

Florida Arbovirus Surveillance

Week 2: January 8 - January 14, 2012

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 8 - January 14, 2012, the following arboviral activity was recorded in Florida:

DENV activity: No new cases of locally acquired dengue were reported this week.

EEEV activity: Two equine cases of EEE were reported in Levy County.

WNV activity: Three sentinel chickens collected in December and November 2011 from Hillsborough and Lee counties tested positive for antibodies to WNV.

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

HJV activity: No HJV activity was reported this week.

Advisories/Alerts: Hillsborough and Levy counties are under mosquito-borne illness advisory. The Bahamas has also issued an alert due to high dengue activity:

<http://wwwnc.cdc.gov/travel/notices/outbreak-notice/dengue-bahamas.htm>

Year to Date Human Case Summary

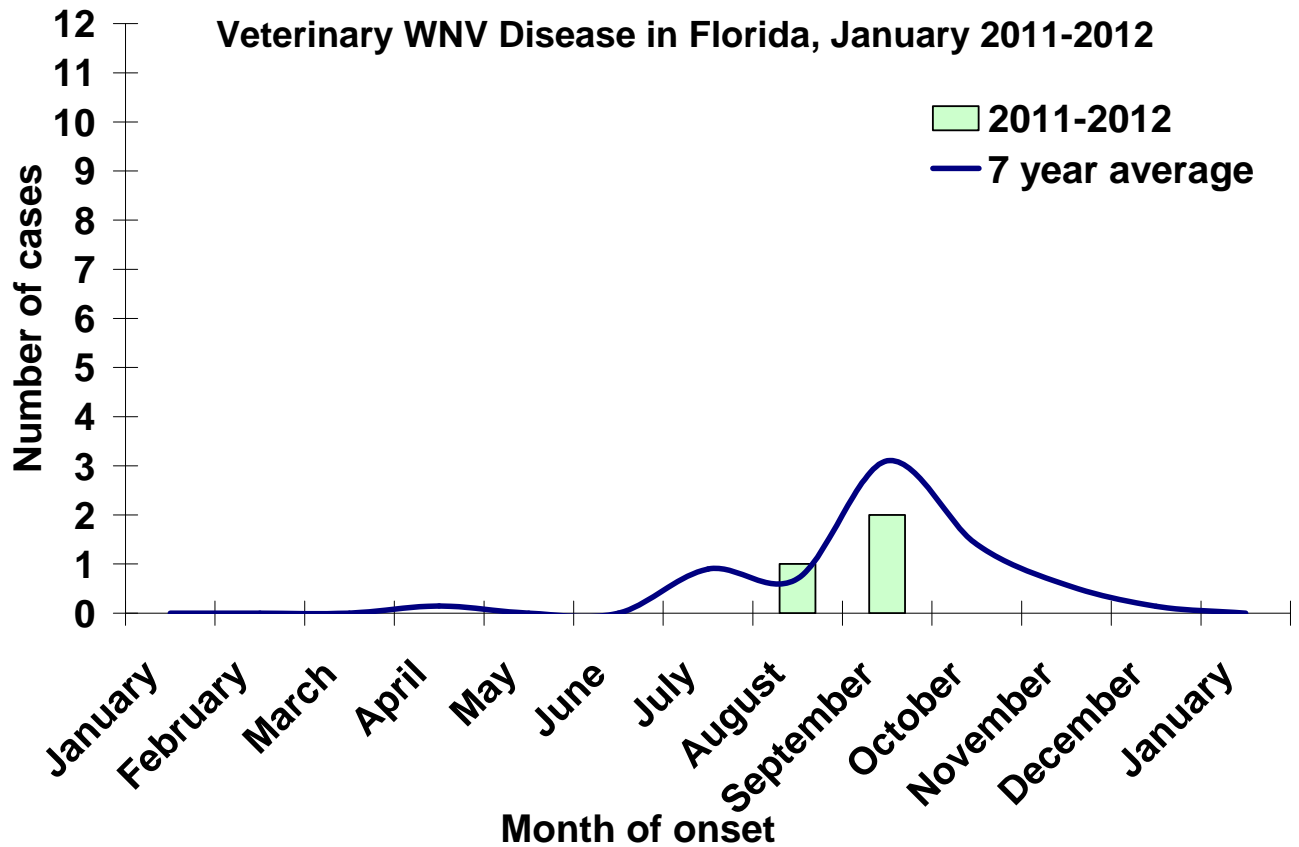
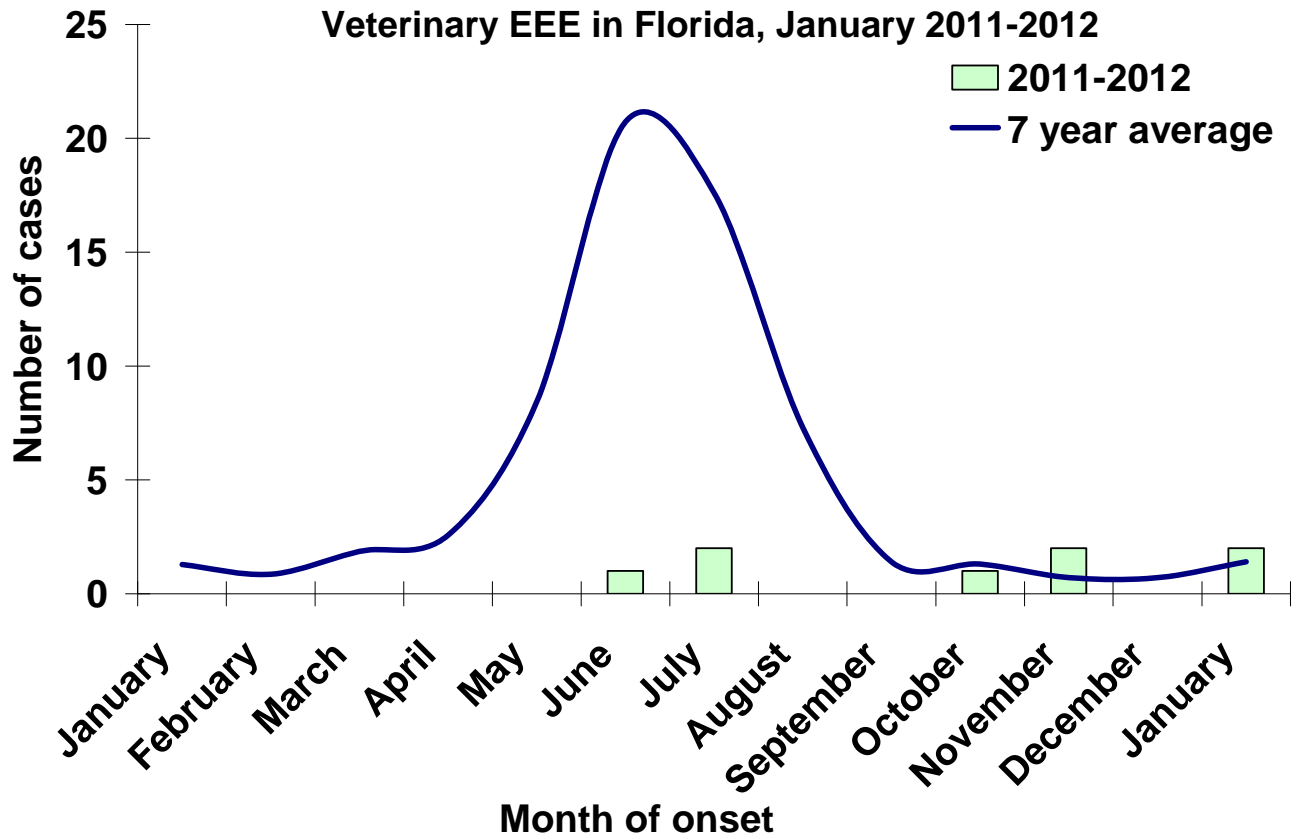
Imported Dengue: Two cases of dengue with onset in 2012 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Surinam and Guyana. County reporting cases was Broward (2).

Imported Malaria: Two imported cases of malaria with onset in 2012 have been reported. County of origin was: Haiti (2). Counties reporting cases were: Marion and Orange.

Veterinary Cases

Two horses in Levy County tested positive for EEEV this week.

