

Florida Arbovirus Surveillance
Week 17: April 25-May 1, 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 exotic viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). During the period April 25-May 1, 2010, the following arboviral activity was recorded in Florida:

DENV activity: No locally-acquired cases of dengue were reported this week. In 2010, there has been one locally-acquired case reported from Key West (Monroe County).

EEEV activity: One live wild bird in Santa Rosa County tested positive for antibodies to EEEV. In 2010, positive samples from nine sentinel chickens and four live wild birds have been received from five of Florida’s 67 counties.

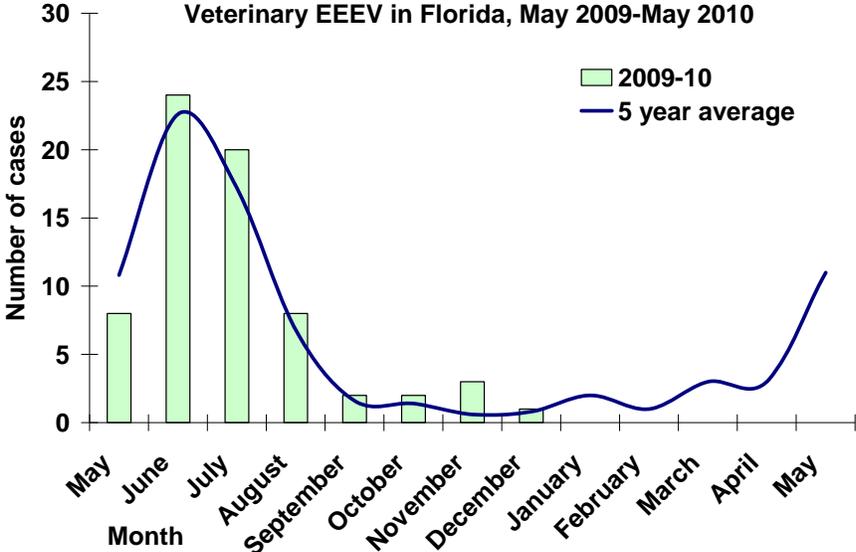
WNV activity: One sentinel chicken from Lee County tested positive for antibodies to WNV. In 2010, positive samples from 28 sentinel chickens have been received from five counties.

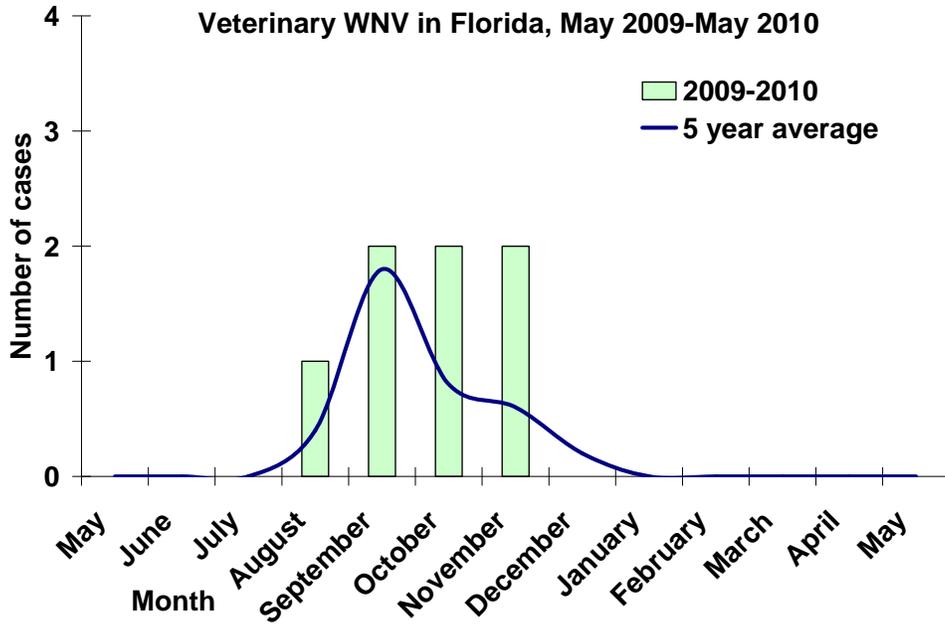
HJV activity: No HJV activity was reported this week. In 2010, positive samples from two sentinel chickens have been received from one county.

Advisories/Alerts: Monroe County is currently under a mosquito-borne disease advisory. No other counties are currently under mosquito-borne disease advisory or alert.

