

# VECTOR SURVEILLANCE SUMMARY SHEET

WEEK: 9

## *Culiseta melanura* Monitor

July 29–August 2, 2002

| Coastal Resting Boxes       |                          |                                 |                         |                               |                        | Inland Resting Boxes   |                          |                                 |                         |                               |                        |
|-----------------------------|--------------------------|---------------------------------|-------------------------|-------------------------------|------------------------|------------------------|--------------------------|---------------------------------|-------------------------|-------------------------------|------------------------|
| Sites                       | Mean From Previous Years | No. Per Box For This Collection | Total Collected to Date | Total Pools Submitted to Date | EEE Isolations To Date | Sites                  | Mean From Previous Years | No. Per Box For This Collection | Total Collected to Date | Total Pools Submitted to Date | EEE Isolations To Date |
| Green Bank (Burlington Co.) | 4.1                      | 0.2                             | 124                     | 23                            | 0                      | Waterford (Camden Co.) | 0.5                      | 0.1                             | 6                       | 6                             | 0                      |
| Corbin City (Atlantic Co.)  | 1.0                      | 0.3                             | 73                      | 23                            | 0                      | Centerton (Salem Co.)  | 2.9                      | 0.4                             | 261                     | 30                            | 0                      |
| Dennisville (Cape May Co.)  | 4.9                      | 0.5                             | 186                     | 20                            | 0                      |                        |                          |                                 |                         |                               |                        |

## West Nile Virus Collections Submitted for Virus Isolation Attempts

| Species            | <i>Cx. pip</i> | <i>Cx. rest</i> | <i>Cx. sal</i> | <i>Cx. spp.</i> | <i>Ae. vex</i> | <i>Oc. cana</i> | <i>Oc. triv</i> | <i>Oc. tris</i> | <i>Oc. soll.</i> | <i>Oc. jap</i> | <i>Ae. albo</i> | <i>Cs. mel</i> | Other  | TOTALS |
|--------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|------------------|----------------|-----------------|----------------|--------|--------|
| No. Pools          | 478            | 360             | 116            | 1,495           | 266            | 145             | 128             | 251             | 46               | 193            | 61              | 119            | 675    | 4,333  |
| Total Specimens    | 9,789          | 9,270           | 2,110          | 52,867          | 4,655          | 2,799           | 4,195           | 1,346           | 372              | 913            | 285             | 721            | 10,078 | 99,400 |
| No. Positive Pools | 5              | 5               | 1              | 56              | 2              | 0               | 1               | 1               | 0                | 0              | 2               | 0              | 4      | 77     |

**Remarks:** *Culiseta melanura* populations are barely detectable at the sites NJ is monitoring for EEE activity. The hot, dry weather New Jersey has been experiencing over the past several weeks has severely stressed this important vector species. Unless there is a sizeable emergence in the near future, recovery to levels where the species can successfully amplify EEE to epizootic levels appear minimal this year. WNV activity continues to escalate with 34 additional positive pools over the past week. WNV has now been detected from 11 different species and has been documented in 17 of New Jersey's 21 counties. Despite the increase in virus activity, amplification levels are lower than they were a year ago at this point in the season. The overall MIR in 2001 was 0.220 on Week 9 vs. 0.077 this year. Adjustments in the numbers of mosquitoes within the *Culex* complex reflect corrections regarding specimens submitted for testing as *Culex* spp. but recorded as *Cx. pipiens* in the master database.

|   |
|---|
| New Jersey Agricultural Experiment Station Publication No. PT-40500-09-02<br>Supported by State funds and funding by the NJ State Mosquito Control Commission.<br>Summary Prepared by: Wayne J. Crans, Rutgers University |
|---|

