

## Florida Arbovirus Surveillance

### Week 3: January 15 - January 21, 2012

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses 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 January 15 - January 21, 2012, 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 EEE was reported in Putnam County. Two sentinel chickens in Orange County tested positive for antibodies to EEEV. In 2012, positive samples from three equines and two sentinel chickens have been received from three counties.

**WNV activity:** No WNV activity was reported this week.

**SLEV activity:** No SLEV activity was reported this week. In 2012, positive samples from three sentinel chickens have been received from one county.

**HJV activity:** One sentinel chicken in Citrus County tested positive for antibodies to HJV.

**Advisories/Alerts:** Hillsborough and Levy counties are under mosquito-borne illness advisory. The Bahamas has also issued an alert due to high dengue activity:

<http://wwwnc.cdc.gov/travel/notices/outbreak-notice/dengue-bahamas.htm>

### Year to Date Human Case Summary

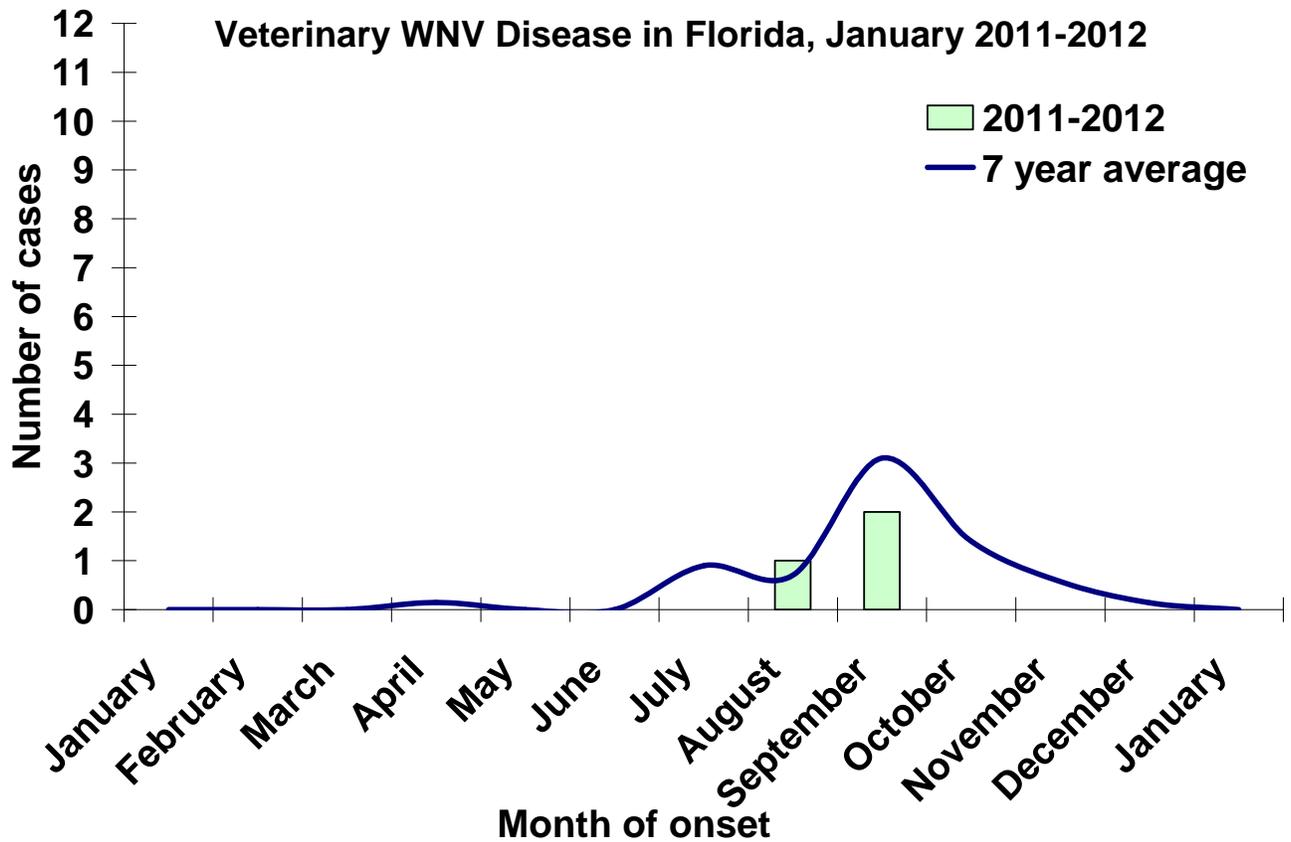
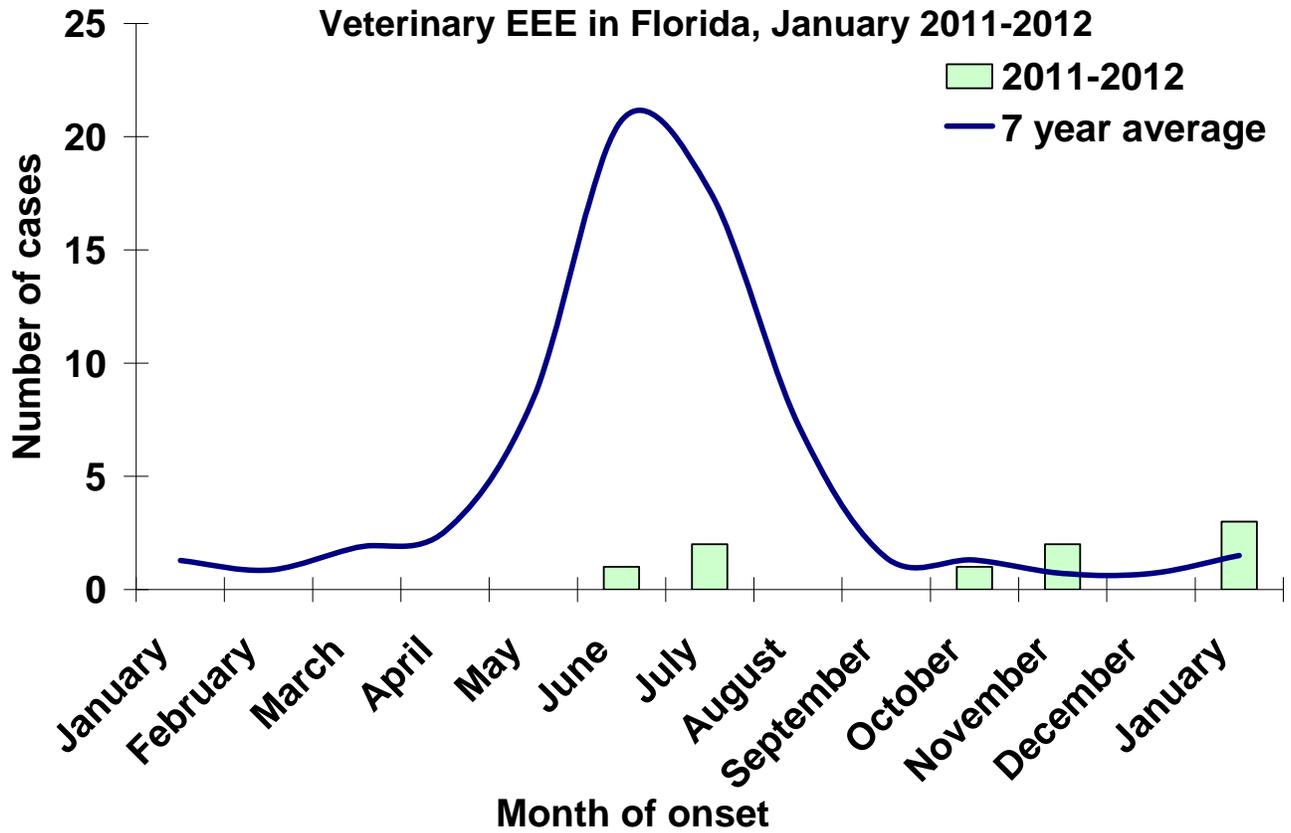
**Imported Dengue:** Three cases of dengue with onset in 2012 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were Surinam, Ghana and Guyana. County reporting cases was Broward (3).

