1	14.493
<i>Culex restuans</i>	9	123		
<i>Culex salinarius</i>	11	297		
<i>Culex</i> spp.	73	3596	2	0.556
<i>Culex territans</i>	2	2		
<i>Culiseta melanura</i>	42	584		
<i>Psorophora ciliate</i>	2	4		
<i>Psorophora columbiae</i>	3	224		
<b>Somerset</b>	<b>345</b>	<b>7075</b>	<b>16</b>	<b>2.261</b>
<i>Aedes albopictus</i>	16	48		
<i>Aedes canadensis canadensis</i>	2	8		
<i>Aedes japonicus</i>	44	573		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	40	153		
<i>Aedes trivittatus</i>	12	422		
<i>Aedes vexans</i>	3	25		
<i>Anopheles punctipennis</i>	13	34		
<i>Anopheles quadrimaculatus</i>	6	10		
<i>Coquillettidia perturbans</i>	3	4		
<i>Culex</i> spp.	202	5779	16	2.769
<i>Psorophora ferox</i>	3	18		
<b>Sussex</b>	<b>380</b>	<b>9981</b>	<b>6</b>	<b>0.601</b>
<i>Aedes japonicus</i>	6	36		
<i>Aedes triseriatus</i>	47	259		
<i>Coquillettidia perturbans</i>	3	94		
<i>Culex pipiens</i>	17	226		
<i>Culex restuans</i>	6	190		
<i>Culex salinarius</i>	14	51		
<i>Culex</i> spp.	274	9080	6	0.661
<i>Culiseta melanura</i>	12	42		
<i>Culiseta morsitans</i>	1	3		

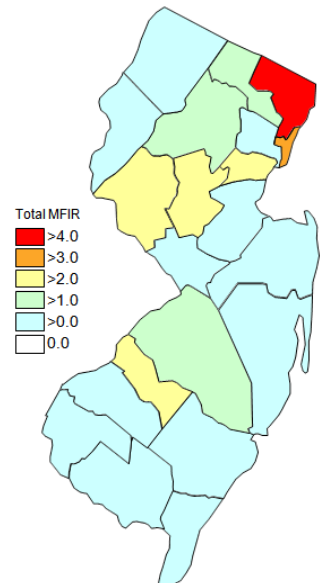
<b>Union</b>	<b>169</b>	<b>4552</b>	<b>12</b>	<b>2.636</b>
<i>Aedes albopictus</i>	24	95		
<i>Aedes japonicus</i>	20	139		
<i>Aedes sollicitans</i>	3	35		
<i>Aedes triseriatus</i>	3	6		
<i>Aedes vexans</i>	8	109		
<i>Anopheles punctipennis</i>	2	6		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex spp.</i>	105	4087	12	2.936
<i>Psorophora ferox</i>	3	74		
<b>Warren</b>	<b>291</b>	<b>14179</b>	<b>1</b>	<b>0.071</b>
<i>Aedes triseriatus</i>	2	5		
<i>Culex spp.</i>	289	14174	1	0.071
<b>Grand Total</b>	<b>9647</b>	<b>224075</b>	<b>322</b>	<b>1.437</b>



Cumulative activity in 2008



Activity this year to 29 Oct 2009



Activity last week, 2009.

## Saint Louis Encephalitis (SLE) through 29 October 2009.

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.

<b>County</b>	<b>Species</b>	<b>Pools</b>	<b>Mosquitoes</b>	<b>Positives</b>	<b>MFIR</b>
<b>Burlington</b>		<b>499</b>	<b>12865</b>		
	<i>Aedes abserratus</i>	1	1		
	<i>Aedes albopictus</i>	45	316		
	<i>Aedes atlanticus</i>	3	18		
	<i>Aedes atropalpus</i>	2	16		
	<i>Aedes canadensis canadensis</i>	21	649		
	<i>Aedes cantator</i>	6	70		
	<i>Aedes cinereus</i>	1	6		
	<i>Aedes japonicus</i>	36	179		
	<i>Aedes sollicitans</i>	5	71		
	<i>Aedes sticticus</i>	1	41		
	<i>Aedes taeniorhynchus</i>	4	57		
	<i>Aedes triseriatus</i>	15	84		
	<i>Aedes trivittatus</i>	2	9		
	<i>Aedes vexans</i>	28	793		
	<i>Anopheles barberi</i>	1	1		
	<i>Anopheles bradleyi</i>	11	490		
	<i>Anopheles crucians</i>	2	11		
	<i>Anopheles punctipennis</i>	9	40		
	<i>Anopheles quadrimaculatus</i>	3	11		
	<i>Coquillettidia perturbans</i>	21	288		
	<i>Culex erraticus</i>	11	36		
	<i>Culex pipiens</i>	1	75		
	<i>Culex restuans</i>	2	4		
	<i>Culex salinarius</i>	24	603		
	<i>Culex spp.</i>	151	6469		
	<i>Culex territans</i>	2	7		
	<i>Culiseta inornata</i>	1	2		
	<i>Culiseta melanura</i>	76	2272		
	<i>Psorophora ciliate</i>	2	34		
	<i>Psorophora columbiae</i>	2	7		
	<i>Psorophora ferox</i>	7	182		
	<i>Psorophora howardii</i>	1	6		
	<i>Uranotaenia sapphirina</i>	2	17		
<b>Camden</b>		<b>191</b>	<b>4887</b>		
	<i>Aedes albopictus</i>	29	146		
	<i>Aedes japonicus</i>	29	82		
	<i>Aedes triseriatus</i>	5	5		
	<i>Aedes vexans</i>	1	1		
	<i>Culex pipiens</i>	2	95		
	<i>Culex restuans</i>	1	1		
	<i>Culex spp.</i>	121	4554		
	<i>Orthopodomyia signifera</i>	3	3		