Results through August 5, 2002

|                 | Species  | Pools      | Mosquitoes   | Positives |
|-----------------|--|------------|--------------|-----------|
| <b>Atlantic</b> |  | <b>217</b> | <b>5625</b>  | <b>1</b>  |
|                 | <i>Aedes albopictus</i> (Skuse)                      | 2          | 4            |           |
|                 | <i>Aedes vexans</i> (Meigen)                         | 20         | 489          |           |
|                 | <i>Anopheles bradleyi</i> (King)                     | 1          | 22           |           |
|                 | <i>Anopheles punctipennis</i> (Say)                  | 1          | 2            |           |
|                 | <i>Anopheles quadrimaculatus</i> (Say)               | 1          | 1            |           |
|                 | <i>Coquillettidia perturbans</i> (Walker)            | 4          | 23           |           |
|                 | <i>Culex restuans</i> (Theobald)                     | 1          | 1            |           |
|                 | <i>Culex salinarius</i> (Coquillett)                 | 4          | 81           |           |
|                 | <i>Culex</i> sp.                                     | 68         | 2469         |           |
|                 | <i>Culiseta melanura</i> (Coquillett)                | 23         | 78           |           |
|                 | <i>Ochlerotatus canadensis canadensis</i> (Theobald) | 11         | 501          |           |
|                 | <i>Ochlerotatus cantator</i> (Coquillett)            | 33         | 1251         |           |
|                 | <i>Ochlerotatus grossbecki</i> (Dyar & Knab)         | 6          | 69           |           |
|                 | <i>Ochlerotatus japonicus</i> (Theobald)             | 3          | 20           |           |
|                 | <i>Ochlerotatus sollicitans</i> (Walker)             | 10         | 186          |           |
|                 | <i>Ochlerotatus sticticus</i> (Meigen)               | 4          | 59           |           |
|                 | <i>Ochlerotatus taeniorhynchus</i> (Wiedemann)       | 2          | 8            |           |
|                 | <i>Ochlerotatus triseriatus</i> (Say)                | 11         | 60           |           |
|                 | <i>Ochlerotatus trivittatus</i> (Coquillett)         | 1          | 3            |           |
|                 | <i>Psorophora ciliata</i> (Fabricius)                | 9          | 200          | 1         |
|                 | <i>Psorophora ferox</i> (von Humboldt)               | 2          | 98           |           |
| <b>Bergen</b>   |  | <b>372</b> | <b>12241</b> | <b>7</b>  |
|                 | <i>Aedes albopictus</i> (Skuse)                      | 1          | 1            |           |
|                 | <i>Aedes cinereus</i> (Meigen)                       | 2          | 5            |           |
|                 | <i>Aedes vexans</i> (Meigen)                         | 14         | 284          |           |
|                 | <i>Anopheles punctipennis</i> (Say)                  | 8          | 42           |           |
|                 | <i>Anopheles quadrimaculatus</i> (Say)               | 4          | 47           |           |
|                 | <i>Coquillettidia perturbans</i> (Walker)            | 2          | 12           |           |
|                 | <i>Culex pipiens</i> (Linnaeus)                      | 48         | 985          |           |
|                 | <i>Culex restuans</i> (Theobald)                     | 80         | 2324         |           |
|                 | <i>Culex salinarius</i> (Coquillett)                 | 14         | 448          |           |
|                 | <i>Culex</i> sp.                                     | 158        | 7342         | 7         |
|                 | <i>Culex territans</i> (Walker)                      | 1          | 3            |           |
|                 | <i>Culiseta melanura</i> (Coquillett)                | 2          | 14           |           |
|                 | <i>Ochlerotatus canadensis canadensis</i> (Theobald) | 4          | 62           |           |
|                 | <i>Ochlerotatus cantator</i> (Coquillett)            | 1          | 1            |           |
|                 | <i>Ochlerotatus japonicus</i> (Theobald)             | 10         | 12           |           |
|                 | <i>Ochlerotatus sollicitans</i> (Walker)             | 2          | 21           |           |
|                 | <i>Ochlerotatus sticticus</i> (Meigen)               | 1          | 2            |           |
|                 | <i>Ochlerotatus thibaulti</i> (Dyar & Knab)          | 13         | 571          |           |
|                 | <i>Ochlerotatus triseriatus</i> (Say)                | 3          | 10           |           |
|                 | <i>Ochlerotatus trivittatus</i> (Coquillett)         | 4          | 55           |           |

