

# VECTOR SURVEILLANCE IN NEW JERSEY

EEE, WNV, SLE, LAC, DEN and CHIK

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CDC WEEK 32: 9 August to 15 August, 2015

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## *Culiseta melanura* and Eastern Equine Encephalitis

SITE/Boxes	Inland or Coastal	Historic Population Mean	Current Weekly Mean	Total Tested* (Collected)	Total Pools Tested* (Submitted)	EEE Isolation Pools	MFIR
Bass River (Burlington Co.)/5	Coastal	0.27	0.20	8 (9)	6 (7)		
Green Bank (Burlington Co.)/25	Coastal	4.01	0.48	59 (71)	8 (9)		
Corbin City (Atlantic Co.)/25	Coastal	0.94	1.00	153 (178)	9 (10)		
Dennisville (Cape May Co.)/50	Coastal	6.63	0.36	215	9		
Winslow (Camden Co.)/50	Inland	2.11	2.60	1095	27	1	0.91
Centerton (Salem Co.)/50	Inland	2.94	0.82	583	18		
Turkey Swamp (Monmouth Co.)/49	Inland	1.28	2.33	159 (273)	10 (12)		
Glassboro (Gloucester Co.)/50	Inland	0.44	0.44	157	11		

\*Current week (in parentheses) results pending.

**Remarks:** A total of three positive mosquito pools for EEE have been detected in NJ. First detection of EEE in a pool of *Culiseta melanura* was collected at the Winslow resting box site on the 27<sup>th</sup> of July. Current MFIR at that resting box site is 0.91. Two additional positive pools of *Culiseta melanura* were collected at a Burlington county resting box site.

**Traditional Resting Box Sites:** One EEE positive *Cs. melanura* pool has been detected at the state resting box sites to date. 2429 *Cs. melanura* from 98 pools have been tested for EEE with an additional 5 pools containing 152 *Cs. melanura* to be tested. MFIR for the traditional resting box sites is 0.41 with an overall state MFIR of 0.29.

		Additional <i>Cs. melanura</i> trapped by counties *traps with positives indicated in <b>BOLD</b> .			
County	Trap types*	Pools	Mosquitoes	Positives	MFIR
Atlantic	CO <sub>2</sub>	10 42 30 10 6 9 1	76	2 1.19	
Burlington	<b>CO<sub>2</sub></b>		1680		
Cape May	GR, RB		174		
Cumberland	CO <sub>2</sub> , RB		83		
Middlesex	RB		40		
Ocean	CO <sub>2</sub> , GR, RB		36		
Salem	CO <sub>2</sub>		1		
<b>TOTAL</b>		<b>108</b>	<b>2090</b>	<b>2</b>	<b>0.96</b>

**Additional *Cs. melanura*:**  
Counties maintain trap sites for *Cs. melanura* in other areas. One additional pool from Burlington County, collected from a CO<sub>2</sub> trap on 3 August was positive.

Species other than <i>Cs. melanura</i>	Pools	Mosquitoes	Positives	MFIR
<i>Aedes cantator</i>	22	32		
<i>Aedes sollicitans</i>	7	232		
<i>Anopheles bradleyi</i>	3	5		
<i>Anopheles crucians</i>	1	1		
<i>Anopheles punctipennis</i>	6	21		
<i>Anopheles quadrimaculatus</i>	2	51		
<i>Coquillettidia perturbans</i>	59	1183		
<i>Culex erraticus</i>	3	3		
<i>Culex pipiens</i>	131	1054		
<i>Culex restuans</i>	2	2		
<i>Culex salinarius</i>	27	466		
<i>Culex</i> sp.	12	29		
<b>State Total</b>	<b>275</b>	<b>3079</b>		

