

Florida Arbovirus Surveillance Week 39: September 26 – October 2, 2010

Arbovirus surveillance in Florida includes endemic mosquito-borne viruses West Nile virus (WNV), Eastern equine encephalitis virus (EEEV), St. Louis encephalitis virus (SLEV), and Highlands J virus (HJV) and exotic viruses such as Dengue virus (DENV) and California encephalitis group viruses (CEV). Malaria, a non-viral mosquito-borne disease is also included. During the period September 26-October 2, 2010, the following arboviral activity was recorded in Florida:

DENV activity: One new case of dengue associated with Key West was reported this week. In 2010, there have been 45 locally-acquired cases in Key West and one in Broward.

EEEV activity: Three sentinel chickens in Leon, Orange, and Putnam counties tested positive for antibodies to EEEV. In 2010, positive samples from four humans, 91 equines, 153 sentinel chickens, 34 live wild birds, and six mosquito pools have been received from 45 of Florida's 67 counties.

WNV activity: One WNV-confirmed positive horse was reported from Martin County. Sixtyseven sentinel chickens in Alachua, Brevard, Citrus, Duval, Flagler, Hendry, Indian River, Lee, Leon, Manatee, Martin, Nassau, Orange, Palm Beach, Putnam, Seminole, St. Johns, St. Lucie, Volusia, and Walton counties tested positive for antibodies to WNV. In 2010, positive samples from seven humans, 16 equines, 247 sentinel chickens, and one live wild bird (flavivirus positive) have been received from 30 counties.

SLEV activity: Two sentinel chickens in Miami-Dade County tested positive for antibodies to SLEV. In 2010, positive samples from two sentinel chickens have been received from one county.

HJV activity: No HJV activity was reported this week. In 2010, positive samples from 63 sentinel chickens have been received from 13 counties.

Advisories/Alerts: Martin County issued a mosquito-borne illness advisory this week. Monroe, Hillsborough, Orange and Collier counties are also under mosquito-borne illness alerts and Walton, Volusia, Clay, Osceola, Miami-Dade, Glades, Polk, Lake, Jackson, Washington, Jefferson, Wakulla, Leon, Madison, Broward, Marion, Putnam, Palm Beach, Flagler, Duval, De Soto, and Hendry counties are under mosquito-borne illness advisories.

Year to Date Human Case Summary

Eastern Equine Encephalitis Acquired in Florida: Four human cases of EEE have been reported in 2010 in Hillsborough (2), Wakulla, and Leon counties with onset dates in June and July (3).

West Nile Virus Infection Acquired in Florida: Seven human cases of WNV have been reported in 2010 in Osceola, Orange (2), Collier (2), Broward, and Duval counties with onset in July (2), August (4), and September.

Dengue Acquired in Florida: In 2010, one case of dengue has been reported as acquired in Broward County and 45 cases of dengue have been reported as acquired in Key West (Monroe County). Of the Key West cases, 36 are Key West residents, eight are residents of other Florida counties, and one resides out of state. Onset dates ranged from March 17 to September 9, 2010.

Imported Dengue: One hundred and eight cases of dengue with onset in 2010 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were: Brazil, Colombia (8), Costa Rica (4), Dominican Republic (12), Ecuador, El Salvador, Grenada (3), Guatemala (2), Haiti (5), Honduras (6), Jamaica (5), Martinique, Nicaragua (7), Philippines, Puerto Rico (32), Trinidad, Venezuela (13), Virgin Islands (3), Malaysia/Dubai/Bangladesh, and Panama/Venezuela (slash indicates travel to more than one country). Counties reporting cases were Alachua (2), Broward (19), Collier (2), Duval (2), Escambia, Flagler, Hendry, Hillsborough (7), Lake, Lee, Marion, Miami-Dade (37), Monroe, Orange (9), Osceola (4), Palm Beach (8), Pasco, Pinellas, Polk, Seminole (3), St. Lucie (2), and Volusia (3).

