

# Florida Arbovirus Surveillance Week 41: October 7-13, 2018

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses such as West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), and St. Louis encephalitis virus (SLEV), as well as exotic viruses such as dengue virus (DENV), chikungunya virus (CHIKV) and California encephalitis group viruses (CEV). Malaria, a parasitic mosquito-borne disease is also included. During the period of October 7-13, 2018, the following arboviral activity was recorded in Florida.

**WNV** activity: One human case of WNV infection was reported this week in Duval County. One horse with WNV infection was reported this week in Hamilton County. Thirty-eight sentinel chickens tested positive for antibodies to WNV this week in Bay, Brevard, Charlotte, Duval, Indian River, Lee, Leon, Manatee, Martin, Nassau, Palm Beach, Polk, Sarasota, St. Johns, Sumter, Volusia, and Walton counties. In 2018, positive samples from 16 humans, two blood donors, five horses, one zebra, one crow, 27 mosquito pools, and 434 sentinel chickens have been reported from 30 counties.

**SLEV activity:** No human cases of SLEV infection were reported this week. One sentinel chicken tested positive for antibodies to SLEV this week in Charlotte County. In 2018, a positive sample from one sentinel chicken has been reported from one county.

**EEEV activity:** No human cases of EEEV infection were reported this week. No horses with EEEV infection were reported this week. No sentinel chickens tested positive for antibodies to EEEV this week. In 2018, positive samples from three humans, 51 horses, one mule, one donkey, one owl, one emu, five emu flocks, two mosquito pools, and 143 sentinel chickens have been reported from 31 counties.

**International Travel-Associated Dengue Fever Cases:** Two cases of dengue fever were reported this week in persons that had international travel. In 2018, 30 travel-associated cases have been reported.

Dengue Fever Cases Acquired in Florida: No cases of locally acquired dengue fever were reported this

**International Travel-Associated Chikungunya Fever Cases:** No cases of chikungunya fever were reported this week in persons that had international travel. In 2018, three travel-associated cases have been reported.

Chikungunya Fever Cases Acquired in Florida: No cases of locally acquired chikungunya fever were reported this week. In 2018, no cases of locally acquired chikungunya fever have been reported.

**International Travel-Associated Zika Fever Cases:** Four cases of Zika fever were reported this week in persons that had international travel. In 2018, 78 cases have been reported.

**Zika Fever Cases Acquired in Florida:** No cases of locally acquired Zika fever were reported this week. In 2018, no cases of locally acquired Zika fever have been reported.

**Advisories/Alerts**: Charlotte, Columbia, Lake, Manatee, Marion, Okeechobee, Orange, Putnam, Sarasota, St. Johns, Suwannee, Taylor, Volusia, and Walton counties are currently under a mosquito-borne illness advisory. Bay, Duval, Levy, and Nassau counties are currently under a mosquito-borne illness alert. No other counties are currently under mosquito-borne illness advisory or alert.

There are no areas of ongoing, active Zika transmission in Florida. For additional information on current CDC recommendations, please visit <a href="https://www.cdc.gov/zika/intheus/florida-update.html">https://www.cdc.gov/zika/intheus/florida-update.html</a>. For additional information on Zika virus cases from 2016 or 2017, including up-to-date numbers, please visit <a href="https://zikafreefl.org/">https://zikafreefl.org/</a>.

There is a Level 2 (Alert) Travel Health Notice from the CDC for multiple countries in Africa, the Caribbean, Central and South America, Southeast Asia, and Pacific Islands related to Zika virus transmission and an association with poor pregnancy outcomes. Pregnant women should consider postponing travel to these areas. There is also a Level 2 Travel Health Notice for Brazil and a Level 1 Travel Health Notice in Nigeria related to the transmission of yellow fever virus. Additional information on travel health notices can be found at the following link: <a href="http://wwwnc.cdc.gov/travel/notices">http://wwwnc.cdc.gov/travel/notices</a>. For a map of arboviral disease activity in the United States, please visit the following link: <a href="https://wwwn.cdc.gov/arbonet/maps/ADB\_Diseases\_Map/index.html">https://wwwn.cdc.gov/arbonet/maps/ADB\_Diseases\_Map/index.html</a>.

# 2018 Human Case Summary\*

West Nile Virus Illnesses Acquired in Florida: A total of 16 human cases of WNV illness acquired in Florida have been reported in 2018; four in Bay (July, September), one in Charlotte (August), seven in Duval (August, September), one in Manatee (July), two in Nassau (August), and one in Suwannee (August) counties. Two asymptomatic positive blood donors were reported from Bay (June) and Duval (August) counties.

**EEEV Infection Acquired in Florida:** Three human cases of Eastern equine encephalitis acquired in Florida have been reported in 2018 in Columbia (July), Taylor (May), and Volusia (July) counties.

**International Travel-Associated Chikungunya Fever Cases:** Three cases of chikungunya fever with onset in 2018 have been reported in individuals with travel history to a chikungunya endemic country in the two weeks prior to onset. Country of origin was: Brazil (2) and Kenya. Counties reporting the case were: Orange, Miami-Dade, and Seminole.

International Travel-Associated Dengue Fever Cases: Thirty cases of dengue fever with onset in 2018 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were: Bangladesh, Cuba (18), Haiti (5), Jamaica, Nigeria, Philippines, Thailand, and Venezuela (2). Counties reporting cases were: Broward (7), Duval, Hillsborough (4), Lake, Lee (3), Miami-Dade (10), Monroe, Orange, and Palm Beach (2). Two cases met the criteria for severe dengue (dengue shock syndrome [DSS] or dengue hemorrhagic fever [DHF]). Those at greater risk for DSS and DHF include persons with previous dengue infection, pregnant women, infants, the elderly, and those with co-morbidities. However, severe illness can also occur in those without any of these risk factors. In 2018, 27 cases of dengue reported in Florida have been serotyped by PCR. Additional serotyping and strain typing are being conducted.

