



## Florida Arbovirus Surveillance

Week 1: December 29, 2024-January 4, 2025

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 December 29, 2024-January 4, 2025, the following arboviral activity was recorded in Florida.

[This report contains information for 2024 and 2025.](#)

**WNV activity:** No human cases of WNV infection were reported this week. No horses with WNV infection were reported this week. No sentinel chickens tested positive for antibodies to WNV this week. In 2024, positive samples from 18 humans, 10 asymptomatic blood donors, 11 horses, two geese, one flamingo, three ducks, one alpaca, four mosquito pools, and 867 sentinel chickens have been reported from 33 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 2024, 29 sentinel chickens have been reported from 13 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. One emu tested positive for antibodies to EEEV this week in Orange County. In 2024, positive samples from 59 sentinel chickens, 22 horses, two emus, one emu flock, one duck, and one deer have been reported from 26 counties. In 2025, a positive sample from one emu has been reported from one county.

**International Travel-Associated Dengue:** Thirty-three cases of dengue were reported this week in persons that had international travel. In 2024, 944 travel-associated dengue cases have been reported.

**Dengue Cases Acquired in Florida:** Two cases of locally acquired dengue were reported this week. In 2024, 87 cases of locally acquired dengue have been reported from ten counties.

**International Travel-Associated Chikungunya Fever Cases:** No cases of chikungunya fever were reported this week in persons that had international travel. In 2024, eleven cases of travel-associated chikungunya fever have been reported.

**Chikungunya Fever Cases Acquired in Florida:** No cases of locally acquired chikungunya fever were reported this week. In 2024, no cases of locally acquired chikungunya fever have been reported.

**International Travel-Associated Oropouche Fever cases:** No cases of Oropouche fever were reported this week in persons that had international travel. In 2024, 103 travel-associated Oropouche fever cases 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 2024, no travel-associated Zika fever cases have been reported.

**Zika Fever Cases Acquired in Florida:** No cases of locally acquired Zika fever were reported this week. In 2024, no cases of locally acquired Zika fever have been reported.

**Advisories/Alerts:** Alachua, Brevard, Broward, Citrus, Hernando, Holmes, Lake, Madison, Nassau, Orange, Pinellas, Polk, Putnam, Sarasota, Seminole, Sumter, and Volusia counties are currently under a mosquito-borne illness advisory. Bay, Duval, Hillsborough, Manatee, Marion, Miami-Dade, Monroe, Palm Beach, and Pasco counties are currently under a mosquito-borne illness alert. No other counties are currently under a mosquito-borne illness advisory or alert.

There are currently multiple travel health notices from the Centers for Disease Control and Prevention related to mosquito-borne diseases.

Dengue			Oropouche	Yellow Fever	Zika	Chikungunya
Africa and the Middle East	Americas	Asia and the Pacific Islands	Americas	Africa	Asia	Asia
Afghanistan	Colombia	Austral Islands	Barbados	Nigeria	India	India
Burkina Faso	Cuba	French Polynesia	Bolivia			
Cape Verde	Ecuador	India	Brazil (Espirito Santo)			
Central African Republic	El Salvador	Philippines	Brazil			
Ethiopia	Grenada		Colombia			
Iran	Guadeloupe		Cuba			
Mali	Guatemala		Dominican Republic			
Pakistan	Honduras		Ecuador			
Sudan	Mexico		Guyana			
	Panama		Peru			
	Saint Lucia					
	Trinidad and Tobago					

Level 1 Travel Health Notice, Level 2 Travel Health Alert: [wwwnc.cdc.gov/travel/notices](http://wwwnc.cdc.gov/travel/notices).

For a map of arboviral disease activity in the United States visit: <https://www.cdc.gov/fight-the-bite/at-risk/index.html>.

## 2024 Human Case Summary

**West Nile Virus Illnesses Acquired in Florida:** In 2024, eighteen human cases of WNV illness acquired in Florida have been reported in Bay (August, September), Duval (July, September, October), Glades (October), Hillsborough (October), Lake (October), Levy (October), Marion (July, September), Martin (September), Okeechobee (November), Pasco (November), Pinellas (October), Santa Rosa (October), Seminole (October), and Walton (July) counties. Ten asymptomatic positive blood donors were reported from Citrus (October), Duval (August), Hernando (October), Manatee (August), Marion (July, October), Orange (September), Polk (October), and Walton (July, August) counties.

