



Florida Arbovirus Surveillance Week 27: July 03 – July 09, 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 July 03 - July 09, 2011, the following arboviral activity was recorded in Florida:

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

EEEV activity: Four sentinel chickens in Duval, Orange and St. Johns Counties tested positive for antibodies to EEEV. In 2011, positive samples from one equine, 13 sentinel chickens and 19 live wild birds have been received from seven counties.

WNV activity: No WNV activity was reported this week. In 2011, positive samples from 31 sentinel chickens and one live wild bird (flavivirus positive) have been received from ten counties.

SLEV activity: No SLEV activity has been reported in 2011.

HJV activity: No HJV activity was reported this week. In 2011, positive samples from five sentinel chickens have been received from three counties.

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

Year to Date Human Case Summary

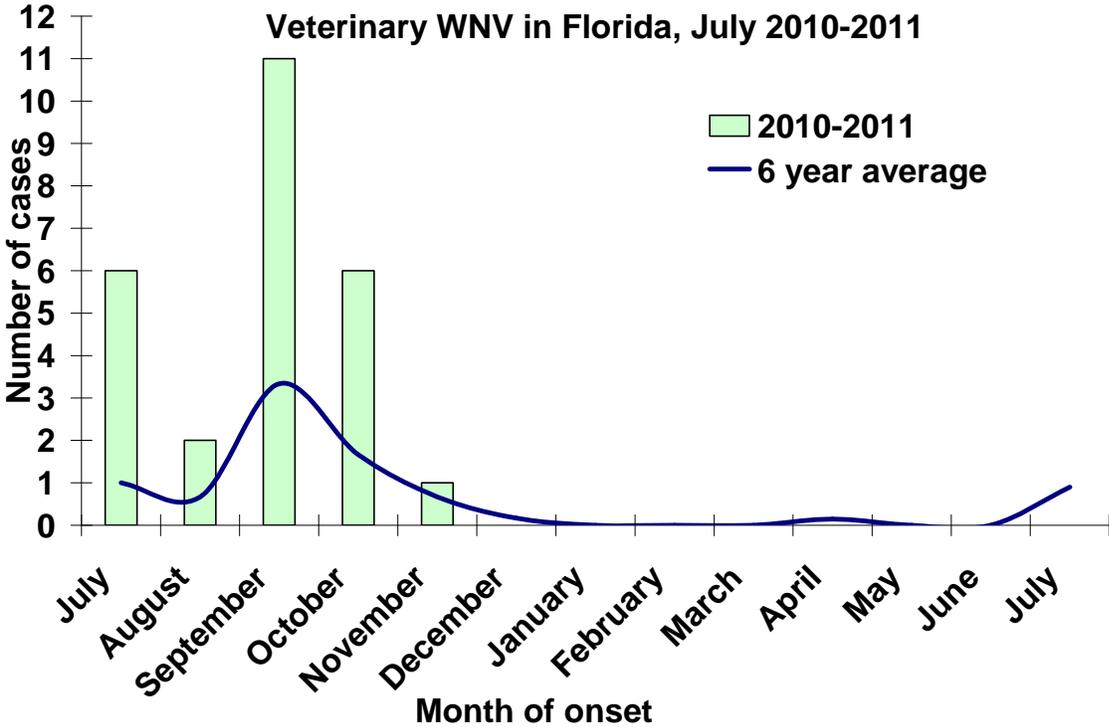
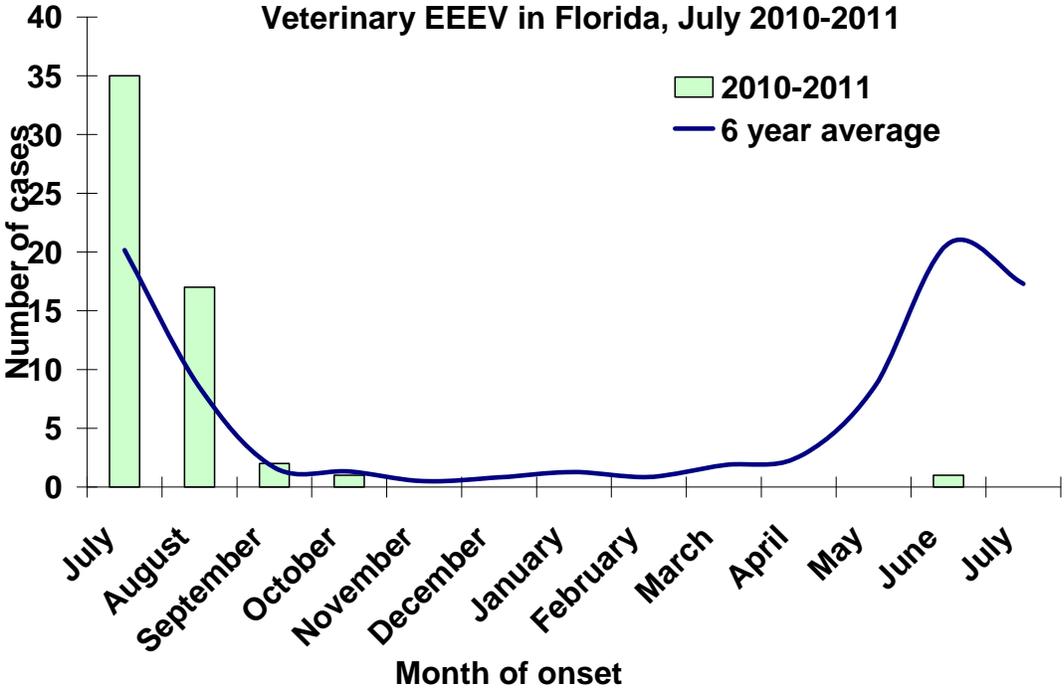
Dengue Acquired in Florida: In 2011, one case of locally acquired dengue has been reported in Miami-Dade County.

