

**Florida Arbovirus Surveillance**  
**Week 6: February 7-13, 2010**

Arbovirus surveillance in Florida includes endemic viruses West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and imported viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). During the period February 7-13, 2010, the following arboviral activity was recorded in Florida:

**EEEV activity:** One live wild bird in Santa Rosa County tested positive for antibodies to EEEV. In 2010, positive samples from three sentinel chickens and three live wild birds have been received. To date, four of Florida's 67 counties have reported EEEV activity.

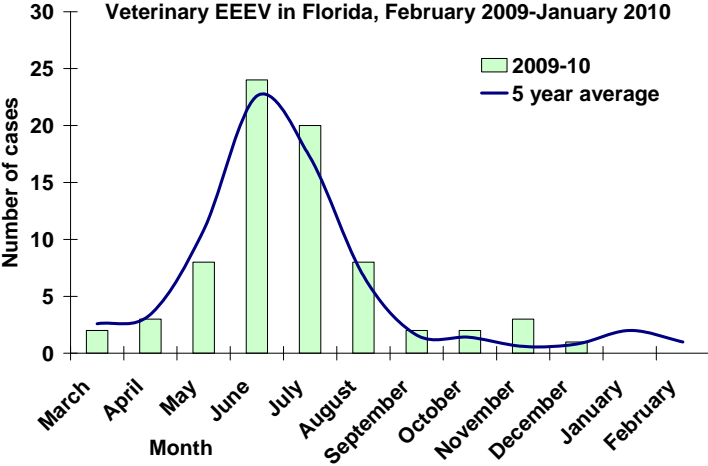
**WNV activity:** Eight sentinel chickens in Hillsborough (6) and Sarasota (2) counties tested positive for antibodies to WN, three with collection dates in 2009. In 2010, positive samples from five sentinel chickens have been received from two counties.

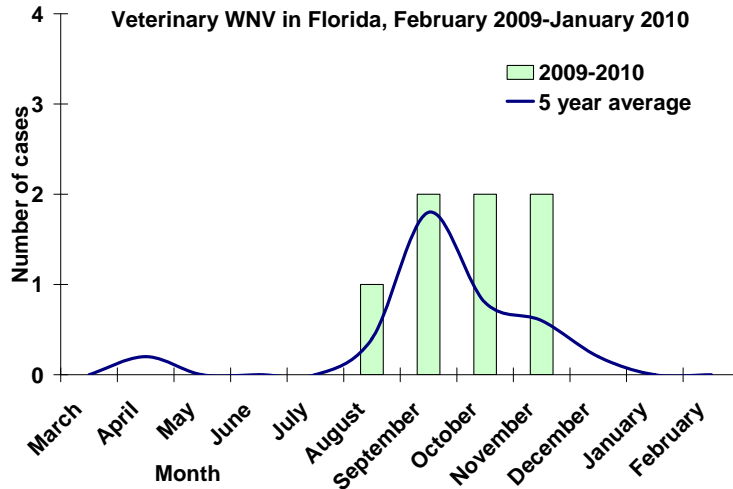
**HJV activity:** No activity has been reported.

**Advisories/Alerts:** Monroe County is under a mosquito-borne illness advisory.

**Veterinary Cases**

No positive horses were reported this week.

