**VECTOR SURVEILLANCE SUMMARY SHEET**

**WEEK:** 20

**Culiseta melanura Monitor**

October 14 - 18, 2002

### Coastal Resting Boxes

<table>
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<tr>
<th>Sites</th>
<th>Mean From Previous Years</th>
<th>No. Per Box For This Collection</th>
<th>Total Collected to Date</th>
<th>Total Pools Submitted to Date</th>
<th>EEE Isolations To Date</th>
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### Inland Resting Boxes

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### Collections submitted to PHEL for West Nile Virus testing

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<th>Cx. sal</th>
<th>Cx. spp.</th>
<th>Ae. vex</th>
<th>Oc. cana</th>
<th>Oc. triv</th>
<th>Oc. tris</th>
<th>Oc. soll</th>
<th>Oc. jap</th>
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**Remarks:** This week’s collection represents the last of the season for *Culiseta melanura* at the five resting box collection sites in southern New Jersey. The resting box monitoring program has usually been terminated by this time because of cool night time temperatures and low population levels. As a result, we have limited data on average size of the populations this late in the season. The averages reported for week 20 in this report were drawn from the few years when surveillance continued beyond mid-October because of sustained virus activity and/or unusually high fall populations. The numbers of specimens being tested for WNV is also on the decline because of low mosquito populations and trapping problems encountered at this time of year. Less than 1,600 specimens were submitted for testing since the last report but the collections yielded 3 positives, indicating that WNV is still present at low levels in mosquito populations that are still on the wing. At this point in the season, county mosquito control agencies have collected and pooled 80% of the specimens in this year’s database. Minimum Infection Rates in bird feeding mosquito species that drive the amplification phase of the cycle include: *Cx. pipiens* 6.5, *Cx. spp.* 4.2, *Cx. restuans* 1.7, *Cs. melanura* 0.7. Minimum infection rates in selected potential bridge vectors include: *Oc. japonicus* 4.5, *Cx. salinarius* 2.4, *Ae. albopictus* 1.6, *Oc. triseriatus* 1.4, *Ae. vexans* 0.9, *Oc. sollicitans* 0.5.

New Jersey Agricultural Experiment Station Publication No. PT-40500-19-02
Supported by State funds and funding by the NJ State Mosquito Control Commission.
Summary Prepared by: Wayne J. Crans, Rutgers University
Submissions by County through October 21, 2002

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**Burlington**

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**Camden**

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| Grand Total              | 8946  | 168134 | 549         |