**2024 International Travel-Associated Chikungunya Cases:** Eleven cases with onset in 2024 have been reported in individuals with travel history to a chikungunya-endemic area in the two weeks prior to onset. Counties reporting cases were: Broward (3), Manatee, Miami-Dade, Orange (2), Pinellas, Hillsborough (2), and Pasco. Countries of origin were: Brazil (5), India (5), and Pakistan. Two cases were reported in non-Florida residents.

**2024 International Travel-Associated Oropouche Cases:** One hundred three cases with onset in 2024 have been reported in individuals with travel history to an Oropouche-endemic area in the two weeks prior to onset. Counties reporting cases were: Broward (3), Collier, Duval, Hillsborough (15), Lee (5), Marion, Miami-Dade (61), Orange (3), Palm Beach (2), Pasco (3), Polk (6), Sarasota, and St. Lucie. Country of origin was Cuba (103).

**2024 International Travel-Associated Dengue Cases:** Nine hundred forty-four cases with onset in 2024 have been reported in individuals with travel history to a dengue-endemic area in the two weeks prior to onset. Counties reporting cases were: Alachua (2), Brevard (8), Broward (95), Charlotte (3), Collier (20), Columbia, Duval (11), Escambia (3), Flagler, Hardee, Hendry, Hernando, Hillsborough (67), Indian River (2), Lake (4), Lee (31), Levy (3), Manatee, Marion (6), Martin (2), Miami-Dade (482), Monroe (8), Okaloosa, Okeechobee (3), Orange (45), Osceola (18), Palm Beach (56), Pasco (11), Pinellas (9), Polk (17), Santa Rosa (3), Sarasota (5), Seminole (6), St. Lucie (11), and Volusia (6). Fifty-six cases were reported in non-Florida residents. Seven 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 2024, 756 cases of dengue reported in Florida have been serotyped by PCR. Please see the table below for a breakdown of cases by country of origin and serotype.

Country of Exposure	DENV-1	DENV-2	DENV-3	DENV-4	DENV-2 /DENV-3	Unknown	Total
Argentina	3	4				7	14
Bangladesh		1					1
Barbados	1	1				2	4
Barbados/Trinidad and Tobago		1					1
Brazil	36	12	1			12	61
Brazil/Paraguay		1					1
Colombia	5	12	7	1		12	37
Colombia/Panama						1	1
Costa Rica	1	1	5	2			9
Cuba		1	207	234	1	86	529
Dominican Republic			13			4	17
El Salvador	2		10			1	13
El Salvador/Honduras	1						1
Fiji						1	1
Grenada		2					2
Guatemala	1		16			4	21
Guyana			3			1	4
Honduras			33		1	9	43
India	3	1				2	6
Indonesia		1				2	3
Jamaica		1				1	2
Maldives		1					1
Mexico	4	2	20	1		7	34
Netherlands Antilles		1					1
Nicaragua	1		7	1		7	16
Panama			2				2
Paraguay		3					3
Peru	2	2	1				5
Philippines				1		2	3
Puerto Rico	7	9	19	1		7	43
Puerto Rico/US Virgin Islands			1				1
Saint Barthélemy		2				1	3
Saint Lucia			1				1
Surinam		1					1
Thailand/Vietnam		1					1
Trinidad and Tobago		2	21			9	32
US Virgin Islands		9				5	14
Venezuela			7			5	12
<b>Grand Total</b>	<b>67</b>	<b>72</b>	<b>374</b>	<b>241</b>	<b>2</b>	<b>188</b>	<b>944</b>

**2024 Dengue Cases Acquired in Florida:** In 2024, 87 cases of locally acquired dengue have been reported in Broward (2), Hillsborough (7), Manatee (8), Miami-Dade (47), Monroe (3), Orange (2), Palm Beach (3), Pasco (13), Polk, and Sarasota (1) counties with onset in January (3), February, March (2), April, June (11), July (8), August (14), September (19), October (12), November (13), and December (3). Three cases were reported in non-Florida residents. Sixty-nine cases have been serotyped by PCR. Please see the table below for a breakdown of cases by county and serotype.

