Florida Arbovirus Surveillance
Week 3: January 17-23, 2010

Arbovirus surveillance in Florida includes endemic viruses West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and imported viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). During the period January 17-23, 2010, the following arboviral activity was recorded in Florida:

**EEEV activity**: Two sentinels in Orange and Sarasota counties tested positive for antibodies to EEEV.

**WNV activity**: No activity has been reported this week.

**HJV activity**: No activity has been reported this week.

**Advisories/Alerts**: Monroe County is under a mosquito-borne illness advisory.

Veterinary Cases

No positive horses were reported this week.

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[Charts for Veterinary EEEV and Veterinary WNV cases from February 2009 to January 2010]
There were two seroconversions to EEEV in sentinel chickens from Orange and Sarasota counties. Seroconversion rates are calculated by week and include previously reported results.

<table>
<thead>
<tr>
<th>County</th>
<th>Collection Date</th>
<th>Seroconversion Rates (%)</th>
<th>County Totals</th>
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<tbody>
<tr>
<td></td>
<td>SLEV WNV EEEV HJV Week YTD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sarasota</td>
<td>01/11/10</td>
<td>2.4 1 EEE 1 EEE</td>
<td></td>
</tr>
<tr>
<td>Orange</td>
<td>01/07/10</td>
<td>0.9 1 EEE 1 EEE</td>
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</tbody>
</table>

**Sentinel Seroconversions to EEEV in North and Panhandle Florida, 2009-2010**

**Sentinel Seroconversions to WNV in Florida, 2009-2010**
Live Wild Birds

No positive live wild birds were reported this week.

Dead Birds

The Fish and Wildlife Conservation Commission (FWC) collects reports of dead birds, which can be an indication of arbovirus circulation in an area. This week, six reports representing eight dead birds were received from six counties. None were identified as crows or jays; one was identified as a raptor. In 2010, 15 reports representing a total of 47 dead birds (0 crows, 0 jays, 8 raptors, 39 others) have been received from 15 of Florida’s 67 counties. Please note that FWC collects reports of birds that have died from a variety of causes, not only arboviruses. Dead birds should be reported to www.myfwc.com/bird/.

Maps

Florida Arbovirus Surveillance
January 17-23, 2010

- Counties under mosquito-borne illness advisory
- 1 - 2 EEE Positive Chickens
YTD Arbovirus Activity by County

<table>
<thead>
<tr>
<th>County</th>
<th>Arbovirus Activity</th>
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<tbody>
<tr>
<td>Sarasota</td>
<td>EEE: 2 sentinels (1/5, 1/11)</td>
</tr>
<tr>
<td>Okaloosa</td>
<td>EEE: 1 live wild bird (1 house sparrow 1/4)</td>
</tr>
<tr>
<td>Orange</td>
<td>EEE: 1 sentinel (1/7)</td>
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</tbody>
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Acknowledgements and Data Sources

Contributors: Elizabeth Radke, MPH, Kristina Weis, PhD, Danielle Stanek, DVM, and Carina Blackmore, DVM, PhD.

Data is provided by county health departments, Department of Health Laboratories, Department of Agriculture and Consumer Services, mosquito control agencies, Florida Fish and Wildlife Conservation Commission, medical providers and veterinarians. Equine cases are determined by the Department of Agriculture and Consumer Services. Wild captured bird information is provided by the John A. Mulreannan Public Health Entomology Research and Education Center.