

Florida Arbovirus Surveillance

Week 8: February 21-27, 2010

Arbovirus surveillance in Florida includes endemic viruses West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and imported viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). During the period February 21-27, 2010, the following arboviral activity was recorded in Florida:

EEEV activity: One sentinel chicken in Walton County tested positive for antibodies to EEEV. In 2010, positive samples from four sentinel chickens and three live wild birds have been received from five of Florida's 67 counties.

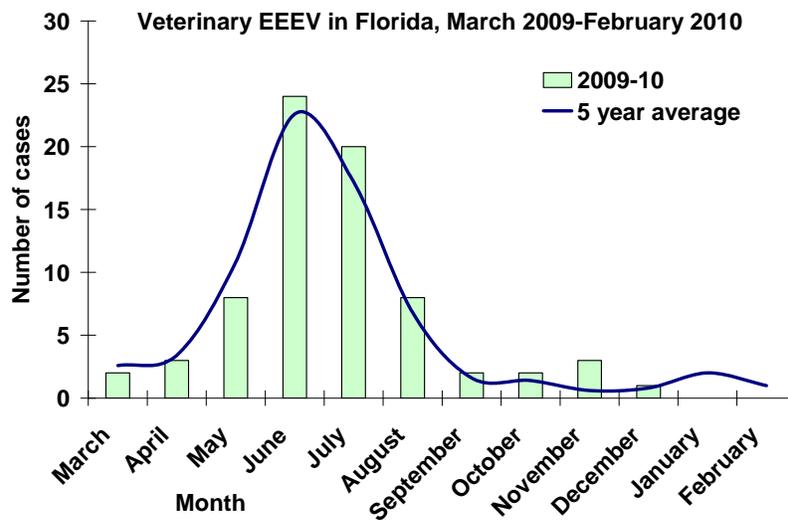
WNV activity: Three sentinel chickens in Walton County tested positive for antibodies to WNV. In 2010, positive samples from eight sentinel chickens have been received from three counties.

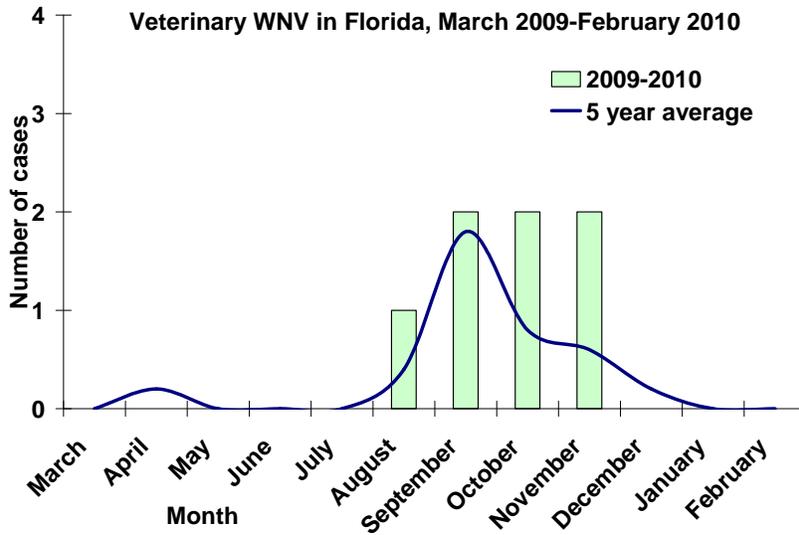
HJV activity: No HJV activity has been reported in 2010.

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

Veterinary Cases

No positive horses were reported this week.