Veterinary Cases

No positive horses were reported this week.

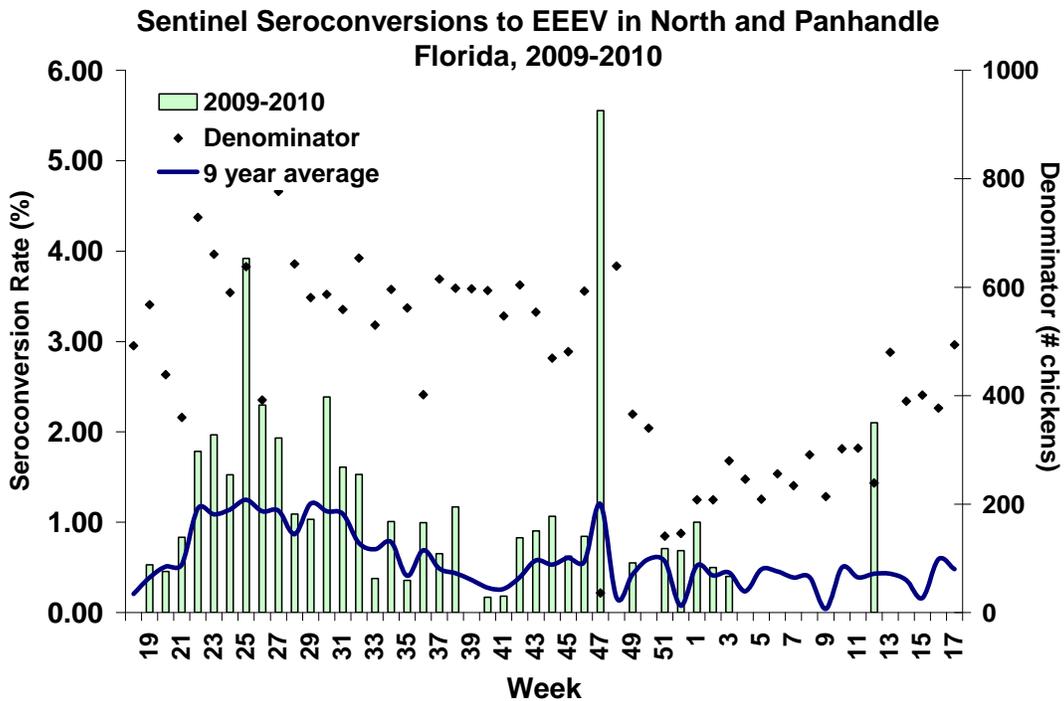


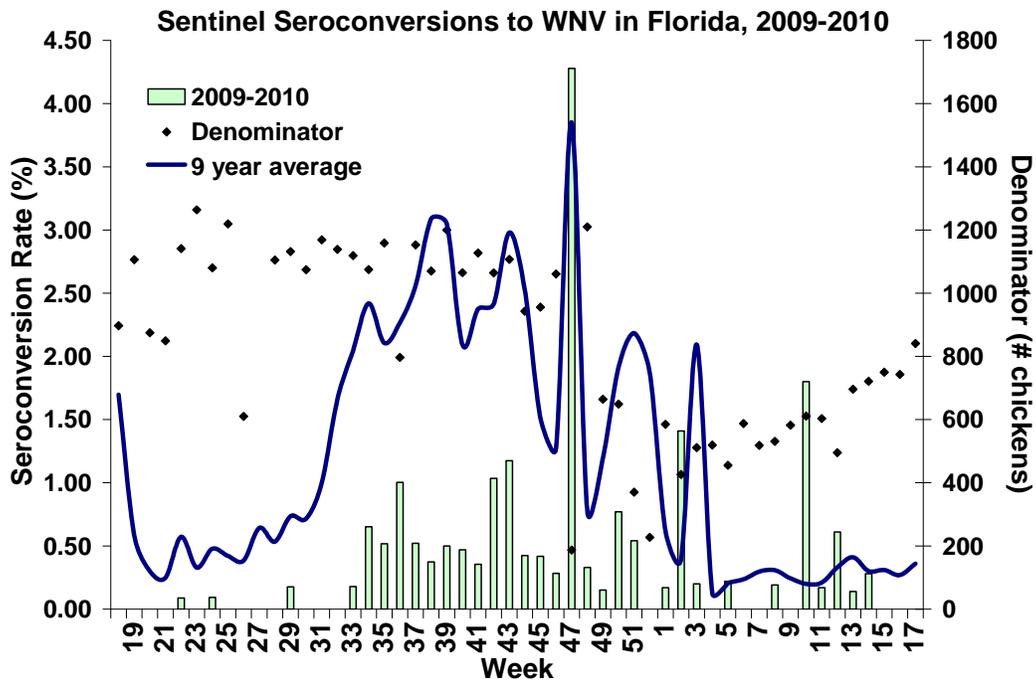


Sentinel Chickens

There was one seroconversion to WNV in a sentinel chicken from Lee County. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				County Totals	
