



## Florida Arbovirus Surveillance Week 25: June 19 – June 25, 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 June 19 - June 25, 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 equine case of EEEV was reported in Marion County. Two sentinel chickens in Hernando and Orange Counties tested positive for antibodies to EEEV. In 2011, positive samples from one equine, nine 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 27 sentinel chickens and one live wild bird (flavivirus positive) have been received from eight 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:** 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.

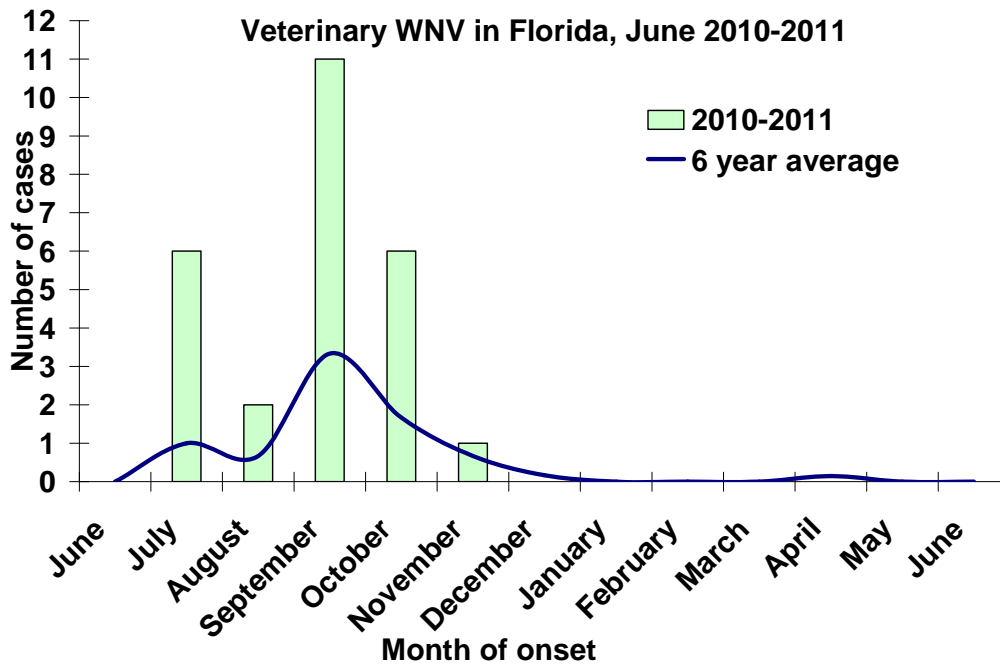
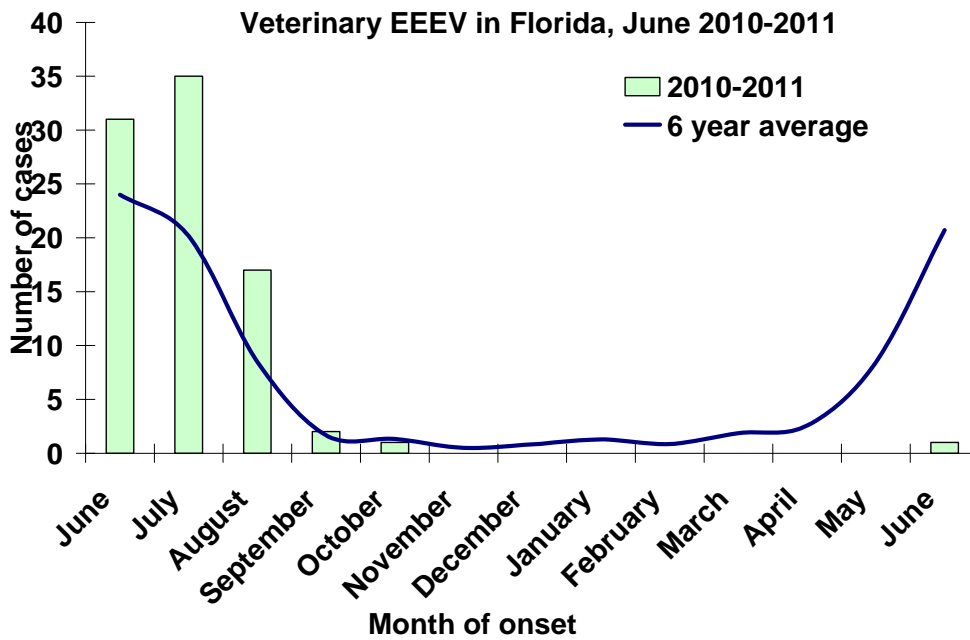
**Imported Dengue:** Nine cases of dengue with onset in 2011 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Aruba, Brazil, Colombia, Guyana, Haiti, India, Nicaragua, Turks and Caicos Islands and Venezuela. Counties reporting cases were Broward (2), Hendry, Miami-Dade (4), Pasco and Pinellas.

