

Florida Arbovirus Surveillance Week 2: January 5-11, 2020

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), Zika virus (ZIKV), and California encephalitis group viruses (CEV). Malaria, a parasitic mosquito-borne disease is also included. During the period of January 5-11, 2020, the following arboviral activity was recorded in Florida.

There have been no reports in 2020 of arboviral disease cases in humans or horses and no antibody positive sentinels. Numbers here are for onsets in the 2019 calendar year unless otherwise noted.

WNV activity: No human cases of WNV infection were reported this week. No horses with WNV infection were reported this week. Two sentinel chickens tested positive for antibodies to WNV this week in Martin and Sarasota counties. In 2019, positive samples from two humans, one blood donor, ten horses, one eagle, and 781 sentinel chickens have been reported from 31 counties.

SLEV activity: No human cases of SLEV infection were reported this week. No sentinel chickens tested positive for antibodies to SLEV this week. In 2019, positive samples from seven sentinel chickens have been reported from seven counties.

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 2019, positive samples from 28 horses, one emu, one eagle, and 114 sentinel chickens have been reported from 31 counties.

International Travel-Associated Dengue Fever Cases: Five cases of dengue fever were reported this week in persons that had international travel. In 2019, 402 travel-associated cases have been reported.

Dengue Fever Cases Acquired in Florida: No cases of locally acquired dengue fever were reported this week. In 2019, 16 cases of locally acquired dengue fever have been reported.

International Travel-Associated Chikungunya Fever Cases: No cases of chikungunya fever were reported this week in persons that had international travel. In 2019, eight travel-associated cases have been reported.

Chikungunya Fever Cases Acquired in Florida: No cases of locally acquired chikungunya fever were reported this week. In 2019, no cases of locally acquired chikungunya fever have been reported.

International Travel-Associated Zika Fever Cases: No cases of Zika fever were reported this week in persons that had international travel. In 2019, 36 travel-associated cases have been reported.

Zika Fever Cases Acquired in Florida: No cases of locally acquired Zika fever were reported this week. In 2019, no cases of locally acquired Zika fever have been reported.

Advisories/Alerts: Broward, Hillsborough, Sumter, and Suwannee counties are currently under a mosquito-borne illness advisory. Miami-Dade County is currently under a mosquito-borne illness alert. No other counties are currently under mosquito-borne illness advisory or alert.

There is a Level 2 Travel Health Notice for Nigeria related to the transmission of yellow fever virus. There are also Level 1 Travel Health Notices for Central and South America, Mexico, the Caribbean, Asia, the Pacific Islands, Africa, and the Middle East related to the transmission of dengue virus, and for Ethiopia related to chikungunya transmission. Additional information on travel health notices can be found at the following link:

wwwnc.cdc.gov/travel/notices. For a map of arboviral disease activity in the United States visit: wwwn.cdc.gov/arbonet/maps/ADB_Diseases_Map/index.html.

2019 Human Case Summary*

West Nile Virus Illnesses Acquired in Florida: Two human cases of WNV illness acquired in Florida has been reported in 2019 in Duval (July) and Sumter (October) counties. One asymptomatic positive blood donor has been reported in 2019 from Bay County (August).

International Travel-Associated Chikungunya Fever Cases: Eight cases of chikungunya fever with onset in 2019 have been reported in individuals with travel history to a chikungunya endemic country in the two weeks prior to onset. Countries of origin were: Brazil, Haiti, India (3), and Thailand (3). Counties reporting cases were: Alachua, Lee, Manatee, Marion, Miami-Dade (2), Orange, and Palm Beach. Two cases were reported in non-Florida residents.

International Travel-Associated Dengue Fever Cases: Four hundred two cases of dengue fever with onset in 2019 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Counties reporting cases were: Alachua (4), Brevard (2), Broward (45), Charlotte, Citrus, Collier (4), Desoto, Duval (6), Hillsborough (22), Lake (2), Lee (13), Manatee (2), Marion, Miami-Dade (231), Orange (17), Osceola (3), Palm Beach (26), Pasco (4), Pinellas (3), Polk, Putnam, Sarasota (2), Seminole (4), St. Lucie (5), and Volusia. Twenty-five cases were reported in non-Florida residents. Thirteen 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 2019, 335 cases of dengue reported in Florida have been serotyped by PCR.* Please see the below table for a breakdown of cases by country of origin and serotype.