		SLEV	WNV	EEEV	HJV	Week	YTD
Lee	03/30/2010		1.8			1 WNV	1 WNV





Live Wild Birds

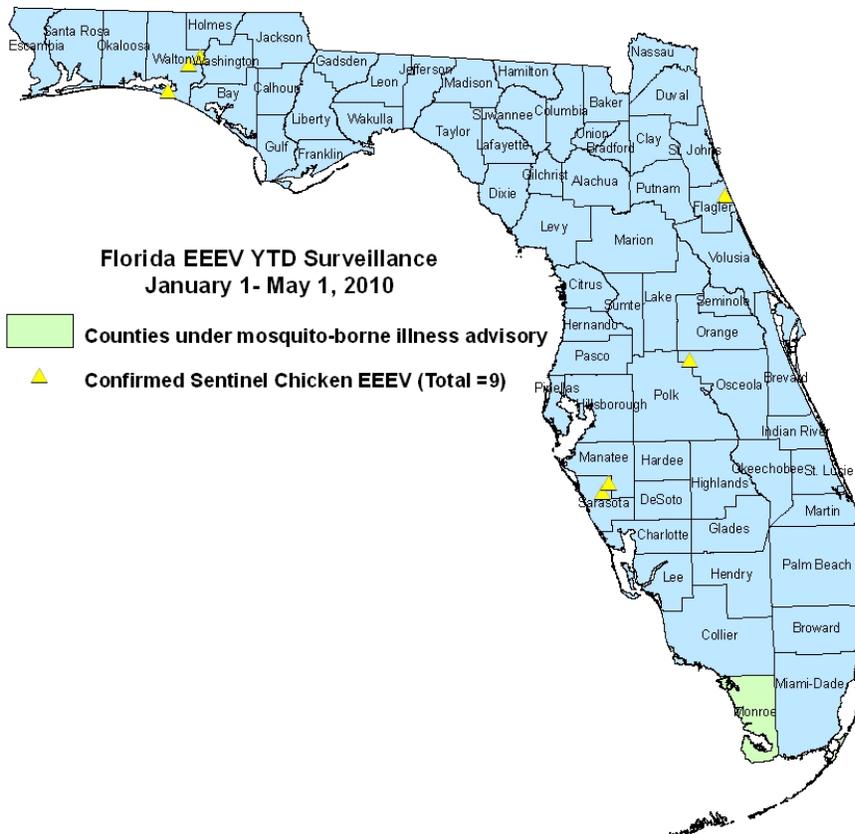
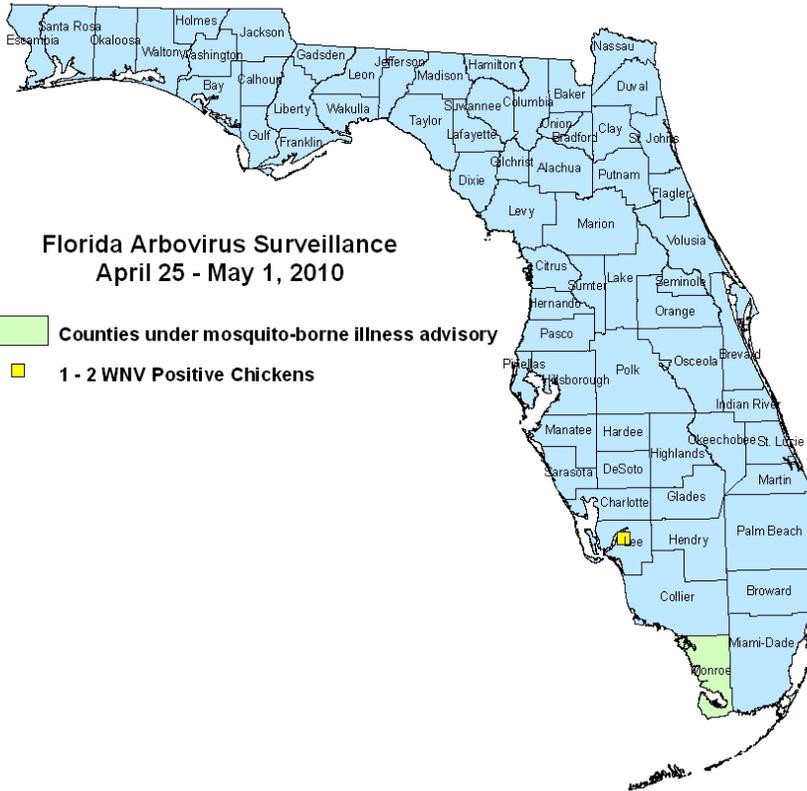
Out of 22 live wild birds collected from three counties on April 12-23, 2010, one blue jay tested positive for antibodies to EEEV.

