

**VECTOR SURVEILLANCE IN NEW JERSEY**  
**EEE and WNV**  
CDC WEEK 40: September 28 to October 04, 2008

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*Culiseta melanura* and Eastern Equine Encephalitis

| SITE                                  | Inland / Coastal | Historic Mean | Current Weekly Mean | Total Collected to Date* | Total Pools Submitted | EEE Isolations | MFIR |
|---------------------------------------|------------------|---------------|---------------------|--------------------------|-----------------------|----------------|------|
| <b>Green Bank</b> (Burlington County) | Coastal          | 2.5           | 0.5                 | 205                      | 38                    |                |      |
| <b>Corbin City</b> (Atlantic County)  | Coastal          | 0.8           | < 0.1               | 160                      | 54                    |                |      |
| <b>Dennisville</b> (Cape May County)  | Coastal          | 2.3           | 0.5                 | 548                      | 57                    | (see remarks)  |      |
| <b>Waterford</b> (Camden County)      | Inland           | 1.2           | 0.2                 | 51                       | 7                     | 2              | 39.2 |
| <b>Centerton</b> (Salem County)       | Inland           | 1.8           | 1.5                 | 419                      | 52                    | 1              | 2.39 |
| <b>Turkey Swamp</b> (Monmouth County) | Inland           | 0.3           | < 0.1               | 267                      | 55                    |                |      |
| <b>Glassboro</b> (Gloucester County)  | Inland           | no history    | 0.2                 | 69                       | 28                    |                |      |

\*Including trial run last week in May.

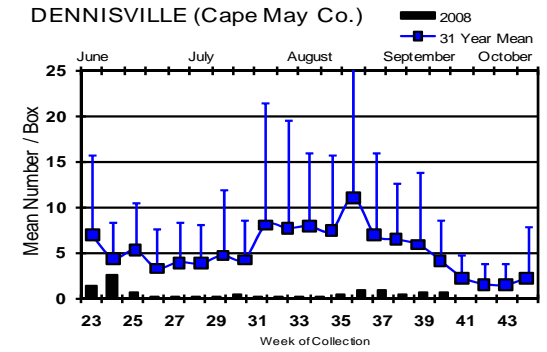
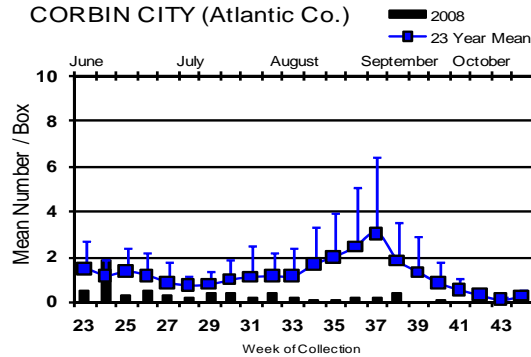
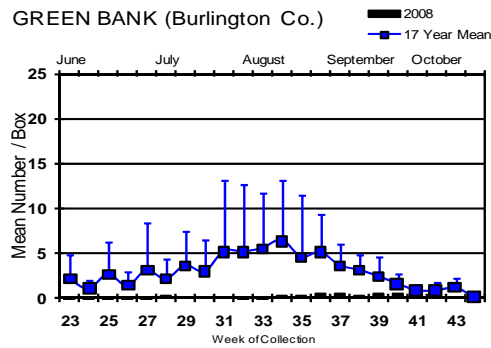
**Remarks:** Since last week's detection of two more EEE positive pools, no additional positive pools have been found. Historical populations of *Cs. melanura* have generally been on the decline at this point in the season. Overwintering larvae are in the crypts with older instars forming the first emergence of the spring. There is little indication of transovarial transmission of EEE directly from one generation of mosquitoes to the next (i.e., next year's amount of virus is not directly related by the degree that the previous generation is infected when virus is more likely being transmitted to mosquitoes by a long-lived avian host).

To date, 291 pools from 1719 *Cs. melanura* mosquitoes have been sent for EEE testing from the resting box collections. Previously, an additional EEE positive pool from Cape May had been detected by the Cape May Mosquito Control Department's lab, giving a statewide cumulative total of 4 positive EEE pools. No horse or human cases have been reported to date.

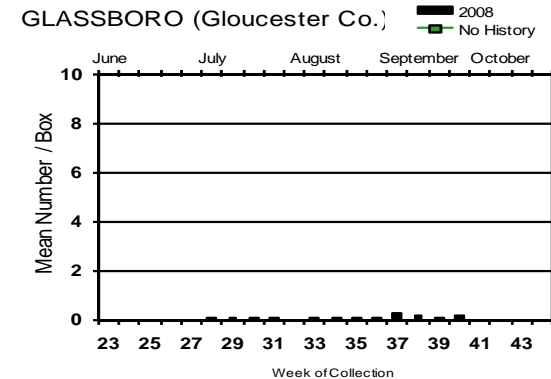
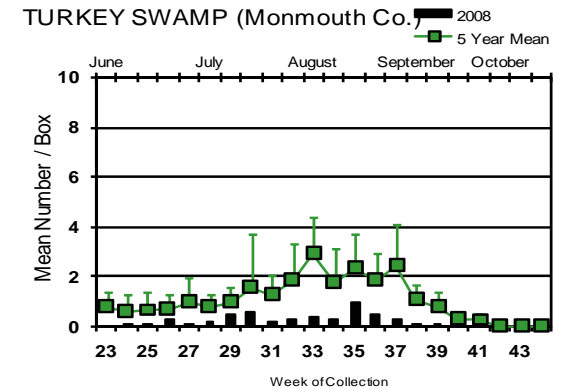
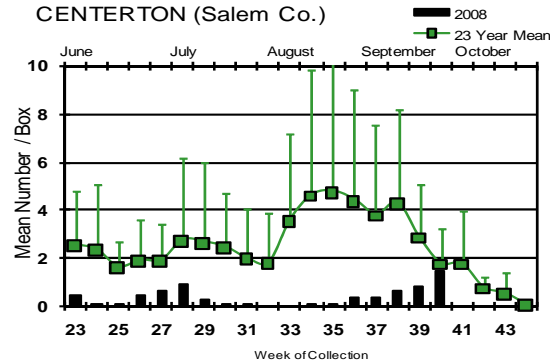
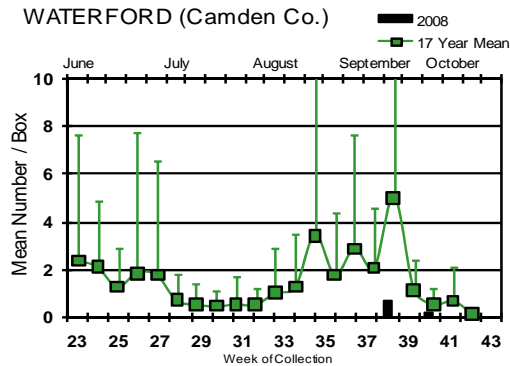
An additional 481 pools of 4176 individual mosquitoes from 31 species other than *Cs. melanura* have also been tested and all pools were found to be negative. These species include: *Aedes albopictus*, *Ae. canadensis canadensis*, *Ae. cantator*, *Ae. cinereus*, *Ae. communis*, *Ae. grossbecki*, *Ae. japonicus*, *Ae. sollicitans*, *Ae. sticticus*, *Ae. taeniorhynchus*, *Ae. triseriatus*, *Ae. trivittatus*, *Ae. vexans*, *Anopheles bradleyi*, *An. crucians*, *An. punctipennis*, *An. quadrimaculatus*, *Coquillettidia perturbans*, *Culex erraticus*, *Cx. pipiens*, *Cx. restuans*, *Cx.*, *salinarius*, *Mixed Culex*, *Cx. territans*, *Culiseta inornata*, *Orthopodomyia signifera*, *Psorophora ciliata*, *Ps. columbiae*, *Ps. cyanescens*, *Ps.*, *ferox*, *Ps. howardii* and *Uranotaenia sapphirina*.