Country of Exposure	DENV-1	DENV-2	DENV-3	DENV-4	DENV-1/ DENV-2	DENV-1/ DENV-3	DENV-2/ DENV-3	Unknown*	Total
Cuba	18	189			3			33	243
Dominican Republic	24							4	28
Jamaica		2	20			1		5	28
Honduras	2	10	1					5	18
Nicaragua		11					1	5	17
Haiti	7	1						4	12
India		3	3	1				3	10
Mexico	2	3							5
Venezuela	5								5
Brazil		2						1	3
Dominica			2					1	3
El Salvador		2						1	3
Guatemala		1	2						3
Philippines		2						1	3
Belize		2							2
Colombia			1					1	2
Costa Rica		2							2
Thailand		2							2
Vietnam	2								2
Antigua and Barbuda			1						1
Asia	1								1
Bangladesh			1						1
Belize/Cuba/Honduras/Mexico		1							1
Cambodia/Thailand/Vietnam	1								1
Cayman Islands/Mexico		1							1
Central America/Mexico								1	1
Colombia/Venezuela								1	1
India/Malaysia								1	1
Malaysia/Singapore		1							1
Panama	1								1
Total	63	235	31	1	3	1	1	67	402

^{*} Serotyping for 4 cases are pending and will be added in future weeks.

Dengue Fever Cases Acquired in Florida: In 2019, 16 cases of locally acquired dengue fever have been reported in Broward, Hillsborough, and Miami-Dade (14) counties, with onsets in March, July (2), August (3), September (6), October (2), and December (2).

International Travel-Associated Zika Fever Cases: In 2019, 36 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, Colombia (1), Cuba (6), Guatemala (5), Haiti (11), Honduras (4), Jamaica, Nicaragua, Philippines, Puerto Rico, and Venezuela (3). Counties reporting cases were: Broward (5), Collier (3), Duval, Hillsborough (2), Indian River, Lee, Miami-Dade (17), Orange (4), Palm Beach, and Sarasota. Three cases were reported in non-Florida residents. Florida is monitoring a total of 23 pregnant women in 2019.

International Travel-Associated Malaria Cases: Seventy cases of malaria with onset in 2019 have been reported. Countries of origin were: Afghanistan, Angola (3), Central African Republic, Chad, Congo, Democratic Republic of the Congo (4), Gabon (2), Ghana (10), Guyana, India (4), Ivory Coast (6), Kenya (3), Liberia (3), Nicaragua, Nigeria (16), Papua New Guinea, Sierra Leone (2), Sudan, Togo, Uganda (4), Venezuela, and Zambia (3). Counties reporting cases were: Brevard (3), Broward (6), Duval (10), Hillsborough (5), Lake (2), Lee, Manatee, Miami-Dade (12), Okaloosa, Orange (9), Pasco (6), Pinellas (5), Polk (3), Seminole (4), Volusia and Washington. Twenty cases were reported in non-Florida residents.

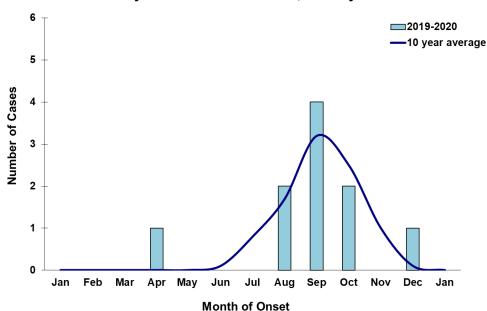
Fifty-six cases (80%) were diagnosed with *Plasmodium falciparum*. Nine cases (13%) were diagnosed with *Plasmodium vivax*. Three cases (4%) were diagnosed with *Plasmodium ovale*. Two cases (3%) were diagnosed with *Plasmodium malariae*.

Veterinary Cases*

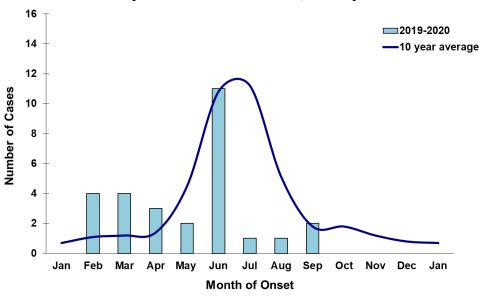
*Veterinary cases are reported by date of onset. Only mammalian veterinary cases are included in the graphs.

