



Florida Arbovirus Surveillance

Week 1: January 2 - January 8, 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 January 2 - January 8, 2011, the following arboviral activity was recorded in Florida:

DENV activity: No new cases of dengue associated with Key West were reported this week.

EEEV activity: Six sentinel chickens (sampled in December 2010) in Walton County tested positive for antibodies to EEEV.

WNV activity: Four sentinel chickens (sampled in December 2010) in Lee, Manatee, Orange and Sarasota counties tested positive for antibodies to WNV.

SLEV activity: No SLEV activity was reported this week.

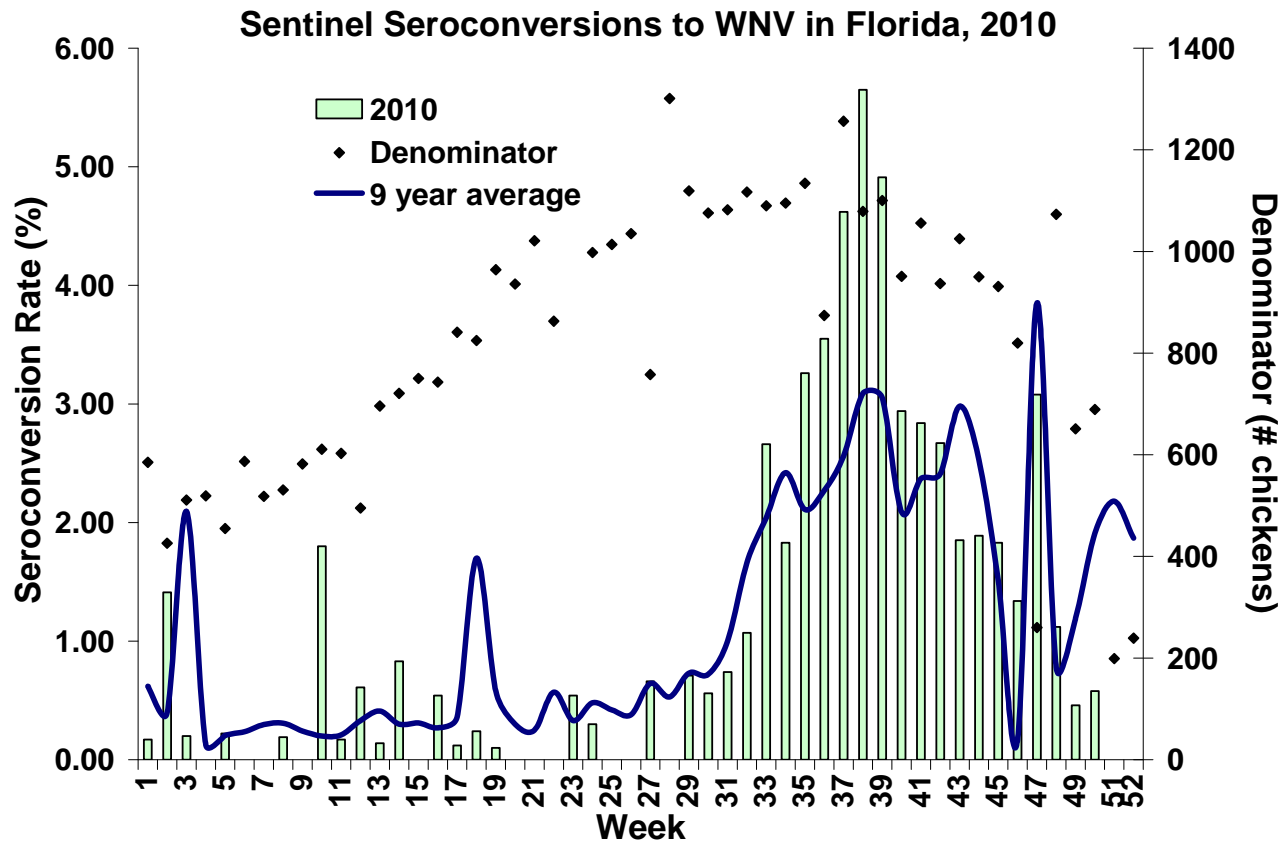
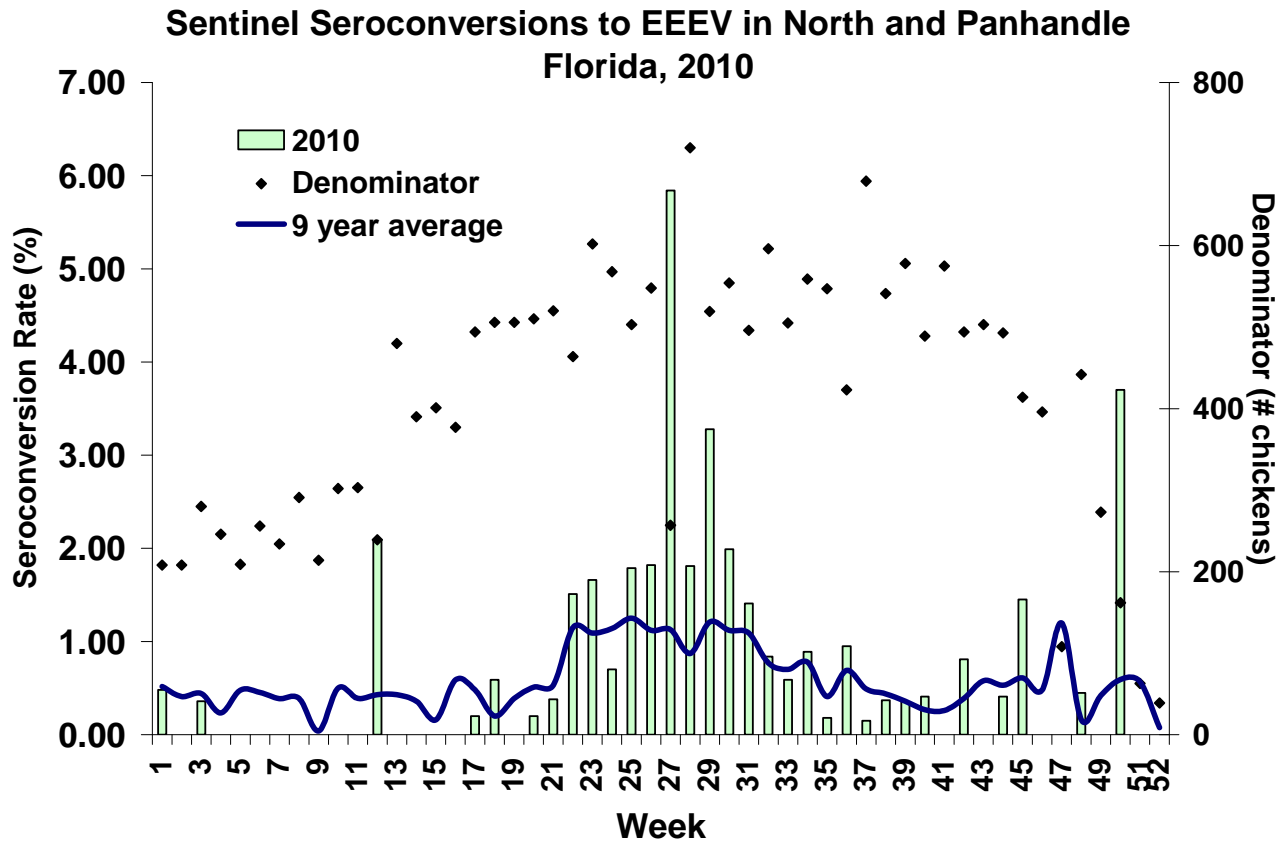
HJV activity: One sentinel chicken (sampled in December 2010) in Walton County tested positive for antibodies to HJV.

Advisories/Alerts: Brevard, Hillsborough, and Monroe counties are under mosquito-borne illness alerts. Clay, Duval, Flagler, Highlands, Indian River, Jackson, Lake, Leon, Miami-Dade, Osceola, Putnam, Walton, Wakulla, and Washington counties are under mosquito-borne illness advisories.