Imported Malaria: Ninety-two imported cases of malaria with onset in 2010 have been reported. Countries of origin were: Angola, Dominican Republic, Ghana (4), Guyana, Haiti (56), Honduras (3), India (7), Ivory Coast, Malawi (2), Nigeria (7), Philippines, South Africa, Togo, Uganda, West Africa, Zambia/South Africa, Africa, and unknown (2). Counties reporting cases were: Brevard (2), Broward (14), Charlotte, Citrus, Collier (4), Duval (4), Escambia (3), Hillsborough (4), Lake, Leon, Miami-Dade (18), Manatee (2), Orange (15), Osceola (3), Palm Beach (12), Pasco, Pinellas, Polk, Seminole, St. Lucie, Volusia, and Wakulla.

Veterinary Cases

One horse in Martin County tested positive for WNV. In 2010, 16 WNV positive horses and 91 EEEV positive horses have been reported.





Sentinel Chickens

There were three seroconversions to EEE in sentinel chickens from Leon, Orange, and Putnam counties, 67 to WNV in Alachua, Brevard, Citrus, Duval, Flagler, Hendry, Indian River, Lee, Leon, Manatee, Martin, Nassau, Orange, Palm Beach, Putnam, Seminole, St. Johns, St. Lucie, Volusia, and Walton counties, and two to SLEV in Miami-Dade County this week. Seroconversion rates are calculated by week and include previously reported results.

County	Collection	Seroconversion Rates (%)		County T	otals
	Date	SLEV WNV EE	EV HJV	Week	YTD
Alachua	09/07/2010	4.5		1 WNV	4 WNV, 3 EEE
	09/13/2010	4.5		1 WNV	
Brevard	09/17/2010	3.9		2 WNV	18 WNV, 1 EEE
Citrus	09/20/2010	3.0		2 WNV	2 WNV, 5 EEE, 3 HJV
Duval	09/13/2010	4.0		1 WNV	1 WNV, 5 EEE
Flagler	09/13/2010	15.4		2 WNV	2 WNV, 17 EEE, 3 HJV
Hendry	08/18/2010	20.0		2 WNV	8 WNV
	08/31/2010	75.0		6 WNV	
Indian River	09/09/2010	2.2		1 WNV	11 WNV
	09/16/2010	4.9		2 WNV	
Lee	08/30/2010	5.1		4 WNV	22 WNV
	09/07/2010	2.5		1 WNV	
	09/13,	9.8		4 WNV	
	09/14/2010				
	09/20/2010	1.9		1 WNV	
Leon	09/07/2010	2	2.5	1 EEE	1 WNV, 7 EEE, 2 HJV
	09/20/2010	2.6		1 WNV	
Manatee	09/13/2010	1.5		1 WNV	6 WNV

County	Collection	Seroconversion Rates (%) SLEV WNV EEEV HJV		County T			
	Date			EEEV	ΠJV	Week	YTD
	09/20/2010		3.0			2 WNV	
Martin	09/10/2010		5.3			1 WNV	4 WNV, 2 EEE
	09/16/2010		5.3			1 WNV	
Miami-Dade	08/23/2010	5.0				1 SLEV	2 SLEV, 2 EEE
	09/20/2010	5.0				1 SLEV	
Nassau	09/20/2010		11.8			4 WNV	5 WNV, 6 EEE, 8 HJV
Orange	08/30,		5.9			6 WNV	30 WNV, 23 EEE, 22 HJV
	09/02/2010						
	09/07/2010		2.1	1.0		2 WNV,	
	00/40		2.0	1.0		1 EEE	
	09/13, 09/16/2010		3.0	1.0		3 WNV, 1 EEE	
Palm Beach	09/07/2010		2.4			5 WNV	30 WNV
	09/13/2010		1.3			3 WNV	
	09/20/2010		1.3			4 WNV	
Putnam	09/09/2010			8.3		1 EEE	4 WNV, 6 EEE, 2 HJV
	09/17/2010		16.7			2 WNV	
Seminole	09/16/2010		6.3			1 WNV	2 WNV, 1 EEE, 1 HJV
St. Johns	09/07/2010		1.8			1 WNV	11 WNV, 3 EEE, 3 HJV
	09/13/2010		5.3			3 WNV	
St. Lucie	09/10/2010		8.3			2 WNV	4 WNV
	09/17/2010		10.0			2 WNV	
Volusia	09/07/2010		13.0			3 WNV	13 WNV, 16 EEE, 3 HJV
	09/13/2010		8.7			2 WNV	
	09/20/2010		4.3			1 WNV	
Walton (North)	09/02/2010		11.8			4 WNV	50 WNV, 27 EEE, 7 HJV