# Culiseta melanura Population Graphs

## Coastal



## Inland



Figures: Inland and coastal resting box sites showing current weekly population levels (in bars) against historical trends (lines with standard deviation). The number of years for historical population levels varies by site.

An additional inland resting box site has been added. This site is located near Glassboro, in Gloucester County. The location is in a wildlife management area, with box location in a mixed forest swamp (Red Maple/White Pine).

*Cs. melanura* at the first positive site (Centerton) are increasing to the historical average for this week. Most of the other monitoring sites have also increased, but remain either well below historical averages or at about the same level. This has occurred at the time of seasonal decline in the historical average.

**EEE in US (2008 cumulative cases):** (Red = new reported cases occurring)

- equine: 13(AL), 84(FL) 22(GA) 4(LA) 1(MA) 1(ME) 6(MS) 10(NC) 5(SC) 1(TN) 1(WI)
- mosquito: 1(AR) 3(FL) 2(GA) 5(LA) 13(MA) 4(MD) 3(NH) 4(NJ) 4(MD) 7(VA)
- sentinel: 3(AL) 91(FL74 wild) 16[2emu](NC) emu(NH) 2(VA)
- human: 1(AL) 1(FL)

## West Nile Virus

**West Nile in US (2008 cumulative cases):** Single black values indicate no change from previous week. Black values / red values equals previous week/**New totals**.

|             | Birds  | Mosquito Pools | Sentinels | Horses | Humans  |
|-------------|--------|----------------|-----------|--------|---------|
| Alabama     |        |                |           | 1/4    | 7       |
| Alaska      |        |                |           |        |         |
| Arizona     | 3      | 157/187        | 40        |        | 49/61   |
| Arkansas    | 2      | 20             |           | 1      | 8       |
| California  | 2232   | 1765/1805      | 301/421   | 21     | 278/295 |
| Colorado    | 4      | 61             |           | 1      | 79      |
| Connecticut |        | 187            |           |        | 6/7     |
| Delaware    | 2      |                | 5/13      |        | 1       |
| DC          |        | 50             |           |        |         |
| Florida     | 3 live |                | 9         | 1      | 3       |
| Georgia     | 2      | 8/25           |           |        | 2       |
| Hawaii      |        |                |           |        |         |
| Idaho       | 3      | 7 counties     |           | 1      | 34      |
| Illinois    | 30     | 586            |           | 1      | 13      |
| Indiana     | 5      | 154/174        |           |        | 3       |
| Iowa        | 3      | 5              | 3         | 4/5    | 8       |
| Kansas      |        |                |           |        | 12/16   |
| Kentucky    | 2      | 11             |           | 3      | 1       |
| Louisiana   |        | 600            | 9         | 1      | 7       |
| Maine       |        |                |           |        |         |
| Maryland    |        | 5              |           | 1      | 9       |
| Mass.       | 63     | 131            |           |        |         |
| Michigan    | 3/8    | 1              |           | 1?     | 7       |
| Minnesota   | 7      | 22             |           |        | 20      |
| Mississippi |        | 3              |           | 3      | 96      |
| Missouri    | 29     | 193/215        |           | 1      | 9       |
| Montana     |        | 5              |           | 6      | 5       |
| Nebraska    | 10     | 79             |           | 2      | 37/40   |

|                | Birds | Mosquito Pools | Sentinels | Horses | Humans |
|----------------|-------|----------------|-----------|--------|--------|
| Nevada         | 4     | 38             |           | 2      | 15     |
| New Hampshire  |       | 1              |           |        |        |
| New Jersey     | 47/48 | 568/584        |           |        | 3/5    |
| New Mexico     |       | 3              |           | 1      | 5/7    |
| New York       | 136   | 348            |           | 2      | 32     |
| North Carolina |       |                |           | 1      | 1      |
| North Dakota   |       |                |           | 1      | 42     |
| Ohio           | 9/11  | 337/355        |           |        | 10/16  |
| Oklahoma       |       | 15             |           |        | 8      |
| Oregon         | 1/2   | 18             |           |        | 16     |
| Pennsylvania   | 14    | 508/514        |           | 1      | 5      |
| Rhode Island   |       | 10             |           |        |        |
| South Carolina | 3     | 7              |           |        |        |
| South Dakota   | 1     | 38/39          |           | 3/4    | 35/36  |
| Tennessee      |       | 592/608        |           |        | 8      |
| Texas          | 2     | 111            |           | 2      | 51     |
| Utah           | 2     | 140            | 16        | 7      | 26     |
| Vermont        |       | 1              |           |        |        |
| Virginia       |       | 667            | 1         |        | 1      |
| Washington     | 10/19 | 41             |           | 35/37  | 2      |
| West Virginia  | 2     | 36             |           | 2      | 1      |
| Wisconsin      | 34/38 |                |           | 4/5    | 5/6    |
| Wyoming        | 5     | 14             |           | 1      | 7/8    |

Note: Some data reported by states are provisional and are subject to change. Sources for this table can be found [here](#).

