NOTE: County/species tables for arboviruses are now in a supplemental file here

**Arbovirus Summary**

- Note: Data downloads times are noted and do not necessarily reflect all pools submitted and analyzed to that point in time. This report may vary from other reports from the same dataset as they are all snapshots in time.

- One pool of *Culex Mix* tested positive for EEE virus in Morris County, collected 17 August. No pools of *Culiseta melanura* have tested positive. No horse or human cases have been reported.

- 544 pools have tested positive for WN virus, the first in *Aedes cantator*, collected in Burlington County on 2 June. Also positive were pools of *Culex Mix*, *Culex pipiens*, *Culex restuans*, *Culex erraticus*, *Aedes albopictus*, *Ae. canadensis canadensis*, *Aedes cantator*, *Ae. japonicus*, *Ae. triseriatus*, *Ae. vexans*, *Anopheles punctipennis*, and *An. quadrimaculatus*. 11 humans have been reported with WNV infection, in Bergen (3), Camden, Middlesex, Monmouth (2), Morris, Ocean (2) and Union counties. One Cooper's Hawk (*Accipiter cooperii*) and four Red-tailed Hawks (*Buteo jamaicensis*) tested positive for WN. No horse cases have been reported.

- No pools tested for SLE, LAC, DENG, CHIK, or ZIKA virus have been detected positive in any species submitted to date.

- 3 pools have tested positive for JC virus, the latest in *Anopheles punctipennis*, collected 18 Aug in Sussex County. The first two were both in *Aedes cantator*, collected in Bergen County at the same location, first collected on 3 June.

- In 2021, there were 35 positive EEE pools in *Culiseta melanura*, *Culex erraticus*, *Ae. taeniorhynchus*, and *Ae. triseriatus*. There were 3 horse case reported. There were no human cases reported.

- There were 997 positive WNV pools, in *Culex Mix*, *Culex pipiens*, *Culex restuans*, *Culex*, *erraticus*, *Culiseta melanura*, *Aedes albopictus*, *Aedes japonicus*, *Ae. taeniorhynchus*, *Ae. triseriatus*, *Ae. trivittatus*, *Ae. vexans*, *Anopheles bradleyi*, *An. punctipennis*, *An. quadrimaculatus*, *Coquillettidia perturbans*, *Psorophora ciliate*, and *Ps. ferox*. There were 36 human cases with 5 fatalities, plus 13 positive birds. There were no horse cases.

- There were 8 positive JVC pools in *Aedes albopictus*, *Ae. vexans*, *Anopheles punctipennis* and *Culex Mix*. There were 2 human cases reported.
### 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>0.58</td>
<td>0.00</td>
<td>1</td>
<td>1</td>
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</tr>
<tr>
<td>Green Bank (Burlington Co.)/25</td>
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<td>1.82</td>
<td>0.08</td>
<td>17</td>
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<tr>
<td>Corbin City (Atlantic Co.)/25</td>
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<td>1.07</td>
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<td>169</td>
<td>19</td>
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<td></td>
</tr>
<tr>
<td>Dennisville (Cape May Co.)/50</td>
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<td>0.00</td>
<td>27</td>
<td>7</td>
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<tr>
<td>Winslow (Camden Co.)/50</td>
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<td>0.06</td>
<td>224</td>
<td>14</td>
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<tr>
<td>Centerton (Salem Co.)/50</td>
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<td>0.06</td>
<td>43 (44)</td>
<td>12 (13)</td>
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<tr>
<td>Turkey Swamp (Monmouth Co.)/50</td>
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<td>23</td>
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<tr>
<td>Glassboro (Gloucester Co.)/50</td>
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<td>0.41</td>
<td>0.02</td>
<td>33 (36)</td>
<td>13 (14)</td>
<td></td>
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</table>

*Current week (in parentheses) results pending. ‡ Corrected from previous week. PW = Previous week na = not available ND = No Data NR = Not Recorded

**Remarks:** Currently, there is one positive EEE pools detected in a pool of *Culex Mix*, caught 17 August in Morris County, in northern NJ. EEE is thought to be refractory in *Culex pipiens*. Minimally, this positive pool can indicate virus circulating, but from this species, would not likely be involved in transmission. No pools of *Culiseta melanura* have been found positive.