Out of 24 live wild birds collected from three counties on March 22-25, 2010, one blue jay tested positive for antibodies to EEEV.

County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Santa Rosa	08/31/2010	2		1 Blue jay, 1 Cardinal	2 out of 8	N/A	15 EEE
	09/14/2010	1		1 Blue jay	1 out of 7	N/A	
Okaloosa	09/16/2010	1		1 Blue jay	1 out of 6	N/A	12 EEE

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, five reports representing five dead birds were received from four counties. One was identified as a crow; none were identified as jays or raptors. In 2010, 267 reports representing a total of 839 dead birds (47 crows, 12 jays, 44 raptors, 736 others) have been reported 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/





YTD Arbovirus Activity by County

County	Arbovirus Activity
Alachua	WNV: 4 sentinels (8/2, 8/16, 9/7, 9/13)
	EEE: 1 horse (7/21); 3 sentinels (7/16, 7/19, 8/2)
Baker	EEE: 1 horse (7/26)
Bradford	EEE: 1 horse (6/16)
Brevard	WNV: 18 sentinels (7/7, 7/21, 8/4, 8/11, 8/18, 8/20, 9/1, 9/3, 9/17)
	EEE: 1 sentinel (6/2)
Broward	DENV: 3 humans (1 acquired in Broward, 2 acquired in Key West)
	WNV: 1 human (August)
Charlotte	WNV: 1 setinel (8/27)
Citrus	WNV: 2 sentinels (9/20)
	EEE: 5 sentinels (5/24, 6/7, 6/28, 7/12, 7/19)
	HJV: 3 sentinels (5/17, 5/24, 8/9)
Clay	EEE: 1 horse (6/16)
Collier	WNV: 2 humans (August)
	EEE: 4 horses (6/9, 6/22, 6/29, 7/9)
De Soto	WNV: 2 horses (9/6, 9/10)
	EEE: 1 horse (8/23)
Duval	WNV: 1 human (September); 1 sentinel (9/13)
	EEE: 1 horse (8/18); 5 sentinels (6/21, 7/8, 7/21)
Escambia	EEE: 1 horse (8/16)
Flagler	WNV: 2 sentinels (9/13)
	EEE : 17 sentinels (3/22, 4/26, 5/3, 6/7, 6/21, 7/12, 7/19, 7/26, 8/2, 8/9); 3 mosquito pools (<i>Culiseta</i>
	melanura 4/27, 5/11, 6/15)
	HJV: 3 sentinels (6/14, 6/28, 8/16)
Glades	EEE : 3 horses (6/20, 6/24, 7/26)
Gulf	EEE : 1 horse (9/5)
Hardee	EEE : 1 horse (8/22)
Hendry	WNV : 1 horse (9/15) ; 8 sentinels (8/18, 8/31)
1 Pillele e ne comb	EEE : 1 horse (7/21)
Hillsborough	WNV : 1 horse (9/3) ; 14 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15) EEE: 2 humans (June, July) ; 5 horses (5/29, 6/11, 7/8, 7/17); 2 sentinels (5/4, 5/18)
	HJV : 1 sentinel ($6/28$)
Holmes	EEE: 2 horses (7/23, 8/9)
Indian River	WNV: 11 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16)
Jackson	EEE: 4 horses (6/14, 6/28, 7/10, 8/1)
Jefferson	WNV: 1 horse (7/4)
Jener Jon	EEE: 3 horses (7/20, 8/1, 8/25)
Lake	EEE: 6 horses (5/20, 6/29, 7/4, 7/9, 7/15, 7/17)
Lee	WNV: 22 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20)
Leon	DENV: 2 humans (acquired in Key West)
20011	WNV: 1 sentinel (9/20)
	EEE: 1 human (July); 2 horses (6/29, 8/5); 7 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7)
	HJV: 2 sentinels (8/16, 8/23)
Liberty	EEE: 1 horse (7/11)
Madison	EEE: 2 horses (6/21, 7/3)
Manatee	WNV: 6 sentinels (8/30, 9/7, 9/13, 9/20)
	EEE: 1 horse (7/21)
Marion	EEE: 4 horses (5/7, 7/22, 8/3)
Martin	WNV: 2 horses (9/11, 9/16); 4 sentinels (8/13, 8/27, 9/10, 9/16)
	EEE: 1 horse (8/4); 2 sentinels (5/28)
Miami-Dade	DENV: 1 human (acquired in Key West)
	SLEV: 2 sentinels (8/23, 9/20)
	EEE: 4 horses (6/7, 6/17, 7/4); 2 sentinels (6/14)
Monroe	DENV: 36 humans (acquired in Key West)
Nassau	WNV: 5 sentinels (9/6, 9/20)
	EEE: 6 sentinels (6/28, 7/13, 7/19, 8/9, 8/16, 8/31)
	HJV: 8 sentinels (6/28, 7/13, 7/19, 7/26, 8/16, 8/23)
Okaloosa	WNV: 1 live wild bird (flavivirus positive, blue jay 6/14)
	EEE : 1 horse (7/25); 12 live wild birds (1 house sparrow 1/4, 8 blue jays 1/27, 4/19, 4/21, 4/26, 7/5, 7/26,
	9/16, 3 cardinals 7/5, 7/22, 8/5)