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

### Mosquito Species Submitted for West Nile Virus Testing through 06 October 2008

| Species                            | Pools | Mosquitoes | Positives | MFIR |
|------------------------------------|-------|------------|-----------|------|
| <i>Aedes abserratus</i>            | 1     | 9          |           |      |
| <i>Aedes albopictus</i>            | 966   | 8858       | 2         | 0.23 |
| <i>Aedes atlanticus</i>            | 1     | 4          |           |      |
| <i>Aedes atropalpus</i>            | 1     | 1          |           |      |
| <i>Aedes canadensis canadensis</i> | 58    | 1256       |           |      |
| <i>Aedes cantator</i>              | 27    | 362        |           |      |
| <i>Aedes cinereus</i>              | 3     | 5          |           |      |
| <i>Aedes communis</i>              | 1     | 1          |           |      |
| <i>Aedes grossbecki</i>            | 3     | 4          |           |      |
| <i>Aedes japonicus</i>             | 441   | 1956       | 1         | 0.51 |
| <i>Aedes sollicitans</i>           | 48    | 862        |           |      |
| <i>Aedes sticticus</i>             | 7     | 87         |           |      |

|                                  |             |               |            |             |
|----------------------------------|-------------|---------------|------------|-------------|
| <i>Aedes stimulans</i>           | 1           | 1             |            |             |
| <i>Aedes taeniorhynchus</i>      | 30          | 593           |            |             |
| <i>Aedes thibaulti</i>           | 5           | 13            |            |             |
| <i>Aedes triseriatus</i>         | 212         | 626           |            |             |
| <i>Aedes trivittatus</i>         | 15          | 117           |            |             |
| <i>Aedes vexans</i>              | 244         | 3300          |            |             |
| <i>Anopheles atropos</i>         | 1           | 1             |            |             |
| <i>Anopheles barberi</i>         | 3           | 3             |            |             |
| <i>Anopheles bradleyi</i>        | 64          | 985           |            |             |
| <i>Anopheles crucians</i>        | 10          | 34            |            |             |
| <i>Anopheles earlei</i>          | 1           | 1             |            |             |
| <i>Anopheles punctipennis</i>    | 157         | 894           |            |             |
| <i>Anopheles quadrimaculatus</i> | 158         | 1974          |            |             |
| <i>Coquillettidia perturbans</i> | 103         | 934           |            |             |
| <i>Culex erraticus</i>           | 133         | 959           |            |             |
| <i>Culex pipiens</i>             | 873         | 19527         | 112        | 5.74        |
| <i>Culex restuans</i>            | 414         | 4623          | 6          | 1.30        |
| <i>Culex salinarius</i>          | 240         | 9237          | 2          | 0.22        |
| <i>Culex spp.</i>                | 2737        | 100751        | 461        | 4.58        |
| <i>Culex territans</i>           | 73          | 307           |            |             |
| <i>Culiseta inornata</i>         | 3           | 5             |            |             |
| <i>Culiseta melanura</i>         | 378         | 2189          |            |             |
| <i>Orthopodomyia signifera</i>   | 11          | 20            |            |             |
| <i>Psorophora ciliata</i>        | 9           | 54            |            |             |
| <i>Psorophora columbiae</i>      | 30          | 196           |            |             |
| <i>Psorophora cyanescens</i>     | 1           | 1             |            |             |
| <i>Psorophora ferox</i>          | 30          | 139           |            |             |
| <i>Psorophora howardii</i>       | 4           | 11            |            |             |
| <i>Uranotaenia sapphirina</i>    | 22          | 109           |            |             |
| <b>State Total</b>               | <b>7519</b> | <b>161009</b> | <b>584</b> | <b>3.63</b> |

**Remarks:** Submitted pools (7,519) comprised of 161,009 individual mosquitoes produced 584 positive pools from 19 different counties.

**Humans, Horses and Wild Birds:** Previously reported: a 58 year old female (onset 26 Aug) from Burlington County, bringing the total to 3 (2 cases in Burlington County and 1 in Middlesex County). PHEL reported two more cases, one including last week's probable in Camden (53 year old male) and the second occurring in Union County (38 year old male, onset early August). For more details, see the PHEL's summary sheet:

[http://www.state.nj.us/health/cd/westnile/documents/wnv\\_summary\\_oct03\\_08.pdf](http://www.state.nj.us/health/cd/westnile/documents/wnv_summary_oct03_08.pdf)

No confirmed horse cases have occurred.

To date, there have been 157 dead birds submitted for West Nile virus testing with 49 positives. Last year, there were 41 positive birds from 178 submissions to this point in time.

| 2008 Positive Mosquito pools to date / Total Mosquito Pools Submitted | This time last year |
|---|---------------------|
| 584 / 7,519   | 342 / 6,443         |

#### WNV Results by County through 06 October 2008

| County   | Species                            | Pools | Mosquitoes | Positives | MFIR |
|----------|------------------------------------|-------|------------|-----------|------|
| Atlantic |                                    | 310   | 5974       | 9         | 1.51 |
|          | <i>Aedes albopictus</i>            | 35    | 746        |           |      |
|          | <i>Aedes canadensis canadensis</i> | 3     | 12         |           |      |