	# of cases per serotype – 2018
DENV-1	7
DENV-2	18
DENV-3	2
Total	27

International Travel-Associated Zika Fever Cases: In 2018, 78 cases of Zika fever have been reported in individuals with travel history to a country or area experiencing Zika virus activity. Countries of origin were: Brazil (3), Brazil/Haiti, Brazil/Mexico, Cuba (19), Cuba/Mexico, Dominica, Dominican Republic, Guatemala (2), Guatemala/Mexico, Haiti (29), Honduras (5), Jamaica, Puerto Rico, Turks and Caicos, and Venezuela (11). Counties reporting cases were: Broward (5), Collier (31), Hernando, Hillsborough, Lee, Miami-Dade (21), Orange (9), Osceola (3), Palm Beach (4), Pinellas, and Walton. Fifteen cases were reported in non-Florida residents. Florida is monitoring a total of 59 pregnant women in 2018.

In addition, two individuals tested in 2018 reported travel in 2016 to both Miami-Dade County and countries with areas of active Zika virus transmission. Exposure location in 2016 could not definitively be determined.

International Travel-Associated Malaria Cases: Fifty-one cases of malaria with onset in 2018 have been reported. Countries of origin were: Afghanistan (2), Angola, Benin, Brazil, Cameroon, Dominican Republic, Ethiopia, Gabon, Ghana (3), Haiti (2), India (5), Kenya, Liberia (2), Mali/Togo, Nicaragua (4), Nigeria (18), Sierra Leone, South Africa, Tanzania, and Togo (3). Counties reporting cases were: Broward (12), Clay, Duval

(4), Escambia, Gadsden, Hillsborough (5), Miami-Dade (13), Okaloosa, Orange (3), Osceola, Palm Beach (3), Pasco, Polk, Sarasota, and Seminole (3). Nine cases were reported in non-Florida residents.

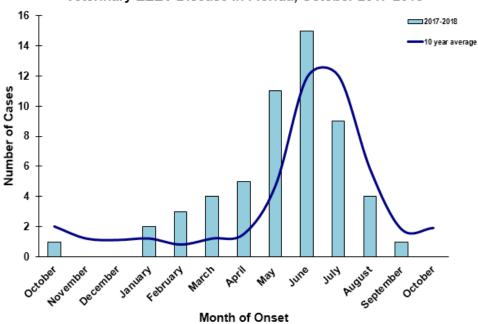
Thirty-two cases (63%) were diagnosed with *Plasmodium falciparum*. Fourteen cases (27%) were diagnosed with *Plasmodium vivax*. Three cases (6%) were diagnosed with *Plasmodium ovale*. Two cases (4%) were diagnosed with *Plasmodium malariae*.

# **Veterinary Cases\***

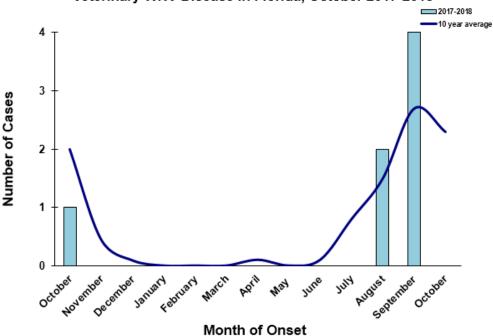
\*Veterinary cases are reported by date of onset. Only mammalian veterinary cases are included in the graphs.

One horse with WNV infection was reported this week in Hamilton County.





Veterinary WNV Disease in Florida, October 2017-2018



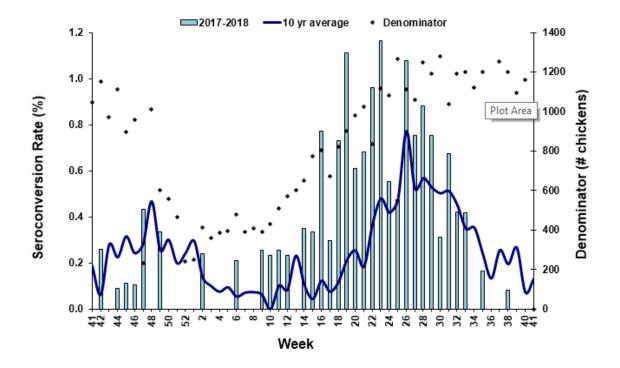
## **Sentinel Chickens\***

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.

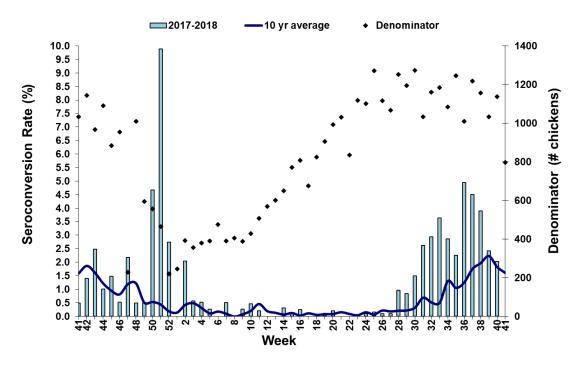
Thirty-eight sentinel chickens tested positive for antibodies to WNV this week in Bay, Brevard, Charlotte, Duval, Indian River, Lee, Leon, Manatee, Martin, Nassau, Palm Beach, Polk, Sarasota, St. Johns, Sumter, Volusia, and Walton counties. One sentinel chicken tested positive for antibodies to SLEV this week in Charlotte County.

