

**Florida Arbovirus Surveillance
Week 21: May 22 – May 28, 2011**

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses such as 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 May 22 – May 28, 2011, the following arboviral activity was recorded in Florida:

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

EEEV activity: One blue jay in Santa Rosa County tested positive for antibodies to EEEV.

WNV activity: Two sentinel chickens in Sarasota and Indian River counties 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: No counties are currently under mosquito-borne illness advisory or alert.

Year to Date Human Case Summary

Dengue Acquired in Florida: In 2011, one case of locally acquired dengue has been reported in Miami-Dade County.

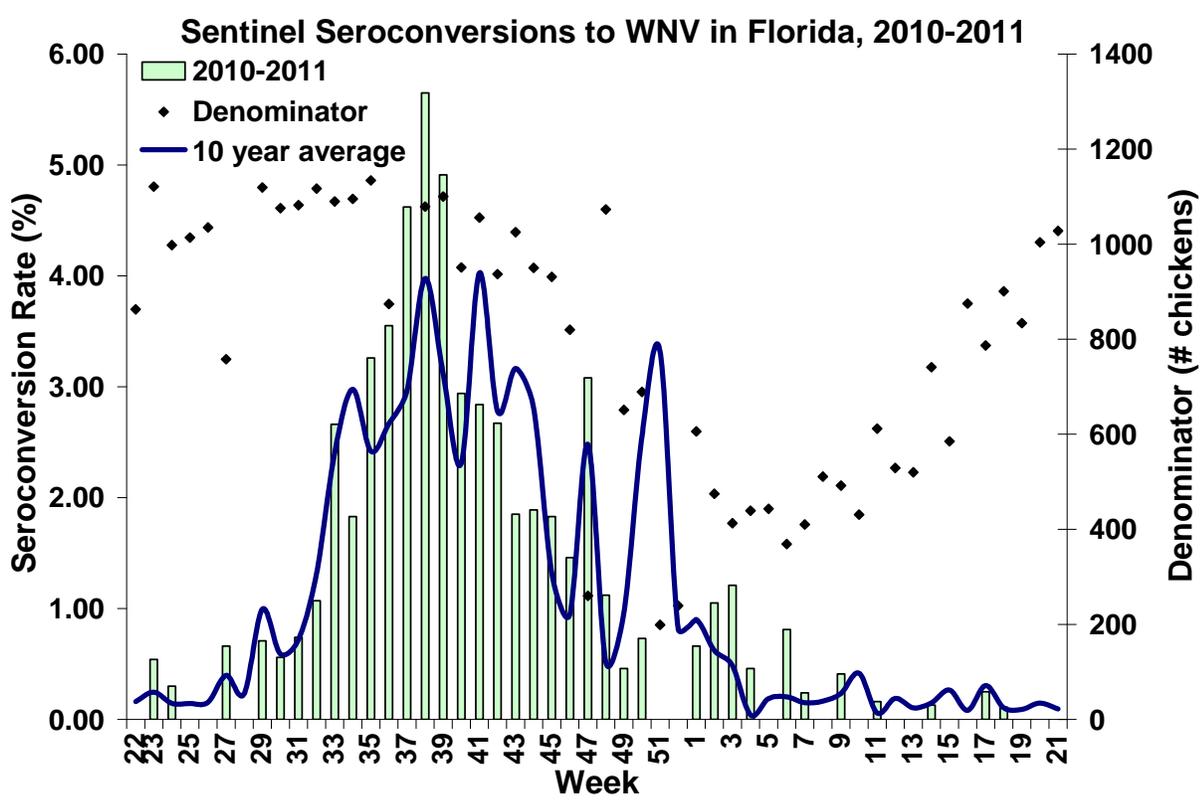
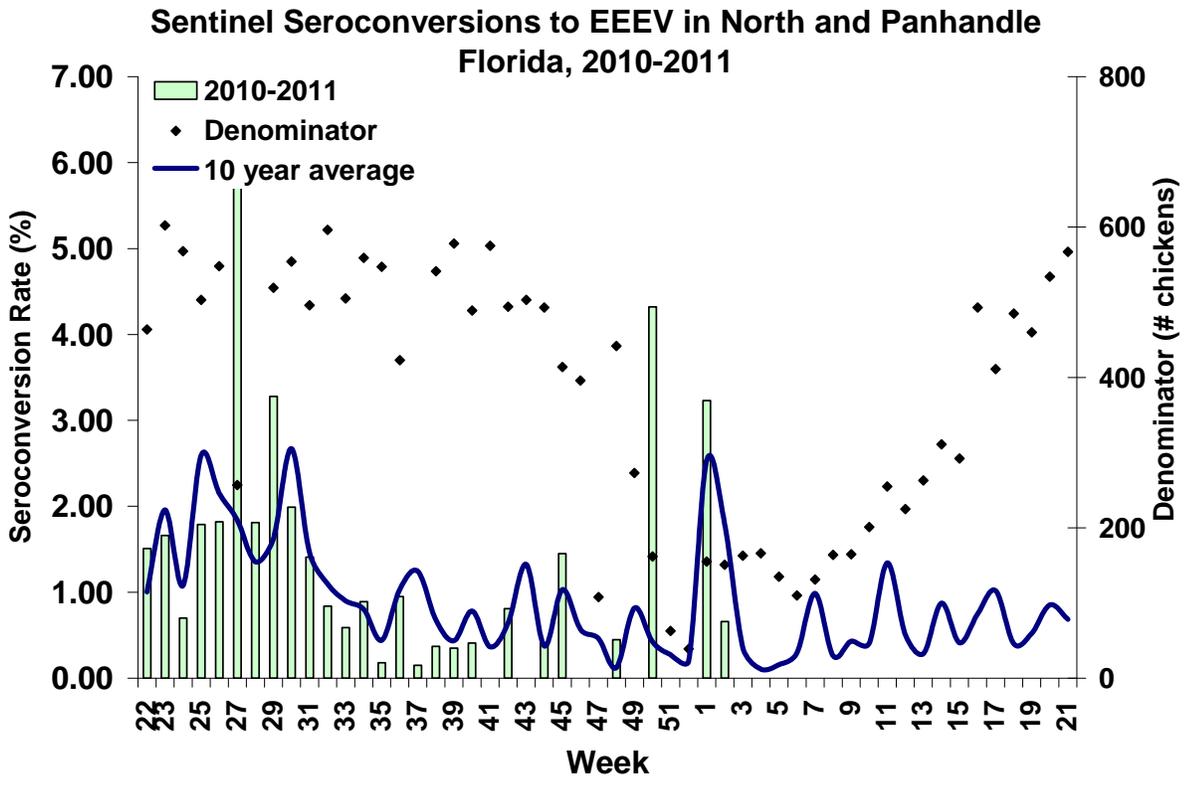
Imported Dengue: Seven cases of dengue with onset in 2011 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Colombia, Guyana, Haiti, India, Nicaragua, Turks and Caicos Islands and Venezuela. Counties reporting cases were Broward (2), Miami-Dade (3), Pasco and Pinellas.