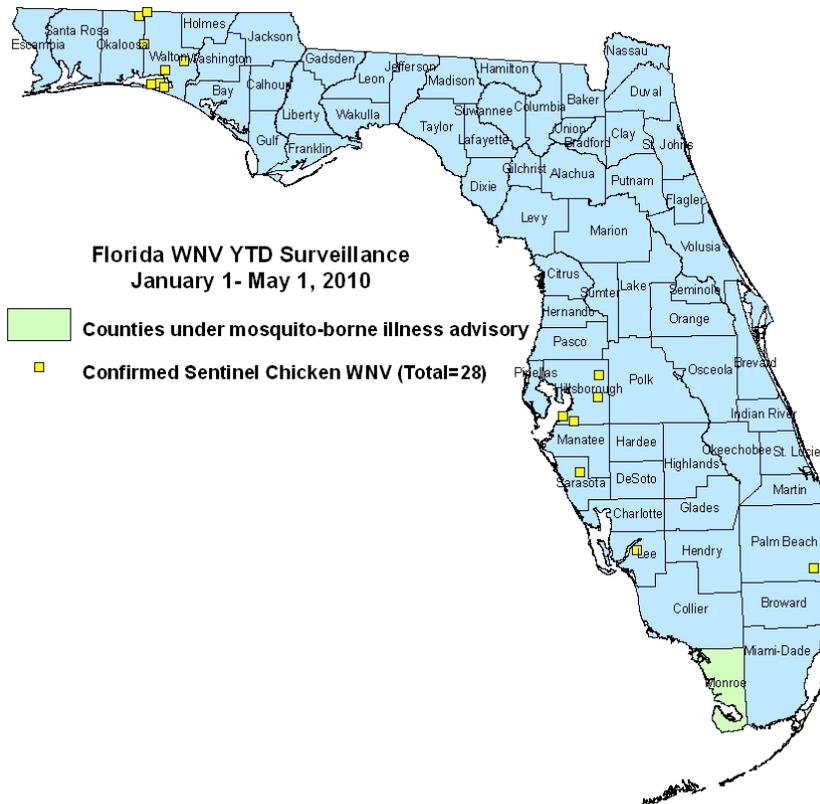
County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Santa Rosa	04/13/2010	1		Blue Jay	1 out of 9	N/A	3 EEE

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, ten reports representing 31 dead birds were received from six counties. Two were identified as jays and one as a raptor, none were identified as crows. In 2010, 103 reports representing a total of 353 dead birds (1 crow, 7 jays, 17 raptors, 328 others) have been received from 35 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/.

Maps





YTD Arbovirus Activity by County

County	Arbovirus Activity
Flagler	EEE : 1 sentinel (3/22)
Hillsborough	WNV : 10 sentinels (1/12, 1/19, 2/22, 3/9, 3/22)
Lee	WNV: 1 sentinel (3/30)
Monroe	DENV: 1 human (4/5)
Okaloosa	EEE : 2 live wild birds (1 house sparrow 1/4, 1 blue jay 1/27)
Orange	EEE : 1 sentinel (1/7)
Palm Beach	WNV: 1 sentinel (3/15)
Santa Rosa	EEE : 3 live wild birds (3 blue jays 2/2, 3/22, 4/13)
Sarasota	EEE : 2 sentinels (1/5, 1/11) WNV : 1 sentinel (1/8)
Walton	EEE : 5 sentinels (1/19, 3/22) WNV : 15 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8) HJV : 2 sentinels (3/22)

Acknowledgements and Data Sources

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

For more surveillance information, please see the DOH website at:
<http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html>

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.