Imported Dengue: Nine 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 Aruba, Brazil, Colombia, Guyana, Haiti, India, Nicaragua, Turks and Caicos Islands and Venezuela. Counties reporting cases were Broward (2), Hendry, Miami-Dade (4), Pasco and Pinellas.

Imported Malaria: Forty-four imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Afghanistan (2), Cameroon, East Timor, Ethiopia (2), Eritrea (2), Gabon, Ghana (2), Guinea Conakry, Guyana, Haiti (13), Honduras (2), India (5), Liberia (2), Mali, Nigeria (3), Peru, Rwanda, Uganda (2) and Venezuela. Counties reporting cases were: Alachua, Brevard (2), Broward (4), Citrus, Collier (2), Duval (5), Escambia, Hillsborough (3), Indian River, Lee (4), Miami-Dade (10), Manatee, Okaloosa, Orange, Palm Beach (3), Pasco, Pinellas, Seminole and St. Lucie.

Veterinary Cases

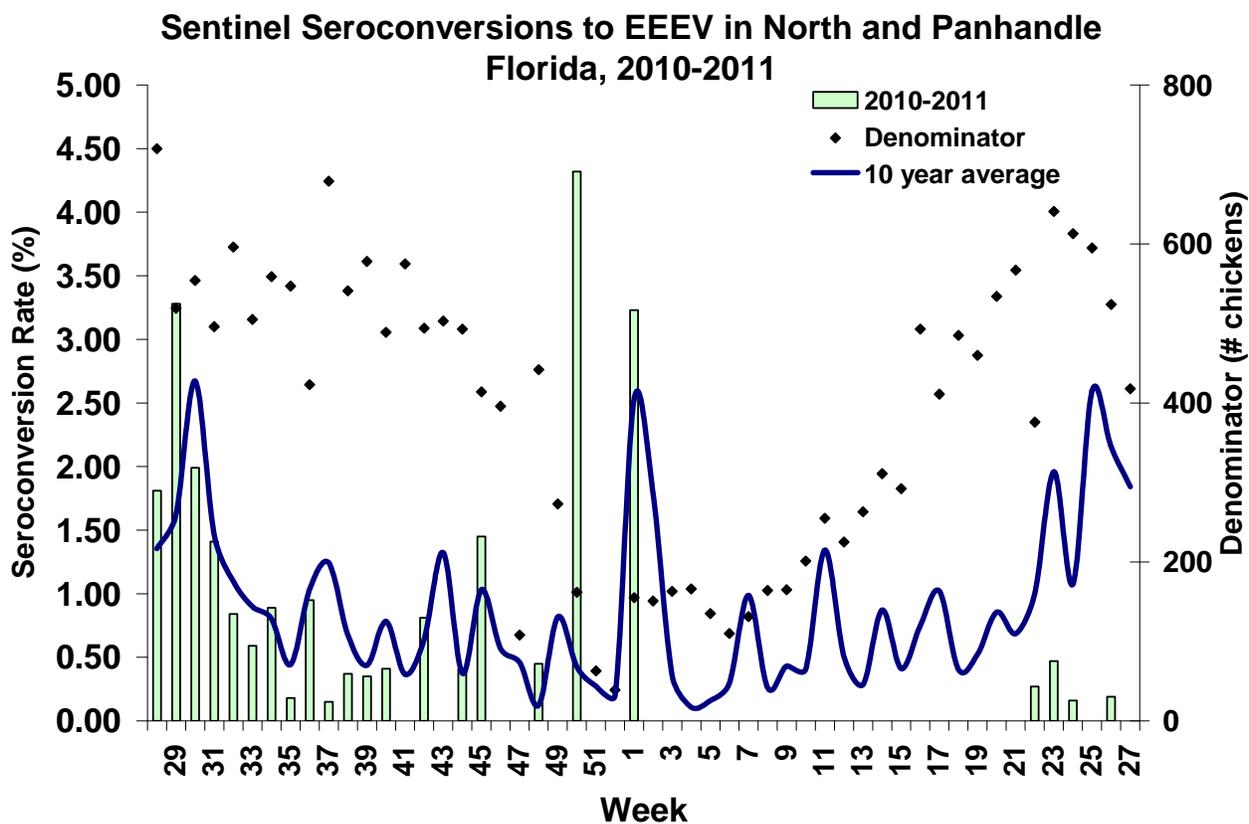
No positive horses were reported this week.

