

## Florida Mosquito-Borne Disease Summary for the Week of July 26-August 1, 2009

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During the period July 26-August 1, 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:** Six EEEV-confirmed positive horses were reported from Baker, Duval, Leon, Madison, St. Johns, and Volusia counties. There were six seroconversions to EEEV in sentinel chickens from Orange (3), St. Johns (2) and Walton counties. Five live wild birds captured from Okaloosa County tested positive for antibodies to EEEV.

**WNV/SLEV activity:** There was one seroconversion to WNV in a sentinel chicken from Walton County.

**HJV activity:** There were six seroconversions to HJV in sentinel chickens from Alachua (2), Gulf, Leon, and Walton (2) counties.

**CEV activity:** None this week.

### Advisories/Alerts:

Clay, Columbia, Leon, Madison, Suwannee, Union, Volusia and Walton counties are under mosquito-borne illness advisories. No other counties are currently under mosquito-borne illness alert or advisory.

### Veterinary Cases:

Six horses tested positive for EEEV this week in Baker, Duval, Leon, Madison, St. Johns, and Volusia counties, bringing the state's total to 53 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Baker	7/13/2009	Equine			1	Euthanized
Duval	7/16/2009	Equine			1	Euthanized
Leon	7/19/2009	Equine			1	Euthanized
Madison	7/18/2009	Equine			1	Dead
St. Johns	7/17/2009	Equine			1	Euthanized
Volusia	7/19/2009	Equine			1	Euthanized

### Sentinel Chickens:

There were six seroconversions to EEEV in sentinel chickens from Orange (3), St. Johns (2) and Walton (1), one to WNV from Walton, and six to HJV from Alachua (2), Gulf (1), Leon (1) and Walton (2) counties. 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	
Alachua	7/7/09				11.76	2 HJ
Gulf	6/29/09				10.00	2 HJ
Leon	7/13/09				2.56	1 HJ
Orange	7/9/09			1.03		1 EEE
Orange	7/13/09			1.01		1 EEE
Orange	7/20/09			0.98		1 EEE
St. Johns	6/29/09			1.70		1 EEE
St. Johns	7/20/09			1.92		1 EEE

Walton (North)	7/7, 7/8/09			2.70	5.41	1 EEE, 2 HJ
Walton (South)	7/20/09		1.30			1 WN

**Live Wild Birds:**

Out of 23 live wild birds collected from three counties on July 20-23, two cardinals and three blue jays from Okaloosa County tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi*	Flavi	Species	EEEV Rate	Flavi Rate
Walton (North)	7/20/09, 7/23/09	5			3 Blue Jays, 2 Cardinals	5 out of 11	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, two reports representing two dead birds were received from one county. One was identified as a raptor; none were identified as crows or jays. 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>