		Seroconversion Rates (%)			County	/ Totals				
County	Collection Date	Flavi	SLEV	WNV	Alpha	EEEV	HJV	Collection Week	YTD	
Bay	10/1/18	5.88		5.88				1 WNV	17 WNV	
Brevard	9/26/18	1.56		1.56				1 WNV	6 WNV	
Charlotte	9/10/18	22.73	4.55					4 WNV, 1 SLEV	9 WNV, 1 SLEV	
Chanoue	9/28/18	2.44		2.44				1 WNV	9 WINV, I SLEV	
Duval	10/1/18	20.83		20.83				5 WNV	32 WNV, 4 EEEV	
Indian River	9/28/18	4.44		4.44				2 WNV	7 WNV	
Lee	10/2/18	2.44		2.44				2 WNV	6 WNV	
Leon	10/1/18	13.51		13.51				5 WNV	34 WNV, 12 EEEV, 1 HJV	
Manatee	10/1/18	5.00		5.00				2 WNV	20 WNV, 1 EEEV	
Martin	9/28/18	3.13		3.13				1 WNV	3 WNV	
Nassau	9/29/18	23.81		23.81				5 WNV	64 WNV, 10 EEEV, 1 HJV	
Dalas Danak	9/17/18	18.75		18.75				3 WNV		
Palm Beach	10/1/18	5.56		5.56				1 WNV	4 WNV	
	9/14/18	6.67		6.67				2 WNV		
Polk	9/28/18	3.70		3.70				1 WNV	6 WNV, 2 HJV	
	10/1/18	6.67		6.67				2 WNV		
Sarasota	9/28/18	8.33		8.33				1 WNV	50 WNV	
St. Johns	10/1/18	5.17		5.17				3 WNV	12 WNV, 36 EEEV, 1 HJV	
Sumter	10/2/18	2.86		2.86				1 WNV	6 WNV, 1 EEEV	
Volusia	10/1/18	2.13		2.13				1 WNV	4 WNV, 10 EEEV	
Walton	9/25/18	4.85		4.85				5 WNV	97 WNV, 29 EEEV, 1 HJV	

### Sentinel Seroconversions to EEEV in Florida, 2017-2018



### Sentinel Seroconversions to WNV in Florida, 2017-2018



<sup>\*</sup>Please note that a change in testing procedure starting on week 50 of 2017 resulted in an artificial spike in positive test results that cannot be directly compared with past results.

# **Mosquito Pools**

No mosquito pools tested positive for EEEV, WNV, or Zika this week.

County	Collection Date	Result	Species	County YTD
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#### **Dead Birds**

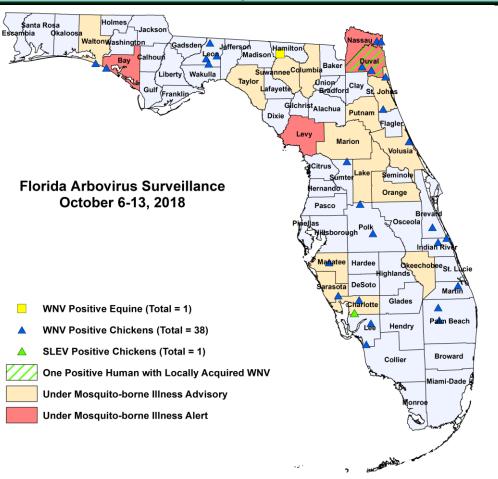
The Fish and Wildlife Conservation Commission (FWC) collects reports of dead birds, which can be an indication of arbovirus circulation in an area. This week, three reports representing a total of 24 dead birds, including two raptors, were received from two counties.

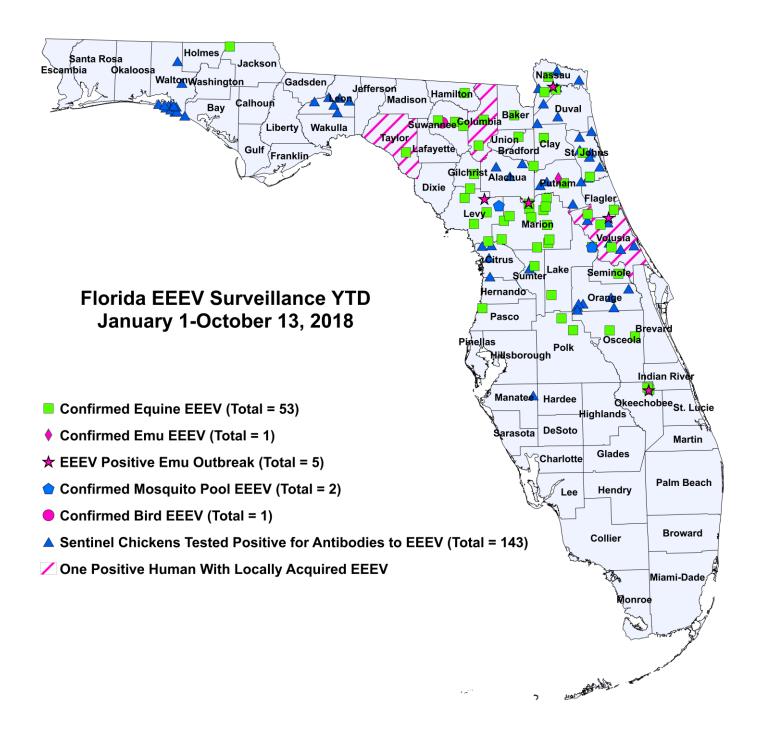
In 2018, 391 reports representing a total of 1066 dead birds (19 crows, 23 jays, 74 raptors, 34 doves) were received from 45 of Florida's 67 counties. Please note that FWC collects reports of birds that have died from a variety of causes, not only arboviruses. Dead birds should be reported to <a href="https://www.myfwc.com/bird/">www.myfwc.com/bird/</a>.