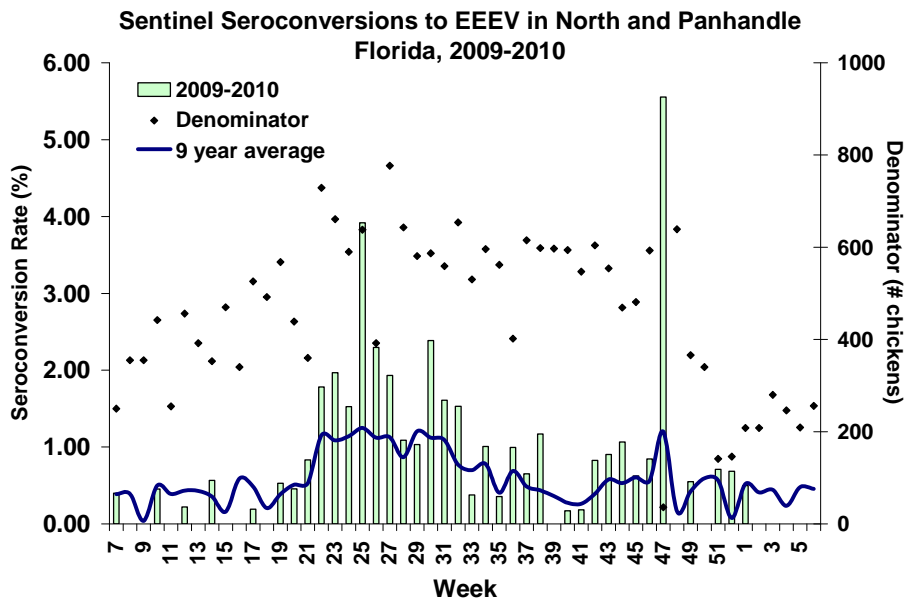


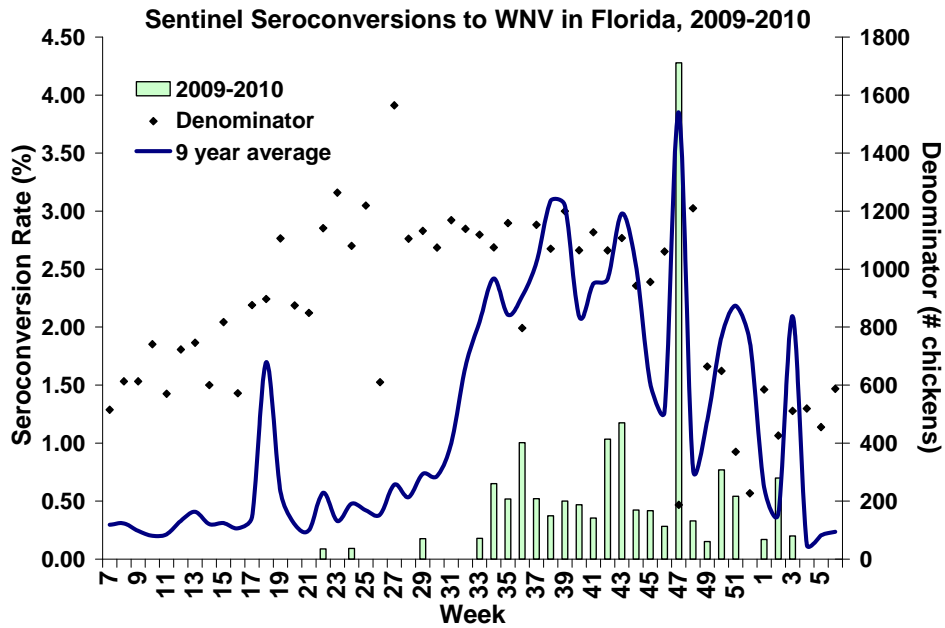


### Sentinel Chickens

There were eight seroconversions to WNV in sentinel chicken from Hillsborough (6) and Sarasota (2) counties. Three will be included in 2009 data. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				County Totals	
		SLEV	WNV	EEEV	HJV	Week	YTD
Hillsborough	01/19/10		1.4			1 WNV	4 WNV (2010)
	01/12/10		2.5			3 WNV	
	12/29/09		1.4			1 WNV	15 WNV, 1 EEE (2009)
	12/15/09		1.4			1 WNV	
Sarasota	01/08/10		2.5			1 WNV	1 WNV (2010)
	12/28/09		2.5			1 WNV	5 WNV, 2 EEE (2009)