|                                    |            |              |            |             |
|------------------------------------|------------|--------------|------------|-------------|
| <i>Aedes cantator</i>              | 3          | 18           |            |             |
| <i>Aedes japonicus</i>             | 6          | 7            |            |             |
| <i>Aedes sollicitans</i>           | 12         | 350          |            |             |
| <i>Aedes taeniorhynchus</i>        | 20         | 479          |            |             |
| <i>Aedes thibaulti</i>             | 4          | 8            |            |             |
| <i>Aedes triseriatus</i>           | 8          | 19           |            |             |
| <i>Aedes vexans</i>                | 17         | 311          |            |             |
| <i>Anopheles atropos</i>           | 1          | 1            |            |             |
| <i>Anopheles bradleyi</i>          | 9          | 35           |            |             |
| <i>Anopheles crucians</i>          | 2          | 24           |            |             |
| <i>Anopheles punctipennis</i>      | 7          | 13           |            |             |
| <i>Anopheles quadrimaculatus</i>   | 2          | 4            |            |             |
| <i>Coquillettidia perturbans</i>   | 6          | 44           |            |             |
| <i>Culex erraticus</i>             | 10         | 133          |            |             |
| <i>Culex pipiens</i>               | 1          | 17           |            |             |
| <i>Culex restuans</i>              | 12         | 357          | 1          | 2.80        |
| <i>Culex salinarius</i>            | 3          | 3            |            |             |
| <i>Culex sp.</i>                   | 76         | 3188         | 8          | 2.51        |
| <i>Culex territans</i>             | 9          | 22           |            |             |
| <i>Culiseta melanura</i>           | 58         | 166          |            |             |
| <i>Orthopodomyia signifera</i>     | 2          | 2            |            |             |
| <i>Psorophora columbiae</i>        | 1          | 1            |            |             |
| <i>Psorophora ferox</i>            | 3          | 14           |            |             |
| <b>Bergen</b>                      | <b>612</b> | <b>29317</b> | <b>148</b> | <b>5.05</b> |
| <i>Aedes albopictus</i>            | 24         | 119          |            |             |
| <i>Aedes canadensis canadensis</i> | 1          | 6            |            |             |
| <i>Aedes japonicus</i>             | 31         | 162          |            |             |
| <i>Aedes sollicitans</i>           | 1          | 1            |            |             |
| <i>Aedes triseriatus</i>           | 13         | 42           |            |             |
| <i>Aedes vexans</i>                | 17         | 90           |            |             |
| <i>Anopheles barberi</i>           | 1          | 1            |            |             |
| <i>Anopheles bradleyi</i>          | 5          | 8            |            |             |
| <i>Anopheles punctipennis</i>      | 6          | 35           |            |             |
| <i>Coquillettidia perturbans</i>   | 27         | 185          |            |             |
| <i>Culex pipiens</i>               | 97         | 3532         | 15         | 4.25        |
| <i>Culex restuans</i>              | 32         | 321          |            |             |
| <i>Culex salinarius</i>            | 121        | 7583         | 1          | 0.13        |
| <i>Culex spp.</i>                  | 234        | 17230        | 132        | 7.66        |
| <i>Culex territans</i>             | 1          | 1            |            |             |
| <i>Orthopodomyia signifera</i>     | 1          | 1            |            |             |
| <b>Burlington</b>                  | <b>486</b> | <b>3773</b>  | <b>5</b>   | <b>1.33</b> |
| <i>Aedes albopictus</i>            | 52         | 543          |            |             |
| <i>Aedes canadensis canadensis</i> | 22         | 608          |            |             |
| <i>Aedes cantator</i>              | 4          | 148          |            |             |
| <i>Aedes cinereus</i>              | 1          | 3            |            |             |
| <i>Aedes grossbecki</i>            | 1          | 1            |            |             |
| <i>Aedes japonicus</i>             | 22         | 67           |            |             |
| <i>Aedes sollicitans</i>           | 2          | 22           |            |             |
| <i>Aedes sticticus</i>             | 2          | 5            |            |             |
| <i>Aedes taeniorhynchus</i>        | 2          | 9            |            |             |
| <i>Aedes triseriatus</i>           | 17         | 44           |            |             |
| <i>Aedes trivittatus</i>           | 1          | 2            |            |             |
| <i>Aedes vexans</i>                | 55         | 505          |            |             |
| <i>Anopheles bradleyi</i>          | 3          | 15           |            |             |

|                                    |            |             |           |             |
|------------------------------------|------------|-------------|-----------|-------------|
| <i>Anopheles crucians</i>          | 8          | 10          |           |             |
| <i>Anopheles punctipennis</i>      | 21         | 55          |           |             |
| <i>Anopheles quadrimaculatus</i>   | 18         | 31          |           |             |
| <i>Coquillettidia perturbans</i>   | 22         | 237         |           |             |
| <i>Culex erraticus</i>             | 12         | 36          |           |             |
| <i>Culex pipiens</i>               | 18         | 178         | 3         | 16.85       |
| <i>Culex restuans</i>              | 16         | 98          | 1         | 10.20       |
| <i>Culex salinarius</i>            | 6          | 6           |           |             |
| <i>Culex sp.</i>                   | 72         | 711         | 1         | 1.41        |
| <i>Culex territans</i>             | 12         | 23          |           |             |
| <i>Culiseta inornata</i>           | 1          | 3           |           |             |
| <i>Culiseta melanura</i>           | 62         | 336         |           |             |
| <i>Orthopodomyia signifera</i>     | 3          | 11          |           |             |
| <i>Psorophora ciliata</i>          | 6          | 10          |           |             |
| <i>Psorophora columbiae</i>        | 11         | 36          |           |             |
| <i>Psorophora cyanescens</i>       | 1          | 1           |           |             |
| <i>Psorophora ferox</i>            | 4          | 5           |           |             |
| <i>Psorophora howardii</i>         | 1          | 3           |           |             |
| <i>Uranotaenia sapphirina</i>      | 8          | 11          |           |             |
| <b>Camden</b>                      | <b>205</b> | <b>3674</b> | <b>16</b> | <b>4.35</b> |
| <i>Aedes albopictus</i>            | 42         | 300         |           |             |
| <i>Aedes canadensis canadensis</i> | 1          | 19          |           |             |
| <i>Aedes cantator</i>              | 1          | 22          |           |             |
| <i>Aedes japonicus</i>             | 15         | 32          |           |             |
| <i>Aedes triseriatus</i>           | 2          | 2           |           |             |
| <i>Aedes trivittatus</i>           | 1          | 1           |           |             |
| <i>Aedes vexans</i>                | 7          | 144         |           |             |
| <i>Anopheles punctipennis</i>      | 7          | 31          |           |             |
| <i>Anopheles quadrimaculatus</i>   | 7          | 12          |           |             |
| <i>Coquillettidia perturbans</i>   | 4          | 16          |           |             |
| <i>Culex erraticus</i>             | 2          | 8           |           |             |
| <i>Culex pipiens</i>               | 13         | 530         |           |             |
| <i>Culex restuans</i>              | 21         | 522         |           |             |
| <i>Culex salinarius</i>            | 4          | 15          |           |             |
| <i>Culex sp.</i>                   | 65         | 1963        | 16        | 8.15        |
| <i>Culiseta inornata</i>           | 1          | 1           |           |             |
| <i>Culiseta melanura</i>           | 9          | 52          |           |             |
| <i>Orthopodomyia signifera</i>     | 2          | 3           |           |             |
| <i>Psorophora columbiae</i>        | 1          | 1           |           |             |
| <b>Cape_May</b>                    | <b>612</b> | <b>7836</b> | <b>2</b>  | <b>0.26</b> |
| <i>Aedes albopictus</i>            | 32         | 84          |           |             |
| <i>Aedes canadensis canadensis</i> | 4          | 71          |           |             |
| <i>Aedes cantator</i>              | 8          | 82          |           |             |
| <i>Aedes japonicus</i>             | 14         | 24          |           |             |
| <i>Aedes sollicitans</i>           | 11         | 397         |           |             |
| <i>Aedes taeniorhynchus</i>        | 4          | 80          |           |             |
| <i>Aedes triseriatus</i>           | 2          | 4           |           |             |
| <i>Aedes vexans</i>                | 3          | 14          |           |             |
| <i>Anopheles bradleyi</i>          | 23         | 609         |           |             |
| <i>Anopheles punctipennis</i>      | 10         | 105         |           |             |
| <i>Anopheles quadrimaculatus</i>   | 25         | 659         |           |             |
| <i>Coquillettidia perturbans</i>   | 4          | 28          |           |             |
| <i>Culex erraticus</i>             | 13         | 203         |           |             |
| <i>Culex pipiens</i>               | 156        | 2201        | 1         | 0.45        |