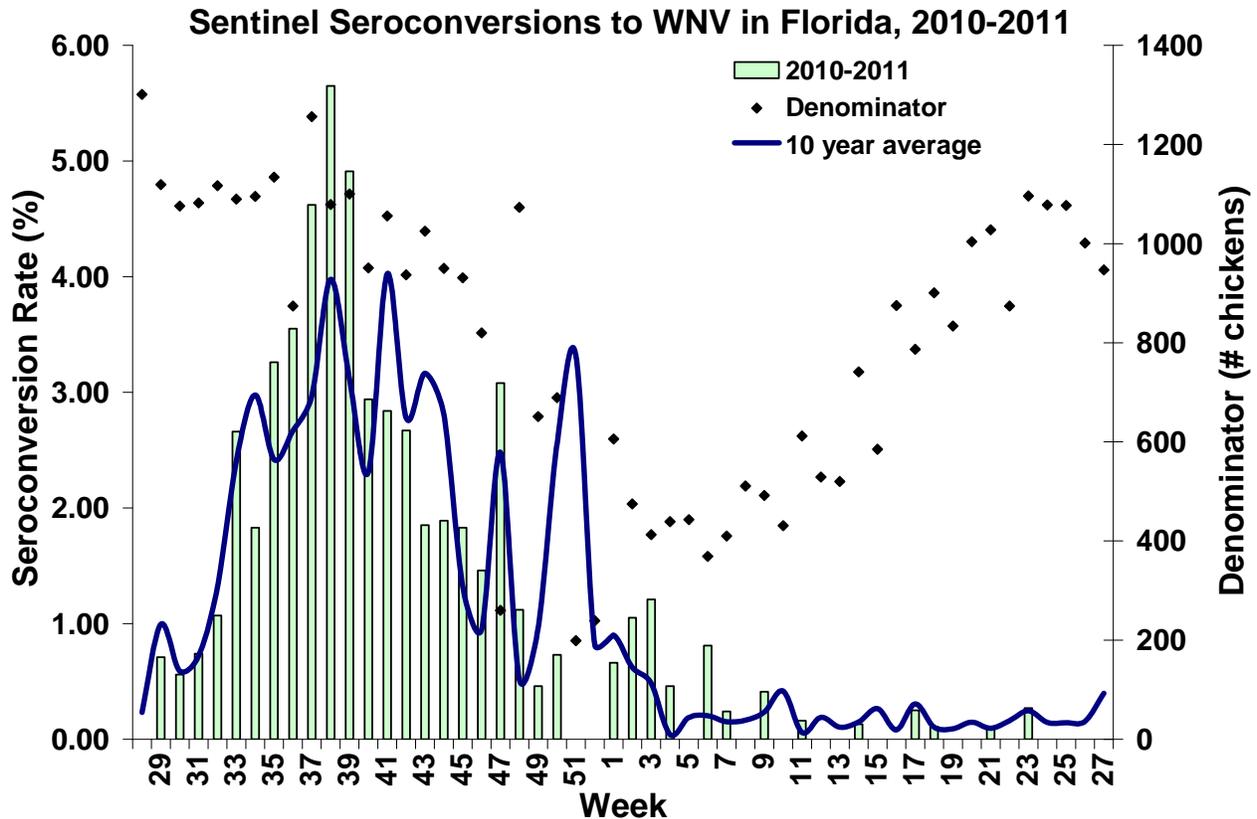


Sentinel Chickens

Four sentinel chickens in Duval, Orange and St. Johns Counties tested positive for antibodies to EEEV. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				County Totals	
		SLEV	WNV	EEEV	HJV	Week	YTD
Duval	06/11/11			3.33		1 EEEV	1 EEEV
Orange	06/27/11			1.45		1 EEEV	1 EEEV, 3 WNV
Orange/Reedy	06/09/11			2.38		1 EEEV	2 EEEV, 1HJV
St Johns	06/13/11			1.67		1 EEEV	1 EEEV





