

Florida Mosquito-Borne Disease Summary for the Week of October 4-10, 2009

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During the period October 4-10, 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 two seroconversions to EEEV in sentinel chickens from Putnam and Walton counties. Four live wild birds from Okaloosa, Santa Rosa, and Walton counties tested positive for antibodies to EEEV.

WNV/SLEV activity: A locally-acquired case of WNV disease was confirmed in a Miami-Dade resident. Two WNV-confirmed positive horses were reported from Washington and Gilchrist counties. There were seven seroconversions to WNV in sentinel chickens from Duval (3), Leon (2), Nassau, and St. Johns counties.

HJV activity: There were three seroconversions to HJV in sentinel chickens from Leon, Nassau, and Putnam 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:

Miami-Dade County issued a mosquito-borne illness advisory in response to a locally-acquired human case of WNV. 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:

Two horses tested positive for WNV this week in Washington and Gilchrist counties, bringing the state's total for WNV to 3 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Washington	9/24/09	Equine		1		Alive
Gilchrist	9/8/09	Equine		1		Alive

Sentinel Chickens:

There were two seroconversions to EEEV in sentinel chickens from Putnam and Walton counties, seven to WNV in Duval (3), Leon (2), Nassau, and St. Johns counties, and three to HJV in Leon, Nassau, and Putnam counties. Seroconversion rates are calculated by week and include previously reported results. Two seroconversions to WNV previously reported for Leon County (collection date 9/8/09) were duplicate results, the corrected total number of seroconversions for that week is two (serorate=4.8%).

County	Collection Date	Seroconversion Rates (%)				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Duval	9/28/09		13.0			3 WN
Leon	9/28/09		5.9			2 WN
Walton (North)	9/22/09			2.6		2 EEE
Leon	9/21/09		2.5		2.6	1 WN, 1 HJ

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Nassau	9/21/09				2.9	1 HJ
Putnam	9/18/09			7.7	7.7	1 EEE, 1 HJ
Nassau	9/14/09		5.9			2 WN
St. Johns	9/8/09		1.6		3.2	1 WN, 2 HJ

Live Wild Birds:

Out of 22 live wild birds collected from three counties on September 28-October 1, a cardinal from Santa Rosa, two red-winged blackbirds from Okaloosa, and a cardinal from Walton County tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Okaloosa	10/01/09	2			2 Red-winged blackbirds	2 out of 9	N/A
Santa Rosa	9/29/09	1			1 Cardinal	1 out of 6	N/A
Walton	9/29/09	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, three reports representing seventeen dead birds were received from three counties. None were identified as crows, 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>