|                   |                                    |            |              |           |             |
|-------------------|------------------------------------|------------|--------------|-----------|-------------|
|                   | <i>Culex restuans</i>              | 147        | 1539         |           |             |
|                   | <i>Culex salinarius</i>            | 12         | 426          |           |             |
|                   | <i>Culex sp.</i>                   | 67         | 694          | 1         | 1.44        |
|                   | <i>Culex territans</i>             | 7          | 21           |           |             |
|                   | <i>Culiseta melanura</i>           | 70         | 595          |           |             |
| <b>Cumberland</b> |                                    | <b>244</b> | <b>2170</b>  | <b>7</b>  | <b>3.23</b> |
|                   | <i>Aedes albopictus</i>            | 50         | 166          |           |             |
|                   | <i>Aedes japonicus</i>             | 17         | 39           |           |             |
|                   | <i>Aedes sticticus</i>             | 1          | 1            |           |             |
|                   | <i>Aedes triseriatus</i>           | 8          | 12           |           |             |
|                   | <i>Aedes vexans</i>                | 5          | 41           |           |             |
|                   | <i>Anopheles bradleyi</i>          | 2          | 2            |           |             |
|                   | <i>Anopheles punctipennis</i>      | 5          | 14           |           |             |
|                   | <i>Anopheles quadrimaculatus</i>   | 2          | 4            |           |             |
|                   | <i>Coquillettidia perturbans</i>   | 1          | 1            |           |             |
|                   | <i>Culex erraticus</i>             | 21         | 67           |           |             |
|                   | <i>Culex pipiens</i>               | 32         | 242          | 3         | 12.40       |
|                   | <i>Culex restuans</i>              | 10         | 84           | 1         | 11.90       |
|                   | <i>Culex salinarius</i>            | 3          | 3            |           |             |
|                   | <i>Culex spp.</i>                  | 74         | 1384         | 3         | 2.17        |
|                   | <i>Culex territans</i>             | 2          | 5            |           |             |
|                   | <i>Culiseta melanura</i>           | 7          | 100          |           |             |
|                   | <i>Psorophora columbiae</i>        | 1          | 2            |           |             |
|                   | <i>Psorophora ferox</i>            | 1          | 1            |           |             |
|                   | <i>Psorophora howardii</i>         | 1          | 1            |           |             |
|                   | <i>Uranotaenia sapphirina</i>      | 1          | 1            |           |             |
| <b>Essex</b>      |                                    | <b>300</b> | <b>3827</b>  | <b>34</b> | <b>8.88</b> |
|                   | <i>Aedes albopictus</i>            | 78         | 489          |           |             |
|                   | <i>Aedes japonicus</i>             | 25         | 111          | 1         | 9.01        |
|                   | <i>Aedes triseriatus</i>           | 21         | 36           |           |             |
|                   | <i>Aedes trivittatus</i>           | 1          | 1            |           |             |
|                   | <i>Aedes vexans</i>                | 11         | 39           |           |             |
|                   | <i>Anopheles punctipennis</i>      | 6          | 6            |           |             |
|                   | <i>Anopheles quadrimaculatus</i>   | 4          | 11           |           |             |
|                   | <i>Coquillettidia perturbans</i>   | 2          | 2            |           |             |
|                   | <i>Culex pipiens</i>               | 1          | 75           | 1         | 13.33       |
|                   | <i>Culex restuans</i>              | 1          | 14           |           |             |
|                   | <i>Culex spp.</i>                  | 143        | 3032         | 32        | 10.55       |
|                   | <i>Culex territans</i>             | 6          | 10           |           |             |
|                   | <i>Psorophora columbiae</i>        | 1          | 1            |           |             |
| <b>Gloucester</b> |                                    | <b>625</b> | <b>12100</b> | <b>53</b> | <b>4.38</b> |
|                   | <i>Aedes abserratus</i>            | 1          | 9            |           |             |
|                   | <i>Aedes albopictus</i>            | 63         | 470          |           |             |
|                   | <i>Aedes canadensis canadensis</i> | 7          | 245          |           |             |
|                   | <i>Aedes communis</i>              | 1          | 1            |           |             |
|                   | <i>Aedes japonicus</i>             | 32         | 136          |           |             |
|                   | <i>Aedes sollicitans</i>           | 1          | 2            |           |             |

