



Florida Arbovirus Surveillance
Week 6: February, 06 – February 12, 2011

Arbovirus surveillance in Florida includes endemic mosquito-borne 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). Malaria, a non-viral mosquito-borne disease is also included. During the period February 06, – February 12, 2011, the following arboviral activity was recorded in Florida:

DENV activity: One case of dengue associated with Key West with onset date in November 2010 was reported this week. In 2010, there have been 66 locally-acquired cases in Key West, one in Broward County, and one in Miami-Dade County.

EEEV activity: No EEEV activity was reported this week.

WNV activity: Three sentinel chickens in Hillsborough County tested positive for antibodies to WNV.

SLEV activity: No SLEV activity was reported this week.

HJV activity: No HJV activity was reported this week.

Advisories/Alerts: Miami-Dade County is under mosquito-borne illness advisory.

Year to Date Human Case Summary

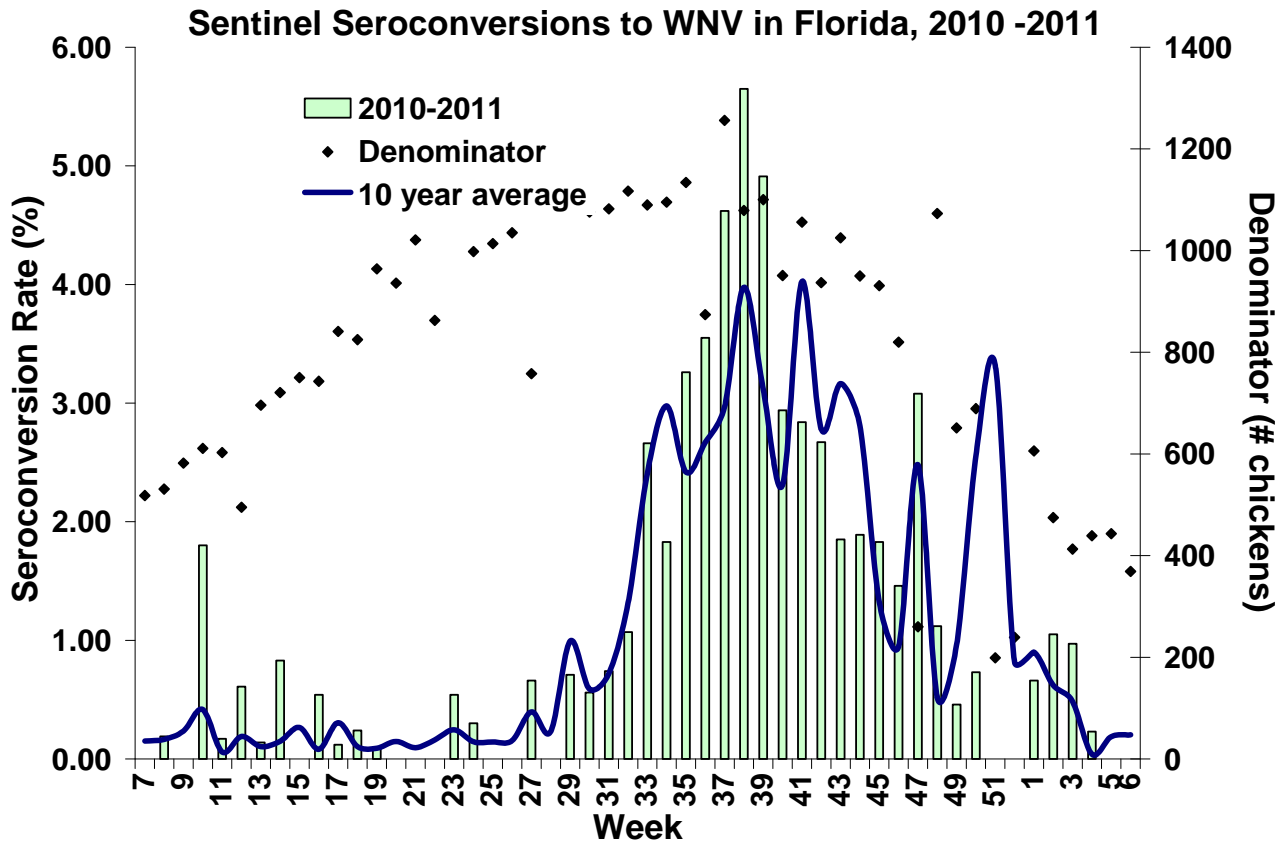
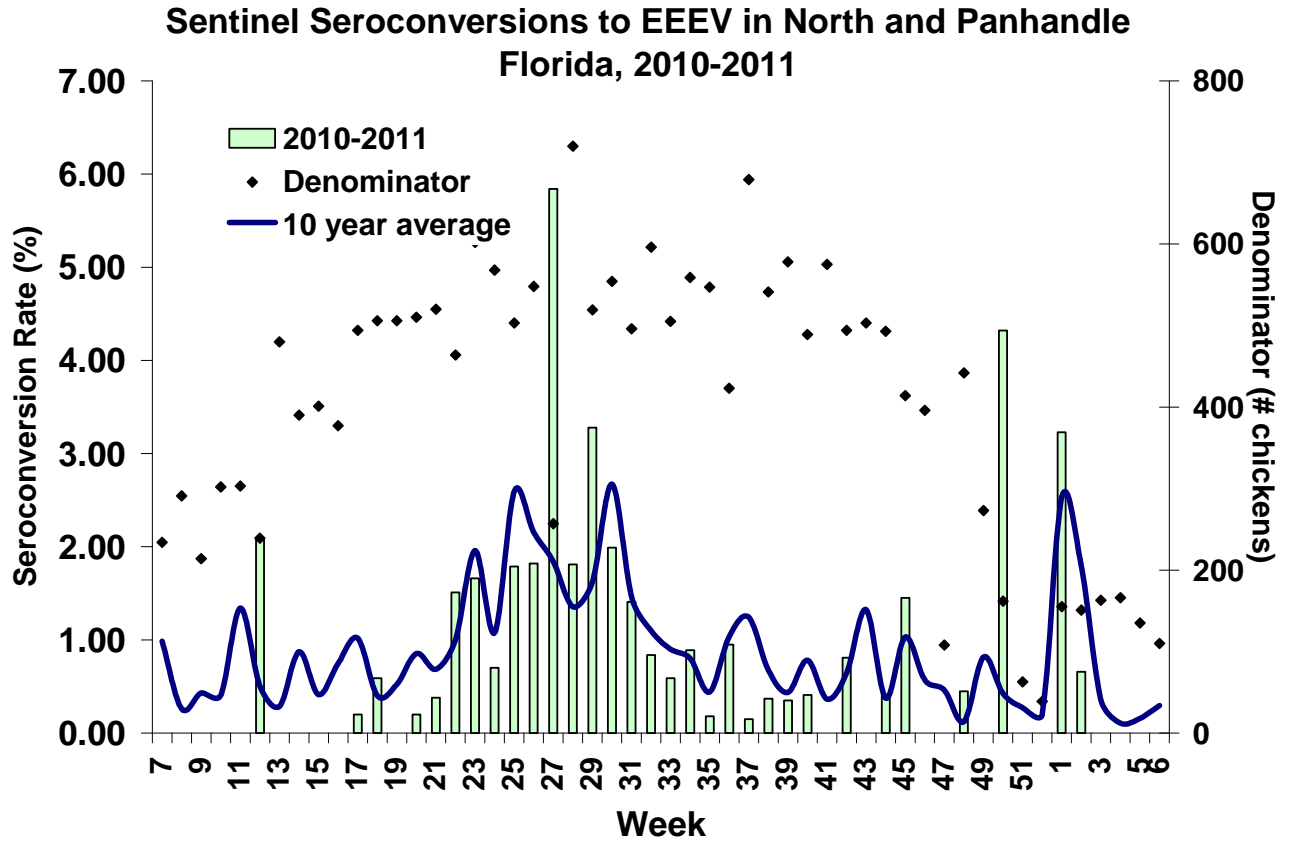
Imported Dengue: One case of dengue with onset in 2011 has been reported in an individual with travel history to a dengue endemic country in the two weeks prior to onset. Country of origin was India. County reporting case was Pasco.