County of Exposure	DENV-1	DENV-3	DENV-4	Unknown	Total
Broward		1		1	2
Hillsborough	2	5			7
Manatee	4	1		3	8
Miami-Dade		37	5	5	47
Monroe	2			1	3
Orange		2			2
Palm Beach		1		2	3
Pasco		7		6	13
Polk			1		1
Sarasota	1				1
<b>Total</b>	<b>9</b>	<b>54</b>	<b>6</b>	<b>18</b>	<b>87</b>

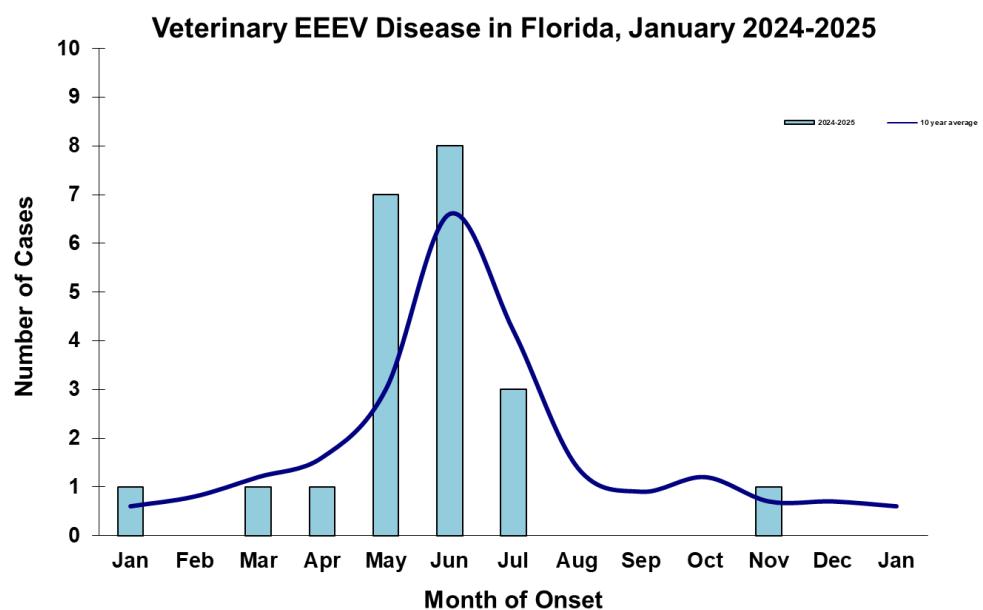
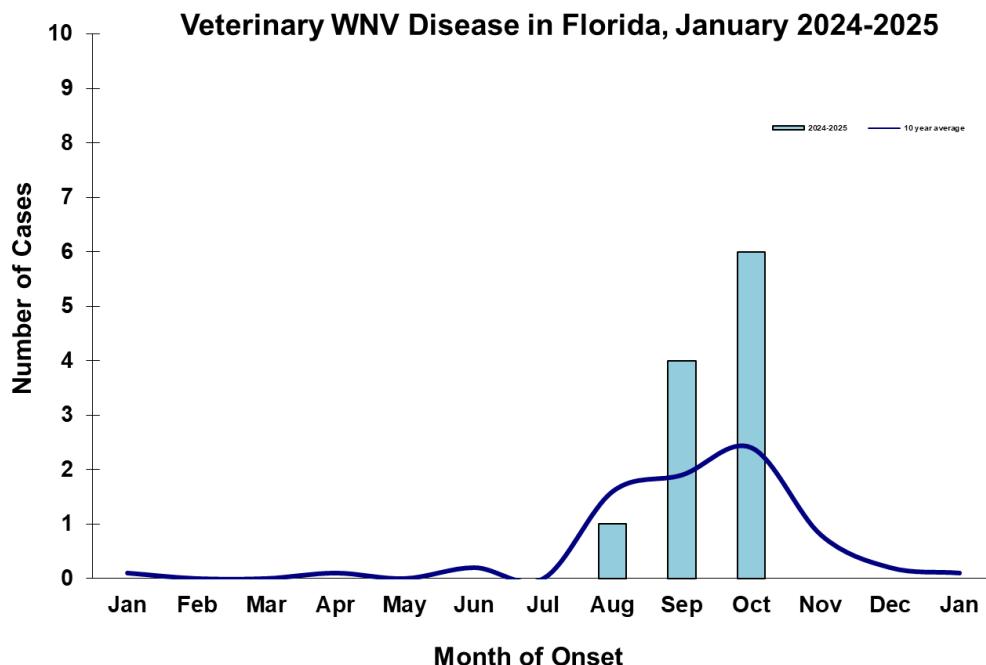
**2024 International Travel-Associated Malaria Cases:** Sixty-nine cases of malaria with onset in 2024 have been reported in individuals with a travel history to a malaria-endemic area. Counties reporting cases were: Alachua (3), Brevard (2), Broward (8), Clay, Collier, Duval (6), Escambia, Flagler, Hillsborough (7), Indian River, Lee (2), Leon (2), Marion, Miami-Dade (4), Monroe, Okaloosa (2), Orange (7), Osceola (2), Palm Beach (3), Pasco (2), Pinellas (5), Polk (2), Santa Rosa, Sarasota, Seminole, and Volusia (2). Eleven cases were reported in non-Florida residents. Please see the table below for a breakdown of cases by country of origin and *Plasmodium* species.