No horses with EEEV or WNV infection were reported this week.

Veterinary WNV Disease in Florida, January 2019-2020







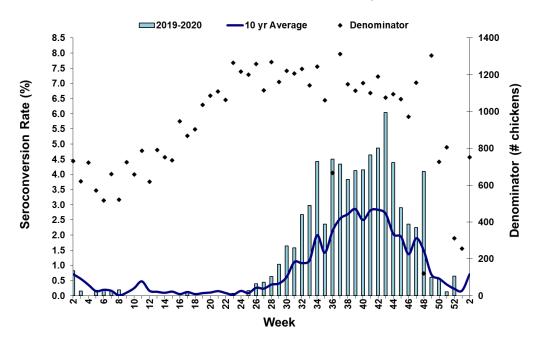
Sentinel Chickens*

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.

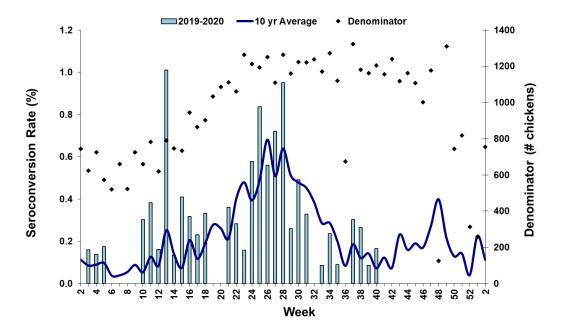
Two sentinel chickens tested positive for antibodies to WNV this week in Martin and Sarasota counties.

			Seroconversion Rates (%)			County Totals			
County	Collection Date	Flavi	SLEV	WNV	Alpha	EEEV	HJV	Collection Week	YTD
Martin	12/20/2019	3.13		3.13				1 WNV	23 WNV
Sarasota	12/26/2019	1.72		1.72				1 WNV	27 WNV, 1 SLEV

Sentinel Seroconversions to WNV in Florida, 2019-2020



Sentinel Seroconversions to EEEV in Florida, 2019-2020



Mosquito Pools

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

Count	ty Collection Date	Result	Species	County YTD
				_

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 a total of 11 dead birds, including three raptors were received from five counties.

In 2019, 404 reports representing a total of 840 dead birds (14 crows, 16 jays, 93 raptors, and 45 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 www.myfwc.com/bird/.

2019

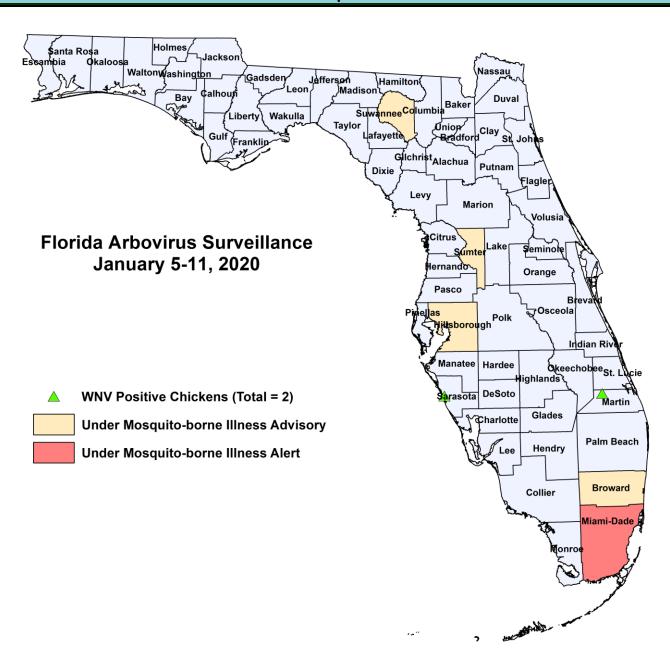
County	Total Dead Birds	Crows	Jays	Raptors	Doves
Brevard	2	0	0	0	0