|   |            |             |          |
|---|------------|-------------|----------|
| <b>Burlington</b>                             | <b>288</b> | <b>4254</b> | <b>2</b> |
| Aedes albopictus (Skuse)                      | 13         | 56          | 2        |
| Aedes vexans (Meigen)                         | 27         | 267         |          |
| Anopheles bradleyi (King)                     | 4          | 12          |          |
| Anopheles crucians (Wiedemann)                | 3          | 5           |          |
| Anopheles punctipennis (Say)                  | 11         | 33          |          |
| Anopheles quadrimaculatus (Say)               | 6          | 8           |          |
| Coquillettidia perturbans (Walker)            | 24         | 370         |          |
| Culex erraticus (Dyar & Knab)                 | 1          | 5           |          |
| Culex pipiens (Linnaeus)                      | 8          | 135         |          |
| Culex restuans (Theobald)                     | 9          | 142         |          |
| Culex salinarius (Coquillett)                 | 7          | 47          |          |
| Culex sp.                                     | 64         | 1489        |          |
| Culiseta inornata (Williston)                 | 1          | 1           |          |
| Culiseta melanura (Coquillett)                | 29         | 228         |          |
| Ochlerotatus atlanticus (Dyar & Knab)         | 1          | 1           |          |
| Ochlerotatus atropalpus (Coquillett)          | 1          | 3           |          |
| Ochlerotatus canadensis canadensis (Theobald) | 35         | 1003        |          |
| Ochlerotatus cantator (Coquillett)            | 8          | 337         |          |
| Ochlerotatus grossbecki (Dyar & Knab)         | 5          | 32          |          |
| Ochlerotatus japonicus (Theobald)             | 6          | 10          |          |
| Ochlerotatus sollicitans (Walker)             | 1          | 1           |          |
| Ochlerotatus triseriatus (Say)                | 19         | 63          |          |
| Ochlerotatus trivittatus (Coquillett)         | 1          | 2           |          |
| Psorophora ferox (von Humboldt)               | 2          | 2           |          |
| Uranotaenia sapphirina (Osten Sacken)         | 2          | 2           |          |
| (blank)                                       |            |             |          |
| <b>Camden</b>                                 | <b>144</b> | <b>1838</b> | <b>4</b> |
| Aedes albopictus (Skuse)                      | 18         | 46          |          |
| Aedes vexans (Meigen)                         | 13         | 281         |          |
| Anopheles bradleyi (King)                     | 1          | 1           |          |
| Anopheles crucians (Wiedemann)                | 4          | 163         |          |
| Anopheles punctipennis (Say)                  | 10         | 20          |          |
| Anopheles quadrimaculatus (Say)               | 3          | 4           |          |
| Coquillettidia perturbans (Walker)            | 5          | 36          |          |
| Culex erraticus (Dyar & Knab)                 | 1          | 1           |          |
| Culex pipiens (Linnaeus)                      | 12         | 196         |          |
| Culex restuans (Theobald)                     | 11         | 120         |          |
| Culex sp.                                     | 36         | 920         | 4        |
| Culiseta melanura (Coquillett)                | 4          | 4           |          |
| Ochlerotatus atropalpus (Coquillett)          | 3          | 3           |          |
| Ochlerotatus canadensis canadensis (Theobald) | 4          | 11          |          |
| Ochlerotatus triseriatus (Say)                | 15         | 25          |          |
| Ochlerotatus trivittatus (Coquillett)         | 2          | 3           |          |
| Psorophora columbiae (Dyar & Knab)            | 1          | 1           |          |
| Psorophora ferox (von Humboldt)               | 1          | 3           |          |