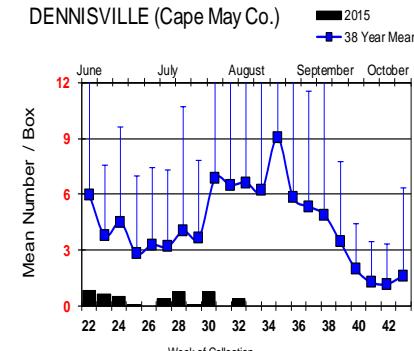
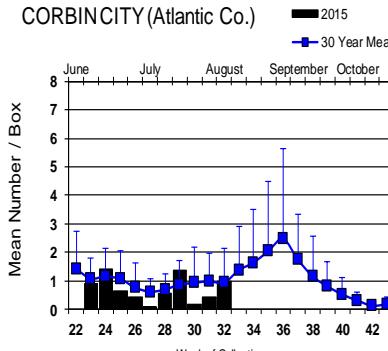
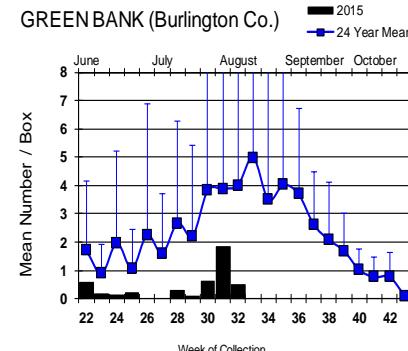
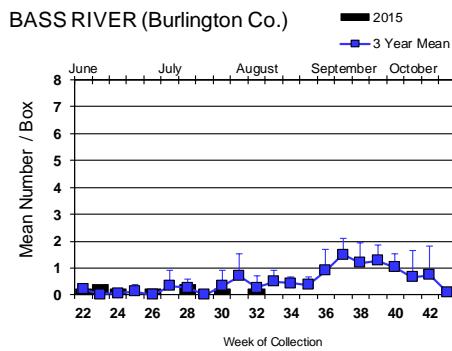
**Additional Species:** Eleven additional species were tested for EEE and no positives were detected.

**Horses and Humans:** No horses or humans have been reported with EEE.

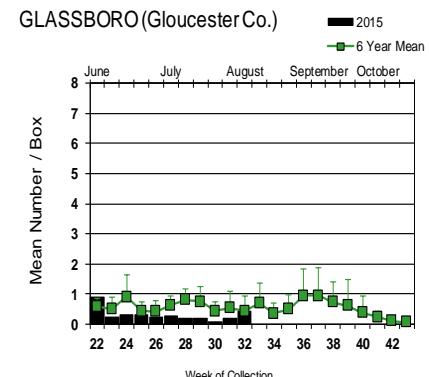
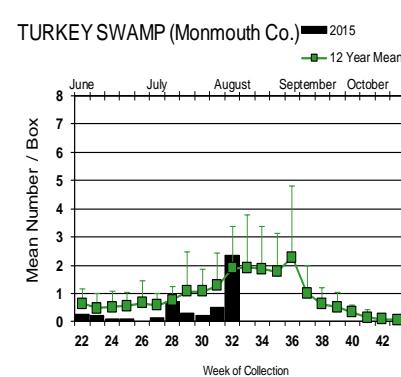
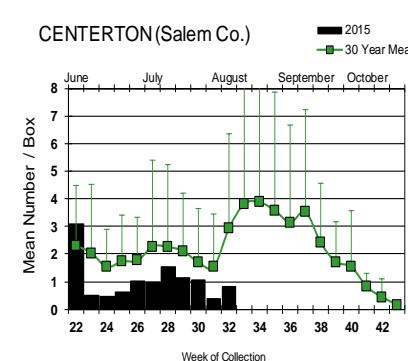
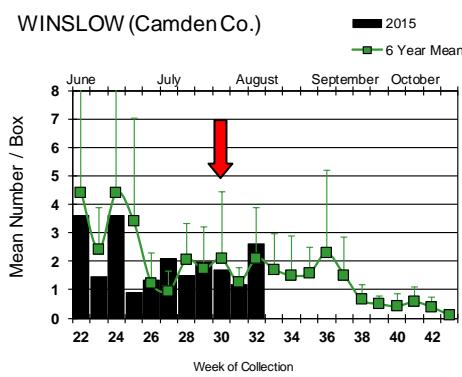
**Horses and Vaccinations:** The fate of unvaccinated equids reinforces the necessity of maintaining a vaccination schedule for arboviruses. For vaccination schedules recommended by the American Association of Equine Practices, see: [http://www.aaep.org/vaccination\\_guidelines.htm](http://www.aaep.org/vaccination_guidelines.htm)

## Culiseta melanura Population Graphs

### Coastal



### Inland



Populations of *Cs. melanura* at Corbin City, Winslow (with previous activity), Turkey Swamp and Glassboro were at or surpassed historical values while population averages at the other traditional resting box sites were well below historical values.