Imported Malaria: Thirty-one imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Cameroon, East Timor, Ethiopia (2), Eritrea, Ghana, Guyana, Haiti (11), India (5), Liberia (2), Mali, Nigeria, Peru, Rwanda, Uganda and Venezuela. Counties reporting cases were: Alachua, Brevard, Broward (3), Collier (2), Duval (3), Escambia, Hillsborough, Indian River, Lee (3), Miami-Dade (7), Manatee, Orange, Palm Beach (3) Pinellas, Seminole and St. Lucie.

Sentinel Chickens

Two sentinel chickens in Sarasota and Indian River counties 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
Indian River	4/28/11		2.13			1 WNV	1 WNV
Sarasota	5/02/11		1.72			1 WNV	5 WNV



Live Wild Birds

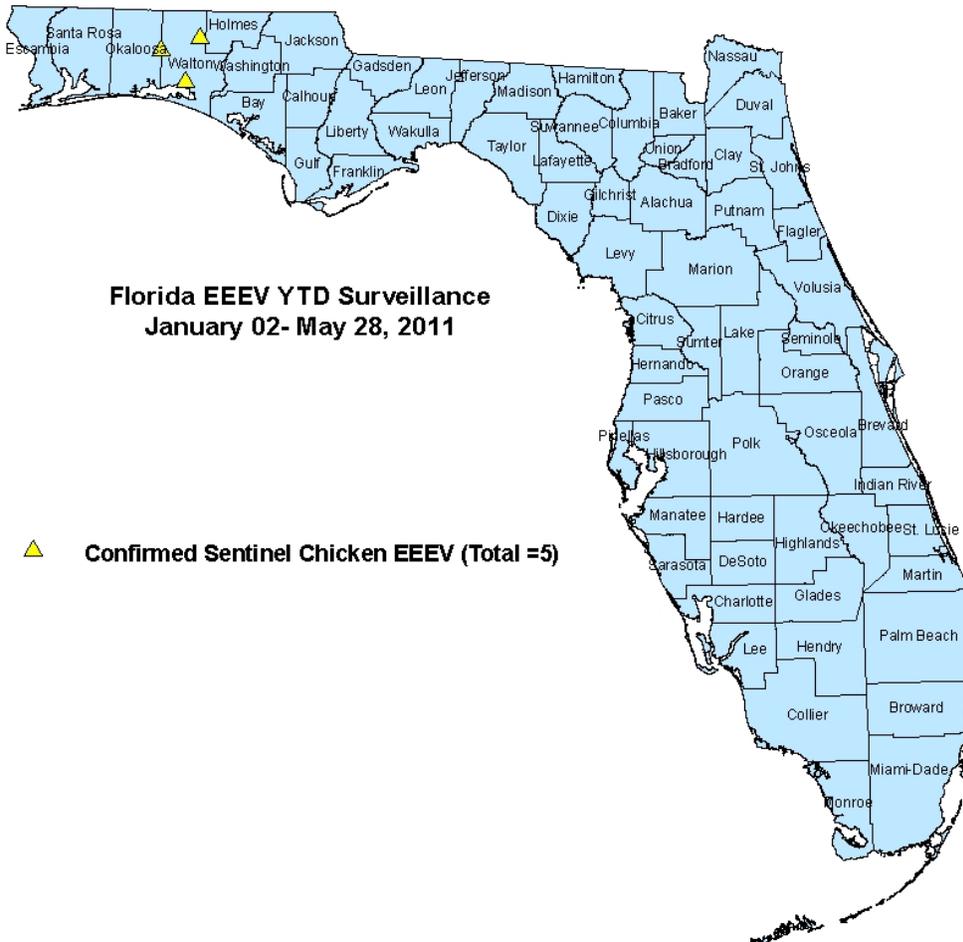
Out of 18 live wild birds collected from three counties on May 09 –May 13, 2011, one blue jay in Santa Rosa County tested positive for antibodies to EEEV.

