

Florida Arbovirus Surveillance

Week 7: February, 13 – February 19, 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 February 13, – February 19, 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: No EEEV activity was reported this week.

WNV activity: Five sentinel chickens in Dade, Hillsborough and Orange 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: Miami-Dade County is under mosquito-borne illness advisory.

Year to Date Human Case Summary

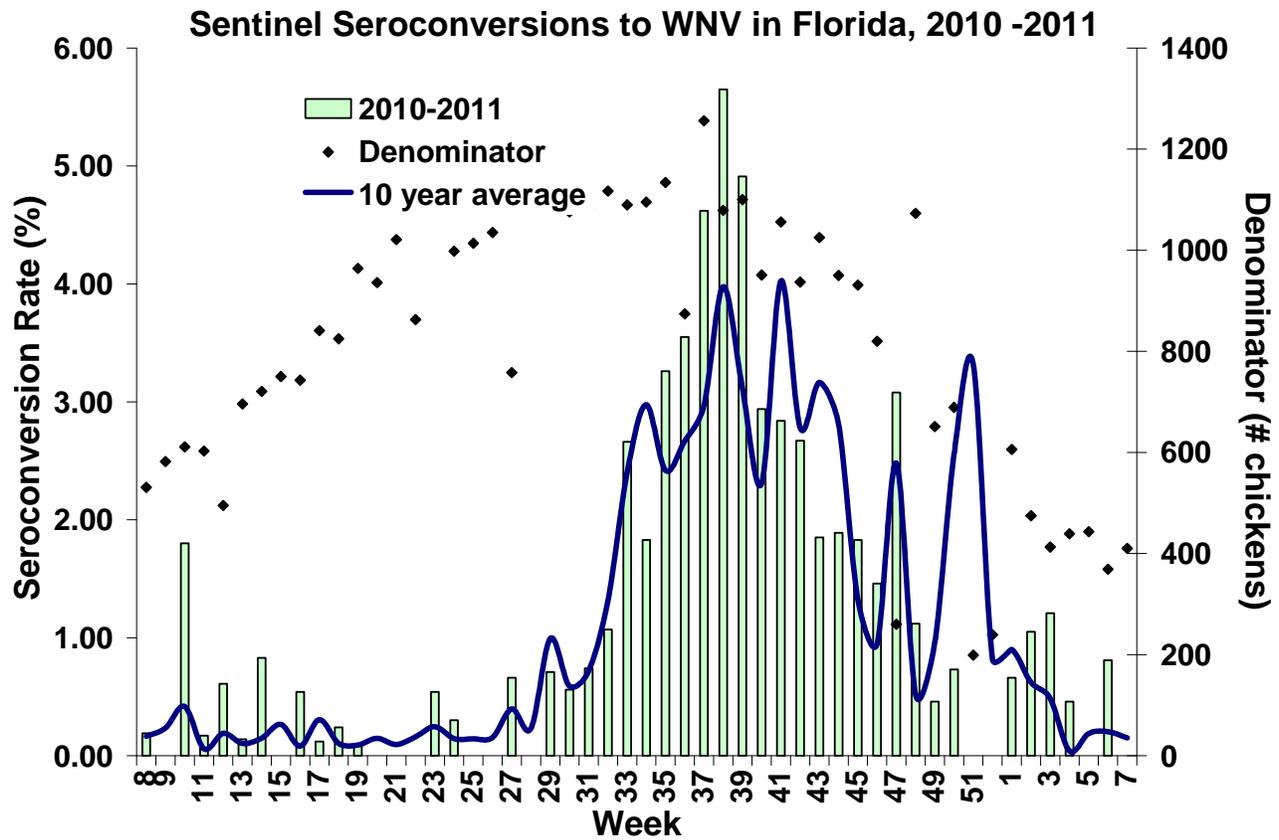
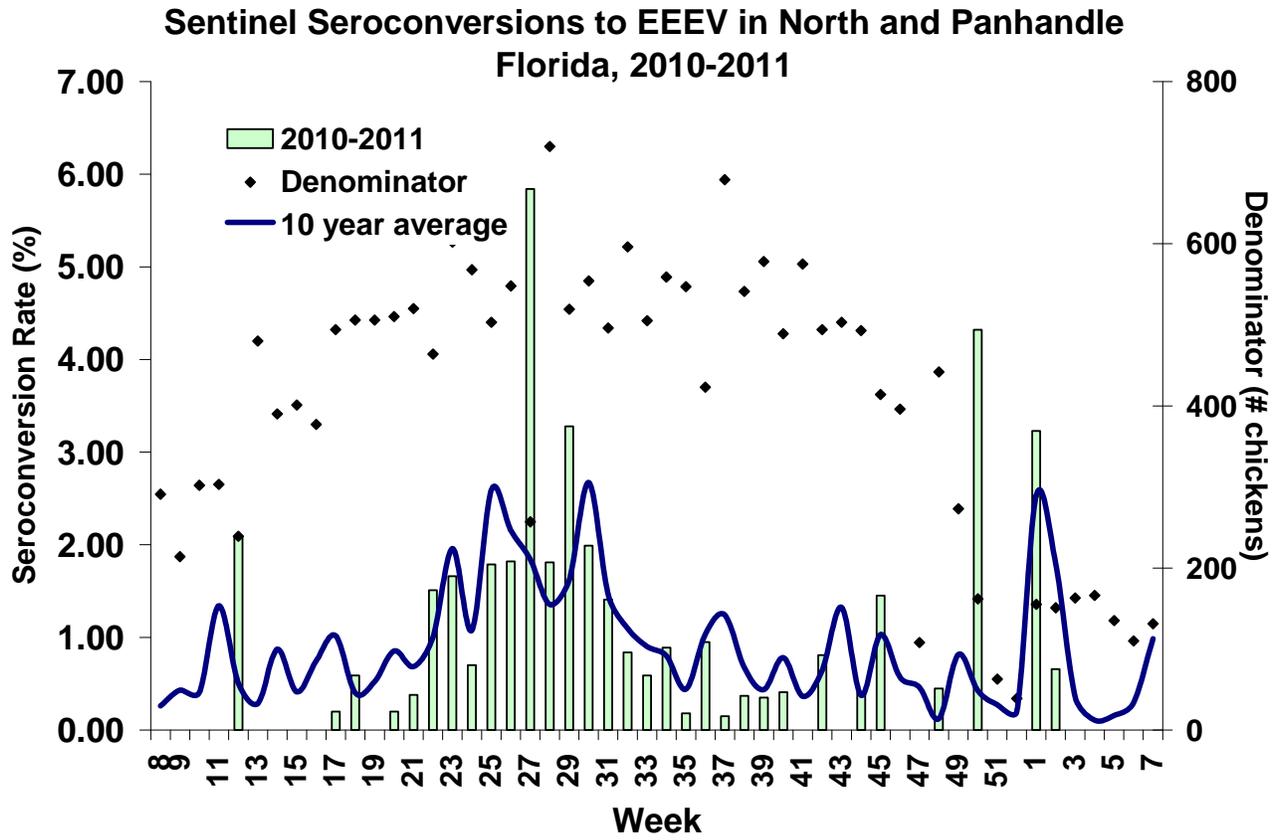
Imported Dengue: Two cases of dengue with onset in 2011 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Colombia and India. Counties reporting cases were Miami-Dade and Pasco.