= Positive pool(s) detected (red = melanura, purple = other species).

**EEE in US** (2015 cumulative cases): (Black or Red = previous + new reported cases occurring)

- equine: FL(18/1goat) LA(1) MS(2) NC(1) SC(3) TX(6) VA(1)
- mosquito pools: NJ (3) NY(13)
- sentinel: FL(56), TX(16)
- human: LA (1)

## West Nile Virus Positive Organisms in US, 2015

West Nile in US (2015 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	59		0	17/25
Arkansas				0	2/4
California	363/418	1333/1577	90/104		18/36
Colorado	3/6	30/48		2/4	3/5
Connecticut		16/36			0
Delaware	1/2				1
DC					0
Florida		6	33/40		3/4
Georgia	0	0		0	0
Hawaii					
Idaho	0	12		1	2/4
Illinois	4/13	16/494		0	0
Indiana	0	63/82			0
Iowa		0		0	1
Kansas		0			4
Kentucky				0	
Louisiana	3/10	251/303			11/13
Maine					
Maryland					
Mass.		49/58		0	0
Michigan	5/10	2/3			
Minnesota	2	1			
Mississippi		25/26		0	3/7
Missouri		1/98		2	0

	Birds	Mosquito Pools	Sentinels	Horses	Humans
Montana					1
Nebraska	0	50/62		0	5/12
Nevada		63			
New Hampshire		0		0	0
New Jersey	7	136/201		0	2
New Mexico					1/2
New York		36			
North Carolina					
North Dakota	0	4		1	1/4
Ohio		28			2/3
Oklahoma		2			11/12
Oregon	2	7/15	0	1	0
Pennsylvania	5/6	784/1057			1
Rhode Island		0		0	0
South Carolina					
South Dakota		1/7			5/9
Tennessee		117			1
Texas	3/4	483/643		2	9/17
Utah		31			
Vermont		6			
Virginia					
Washington	2/3	85/110		6/10	8/13
West Virginia					
Wisconsin	8/14	0		0	0
Wyoming					1

\* Can include other species (e.g., dogs, cows) reported positive.

**Mosquito Species Submitted and Tested  
for West Nile Virus Testing through 17 August 2015**

Species	Pools	Mosquitoes	Positives	MFIR
<i>Aedes albopictus</i>	442	3141	2	0.637
<i>Aedes atlanticus</i>	1	6		
<i>Aedes atropalpus</i>	1	1		
<i>Aedes canadensis canadensis</i>	16	166		
<i>Aedes cantator</i>	28	202		
<i>Aedes grossbecki</i>	9	40		
<i>Aedes japonicus</i>	184	1115	1	0.897
<i>Aedes sollicitans</i>	7	232		
<i>Aedes taeniorhynchus</i>	3	35		
<i>Aedes triseriatus</i>	53	171		
<i>Aedes trivittatus</i>	3	4		
<i>Aedes vexans</i>	34	684		
<i>Anopheles bradleyi</i>	4	20		
<i>Anopheles crucians</i>	1	1		
<i>Anopheles punctipennis</i>	24	78		
<i>Anopheles quadrimaculatus</i>	37	572		
<i>Coquillettidia perturbans</i>	63	1261		
<i>Culex erraticus</i>	10	61		
<i>Culex pipiens</i>	270	8275	20	2.417
<i>Culex restuans</i>	211	1724	2	1.160
<i>Culex salinarius</i>	29	502		
<i>Culex</i> sp.	1387	56576	171	3.022
<i>Culex territans</i>	6	10		
<i>Culiseta melanura</i>	208	4525	5	1.105
<i>Psorophora ciliata</i>	3	20		
<i>Psorophora columbiae</i>	7	206		
<i>Psorophora ferox</i>	5	12		
<b>Grand Total</b>	<b>3046</b>	<b>79640</b>	<b>201</b>	<b>2.524</b>

**Remarks:** To date, 3046 pools of 79,640 mosquitoes from 26 species have been tested, with 201 positive pools detected, most in ornithophilic *Culex/Culiseta* pools. Most recent non-*Culex* species to become positive was a pool of *Aedes japonicus* sampled 23 July in Camden County. First positive of the season occurred in Middlesex County, in a pool of mixed *Culex*, collected on the 22<sup>nd</sup> of June. First positive pool in non-*Culex* was in an *Aedes albopictus* pool, collected in Monmouth County on 10 July. First positive pool in a non-*Culex* ornithophilic species was found in *Culiseta melanura* in Cape May 21 July. Overall state MFIR is 1.942, up from the previous week of 1.797.