|   |            |             |          |
|---|------------|-------------|----------|
| <b>Cape_May</b>                               | <b>180</b> | <b>2669</b> | <b>2</b> |
| Aedes albopictus (Skuse)                      | 1          | 3           |          |
| Aedes vexans (Meigen)                         | 2          | 20          |          |
| Anopheles bradleyi (King)                     | 7          | 211         |          |
| Anopheles punctipennis (Say)                  | 2          | 4           |          |
| Anopheles quadrimaculatus (Say)               | 12         | 585         |          |
| Coquillettidia perturbans (Walker)            | 4          | 135         |          |
| Culex pipiens (Linnaeus)                      | 76         | 875         | 1        |
| Culex restuans (Theobald)                     | 32         | 283         | 1        |
| Culex salinarius (Coquillett)                 | 5          | 157         |          |
| Culex territans (Walker)                      | 1          | 4           |          |
| Culiseta melanura (Coquillett)                | 20         | 94          |          |
| Ochlerotatus canadensis canadensis (Theobald) | 6          | 183         |          |
| Ochlerotatus cantator (Coquillett)            | 7          | 79          |          |
| Ochlerotatus sollicitans (Walker)             | 1          | 11          |          |
| Ochlerotatus taeniorhynchus (Wiedemann)       | 1          | 15          |          |
| Ochlerotatus triseriatus (Say)                | 3          | 10          |          |
| (blank)                                       |            |             |          |
| <b>Cumberland</b>                             | <b>125</b> | <b>952</b>  | <b>0</b> |
| Aedes albopictus (Skuse)                      | 3          | 10          |          |
| Aedes vexans (Meigen)                         | 11         | 26          |          |
| Anopheles punctipennis (Say)                  | 1          | 1           |          |
| Anopheles quadrimaculatus (Say)               | 3          | 3           |          |
| Coquillettidia perturbans (Walker)            | 4          | 5           |          |
| Culex pipiens (Linnaeus)                      | 6          | 156         |          |
| Culex restuans (Theobald)                     | 3          | 38          |          |
| Culex salinarius (Coquillett)                 | 2          | 4           |          |
| Culex sp.                                     | 20         | 115         |          |
| Culiseta melanura (Coquillett)                | 4          | 10          |          |
| Ochlerotatus canadensis canadensis (Theobald) | 18         | 138         |          |
| Ochlerotatus cantator (Coquillett)            | 14         | 171         |          |
| Ochlerotatus grossbecki (Dyar & Knab)         | 6          | 7           |          |
| Ochlerotatus japonicus (Theobald)             | 1          | 6           |          |
| Ochlerotatus sollicitans (Walker)             | 7          | 10          |          |
| Ochlerotatus taeniorhynchus (Wiedemann)       | 3          | 3           |          |
| Ochlerotatus triseriatus (Say)                | 16         | 246         |          |
| Ochlerotatus trivittatus (Coquillett)         |            |             |          |
| Psorophora columbiae (Dyar & Knab)            | 2          | 2           |          |
| Psorophora howardii (Coquillett)              | 1          | 1           |          |
| <b>Essex</b>                                  | <b>55</b>  | <b>736</b>  | <b>0</b> |
| Aedes vexans (Meigen)                         | 2          | 6           |          |
| Culex pipiens (Linnaeus)                      | 19         | 423         |          |
| Culex restuans (Theobald)                     | 13         | 196         |          |
| Ochlerotatus japonicus (Theobald)             | 9          | 28          |          |
| Ochlerotatus sticticus (Meigen)               | 2          | 46          |          |
| Ochlerotatus triseriatus (Say)                | 6          | 24          |          |
| Ochlerotatus trivittatus (Coquillett)         | 2          | 8           |          |

