

## Florida Mosquito-Borne Disease Summary for the Week of August 2-8, 2009

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During the period August 2-8, 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:** Six EEEV-confirmed positive horses were reported from Volusia (2), Walton, Nassau, Marion, and St. Johns counties. There were sixteen seroconversions to EEEV in sentinel chickens from Flagler (4), St. Johns (4), Orange (4), Putnam (3), and Nassau counties. Five live wild birds captured from Okaloosa and Santa Rosa counties tested positive for antibodies to EEEV.

**WNV/SLEV activity:** None this week.

**HJV activity:** There were eleven seroconversions to HJV in sentinel chickens from Walton (3), Nassau (3), Leon (2), Alachua, Duval, and Orange counties.

**CEV activity:** None this week.

### Advisories/Alerts:

Clay, Columbia, Leon, Madison, 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:

Six horses tested positive for EEEV this week in Volusia (2), Walton, Nassau, Marion, and St. Johns counties, bringing the state's total to 59 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
St. Johns	7/27/09	Equine			1	Euthanized
Volusia	7/22, 7/26	Equine			2	Euthanized
Walton	7/24/09	Equine			1	Euthanized
Nassau	7/23/09	Equine			1	Euthanized
Marion	7/10/09	Equine			1	Euthanized

### Sentinel Chickens:

There were sixteen seroconversions to EEEV in sentinel chickens from Flagler (4), St. Johns (4), Orange (4), Putnam (3), and Nassau counties, and eleven seroconversions to HJV in sentinel chickens from Walton (3), Nassau (3), Leon (2), Alachua, Duval, and Orange 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	
Flagler	7/27/09			23.1		3 EEE
Nassau	7/27/09			6.5		2 EEE
St. Johns	7/27/09			5.8		3 EEE
Orange	7/27/09			3.0		3 EEE
Putnam	7/24/09			7.1		1 EEE
Leon	7/21/09				2.5	1 HJ
Flagler	7/20/09			7.7		1 EEE
St. Johns	7/20/09			3.9		2 EEE

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Orange	7/20/09			2.0		2 EEE
Alachua	7/20/09				5.56	1 HJ
Duval	7/20/09				3.70	1 HJ
Nassau	7/20/09				10.0	3 HJ
Walton (South)	7/20/09		1.3		2.8	2 HJ, 1 WNV
Putnam	7/17/09			15.4		2 EEE
Orange	7/16/09			1.0	1.0	1 EEE, 1 HJ
Leon	6/29/09				2.7	1 HJ
Walton (South)	6/29/09				1.3	1 HJ

**Live Wild Birds:**

Out of 24 live wild birds collected from three counties on July 27-30, three cardinals and two blue jays 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	7/27, 7/29, 7/30	3			2 Cardinals, 1 Blue Jay	3 out of 10	N/A
Santa Rosa	7/28	2			1 Cardinal, 1 Blue Jay	2 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, fifteen reports representing sixteen dead birds were received from four counties. Two were identified as raptors; none were identified as crows or jays. 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/](http://www.myfwc.com/bird/). See the web page for more information: <http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>