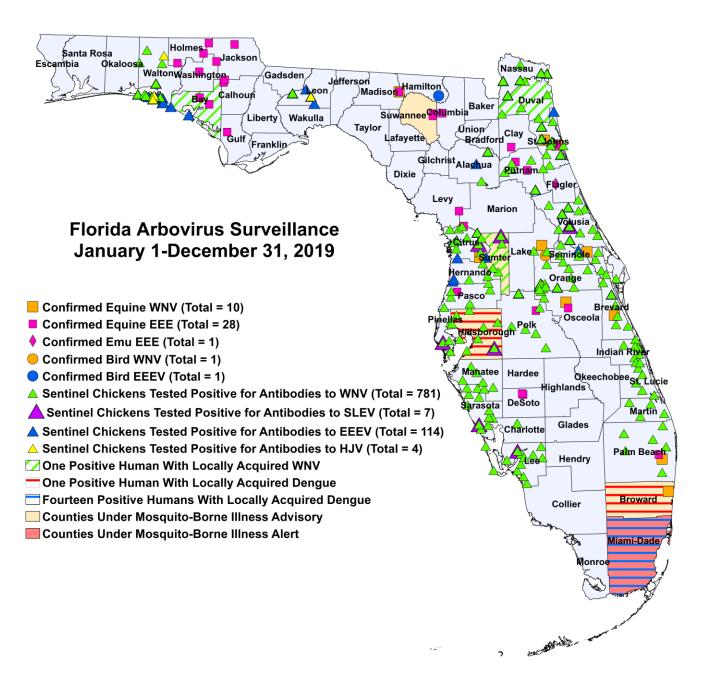
In 2020, ten reports representing a total of eleven dead birds (4 raptors) were received from eight of Florida's 67 counties.

2020

County	Total Dead Birds	Crows	Jays	Raptors	Doves
Brevard	1	0	0	1	0
Citrus	1	0	0	1	0
Manatee	1	0	0	0	0
Pinellas	4	0	0	1	0
St. Lucie	1	0	0	0	0
Volusia	1	0	0	0	0

Maps





	2019 Arbovirus Activity by County
County	Arbovirus Activity
Alachua	WNV: 5 sentinels (9/9, 9/13, 9/30, 11/18) EEEV: 2 sentinels (7/8, 8/19)
Bay	WNV: 1 asymptomatic blood donor (August) EEEV: 2 horses (2/24, 2/26), 9 sentinels (4/29, 7/1)
Brevard	WNV: 1 horse (8/27), 58 sentinels (1/3, 7/18, 7/19, 7/25, 7/26, 7/31, 8/1, 8/8, 8/14, 8/15, 8/16, 8/21, 8/22, 8/23, 9/12, 9/13, 9/18, 9/19, 9/20, 9/25, 10/9, 10/10, 10/11, 10/17, 10/18, 10/23, 10/24, 11/1, 11/13, 11/19) EEEV: 1 sentinel (7/18)
Broward	Dengue: 1 human (August) WNV: 1 horse (10/5)
Calhoun	EEEV: 3 horses (3/3, 3/22)
Charlotte	WNV: 11sentinels (7/23, 8/5, 10/18, 10/25, 11/1, 11/7)
Citrus	WNV: 1 horse (9/24), 76 sentinels (1/8, 1/29, 7/23, 8/6, 8/20, 8/27, 9/3, 9/10, 9/17, 9/24, 10/1, 10/8, 10/15, 10/22,10/29, 11/5, 11/12, 11/18, 12/3, 12/10) SLEV: 1 sentinel (10/22) EEEV: 1 horse (5/11), 6 sentinels (4/26, 6/18, 7/30, 9/10, 10/1)