Orange WNV : 2 humans (1 July, 1 August); 30 sentinels (6/14, 7/6, 7/19, 7/26, 8/2, 8/16, 8/23, 8/30, 9/2, 9/7, 9/16) EEE : 1 horse (7/16); 23 sentinels (1/7, 5/3, 5/17, 6/7, 6/10, 6/14, 6/21, 7/6, 7/12, 7/19, 7/22, 7/29, 9/7, 9/13) UNV : 1 human (July); 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE : 1 horses (5/17, 6/7, 6/10, 6/14, 6/24, 7/6, 7/8, 7/15, 7/19, 7/22, 8/5, 8/16, 8/19) Osceola WNV: 1 human (July); 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE: 2 horses (5/17, 6/7, 6/10, 6/13, 7/9) Palm Beach WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 2 horses (6/22, 8/31) Pasco DEEN: 1 human (acguried in Key West) EEE: 3 sentinels (6/28, 7/6, 8/16) Pinellas DEENV: 1 human (acguried in Key West) EEE: 4 horses (4/26, 6/25, 6/28, 8/19) Putnam WNV: 2 sentinels (6/14, 8/6) St. Johns WNV: 1 sentinels (8/16, 8/23, 9/30, 9/7, 9/13) EEE: 1 horse (6/17); 1 sentinels (6/1, 7/12, 7/26) HJV: 2 sentinels (2/14, 8/6) St. Johns EEE: 1 horse (6/28): 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) St. Lucie WNV: 4 sentinels (9/2, 9/16)	Okeechobee	EEE : 4 horses (6/14, 7/1, 7/7, 7/17)
9/16) EEE: 1 horse (7/16); 23 sentinels (1/7, 5/3, 5/17, 6/7, 6/10, 6/14, 6/21, 7/6, 7/12, 7/19, 7/22, 7/29, 9/7, 9/13) HJV : 22 sentinels (5/17, 6/7, 6/10, 6/14, 6/24, 7/6, 7/8, 7/15, 7/19, 7/22, 8/5, 8/16, 8/19) Osceola WWV: 1 human (July): 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE: 7 horses (5/15 (donkey), 6/8, 6/10, 6/13, 7/9) Palm Beach WNV: 1 horse (9/9): 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 2 horses (6/22, 8/31) Pasco EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (5/24, 7/19) HJV: 1 human (acquired in Key West) EEE: 3 horses (9/19, 9/10) EEE: 4 horses (9/19, 9/10) EEE: 5 horses (9/19, 9/10) EEE: 6 horses (4/28, 7/6) Polk WNV: 2 horses (9/19, 9/10) EEE: 1 horses (7/26, 8/2), 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (8/27, 9/17) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (8/14, 8/2) St. Johns WNV: 1 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/29, 17) EEE: 1 horse (6/29, 17) Sarasota DENV: 2 humans (acquired in Key West) WWV: 1		
9/13) HJV: 22 sentinels (5/17, 6/7, 6/10, 6/14, 6/24, 7/6, 7/8, 7/15, 7/19, 7/22, 8/5, 8/16, 8/19) Osceola WNV: 1 human (July): 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE: 7 horses (5/15 (donkey), 6/8, 6/10, 6/13, 7/9) Palm Beach WNV: 1 horse (9/9): 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 2 horses (6/22, 8/31) EEE: 3 horses (6/11, 7/16, 8/7): 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/27, 7/6, 8/16) HJV: 3 sentinels (3/26, 7/6, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 horses (6/11, 7/16, 7/12) HJV: 2 sentinels (4/26, 7/6) HJV: 2 sentinels (4/26, 7/6) HJV: 3 sentinels (6/27, 9/17) EEE: 2 horses (7/26, 8/19) EEE: 1 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 1 horse (6/18) is sentinels (6/14, 7/23, 7/30, 8/6, 9/9) HJV: 3 sentinels (8/27, 9/17) EEE: 1 horse (6/18) is sentinels (6/14, 7/12, 7/26) HJV: 3 sentinels (8/213, 8/30, 9/7, 9/13) EEE: 1 horse (6/26); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 sarasota DENV: 2 humans (acquired in Key West) WNV: 4 sentinels (9/10, 9/17) Sett: 1 horse (6/26); 16 live wild birds (11 blue jays 2/2, 3/22	J	
HJV : 22 sentinels (5/17, 6/10, 6/14, 6/24, 7/6, 7/8, 7/15, 7/19, 7/22, 8/5, 8/16, 8/19) Osceola WNV: 1 human (July); 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE: 7 horses (5/16 (donkey), 6/8, 6/10, 6/13, 7/9) Palm Beach WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 3 horses (6/22, 8/31) Pasco EEE: 1 horses (5/2, 7/16, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (4/28, 7/6, 7/12) HJV: 2 sentinels (4/28, 7/6, 8/16) Polk WNV: 1 horses (9/1, 9/10) EEE: 3 horses (6/14, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 2 sentinels (8/27, 9/17) EEE: 1 horses (6/18, 9/28, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HUV: 2 sentinels (4/28, 5/3, 7/12) St. Lucie WNV: 1 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 2 sentinels (1/10, 9/17) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 1 horse (6/29), 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 sentinels (1/5, 1/11, 6/1)		EEE : 1 horse (7/16); 23 sentinels (1/7, 5/3, 5/17, 6/7, 6/10, 6/14, 6/21, 7/6, 7/12, 7/19, 7/22, 7/29, 9/7,