|                   |   |            |             |          |
|-------------------|---|------------|-------------|----------|
|                   | Psorophora ciliata (Fabricius)                | 1          | 1           |          |
|                   | Psorophora ferox (von Humboldt)               | 1          | 4           |          |
| <b>Gloucester</b> |   | <b>133</b> | <b>2039</b> | <b>1</b> |
|                   | Aedes albopictus (Skuse)                      | 18         | 140         |          |
|                   | Aedes vexans (Meigen)                         | 5          | 15          |          |
|                   | Anopheles punctipennis (Say)                  | 3          | 4           |          |
|                   | Anopheles quadrimaculatus (Say)               | 1          | 1           |          |
|                   | Culex pipiens (Linnaeus)                      | 2          | 2           |          |
|                   | Culex sp.                                     | 75         | 1676        | 1        |
|                   | Ochlerotatus grossbecki (Dyar & Knab)         | 1          | 1           |          |
|                   | Ochlerotatus triseriatus (Say)                | 21         | 133         |          |
|                   | Psorophora ferox (von Humboldt)               | 6          | 66          |          |
|                   | Psorophora howardii (Coquillett)              | 1          | 1           |          |
| <b>Hudson</b>     |   | <b>9</b>   | <b>123</b>  | <b>1</b> |
|                   | Aedes vexans (Meigen)                         | 1          | 1           |          |
|                   | Culex pipiens (Linnaeus)                      | 2          | 3           |          |
|                   | Culex sp.                                     | 6          | 119         | 1        |
| <b>Hunterdon</b>  |   | <b>216</b> | <b>8316</b> | <b>1</b> |
|                   | Aedes vexans (Meigen)                         | 3          | 19          |          |
|                   | Anopheles punctipennis (Say)                  | 2          | 20          |          |
|                   | Anopheles quadrimaculatus (Say)               | 1          | 1           |          |
|                   | Culex pipiens (Linnaeus)                      | 14         | 362         |          |
|                   | Culex restuans (Theobald)                     | 13         | 425         |          |
|                   | Culex salinarius (Coquillett)                 | 3          | 13          |          |
|                   | Culex sp.                                     | 145        | 7046        | 1        |
|                   | Ochlerotatus canadensis canadensis (Theobald) | 2          | 14          |          |
|                   | Ochlerotatus japonicus (Theobald)             | 18         | 141         |          |
|                   | Ochlerotatus triseriatus (Say)                | 8          | 62          |          |
|                   | Ochlerotatus trivittatus (Coquillett)         | 5          | 201         |          |
|                   | Psorophora columbiae (Dyar & Knab)            | 2          | 12          |          |
|                   | (blank)                                       |            |             |          |
| <b>Mercer</b>     |   | <b>25</b>  | <b>169</b>  | <b>2</b> |
|                   | Aedes vexans (Meigen)                         | 2          | 2           |          |
|                   | Anopheles punctipennis (Say)                  | 3          | 11          |          |
|                   | Anopheles quadrimaculatus (Say)               | 2          | 4           |          |
|                   | Culex pipiens (Linnaeus)                      | 8          | 95          | 1        |
|                   | Culex restuans (Theobald)                     | 6          | 42          | 1        |
|                   | Culex salinarius (Coquillett)                 | 2          | 2           |          |
|                   | Ochlerotatus triseriatus (Say)                | 2          | 13          |          |
| <b>Middlesex</b>  |   | <b>165</b> | <b>2583</b> | <b>5</b> |
|                   | Aedes vexans (Meigen)                         | 10         | 41          |          |
|                   | Anopheles crucians (Wiedemann)                | 1          | 2           |          |
|                   | Anopheles punctipennis (Say)                  | 4          | 6           |          |
|                   | Anopheles quadrimaculatus (Say)               | 1          | 10          |          |