Sentinel Chickens

Sentinel chickens sampled in December 2010 tested positive for arboviruses. Six sentinel chickens in Walton County tested positive for antibodies to EEEV. Four sentinel chickens in Lee, Manatee, Orange and Sarasota counties tested positive for antibodies to WNV. One sentinel chicken in Walton County tested positive for antibodies to HJV. These chickens will be included in 2010 data. Seroconversion rates are calculated by week and include previously reported results.

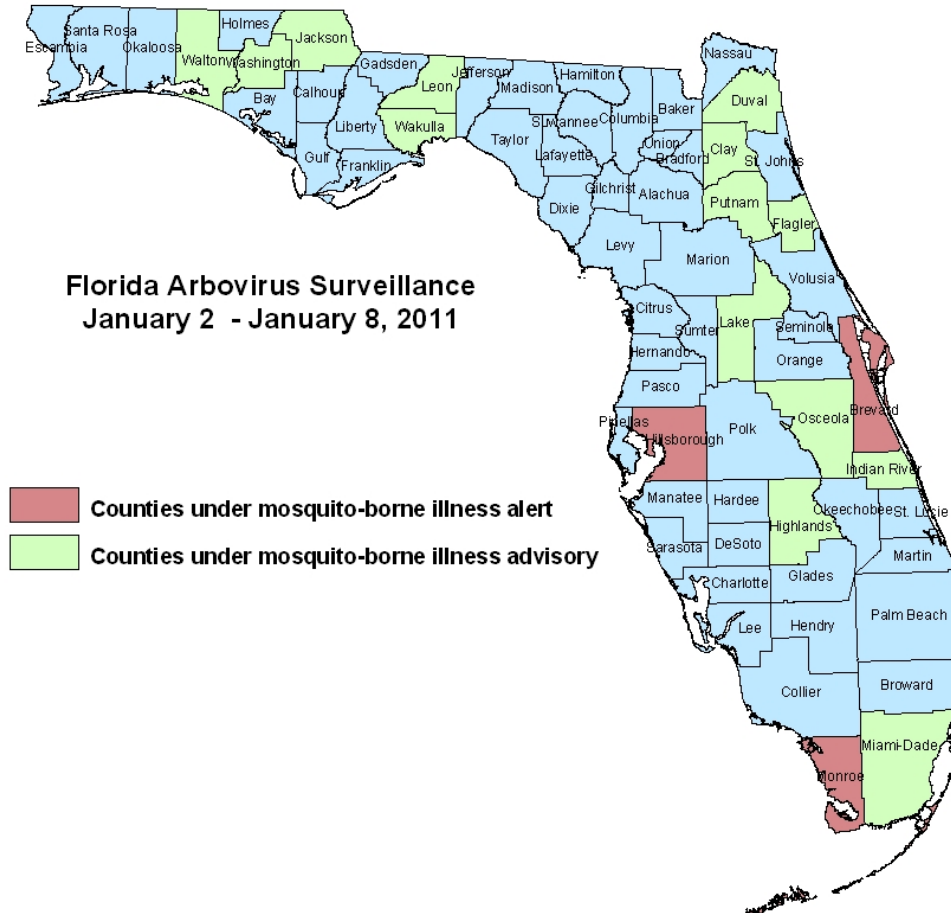
County	Collection Date	Seroconversion Rates (%)				County Totals	
		SLEV	WNV	EEEV	HJV	Week	YTD - 2010
Lee	12/13/10		1.59			1WNV	56 WNV
Manatee	12/13/10		1.67			1WNV	20 WNV
Orange	12/13/10		2.22			1WNV	44 WNV, 23 EEE, 23 HJV
Sarasota	12/13/10		1.00			1 WNV	11 WNV, 3 EEE
Walton (North)	12/09/10				4.35	1 HJV	51 WNV, 35 EEE, 18 HJV
Walton (North)	12/14/10,12/17/10			20.69		6 EEEV	51 WNV, 41 EEE, 18 HJV



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, seven reports representing 20 dead birds were received from seven counties. None were identified as crows, jays, or raptors. In 2011, seven reports representing a total of 20 dead birds (0 crows, 0 jays, 0 raptors, 20 others) were received from seven 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



Acknowledgements and Data Sources

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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.