**Imported Malaria:** Six imported cases of malaria with onset in 2012 have been reported. Countries of origin were: Haiti (5) and Nigeria. Counties reporting cases were: Broward (3), Marion, Orange and Palm Beach.

### Veterinary Cases

One horses in Putnam County tested positive for EEEV this week.

County	Onset Date	Species	Virus	Status	County YTD
Putnam	1/1/12	Equine	EEEV	Dead	1 EEEV



## Sentinel Chickens

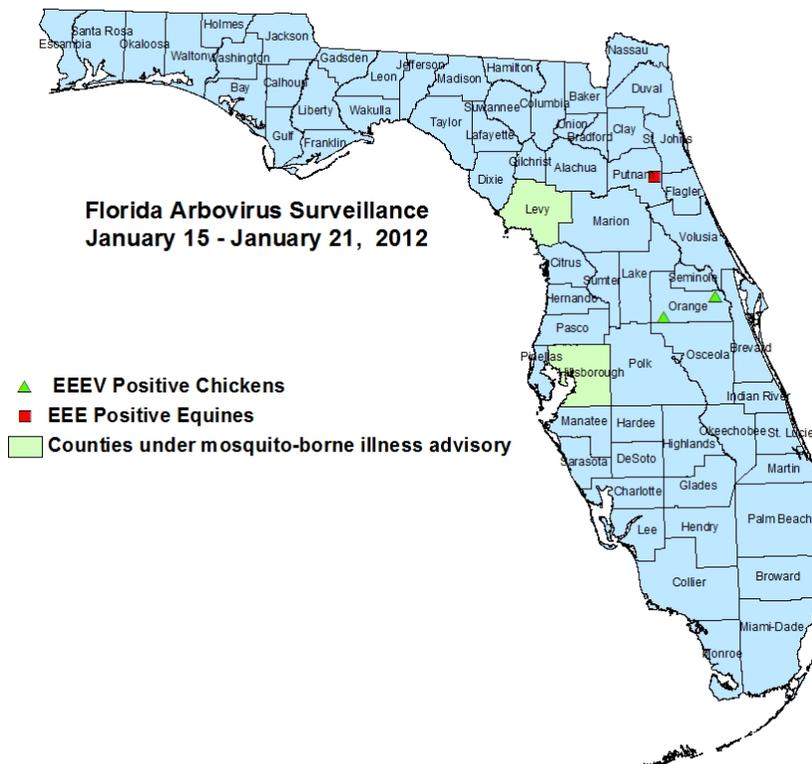
Two sentinel chickens in Orange County tested positive for antibodies to EEEV. One sentinel chicken in Citrus County tested positive for antibodies to HJV. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Date	Seroconversion Rates (%)				Week	County Totals	
		SLEV	WNV	EEEV	HJV		YTD	
Citrus	01/03/12				1.43	1 HJV	1 HJV	
Orange/Reedy	01/05/12			2.63		1 EEEV	1 EEEV	
Orange	01/09/12			2.27		1 EEEV	1 EEEV	

## 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, six reports representing 25 dead birds were received from six counties. One bird was identified as raptor; none were identified as crows or jays. In 2012, twenty-four reports representing a total of 73 dead birds (1 crow, 1 jay, 6 raptors, 65 others) were received from 16 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



## Arbovirus Activity by County

County	Arbovirus Activity
Citrus	HJV: 1 sentinel (1/3)
Hillsborough	SLEV: 3 sentinels (1/3)
Levy	EEEV: 2 horses (1/2)
Orange	EEEV : 2 sentinels (1/5, 1/9)
Putnam	EEEV: 1 horse (1/1)

## 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.