

# Florida Arbovirus Surveillance Week 31: July 27 – August 2, 2014

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), chikungunya virus (CHIKV) and California encephalitis group viruses (CEV). Malaria, a non-viral mosquito-borne disease is also included. During the period of July 27 – August 2, 2014 the following arboviral activity was recorded in Florida.

**WNV activity:** No human cases of WNV illness were reported this week. No horses with WNV infection was reported this week. Four sentinel chickens tested positive for antibodies to WNV this week in Brevard and Volusia Counties. In 2014, a positive sample from 12 sentinel chickens and 1 horse have been received from seven counties.

**EEEV activity:** No human cases of EEE were reported this week. Five horses with EEEV infection were reported this week in Clay, Columbia, Escambia and Marion Counties. Fourteen sentinel chickens tested positive for antibodies to EEEV this week in Alachua, Citrus, Nassau, Orange, Putnam, St. Johns and Walton Counties. In 2014, positive samples from 127 sentinel chickens, 2 deers, and 37 horses have been received from 27 counties.

**International Travel-Associated Dengue Fever Cases:** Four cases of dengue fever were reported this week in persons that had international travel. In 2014, 37 travel-associated cases have been reported.

**Dengue Fever Cases Acquired in Florida:** No cases of locally acquired dengue fever were reported this week. In 2014, a total of one case of locally acquired dengue fever has been reported.

**International Travel-Associated Chikungunya Fever Cases:** Twenty-two cases of chikungunya fever were reported this week in persons that had international travel. In 2014, 137 travel-associated cases have been reported.

**Chikungunya Fever Cases Acquired in Florida:** Two cases of locally acquired chikungunya fever were reported this week in Palm Beach and St. Lucie Counties. In 2014, a total of four cases of locally acquired chikungunya fever have been reported.

Advisories/Alerts: Alachua, Levy, Lafayette, Marion, Miami-Dade, Pasco, St. Lucie and Volusia Counties are currently under a mosquito-borne illness advisory. Palm Beach County is currently under a mosquito-borne illness alert. No other counties are currently under mosquito-borne illness advisory or alert. A CDC Health Alert Network (HAN) health advisory was issued in December for the Caribbean region announcing the first locally acquired cases of chikungunya fever in the Americas. There is a Level 1 (Watch) Travel Health Notice from the CDC for seven countries in the Caribbean related to the continued transmission of chikungunya. <u>http://wwwnc.cdc.gov/travel/notices/watch/chikungunya-saintmartin</u>

## 2014 Human Case Summary\*

**International Travel-Associated Dengue Fever Cases:** Thirty-seven cases of dengue with onset in 2014 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were: Bolivia, Brazil (2), Caribbean, Costa Rica, Cuba (13), Dominican Republic (6), Guadeloupe, Haiti, Honduras (2), Mexico, Puerto Rico (3), Sri Lanka, Trinidad (2), and Venezuela (2). Counties reporting cases were: Alachua, Brevard, Broward (3), Clay, Hillsborough (3), Manatee, Marion, Miami-Dade (16), Orange (3), Osceola (3), Pinellas, Seminole, St. Lucie, and Volusia. Four of the cases were reported in non-Florida residents. In 2014, 19 of the 37 cases of dengue reported in Florida have been serotyped by PCR. Additional serotyping and strain typing are being conducted.

	# of cases per serotype - 2014
DENV-1	7
DENV-2	7
DENV-3	1
DENV-4	3
DEN-1&2	1
	19

**Dengue Fever Cases Acquired in Florida:** In 2014, a total of one case of locally acquired dengue fever has been reported. One case of dengue in a Miami-Dade resident with onset in June, 2014 has been reported as acquired in Miami-Dade County.

**International Travel-Associated Chikungunya Fever Cases:** One hundred and thirty-seven cases of chikungunya with onset in 2014 have been reported in individuals with travel history to a chikungunya endemic country or area experiencing an outbreak in the two weeks prior to onset. Countries of origin were: Dominica, Dominican Republic (40), Guyana (2), Haiti (85), Martinique (2), and Puerto Rico (7). Counties reporting cases were: Alachua (2), Brevard (2), Broward (30), Charlotte, Clay (2), Duval (3), Escambia, Flagler, Hernando, Hillsborough (6), Indian River, Lake, Lee (2), Leon (2), Miami-Dade (22), Okaloosa, Orange (14), Osceola (4), Palm Beach (23), Pasco (2), Pinellas (3), Polk (6), Santa Rosa, Sarasota, Seminole (3), St. Lucie, and Volusia. Ten of the cases were reported in non-Florida residents.