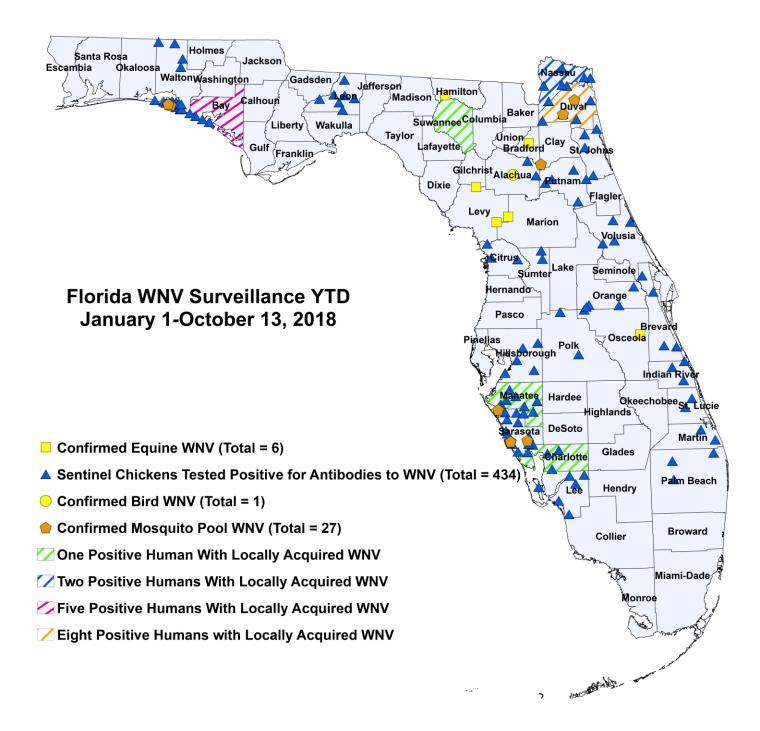
#### 2018

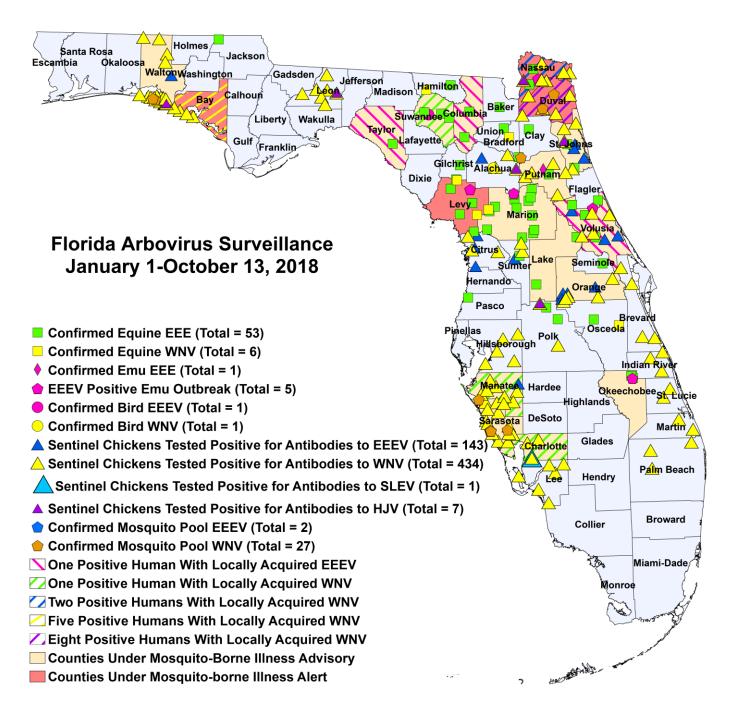
County	Total Dead Birds	Crows	Jays	Raptors	Dove
Leon	2	0	0	2	0
Pinellas	22	0	0	0	0

# Maps









	2018 Arbovirus Activity by County
County	Arbovirus Activity
Alachua	WNV: 1 crow (7/1), 16 sentinels (7/10, 7/18, 7/31, 8/7, 8/14, 9/4, 9/11, 9/18, 9/25) EEEV: 8 sentinels (5/15, 5/22, 6/5, 6/19, 6/26, 8/7) HJV: 1 sentinel (8/28)
Baker	EEEV: 1 horse (3/11)
Bay	WNV: 1 asymptomatic blood donor (June), 4 humans (July, September), 17 sentinels (7/9, 7/16, 7/30, 8/6, 8/13, 8/20, 9/24, 10/1)
Bradford	WNV 1 horse (9/10) EEEV: 1 horse (6/8)
Brevard	WNV: 6 sentinels (8/24, 9/10, 9/12, 9/19, 9/26)
Charlotte	WNV: 1 human (August), 8 sentinels (7/27, 8/10, 9/10, 9/14) SLEV: 1 sentinel (9/10)
Citrus	WNV: 5 sentinels (4/17, 9/4, 9/11) EEEV: 9 sentinels (1/8, 4/30, 5/7, 7/9, 7/23, 8/7, 8/14, 9/10)