**Statewide:** 2106 *Cs. melanura* from 293 pools have been submitted for testing, with no positive pools detected and an overall *Cs. melanura* MFIR of 0.000. 152,796 specimens in 5792 pools from 36 other species have also been tested with one positive pool in *Culex Mix* detected. Overall MFIR for all species statewide is 0.006.

**Traditional Resting Box Sites:** 658 *Cs. melanura* from 96 pools have been collected at the traditional resting box sites with no positive pools detected and 2 pools of 4 total mosquitoes pending. Overall *Cs. melanura* MFIR at the traditional resting box site is 0.00.
Additional *Cs. melanura* trapped by counties
*traps with positives indicated in **BOLD UNDERLINED.**

<table>
<thead>
<tr>
<th>County</th>
<th>Trap types*</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
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<tbody>
<tr>
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<tr>
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<td>RB</td>
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<td>169</td>
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<td>GRA, RB</td>
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<td>20</td>
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<tr>
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<tr>
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<td>RB</td>
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<td>ASP, CO2, GRA, RB</td>
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<td>CO2</td>
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<td>TOTAL</td>
<td></td>
<td>197</td>
<td>1448</td>
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</table>

**Graph to the right** indicate start times to detection of EEE in *Culiseta melanura* and associated number of horse cases from 1998 to 2021. Early detections are associated with multiple horse cases.

**Horses and Humans:** In 2021, 3 horses were reported with EEE. Currently, no horse or humans have been reported. For more information, see DOH Vectorborne Surveillance reports:

**Horses and Vaccinations:** *Horse owners are urged to make sure their horses are up to date on their vaccinations (see link below). EEE horse cases are known to occur through October and sometimes into November.* Other sensitive species are non-native birds, such as Ostriches/Emus and Gallinaceous birds such as pheasants of Eurasian origins. 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
Additional Species: 36 additional species were tested for EEE. No positive pools were detected. In 2021, the first positive non-*melanura* pool was detected in a pool of *Culex erraticus* in Atlantic County on 5 Aug.

<table>
<thead>
<tr>
<th>Species other than Cs. melanura</th>
<th>Pools</th>
<th>Mosquitoes</th>
<th>Positives</th>
<th>MFIR</th>
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<td>Aedes atlanticus</td>
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<td>Aedes atropalpus</td>
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<td>Aedes aurifer</td>
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<td>Aedes sollicitans</td>
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<td>Aedes sticticus</td>
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<tr>
<td>Aedes stimulans</td>
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<td>Aedes taeniorhynchus</td>
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<td>1749</td>
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<tr>
<td>Aedes triseriatus</td>
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<td>244</td>
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<td></td>
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<tr>
<td>Aedes trivittatus</td>
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<td>68</td>
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<tr>
<td>Aedes vexans</td>
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<td>3444</td>
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<tr>
<td>Anopheles spp.</td>
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<tr>
<td>Anopheles barberi</td>
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</tr>
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<td>Anopheles bradleyi</td>
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<td>525</td>
<td></td>
<td></td>
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<tr>
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<td>52</td>
<td></td>
<td></td>
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<tr>
<td>Anopheles punctipennis</td>
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<td>2255</td>
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<td></td>
</tr>
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<td>Anopheles quadrimaculatus</td>
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<td>1116</td>
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<td>Coquillettidia perturbans</td>
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<td>3932</td>
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<td></td>
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<tr>
<td>Culex erraticus</td>
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<td>3501</td>
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</tr>
<tr>
<td>Culex Mix</td>
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<td>Culex pipiens</td>
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<tr>
<td>Culex salinarius</td>
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<td>636</td>
<td></td>
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<tr>
<td>Culex territans</td>
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<tr>
<td>Culiseta inornata</td>
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<td>17</td>
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<tr>
<td>Culiseta morsitans</td>
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<td>2</td>
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<tr>
<td>Orthopodomyia signifera</td>
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<td>2</td>
<td></td>
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<tr>
<td>Psorophora ciliata</td>
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<td>9</td>
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<td>Psorophora columbiae</td>
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<td>43</td>
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<td>265</td>
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<tr>
<td>Uranotaenia sapphirina</td>
<td>3</td>
<td>30</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