**Chikungunya Fever Cases Acquired in Florida:** In 2014, a total of four cases of locally acquired chikungunya fever have been reported. One case of chikungunya fever in a Miami-Dade resident with onset in June, 2014 has been reported as acquired in Miami-Dade County. Two cases of chikungunya fever in Palm Beach residents with onset in July, 2014 have been reported as acquired in Palm Beach County. One case of chikungunya fever in a St. Lucie resident with onset in July, 2014 has been reported as acquired in St. Lucie County.

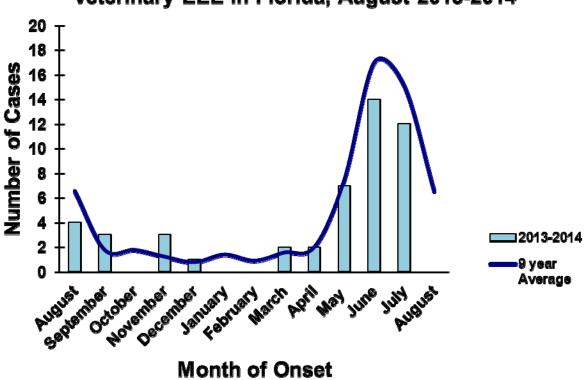
**International Travel-Associated Malaria Cases:** Thirty-one cases of malaria with onset in 2014 have been reported. Countries of origin were: Angola (3), Cameroon, Dominican Republic, Equatorial New Guinea (2), Ghana, Guatemala, Guyana (2), Haiti, India (2), Ivory Coast (2), Kenya, Nigeria (2), Peru, Sierra Leone (5), Sudan, Uganda (2), and multiple sub-Saharan African countries (3). Counties reporting cases were: Broward (5), Duval, Escambia, Hernando, Hillsborough (6), Miami-Dade (5), Okaloosa, Orange (3), Osceola, Palm Beach (3), Pasco, Pinellas (2), and Santa Rosa. Five of the cases were reported in non-Florida residents.

Twenty-two cases (71%) were diagnosed with *Plasmodium falciparum*. Six cases (20%) were diagnosed with *Plasmodium vivax*. Two case (6%) was diagnosed with *Plasmodium malariae*. One case (3%) was diagnosed with *Plasmodium ovale*.

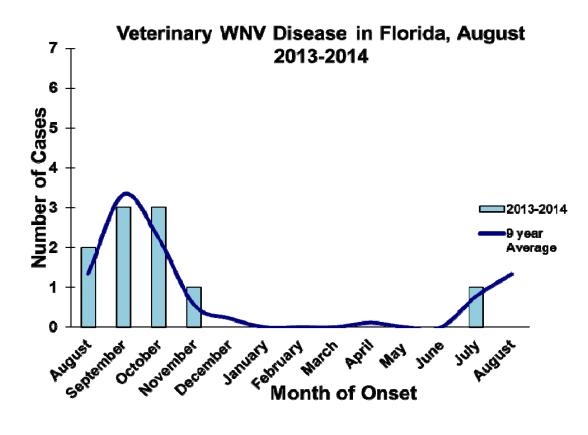
\*Veterinary cases are reported by date of onset

Five horses with EEEV infection were reported this week in Clay, Columbia, Escambia and Marion Counties.