Clay		
Columbia   EEEV: 1 human (July), 2 horses (3/5, 5/30)   Nurs 1 september), 2 mosquito pools (8/30, 9/26), 32 sentinels (7/13), 8/6, 8/13, 8/16, 8/27, 9/4, 9/10, 9/13, 9/17, 10/1)   EEEV: 1 horse (3/6)   Gilchrist   EEEV: 1 horse (3/6)   WNV. 1 horse (9/24)   EEEV: 1 horse (9/25)   EEEV: 1 horse (9/27)   EEV: 1 hor	Clay	
WWW. 1 asymptomatic blood donor (August), 7 humans (August, September), 2 mosquito pools (8/30, 92/6), 32 sentinels (7/30, 8/6, 8/13, 8/16, 8/27, 9/4, 9/10, 9/13, 9/17, 10/1)	Columbia	
Duval   9/26), 32 sentinels (71/30, 8/6, 8/13, 8/16, 8/27, 9/4, 9/10, 9/13, 9/17, 10/1)	Columbia	
Flagler   EEEV: 1 horse (3/6)	Duval	9/26), 32 sentinels (7/30, 8/6, 8/13, 8/16, 8/27, 9/4, 9/10, 9/13, 9/17, 10/1)
Gitchrist   WINV: 1 horse (9/24)   EEEV: 2 horses (5/4, 6/11)   WINV: 1 horse (9/29)   EEEV: 1 horses (3/2)   WINV: 1 horse (9/29)   EEEV: 1 horses (3/2)   WINV: 1 horse (9/29)   EEEV: 1 horses (3/2)   WINV: 1 horse (9/29)   WINV: 1 horse (9/20)   WINV: 7 sentinels (1/10, 1/16, 2/13, 3/6, 3/13, 4/3, 5/15, 8/29, 9/25)   WINV: 7 sentinels (8/23, 9/6, 9/13, 9/14, 9/21, 9/28)   WINV: 9 sentinels (8/23, 9/6, 9/13, 9/14, 9/21, 9/28)   WINV: 9 sentinels (6/3, 6/25, 7/8, 7/31, 8/8, 8/13, 8/27)   WINV: 9 sentinels (6/3, 6/25, 7/8, 7/31, 8/8, 8/13, 8/27)   WINV: 1 horse (8/10), 1 zebra (9/23)   WINV: 1 horses (8/10), 1 zebra (9/23)   EEEV: 1 horses (2/24, 3/5, 5/18), 1 mule (4/17), emu flock outbreak (3/2 for first emu), 1 mosquito pool (5/10)   WINV: 1 human (July), 20 sentinels (1/9, 2/13, 8/7, 8/14, 8/21, 8/27, 9/4, 9/11, 9/18, 9/25, 10/1)   EEEV: 1 sentinel (4/10)   WINV: 3 sentinels (8/17, 9/28)   EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)   HIV: 1 sentinel (7/15)   WINV: 2 horses (1/29, 3/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)   HIV: 1 sentinel (7/15)   WINV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)   WINV: 7 sentinels (7/10, 9/6, 9/10, 9/13)   EEEV: 1 horses (6/10)   WINV: 7 sentinels (8/17, 9/28)   WINV: 1 sentinel (7/15)   WINV: 1 sentinels (8/28, 8/28)   WINV: 1 sentinels (8/27, 3/3), 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)   WINV: 1 sentinels (8/27, 3/3), 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)   WINV: 1 sentinels (8/27, 3/3), 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)   WINV: 1 sentinels (8/28, 8/29, 9/13, 9/20)   EEEV: 1 horse (6/10)   WINV: 2 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)   EEEV: 2 horses (1/19, 5/25), 36 sentinels (6/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23	Flagler	
Hamilton		
Hallisborough   WINV: 11 sentinels (1/10, 1/16, 2/13, 3/6, 3/13, 4/3, 5/15, 8/29, 9/25)   Indian River   WINV: 7 sentinels (8/23, 9/6, 9/13, 9/14, 9/21, 9/28)   UNIV: 7 sentinels (8/23, 9/6, 9/13, 9/14, 9/21, 9/28)   UNIV: 7 sentinels (9/3, 9/10, 9/17, 9/28)   UNIV: 6 sentinels (9/3, 9/10, 9/17, 9/28)   UNIV: 34 sentinels (9/3, 9/10, 9/17, 9/28)   UNIV: 1 sentinel (7/19)   WINV: 1 sentinel (7/19)   UNIV: 1 sentinel (7/10)   UNIV: 3 sentinels (1/9, 2/13, 8/7, 8/14, 8/21, 8/27, 9/4, 9/11, 9/18, 9/25, 10/1)   EEEV: 13 shorises (2/28, 4/23, 5/3, 5/14, 6/1, 6/12, 6/19, 6/21, 7/20, 7/21, 7/24, 8/1, 8/29), 1 emu flock outbreak (5/2 for first emu)   UNIV: 3 sentinels (7/17, 2/8)   UNIV: 2 sentinels (7/17, 9/28)   UNIV: 2 sentinels (7/17, 9/28)   UNIV: 1 sentinel (7/19, 9/29)   UNIV: 1 sentinel (7/19, 9/29, 9/29)   UNIV: 1 sentinel (7/19, 9/28, 10/14)   UNIV: 2 sentinels (7/10, 9/6, 9/10, 9/13)   EEEV: 1 sentinels (7/10, 9/6, 9/10, 9/13)   EEEV: 1 sentinels (7/13, 9/14, 9/28, 10/1)   EEEV: 2 sentinels (7/13, 9/14, 9/28, 10/1)   EEEV: 2 sentinels (8/23, 8/29, 9/13, 9/20)   UNIV: 1 sentinels (8/23, 8/29, 9/13, 9/20)   EEEV: 1 senti	Gilchrist	EEEV: 2 horses (5/4, 6/11)
Indian River	Hamilton	
Jackson   EEEV: 1 horse (7/2)	Hillsborough	WNV: 11 sentinels (1/10, 1/16, 2/13, 3/6, 3/13, 4/3, 5/15, 8/29, 9/25)
Lake	Indian River	
Lee WNV: 6 sentinels (9/3, 9/10, 9/17, 9/28)  WNV: 34 sentinels (7/31, 8/1, 8/13, 8/20, 8/27, 9/4, 9/10, 9/17, 9/24, 10/1)  EEEV: 12 sentinels (6/5, 6/25, 7/9, 7/31, 8/8, 8/13, 8/27)  HJV: 1 sentinel (7/19)  WNV: 14 horse (8/10), 1 zebra (9/23)  EEEV: 3 horses (2/24, 3/5, 5/18), 1 mule (4/17), emu flock outbreak (3/2 for first emu), 1 mosquito pool (5/10)  Manatee WNV: 1 human (July), 20 sentinels (1/9, 2/13, 8/7, 8/14, 8/21, 8/27, 9/4, 9/11, 9/18, 9/25, 10/1)  EEEV: 1 sentinel (4/10)  Martion EEEV: 1 sentinel (4/10)  Martion WNV: 3 sentinels (8/17, 9/28)  WNV: 3 horses (2/28, 4/23, 5/3, 5/14, 6/1, 6/12, 6/19, 6/21, 7/20, 7/21, 7/24, 8/1, 8/29), 1 emu flock outbreak (5/2 for first emu)  Martin WNV: 3 sentinels (8/17, 9/28)  Nassau EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)  HJV: 1 sentinel (7/5)  Okeechobee EEEV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)  Orange WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)  EEEV: 1 sontinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)  Osceola EEEV: 2 horses (7/2, 8/26)  Palm Beach WNV: 4 sentinels (7/13, 9/14, 9/28, 10/1)  EEEV: 1 horse (8/20)  WNV: 1 horse (8/23)  WNV: 1 horse (8/23)  WNV: 1 horse (8/23), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)  EEEV: 1 horse (6/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)  WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 9/17, 9/28)  Beminole EEEV: 1 horse (6/29)  WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 1 horse (6/29)  WNV: 2 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)  HUM: 1 sentinels (8/27)  WNV: 2 sentinels (8/13), sentinels (6/12)  WNV: 3 sentinels (6/15), 1 sentinels (6/12)  WNV: 4 sentinels (6/15), 1 sentinels (6/12)  WNV: 5 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 s	Jackson	EEEV: 1 horse (7/2)