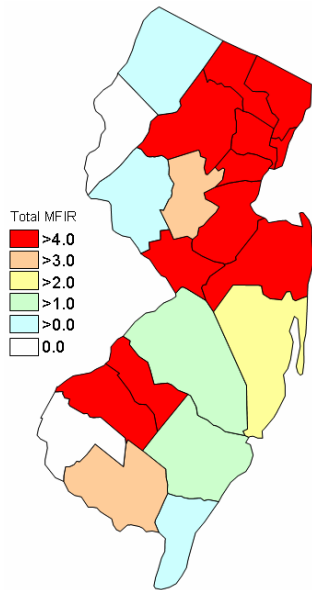
|                                  |            |              |           |             |
|----------------------------------|------------|--------------|-----------|-------------|
| <i>Aedes thibaulti</i>           | 1          | 5            |           |             |
| <i>Aedes triseriatus</i>         | 9          | 19           |           |             |
| <i>Aedes vexans</i>              | 9          | 269          |           |             |
| <i>Anopheles bradleyi</i>        | 4          | 86           |           |             |
| <i>Anopheles earlei</i>          | 1          | 1            |           |             |
| <i>Anopheles punctipennis</i>    | 23         | 81           |           |             |
| <i>Anopheles quadrimaculatus</i> | 26         | 54           |           |             |
| <i>Coquillettia perturbans</i>   | 8          | 38           |           |             |
| <i>Culex erraticus</i>           | 7          | 47           |           |             |
| <i>Culex pipiens</i>             | 341        | 9634         | 53        | 5.50        |
| <i>Culex restuans</i>            | 19         | 591          |           |             |
| <i>Culex salinarius</i>          | 6          | 34           |           |             |
| <i>Culex territans</i>           | 9          | 81           |           |             |
| <i>Culiseta melanura</i>         | 47         | 150          |           |             |
| <i>Psorophora columbiae</i>      | 4          | 113          |           |             |
| <i>Psorophora ferox</i>          | 3          | 9            |           |             |
| <i>Uranotaenia sapphirina</i>    | 3          | 25           |           |             |
| <b>Hudson</b>                    | <b>194</b> | <b>9269</b>  | <b>63</b> | <b>6.80</b> |
| <i>Culex spp.</i>                | 194        | 9269         | 63        | 6.80        |
| <b>Hunterdon</b>                 | <b>270</b> | <b>12654</b> | <b>5</b>  | <b>0.40</b> |
| <i>Aedes albopictus</i>          | 4          | 40           |           |             |
| <i>Aedes japonicus</i>           | 1          | 6            |           |             |
| <i>Aedes trivittatus</i>         | 1          | 18           |           |             |
| <i>Aedes vexans</i>              | 3          | 105          |           |             |
| <i>Anopheles punctipennis</i>    | 1          | 50           |           |             |
| <i>Anopheles quadrimaculatus</i> | 2          | 25           |           |             |
| <i>Culex erraticus</i>           | 1          | 10           |           |             |
| <i>Culex spp.</i>                | 256        | 12399        | 5         | 0.40        |
| <i>Culiseta inornata</i>         | 1          | 1            |           |             |
| <b>Mercer</b>                    | <b>498</b> | <b>5399</b>  | <b>41</b> | <b>7.59</b> |
| <i>Aedes albopictus</i>          | 212        | 2594         | 1         | 0.39        |
| <i>Aedes atropalpus</i>          | 1          | 1            |           |             |
| <i>Aedes japonicus</i>           | 62         | 108          |           |             |
| <i>Aedes stimulans</i>           | 1          | 1            |           |             |
| <i>Aedes triseriatus</i>         | 25         | 50           |           |             |
| <i>Aedes vexans</i>              | 5          | 15           |           |             |
| <i>Anopheles punctipennis</i>    | 1          | 1            |           |             |
| <i>Culex erraticus</i>           | 16         | 44           |           |             |
| <i>Culex pipiens</i>             | 96         | 1922         | 33        | 17.17       |
| <i>Culex restuans</i>            | 52         | 229          | 3         | 13.10       |
| <i>Culex salinarius</i>          | 13         | 162          |           |             |
| <i>Culex spp.</i>                | 11         | 267          | 4         | 14.98       |
| <i>Culex territans</i>           | 1          | 1            |           |             |
| <i>Orthopodomyia signifera</i>   | 1          | 1            |           |             |
| <i>Psorophora columbiae</i>      | 1          | 3            |           |             |
| <b>Middlesex</b>                 | <b>337</b> | <b>7949</b>  | <b>44</b> | <b>5.44</b> |
| <i>Aedes albopictus</i>          | 33         | 382          |           |             |
| <i>Aedes japonicus</i>           | 12         | 57           |           |             |
| <i>Aedes triseriatus</i>         | 5          | 22           |           |             |
| <i>Aedes trivittatus</i>         | 1          | 1            |           |             |
| <i>Aedes vexans</i>              | 21         | 512          |           |             |



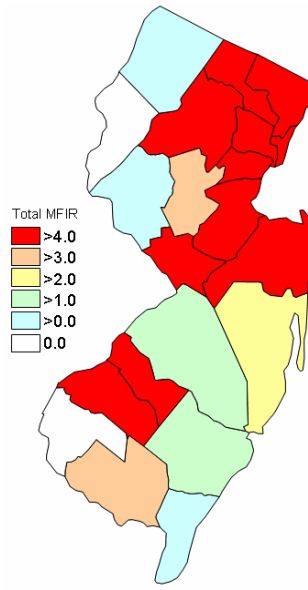
|                 |                                    |            |             |           |             |
|-----------------|------------------------------------|------------|-------------|-----------|-------------|
|                 | <i>Culex erraticus</i>             | 1          | 1           |           |             |
|                 | <i>Culex pipiens</i>               | 23         | 215         | 1         | 4.65        |
|                 | <i>Culex restuans</i>              | 11         | 137         |           |             |
|                 | <i>Culex salinarius</i>            | 14         | 324         | 1         | 3.09        |
|                 | <i>Culex spp.</i>                  | 205        | 6228        | 42        | 6.74        |
|                 | <i>Culex territans</i>             | 3          | 10          |           |             |
|                 | <i>Psorophora ciliata</i>          | 3          | 44          |           |             |
|                 | <i>Psorophora columbiae</i>        | 1          | 4           |           |             |
|                 | <i>Psorophora ferox</i>            | 1          | 1           |           |             |
|                 | <i>Psorophora howardii</i>         | 1          | 3           |           |             |
|                 | <i>Uranotaenia sapphirina</i>      | 2          | 8           |           |             |
| <b>Monmouth</b> |                                    | <b>559</b> | <b>5547</b> | <b>26</b> | <b>4.69</b> |
|                 | <i>Aedes albopictus</i>            | 101        | 643         |           |             |
|                 | <i>Aedes canadensis canadensis</i> | 3          | 18          |           |             |
|                 | <i>Aedes cantator</i>              | 4          | 5           |           |             |
|                 | <i>Aedes japonicus</i>             | 22         | 60          |           |             |
|                 | <i>Aedes sollicitans</i>           | 12         | 43          |           |             |
|                 | <i>Aedes taeniorhynchus</i>        | 4          | 25          |           |             |
|                 | <i>Aedes triseriatus</i>           | 9          | 19          |           |             |
|                 | <i>Aedes trivittatus</i>           | 3          | 4           |           |             |
|                 | <i>Aedes vexans</i>                | 27         | 125         |           |             |
|                 | <i>Anopheles barberi</i>           | 1          | 1           |           |             |
|                 | <i>Anopheles punctipennis</i>      | 17         | 31          |           |             |
|                 | <i>Anopheles quadrimaculatus</i>   | 10         | 20          |           |             |
|                 | <i>Coquillettidia perturbans</i>   | 4          | 5           |           |             |
|                 | <i>Culex erraticus</i>             | 9          | 86          |           |             |
|                 | <i>Culex pipiens</i>               | 60         | 581         | 1         | 1.72        |
|                 | <i>Culex restuans</i>              | 42         | 254         |           |             |
|                 | <i>Culex salinarius</i>            | 17         | 51          |           |             |
|                 | <i>Culex spp.</i>                  | 143        | 3200        | 25        | 7.81        |
|                 | <i>Culex territans</i>             | 13         | 104         |           |             |
|                 | <i>Culiseta melanura</i>           | 55         | 265         |           |             |
|                 | <i>Psorophora ferox</i>            | 1          | 1           |           |             |
|                 | <i>Uranotaenia sapphirina</i>      | 2          | 6           |           |             |
| <b>Morris</b>   |                                    | <b>220</b> | <b>6865</b> | <b>31</b> | <b>4.52</b> |
|                 | <i>Aedes albopictus</i>            | 1          | 3           |           |             |
|                 | <i>Aedes japonicus</i>             | 10         | 41          |           |             |
|                 | <i>Aedes triseriatus</i>           | 2          | 4           |           |             |
|                 | <i>Anopheles punctipennis</i>      | 1          | 4           |           |             |
|                 | <i>Coquillettidia perturbans</i>   | 1          | 50          |           |             |
|                 | <i>Culex spp.</i>                  | 205        | 6763        | 31        | 4.58        |
| <b>Ocean</b>    |                                    | <b>363</b> | <b>5804</b> | <b>13</b> | <b>2.24</b> |
|                 | <i>Aedes albopictus</i>            | 97         | 1376        | 1         | 0.73        |
|                 | <i>Aedes canadensis canadensis</i> | 7          | 83          |           |             |
|                 | <i>Aedes cantator</i>              | 1          | 9           |           |             |
|                 | <i>Aedes japonicus</i>             | 24         | 52          |           |             |
|                 | <i>Aedes sollicitans</i>           | 6          | 43          |           |             |
|                 | <i>Aedes triseriatus</i>           | 11         | 23          |           |             |
|                 | <i>Aedes trivittatus</i>           | 1          | 1           |           |             |
|                 | <i>Aedes vexans</i>                | 17         | 81          |           |             |
|                 | <i>Anopheles bradleyi</i>          | 2          | 2           |           |             |
|                 | <i>Anopheles punctipennis</i>      | 6          | 10          |           |             |
|                 | <i>Anopheles quadrimaculatus</i>   | 5          | 15          |           |             |