County	Onset Date	Species	Virus	Status	County YTD
Clay	7/19/2014	Equine	EEEV	Alive	
	7/20/2014	Equine	EEEV	Euthanized	4 EEEV
Columbia	7/18/2014	Equine	EEEV	Euthanized	2 EEEV
Escambia	7/16/2014	Equine	EEEV	Euthanized	1 EEEV
Marion	7/14/2014	Equine	WNV	Euthanized	7 EEEV



Veterinary EEE in Florida, August 2013-2014

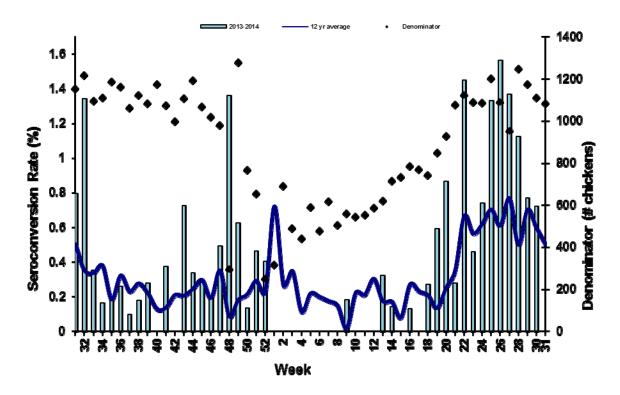


### **Sentinel Chickens**

The table below is for the reporting of confirmatory laboratory results from this week. Some of the samples were collected at earlier dates. The date of collection is recorded for samples collected on that day along with the total number of positives and the corresponding seroconversion rate for the week the sample was collected.

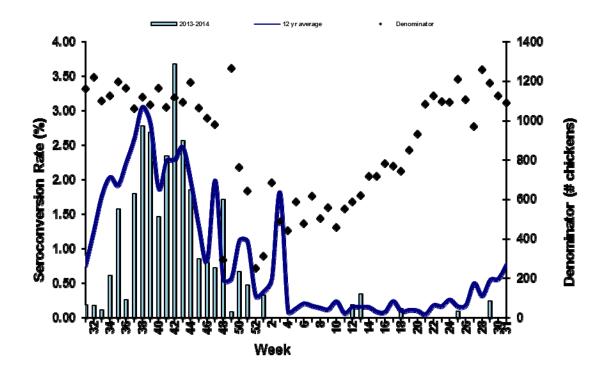
Fourteen sentinel chickens tested positive for antibodies to EEEV this week in Alachua, Citrus, Nassau, Orange, Putnam, St. Johns and Walton Counties. Four sentinel chickens tested positive for antibodies to WNV this week in Brevard and Volusia Counties. Two sentinel chickens tested positive for antibodies to SLEV this week in Pinellas County.

				Seroconversion Rates (%)				Cour	nty Totals
County	Collection Date	Flavi	SLEV	WNV	Alpha	EEEV	HJV	Collection Week	YTD
Alachua	7/14/2014				6.25	6.25		1 EEEV	
	7/21/2014				7.14	7.14		1 EEEV	8 EEEV
Brevard	7/17/2014	11.11		11.11				2 WNV	2 WNV
Citrus	7/21/2014				1.45	1.45		1 EEEV	12 EEEV, 2 HJV, 1 WNV
Nassau	7/11/2014				9.09	9.09		3 EEEV	
	7/19/2014				5.26	5.26		1 EEEV	11 EEEV
Orange	7/21/2014				1.74	1.74		2 EEEV	13 EEEV
Pinellas	7/21/2014	3.57	3.57					2 SLEV	2 SLEV
Putnam	7/22/2014				10.00	10.00		1 EEEV	6 EEEV
St. Johns	7/21/2014				3.85	3.85		2 EEEV	18 EEEV
Volusia	7/21/2014	4.44		4.44				2 WNV	3 EEEV, 3 WNV
Walton	7/14/2014				1.89	1.89		2 EEEV	
	7/21/2014				0.91	0.91		1 EEEV	22 EEEV, 5 HJV, 3 WNV