|   |            |             |           |
|---|------------|-------------|-----------|
| Coquillettidia perturbans (Walker)            | 6          | 49          |           |
| Culex pipiens (Linnaeus)                      | 17         | 433         | 1         |
| Culex restuans (Theobald)                     | 10         | 297         |           |
| Culex salinarius (Coquillett)                 | 5          | 76          |           |
| Culex sp.                                     | 80         | 1565        | 4         |
| Ochlerotatus canadensis canadensis (Theobald) | 1          | 1           |           |
| Ochlerotatus cantator (Coquillett)            | 8          | 57          |           |
| Ochlerotatus japonicus (Theobald)             | 4          | 8           |           |
| Ochlerotatus sollicitans (Walker)             | 4          | 12          |           |
| Ochlerotatus triseriatus (Say)                | 11         | 23          |           |
| Ochlerotatus trivittatus (Coquillett)         | 3          | 3           |           |
| <b>Monmouth</b>                               | <b>330</b> | <b>3727</b> | <b>5</b>  |
| Aedes albopictus (Skuse)                      | 2          | 21          |           |
| Aedes vexans (Meigen)                         | 16         | 151         |           |
| Anopheles barberi (Coquillett)                | 2          | 2           |           |
| Anopheles punctipennis (Say)                  | 10         | 13          | 1         |
| Anopheles quadrimaculatus (Say)               | 5          | 5           |           |
| Coquillettidia perturbans (Walker)            | 4          | 5           |           |
| Culex pipiens (Linnaeus)                      | 94         | 1527        |           |
| Culex restuans (Theobald)                     | 35         | 885         | 2         |
| Culex salinarius (Coquillett)                 | 6          | 22          |           |
| Culex sp.                                     | 71         | 907         | 3         |
| Ochlerotatus canadensis canadensis (Theobald) | 11         | 43          |           |
| Ochlerotatus cantator (Coquillett)            | 4          | 10          |           |
| Ochlerotatus japonicus (Theobald)             | 31         | 45          |           |
| Ochlerotatus sollicitans (Walker)             | 6          | 21          |           |
| Ochlerotatus triseriatus (Say)                | 26         | 59          |           |
| Ochlerotatus trivittatus (Coquillett)         | 7          | 11          |           |
| <b>Morris</b>                                 | <b>254</b> | <b>6732</b> | <b>14</b> |
| Aedes cinereus (Meigen)                       | 8          | 243         |           |
| Aedes vexans (Meigen)                         | 28         | 805         | 2         |
| Anopheles punctipennis (Say)                  | 12         | 48          | 1         |
| Anopheles quadrimaculatus (Say)               | 3          | 56          |           |
| Anopheles walkeri (Theobald)                  | 3          | 19          |           |
| Coquillettidia perturbans (Walker)            | 7          | 76          |           |
| Culex pipiens (Linnaeus)                      | 10         | 160         | 1         |
| Culex restuans (Theobald)                     | 26         | 998         | 1         |
| Culex salinarius (Coquillett)                 | 7          | 186         | 1         |
| Culex sp.                                     | 77         | 2807        | 6         |
| Ochlerotatus canadensis canadensis (Theobald) | 7          | 128         |           |
| Ochlerotatus cantator (Coquillett)            | 1          | 3           |           |
| Ochlerotatus grossbecki (Dyar & Knab)         | 3          | 101         |           |
| Ochlerotatus japonicus (Theobald)             | 21         | 73          |           |
| Ochlerotatus sticticus (Meigen)               | 12         | 444         |           |
| Ochlerotatus stimulans (Walker)               | 5          | 151         |           |
| Ochlerotatus triseriatus (Say)                | 9          | 36          | 1         |
| Ochlerotatus trivittatus (Coquillett)         | 14         | 397         | 1         |
| Orthopodomyia signifera (Coquillett)          | 1          | 1           |           |

