

## Florida Mosquito-Borne Disease Summary for the Week of June 7-13, 2009

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During the period June 7-13, 2009, the following arboviral activity (St. Louis encephalitis virus [SLEV], Eastern equine encephalitis virus [EEEV], Highlands J virus [HJV], West Nile virus [WNV], California encephalitis group viruses [CEV]) was recorded in Florida:

**EEEV activity:** Four EEEV-confirmed positive horses were reported from Hamilton, Suwannee, Jackson, and Duval counties. There were seven seroconversions to EEEV in sentinel chickens from Walton (4), Orange, Leon, and Nassau counties. One live wild bird captured from Santa Rosa County tested positive for antibodies to EEEV.

**WNV/SLEV activity:** None this week.

**HJV activity:** There were three seroconversions to HJV in sentinel chickens from Walton County.

**CEV activity:** None this week.

### Advisories/Alerts:

Volusia and Columbia counties are under mosquito-borne illness advisories. No other counties are currently under mosquito-borne illness alert or advisory.

### Veterinary Cases:

Four horses tested positive for EEEV this week in Hamilton, Suwannee, Jackson, and Duval counties, bringing the state's total to 17 for 2009.

| County   | Onset Date | Species | SLE | WNV | EEE | Status     |
|----------|------------|---------|-----|-----|-----|------------|
| Hamilton | 5/25/09    | Equine  |     |     | 1   | Dead       |
| Suwannee | 5/28/09    | Equine  |     |     | 1   | Euthanized |
| Jackson  | 6/4/09     | Equine  |     |     | 1   | Dead       |
| Duval    | 6/7/09     | Equine  |     |     | 1   | Dead       |

### Sentinel Chickens:

There were seven seroconversions to EEEV in sentinel chickens from Walton (4), Orange, Leon, and Nassau counties and three seroconversions to HJV in sentinel chickens from Walton County.

| County         | Collection Date | Seroconversion Rates |     |      |       | By County, Week and Virus |
|----------------|-----------------|----------------------|-----|------|-------|---------------------------|
|                |                 | SLEV                 | WNV | EEEV | HJV   |                           |
| Walton (South) | 6/1/09          |                      |     | 5.10 |       | 4 EEEV                    |
| Walton (North) | 5/16, 5/20      |                      |     |      | 10.70 | 3 HJV                     |
| Leon           | 6/1/09          |                      |     | 1.20 |       | 1 EEEV                    |
| Nassau         | 6/1/09          |                      |     | 2.78 |       | 1 EEEV                    |
| Orange         | 6/1/09          |                      |     | 0.88 |       | 1 EEEV                    |

### Live Wild Birds:

Out of 24 live wild birds collected from three counties on June 1-4, one blue jay from Santa Rosa County tested positive for antibodies to EEEV.

| County     | Collection Date | EEEV | EEEV-Flavi* | Flavi | Species    | EEEV Rate  | Flavi Rate |
|------------|-----------------|------|-------------|-------|------------|------------|------------|
| Santa Rosa | 6/2/09          | 1    |             |       | 1 Blue jay | 1 out of 9 | N/A        |

**Dead Bird Reports:**

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 23 dead birds were received from five counties. This week, 14 reports representing 38 dead birds were received from 11 counties. Four were identified as jays and six as raptors. None were identified as crows. 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/). See the web page for more information: <http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>