State Total                  5792  152796  1  0.007
Cs. melanura populations continue to remain below historic levels at the traditional resting box sites, although populations on the eastern side of the state show slight population increases (typically, western populations first show higher abundances, followed by eastern populations later in the season). Currently, one positive EEE pool have been detected at a Morris County (northern part of the state) in a pool of *Culex pipiens* (refractory for the EEE virus). No *Culiseta melanura* pools have been detected positive for EEE.

= Positive pool(s) detected (red = melanura, purple = other species).
### EEE in US (2022 cumulative cases): (Black or Red = previous + new reported cases occurring)

- **equine:** 11(FL) 1(MI)
- **mosquito pools:** 1(NJ) 1(RI)
- **sentinel:** 57(FL)
- **human:**

### West Nile Virus Positive Organisms in US, 2022

West Nile in US (2022 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](#).

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

<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>
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<td>1 (MI)</td>
<td>11/119</td>
<td>6/8</td>
<td>54/69</td>
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<td>141/153</td>
<td>2665/2817</td>
<td>111/119</td>
<td>69/135</td>
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<td>3/3</td>
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<td>1/2</td>
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<td>65/65</td>
<td>5/5</td>
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</table>

<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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<tbody>
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* Can include other species (e.g., dogs, cows) reported positive.
Mosquito Species Submitted and Tested for West Nile Virus through 23 September 2022

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<th>Species</th>
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<td><strong>Grand Total</strong></td>
<td><strong>6212</strong></td>
<td><strong>155935</strong></td>
<td><strong>544</strong></td>
<td><strong>3.489</strong></td>
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</table>

Remarks: To date 6212 pools of 155,935 mosquitoes from 36 species have been tested, with 544 positive pools of WNV detected. First positive pool was detected in *Aedes cantator*, collected 2 June in Burlington County at a traditional resting box site. Positive species include *Culex Mix, Culex pipiens, Cx. erraticus, Cx. Restuans, Aedes albopictus, Ae. canadensis*
canadensis, Ae. cantator, Ae. japonicus, Ae. triseriatus, Ae. vexans, Anopheles punctipennis, and An. quadriraculatus. Cumulative MFIR for all mosquitoes in New Jersey is 3.489, up from last week’s value of 3.403.

Humans, Horses and Wild Birds: 11 human cases of WNV have been detected in Bergen (3), Camden, Middlesex, Monmouth (2), Morris, Ocean (2) and Union counties. Last year, no horses have been reported infected but 36 human cases were detected. See DOH reports on arbovirus activity for further information: https://www.nj.gov/health/cd/statistics/arboviral-stats/index.shtml

Although birds are no longer routinely tested in New Jersey, last year 13 corvids and birds of prey were reported positive for WNV. This year, WNV was first detected in a Red-tailed Hawk (Buteo jamaicensis) from Somerset County. Infections also include one Cooper’s Hawk (Accipter cooperi) and three Red-tailed Hawks (Buteo jamaicensis), all adult males from a raptor rehabilitation center (Essex, Morris, and Somerset county origins).

Above is a graph showing cumulative number of positive pools for the previous 10 years, inclusive of the most active (2018) year. 2022 is represented in RED (first positive collected 2 June).

Go here for the table supplement of arbovirus by county by mosquito species.