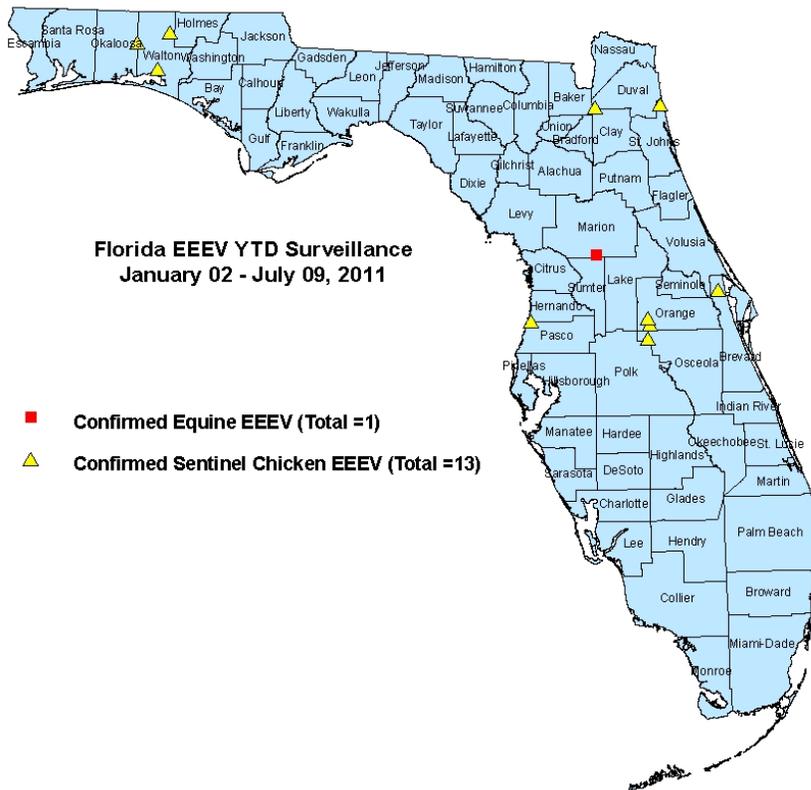
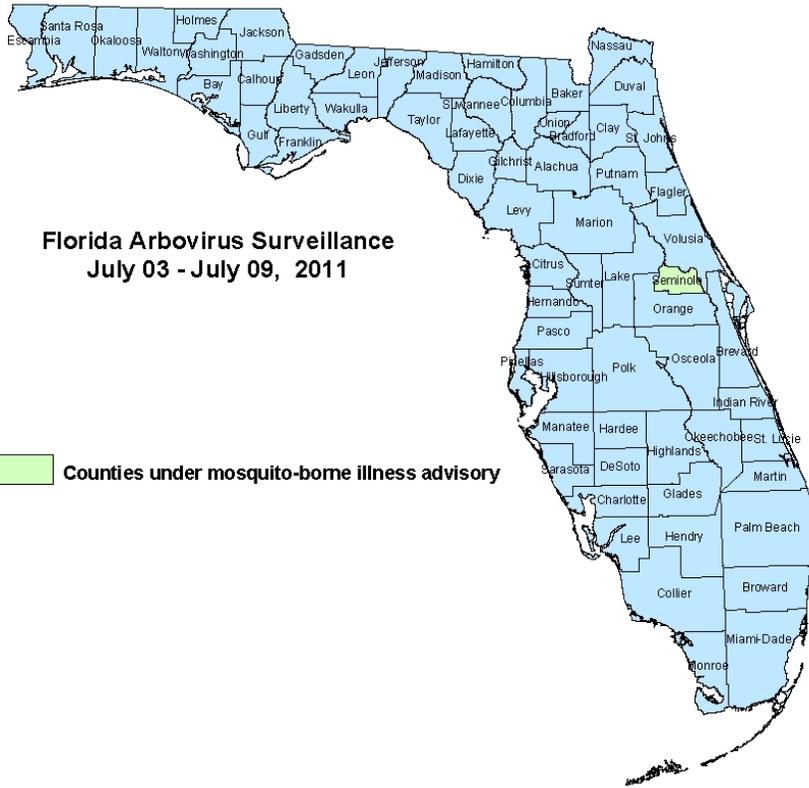
Live Wild Birds

