**Culiseta melanura** and Eastern Equine Encephalitis

<table>
<thead>
<tr>
<th>SITE/Boxes</th>
<th>Inland or Coastal</th>
<th>Historic Population Mean</th>
<th>Current Weekly Mean</th>
<th>Total Tested* (Collected)</th>
<th>Total Pools Tested* (Submitted)</th>
<th>EEE Isolation Pools</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bass River (Burlington Co.)/5</td>
<td>Coastal</td>
<td>0.75</td>
<td>0.00</td>
<td>4</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green Bank (Burlington Co.)/25</td>
<td>Coastal</td>
<td>5.19</td>
<td>0.36</td>
<td>77 (86)</td>
<td>10 (11)</td>
<td>1</td>
<td>12.99</td>
</tr>
<tr>
<td>Corbin City (Atlantic Co.)/25</td>
<td>Coastal</td>
<td>1.41</td>
<td>0.48</td>
<td>167 (179)</td>
<td>10 (11)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dennisville (Cape May Co.)/50</td>
<td>Coastal</td>
<td>6.35</td>
<td>0.32</td>
<td>308</td>
<td>12</td>
<td>3</td>
<td>9.74</td>
</tr>
<tr>
<td>Winslow (Camden Co.)/50</td>
<td>Inland</td>
<td>1.20</td>
<td>1.26</td>
<td>856</td>
<td>21</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centerton (Salem Co.)/50</td>
<td>Inland</td>
<td>3.94</td>
<td>0.48</td>
<td>323</td>
<td>13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turkey Swamp (Monmouth Co.)/50</td>
<td>Inland</td>
<td>2.06</td>
<td>0.38</td>
<td>108 (127)</td>
<td>11 (12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Glassboro (Gloucester Co.)/50</td>
<td>Inland</td>
<td>0.37</td>
<td>0.66</td>
<td>376</td>
<td>13</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Current week (in parentheses) results pending.

Remarks: EEE activity continues with one additional positive *Cs. melanura* mosquito pool from the Green Bank resting box site. Total number of positive EEE pools is 6, all in *Cs. melanura*. Statewide, for all mosquitoes tested, MFIR is 0.703. *Cs. melanura* activity continue to remain relatively low (see page 3 population graphs) with regard to resting box data.

Traditional Resting Box Sites: One new EEE positive pool at the Green Bank resting box site was collected on 7 Aug. This site has, like the Dennisville site, shown low *Cs. melanura* population levels, but still detects EEE. Like the Dennisville site, this is a long-standing endemic focal site and currently has an MFIR value of 12.99. To date, 2219 *Cs. melanura* from 93 pools have been tested for EEE at the traditional resting box sites. Overall MFIR for these traditional sites is 1.80. Three additional pools containing 40 *Cs. melanura* remains to be tested.
**Additional Cs. melanura trapped by counties**
*traps with positives indicated in BOLD.*

<table>
<thead>
<tr>
<th>County</th>
<th>Trap types*</th>
<th>Number collected (pools)</th>
<th>Number of positive pools</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlantic</td>
<td>CO₂</td>
<td>4 (3)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Burlington</td>
<td>CO₂</td>
<td>3151 (67)</td>
<td>1</td>
<td>0.317</td>
</tr>
<tr>
<td>Cape May</td>
<td>RB</td>
<td>123 (11)</td>
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<td></td>
</tr>
<tr>
<td>Cumberland</td>
<td>CO₂,RB</td>
<td>74 (12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gloucester</td>
<td>RB</td>
<td>616 (44)</td>
<td>1</td>
<td>1.623</td>
</tr>
<tr>
<td>Monmouth</td>
<td>Other</td>
<td>2 (1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ocean</td>
<td>CO₂,RB</td>
<td>20 (6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salem</td>
<td>CO₂</td>
<td>7 (4)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>3997 (148)</strong></td>
<td><strong>2</strong></td>
<td><strong>0.500</strong></td>
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</tbody>
</table>

**Species other than Cs. melanura**

<table>
<thead>
<tr>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3</strong></td>
<td><strong>1</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

**Additional Species:** Counties submit additional pools of species other than Cs. melanura for EEE virus testing. Currently, no detection of EEE in other species has occurred.

**Horses and Humans:** Currently there is no reported horse or human cases.

**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 populations remain below historical values at most sites, particularly Dennisville and Green Bank, where the latest positive pool was detected. Both sites continue to demonstrate that even with low population levels, detection of virus can occur.

= Positive pool(s) detected (red = melanura, purple = other).
### West Nile Virus Positive Organisms in US

West Nile in US (2014 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.

