

Florida Mosquito-Borne Disease Summary for the Week of August 23-29, 2009

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

During the period August 23-29, 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: One EEEV-confirmed positive horse was reported from Union County. There were seven seroconversions to EEEV in sentinel chickens from Nassau (4), Flagler, Putnam, and Walton counties. Three live wild birds captured from Okaloosa and Santa Rosa counties tested positive for antibodies to EEEV.

WNV/SLEV activity: One WNV-confirmed positive horse was reported from Santa Rosa County.

HJV activity: There were six seroconversions to HJV in sentinel chickens from Walton (4), Orange, and Alachua counties.

CEV activity: None this week.

Advisories/Alerts:

Clay, Columbia, Leon, Madison, St. Johns, 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:

One horse tested positive for WNV this week in Santa Rosa County and one tested positive for EEEV in Union County, bringing the state's total for EEEV to 64 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Santa Rosa	8/17/09	Equine		1		Alive
Union	8/14/09	Equine			1	Unknown

Sentinel Chickens:

There were seven seroconversions to EEEV in sentinel chickens from Nassau (4), Flagler, Putnam, and Walton counties, and six to HJV in sentinel chickens from Walton (4), Orange, and Alachua 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	
Nassau	8/17/09			3.6		1 EEE
Putnam	8/14/09			18.2		2 EEE
Flagler	8/10/09			20.0		2 EEE
Nassau	8/10/09			11.1		3 EEE
Walton (North)	8/4, 8/5/09			4.4	8.9	2 EEE, 4 HJ
Orange	8/5/09			2.0	2.0	1 EEE, 1 HJ
Alachua	8/5/09				2.9	1 HJ

Live Wild Birds:

Out of 21 live wild birds collected from three counties on August 18-20, two cardinals and one blue jay from Okaloosa and Santa Rosa counties tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Okaloosa	8/18, 8/20/09	2			1 Blue jay, 1 Cardinal	2 out of 9	N/A
Santa Rosa	8/19/09	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, eight reports representing 15 dead birds were received from four counties. Five were identified as crows; none were identified as crows 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/. See the web page for more information: <http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>