**Humans, Horses and Wild Birds:** Two human cases of WNV have been reported, one each in Burlington and Camden counties. For further information, see <http://www.state.nj.us/health/cd/westnile/techinfo.shtml>.

No horse cases have been detected.

Bird testing began in mid-April. Seven positive birds have been reported, mostly corvids. To date, 35 birds have been tested. Species includes: American Crow (*Corvus brachyrhynchos* 3/5) Fish Crow (*Corvus ossifragus* 1/10), Blue Jay (*Cyanocitta cristata* 1/3), unidentified corvid (1/2), Hawk/Raptor (0/1) and other avian species (1/14). Counties (**positives**) submitting birds are Atlantic, Bergen, **Burlington**, **Cumberland**, Essex, **Gloucester**, Hunterdon, Mercer, Monmouth, Morris, Ocean, Salem and Warren.

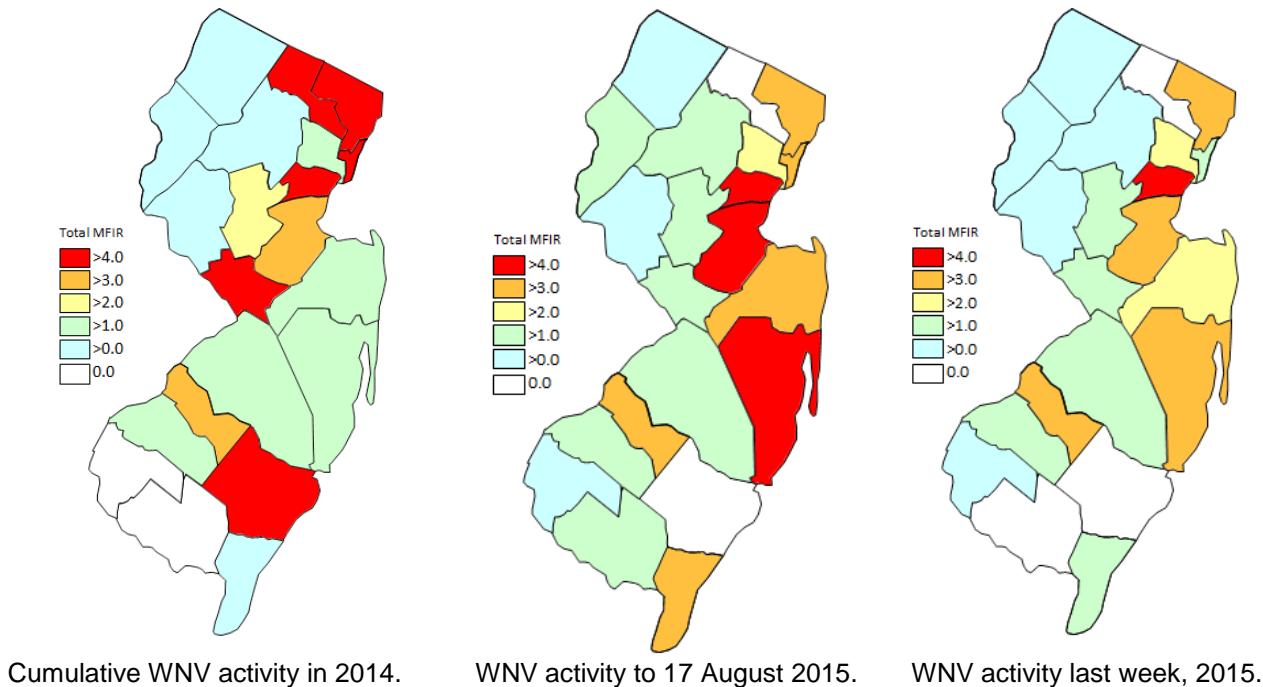
## WNV Results by County through 17 August 2015