<table>
<thead>
<tr>
<th>State</th>
<th>Birds</th>
<th>Mosquito Pools</th>
<th>Sentinels</th>
<th>Horses</th>
<th>Humans</th>
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</thead>
<tbody>
<tr>
<td>Alabama</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
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</tr>
<tr>
<td>Alaska</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Arizona</td>
<td>1</td>
<td>112/162</td>
<td>13/20</td>
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</tr>
<tr>
<td>Arkansas</td>
<td></td>
<td></td>
<td>1</td>
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</tr>
<tr>
<td>California</td>
<td>1192/1410</td>
<td>1620/2040</td>
<td>119/129</td>
<td>36/57</td>
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</tr>
<tr>
<td>Colorado</td>
<td>1</td>
<td>53/85</td>
<td>1/2</td>
<td>5/9</td>
<td></td>
</tr>
<tr>
<td>Connecticut</td>
<td>4/8</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Delaware</td>
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<tr>
<td>DC</td>
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<td></td>
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<tr>
<td>Florida</td>
<td></td>
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</tr>
<tr>
<td>Georgia</td>
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<td>1</td>
<td></td>
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</tr>
<tr>
<td>Hawaii</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Idaho</td>
<td>33/39</td>
<td></td>
<td>1</td>
<td>4</td>
<td></td>
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<tr>
<td>Illinois</td>
<td>13/15</td>
<td>140/253</td>
<td></td>
<td></td>
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<tr>
<td>Indiana</td>
<td>26/45</td>
<td></td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>Iowa</td>
<td>1</td>
<td>1</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kansas</td>
<td>0</td>
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<td>0</td>
<td></td>
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</tr>
<tr>
<td>Kentucky</td>
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</tr>
<tr>
<td>Louisiana</td>
<td>460/532</td>
<td>10/12</td>
<td>29/42</td>
<td></td>
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</tr>
<tr>
<td>Maine</td>
<td>0</td>
<td></td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Maryland</td>
<td>5</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Mass.</td>
<td>11/22</td>
<td></td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Michigan</td>
<td>2/4</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota</td>
<td>1/2</td>
<td>6/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mississippi</td>
<td>32/49</td>
<td>0</td>
<td>3/9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Missouri</td>
<td>4/34</td>
<td>0</td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

* Can include other species (e.g., dogs, cows) reported positive.
Protocols: New Jersey Department of Health (NJDH Public Health Environmental and Agricultural Laboratories, PHEAL) and the Cape May County Department of Mosquito Control tests mosquito pools using RT-PCR Taqman techniques.

Mosquito Species Submitted and Tested for West Nile Virus Testing through 18 August 2014

<table>
<thead>
<tr>
<th>Species</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Aedes albopictus</em></td>
<td>371</td>
<td>3177</td>
<td>6</td>
<td>1.889</td>
</tr>
<tr>
<td><em>Aedes canadensis canadensis</em></td>
<td>26</td>
<td>481</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes cantator</em></td>
<td>14</td>
<td>195</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes japonicus</em></td>
<td>296</td>
<td>1675</td>
<td>2</td>
<td>1.194</td>
</tr>
<tr>
<td><em>Aedes michellae</em></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes sollicitans</em></td>
<td>7</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes sticticus</em></td>
<td>3</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes taeniorhynchus</em></td>
<td>8</td>
<td>220</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes triseriatus</em></td>
<td>82</td>
<td>354</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes trivittatus</em></td>
<td>10</td>
<td>17</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Aedes vexans</em></td>
<td>34</td>
<td>247</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Anopheles bradleyi</em></td>
<td>17</td>
<td>432</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Anopheles punctipennis</em></td>
<td>59</td>
<td>707</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Anopheles quadrimaculatus</em></td>
<td>43</td>
<td>946</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Coquillettidia perturbans</em></td>
<td>62</td>
<td>1029</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Culex erraticus</em></td>
<td>21</td>
<td>131</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Culex pipiens</em></td>
<td>349</td>
<td>10686</td>
<td>11</td>
<td>1.029</td>
</tr>
<tr>
<td><em>Culex restuans</em></td>
<td>177</td>
<td>4329</td>
<td>12</td>
<td>2.772</td>
</tr>
<tr>
<td><em>Culex salinarius</em></td>
<td>24</td>
<td>271</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Culex spp.</em></td>
<td>1970</td>
<td>80964</td>
<td>192</td>
<td>2.371</td>
</tr>
<tr>
<td><em>Culex territans</em></td>
<td>3</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Culiseta melanura</em></td>
<td>255</td>
<td>5971</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Culiseta morsitans</em></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Psorophora ciliata</em></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Psorophora columbicae</em></td>
<td>5</td>
<td>13</td>
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</tr>
<tr>
<td><em>Psorophora ferox</em></td>
<td>7</td>
<td>41</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>State Total</strong></td>
<td>3846</td>
<td>111984</td>
<td>223</td>
<td>1.991</td>
</tr>
</tbody>
</table>

Remarks: To date, 3846 pools of 111,984 mosquitoes from 25 species have been tested, with 223 positive pools detected. First positive was detected in a Mixed *Culex* pool collected on 20 May in Camden County. First detection in *Ae. albopictus* occurred on 9 July in Middlesex County and first detection in *Ae. japonicus* occurred on 30 July in Ocean County. Seventeen counties have detected positive pools, including Atlantic, Bergen, Burlington, Camden, Essex, Gloucester, Hudson, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Somerset, Union and Warren Counties. Overall MFIR for the state has increased from 1.440 to 1.991.