County	Onset Date	Species	Virus	Status	County YTD
Levy	1/2/12	Equine	EEEV	Euthanized	
Levy	1/2/12	Equine	EEEV	Euthanized	2 EEEV



Sentinel Chickens

Three sentinel chickens in Hillsborough County tested positive for antibodies to SLEV. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				County Totals Week	YTD - 2012
		SLEV	WNV	EEEV	HJV		
Hillsborough	1/3/12	5.45				3 SLEV	3 SLEV

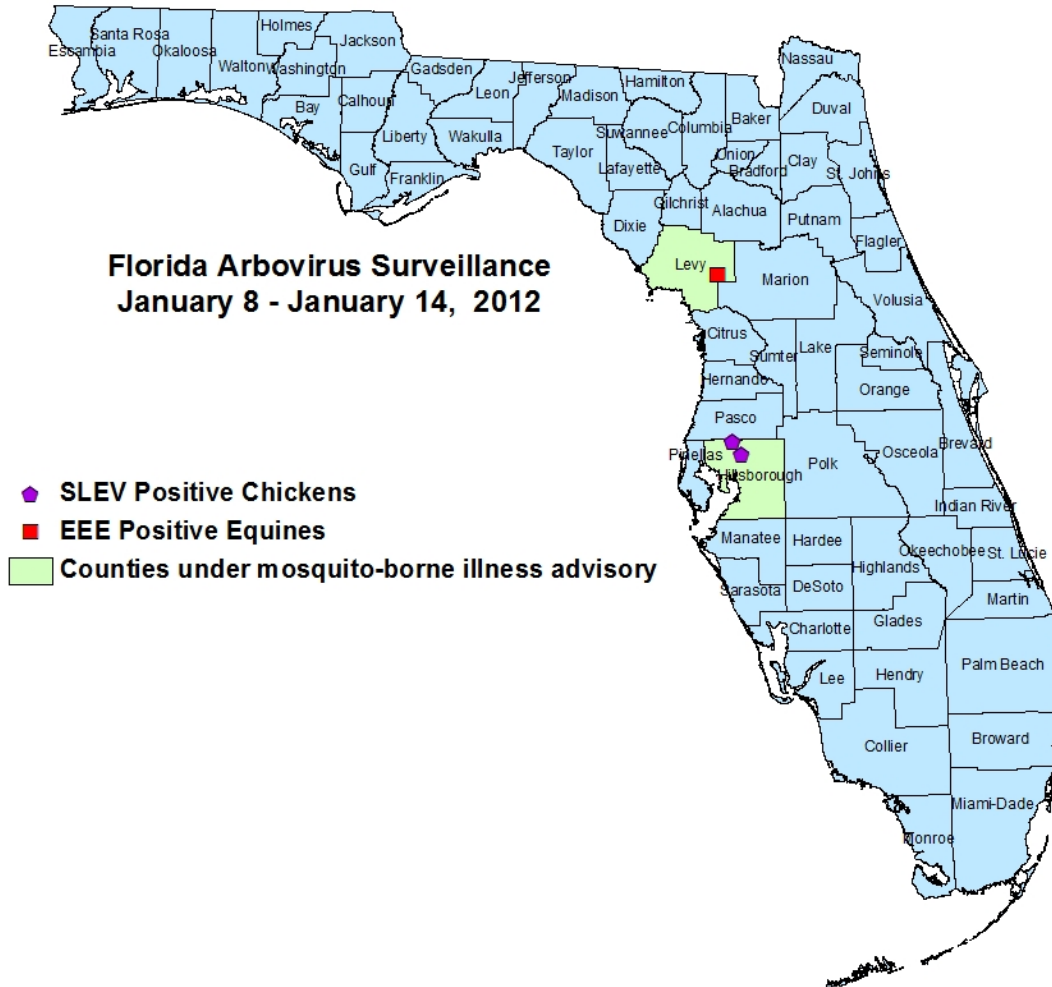
Three sentinel chickens collected in December and November 2011 from Hillsborough and Lee counties tested positive for antibodies to WNV. These chickens will be included in 2011 data. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				County Totals Week	YTD - 2011
		SLEV	WNV	EEEV	HJV		
Hillsborough	12/29/11		1.89			1WNV	71 WNV, 16 SLEV, 4EEEV
Lee	11/28/11		2.53			2WNV	25 WNV

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, 12 reports representing 38 dead birds were received from ten counties. Two birds were identified as raptors; one was identified as jay and one as crow. In 2012, eighteen reports representing a total of 48 dead birds (1 crow, 1 jay, 5 raptors, 41 others) were received from 14 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



Arbovirus Activity by County

County	Arbovirus Activity
Hillsborough	SLEV: 3 sentinels (1/3)
Levy	EEEV: 2 horses (1/2)

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.