|                                    |            |             |           |             |
|------------------------------------|------------|-------------|-----------|-------------|
| <i>Coquillettidia perturbans</i>   | 5          | 16          |           |             |
| <i>Culex pipiens</i>               | 9          | 249         | 1         | 4.02        |
| <i>Culex restuans</i>              | 19         | 249         |           |             |
| <i>Culex salinarius</i>            | 14         | 94          |           |             |
| <i>Culex sp.</i>                   | 114        | 3363        | 11        | 3.27        |
| <i>Culex territans</i>             | 2          | 2           |           |             |
| <i>Culiseta melanura</i>           | 15         | 94          |           |             |
| <i>Psorophora ferox</i>            | 7          | 19          |           |             |
| <i>Uranotaenia sapphirina</i>      | 1          | 23          |           |             |
| <b>Passaic</b>                     | <b>121</b> | <b>3859</b> | <b>32</b> | <b>8.29</b> |
| <i>Aedes albopictus</i>            | 17         | 97          |           |             |
| <i>Aedes japonicus</i>             | 8          | 89          |           |             |
| <i>Aedes triseriatus</i>           | 1          | 2           |           |             |
| <i>Anopheles punctipennis</i>      | 1          | 5           |           |             |
| <i>Culex spp.</i>                  | 94         | 3666        | 32        | 8.73        |
| <b>Salem</b>                       | <b>410</b> | <b>5055</b> |           |             |
| <i>Aedes albopictus</i>            | 34         | 127         |           |             |
| <i>Aedes atlanticus</i>            | 1          | 4           |           |             |
| <i>Aedes canadensis canadensis</i> | 7          | 181         |           |             |
| <i>Aedes cantator</i>              | 6          | 78          |           |             |
| <i>Aedes grossbecki</i>            | 2          | 3           |           |             |
| <i>Aedes japonicus</i>             | 12         | 29          |           |             |
| <i>Aedes sollicitans</i>           | 1          | 1           |           |             |
| <i>Aedes sticticus</i>             | 3          | 80          |           |             |
| <i>Aedes triseriatus</i>           | 15         | 31          |           |             |
| <i>Aedes vexans</i>                | 22         | 876         |           |             |
| <i>Anopheles bradleyi</i>          | 16         | 228         |           |             |
| <i>Anopheles punctipennis</i>      | 31         | 431         |           |             |
| <i>Anopheles quadrimaculatus</i>   | 48         | 1130        |           |             |
| <i>Coquillettidia perturbans</i>   | 9          | 93          |           |             |
| <i>Culex erraticus</i>             | 41         | 324         |           |             |
| <i>Culex pipiens</i>               | 15         | 64          |           |             |
| <i>Culex restuans</i>              | 12         | 37          |           |             |
| <i>Culex salinarius</i>            | 23         | 528         |           |             |
| <i>Culex spp.</i>                  | 36         | 233         |           |             |
| <i>Culex territans</i>             | 8          | 27          |           |             |
| <i>Culiseta melanura</i>           | 55         | 431         |           |             |
| <i>Psorophora columbiae</i>        | 4          | 27          |           |             |
| <i>Psorophora ferox</i>            | 6          | 83          |           |             |
| <i>Psorophora howardii</i>         | 1          | 4           |           |             |
| <i>Uranotaenia sapphirina</i>      | 2          | 5           |           |             |
| <b>Somerset</b>                    | <b>274</b> | <b>3962</b> | <b>14</b> | <b>3.53</b> |
| <i>Aedes albopictus</i>            | 16         | 58          |           |             |
| <i>Aedes canadensis canadensis</i> | 1          | 2           |           |             |
| <i>Aedes japonicus</i>             | 43         | 308         |           |             |
| <i>Aedes triseriatus</i>           | 37         | 153         |           |             |
| <i>Aedes trivittatus</i>           | 2          | 57          |           |             |
| <i>Aedes vexans</i>                | 1          | 50          |           |             |
| <i>Anopheles barberi</i>           | 1          | 1           |           |             |
| <i>Anopheles punctipennis</i>      | 8          | 9           |           |             |
| <i>Anopheles quadrimaculatus</i>   | 7          | 7           |           |             |

