

Florida Arbovirus Surveillance Week 44: October 31-November 6, 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 October 31-November 6, 2010, the following arboviral activity was recorded in Florida:

DENV activity: Two cases of dengue associated with Key West were reported this week. In 2010, there have been 57 locally-acquired cases in Key West and one in Broward County.

EEEV activity: One sentinel chicken in Flagler County tested positive for antibodies to EEEV. In 2010, positive samples from four humans, 93 equines, 160 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 Union County. Forty sentinel chickens in Brevard, Citrus, Duval, Flagler, Hillsborough, Indian River, Lee, Leon, Manatee, Martin, Orange, Palm Beach, Putnam, Sarasota, St. Lucie, Volusia counties tested positive for antibodies to WNV. In 2010, positive samples from 12 humans, 22 equines, 1 reptile, 452 sentinel chickens, and one live wild bird (flavivirus positive) have been received from 38 counties.

SLEV activity: No SLEV activity was reported this week. In 2010, positive samples from five sentinel chickens have been received from one county.

HJV activity: Six sentinel chickens in Leon, Orange, Putnam, Volusia counties tested positive for antibodies to HJV. In 2010, positive samples from 81 sentinel chickens have been received from 14 counties.

Advisories/Alerts: Brevard, Collier, Hillsborough, Monroe, and Orange counties are under mosquito-borne illness alerts. Broward, Clay, De Soto, Duval, Flagler, Glades, Hendry, Highlands, Indian River, Jackson, Jefferson, Lake, Leon, Madison, Marion, Martin, Miami-Dade, Osceola, Palm Beach, Polk, Putnam, St. Lucie, Volusia, Walton, Wakulla, and Washington 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: Eleven human cases of WNV have been reported in 2010 in Osceola, Orange (2), Collier (2), Broward, Duval, De Soto, Suwannee, Brevard, and Highlands counties with onset in July (2), August (4), September (3), and October (2). The Suwannee County case had travel outside the county, primarily in Florida. One positive asymptomatic blood donor was reported in Brevard County.

Dengue Acquired in Florida: In 2010, one case of dengue has been reported as acquired in Broward County and 57 cases of dengue have been reported as acquired in Key West (Monroe

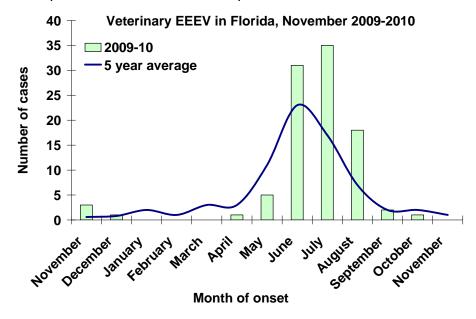
County). Of the Key West cases, 49 are Key West residents, eight are residents of other Florida counties, and one resides out of state. Onset dates ranged from March 17 to October 28, 2010.

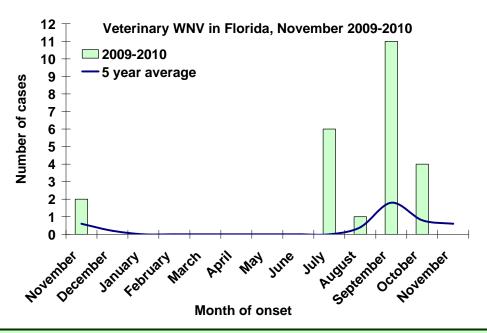
Imported Dengue: One hundred and eighteen cases of dengue with onset in 2010 have been reported in individuals with travel history to a dengue endemic country in the two weeks prior to onset. Countries of origin were: Bangladesh, Brazil, Colombia (8), Costa Rica (4), Dominican Republic (13), Ecuador, El Salvador, Ghana, Grenada (4), Guatemala (2), Haiti (5), Honduras (6), Jamaica (5), Martinique (2), Mexico, Nicaragua (8), Pakistan, Philippines, Puerto Rico (33), Trinidad, Venezuela (14), Virgin Islands (3), Malaysia/Dubai/Bangladesh, and Panama/Venezuela (slash indicates travel to more than one country). Counties reporting cases were Alachua (2), Broward (20), Collier (2), Duval (3), Escambia, Flagler, Hendry, Hillsborough (7), Lake, Lee, Manatee, Marion, Miami-Dade (41), Monroe, Orange (9), Osceola (5), Palm Beach (10), Pasco, Pinellas, Polk, Seminole (3), St. Lucie (2), and Volusia (3).

