

Florida Mosquito-Borne Disease Summary for the Week of September 20-26, 2009

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During the period September 20-26, 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: Two EEEV-confirmed positive horses were reported from Lake and Marion counties. There were two seroconversions to EEEV in sentinel chickens from Alachua County. Four live wild birds from Santa Rosa and Okaloosa County tested positive for antibodies to EEEV.

WNV/SLEV activity: There were ten seroconversions to WNV in sentinel chickens from Duval, Gulf, Leon, Nassau, Putnam, St. Johns, and Walton (4) counties.

HJV activity: There were seven seroconversions to HJV in sentinel chickens from Alachua (3), Leon (2), and Walton (2) counties.

CEV activity: None this week.

DENV activity: CDC confirmed dengue infection in an additional Key West resident, bringing the total number of cases acquired in Key West to three.

Advisories/Alerts:

Monroe, Volusia, Columbia, Suwannee, Leon, Clay, Union, Walton, St. Johns, 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 EEEV this week in Lake and Marion counties, bringing the state's total for EEEV to 69 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Lake	9/15/09	Equine			1	Euthanized
Marion	9/11/09	Equine			1	Alive

Sentinel Chickens:

There were two seroconversions to EEEV in sentinel chickens from Alachua County, ten to WNV in Duval, Gulf, Leon, Nassau, Putnam, St. Johns, and Walton (4) counties, and seven to HJV in Alachua (3), Leon (2), and Walton (2) 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	
Walton (North)	8/31, 9/1			4.0	8.0	1 EEE, 2 HJ
Gulf	9/14/09		3.8			1 WN
Nassau	9/14/09		2.9			1 WN
Leon	9/14/09		2.6			1 WN
St. Johns	9/14/09		1.6			1 WN
Alachua	9/14/09			7.1		1 EEE
Leon	9/14/09				5.3	2 HJ

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Duval	9/12/09		4.0			1 WN
Putnam	9/11/09		7.7			1 WN
Alachua	9/8/09			2.9	5.7	1 EEE, 2 HJ
Alachua	9/1/09				2.9	1 HJ
Walton (North)	8/27/09		16.0			4 WN

Live Wild Birds:

Out of 21 live wild birds collected from three counties on September 7-10 and 21 collected September 14-17, two cardinals from Okaloosa County and two from Santa Rosa County tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi	Flavi	Species	EEEV Rate	Flavi Rate
Santa Rosa	9/15/09	1			1 Cardinal	1 out of 4	N/A
Santa Rosa	9/09/09	1			1 Cardinal	1 out of 6	N/A
Okaloosa	9/07/09	2			2 Cardinals	2 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, three reports representing four dead birds were received from two 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>