

Florida Mosquito-Borne Disease Summary for the Week of October 18-24, 2009

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During the period October 18-24, 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 was one seroconversion to EEEV in a sentinel chicken from Leon County. Seven live wild birds from Santa Rosa, Okaloosa, and Walton counties tested positive for antibodies to EEEV.

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

HJV activity: There were two seroconversions to HJV in sentinel chickens from Putnam and Flagler counties.

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, Miami-Dade, Monroe, Volusia, Columbia, Suwannee, Leon, Clay, Union, Walton, St. Johns, Flagler, and Madison counties are under mosquito-borne illness advisories.

Sentinel Chickens:

There was one seroconversion to EEEV in a sentinel chicken from Leon County, one to WNV in Putnam County, and two to HJV in Putnam and Flagler 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	
Leon	10/12/09			2.4		1 EEE
Putnam	10/8/09		16.7			2 WN
Flagler	10/5/09			7.7		1 HJ
Putnam	9/25/09			7.7	15.4	1 EEE, 2 HJ

Live Wild Birds:

Out of 13 live wild birds collected from two counties on October 5-7 and 26 live wild birds collected from three counties on October 12-15, five cardinals and two blue jays tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Walton	10/15/09	1			1 Cardinal	1 out of 7	N/A
Santa Rosa	10/13-14/09	2			2 Cardinals	2 out of 5	N/A
Okaloosa	10/12/09	1			1 Blue jay	1 out of 8	N/A
Santa Rosa	10/5-7/09	3			2 Cardinals and 1 Blue jay	3 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 eleven dead birds were received from three counties. Four were identified as crows; none were identified as jays 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>