Imported Malaria: One hundred and three imported cases of malaria with onset in 2010 have been reported. Countries of origin were: Angola, Cameroon, Dominican Republic, Ghana (4), Guyana, Haiti (59), Honduras (4), India (8), Indonesia, Ivory Coast, Malawi (2), Nigeria (7), Pakistan (2), Peru, Philippines, South Africa, Togo, Uganda, West Africa (2), Zambia/South Africa, Africa, and unknown (2). Counties reporting cases were: Alachua, Brevard (2), Broward (18), Charlotte, Citrus, Collier (4), Duval (4), Escambia (3), Hillsborough (4), Lake, Lee, Leon, Miami-Dade (20), Manatee (2), Orange (15), Osceola (3), Palm Beach (12), Pasco, Pinellas, Polk (2), Sarasota, Seminole, St. Lucie, Volusia (2), and Wakulla.

Veterinary Cases

No positive horses were reported this week. In 2010, 22 WNV positive horses, one WNV positive reptile, and 93 EEEV positive horses have been reported.



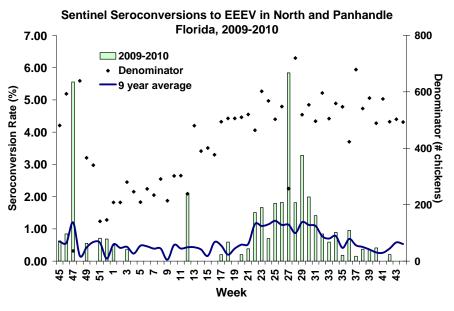


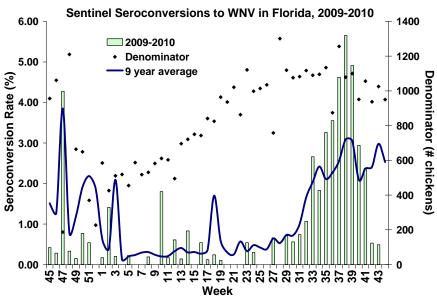
Sentinel Chickens

There was one seroconversion to EEEV in a sentinel chicken from Flagler County, 40 to WNV in Brevard, Citrus, Duval, Flagler, Hillsborough, Indian River, Lee, Leon, Manatee, Martin, Orange, Palm Beach, Putnam, Sarasota, St. Lucie, Volusia counties, and six to HJV in Leon, Orange, Putnam, and Volusia counties this week. Seroconversion rates are calculated by week and include previously reported results.

County	Collection Seroconversion Rates (%)		County 7		
	Date	SLEV WNV	EEEV HJV	Week	YTD
Brevard	10/01/10	7.5		4 WNV	44 WNV, 1 EEE
	10/06, 10/07, 10/08/10	11.1		4 WNV	
Citrus	10/25/10	3.1		2 WNV	9 WNV, 5 EEE, 3 HJV
Duval	10/11/10	4.8		1 WNV	4 WNV, 5 EEE
Flagler	10/04/10	16.7	10.0	2 WNV, 1 EEE	5 WNV, 19 EEE, 4 HJV
Hillsborough	10/06/10	2.5		2 WNV	21 WNV, 2 EEE, 1 HJV
	10/12/10	4.8		4 WNV	
Indian River	09/30/10	8.9		4 WNV	42 WNV
	10/07/10	11.4		4 WNV	
	10/21/10	1.1		1 WNV	
Lee	10/04/10	8.6		3 WNV	53 WNV
	10/11/10	8.1		6 WNV	
Leon	10/04/10		2.4	1 HJV	6 WNV, 9 EEE, 4 HJV
	10/11/10		2.4	1 HJV	
	10/25/10	2.5		1 WNV	
Manatee	10/04/10	3.4		2 WNV	15 WNV
	10/11/10	3.5		2 WNV	
Martin	10/01/10	5.3		1 WNV	13 WNV, 2 EEE
Orange	10/04/10	1.1		1 WNV	38 WNV, 23 EEE, 23 HJV