Humans, Horses and Wild Birds: First human case of WNV has occurred, in Gloucester County. For further information, see http://www.state.nj.us/health/cd/westnile/techinfo.shtml.

Bird testing began in mid-April. First positive bird (Fish Crow in Mercer County collected 8 July) has been reported. To date, 83 birds have been tested, with 11 positives. Species includes: American Crow (*Corvus brachyrhynchos* 2/2) Fish Crow (*Corvus ossifragus* 7/25), Blue Jay (*Cyanocitta cristata* 0/8), Hawk/Raptor (1/5), unidentified corvid (0/3) and other avian species (1/40). Counties (positives) submitting birds are Atlantic, Bergen, Burlington, Cape May, Cumberland, Essex, Hunterdon, Mercer, Middlesex, Monmouth, Morris, Ocean, Passaic, Salem, Sussex, Union and Warren.
## WNV Results by County through 18 August 2014

<table>
<thead>
<tr>
<th>County</th>
<th>Species</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlantic</td>
<td>Aedes albopictus</td>
<td>12</td>
<td>68</td>
<td>10</td>
<td>4.252</td>
</tr>
<tr>
<td></td>
<td>Aedes canadensis canadensis</td>
<td>3</td>
<td>26</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aedes cantator</td>
<td>2</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aedes japonicus</td>
<td>2</td>
<td>16</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aedes sollicitans</td>
<td>1</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aedes sticticus</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aedes taeniorhynchus</td>
<td>4</td>
<td>196</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Aedes vexans</td>
<td>4</td>
<td>24</td>
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<td></td>
</tr>
<tr>
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<td>Anopheles bradleyi</td>
<td>1</td>
<td>2</td>
<td></td>
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<tr>
<td></td>
<td>Anopheles punctipennis</td>
<td>2</td>
<td>4</td>
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<tr>
<td></td>
<td>Coquillettidia perturbans</td>
<td>4</td>
<td>23</td>
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<tr>
<td></td>
<td>Culex spp.</td>
<td>38</td>
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<tr>
<td></td>
<td>Culiseta melanura</td>
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<td>Psorophora ferox</td>
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<td>36</td>
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<tr>
<td>Bergen</td>
<td>Culex spp.</td>
<td>120</td>
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<td>45</td>
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</tr>
<tr>
<td>Burlington</td>
<td>Aedes albopictus</td>
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<td>165</td>
<td>7</td>
<td>0.973</td>
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<td>Aedes mitchellae</td>
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<tr>
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<td>Anopheles punctipennis</td>
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<td>Coquillettidia perturbans</td>
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<tr>
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<td>Culex erraticus</td>
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<tr>
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<td>146</td>
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<tr>
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<td>78</td>
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<td>3846</td>
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Saint Louis Encephalitis (SLE) to 18 August 2014.

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 been detected positive for SLE in 2014.

<table>
<thead>
<tr>
<th>County</th>
<th>Species</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burlington</td>
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<tr>
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La Crosse Encephalitis (LAC) through 18 August 2014.

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 have been detected positive for LAC in 2014.
### Dengue (DENV) to 18 August 2014.

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 18 imported human cases in New Jersey, no local transmission.

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

No pools have been detected positive for DENV in 2014.

<table>
<thead>
<tr>
<th>County</th>
<th>Species</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
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</thead>
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<td><em>Aedes japonicus</em></td>
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<td></td>
<td><em>Aedes triseriatus</em></td>
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<tr>
<td>Cape May</td>
<td><em>Aedes triseriatus</em></td>
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<td>47</td>
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</tr>
<tr>
<td></td>
<td><em>Culex pipiens</em></td>
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<td>Salem</td>
<td><em>Aedes triseriatus</em></td>
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<table>
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<th>County</th>
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<th>DENV1 Mos.</th>
<th>DENV2 Pool</th>
<th>DENV2 Mos.</th>
<th>DENV3 Pool</th>
<th>DENV3 Mos.</th>
<th>DENV4 Pool</th>
<th>DENV4 Mos.</th>
<th>Positives</th>
<th>MFIR</th>
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</table>
Chikungunya (CHIK) to 18 August 2014.

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. There are currently 51 imported human cases in New Jersey, no local transmission.

No pools have been detected positive for CHIK in 2014.
<table>
<thead>
<tr>
<th>Location</th>
<th>Aedes albopictus</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Monmouth</td>
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</tr>
<tr>
<td>Passaic</td>
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<tr>
<td>Salem</td>
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