### Live Wild Birds

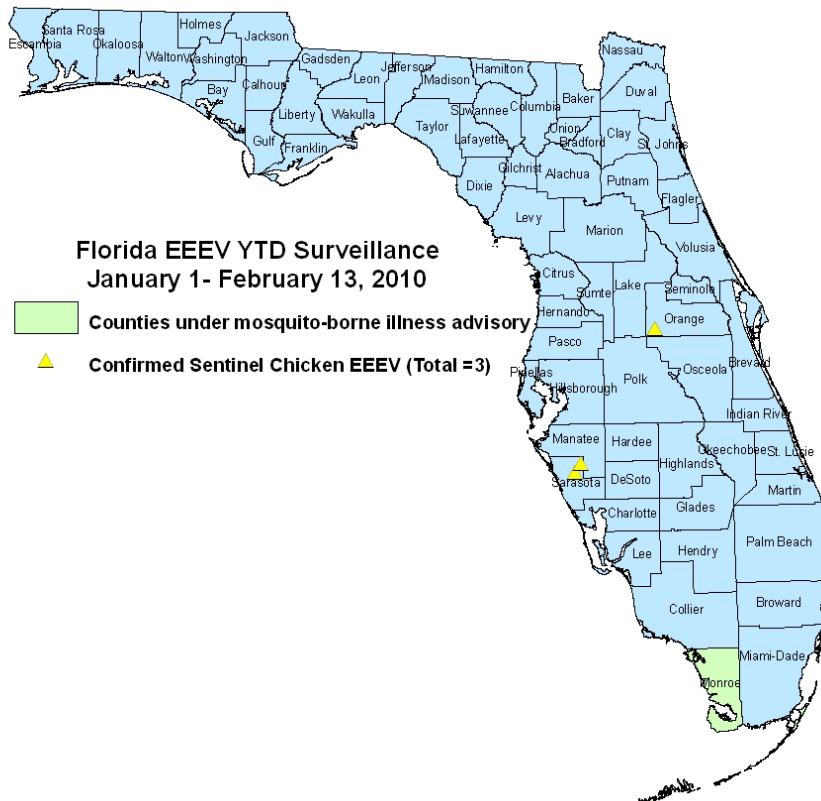
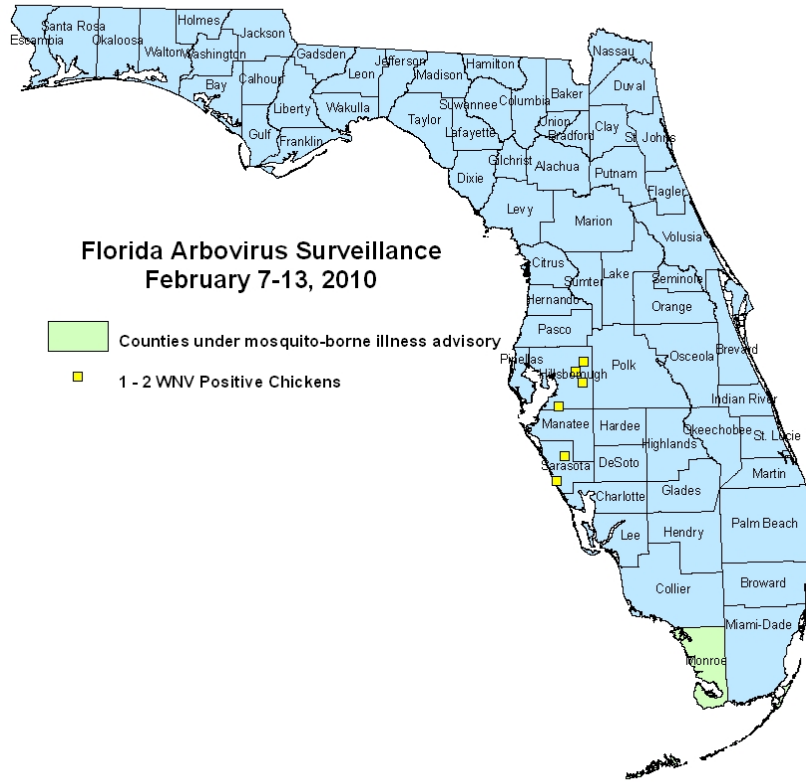
Out of 36 live wild birds collected from three counties on February 1-5, 2010, a blue jay tested positive for antibodies to EEEV.