Leon EEEV: 12 sentinels (7/31, 8/1, 8/13, 8/20, 8/27, 9/4, 9/10, 9/17, 9/24, 10/1)  EEEV: 12 sentinels (6/5, 6/25, 7/9, 7/31, 8/8, 8/13, 8/27)  HJV: 1 sentinel (7/19)  WNV: 1 horse (8/10), 1 zebra (9/23)  EEEV: 3 horses (2/24, 3/5, 5/18), 1 mule (4/17), emu flock outbreak (3/2 for first emu), 1 mosquito pool (5/10)  Manatee WNV: 1 human (July), 20 sentinels (1/9, 2/13, 8/7, 8/14, 8/21, 8/27, 9/4, 9/11, 9/18, 9/25, 10/1)  EEEV: 1 sentinel (4/10)  Marion EEEV: 1 sentinels (8/17, 9/28)  Marvion WNV: 2 humans (August), 64 sentinels (7/12, 7/14, 7/27, 7/28, 8/2, 8/3, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/29, 9/29)  Nassau EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)  HJV: 1 sentinel (7/5)  Okeechobee EEEV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)  WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)  EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)  Osceola WNV: 1 horse (8/26)  EEEV: 2 horses (7/2, 8/26)  Palm Beach WNV: 4 sentinels (9/17, 10/1)  Pasco EEEV: 1 horse (6/10)  WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)  EEEV: 1 horse (6/10)  WNV: 1 sentinels (8/24)  Putnam WNV: 1 sentinels (8/24)  WNV: 1 sentinels (8/23)  WNV: 1 sentinels (8/24)  WNV: 1 sentinels (8/23)  WNV: 1 sentinels (8/23)  BEEV: 1 horse (6/11)  WNV: 1 sentinels (8/23)  BEEV: 1 horse (6/11)  WNV: 1 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 1 horse (6/11)  WNV: 1 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 1 horse (6/15), 1 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)  HJV: 1 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  St. Johns  WNV: 2 sentinels (8/27)  WNV: 1 sentinels (8/27)  WNV: 1 sentinels (8/27)  WNV: 1 sentinels (8/27)  WNV: 1 sentinels (6/15)  WNV: 2 sentinels (9/6)  WNV: 2 sentinels (9/6)  WNV: 1 sentinels (6/15)  WNV: 1 sentinels (6/12)  WNV: 1 human (August)	Lake	EEEV: 2 horses (5/24, 5/30), 1 mosquito pool (6/13)
Lev	Lee	WNV: 6 sentinels (9/3, 9/10, 9/17, 9/28)
Levy   EEEV: 3 horses (2/24, 3/5, 5/18), 1 mule (4/17), emu flock outbreak (3/2 for first emu), 1 mosquito pool (5/10)   WNV: 1 human (July), 20 sentinels (1/9, 2/13, 8/7, 8/14, 8/21, 8/27, 9/4, 9/11, 9/18, 9/25, 10/1)   EEEV: 1 sentinel (4/10)   EEEV: 1 sentinel (4/10)   EEEV: 1 sentinel (4/10)   EEEV: 3 horses (2/28, 4/23, 5/3, 5/14, 6/1, 6/12, 6/19, 6/21, 7/20, 7/21, 7/24, 8/1, 8/29), 1 emu flock outbreak (5/2 for first emu)   Martin   WNV: 3 sentinels (8/17, 9/28)   WNV: 2 humans (August), 64 sentinels (7/12, 7/14, 7/27, 7/28, 8/2, 8/3, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/22, 9/29)   Nassau   EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)   HJV: 1 sentinel (7/5)   HJV: 1 sentinel (7/5)   HJV: 1 sentinels (1/10, 9/6, 9/10, 9/13)   EEEV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)	Leon	EEEV: 12 sentinels (6/5, 6/25, 7/9, 7/31, 8/8, 8/13, 8/27) HJV: 1 sentinel (7/19)
### Airco	Levy	EEEV: 3 horses (2/24, 3/5, 5/18), 1 mule (4/17), emu flock outbreak (3/2 for first emu), 1 mosquito pool
Martin         outbreak (5/2 for first emu)           Martin         WNV: 3 sentinels (8/17, 9/28)           WNV: 2 humans (August), 64 sentinels (7/12, 7/14, 7/27, 7/28, 8/2, 8/3, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/22, 9/29)           Nassau         EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)           Disceptible         EEEV: 4 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)           Orange         WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)           EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)           Osceola         EEEV: 1 horse (8/26)           EEEV: 2 horses (7/2, 8/26)           Palm Beach         WNV: 4 sentinels (9/17, 10/1)           Pasco         EEEV: 1 horse (6/10)           WNV: 5 sentinels (8/23, 8/29, 9/13, 9/20)           Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 1 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29,	Manatee	
Martin         WNV: 3 sentinels (8/17, 9/28)           WNV: 2 humans (August), 64 sentinels (7/12, 7/14, 7/27, 7/28, 8/2, 8/3, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/22, 9/29)           Nassau         EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)           HJV: 1 sentinel (7/5)         Okeechobee         EEEV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)           Orange         WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)         EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)           Osceola         WNV: 1 horse (8/26)         EEEV: 2 horses (7/2, 8/26)           Palm Beach         WNV: 4 sentinels (9/17, 10/1)           Pasco         EEEV: 1 horse (6/10)           WNV: 2 sentinels (8/24)         WNV: 2 sentinels (8/24)           Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 1 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJ	Marion	
Nassau  WNV: 2 humans (August), 64 sentinels (7/12, 7/14, 7/27, 7/28, 8/2, 8/3, 8/11, 8/18, 8/25, 9/1, 9/8, 9/15, 9/22, 9/29)  PEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25, 5/31, 6/8, 6/23, 6/28, 7/5, 7/12)  HJV: 1 sentinel (7/5)  Okeechobee  EEEV: 2 horses (6/11, 6/17), 1 emu flock outbreak (6/3 for first emu)  Orange  WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)  EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)  WNV: 1 horse (8/26)  EEEV: 2 horses (7/2, 8/26)  Palm Beach  WNV: 4 sentinels (9/17, 10/1)  Pasco  EEEV: 1 horse (6/10)  WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)  EEEV: 2 horses (2/27, 7/9)  HJV: 2 sentinels (8/24)  Putnam  WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)  Seminole  EEEV: 1 horse (5/29)  WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  St. Johns  St. Johns  WNV: 2 sentinels (8/27)  St. Lucie  WNV: 2 sentinels (8/27)  St. Lucie  WNV: 3 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 sentinel (6/12)  WNV: 1 sentinels (7/12, 8/18, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 sentinel (6/12)	Martin	
HJV: 1 sentinel (7/5)	Nassau	9/22, 9/29) EEEV: 4 horses (1/29, 4/30, 5/25, 6/2), 1 emu flock outbreak (7/5 for first emu), 10 sentinels (5/17, 5/25,