County	Collection Date	Seroconversion Rate SLEV WNV EEEV	` '	County Totals Week YTD		
	10/11,	1.0		1 WNV		
	10/14/10					
Palm Beach	10/04/10	6.7		1 WNV	53 WNV	
	10/11/10	7.1		1 WNV		
	10/18/10	5.9		1 WNV		
	10/26/10	18.1		2 WNV		
Putnam	10/01/10	18.2	16.7	2 WNV, 2 HJV	11 WNV, 7 EEE, 4 HJV	
Sarasota	10/08/10	1.5		1 WNV	2 WNV, 3 EEE	
St. Lucie	10/01/10	4.8		1 WNV	8 WNV	
Volusia	10/04/10	9.0	4.8	2 WNV, 1 HJV	18 WNV, 16 EEE, 4 HJV	
	10/11/10	5.6		1 WNV		





Live Wild Birds

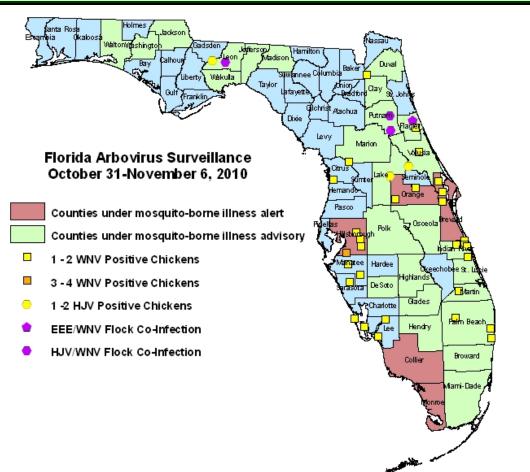
Out of nine live wild birds collected from Walton County on October 29, 2010, two cardinals tested positive for antibodies to EEEV.

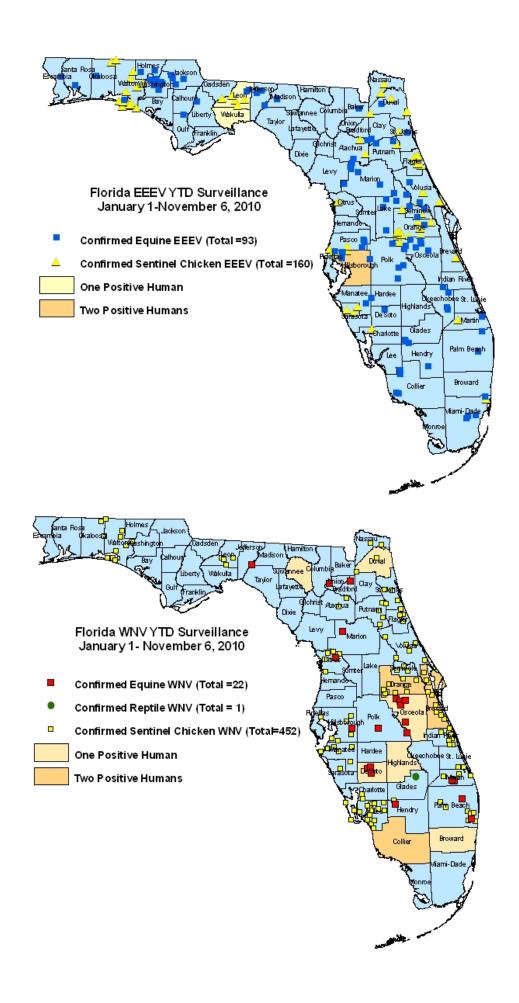
County	Collection Date	EEEV	Flavi	Species	EEEV Rate	Flavi Rate	County YTD
Walton	10/29/10	2		2 Cardinals	2 out of 9	N/A	8 EEE