**Imported Malaria:** Forty imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Afghanistan, Cameroon, East Timor, Ethiopia (2), Eritrea (2), Gabon, Ghana (2), Guinea Conakry, Guyana, Haiti (12), Honduras, India (5), Liberia (2), Mali, Nigeria (2), Peru, Rwanda, Uganda (2) and Venezuela. Counties reporting cases were: Alachua, Brevard, Broward (4), Citrus, Collier (2), Duval (4), Escambia, Hillsborough (3), Indian River, Lee (4), Miami-Dade (9), Manatee, Okaloosa, Orange, Palm Beach (3) Pinellas, Seminole and St. Lucie.

## Veterinary Cases

One horse in Marion County tested positive for EEEV this week.

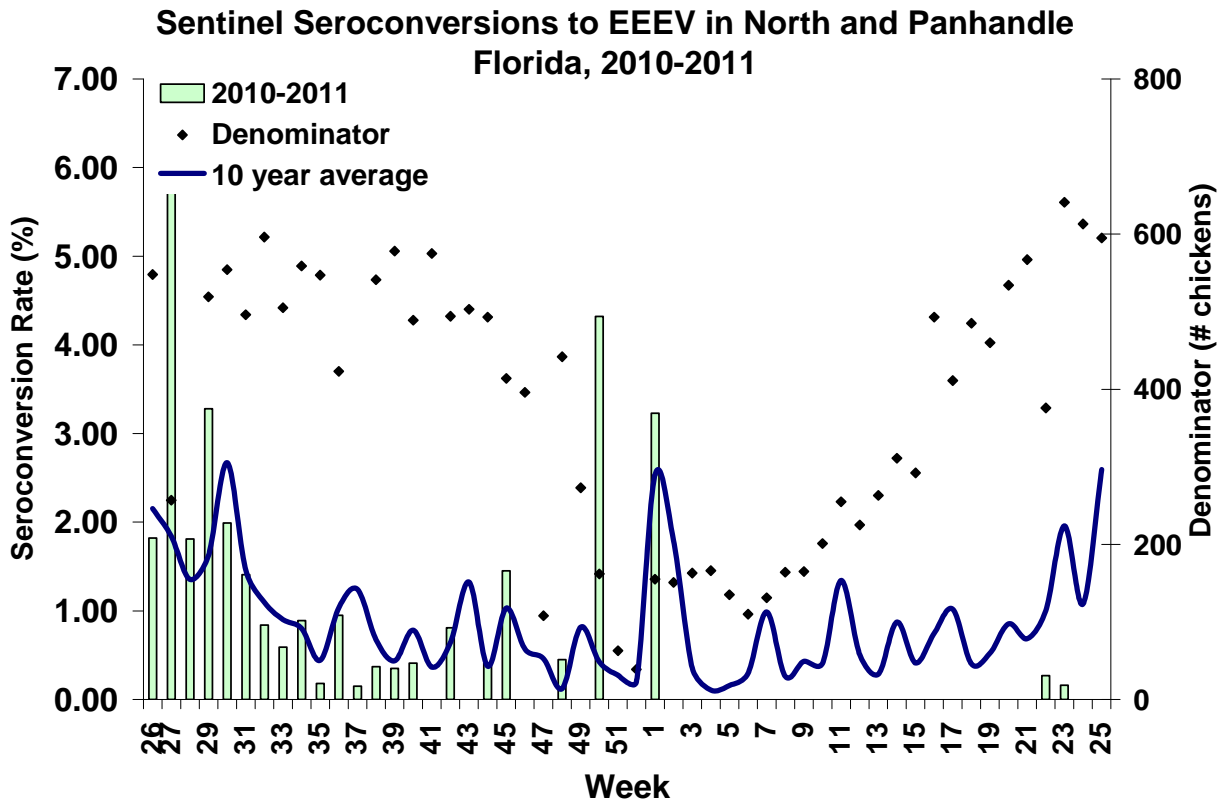
County	Onset Date	Species	Virus	Status	County YTD
Marion	06/21/11	Equine	EEEV	Euthanized	1 EEEV