Clay	EEEV: 1 horse (9/20)
Columbia	EEEV: 1 horse (3/30)
DeSoto	EEEV: 2 horses (6/23, 7/2)
Duval	WNV: 1 human (July), 19 sentinels (9/9, 9/23, 10/7, 10/14, 10/21, 10/28, 11/12)
Flagler	EEEV: 1 emu (3/17)
Gulf	EEEV: 1 horse (2/27)
Hamilton	EEEV: 1 eagle (3/21)
Harmanda	WNV: 8 sentinels (8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 11/4)
Hernando	EEEV: 2 sentinels (3/4, 9/16)
	Dengue: 1 human (September)
Hillsborough	WNV: 34 sentinels (8/20, 8/27, 9/3, 9/10, 9/17, 9/24, 10/1, 10/8, 10/15, 10/21, 10/22, 10/29, 11/5, 12/3,
	12/23)
Halmaa	SLEV: 1 sentinel (10/15)
Holmes	EEEV: 3 horses (6/1, 6/5, 6/20)
Indian River	WNV: 69 sentinels (1/10, 7/3, 7/5, 7/12, 719, 7/26, 8/2, 8/8, 8/9, 8/15, 8/16, 8/22, 8/23, 8/29, 9/5, 9/13, 9/19, 9/20, 10/3, 10/4, 10/10, 10/17, 10/18, 10/25, 10/30, 10/31, 11/7, 11/8, 11/22, 11/26, 12/6)
Jackson	EEEV: 1 horse (6/19)
Lake	WNV: 1 horse (10/6)
	WNV: 40 sentinels (7/9, 8/5, 8/6, 8/12, 8/19, 8/20, 8/27, 9/4, 9/9, 9/12, 9/16, 9/17, 9/26, 9/27, 9/30, 10/1,
Lee	10/7, 10/15, 10/28, 10/29, 11/5)
	SLEV: 1 sentinel (9/4)
1	WNV: 2 sentinels (9/3, 10/14)
Leon	EEEV: 7 sentinels (5/28, 6/10, 8/26, 9/10, 9/30)
Leva	HJV: 1 sentinel (8/19) EEEV: 1 horse (6/19)
Levy	WNV: 1 horse (4/1)
Madison	EEEV: 1 horse (4/1)
Manatee	WNV: 9 sentinels (2/5, 10/7, 10/15, 10/22, 11/5, 11/20)
Martin	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20)
Martin Miami-Dade	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2))
Martin	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20)
Martin Miami-Dade	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16)
Martin Miami-Dade	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23)
Martin Miami-Dade Nassau	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25)
Martin Miami-Dade Nassau Orange	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30)
Martin Miami-Dade Nassau	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10)
Martin Miami-Dade Nassau Orange Osceola	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28)
Martin Miami-Dade Nassau Orange	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3)
Martin Miami-Dade Nassau Orange Osceola Palm Beach	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18,
Martin Miami-Dade Nassau Orange Osceola	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20)
Martin Miami-Dade Nassau Orange Osceola Palm Beach	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14,
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14,
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/15, 11/22, 12/14, 9/13)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/12, 11/15, 11/
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/12, 11/15) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/12, 11/15, 11/22, 12/13, 12/26) SLEV: 1 sentinels (6/3, 7/15, 7/29, 8/20, 8/26, 9/9, 9/16, 9/23, 10/14, 11/18)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam Sarasota	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (6/3, 7/15, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/15, 11/15, 11/22, 12/13, 12/26) SLEV: 1 sentinel (0/18) WNV: 18 sentinels (6/3, 7/15, 7/29, 8/20, 8/26, 9/9, 9/16, 9/23, 10/14, 11/18) EEEV: 1 sentinel (4/8)
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam Sarasota Seminole	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 1 horse (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/14, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (2/15, 2/22, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/15, 11/15, 11/22, 12/13, 12/26) SLEV: 1 sentinel (10/18) WNV: 18 sentinels (6/3, 7/15, 7/29, 8/20, 8/26, 9/9, 9/16, 9/23, 10/14, 11/18) EEEV: 1 sentinel (4/8) WNV: 2 horses (9/7, 9/20), 54 sentinels (7/1, 7/19, 7/29, 8/5, 8/12, 8/19, 8/26, 9/23, 9/30, 10/7, 10/14,
Martin Miami-Dade Nassau Orange Osceola Palm Beach Pasco Pinellas Polk Putnam Sarasota	WNV: 23 sentinels (8/16, 8/29, 9/13, 9/20, 10/11, 10/25, 11/1, 11/15, 11/22, 11/25, 12/20) Dengue: 14 humans (March, July (2), August (2), September (5), October (2) December (2)) WNV: 23 sentinels (8/3, 8/17, 8/24, 9/7, 9/14, 9/21, 9/28, 10/12, 10/19, 10/26, 11/2, 11/9, 11/16) EEEV: 9 sentinels (6/21, 7/13, 7/27, 8/3, 9/21, 11/23) WNV: 1 eagle (6/22), 77 sentinels (1/7, 1/10, 1/14, 6/27, 6/20, 6/24, 7/1, 7/11, 7/22, 8/1, 8/8, 8/19, 8/22, 8/26, 9/9, 9/16, 9/23, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/11, 11/18, 11/19, 12/2) EEEV: 7 sentinels (6/17, 7/11, 7/18, 7/25, 11/25) WNV: 1 horse (8/30) EEEV: 1 horse (6/10) WNV: 28 sentinels (7/8, 7/22, 8/5, 8/19, 9/9, 9/16, 9/23, 10/7, 10/21, 10/28) EEEV: 2 horses (2/25, 12/3) WNV: 27 sentinels (8/28, 9/4, 9/24, 10/1, 10/9, 10/23, 10/30, 11/6, 11/13, 11/20, 11/25, 12/4, 12/11, 12/18, 12/23) EEEV: 1 horse (6/20) WNV: 12 sentinels (8/26, 9/9, 10/14, 10/21, 11/4, 11/12, 11/18) SLEV: 1 sentinel (9/30) WNV: 35 sentinels (7/8, 7/15, 7/22, 7/29, 8/5, 8/12, 8/16, 8/19, 8/29, 8/30, 9/6, 9/13, 9/24, 9/30, 10/14, 10/22, 10/25, 10/28, 11/1, 11/4, 11/12, 11/15) EEEV: 1 horse (4/24), 5 sentinels (5/21, 5/24, 5/31, 6/21, 6/28) WNV: 19 sentinels (6/24, 7/17, 7/24, 8/2, 8/7, 8/8, 8/16, 8/23, 9/13, 10/10) EEEV: 2 horses (4/28, 8/17), 4 sentinels (5/29, 6/12, 7/24, 9/13) WNV: 27 sentinels (6/3, 7/15, 7/29, 8/9, 8/19, 8/23, 9/3, 9/6, 9/10, 9/13, 9/16, 9/20, 10/7, 10/11, 10/14, 10/21, 11/1, 11/15, 11/15, 11/22, 12/13, 12/26) SLEV: 1 sentinel (0/18) WNV: 18 sentinels (6/3, 7/15, 7/29, 8/20, 8/26, 9/9, 9/16, 9/23, 10/14, 11/18) EEEV: 1 sentinel (4/8)