Imported Malaria: Ten imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Ethiopia, Guyana, Haiti (5) India, Liberia and Mexico. Counties reporting cases were: Broward (2), Hillsborough, Indian River, Miami-Dade (2), Orange, Palm Beach (2) and Pinellas.

Sentinel Chickens

Three sentinel chickens in Hillsborough County tested positive for antibodies to WNV. 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	01/18/11		3.70			3 WNV	8 WNV



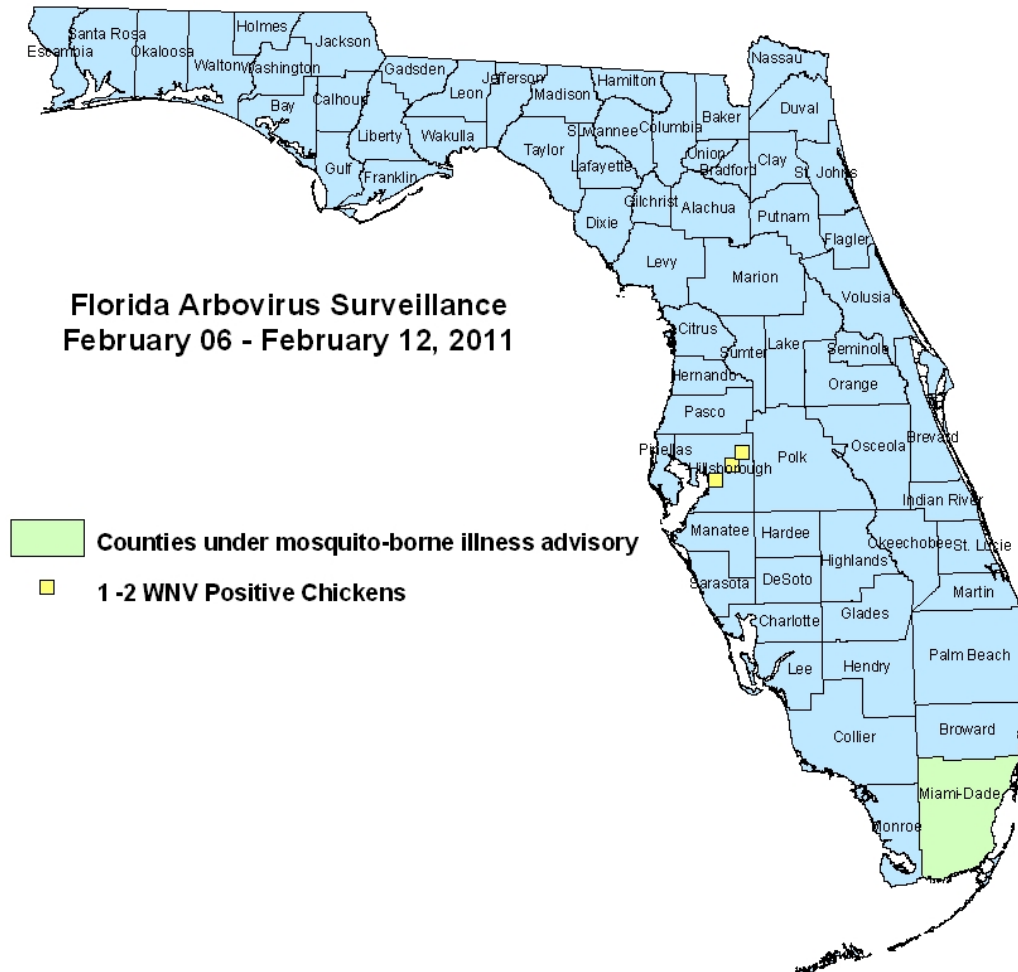
Live Wild Birds

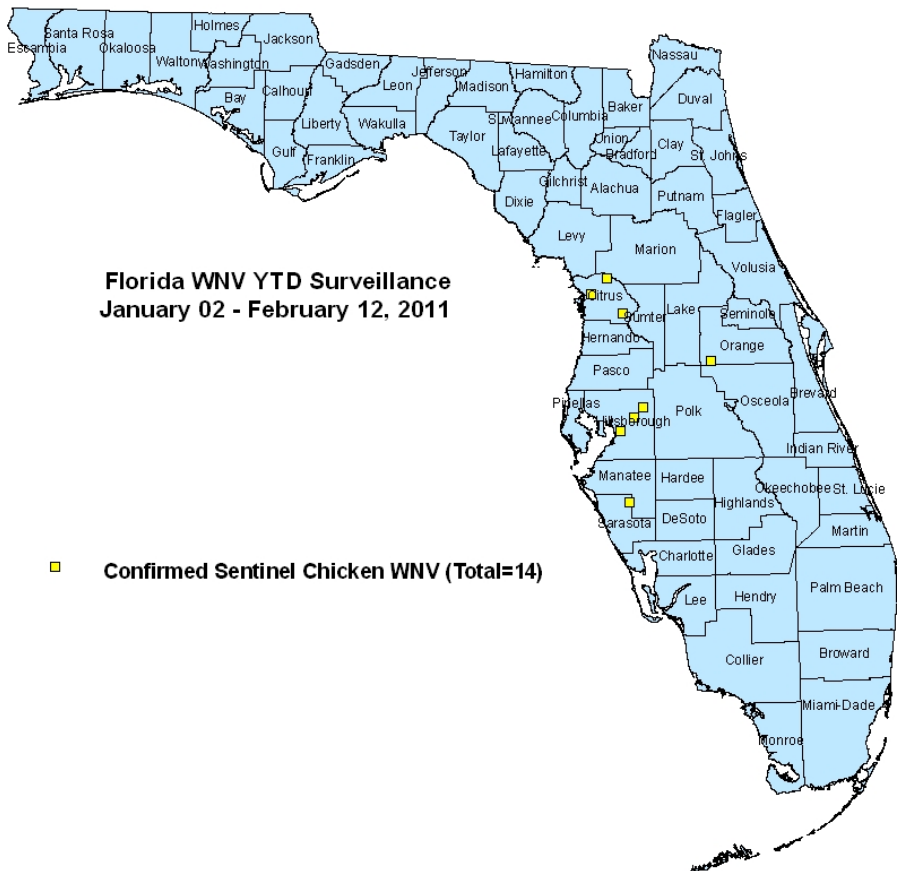
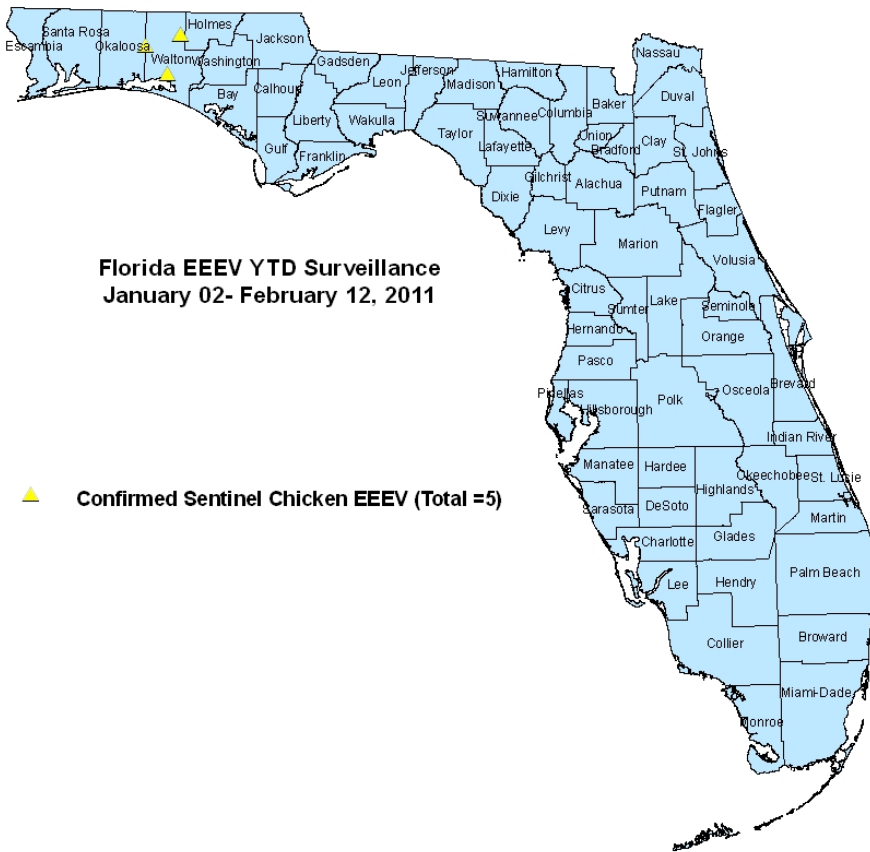
No positive live wild birds were reported this week.

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, 7 reports representing 22 dead birds were received from four counties. Three birds were identified as raptors; none were identified as crows or jays. In 2011, forty-nine reports representing a total of 183 dead birds (0 crows, 0 jays, 28 raptors, 155 others) were received from 21 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
Citrus	WNV: 3 sentinels (1/3, 1/11)
Hillsborough	WNV : 8 sentinels (1/4, 1/11, 1/18, 1/25)
Okaloosa	EEE : 2 live wild birds (1 blue jays 1/10 and 1 cardinal 1/ 11)
Orange	WNV : 2 sentinel (1/3, 1/18)
Santa Rosa	EEE: 1 live wild bird (1 house sparrow 1/05)
Sarasota	WNV: 1 sentinel (1/4)
Walton	EEE : 5 sentinels (1/6) ; 2 live wild birds (2 cardinals 1/14, 1/21) HJV: 1 sentinel (1/14)

Acknowledgements and Data Sources

Contributors: Leena Anil, Ph.D., Danielle Stanek, DVM, and Carina Blackmore, DVM, Ph.D., DOH Bureau of Environmental Public Health Medicine; Lillian Stark, Ph.D. and Valerie Mock, DOH Bureau of Laboratories.

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.