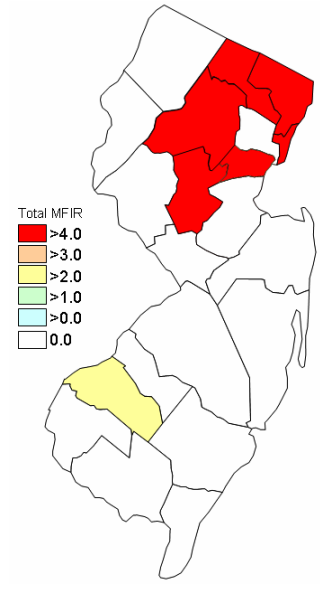
|                    |                                    |             |               |            |             |
|--------------------|------------------------------------|-------------|---------------|------------|-------------|
|                    | <i>Culex pipiens</i>               | 2           | 22            |            |             |
|                    | <i>Culex restuans</i>              | 2           | 19            |            |             |
|                    | <i>Culex spp.</i>                  | 149         | 3269          | 14         | 4.28        |
|                    | <i>Orthopodomyia signifera</i>     | 2           | 2             |            |             |
|                    | <i>Psorophora ferox</i>            | 2           | 4             |            |             |
|                    | <i>Uranotaenia sapphirina</i>      | 1           | 1             |            |             |
| <b>Sussex</b>      |                                    | <b>406</b>  | <b>11945</b>  | <b>7</b>   | <b>0.59</b> |
|                    | <i>Aedes canadensis canadensis</i> | 2           | 11            |            |             |
|                    | <i>Aedes cinereus</i>              | 2           | 2             |            |             |
|                    | <i>Aedes japonicus</i>             | 74          | 565           |            |             |
|                    | <i>Aedes sticticus</i>             | 1           | 1             |            |             |
|                    | <i>Aedes triseriatus</i>           | 24          | 141           |            |             |
|                    | <i>Aedes trivittatus</i>           | 4           | 32            |            |             |
|                    | <i>Aedes vexans</i>                | 5           | 35            |            |             |
|                    | <i>Anopheles punctipennis</i>      | 3           | 8             |            |             |
|                    | <i>Anopheles quadrimaculatus</i>   | 1           | 1             |            |             |
|                    | <i>Coquillettidia perturbans</i>   | 10          | 219           |            |             |
|                    | <i>Culex pipiens</i>               | 6           | 54            |            |             |
|                    | <i>Culex restuans</i>              | 11          | 143           |            |             |
|                    | <i>Culex salinarius</i>            | 2           | 5             |            |             |
|                    | <i>Culex spp.</i>                  | 258         | 10698         | 7          | 0.65        |
|                    | <i>Psorophora ferox</i>            | 1           | 1             |            |             |
|                    | <i>Uranotaenia sapphirina</i>      | 2           | 29            |            |             |
| <b>Union</b>       |                                    | <b>247</b>  | <b>4727</b>   | <b>34</b>  | <b>7.19</b> |
|                    | <i>Aedes albopictus</i>            | 75          | 621           |            |             |
|                    | <i>Aedes japonicus</i>             | 9           | 14            |            |             |
|                    | <i>Aedes sollicitans</i>           | 2           | 3             |            |             |
|                    | <i>Aedes triseriatus</i>           | 3           | 3             |            |             |
|                    | <i>Aedes vexans</i>                | 19          | 88            |            |             |
|                    | <i>Anopheles punctipennis</i>      | 3           | 5             |            |             |
|                    | <i>Anopheles quadrimaculatus</i>   | 1           | 1             |            |             |
|                    | <i>Culex pipiens</i>               | 3           | 11            |            |             |
|                    | <i>Culex restuans</i>              | 7           | 29            |            |             |
|                    | <i>Culex salinarius</i>            | 2           | 3             |            |             |
|                    | <i>Culex spp.</i>                  | 117         | 3940          | 34         | 8.63        |
|                    | <i>Psorophora columbiae</i>        | 5           | 8             |            |             |
|                    | <i>Psorophora ferox</i>            | 1           | 1             |            |             |
| <b>Warren</b>      |                                    | <b>226</b>  | <b>9303</b>   |            |             |
|                    | <i>Aedes japonicus</i>             | 2           | 49            |            |             |
|                    | <i>Culex spp.</i>                  | 224         | 9254          |            |             |
| <b>Grand Total</b> |                                    | <b>7519</b> | <b>161009</b> | <b>584</b> | <b>3.63</b> |



Cumulative activity to last week



Cumulative activity to this week



Recent Activity 9/21 to 10/06

**RAMP (Rapid Analyte Measurement Platform).** More than half of the counties in New Jersey are incorporating the use of RAMP results in their vector surveillance programs. Counties participate with the PHEL Lab in monitoring the efficacy and sensitivity of the RAMP results by sending in samples to be confirmed. Note that not all samples done by the counties are sent in to PHEL and therefore the number of pools submitted can differ from the number of pools reported by the counties.

Note: PHEL reported additional positive RAMP pools for data not currently in the database. This table will be updated to include those positives when the database is up to date.

RAMP Results for 06 October 2008

| County          | Species                          | Pools     | Mosquitoes  | Positives | PHEL (pools submitted/+/-) |
|-----------------|----------------------------------|-----------|-------------|-----------|----------------------------|
| <b>Monmouth</b> |                                  | <b>75</b> | <b>671</b>  |           |                            |
|                 | <i>Aedes albopictus</i>          | 4         | 11          |           |                            |
|                 | <i>Aedes canadensis</i>          | 8         | 38          |           |                            |
|                 | <i>Aedes cantator</i>            | 3         | 13          |           |                            |
|                 | <i>Aedes japonicus</i>           | 11        | 42          |           |                            |
|                 | <i>Aedes triseriatus</i>         | 1         | 1           |           |                            |
|                 | <i>Anopheles punctipennis</i>    | 3         | 6           |           |                            |
|                 | <i>Coquillettidia perturbans</i> | 1         | 1           |           |                            |
|                 | <i>Culex spp.</i>                | 2         | 2           |           |                            |
|                 | <i>Culiseta melanura</i>         | 1         | 1           |           |                            |
| <b>Warren</b>   |                                  | <b>51</b> | <b>1968</b> |           |                            |
|                 | <i>Aedes japonicus</i>           | 3         | 33          |           |                            |
|                 | <i>Aedes triseriatus</i>         | 1         | 1           |           |                            |
|                 | <i>Aedes vexans</i>              | 1         | 2           |           |                            |
|                 | <i>Culex restuans</i>            | 1         | 4           |           |                            |
|                 | <i>Culex spp.</i>                | 45        | 1928        | 2         | 9/0/2                      |