

Florida Mosquito-Borne Disease Summary for the Week of August 30-September 5, 2009

Elizabeth Radke, MPH, Kristina Weis, Ph.D., Danielle Stanek, D.V.M, Carina Blackmore, D.V.M, Ph.D.

During the period August 30-September 5, 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 Putnam, Alachua, and Levy counties. There were four seroconversions to EEEV in sentinel chickens from Alachua, Flagler, Nassau, and Orange counties. Two live wild birds captured from Okaloosa and Santa Rosa counties tested positive for antibodies to EEEV.

WNV/SLEV activity: There were five seroconversions to WNV in sentinel chickens from Nassau (3), Duval, and Bay counties.

HJV activity: There were five seroconversions to HJV in sentinel chickens from Leon, Nassau, Putnam, St. Johns, and Walton counties.

CEV activity: None this week.

Advisories/Alerts:

Monroe County issued a mosquito-borne illness advisory this week. 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 Putnam, Alachua, and Levy counties, bringing the state's total for EEEV to 67 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Levy	8/24/09	Equine			1	Dead
Putnam	8/19/09	Equine			1	Euthanized
Alachua	8/16/09	Equine			1	Euthanized

Sentinel Chickens:

There were four seroconversions to EEEV in sentinel chickens from Alachua, Flagler, Nassau, and Orange counties, five to WNV in Nassau (3), Duval, and Bay, counties, and five to HJV in Leon, Nassau, Putnam, and Walton 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	
Bay	8/25/09		5.6			1 WN
Duval	8/24/09		3.8			1 WN
Nassau	8/24/09		2.8	3.1		1 EEE, 1 WN
Flagler	8/24/09			9.1		1 EEE
Alachua	8/24/09			2.9		1 EEE
Orange	8/24/09			1.0		1 EEE
Walton (South)	8/18/09			1.3		1 HJ

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Nassau	8/17/09		7.1	3.6	3.6	2 WN, 1 EEE, 1 HJ
St. Johns	8/17/09				1.8	1 HJ
Putnam	8/14/09			9.1	9.1	1 EEE, 1 HJ
Leon	8/4/09				5.2	2 HJ

Live Wild Birds:

Out of 23 live wild birds collected from three counties on August 24-27, a blue jay from Okaloosa County and a cardinal from Santa Rosa County tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Okaloosa	8/27/09	1			1 Blue jay	1 out of 8	N/A
Santa Rosa	8/25/09	1			1 Cardinal	1 out of 8	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 23 dead birds were received from three counties. One was identified as crow, fifteen as jays, and none as 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/. See the web page for more information: <http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>