<b>Cape May</b>	<b>974</b>	<b>17345</b>		
<i>Aedes albopictus</i>	18	88		
<i>Aedes cantator</i>	1	2		
<i>Aedes japonicus</i>	6	34		
<i>Aedes triseriatus</i>	3	14		
<i>Anopheles quadrimaculatus</i>	1	1		
<i>Coquillettidia perturbans</i>	2	22		
<i>Culex erraticus</i>	2	78		
<i>Culex pipiens</i>	350	6575		
<i>Culex restuans</i>	178	1775		
<i>Culex salinarius</i>	21	182		
<i>Culex spp.</i>	379	8423		
<i>Culiseta melanura</i>	13	151		
<b>Essex</b>	<b>216</b>	<b>3563</b>		
<i>Aedes albopictus</i>	21	128		
<i>Aedes japonicus</i>	17	107		
<i>Aedes sticticus</i>	1	1		
<i>Aedes triseriatus</i>	9	14		
<i>Aedes vexans</i>	9	25		
<i>Anopheles punctipennis</i>	1	1		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex spp.</i>	155	3283		
<i>Psorophora ferox</i>	2	3		
<b>Hunterdon</b>	<b>66</b>	<b>3300</b>		
<i>Culex spp.</i>	66	3300		
<b>Mercer</b>	<b>636</b>	<b>10089</b>		
<i>Aedes albopictus</i>	102	388		
<i>Aedes japonicus</i>	106	294		
<i>Aedes triseriatus</i>	18	31		
<i>Aedes erraticus</i>	3	3		
<i>Culex pipiens</i>	127	1322		
<i>Culex restuans</i>	135	1865		
<i>Culex salinarius</i>	6	36		
<i>Culex spp.</i>	139	6150		
<b>Ocean</b>	<b>2</b>	<b>3</b>		
<i>Aedes albopictus</i>	1	1		
<i>Culex spp.</i>	1	2		
<b>Somerset</b>	<b>22</b>	<b>557</b>		
<i>Aedes albopictus</i>	1	4		
<i>Culex spp.</i>	21	553		
<b>Sussex</b>	<b>30</b>	<b>187</b>		
<i>Aedes triseriatus</i>	30	187		
<b>Warren</b>	<b>15</b>	<b>739</b>		

<i>Culex sp.</i>	15	739		
<b>Grand Total</b>	<b>2651</b>	<b>53535</b>		

Specimens submitted by the counties continue to be negative for SLE.

### La Crosse Encephalitis (LAC) through 29 October 2009.

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).

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Cape May</b>		<b>322</b>	<b>1397</b>		
	<i>Aedes albopictus</i>	120	440		
	<i>Aedes japonicus</i>	146	577		
	<i>Aedes sollicitans</i>	1	2		
	<i>Aedes triseriatus</i>	42	138		
	<i>Anopheles bradleyi</i>	1	34		
	<i>Culex pipiens</i>	1	41		
	<i>Culex restuans</i>	1	8		
	<i>Culex salinarius</i>	2	77		
	<i>Culex spp.</i>	6	70		
	<i>Culiseta melanura</i>	2	10		
<b>Passaic</b>		<b>2</b>	<b>17</b>		
	<i>Aedes triseriatus</i>	2	17		
<b>Sussex</b>		<b>58</b>	<b>394</b>		
	<i>Aedes japonicus</i>	2	30		
	<i>Aedes triseriatus</i>	47	259		
	<i>Culex pipiens</i>	1	11		
	<i>Culex spp.</i>	8	94		
<b>Warren</b>		<b>2</b>	<b>5</b>		
	<i>Aedes triseriatus</i>	2	5		
<b>Grand Total</b>		<b>384</b>	<b>1813</b>		

Specimens submitted by the counties continue to be negative for LAC.