

## Florida Mosquito-Borne Disease Summary for the Week of October 11-17, 2009

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During the period October 11-17, 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]), Dengue virus (DENV) was recorded in Florida:

**EEEV activity:** There were five seroconversions to EEEV in sentinel chickens from Putnam, Sarasota, and Walton (3) counties. Two live wild birds from Walton County tested positive for antibodies to EEEV.

**WNV/SLEV activity:** A locally-acquired case of WNV disease was confirmed in a Lee County resident. A WNV-confirmed positive horse was reported from Alachua County. There were two seroconversions to WNV in sentinel chickens from Gulf and Putnam counties.

**HJV activity:** There was one seroconversion to HJV in a sentinel chickens from Putnam County.

**CEV activity:** None this week.

**DENV activity:** No dengue activity has been reported this week in Key West. The total number of confirmed locally-acquired cases is three (two Florida residents).

### Advisories/Alerts:

Lee County issued a mosquito-borne illness advisory in response to a locally-acquired human case of WNV. Miami-Dade, Monroe, Volusia, Columbia, Suwannee, Leon, Clay, Union, Walton, St. Johns, Flagler, and Madison counties are under mosquito-borne illness advisories. No other counties are currently under mosquito-borne illness alert or advisory.

### Veterinary Cases:

One horse tested positive for WNV this week in Alachua, bringing the state's total for WNV to 4 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Alachua	10/5/09	Equine		1		Alive

### Sentinel Chickens:

There were five seroconversions to EEEV in sentinel chickens from Putnam, Sarasota, and Walton (3) counties, two to WNV in Putnam and Gulf counties, and one to HJV in Putnam 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	
Putnam	10/6/09		7.7			1 WN
Gulf	10/5/09		7.1			1 WN
Sarasota	10/2/09			1.5		1 EEE
Putnam	9/25/09			7.7	7.7	1 EEE, 1 HJ
Walton (North)	9/23/09			10.3		4 EEE

**Live Wild Birds:**

Out of 7 live wild birds collected from Walton County on October 8, a cardinal and a red-winged blackbird tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Walton	10/8/09	2			1 Cardinal, 1 Red-Winged Blackbird	2 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, four reports representing five dead birds were received from four counties. 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>