|                |  |            |             |           |
|----------------|--|------------|-------------|-----------|
| <b>Ocean</b>   |  | <b>298</b> | <b>5133</b> | <b>11</b> |
|                | <i>Aedes albopictus</i> (Skuse)                      | 3          | 4           |           |
|                | <i>Aedes vexans</i> (Meigen)                         | 23         | 170         |           |
|                | <i>Anopheles bradleyi</i> (King)                     | 5          | 24          |           |
|                | <i>Anopheles punctipennis</i> (Say)                  | 3          | 4           |           |
|                | <i>Anopheles quadrimaculatus</i> (Say)               | 1          | 1           |           |
|                | <i>Coquillettidia perturbans</i> (Walker)            | 17         | 240         |           |
|                | <i>Culex pipiens</i> (Linnaeus)                      | 13         | 184         | 1         |
|                | <i>Culex restuans</i> (Theobald)                     | 11         | 160         |           |
|                | <i>Culex salinarius</i> (Coquillett)                 | 22         | 429         |           |
|                | <i>Culex</i> sp.                                     | 99         | 3255        | 10        |
|                | <i>Culex territans</i> (Walker)                      | 1          | 1           |           |
|                | <i>Culiseta melanura</i> (Coquillett)                | 14         | 56          |           |
|                | <i>Ochlerotatus canadensis canadensis</i> (Theobald) | 21         | 259         |           |
|                | <i>Ochlerotatus cantator</i> (Coquillett)            | 20         | 125         |           |
|                | <i>Ochlerotatus grossbecki</i> (Dyar & Knab)         | 1          | 1           |           |
|                | <i>Ochlerotatus japonicus</i> (Theobald)             | 4          | 21          |           |
|                | <i>Ochlerotatus sollicitans</i> (Walker)             | 11         | 98          |           |
|                | <i>Ochlerotatus sticticus</i> (Meigen)               | 1          | 1           |           |
|                | <i>Ochlerotatus taeniorhynchus</i> (Wiedemann)       | 1          | 13          |           |
|                | <i>Ochlerotatus triseriatus</i> (Say)                | 24         | 71          |           |
|                | <i>Psorophora ferox</i> (von Humboldt)               | 3          | 16          |           |
| <b>Passaic</b> |  | <b>213</b> | <b>6961</b> | <b>14</b> |
|                | <i>Aedes vexans</i> (Meigen)                         | 6          | 20          |           |
|                | <i>Anopheles punctipennis</i> (Say)                  | 7          | 35          |           |
|                | <i>Anopheles quadrimaculatus</i> (Say)               | 5          | 38          |           |
|                | <i>Anopheles walkeri</i> (Theobald)                  | 1          | 2           |           |
|                | <i>Coquillettidia perturbans</i> (Walker)            | 1          | 2           |           |
|                | <i>Culex pipiens</i> (Linnaeus)                      | 9          | 315         |           |
|                | <i>Culex restuans</i> (Theobald)                     | 5          | 75          |           |
|                | <i>Culex salinarius</i> (Coquillett)                 | 3          | 4           |           |
|                | <i>Culex</i> sp.                                     | 147        | 6305        | 14        |
|                | <i>Ochlerotatus canadensis canadensis</i> (Theobald) | 2          | 19          |           |
|                | <i>Ochlerotatus japonicus</i> (Theobald)             | 15         | 97          |           |
|                | <i>Ochlerotatus triseriatus</i> (Say)                | 7          | 34          |           |
|                | <i>Ochlerotatus trivittatus</i> (Coquillett)         | 5          | 15          |           |
| <b>Salem</b>   |  | <b>330</b> | <b>4520</b> | <b>1</b>  |
|                | <i>Aedes vexans</i> (Meigen)                         | 21         | 104         |           |
|                | <i>Anopheles bradleyi</i> (King)                     | 4          | 20          |           |
|                | <i>Anopheles punctipennis</i> (Say)                  | 15         | 45          | 1         |
|                | <i>Anopheles quadrimaculatus</i> (Say)               | 37         | 293         |           |
|                | <i>Anopheles walkeri</i> (Theobald)                  | 1          | 1           |           |
|                | <i>Coquillettidia perturbans</i> (Walker)            | 6          | 8           |           |
|                | <i>Culex erraticus</i> (Dyar & Knab)                 | 2          | 8           |           |
|                | <i>Culex pipiens</i> (Linnaeus)                      | 49         | 1328        |           |
|                | <i>Culex restuans</i> (Theobald)                     | 14         | 120         |           |
|                | <i>Culex salinarius</i> (Coquillett)                 | 28         | 614         |           |

|   |            |              |          |
|---|------------|--------------|----------|
| Culex sp.                                     | 93         | 1600         |          |
| Culex territans (Walker)                      | 1          | 2            |          |
| Culiseta melanura (Coquillett)                | 23         | 237          |          |
| Ochlerotatus canadensis canadensis (Theobald) | 1          | 2            |          |
| Ochlerotatus cantator (Coquillett)            | 16         | 83           |          |
| Ochlerotatus sollicitans (Walker)             | 4          | 12           |          |
| Ochlerotatus taeniorhynchus (Wiedemann)       | 1          | 2            |          |
| Ochlerotatus thibaulti (Dyar & Knab)          | 1          | 2            |          |
| Ochlerotatus triseriatus (Say)                | 13         | 39           |          |
| (blank)                                       |            |              |          |
| <b>Somerset</b>                               | <b>209</b> | <b>4966</b>  | <b>2</b> |
| Aedes vexans (Meigen)                         | 7          | 26           |          |
| Anopheles punctipennis (Say)                  | 6          | 18           |          |
| Anopheles quadrimaculatus (Say)               | 1          | 1            |          |
| Culex pipiens (Linnaeus)                      | 49         | 1661         |          |
| Culex restuans (Theobald)                     | 12         | 191          |          |
| Culex salinarius (Coquillett)                 | 3          | 5            |          |
| Culex sp.                                     | 73         | 2899         | 2        |
| Ochlerotatus canadensis canadensis (Theobald) | 3          | 5            |          |
| Ochlerotatus japonicus (Theobald)             | 27         | 70           |          |
| Ochlerotatus sticticus (Meigen)               | 1          | 1            |          |
| Ochlerotatus stimulans (Walker)               | 1          | 1            |          |
| Ochlerotatus triseriatus (Say)                | 22         | 48           |          |
| Ochlerotatus trivittatus (Coquillett)         | 3          | 39           |          |
| Psorophora ferox (von Humboldt)               | 1          | 1            |          |
| <b>Sussex</b>                                 | <b>401</b> | <b>14611</b> | <b>0</b> |
| Aedes cinereus (Meigen)                       | 8          | 91           |          |
| Aedes vexans (Meigen)                         | 47         | 1835         |          |
| Anopheles punctipennis (Say)                  | 12         | 190          |          |
| Anopheles quadrimaculatus (Say)               | 8          | 196          |          |
| Coquillettidia perturbans (Walker)            | 31         | 939          |          |
| Culex pipiens (Linnaeus)                      | 6          | 38           |          |
| Culex restuans (Theobald)                     | 17         | 407          |          |
| Culex sp.                                     | 124        | 5713         |          |
| Ochlerotatus aurifer (Coquillett)             | 1          | 24           |          |
| Ochlerotatus canadensis canadensis (Theobald) | 18         | 419          |          |
| Ochlerotatus fitchii (Felt & Young)           | 1          | 49           |          |
| Ochlerotatus japonicus (Theobald)             | 13         | 207          |          |
| Ochlerotatus sticticus (Meigen)               | 20         | 627          |          |
| Ochlerotatus stimulans (Walker)               | 7          | 206          |          |
| Ochlerotatus triseriatus (Say)                | 11         | 232          |          |
| Ochlerotatus trivittatus (Coquillett)         | 77         | 3438         |          |