Sentinel Seroconversions to EEEV in Florida, 2013-2014

Sentinel Seroconversions to WNV in Florida, 2013-2014

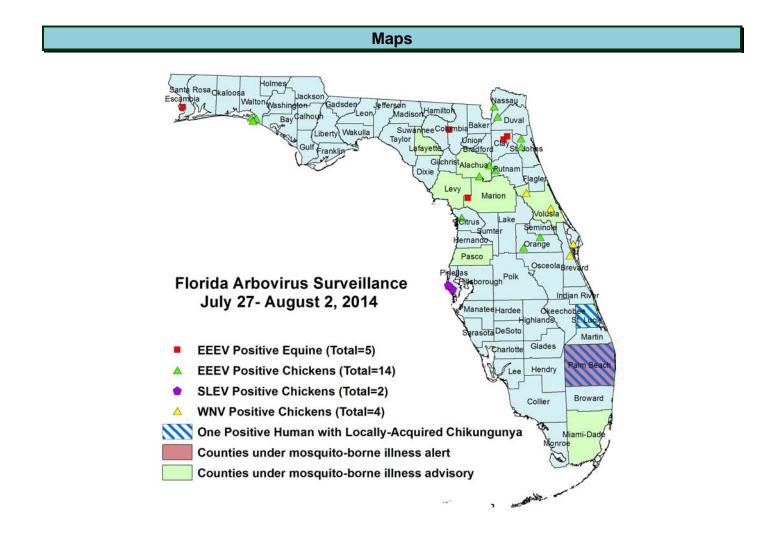


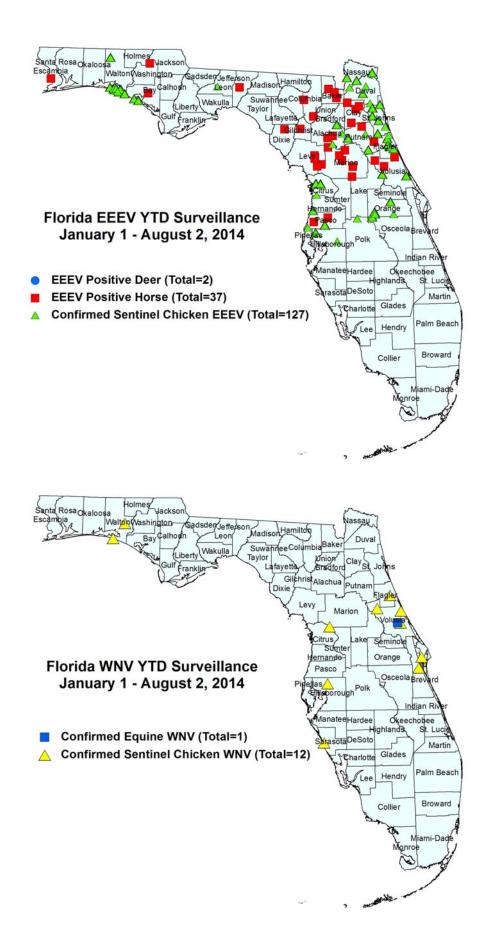
#### **Dead Birds**

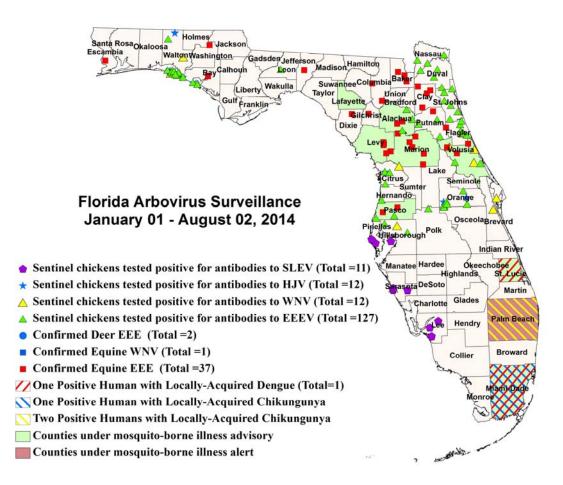
The Fish and Wildlife Conservation Commission (FWC) collects reports of dead birds, which can be an indication of arbovirus circulation in an area. This week, 2 reports representing 2 dead birds, including 1 crow were received from 1 county.

