



## Florida Arbovirus Surveillance Week 23: June 5 – June 11, 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 5 – June 11, 2011, the following arboviral activity was recorded in Florida:

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

**EEEV activity:** No EEEV activity was reported this week. In 2011, positive samples from five sentinel chickens and 17 live wild birds have been received from three counties.

**WNV activity:** One blue jay in Okaloosa County tested positive for antibodies to flavivirus. 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 four sentinel chickens have been received from two 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.

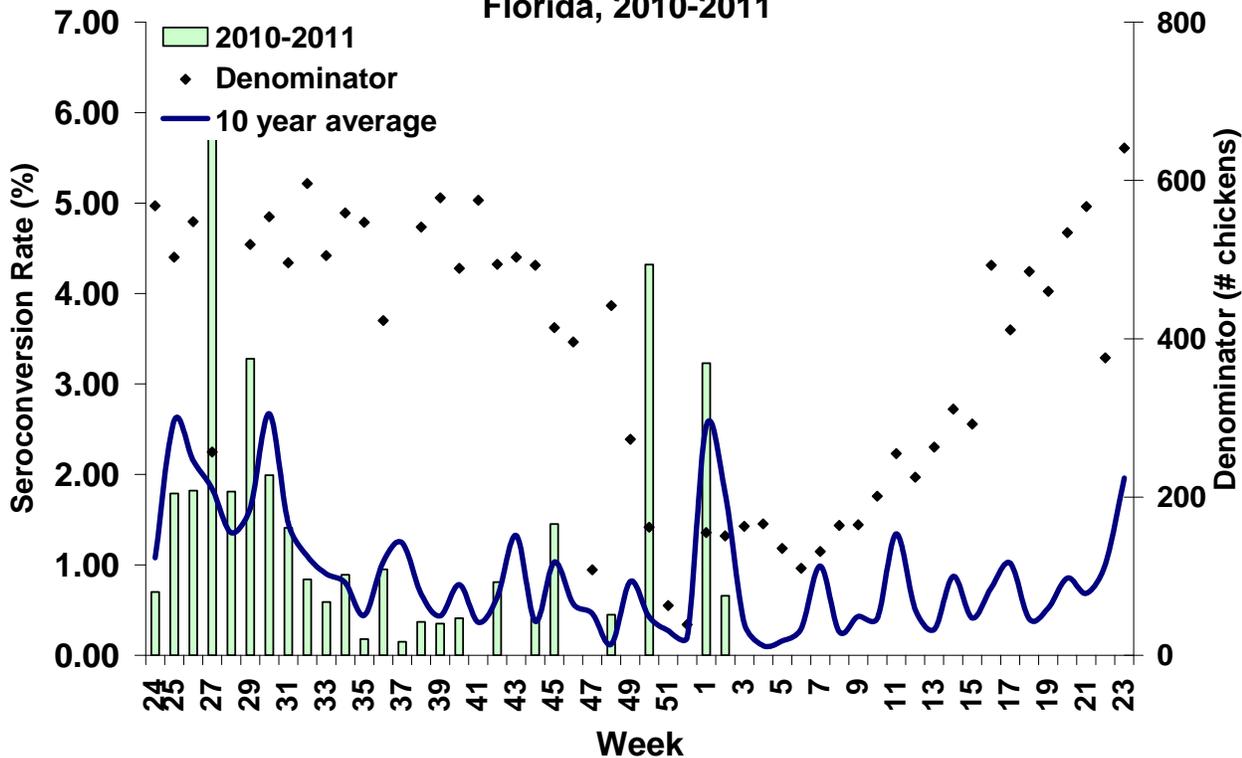
**Imported Dengue:** Eight cases of dengue with onset in 2011 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Brazil, Colombia, Guyana, Haiti, India, Nicaragua, Turks and Caicos Islands and Venezuela. Counties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