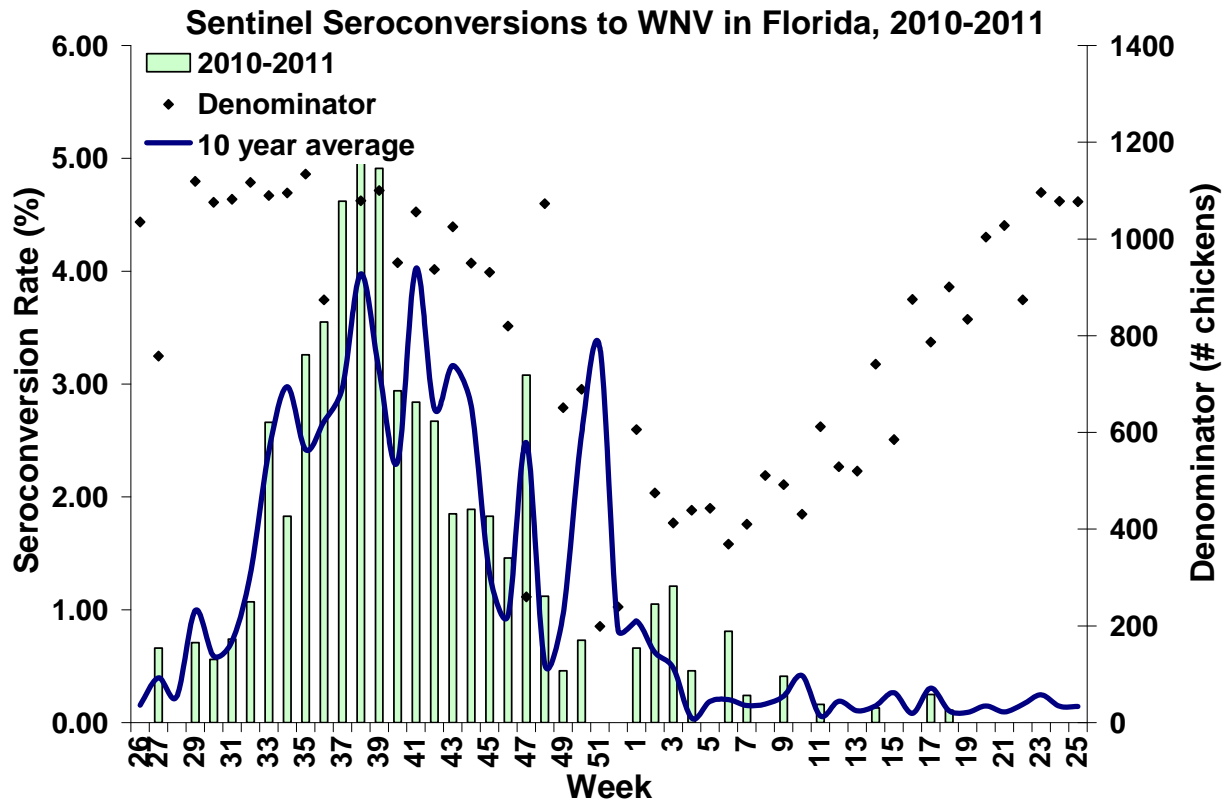


## Sentinel Chickens

Two sentinel chickens in Hernando and Orange 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
Hernando	06/06/11			3.33		1 EEEV	1 EEEV
Orange/Reedy	06/02/11			2.38		1 EEEV	1 EEEV, 1 HJV