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Atlantic</b>		<b>114</b>	<b>3214</b>		
	<i>Aedes albopictus</i>	18	166		
	<i>Aedes japonicus</i>	9	33		
	<i>Aedes taeniorhynchus</i>	1	5		
	<i>Aedes vexans</i>	6	238		
	<i>Coquillettidia perturbans</i>	15	416		
	<i>Culex</i> spp.	45	2126		
	<i>Culiseta melanura</i>	19	229		
	<i>Psorophora ferox</i>	1	1		
<b>Bergen</b>		<b>55</b>	<b>3800</b>	<b>14</b>	<b>3.684</b>
	<i>Aedes japonicus</i>	5	175		
	<i>Culex</i> spp.	50	3625	14	3.862
<b>Burlington</b>		<b>103</b>	<b>3437</b>	<b>5</b>	<b>1.455</b>
	<i>Aedes albopictus</i>	3	59		
	<i>Aedes japonicus</i>	1	15		
	<i>Coquillettidia perturbans</i>	2	15		
	<i>Culex salinarius</i>	4	152		
	<i>Culex</i> spp.	37	1449	4	2.761
	<i>Culiseta melanura</i>	56	1747	1	0.572
<b>Camden</b>		<b>160</b>	<b>5865</b>	<b>21</b>	<b>3.581</b>
	<i>Aedes albopictus</i>	10	22		
	<i>Aedes canadensis canadensis</i>	2	12		
	<i>Aedes cantator</i>	1	1		
	<i>Aedes japonicus</i>	31	319	1	3.135
	<i>Anopheles punctipennis</i>	2	6		
	<i>Culex</i> spp.	84	4404	18	4.087
	<i>Culiseta melanura</i>	28	1096	2	1.825
	<i>Psorophora ferox</i>	2	5		
<b>Cape May</b>		<b>580</b>	<b>3486</b>	<b>11</b>	<b>3.155</b>
	<i>Aedes albopictus</i>	29	45		
	<i>Aedes atropalpus</i>	1	1		
	<i>Aedes canadensis canadensis</i>	5	5		
	<i>Aedes cantator</i>	22	32		
	<i>Aedes japonicus</i>	63	151		
	<i>Aedes sollicitans</i>	1	1		
	<i>Aedes triseriatus</i>	30	56		
	<i>Aedes vexans</i>	2	5		
	<i>Anopheles bradleyi</i>	3	5		
	<i>Anopheles punctipennis</i>	5	5		
	<i>Anopheles quadrimaculatus</i>	30	527		
	<i>Coquillettidia perturbans</i>	20	511		
	<i>Culex erraticus</i>	3	3		
	<i>Culex pipiens</i>	131	1054	8	7.590
	<i>Culex restuans</i>	163	604	1	1.656
	<i>Culex salinarius</i>	18	58		
	<i>Culex</i> spp.	9	24		
	<i>Culex territans</i>	6	10		
	<i>Culiseta melanura</i>	39	389	2	5.141

