

## Florida Mosquito-Borne Disease Summary for the Week of July 19-25, 2009

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During the period July 19-25, 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:** Four EEEV-confirmed positive horses were reported from Clay, Columbia (2), and Union counties. There were fourteen seroconversions to EEEV in sentinel chickens from St. Johns (5), Walton (4), Nassau (3), Orange, and Volusia counties. One mosquito pool (*Culiseta melanura*) from Walton County tested positive for EEEV. Ten live wild birds captured from Okaloosa, Santa Rosa, and Walton counties tested positive for antibodies to EEEV.

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

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

**CEV activity:** None this week.

### Advisories/Alerts:

Walton, Volusia, Columbia, Madison, Suwannee, Leon, Clay, and Union counties are under mosquito-borne illness advisories. No other counties are currently under mosquito-borne illness alert or advisory.

### Veterinary Cases:

Four horses tested positive for EEEV this week in Clay, Columbia, and Union counties, bringing the state's total to 47 for 2009.

County	Onset Date	Species	SLE	WNV	EEE	Status
Clay	7/8/09	Equine			1	Dead
Columbia	7/14, 7/16	Equine			2	Euthanized
Union	7/16/09	Equine			1	Euthanized

### Sentinel Chickens:

There were fourteen seroconversions to EEEV in sentinel chickens from St. Johns (5), Walton (4), Nassau (3), Orange, and Volusia counties and ten to HJV in Walton (3), Duval (2), Orange (2), Gulf, Leon, and Nassau 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	
St. Johns	7/13/09			3.45		2 EEE
Walton (South)	7/13/09			1.33		1 EEE
Duval	7/7/09				3.45	1 HJ
Walton (South)	7/7/09			3.03	3.03	2 EEE, 2 HJ
Nassau	7/6/09			8.33	2.78	3 EEE, 1 HJ
St. Johns	7/6/09			3.48		4 EEE
Volusia	7/6/09			3.33		1 EEE
Walton (North)	6/30/09			10.34		3 EEE
Gulf	6/29/09			5.00	5.00	1 EEE, 1 HJ
St. Johns	6/29/09			3.51		2 EEE

County	Collection Date	Seroconversion Rates				By County, Week and Virus
		SLEV	WNV	EEEV	HJV	
Duval	6/29/09				3.45	1 HJ
Orange	6/29/09			0.92	0.92	1 EEE, 1 HJ
Walton (South)	6/29/09				1.25	1 HJ
Orange	6/25/09			2.70	0.90	3 EEE, 1 HJ
Nassau	6/13/09			2.94		1 EEE

**Mosquito Pools:**

EEEV was isolated from a pool (*Culiseta melanura*) collected on 6/10 in Walton County.

County	Collection Date	Result	Species
Walton	6/10/09	EEEV	<i>Cs. melanura</i>

**Live Wild Birds:**

Out of 23 live wild birds collected from three counties on July 13-16, six cardinals and four blue jays from Okaloosa, Santa Rosa, and Walton counties tested positive for antibodies to EEEV.

County	Collection Date	EEEV	EEEV-Flavi*	Flavi	Species	EEEV Rate	Flavi Rate
Walton (North)	7/16/09	1			Cardinal	1 out of 7	N/A
Santa Rosa	7/14/09	6			4 Cardinals, 2 Blue jays	6 out of 7	N/A
Okaloosa	7/13/09	2			2 Blue jays, 1 Cardinal	3 out of 9	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, five reports representing fourteen dead birds were received from four counties. One was identified as a jay; 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/](http://www.myfwc.com/bird/). See the web page for more information: <http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>