

## Florida Mosquito-Borne Disease Summary for the Week of August 16-22, 2009

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During the period August 16-22, 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:** Three EEEV-confirmed positive horses were reported from Nassau, Levy, and Walton counties. There were seven seroconversions to EEEV in sentinel chickens from St. Johns (4), Gulf (2), and Flagler counties. Four live wild birds captured from Okaloosa, Santa Rosa, and Walton counties 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 two seroconversions to HJV in sentinel chickens from St. Johns and Leon counties.

**CEV activity:** None this week.

**Advisories/Alerts:**

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

**Veterinary Cases:**

Three horses tested positive for EEEV this week in Nassau, Levy, and Walton counties, bringing the state's total to 63 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Walton	8/10/09	Equine			1	Euthanized
Levy	8/10/09	Equine			1	Dead
Nassau	8/9/09	Equine			1	Euthanized

**Sentinel Chickens:**

There was one seroconversion to WNV in a sentinel chicken from Walton County, seven to EEEV in St. Johns (4), Gulf (2), and Flagler counties, and two to HJV in St. Johns and Leon 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	
Flagler	8/10/09			10.0		1 EEE
St. Johns	8/10/09			5.5		3 EEE
Gulf	8/10/09			2.8		1 EEE
Leon	8/4/09				2.6	1 HJ
St. Johns	8/3/09			8.6	1.7	5 EEE, 1 HJ
Gulf	7/28/09			7.7		1 EEE
Walton (South)	7/20/09		2.8			2 WN

**Live Wild Birds:**

Out of 23 live wild birds collected from three counties on August 10-13, three blue jays and one cardinal 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
Okaloosa	8/10/09	2			2 Blue jays	2 out of 9	N/A
Santa Rosa	8/12/09	1			1 Blue jay	1 out of 7	N/A
Walton	8/13/09	1			1 Cardinal	1 out of 7	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, nine reports representing 18 dead birds were received from six counties. Two were identified as crows, one as a jay, and one as a raptor. 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>