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, seven reports representing 36 dead birds were received from six counties. Three were identified as raptors, none were identified as crows, or jays. In 2010, 305 reports representing a total of 977 dead birds (47 crows, 16 jays, 48 raptors, 765 others) have been reported from 48 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/

Maps





YTD Arbovirus Activity by County

Alachua	County	Arbovirus Activity
HJV.1 sentinel (19/20) Baker EE: 1 horse (17/26) Bradford EE: 1 horse (16/16) Brevard WNV.1 horse (16/16) Brevard WNV.2 humans (1 case in October, 1 positive blood donor): 44 sentinels (7/7, 7/21, 8/4, 8/11, 8/18, 8/91, 9/3, 9/8, 9/17, 9/22, 9/23, 9/24, 10/1, 10/6, 10/7, 10/8) Broward DENV.3 humans (1 acquired in Broward, 2 acquired in Key West) WNV.1 human (August) WNV.1 horse (10/3); 9 sentinels (9/20, 9/27, 10/4, 10/11, 10/25) EE: 5 sentinels (6/27, 8/10, 10/8) EE: 5 horse (6/16) EE: 6 horse (6/16) EE: 6 horse (6/16) EE: 6 horse (8/16) EE: 6 horse (8/20) EE:	Alachua	
Baker EEE: 1 horse (7/26)		EEE: 1 horse (7/21); 4 sentinels (7/16, 7/19, 8/2, 9/28)
Bradford		
EEE: 1 horse (6/16)	Baker	
WNV: 2 humans (1 case in October, 1 positive blood donon), 44 sentinels (7/7, 7/21, 8/4, 8/11, 8/18, 8/9/19, 39, 89, 471, 9/22, 9/23, 9/24, 10/1, 10/16, 10/7, 10/8) EEE: 1 sentinel (6/2) Broward	Bradford	
### Section		
DENV: 3 humans (1 acquired in Broward, 2 acquired in Key West)	Brevard	9/1, 9/3, 9/8, 9/17, 9/22, 9/23, 9/24, 10/1, 10/6, 10/7, 10/8)
Charlotte WNN/: 3 human (August) Citrus WNN/: 1 horse (10/3); 9 sentinels (9/20, 9/27, 10/4, 10/11, 10/25) EEE: 5 sentinels (5/24, 6/7, 6/28, 7/12, 7/19) H.W.3 sentinels (5/17, 5/24, 8/9) Clay EEE: 1 horse (6/16) Collier WNY: 2 humans (August) EEE: 4 horses (6/8, 6/22, 6/29, 7/9) De Soto WNY: 1 human (September); 3 horses (9/6, 9/10, 9/21) EEE: 1 horse (8/23) WNY: 1 human (September); 4 sentinels (9/13, 9/27, 10/11) Escambia EEE: 1 horse (8/18); 5 sentinels (6/21, 7/8, 7/21) Escambia EEE: 1 horse (8/18); 6 sentinels (6/21, 7/8, 7/21) Escambia EEE: 1 horse (8/18); 6 sentinels (6/21, 7/8, 7/21) Escambia EEE: 1 horse (8/18); 6 sentinels (6/21, 7/12, 7/19, 7/26, 8/2, 8/9, 9/27, 10/4); 3 mosquito pools (Culseta melanural 4/27, 5/11, 6/15) Human WNY: 5 sentinels (6/14, 6/28, 8/16, 9/20) Glades WNY: 1 alligator (10/1) EEE: 3 horses (6/20, 6/24, 7/26) Gulf EEE: 1 horse (9/25) Herrando WNY: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) Herrando WNY: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) Herrando WNY: 1 horse (9/12, 14/12)	Broward	
Charlotte	Biowaiu	
Citrus	Charlotte	
EEE: 5 sentinels (5/24, 6/7, 6/24, 8/9)		
HJV: 3 sentinels (6/16)	Oitius	
Cally		
Collier	Clav	
EEE: 4 horses (6/9, 6/22, 6/29, 7/9)	Collier	
De Soto		
EEE: 1 horse (8/23)	De Soto	
EEE: 1 horse (8/18): 5 sentinels (6/21, 7/8, 7/21)		
EEE: 1 horse (8/16)	Duval	