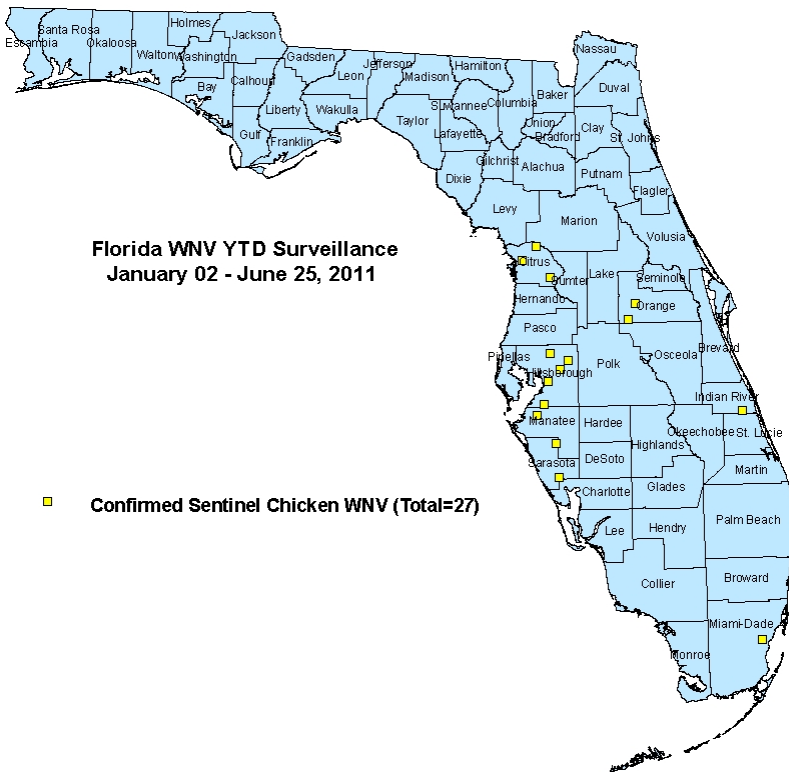
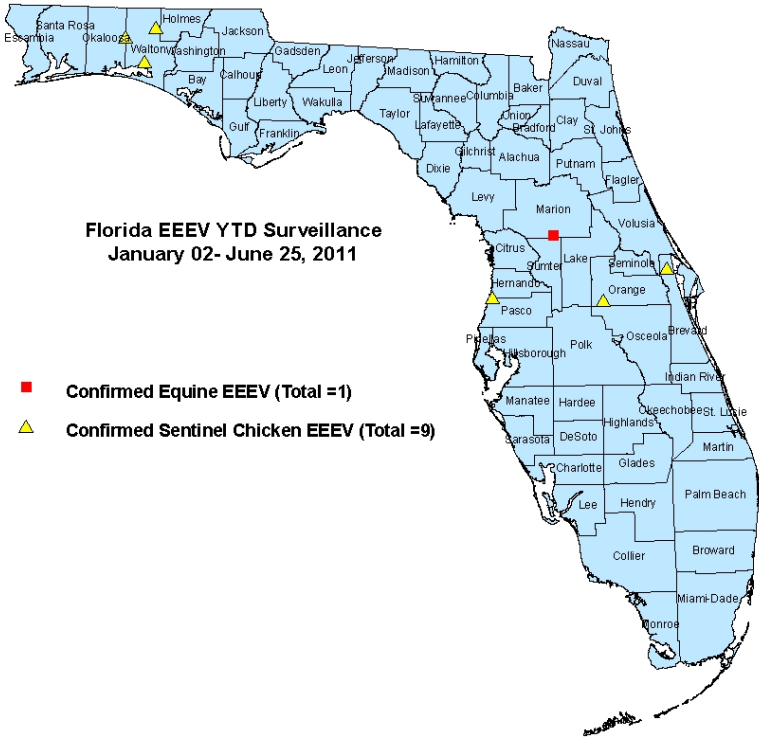
**Live Wild Birds**

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, 6 reports representing 19 dead birds were received from 4 counties. Four were identified as crows. None were identified as raptors or jays. In 2011, one hundred and fifty eight reports representing a total of 536 dead birds (18 crows, 36 jays, 40 raptors, 442 others) were received from 40 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/](http://www.myfwc.com/bird/)

# Maps



## YTD Arbovirus Activity by County

County	Arbovirus Activity
<b>Brevard</b>	EEEV: 2 sentinels (5/20, 5/27)
<b>Citrus</b>	WNV: 3 sentinels (1/3, 1/11)
<b>Dade</b>	WNV: 1 sentinel (1/18)
<b>Hernando</b>	EEEV: 1 sentinel (6/6)
<b>Hillsborough</b>	WNV: 13 sentinels (1/4, 1/11, 1/18, 1/25, 2/9, 3/1)
<b>Indian River</b>	WNV: 1 sentinel (4/28)
<b>Manatee</b>	WNV: 1 sentinel (4/4)
<b>Marion</b>	EEEV: 1 horse (6/21)
<b>Nassau</b>	HJV: 1 sentinel (5/23)
<b>Okaloosa</b>	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)
<b>Orange</b>	WNV: 3 sentinels (1/3, 1/18, 1/24) EEEV: 1 sentinel (6/2) HJV: 1 sentinel (2/24)
<b>Santa Rosa</b>	EEEV: 7 live wild birds (1 house sparrow 1/05 and 6 blue jays 3/1, 2/1, 4/12, 5/10, 5/18)
<b>Sarasota</b>	WNV: 5 sentinels (1/4, 2/14, 3/14, 4/25, 5/2)
<b>Walton</b>	EEEV: 5 sentinels (1/6) ; 2 live wild birds (2 cardinals 1/14, 1/21) HJV: 3 sentinels (1/14, 4/18, 5/2)

## 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.