**Imported Malaria:** Thirty-five imported cases of malaria with onset in 2011 have been reported. Countries of origin were: Cameroon, East Timor, Ethiopia (2), Eritrea (2), Ghana, Guinea Conakry, Guyana, Haiti (11), India (5), Liberia (2), Mali, Nigeria (2), Peru, Rwanda, Uganda (2) and Venezuela. Counties reporting cases were: Alachua, Brevard, Broward (3), Citrus, Collier (2), Duval (4), Escambia, Hillsborough (2), Indian River, Lee (3), Miami-Dade (8), Manatee, Orange, Palm Beach (3) Pinellas, Seminole and St. Lucie.

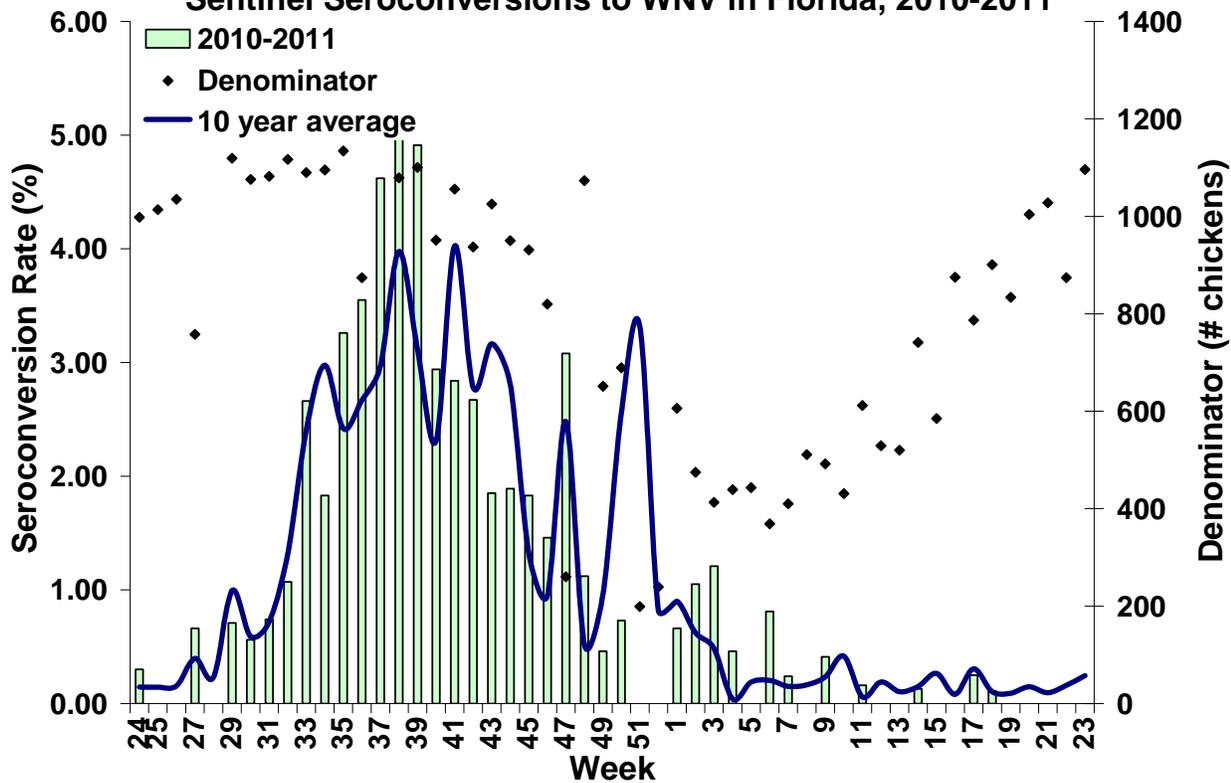
## Sentinel Chickens

No positive sentinels reported this week.