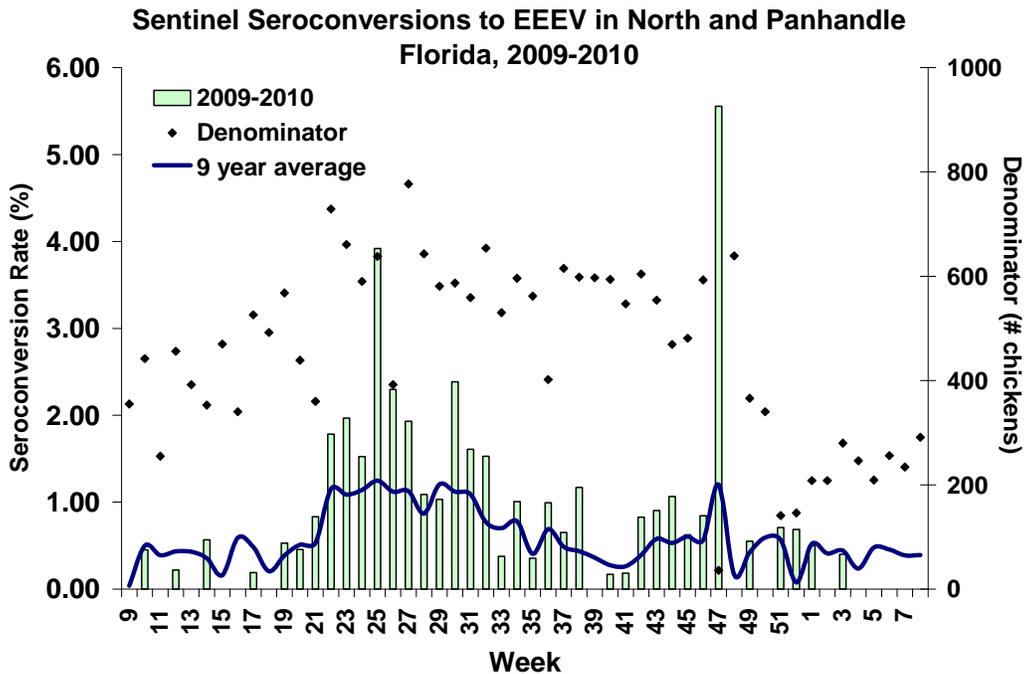


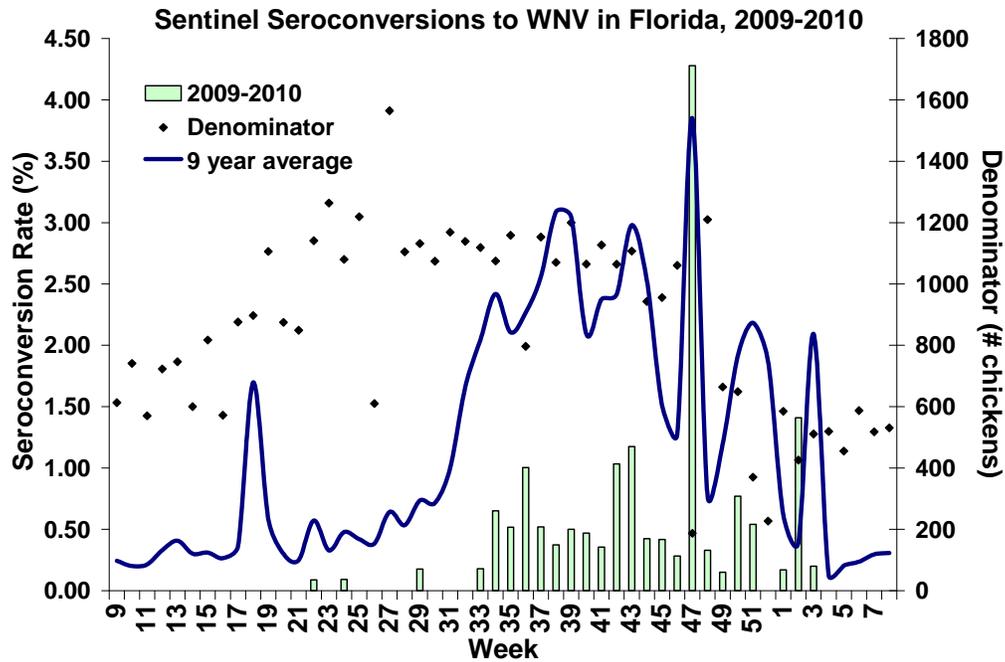


Sentinel Chickens

There were three seroconversions to WNV and one to EEEV in sentinel chickens from Walton County. Seroconversion rates are calculated by week and include previously reported results.