|                    |   |             |              |           |
|--------------------|---|-------------|--------------|-----------|
| <b>Union</b>       |   | <b>100</b>  | <b>2639</b>  | <b>3</b>  |
|                    | Aedes vexans (Meigen)                         | 5           | 26           |           |
|                    | Anopheles punctipennis (Say)                  | 4           | 7            |           |
|                    | Anopheles quadrimaculatus (Say)               | 2           | 3            |           |
|                    | Culex pipiens (Linnaeus)                      | 31          | 869          |           |
|                    | Culex restuans (Theobald)                     | 18          | 645          |           |
|                    | Culex salinarius (Coquillett)                 | 4           | 21           |           |
|                    | Culex sp.                                     | 25          | 1048         | 3         |
|                    | Ochlerotatus japonicus (Theobald)             | 4           | 6            |           |
|                    | Ochlerotatus triseriatus (Say)                | 7           | 14           |           |
| <b>Warren</b>      |   | <b>269</b>  | <b>8566</b>  | <b>0</b>  |
|                    | Aedes cinereus (Meigen)                       | 1           | 3            |           |
|                    | Aedes vexans (Meigen)                         | 3           | 67           |           |
|                    | Anopheles crucians (Wiedemann)                | 1           | 5            |           |
|                    | Anopheles punctipennis (Say)                  | 4           | 24           |           |
|                    | Anopheles quadrimaculatus (Say)               | 9           | 95           |           |
|                    | Anopheles walkeri (Theobald)                  | 7           | 350          |           |
|                    | Coquillettidia perturbans (Walker)            | 8           | 112          |           |
|                    | Culex pipiens (Linnaeus)                      | 5           | 42           |           |
|                    | Culex restuans (Theobald)                     | 44          | 1921         |           |
|                    | Culex salinarius (Coquillett)                 | 1           | 1            |           |
|                    | Culex sp.                                     | 134         | 5592         |           |
|                    | Ochlerotatus atropalpus (Coquillett)          | 1           | 2            |           |
|                    | Ochlerotatus canadensis canadensis (Theobald) | 1           | 11           |           |
|                    | Ochlerotatus japonicus (Theobald)             | 27          | 169          |           |
|                    | Ochlerotatus stimulans (Walker)               | 2           | 8            |           |
|                    | Ochlerotatus triseriatus (Say)                | 17          | 144          |           |
|                    | Ochlerotatus trivittatus (Coquillett)         | 4           | 20           |           |
| <b>Grand Total</b> |   | <b>4333</b> | <b>99400</b> | <b>77</b> |