Florida Arbovirus Surveillance  
Week 2: January 8 - January 14, 2012

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and exotic viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). Malaria, a non-viral mosquito-borne disease is also included. During the period January 8 - January 14, 2012, the following arboviral activity was recorded in Florida:

**DENV activity:** No new cases of locally acquired dengue were reported this week.

**EEEV activity:** Two equine cases of EEE were reported in Levy County.

**WNV activity:** Three sentinel chickens collected in December and November 2011 from Hillsborough and Lee counties tested positive for antibodies to WNV.

**SLEV activity:** Three sentinel chickens in Hillsborough County tested positive for antibodies to SLEV.

**HJV activity:** No HJV activity was reported this week.

**Advisories/Alerts:** Hillsborough and Levy counties are under mosquito-borne illness advisory. The Bahamas has also issued an alert due to high dengue activity: http://wwwnc.cdc.gov/travel/notices/outbreak-notice/dengue-bahamas.htm

**Year to Date Human Case Summary**

**Imported Dengue:** Two cases of dengue with onset in 2012 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Surinam and Guyana. County reporting cases was Broward (2).

**Imported Malaria:** Two imported cases of malaria with onset in 2012 have been reported. County of origin was: Haiti (2). Counties reporting cases were: Marion and Orange.

**Veterinary Cases**

Two horses in Levy County tested positive for EEEV this week.

<table>
<thead>
<tr>
<th>County</th>
<th>Onset Date</th>
<th>Species</th>
<th>Virus</th>
<th>Status</th>
<th>County YTD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levy</td>
<td>1/2/12</td>
<td>Equine</td>
<td>EEEV</td>
<td>Euthanized</td>
<td></td>
</tr>
<tr>
<td>Levy</td>
<td>1/2/12</td>
<td>Equine</td>
<td>EEEV</td>
<td>Euthanized</td>
<td>2 EEEV</td>
</tr>
</tbody>
</table>
Veterinary EEE in Florida, January 2011-2012

Number of cases

Month of onset

Veterinary WNV Disease in Florida, January 2011-2012

Number of cases

Month of onset
**Sentinel Chickens**

Three sentinel chickens in Hillsborough County tested positive for antibodies to SLEV. 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SLEV  WNV  EEEV  HJV</td>
<td>Week</td>
</tr>
<tr>
<td>Hillsborough</td>
<td>1/3/12</td>
<td>5.45</td>
<td>3 SLEV</td>
</tr>
</tbody>
</table>

Three sentinel chickens collected in December and November 2011 from Hillsborough and Lee counties tested positive for antibodies to WNV. These chickens will be included in 2011 data. 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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>SLEV  WNV  EEEV  HJV</td>
<td>Week</td>
</tr>
<tr>
<td>Hillsborough</td>
<td>12/29/11</td>
<td>1.89</td>
<td>1WNV</td>
</tr>
<tr>
<td>Lee</td>
<td>11/28/11</td>
<td>2.53</td>
<td>2WNV</td>
</tr>
</tbody>
</table>

**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, 12 reports representing 38 dead birds were received from ten counties. Two birds were identified as raptors; one was identified as jay and one as crow. In 2012, eighteen reports representing a total of 48 dead birds (1 crow, 1 jay, 5 raptors, 41 others) were received from 14 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/](http://www.myfwc.com/bird/)
Maps

Florida Arbovirus Surveillance
January 8 - January 14, 2012

- SLEV Positive Chickens
- EEEV Positive Equines
- Counties under mosquito-borne illness advisory

**County** | **Arbovirus Activity**
---|---
Hillsborough | SLEV: 3 sentinels (1/3)
Levy | EEEV: 2 horses (1/2)

Acknowledgements and Data Sources

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For more surveillance information, please see the DOH website at: [http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html](http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html)

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.