Flagler WNV: 5 sentinels (9/13, 9/27, 10/4) EEE: 19 sentinels (3/22, 4/26, 5/3, 6/7, 6/21, 7/12, 7/19, 7/26, 8/2, 8/9, 9/27, 10/4); 3 mosquito pools (Culiseta melanura 4/27, 5/11, 6/15) HJV: 4 sentinels (6/14, 6/28, 8/16, 9/20) Glades WNV: 1 alligator (10/1) EEE: 3 horses (6/20, 6/24, 7/26) Gulf EEE: 1 horse (9/5) Hardee EEE: 1 horse (8/2) Hendry WNV: 3 sentinels (8/18, 8/31, 9/13) EEE: 1 horse (7/21) Highlands WNV: 3 sentinels (9/27, 10/12) Highlands WNV: 1 human (October) Hillsborough WNV: 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (8/20, 9/29, 7/4, 10/4) HJV: 4 sentinels (8/16, 8/23, 10/4, 10/11) Liberty EEE: 1 horse (6/21, 7/3) Manatee WNV: 15 sentinels (8/16, 8/23, 10/4, 10/11) EEE: 6 horses (5/7, 7/22, 8/3, 9/24, 10/11) Martin WNV: 1 horse (7/11) Martin WNV: 1 horse (7/11) Martin WNV: 1 horse (7/11) Mimi-Dade Mimi-Dade Mimi-Dade WNV: 5 sentinels (8/3), 9, 79, 9/20, 9/27)		
EEE : 19 sentinels (3/22, 4/26, 5/3, 6/7, 6/21, 7/12, 7/19, 7/26, 8/2, 8/9, 9/27, 10/4); 3 mosquito pools (Culiseta melanura 4/27, 5/11, 6/15) HJV: 4 sentinels (6/14, 6/28, 8/16, 9/20) Glades WNV : 1 alligator (10/1) EEE : 3 horses (6/20, 6/24, 7/26) Gulf EEE: 1 horse (8/22) Hendry WNV : 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) EEE: 1 horse (8/21) Hernando WNV : 3 sentinels (9/27, 10/12) Highlands WNV : 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) EEE: 2 humans (June, July); 5 horses (5/29, 6/11, 7/8, 7/17); 2 sentinels (5/4, 5/18) HJU: 1 sentinel (6/28) Holmes EEE: 2 horses (7/23, 8/9) Indian River WNV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 horse (7/4) EEE: 3 horses (5/20, 6/29, 7/4, 7/9, 7/15, 7/17) Lee WNV: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENY: 2 humans (acquired in Key West) WNV: 6 sentinels (9/20, 9/28, 10/25) EEE: 1 human (July); 2 horses (6/29, 8/5); 9 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7, 9/20, 10/18) HJV: 4 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11) Liberty EEE: 1 horse (7/11) Madison EEE: 2 horses (6/21, 7/3) Manatee WNV: 1 horse (7/11) Marin WNV: 1 horse (7/11) Marin WNV: 1 horse (7/11) WNV: 2 horses (6/11, 7/3) Marin WNV: 1 horse (10/1) EEE: 1 horse (8/4); 2 sentinels (6/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) EEE: 1 horse (8/4); 2 sentinels (5/28) DENV: 1 human (acquired in Key West) SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)	Escambia	
(Culiseta melanura 4/27, 5/11, 6/15) HJV: 4 sentinels (6/14, 6/28, 8/16, 9/20) Glades WNV: 1 alligator (10/1) EEE: 3 horses (6/20, 6/24, 7/26) Gulf EEE: 1 horse (9/5) Hardee EEE: 1 horse (9/5) Hendry WNV: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) EEE: 1 horse (7/21) Hernando WNV: 3 sentinels (9/27, 10/12) Highlands WNV: 1 human (October) Hillsborough WNV: 1 human (October) Hillsborough WNV: 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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 Rive WNV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 horse (7/4) 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (9/20, 9/28, 10/25) EEE: 1 human (July); 2 horses (6/29, 8/5); 9 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7, 9/20, 10/18) HJV: 4 sentinels (8/20, 9/28, 10/25) EEE: 1 horse (7/11) Madison EEE: 2 horses (5/1, 7/3) Manatee WNV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) EEE: 1 horse (7/21) Martin WNV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) EEE: 1 horse (8/4); 2 sentinels (8/23, 9/7, 9/20, 9/27)	Flagler	