| County | Collection Date | Seroconversion Rates (%) | | | | County Totals | |
|----------------|-----------------|--------------------------|------|------|-----|---------------|--------------|
| | | SLEV | WNV | EEEV | HJV | Week | YTD |
| Walton (North) | 01/19/10 | | | 3.3 | | 1 EEE | 3 WNV, 1 EEE |
| | 01/14/10 | | 10.0 | | | 3 WNV | |





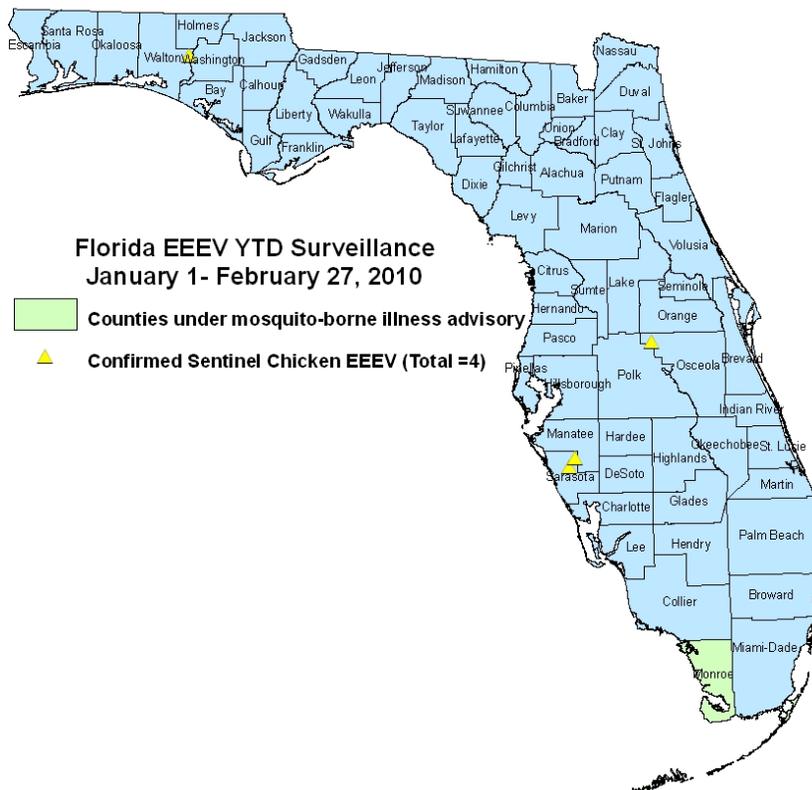
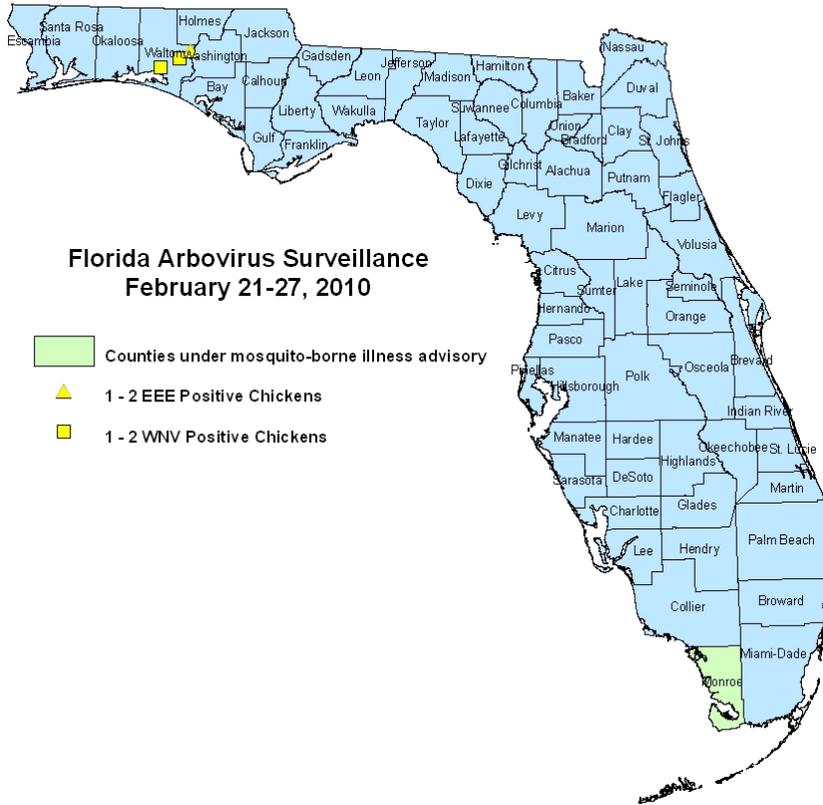
Live Wild Birds