In 2014, 256 reports representing a total of 747 dead birds (26 crows, 3 jay, 48 raptors, and 26 doves) were received from 43 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 <a href="http://www.myfwc.com/bird/">www.myfwc.com/bird/</a>

County	Total Dead Birds	Crows	Jays	Raptors	Dove
Hillsborough	2	1	0	0	0







### 2014 Arbovirus Activity by County

County	Arbovirus Activity	
Alachua	EEEV: 3 horses (6/17, 6/20); 8 sentinels (6/9, 6/30, 7/7, 7/14, 7/21)	
Baker	EEEV: 3 horses (3/13, 7/10, 7/16)	
Вау	EEEV: 1 horse (6/15); 6 sentinels (4/28, 5/6, 5/13, 5/22, 5/30) HJV: 1 sentinel (2/18)	
Brevard	WNV: 2 sentinels (7/17)	
Citrus	EEEV: 12 sentinels (3/24, 3/31, 5/12, 5/26, 6/2, 6/30, 7/7, 7/14, 7/21) HJV: 2 sentinels (2/17, 2/24) WNV: 1 sentinel (1/2)	
Clay	EEEV: 4 horses (5/2, 7/16, 7/19, 7/20)	
Columbia	EEEV: 2 horses (6/25, 7/18)	
Dixie	EEEV: 1 horse (5/22)	
Duval	EEEV: 3 sentinels (6/16, 6/19, 6/30)	
Escambia	EEEV: 1 horse (7/16)	
Flagler	EEEV: 1 horse (4/21); 11 sentinels (4/14, 4/28, 5/5, 5/27, 6/2, 6/16, 6/23, 6/30, 7/7) WNV: 1 sentinel (7/14)	
Gilchrist	EEEV: 2 horses (5/18, 6/23)	
Hernando	EEEV: 2 sentinels (6/9, 7/9)	
Hillsborough	EEEV: 2 sentinels (5/13, 7/1) SLEV: 2 sentinels (1/7, 2/18) WNV: 1 sentinel (3/18)	
Jefferson	EEEV: 1 horse (7/7)	
Lafayette	EEEV: 2 deer (6/24)	
Lee	SLEV: 4 sentinels (1/13, 1/14, 2/11, 3/25)	
		0