HJV: 4 sentinels (6/14, 6/28, 8/16, 9/20)		
Glades WNV: 1 alligator (10/1) EEE: 3 horses (6/20, 6/24, 7/26) Gulf EEE: 1 horse (8/20) Hardee EEE: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) EEE: 1 horse (7/21) WNV: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) Hernando WNV: 3 sentinels (9/27, 10/12) Highlands WNV: 1 human (October) Hillsborough WNV: 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Lake 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (8/16, 8/23, 10/4, 10/11) Liberty EEE: 1 horse (7/21) Madison EEE: 2 horses (6/21, 7/3) Marian		
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); 10 sentinels (8/18, 8/31, 9/13) EEE: 1 horse (7/21) Hernando WNV: 3 sentinels (9/27, 10/12) Highlands WNV: 1 human (October) Hillsborough WNV: 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) EEE: 2 humans (June, July); 5 horses (5/29, 6/11, 7/8, 7/17); 2 sentinels (5/4, 5/18) HOImes EEE: 2 horses (7/23, 8/9) Indian River WNV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 horse (7/4) EEE: 3 horses (5/20, 6/29, 7/4, 7/9, 7/15, 7/17) Lee WNV: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (8/16, 8/23, 10/4, 10/11) Liberty EEE: 1 horses (6/21, 7/3) Madison EEE: 2 horses (6/21, 7/3) Manatee WNV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) EEE: 1 horses (5/77, 7/22, 8/3, 9/24, 10/11) <t< th=""><th>Glades</th><th></th></t<>	Glades	
Hardee EEE: 1 horse (8/22) Hendry WNV: 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13)	<u> </u>	
## WRV : 1 horse (9/15); 10 sentinels (8/18, 8/31, 9/13) ## EE : 1 horse (7/21) ## WRV : 3 sentinels (9/27, 10/12) ## WRV : 3 sentinels (9/27, 10/12) ## WRV : 1 human (October) ## WRV : 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) ## EE: 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) ## WRV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) ## WRV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) ## WRV: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) ## WRV: 1 horse (7/4) ## EE: 3 horses (6/14, 6/28, 7/10, 8/1) ## WRV: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) ## Leo ## DENV: 2 humans (acquired in Key West) ## WRV: 6 sentinels (8/20, 9/28, 10/25) ## EE: 1 horse (7/11) ## EE: 1 horse (7/11) ## Addison ## EE: 2 horses (6/21, 7/3) ## Amanatee ## WRV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) ## EE: 1 horse (7/21) ## WRV: 1 borses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) ## EE: 1 human (acquired in Key West) ## WRV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) ## EE: 1 human (acquired in Key West) ## SEE: 5 sentinels (8/23, 9/7, 9/20, 9/27) ## WRV: 2 borses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) ## EE: 1 human (acquired in Key West) ## SEE: 5 sentinels (8/23, 9/7, 9/20, 9/27) ## WRV: 2 borses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) ## EE: 1 human (acquired in Key West) ## SEE: 5 borses (5/28, 9/7, 9/20, 9/27) ## WRV: 2 borses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) ## EE: 5 borses (5/5 sentinels (8/23, 9/7, 9/20, 9/27)		
EEE : 1 horse (7/21)		