<b>Cumberland</b>	<b>106</b>	<b>1874</b>	<b>2</b>	<b>1.067</b>
<i>Aedes albopictus</i>	12	38		
<i>Aedes atlanticus</i>	1	6		
<i>Aedes canadensis canadensis</i>	2	53		
<i>Aedes cantator</i>	1	2		
<i>Aedes grossbecki</i>	9	40		
<i>Aedes japonicus</i>	2	8		
<i>Aedes sollicitans</i>	6	231		
<i>Aedes taeniorhynchus</i>	2	30		
<i>Aedes triseriatus</i>	2	6		
<i>Aedes trivittatus</i>	1	2		
<i>Aedes vexans</i>	10	349		
<i>Anopheles bradleyi</i>	1	15		
<i>Anopheles punctipennis</i>	2	17		
<i>Anopheles quadrimaculatus</i>	3	23		
<i>Coquillettidia perturbans</i>	8	61		
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	5	256		
<i>Culex</i> spp.	20	458	2	4.367
<i>Culiseta melanura</i>	10	83		
<i>Psorophora ciliata</i>	3	20		
<i>Psorophora columbiae</i>	5	175		
<b>Essex</b>	<b>99</b>	<b>1751</b>	<b>5</b>	<b>2.856</b>
<i>Aedes albopictus</i>	2	4		
<i>Aedes japonicus</i>	13	30		
<i>Aedes trivittatus</i>	1	1		
<i>Anopheles punctipennis</i>	1	2		
<i>Anopheles quadrimaculatus</i>	2	17		
<i>Culex</i> spp.	78	1691	5	2.957
<i>Psorophora ferox</i>	2	6		
<b>Gloucester</b>	<b>206</b>	<b>7179</b>	<b>10</b>	<b>1.393</b>
<i>Aedes albopictus</i>	82	583		
<i>Aedes japonicus</i>	4	35		
<i>Aedes triseriatus</i>	1	3		
<i>Coquillettidia perturbans</i>	1	2		
<i>Culex pipiens</i>	107	6399	10	1.563
<i>Culiseta melanura</i>	11	157		
<b>Hudson</b>	<b>108</b>	<b>4750</b>	<b>18</b>	<b>3.789</b>
<i>Aedes albopictus</i>	14	224		
<i>Culex</i> spp.	94	4526	18	3.977
<b>Hunterdon</b>	<b>128</b>	<b>6400</b>	<b>4</b>	<b>0.625</b>
<i>Culex</i> spp.	128	6400	4	0.625
<b>Mercer</b>	<b>144</b>	<b>3958</b>	<b>6</b>	<b>1.516</b>
<i>Aedes albopictus</i>	12	42		
<i>Aedes japonicus</i>	3	16		
<i>Aedes vexans</i>	13	87		
<i>Coquillettidia perturbans</i>	4	32		
<i>Culex pipiens</i>	31	821	2	2.436
<i>Culex restuans</i>	44	1116	1	0.896

<i>Culex</i> spp.	37	1844	3	1.627
<b>Middlesex</b>	<b>185</b>	<b>6413</b>	<b>28</b>	<b>4.366</b>
<i>Aedes albopictus</i>	66	161		
<i>Culex</i> spp.	113	6212	28	4.507
<i>Culiseta melanura</i>	6	40		
<b>Monmouth</b>	<b>280</b>	<b>4987</b>	<b>16</b>	<b>3.208</b>
<i>Aedes albopictus</i>	132	1183	1	0.845
<i>Aedes canadensis canadensis</i>	6	93		
<i>Aedes cantator</i>	4	167		
<i>Aedes japonicus</i>	3	10		
<i>Aedes trivittatus</i>	1	1		
<i>Aedes vexans</i>	1	2		
<i>Anopheles crucians</i>	1	1		
<i>Anopheles punctipennis</i>	9	25		
<i>Anopheles quadrimaculatus</i>	2	5		
<i>Coquillettidia perturbans</i>	1	1		
<i>Culex erraticus</i>	6	57		
<i>Culex restuans</i>	1	1		
<i>Culex salinarius</i>	2	36		
<i>Culex</i> spp.	98	3210	15	4.673
<i>Culiseta melanura</i>	11	164		
<i>Psorophora columbiae</i>	2	31		
<b>Morris</b>	<b>152</b>	<b>5940</b>	<b>10</b>	<b>1.684</b>
<i>Aedes albopictus</i>	17	248		
<i>Culex</i> spp.	135	5692	10	1.757
<b>Ocean</b>	<b>123</b>	<b>1913</b>	<b>8</b>	<b>4.182</b>
<i>Aedes albopictus</i>	33	251	1	3.984
<i>Aedes canadensis canadensis</i>	1	3		
<i>Aedes japonicus</i>	23	99		
<i>Aedes triseriatus</i>	1	11		
<i>Aedes vexans</i>	1	2		
<i>Coquillettidia perturbans</i>	3	125		
<i>Culex</i> spp.	52	1386	7	5.051
<i>Culiseta melanura</i>	9	36		
<b>Passaic</b>	<b>9</b>	<b>149</b>		
<i>Aedes japonicus</i>	2	5		
<i>Aedes triseriatus</i>	2	3		
<i>Aedes vexans</i>	1	1		
<i>Culex</i> spp.	4	140		
<b>Salem</b>	<b>82</b>	<b>1074</b>	<b>1</b>	<b>0.931</b>
<i>Aedes albopictus</i>	12	115		
<i>Aedes japonicus</i>	9	17		
<i>Aedes triseriatus</i>	7	12		
<i>Coquillettidia perturbans</i>	7	23		
<i>Culex erraticus</i>	1	1		
<i>Culex pipiens</i>	1	1		
<i>Culex restuans</i>	2	2		
<i>Culex</i> spp.	24	319	1	3.135
<i>Culiseta melanura</i>	19	584		