Leon EEEV: 1 sentinel (7/14)   Levy EEEV: 4 horses (6/7, 6/21, 6/27, 6/28)   Marion EEEV: 7 horses (4/12, 5/31, 6/19, 6/26, 6/29, 7/4, 7/14)   Miami-Dade Chikungunya: 1 human (June) Dengue: 1 human (June)   Nassau EEEV: 11 sentinels (5/27, 5/31, 6/13, 6/20, 6/23, 6/27, 7/11, 7/19)   Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28)   WNV: 1 sentinel (4/25) St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/3) G/30, 7/21)   Watton EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/3) G/30, 7/7, 7/14, 7/21)   Watton EEEV: 2 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Watton EEEV: 2 sentinels (3/10, 3/17, 6/9)   Watton EEEV: 1 horse (7/15)	-	
Marion EEEV: 7 horses (4/12, 5/31, 6/19, 6/26, 6/29, 7/4, 7/14)   Miami-Dade Chikungunya: 1 human (June) Dengue: 1 human (June)   Nassau EEEV: 11 sentinels (5/27, 5/31, 6/13, 6/20, 6/23, 6/27, 7/11, 7/19)   Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Leon	EEEV: 1 sentinel (7/14)
Miami-Dade Chikungunya: 1 human (June) Dengue: 1 human (June)   Nassau EEEV: 11 sentinels (5/27, 5/31, 6/13, 6/20, 6/23, 6/27, 7/11, 7/19)   Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (f/21)   Polk EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton HJV: 5 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)	Levy	EEEV: 4 horses (6/7, 6/21, 6/27, 6/28)
Mami-Dade Dengue: 1 human (June)   Nassau EEEV: 11 sentinels (5/27, 5/31, 6/13, 6/20, 6/23, 6/27, 7/11, 7/19)   Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 5 sentinels (6/23, 6/30, 7/7)   Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28)   WNV: 1 sentinel (4/25) St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July) EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/3) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)	Marion	EEEV: 7 horses (4/12, 5/31, 6/19, 6/26, 6/29, 7/4, 7/14)
Dengue: 1 human (June)   Nassau EEEV: 11 sentinels (5/27, 5/31, 6/13, 6/20, 6/23, 6/27, 7/11, 7/19)   Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 5 sentinels (6/23, 6/30, 7/7)   Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28)   WNV: 1 sentinel (4/25) St. Johns   EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)   WNV: 1 horse (7/15); 3 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Miami-Dado	Chikungunya: 1 human (June)
Orange EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)   Palm Beach Chikungunya: 2 humans (July)   Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Miani-Daue	Dengue: 1 human (June)
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Pasco EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)   Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 5 sentinels (6/23, 6/30, 7/7)   Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Orange	EEEV: 13 sentinels (5/29, 6/5, 6/16, 6/19, 6/23, 6/25, 6/26, 7/7, 7/10, 7/21)
Pinellas SLEV: 2 sentinels (7/21)   Polk EEEV: 5 sentinels (6/23, 6/30, 7/7)   Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)	Palm Beach	Chikungunya: 2 humans (July)
Polk EEEV: 5 sentinels (6/23, 6/30, 7/7)   Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Pasco	EEEV: 2 horses (5/31, 6/25); 4 sentinels (5/27, 6/10, 7/15)
Putnam EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)   Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Pinellas	SLEV: 2 sentinels (7/21)
Sarasota SLEV: 3 sentinels (2/6, 2/14, 2/28) WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	Polk	EEEV: 5 sentinels (6/23, 6/30, 7/7)
Sarasota WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)   WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	Putnam	EEEV: 1 horse (6/17); 6 sentinels (5/27, 6/17, 6/24, 7/8, 7/15, 7/22)
WNV: 1 sentinel (4/25)   St. Johns EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)   St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)   WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	Saracota	SLEV: 3 sentinels (2/6, 2/14, 2/28)
St. Lucie Chikungunya: 1 human (July)   Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)   WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	Salasola	WNV: 1 sentinel (4/25)
Volusia EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9) WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   Walton EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21) HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16) WNV: 3 sentinels (3/10, 3/17, 6/9)	St. Johns	EEEV: 18 sentinels (5/5, 5/12, 5/27, 6/16, 6/23, 6/30, 7/21)
Volusia WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	St. Lucie	Chikungunya: 1 human (July)
WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)   EEEV: 22 sentinels (2/24, 5/12, 5/19, 5/27, 6/3, 6/9, 6/16, 6/23, 6/30, 7/7, 7/14, 7/21)   Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	Volucia	EEEV: 3 horses (3/19, 5/19, 5/24); 3 sentinels (5/27, 6/9)
Walton HJV: 5 sentinels (3/10, 3/24, 5/12, 5/19, 6/16)   WNV: 3 sentinels (3/10, 3/17, 6/9)	volusia	WNV: 1 horse (7/15); 3 sentinels (7/14, 7/21)
WNV: 3 sentinels (3/10, 3/17, 6/9)		
	Walton	
Washington EEEV: 1 horse (7/15)		WNV: 3 sentinels (3/10, 3/17, 6/9)
	Washington	EEEV: 1 horse (7/15)

### **Acknowledgements and Data Sources**

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#### For more surveillance information, please see the DOH website at:

http://www.floridahealth.gov/diseases-and-conditions/mosquito-borne-diseases/surveillance.html

# For arbovirus surveillance information for the United States, please see the Centers for Disease Control and Prevention website at: <u>http://www.cdc.gov/ncidod/dvbid/westnile/surv&control.htm</u>

\*\*Case tallies included in the weekly Florida arbovirus surveillance report include confirmed and probable cases for EEE, WNV infection, SLE, dengue, and malaria by date of onset. Suspect cases are not included. Activity is mapped by county of exposure rather than county of residence. Case definitions being used in Florida are consistent with national criteria provided by the Council of State and Territorial Epidemiologists (CSTE) and may be viewed at: <a href="http://www.floridahealth.gov/diseases-and-conditions/disease-reporting-and-management/disease-reporting-and-surveillance/index.html">http://www.floridahealth.gov/diseases-and-conditions/disease-reporting-and-management/disease-reporting-and-surveillance/index.html</a>

Case tallies reported by CDC do not include suspect cases and cases are reported by patient state of residence rather than where the exposure occurred. Data is provided by county health departments, Department of Health Bureau of Public Health Laboratories, Department of Agriculture and Consumer Services, mosquito control agencies, Florida Fish and Wildlife Conservation Commission, medical providers and veterinarians. Equine cases are provided by the Department of Agriculture and Consumer Services.