Hernando WNV : 3 sentinels (9/27, 10/12) Highlands WNV : 1 human (October) Hillsborough WNV : 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (9/20, 9/28, 10/25) EEE: 1 human (July); 2 horses (6/29, 8/5); 9 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7, 9/20, 10/18) Liberty EEE: 1 horse (7/11) Madison EEE: 1 horse (6/21, 7/3) Manatee WNV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) EEE: 1 horse (5/7, 7/22, 8/3, 9/24, 10/11) Martin WNV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15)	Hendry	
Highlands WNV : 1 human (October) Hillsborough WNV : 1 horse (9/3) ; 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 horse (7/4) 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (9/20, 9/28, 10/25) EEE: 1 human (July); 2 horses (6/29, 8/5); 9 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7, 9/20, 10/18) HJV: 4 sentinels (8/16, 8/23, 10/4, 10/11) EEE: 1 horse (7/11) Madison EEE: 1 horse (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) EEE: 1 horse (7/21) WNV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) Martin WNV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) EEE: 1 ho	Hamanda	
Hillsborough WNV: 1 horse (9/3); 21 sentinels (1/12, 1/19, 2/22, 3/9, 3/22, 4/20, 5/11, 6/15, 9/20, 10/6, 10/12) 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: 42 sentinels (7/22, 8/12, 8/19, 9/2, 9/9, 9/16, 9/23, 9/29, 9/30, 10/7, 10/14, 10/21) Jackson EEE: 4 horses (6/14, 6/28, 7/10, 8/1) Jefferson WNV: 1 horse (7/4) 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: 53 sentinels (3/30, 4/20, 8/2, 8/9, 8/16, 8/24, 8/30, 9/7, 9/13, 9/14, 9/20, 9/27, 9/28, 10/4, 10/11) Leon DENV: 2 humans (acquired in Key West) WNV: 6 sentinels (9/20, 9/28, 10/25) EEE: 1 human (July); 2 horses (6/29, 8/5); 9 sentinels (6/1, 6/21, 8/2, 8/9, 8/16, 9/7, 9/20, 10/18) HJV: 4 sentinels (8/16, 8/23, 10/4, 10/11) Liberty EEE: 1 horse (7/11) Madison EEE: 2 horses (6/21, 7/3) Manatee WNV: 15 sentinels (8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11, 10/18) EEE: 1 horse (7/21) Marion WNV: 1 horse (10/1) EEE: 6 horses (5/7, 7/22, 8/3, 9/24, 10/11) Martin WNV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) EEE: 1 horse (8/4); 2 sentinels (5/28) Miami-Dade DENV: 1 human (acquired in Key West) SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)		
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Martin WNV: 2 horses (9/11, 9/16); 13 sentinels (8/13, 8/27, 9/10, 9/16, 9/23, 10/1, 10/15) EEE: 1 horse (8/4); 2 sentinels (5/28) Miami-Dade DENV: 1 human (acquired in Key West) SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)		EEE: 6 horses (5/7, 7/22, 8/3, 9/24, 10/11)
EEE: 1 horse (8/4); 2 sentinels (5/28) Miami-Dade DENV: 1 human (acquired in Key West) SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)	Martin	
Miami-Dade DENV: 1 human (acquired in Key West) SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)		
SLEV: 5 sentinels (8/23, 9/7, 9/20, 9/27)	Miami-Dade	
LLL. THOISES (U/1, U/11, 1/TJ), Z SEHUHEIS (U/14)		EEE: 4 horses (6/7, 6/17, 7/4); 2 sentinels (6/14)