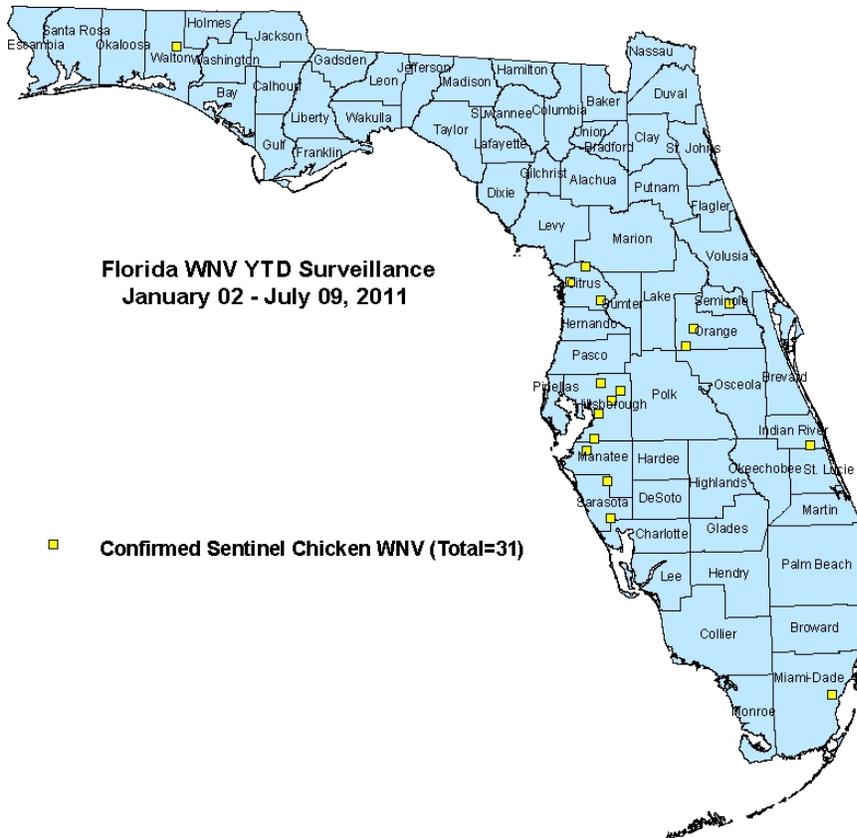
No positive live wild birds were reported this week.

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, two reports representing two dead birds were received from two counties. None were identified as crows, jays or raptors. In 2011, one hundred and sixty-two reports representing a total of 540 dead birds (18 crows, 36 jays, 41 raptors, 445 others) were received from 41 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
Brevard	EEEV: 2 sentinels (5/20, 5/27)
Citrus	WNV: 3 sentinels (1/3, 1/11)
Dade	WNV: 1 sentinel (1/18)
Duval	EEEV: 1 sentinel (6/11)
Hernando	EEEV: 1 sentinel (6/6)
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)
Marion	EEEV: 1 horse (6/21)
Nassau	HJV: 1 sentinel (5/23)
Okaloosa	WNV: 1 live wild bird (flavivirus positive, 1 blue jay 5/31) EEEV: 10 live wild birds (7 blue jays 1/10, 4/11, 4/25, 5/16, 5/19, 6/6, 6/8; 1 cardinal 1/11 and 2 brown thrashers 2/21, 4/20)
Orange	WNV: 3 sentinels (1/3, 1/18, 1/24) EEEV: 3 sentinels (6/2, 6/9, 6/27) HJV: 1 sentinel (2/24)
Santa Rosa	EEEV: 7 live wild birds (1 house sparrow 1/05 and 6 blue jays 3/1, 2/1, 4/12, 5/10, 5/18)
Sarasota	WNV: 5 sentinels (1/4, 2/14, 3/14, 4/25, 5/2)
Seminole	WNV: 3 sentinels(6/7)

St. Johns	EEEV: 1 sentinel (6/13)
Walton	EEEV: 5 sentinels (1/6) ; 2 live wild birds (2 cardinals 1/14, 1/21) WNV: 1 sentinel (5/24) HJV: 3 sentinels (1/14, 4/18,5/2)

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. Wild captured bird information is provided by the John A. Mulrennan Public Health Entomology Research and Education Center.