

## Florida Mosquito-Borne Disease Summary for the Week of June 28-July 4, 2009

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During the period June 28-July 4, 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 Washington, Volusia, and Madison (2) counties. There were twenty-four seroconversions to EEEV in sentinel chickens from Walton (20), Leon (2), Orange, and Gulf counties. Three live wild birds captured from Okaloosa, Santa Rosa, and Walton counties tested positive for antibodies to EEEV.

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

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

**CEV activity:** None this week.

### Advisories/Alerts:

Walton County issued a mosquito-borne illness advisory in response to increased EEEV activity in its sentinel chicken flocks. Madison County issued an advisory following two confirmed EEEV positive horses within a two week period. Volusia, Columbia, Suwannee, Leon, Clay, and Union counties are already 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 Washington, Volusia, and Madison counties, bringing the state's total to 34 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Washington	6/21/09	Equine			1	Dead
Volusia	6/20/09	Equine			1	Dead
Madison	6/23/09, 6/26/09	Equine			1	1 Euthanized, 1 Dead

### Sentinel Chickens:

There were twenty-four seroconversions to EEEV reported in sentinel chickens from Walton (20), Leon (2), Orange, and Gulf counties, and two seroconversions to HJV in Walton County. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Walton (North)	6/21/09			15.22		7 EEE
Walton (South)	6/22/09			7.46		5 EEE
Leon	6/22/09			5.26		2 EEE
Gulf	6/22/09			4.77		1 EEE
Orange	6/22/09			0.90		1 EEE
Walton (North)	6/17/09			2.27		1 EEE
Walton (South)	6/15/09			2.74	2.74	2 EEE, 2 HJ
Walton (North)	6/9/09, 6/10/09			11.29		7 EEE

**Live Wild Birds:**

Out of 24 live wild birds collected from three counties on June 22-25, three cardinals from Okaloosa, Santa Rosa, and Walton counties tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi*	Flavi	Species	EEEV Rate	Flavi Rate
Walton (North)	6/25/09	1			Cardinal	1 out of 7	N/A
Santa Rosa	6/23/09	1			Cardinal	1 out of 7	N/A
Okaloosa	6/22/09	1			Cardinal	1 out of 10	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, three reports representing three dead birds were received from three counties. One was identified as a crow; none were identified as jays or raptors. 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>