**Sentinel Seroconversions to EEEV in North and Panhandle Florida, 2010-2011**



**Sentinel Seroconversions to WNV in Florida, 2010-2011**



## Live Wild Birds

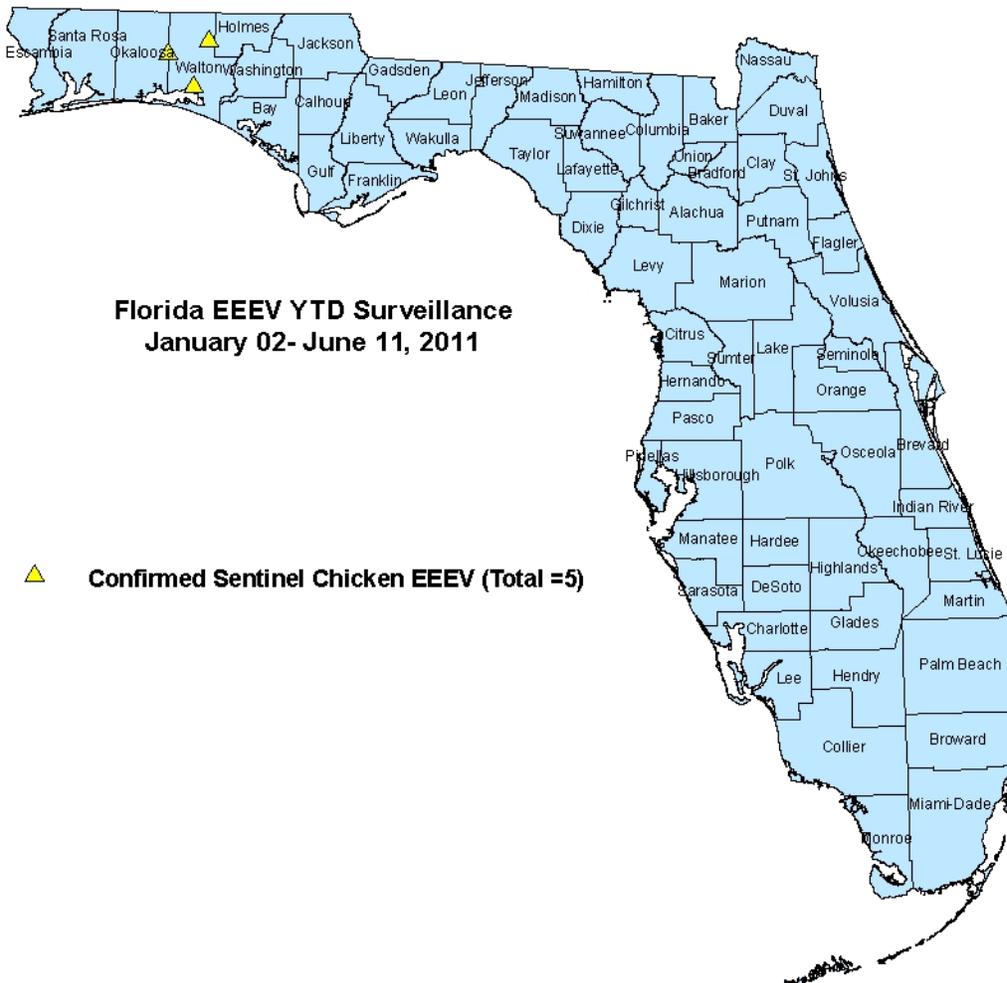
Out of 35 live wild birds collected from three counties on May 20 – June 2, 2011, one blue jay in Okaloosa County tested positive for antibodies to flavivirus.