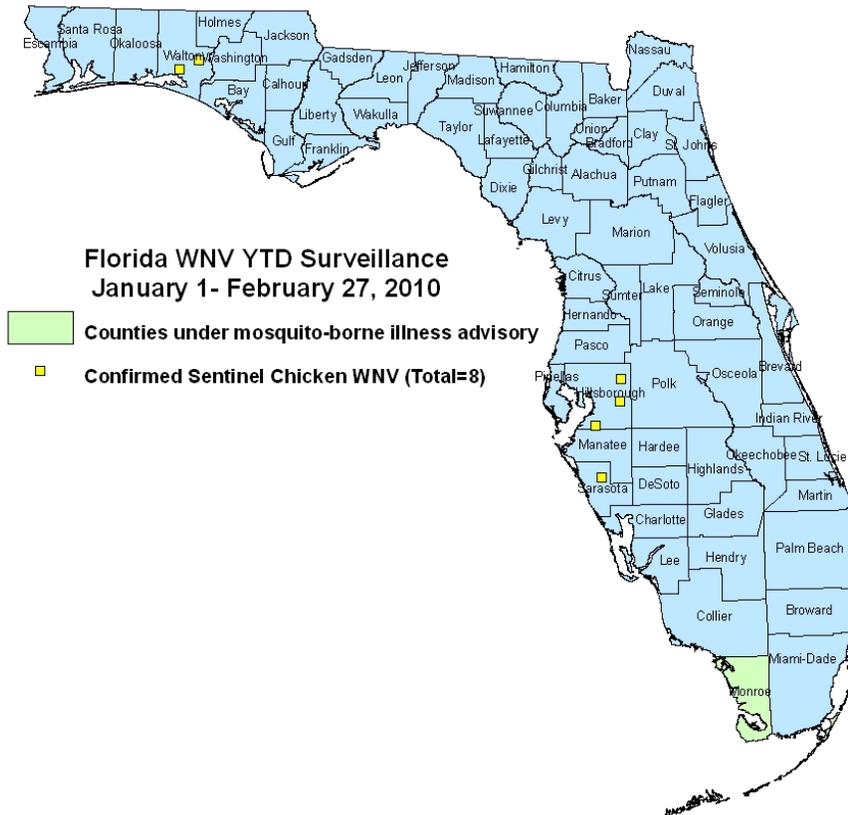
No live wild birds were reported this week.

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, nine reports representing 30 dead birds were received from eight counties. One was identified as a crow and one as a raptor. None were identified as jays. This week, two reports representing nine dead birds were received from two counties. None were identified as crows, jays, or raptors. In 2010, 45 reports representing a total of 160 dead birds (1 crow, 1 jay, 10 raptors, 148 others) have been received from 22 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 |
|--------------|--|
| Hillsborough | WNV : 4 sentinels (1/12, 1/19) |
| Okaloosa | EEE : 2 live wild birds (1 house sparrow 1/4, 1 blue jay 1/27) |
| Orange | EEE : 1 sentinel (1/7) |
| Santa Rosa | EEE: 1 live wild bird (1 blue jay 2/2) |
| Sarasota | EEE: 2 sentinels (1/5, 1/11) WNV : 1 sentinel (1/8) |
| Walton | EEE : 1 sentinel (1/19) WNV : 3 sentinels (1/14) |

Acknowledgements and Data Sources

Contributors: Elizabeth Radke, MPH, Kristina Weis, PhD, Danielle Stanek, DVM, and Carina Blackmore, DVM, PhD.

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.