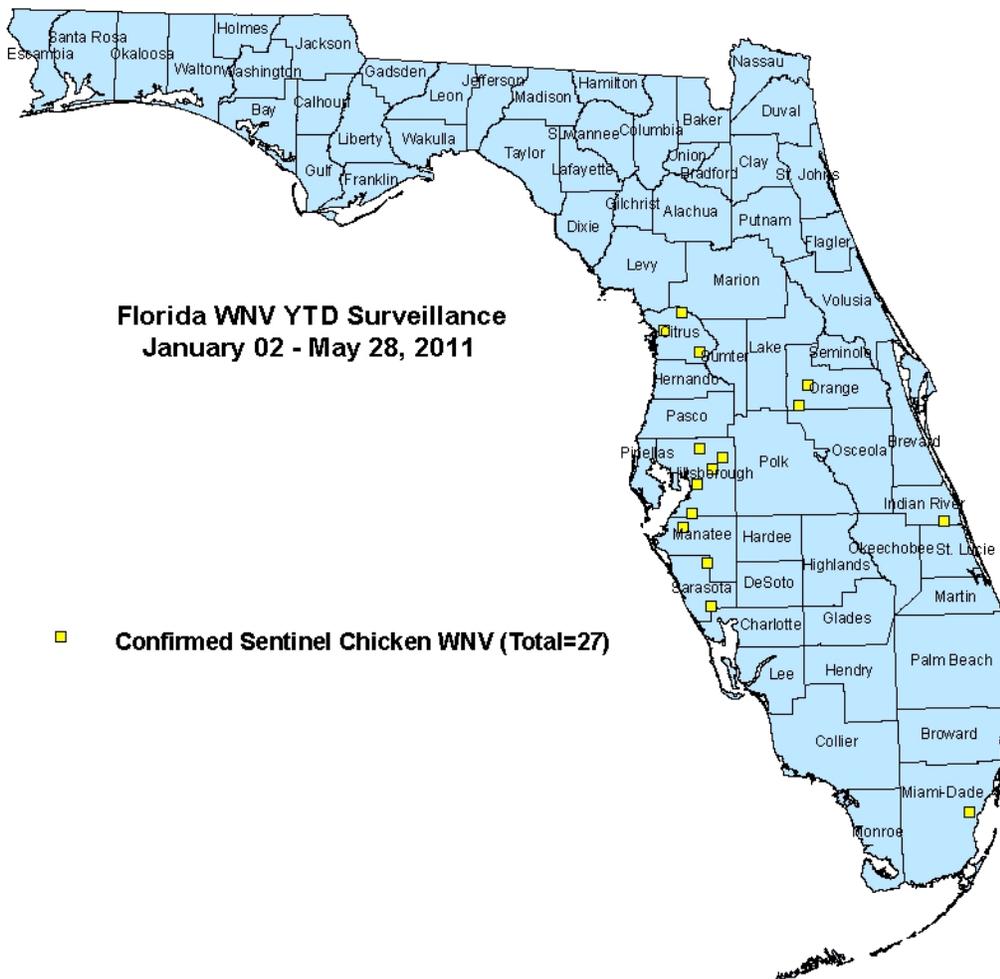
County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Santa Rosa	5/10/11	1		Blue jay	1 out of 3	N/A	6 EEEV

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, 5 reports representing 18 dead birds were received from 4 counties. Three were identified as jays and two as crows. None were identified as raptors. In 2011, one hundred and forty one reports representing a total of 487 dead birds (13 crows, 33 jays, 37 raptors, 404 others) were received from 37 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)
Dade	WNV: 1 sentinel (1/18)
Hillsborough	WNV : 13 sentinels (1/4, 1/11, 1/18, 1/25, 2/9, 3/1)
Indian River	WNV: 1 sentinel (4/28)
Manatee	WNV: 1 sentinel (4/4)
Okaloosa	EEE : 6 live wild birds (3 blue jays 1/10, 4/11, 4/25; 1 cardinal 1/ 11 and 2 brown thrashers 2/21, 4/20)
Orange	WNV : 3 sentinels (1/3, 1/18, 1/24) HJV : 1 sentinel (2/24)
Santa Rosa	EEE: 6 live wild birds (1 house sparrow 1/05 and 5 blue jays 3/1, 2/1, 4/12, 5/10)
Sarasota	WNV: 5 sentinels (1/4, 2/14, 3/14, 4/25, 5/2)
Walton	EEE : 5 sentinels (1/6) ; 2 live wild birds (2 cardinals 1/14, 1/21) HJV: 2 sentinels (1/14, 4/18)

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.