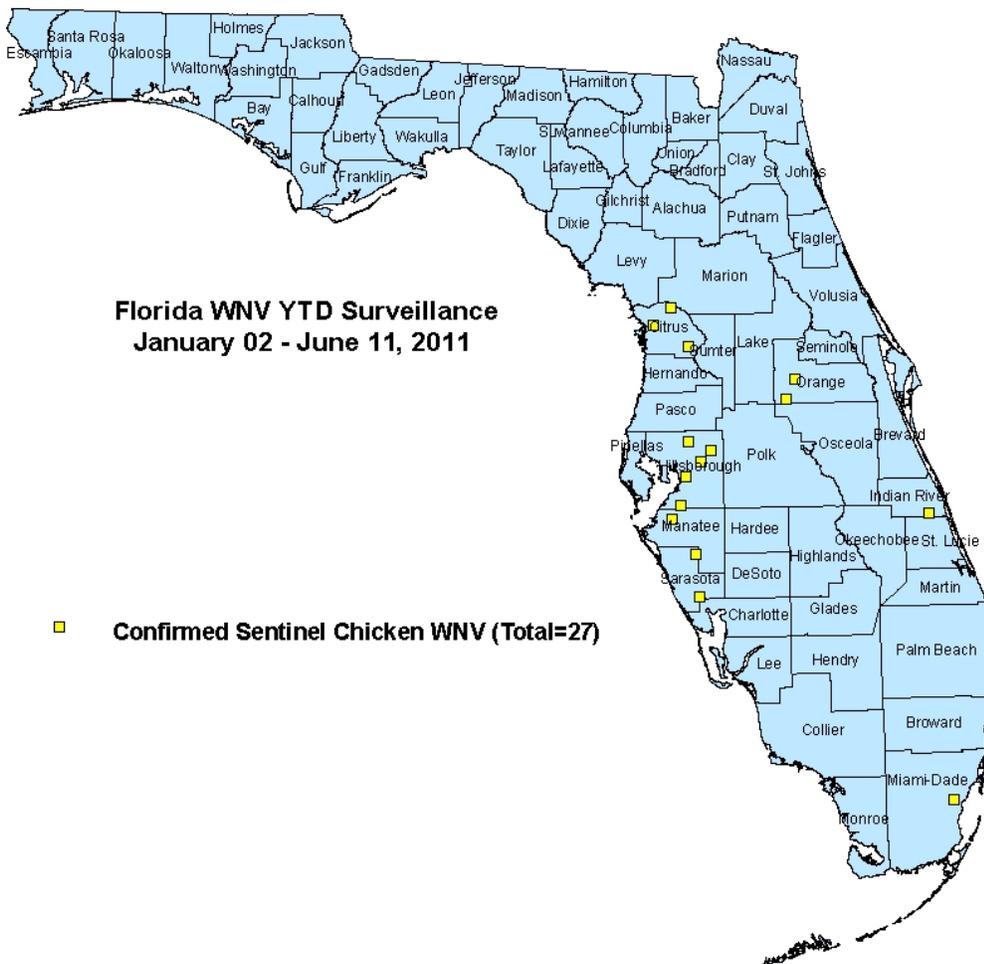
County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Okaloosa	5/31/11		1	Blue jay		1 out of 2	8 EEEV, 1 Flavi

## 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, 3 reports representing 3 dead birds were received from 3 counties. One was identified as crow and one as raptor. None were identified as jays. In 2011, one hundred and fifty one reports representing a total of 506 dead birds (14 crows, 36 jays, 40 raptors, 416 others) were received from 39 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>Citrus</b>	WNV: 3 sentinels (1/3, 1/11)
<b>Dade</b>	WNV: 1 sentinel (1/18)
<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>Okaloosa</b>	WNV: 1 live wild bird (flavivirus positive, 1 blue jay 5/31) EEE: 8 live wild birds (5 blue jays 1/10, 4/11, 4/25,5/16, 5/19; 1 cardinal 1/ 11 and 2 brown thrashers 2/21, 4/20)
<b>Orange</b>	WNV: 3 sentinels (1/3, 1/18, 1/24) HJV: 1 sentinel (2/24)
<b>Santa Rosa</b>	EEE: 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>	EEE: 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.