Osceola WNV: 1 human (July): 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30) EEE: 7 horses (5/15 (donkey), 6/8, 6/10, 6/13, 7/9) Palm Beach WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 2 horses (6/22, 8/31) Pasco EEE: 3 horses (6/22, 8/31) Pasco EEE: 3 sentinels (6/28, 7/6, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (5/24, 7/19) HUX: 2 sentinels (6/28, 7/6, 8/16) Polk WNV: 1 horses (4/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 7/6) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HUV: 2 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/28); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (9/10, 9/17) EEE: 3 sentinels (9/10, 9/17) Seminole WNV: 1 sentinel (7/21, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West)		9/13)
EEE: 7 horses (5/15 (donkey), 6/8, 6/10, 6/13, 7/9) Paim Beach WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/22, 8/31) Pasco EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/22, 8/31) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (4/26, 7/6) Polk WNV: 4 sentinels (6/27, 9/17) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (6/17, 9/17) EEE: 1 horse (6/18); 3 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (6/16, 3/3, 7/12) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 2 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinels (1/10, 9/17) Seeminole WNV: 2 sentinels (1/15, 1/11, 6/1) Seeminole WNV: 2 sentinels (1/14, 1/4, 8/30, 9/7, 9/13, 9/20)		HJV : 22 sentinels (5/17, 6/7, 6/10, 6/14, 6/24, 7/6, 7/8, 7/15, 7/19, 7/22, 8/5, 8/16, 8/19)
Paim Beach WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20) EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/28, 7/6, 8/16) Pasco EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/28, 7/6, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (5/24, 7/19) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/6, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (6/16, 5/3, 7/12) St. Lucie WNV: 4 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/18); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (7/2) HJV: 1 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/17, 7/1); 1 (6 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culiseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/17, 7/12, 9/7) Wakulta	Osceola	WNV: 1 human (July); 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30)
EEE: 2 horses (6/22, 8/31) Pasco EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (5/28, 7/6, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (4/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (6/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (6/18, 7/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (6/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Saraota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (7/19, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinels (1/5, 1/11, 6/1) Seminole WNV: 1 sentinels (7/19, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 3 horses (6/27, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/17, 1/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culiseta melanura 6/15		
Pasco EEE: 3 horses (6/11, 7/16, 8/7); 3 sentinels (7/6, 7/12) HJV: 3 sentinels (6/28, 7/6, 8/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (6/24, 7/19) HJV: 2 sentinels (4/26, 7/6) Polk WNV: 4 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (8/27, 9/17) St. Johns WNV: 11 sentinels (6/14, 8/6) St. Lucie WNV: 13 sentinels (6/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/19); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV: 2 sentinels (9/20, 9/16) EEE: 3 horses (5/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV: 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) Wakulta EEE: 1 human (July) Wakulta EEE: 1 horse (6/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28,	Palm Beach	WNV: 1 horse (9/9); 30 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20)