St. Lucie	WNV: 12 sentinels (8/1, 8/8, 8/15, 8/26, 9/6, 9/12, 9/25, 9/26, 10/3)
Sumter	WNV: 1 human (October), 12 sentinels (1/8, 9/18, 9/25, 10/4, 10/11, 10/28, 10/29, 11/13, 11/19) SLEV: 1 sentinel (9/25) EEEV: 1 sentinel (8/22)
Suwannee	EEEV: 2 horses (6/4, 6/7)
Volusia	WNV: 1 horse (9/10), 62 sentinels (6/17, 6/24, 7/1, 7/15, 7/22, 7/29, 8/5, 8/12, 8/12, 8/19, 8/26, 9/2, 9/9, 9/17, 9/23, 9/30, 10/7, 10/15, 10/18, 10/21, 11/11) SLEV: 1 sentinel (10/21) EEEV: 6 sentinels (1/14, 1/22, 1/28, 7/1, 7/15, 12/9)
Walton	WNV: 21 sentinels (4/23, 8/5, 8/26, 9/3, 9/17, 9/23, 9/30, 10/1, 10/14, 10/21, 10/29, 11/12, 11/18, 11/19, 12/2) EEEV: 45 sentinels (3/5, 3/11, 3/12, 3/18, 3/25, 3/26, 4/1, 4/9, 4/15, 4/23, 5/20, 6/3, 6/10, 6/17, 6/24, 7/1, 7/8, 7/22, 7/23, 9/9, 9/16, 9/23) HJV: 3 sentinels (6/3, 7/9, 7/29)
Washington	EEEV: 2 horses (5/28, 6/19)

Acknowledgements and Data Sources

Contributors: Andrea Morrison, PhD, MSPH, Devin Rowe, MS, Catherine McDermott, MPH, MHS, and Danielle Stanek, DVM, DOH Bureau of Epidemiology; Lea Heberlein-Larson, DrPH; Alexis LaCrue, PhD, MS; Maribel Castaneda, and Valerie Mock, BS; DOH Bureau of Public Health Laboratories; Carina Blackmore, DVM, PhD, DOH Division of Disease Control and Health Protection.

For more surveillance information, please see the DOH website at: 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: 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: https://www.floridahealth.gov/diseases-and-conditions/disease-reporting-and-management/disease-reporting-and-surveillance/index.html. 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.