Orange         WNV: 7 sentinels (1/10, 9/6, 9/10, 9/13)           EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)           Osceola         WNV: 1 horse (8/26)           EEEV: 2 horses (7/2, 8/26)           Palm Beach         WNV: 4 sentinels (9/17, 10/1)           Pasco         EEEV: 1 horse (6/10)           WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)           Polk         EEEV: 2 horses (2/27, 7/9)           HJV: 2 sentinels (8/24)         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           Wnv: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           Wnv: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           St. Johns         EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJV: 1 sentinel (8/27)           St. Lucie         WNV: 2 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           Wnvance         WNV: 1 human (August)		HJV: 1 sentinel (7/5)
Orange         EEEV: 13 sentinels (2/27, 3/13, 6/5, 6/7, 6/12, 6/14, 6/21, 6/26, 7/17, 8/2)           Osceola         WNV: 1 horse (8/26) EEEV: 2 horses (7/2, 8/26)           Palm Beach         WNV: 4 sentinels (9/17, 10/1)           Pasco         EEEV: 1 horse (6/10) WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)           Polk         EEEV: 2 horses (2/27, 7/9) HJV: 2 sentinels (8/24)           Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20) EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 9/17, 9/28)           Sarasota         4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)         EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJV: 1 sentinels (8/27)           St. Lucie         WNV: 2 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           WNV: 1 human (August)	Okeechobee	
Disception	Orange	
Palm Beach         WNV: 4 sentinels (9/17, 10/1)           Pasco         EEEV: 1 horse (6/10)           WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)           EEEV: 2 horses (2/27, 7/9)           HJV: 2 sentinels (8/24)           Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJV: 1 sentinel (8/27)           St. Lucie         WNV: 2 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           Suwrannee         WNV: 1 human (August)	Osceola	
Pasco         EEEV: 1 horse (6/10)           WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)           EEEV: 2 horses (2/27, 7/9)           HJV: 2 sentinels (8/24)           Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)         EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           St. Lucie         WNV: 2 sentinels (9/6)           Sumter         WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           WNV: 1 human (August)	Palm Beach	
Polk  WNV: 6 sentinels (7/13, 9/14, 9/28, 10/1)  EEEV: 2 horses (2/27, 7/9)  HJV: 2 sentinels (8/24)  Putnam  WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)  EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)  WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)  Seminole  EEEV: 1 horse (5/29)  WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)  HJV: 1 sentinel (8/27)  St. Lucie  WNV: 2 sentinels (9/6)  Sumter  WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 sentinel (6/12)  WNV: 1 human (August)		
Polk         EEEV: 2 horses (2/27, 7/9)		
Putnam         WNV: 16 sentinels (8/23, 8/29, 9/13, 9/20)           EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)           WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)           Seminole         EEEV: 1 horse (5/29)           WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJV: 1 sentinel (8/27)           St. Lucie         WNV: 2 sentinels (9/6)           Sumter         WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           WNV: 1 human (August)	Polk	EEEV: 2 horses (2/27, 7/9)
EEEV: 1 horse (4/21), 1 emu (2/13), 10 sentinels (5/30, 7/13, 7/18, 8/15, 8/29)  WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)  Seminole  EEEV: 1 horse (5/29)  WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)  HJV: 1 sentinel (8/27)  St. Lucie  WNV: 2 sentinels (9/6)  WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 sentinel (6/12)  WNV: 1 human (August)		
Sarasota  WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14, 9/17, 9/28)  Seminole  EEEV: 1 horse (5/29)  WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)  EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)  HJV: 1 sentinel (8/27)  St. Lucie  WNV: 2 sentinels (9/6)  WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)  EEEV: 1 horse (6/15), 1 sentinel (6/12)  WNV: 1 human (August)	Putnam	
Seminole         EEEV: 1 horse (5/29)           WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)           EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)           HJV: 1 sentinel (8/27)           St. Lucie         WNV: 2 sentinels (9/6)           Sumter         WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           WNV: 1 human (August)	Sarasota	WNV: 18 mosquito pools (7/3, 7/10, 7/24, 7/26, 8/2, 8/9, 8/23, 8/30, 9/7), 50 sentinels (1/12, 2/2, 4/2, 4/9, 4/16, 5/11, 5/18, 7/20, 7/27, 7/30, 8/3, 8/6, 8/10, 8/13, 8/17, 8/20, 8/24, 8/27, 8/31, 9/4, 9/7, 9/10, 9/14,
St. Johns       WNV: 12 sentinels (8/13, 8/27, 9/4, 9/10, 9/17, 10/1)         EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)         HJV: 1 sentinel (8/27)         St. Lucie       WNV: 2 sentinels (9/6)         Sumter       WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)         EEEV: 1 horse (6/15), 1 sentinel (6/12)         WNV: 1 human (August)	Seminole	
St. Johns       EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)         HJV: 1 sentinel (8/27)         St. Lucie       WNV: 2 sentinels (9/6)         Sumter       WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)         EEEV: 1 horse (6/15), 1 sentinel (6/12)         WNV: 1 human (August)	Jenniole	
St. Lucie         WNV: 2 sentinels (9/6)           Sumter         WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2)           EEEV: 1 horse (6/15), 1 sentinel (6/12)           WNV: 1 human (August)	St. Johns	EEEV: 2 horses (1/9, 5/25), 36 sentinels (4/16, 4/23, 4/30, 5/7, 5/14, 5/21, 5/29, 6/4, 6/18, 6/25, 7/16, 7/23)
Sumter WNV: 6 sentinels (7/24, 8/28, 9/11, 9/18, 10/2) EEEV: 1 horse (6/15), 1 sentinel (6/12) WNV: 1 human (August)	C4 Lucis	
EEEV: 1 horse (6/15), 1 sentinel (6/12)  WNV: 1 human (August)	St. Lucie	
	Sumter	EEEV: 1 horse (6/15), 1 sentinel (6/12)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Suwannee	WNV: 1 human (August) EEEV: 1 owl (4/6), 3 horses (6/4, 6/22, 7/14)