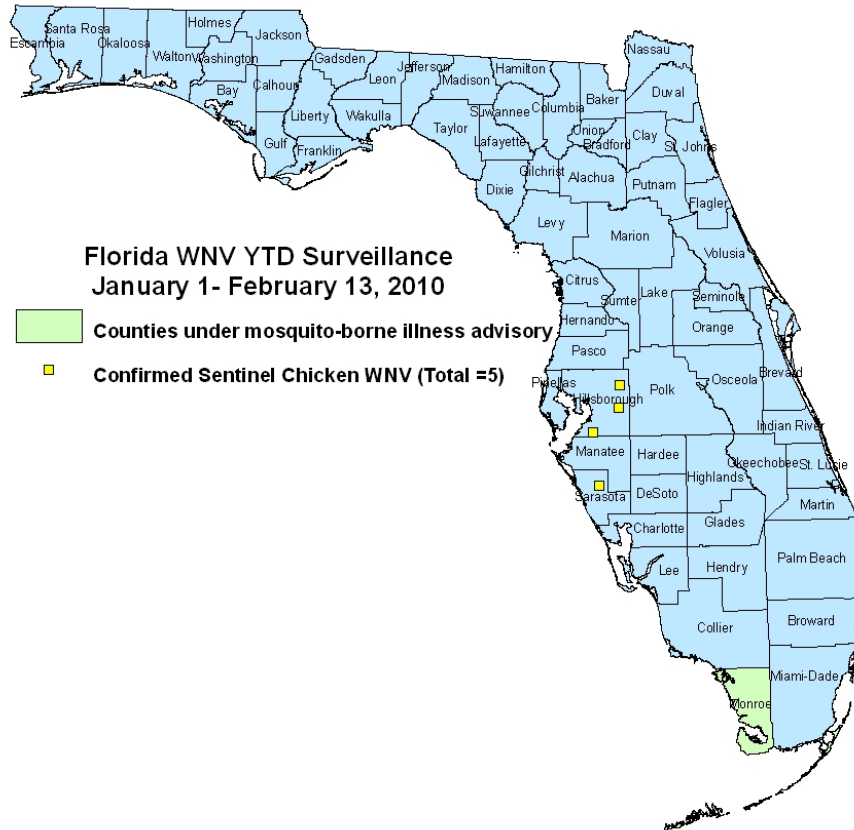
County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Santa Rosa	02/02/10	1		Blue Jay	1 out of 12	N/A	1 EEE

### Dead Birds

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, six reports representing 26 dead birds were received from six counties. One was identified as a jay, and one as a raptor. None were identified as crows. In 2010, 34 reports representing a total of 121 dead birds (0 crows, 1 jay, 9 raptors, 111 others) have been received from 17 of Florida's 67 counties. 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/).

## Maps





**YTD Arbovirus Activity by County**

County	Arbovirus Activity
Hillsborough	WNV : 4 sentinels (1/12 x4, 1/19)
Okaloosa	EEE : 2 live wild birds (1 house sparrow 1/4, 1 blue jay 1/27)
Orange	EEE : 1 sentinel (1/7)
Santa Rosa	EEE: 1 live wild bird (1 blue jay 2/2)
Sarasota	EEE: 2 sentinels (1/5, 1/11) WNV : 1 sentinel (1/8)

**Acknowledgements and Data Sources**

Contributors: Elizabeth Radke, MPH, Kristina Weis, PhD, Danielle Stanek, DVM, and Carina Blackmore, DVM, PhD.

Data is provided by county health departments, Department of Health Laboratories, Department of Agriculture and Consumer Services, mosquito control agencies, Florida Fish and Wildlife Conservation Commission, medical providers and veterinarians. Equine cases are determined by the Department of Agriculture and Consumer Services. Wild captured bird information is provided by the John A. Mulrennan Public Health Entomology Research and Education Center.