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Somerset</b>		<b>114</b>	<b>1967</b>	<b>3</b>	<b>1.525</b>
	<i>Aedes japonicus</i>	8	121		
	<i>Aedes triseriatus</i>	5	23		
	<i>Anopheles punctipennis</i>	1	4		
	<i>Coquillettidia perturbans</i>	1	29		
	<i>Culex</i> spp.	99	1790	3	1.676
<b>Sussex</b>		<b>121</b>	<b>2608</b>	<b>1</b>	<b>0.383</b>
	<i>Aedes japonicus</i>	8	81		
	<i>Aedes triseriatus</i>	5	57		
	<i>Anopheles punctipennis</i>	4	19		
	<i>Coquillettidia perturbans</i>	1	46		
	<i>Culex</i> spp.	103	2405	1	0.416
<b>Union</b>		<b>74</b>	<b>5307</b>	<b>34</b>	<b>6.407</b>
	<i>Culex</i> spp.	74	5307	34	6.407
<b>Warren</b>		<b>103</b>	<b>3568</b>	<b>4</b>	<b>1.121</b>
	<i>Culex</i> spp.	103	3568	4	1.121
<b>Grand Total</b>		<b>3046</b>	<b>79640</b>	<b>201</b>	<b>2.524</b>



## Saint Louis Encephalitis (SLE) 2015.

New Jersey will be testing for SLE this year only when adjacent states show human activity (Cape May tests its own mosquitoes in the Cape May lab independently). 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.

County	Species	Pools	Mosquitoes	Positives	MFIR
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<b>Cape May</b>	<b>140</b>	<b>1072</b>		
<i>Culex pipiens</i>	130	1045		
<i>Culex restuans</i>	1	3		
<i>Culex spp.</i>	9	24		
<b>Grand Total</b>	<b>140</b>	<b>1072</b>		

## La Crosse Encephalitis (LAC) 2015.

New Jersey will be testing for LAC this year only when adjacent states show human activity (Cape May tests its own mosquitoes in the Cape May lab independently). 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>30</b>	<b>56</b>		
	<i>Aedes triseriatus</i>	30	56		
<b>Grand Total</b>		<b>30</b>	<b>56</b>		

## Dengue (DENV) to 17 August 2015.

New Jersey will be selectively testing for DENV (including serotypes) this year. Dengue has not had a history of local transmission here in New Jersey, but each year, travelers can bring virus back from areas in the world with virus activity. This is significant as humans are NOT dead-end hosts and thus there is the potential for local transmission (i.e., New Jersey mosquitoes biting a sick person and then biting and transmitting the disease to someone else) to be established. DENV is a flavivirus but unlike WNV, *Aedes* mosquitoes are predominant vectors. In New Jersey, *Aedes albopictus* is a candidate for local transmission. There are 4 serotypes tested for Dengue. There are currently 40 imported human cases in New Jersey, no local transmission.

\*Note\* Same pools of *Ae. albopictus* are tested for the four serotypes of Dengue as well as Chikungunya.

No pools have tested positive in 2015. Currently, there are 21 imported human cases reported in New Jersey.

County	Species	DENV1		DENV2		DENV3		DENV4		Positives	MFIR
		Pool	Mos.	Pool	Mos.	Pool	Mos.	Pool	Mos.		
<b>Atlantic</b>		<b>18</b>	<b>166</b>	<b>18</b>	<b>166</b>	<b>18</b>	<b>166</b>	<b>18</b>	<b>166</b>		
		18	166	18	166	18	166	18	166		
<b>Burlington</b>		<b>5</b>	<b>74</b>	<b>5</b>	<b>74</b>	<b>5</b>	<b>74</b>	<b>5</b>	<b>74</b>		
		5	74	5	74	5	74	5	74		
<b>Camden</b>		<b>10</b>	<b>21</b>	<b>10</b>	<b>21</b>	<b>10</b>	<b>21</b>	<b>10</b>	<b>21</b>		
		10	21	10	21	10	21	10	21		
<b>Cumberland</b>		<b>12</b>	<b>38</b>	<b>12</b>	<b>38</b>	<b>12</b>	<b>38</b>	<b>12</b>	<b>38</b>		
		12	38	12	38	12	38	12	38		