Imported Malaria: Thirteen imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Ethiopia, Guyana, Haiti (6), India, Liberia, Mexico, Peru and Uganda. Counties reporting cases were: Broward (2), Hillsborough, Indian River, Lee (2), Miami-Dade (2), Orange, Palm Beach (3) and Pinellas.

Sentinel Chickens

Five sentinel chickens in Dade, Hillsborough and Orange Counties tested positive for antibodies to WNV.

County	Collection Date	Seroconversion Rates (%)				County Totals	
		SLEV	WNV	EEEV	HJV	Week	YTD
Dade	01/18/11		7.14			1 WNV	1 WNV
Hillsborough	02/09/11		4.84			3 WNV	11 WNV
Orange	01/24/11		2.38			1 WNV	3 WNV



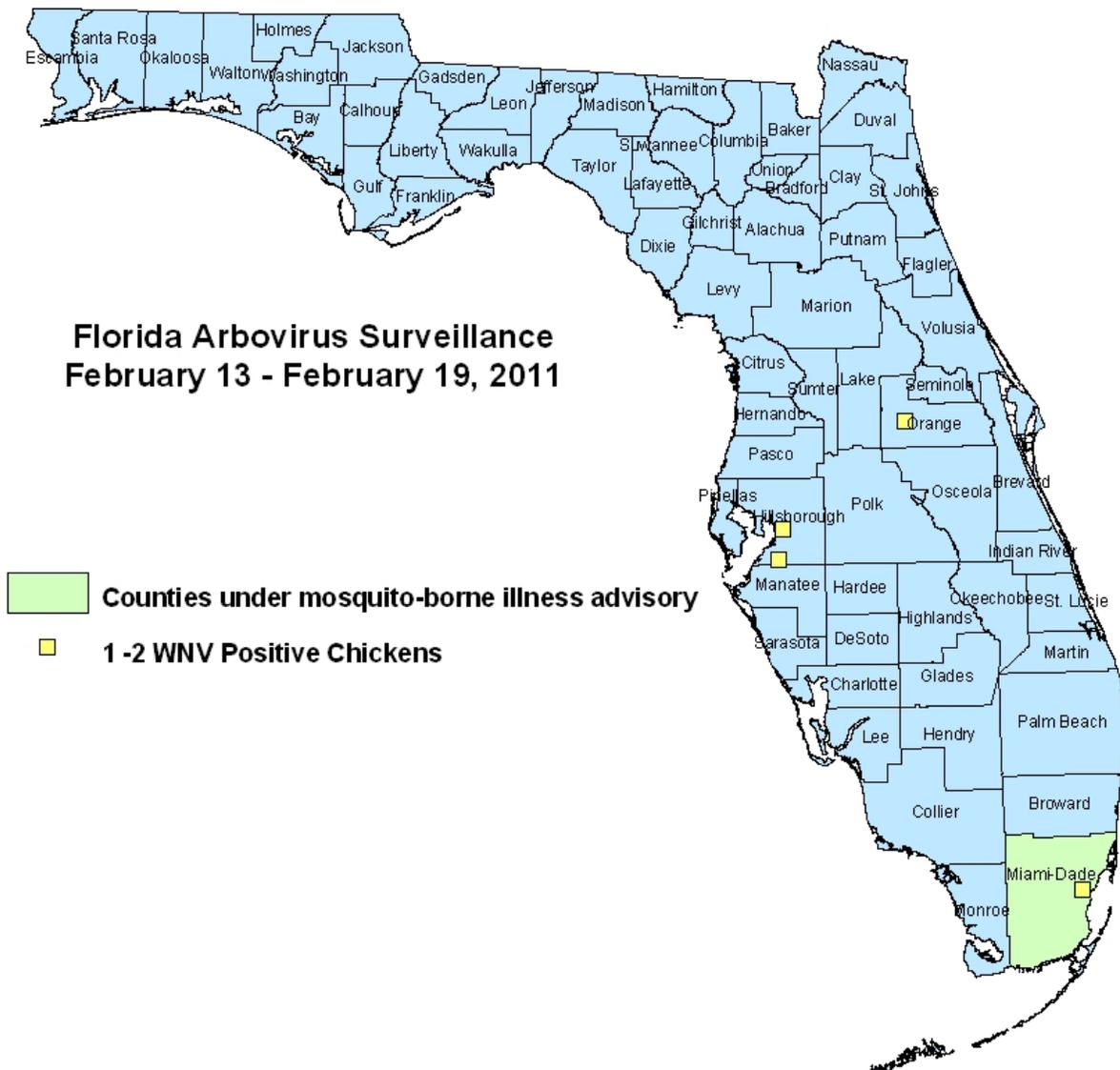
Live Wild Birds

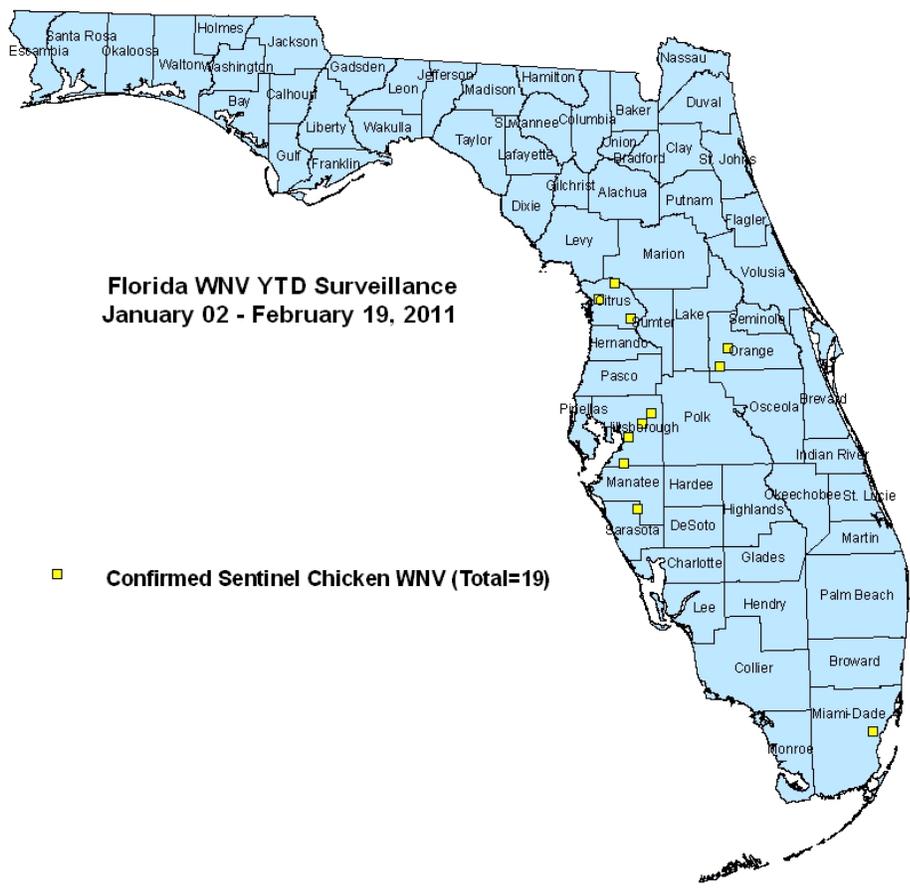
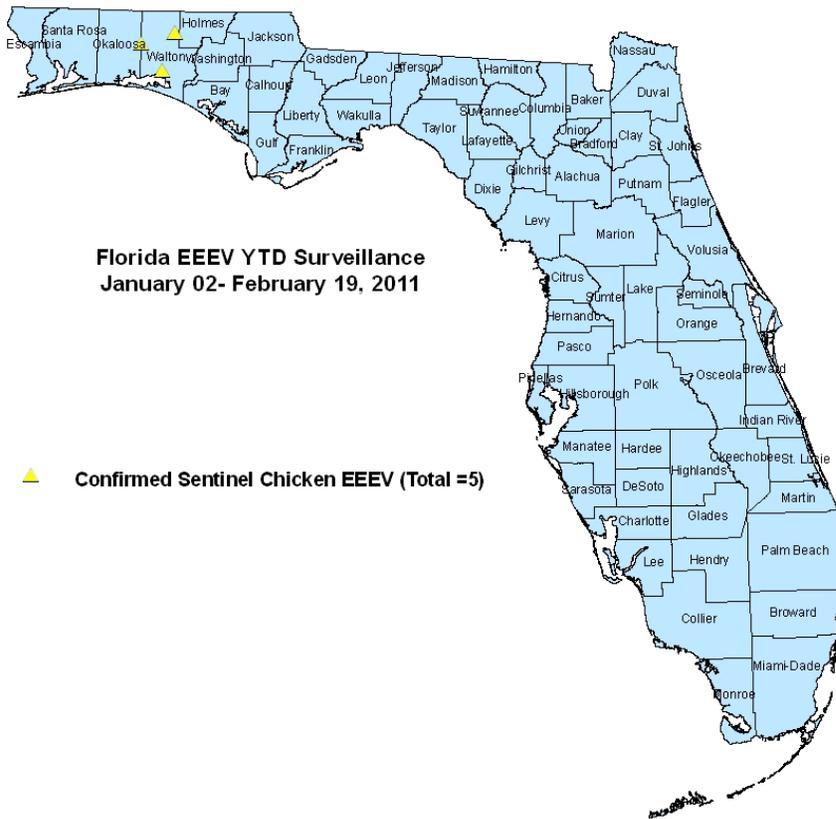
No positive live wild birds were reported this week.

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, 4 reports representing 39 dead birds were received from three counties. None were identified as raptors, crows or jays. In 2011, Fifty-three reports representing a total of 222 dead birds (0 crows, 0 jays, 28 raptors, 194 others) were received from 24 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
Dade	WNV: 1 sentinel (1/18)
Citrus	WNV: 3 sentinels (1/3, 1/11)
Hillsborough	WNV : 11 sentinels (1/4, 1/11, 1/18, 1/25, 2/9)
Okaloosa	EEE : 2 live wild birds (1 blue jays 1/10 and 1 cardinal 1/ 11)
Orange	WNV : 3 sentinel (1/3, 1/18, 1/24)
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

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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.