Taylor	EEEV: 1 human (May), 1 horse (5/31)
Union	EEEV: 1 horse (7/3)
	WNV: 3 sentinels (9/4, 9/17, 9/24)
Volusia	EEEV: 1 human (July), 1 emu flock outbreak (5/9 for first emu), 10 sentinels (4/9, 4/16, 4/23, 4/30, 5/7,
	5/21), 1 donkey (6/21), 2 horses (6/21, 8/1)
	WNV: 6 mosquito pools (7/10, 7/19, 8/22), 97 sentinels (1/9, 1/22, 1/23, 2/26, 6/11, 6/18, 6/25, 7/2, 7/9,
	7/16, 7/23, 7/30, 8/6, 8/13, 8/14, 8/20, 8/27, 8/28, 9/4, 9/10, 9/11, 9/17, 9/24, 9/25)
Walton	EEEV: 29 sentinels (2/5, 3/5, 3/19, 4/2, 4/16, 4/30, 5/1, 6/11, 6/25, 7/2, 7/9, 7/10, 7/16, 7/23, 7/30, 7/31,
	8/6, 8/9, 8/13)
	HJV: 1 sentinel (7/9)

## **Acknowledgements and Data Sources**

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For more surveillance information, please see the DOH website at: <a href="http://www.floridahealth.gov/diseases-and-conditions/mosquito-borne-diseases/surveillance.html">http://www.floridahealth.gov/diseases-and-conditions/mosquito-borne-diseases/surveillance.html</a>

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

Case tallies included in the weekly Florida arbovirus surveillance report include confirmed and probable cases for EEE, WNV infection, SLE, dengue, chikungunya, 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.