Manue	DENIV. 40 humana (apprised in May We-th
Monroe	DENV: 49 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)
Okalasas	HJV: 9 sentinels (6/28, 7/13, 7/19, 7/26, 8/16, 8/23, 9/20)
Okaloosa	WNV: 1 live wild bird (flavivirus positive, blue jay 6/14)
	EEE: 1 horse (7/25); 13 live wild birds (1 house sparrow 1/4, 8 blue jays 1/27, 4/19, 4/21, 4/26, 7/5, 7/26,
Okasahahaa	9/16, 3 cardinals 7/5, 7/22, 8/5; 1 northern mockingbird 10/4)
Okeechobee	EEE: 4 horses (6/14, 7/1, 7/7, 7/17)
Orange	WNV : 2 humans (1 July, 1 August) ; 38 sentinels (6/14, 7/6, 7/19, 7/26, 8/2, 8/16, 8/23, 8/30, 9/2, 9/7,
	9/16, 9/27, 10/4, 10/11, 10/14, 10/21) 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 : 23 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, 10/11)
Osceola	WNV: 1 human (July); 6 horses (7/14, 7/15, 7/20, 7/24, 7/26, 8/30)
Osceola	EEE: 7 horses (5/15 (donkey), 6/8, 6/10, 6/13, 7/9)
Palm Beach	WNV: 2 horses (9/9, 9/21); 53 sentinels (3/15, 8/2, 8/9, 8/17, 8/23, 8/30, 9/7, 9/13, 9/17, 9/20, 9/27, 10/4,
ann Beach	10/11, 10/18, 10/25)
	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 (6/28, 7/6, 8/16)
Pinellas	DENV: 1 human (acquired in Key West)
	WNV: 1 sentinel (9/27)
	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: 10 sentinels (8/27, 9/9, 9/17, 9/24, 10/1)
	EEE: 2 horses (7/26, 8/8); 7 sentinels (6/4, 7/23, 7/30, 8/6, 9/9, 9/24)
	HJV: 4 sentinels (5/14, 8/6, 10/1)
St. Johns	WNV: 21 sentinels (8/16, 8/23, 8/30, 9/7, 9/13, 9/20, 9/27)
	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: 8 sentinels (9/10, 9/17, 9/24, 10/1, 10/8)
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: 2 sentinels (1/8,10/8)
	EEE: 3 sentinels (1/5, 1/11, 6/1)
Seminole	WNV : 5 sentinels (9/2, 9/16, 9/23, 10/7)
	EEE: 3 horses (6/26, 7/15, 8/14); 1 sentinel (7/2)
	HJV: 1 sentinel (7/27)
Suwannee	WNV : 1 human (September)
Union	WNV : 1 horse (10/13)
Volusia	WNV : 18 sentinels (7/19, 8/9, 8/16, 8/30, 9/7, 9/13, 9/20, 9/27, 10/4, 10/11)
	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)
Malaulia	HJV: 4 sentinels (5/17, 7/12, 9/7, 10/4)
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) FFF + 4 harra (9/5) + 40 particular (4/40, 3/93, 5/3, 6/9, 6/94, 7/6, 6/98, 6/98, 7/43, 7/45, 7/49, 7/
	EEE: 1 horse (8/5); 46 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, 7/20, 7/20, 7/20, 8/2, 8/2, 8/2, 8/2, 8/2, 8/2, 8/2, 8/2
	7/20, 7/26, 7/28, 8/2, 8/3, 8/9, 8/23, 8/27, 9/7, 10/4); 8 live wild birds (7 cardinals 6/24, 7/16, 7/22,
	10/29, 1 blue jay 6/24)
Washington	HJV: 19 sentinels (3/22, 5/17, 6/23, 7/19, 8/2, 9/2, 9/13, 9/16, 9/20, 9/23, 9/27)
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.