HJV: 3 sentinels (6/28, 7/6, 6/16) Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (6/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (1/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/28, 7/12, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinels (9/2, 9/16); EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culliseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (7/17, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culliseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (7/17, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1/3 8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/2		
Pinellas DENV: 1 human (acquired in Key West) EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (4/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/18); 3 sentinels (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 1 sentinels (9/2, 9/16) EEE: 3 sortinels (9/2, 9/16) EEE: 3 sortinels (7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinels (5/17, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinels (5/17, 7/11); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulla EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/18, 7/9, 7/22, 7/30 (8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/2	Pasco	
EEE: 3 sentinels (5/24, 7/19) HJV: 2 sentinels (4/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/2) HJV: 1 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culliseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulla EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live		
HJV: 2 sentinels (4/26, 7/6) Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV: 1 sentinel (7/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulton EEE: 1 horse (8/5); 45 sentinels (1/19, 3/2	Pinellas	
Polk WNV: 2 horses (9/1, 9/10) EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV: 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29): 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV: 1 sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV: 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (Culiseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) WNV: 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 bluc jay 6/24) HJV: 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		EEE: 3 sentinels (5/24, 7/19)
EEE: 4 horses (4/28, 6/25, 6/28, 8/19) Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV : 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV: 1: sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV: 1 sentinel (7/27) HJV: 1 sentinels (9/2, 9/16) Wolusia WNV: 13 sentinels (5/17, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (Culliseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) WNV: 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blud jay 6/24) HJV: 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		HJV: 2 sentinels (4/26, 7/6)
Putnam WNV: 4 sentinels (8/27, 9/17) EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV : 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulla EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)	Polk	
EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9) HJV: 2 sentinels (5/14, 8/6) St. Johns WNV : 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE: 3 sentinels (7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5): 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		