<b>Gloucester</b>	<b>90</b>	<b>679</b>	<b>90</b>	<b>679</b>	<b>90</b>	<b>679</b>	<b>90</b>	<b>679</b>	
	90	679	90	679	90	679	90	679	
<b>Hudson</b>	<b>15</b>	<b>236</b>	<b>15</b>	<b>236</b>	<b>15</b>	<b>236</b>	<b>15</b>	<b>236</b>	
	15	236	15	236	15	236	15	236	
<b>Mercer</b>	<b>12</b>	<b>42</b>	<b>12</b>	<b>42</b>	<b>12</b>	<b>42</b>	<b>12</b>	<b>42</b>	
	12	42	12	42	12	42	12	42	
<b>Middlesex</b>	<b>68</b>	<b>166</b>	<b>68</b>	<b>166</b>	<b>68</b>	<b>166</b>	<b>68</b>	<b>166</b>	
	68	166	68	166	68	166	68	166	
<b>Monmouth</b>	<b>128</b>	<b>1167</b>	<b>128</b>	<b>1167</b>	<b>128</b>	<b>1167</b>	<b>109</b>	<b>1056</b>	
	128	1167	128	1167	128	1167	109	1056	
<b>Morris</b>	<b>17</b>	<b>248</b>	<b>17</b>	<b>248</b>	<b>17</b>	<b>248</b>	<b>17</b>	<b>248</b>	
	17	248	17	248	17	248	17	248	
<b>Salem</b>	<b>14</b>	<b>127</b>	<b>14</b>	<b>127</b>	<b>14</b>	<b>127</b>	<b>14</b>	<b>127</b>	
	14	127	14	127	14	127	14	127	
<b>Grand Total</b>	<b>389</b>	<b>2964</b>	<b>389</b>	<b>2964</b>	<b>389</b>	<b>2964</b>	<b>370</b>	<b>2853</b>	

### Chikungunya (CHIK) to 17 August 2015.

New Jersey will be selectively testing for CHIK this year. Chikungunya is similar in symptoms to Dengue, a "breakbone" fever and has a low mortality rate. But this virus has had recent worldwide activity, and in the past year has come to the Western Hemisphere. As with Dengue, transmission can occur when a mosquito bites an infected human, then bites an uninfected human who subsequently becomes ill. CHIK is an alphavirus with *Aedes* mosquitoes as potential vectors. In New Jersey, *Aedes albopictus* is the mosquito of interest.

No pools have tested positive in 2015. Currently, there are 19 imported human cases reported in New Jersey.

County	Species	Pools	Mosquitoes	Positives	MFIR
<b>Atlantic</b>		<b>18</b>	<b>166</b>		
	<i>Aedes albopictus</i>	18	166		
<b>Burlington</b>		<b>5</b>	<b>74</b>		
	<i>Aedes albopictus</i>	5	74		
<b>Camden</b>		<b>10</b>	<b>21</b>		
	<i>Aedes albopictus</i>	10	21		
<b>Cape May</b>		<b>29</b>	<b>45</b>		
	<i>Aedes albopictus</i>	29	45		
<b>Cumberland</b>		<b>12</b>	<b>38</b>		
	<i>Aedes albopictus</i>	12	38		
<b>Gloucester</b>		<b>90</b>	<b>679</b>		

	<i>Aedes albopictus</i>	90	679		
<b>Hudson</b>		<b>15</b>	<b>236</b>		
	<i>Aedes albopictus</i>	15	236		
<b>Mercer</b>		<b>12</b>	<b>42</b>		
	<i>Aedes albopictus</i>	12	42		
<b>Middlesex</b>		<b>68</b>	<b>166</b>		
	<i>Aedes albopictus</i>	68	166		
<b>Monmouth</b>		<b>128</b>	<b>1167</b>		
	<i>Aedes albopictus</i>	128	1167		
<b>Morris</b>		<b>17</b>	<b>248</b>		
	<i>Aedes albopictus</i>	17	248		
<b>Salem</b>		<b>14</b>	<b>127</b>		
	<i>Aedes albopictus</i>	14	127		
<b>Grand Total</b>		<b>418</b>	<b>3009</b>		