HJV: 2 sentinels (5/14, 8/6) St. Johns WNV : 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV: 1 sentinel (7/2) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (Culiseta melanura 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Wakulla EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV: 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)	Putnam	
St. Johns WNV : 11 sentinels (8/16, 8/23, 8/30, 9/7, 9/13) EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (9/10, 9/17) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (9/2, 9/16) EEE: 3 borses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (6/26, 7/15, 8/14); 1 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/1), 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		EEE: 2 horses (7/26, 8/8); 6 sentinels (6/4, 7/23, 7/30, 8/6, 9/9)
 EEE: 1 horse (6/18); 3 sentinels (6/1, 7/12, 7/26) HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2) HJV: 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9); 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV: 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/3(8/12, 8/19, 8/20, 9/2) EEE: 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2) 		
HJV: 3 sentinels (4/26, 5/3, 7/12) St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE: 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE: 2 horses (5/7, 7/1); 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)	St. Johns	
St. Lucie WNV: 4 sentinels (9/10, 9/17) Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE : 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE : 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		
Santa Rosa EEE: 1 horse (6/29); 16 live wild birds (11 blue jays 2/2, 3/22, 4/13, 4/19, 5/11, 5/18, 7/13, 8/31, 9/14, 5 cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE : 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE : 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)		
cardinals 6/22, 7/13, 7/27, 8/3, 8/31) Sarasota DENV: 2 humans (acquired in Key West) WNV: 1 sentinel (1/8) EEE: 3 sentinels (1/5, 1/11, 6/1) Seminole WNV : 2 sentinels (9/2, 9/16) EEE : 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE : 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)	St. Lucie	
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 EEE : 3 horses (6/26, 7/15, 8/14) ; 1 sentinel (7/2) HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE : 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2) 		EEE: 3 sentinels (1/5, 1/11, 6/1)
HJV : 1 sentinel (7/27) Volusia WNV : 13 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20) EEE : 2 horses (5/7, 7/1) ; 16 sentinels (5/24, 6/1, 6/7, 6/14, 6/21, 6/28, 7/6, 7/12, 7/26, 8/9) ; 3 mosquito pools (<i>Culiseta melanura</i> 6/15, 6/22, 6/29) HJV : 3 sentinels (5/17, 7/12, 9/7) Wakulla EEE: 1 human (July) Walton WNV : 53 sentinels (1/14, 2/4, 3/8, 3/12, 3/22, 4/7, 4/8, 4/23, 4/30, 5/5, 5/20, 6/7, 6/11, 7/8, 7/9, 7/22, 7/30 8/12, 8/19, 8/20, 9/2) EEE : 1 horse (8/5); 45 sentinels (1/19, 3/22, 5/3, 6/8, 6/21, 7/6, 6/28, 6/30, 7/6, 7/12, 7/15, 7/18, 7/19, 7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7); 6 live wild birds (5 cardinals 6/24, 7/16, 7/22, 1 blue jay 6/24) HJV : 10 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2)	Seminole	WNV : 2 sentinels (9/2, 9/16)
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Washington EEE. / HUISES (0/17, 0/22, 0/20, 0/20, 1/4, 1/10, 1/20)	Washington	EEE : 7 horses (6/17, 6/22, 6/25, 6/28, 7/4, 7/16, 7/20)

Acknowledgements and Data Sources

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

http://www.doh.state.fl.us/Environment/medicine/arboviral/index.html

Data is provided by county health departments, Department of Health Laboratories, Department of Agriculture and Consumer Services, mosquito control agencies, Florida Fish and Wildlife Conservation Commission, medical providers and veterinarians. Equine cases are determined by the Department of Agriculture and Consumer Services. Wild captured bird information is provided by the John A. Mulrennan Public Health Entomology Research and Education Center.