Country of Exposure	<i>Plasmodium falciparum</i>	<i>Plasmodium ovale</i>	<i>Plasmodium vivax</i>	Total
Africa	1			1
Angola	1			1
Benin	1			1
Cameroon	4			4
Central/South America			10	10
Chad	4			4
Côte D'Ivoire	2			2
Ecuador			1	1
Ethiopia	1		2	3
Gabon	1		1	2
Ghana	4			4
Haiti	1			1
Honduras			1	1
India			1	1
Kenya	1			1
Malawi	2			2
Mexico			1	1
Nicaragua			1	1
Nigeria	19			19
Republic of the Congo		1		1
Sierra Leone	2			2
Solomon Islands			1	1
Sudan	1			1
Tanzania	2			2
Togo	1			1
Uganda/Rwanda	1			1
<b>Total</b>	<b>49</b>	<b>1</b>	<b>19</b>	<b>69</b>

## Veterinary Cases\*\*

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

No veterinary cases were reported this week.



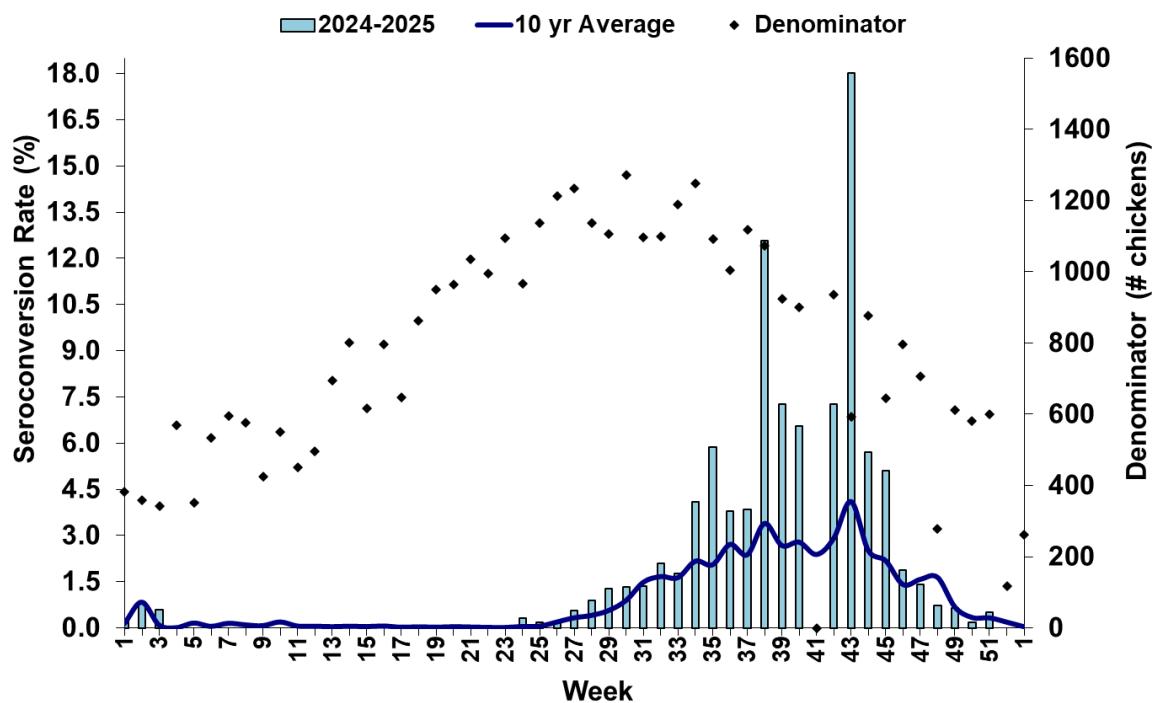
## Sentinel Chickens

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.

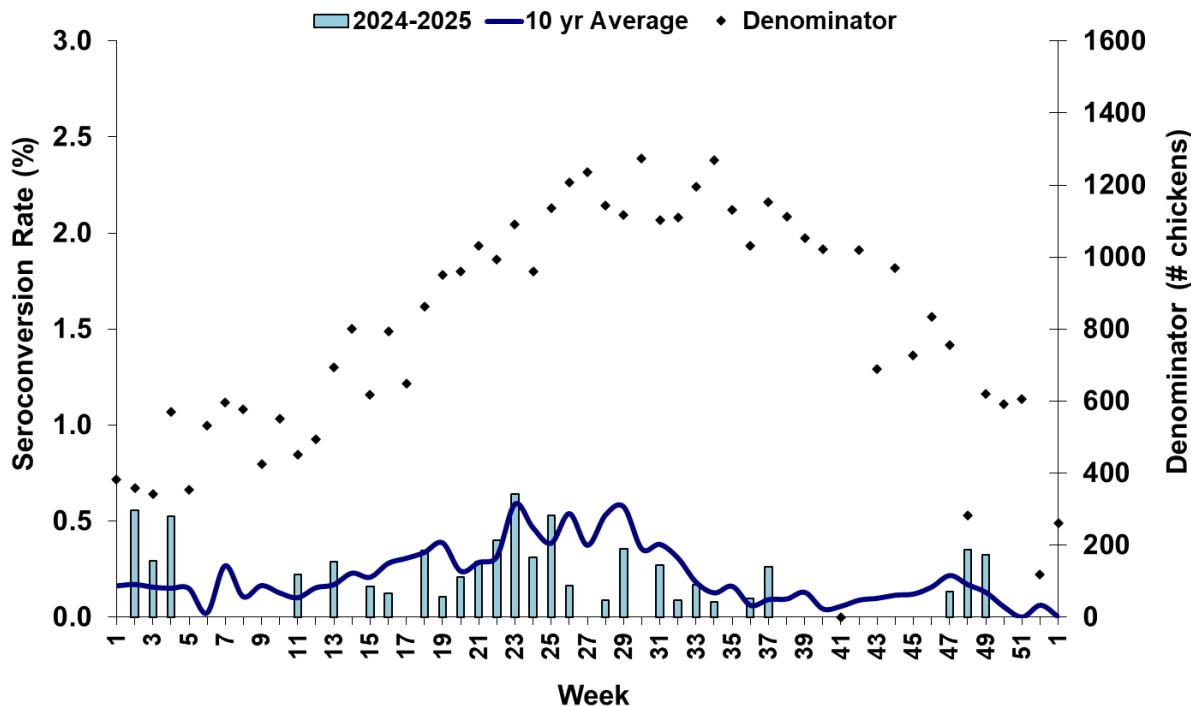
No sentinel chickens tested positive for antibodies to SLEV, WNV, EEEV, or HJV this week.

County	Collection Date	Seroconversion Rates (%)						County Totals	
		Flavi	SLEV	WNV	Alpha	EEEV	HJV	Collection Week	YTD

### Sentinel Seroconversions to WNV in Florida, 2024–2025



## Sentinel Seroconversions to EEEV in Florida, 2024–2025



### Mosquito Pools

No mosquito pools tested positive for WNV this week in Pasco County.

County	Collection Date	Result	Species	County YTD

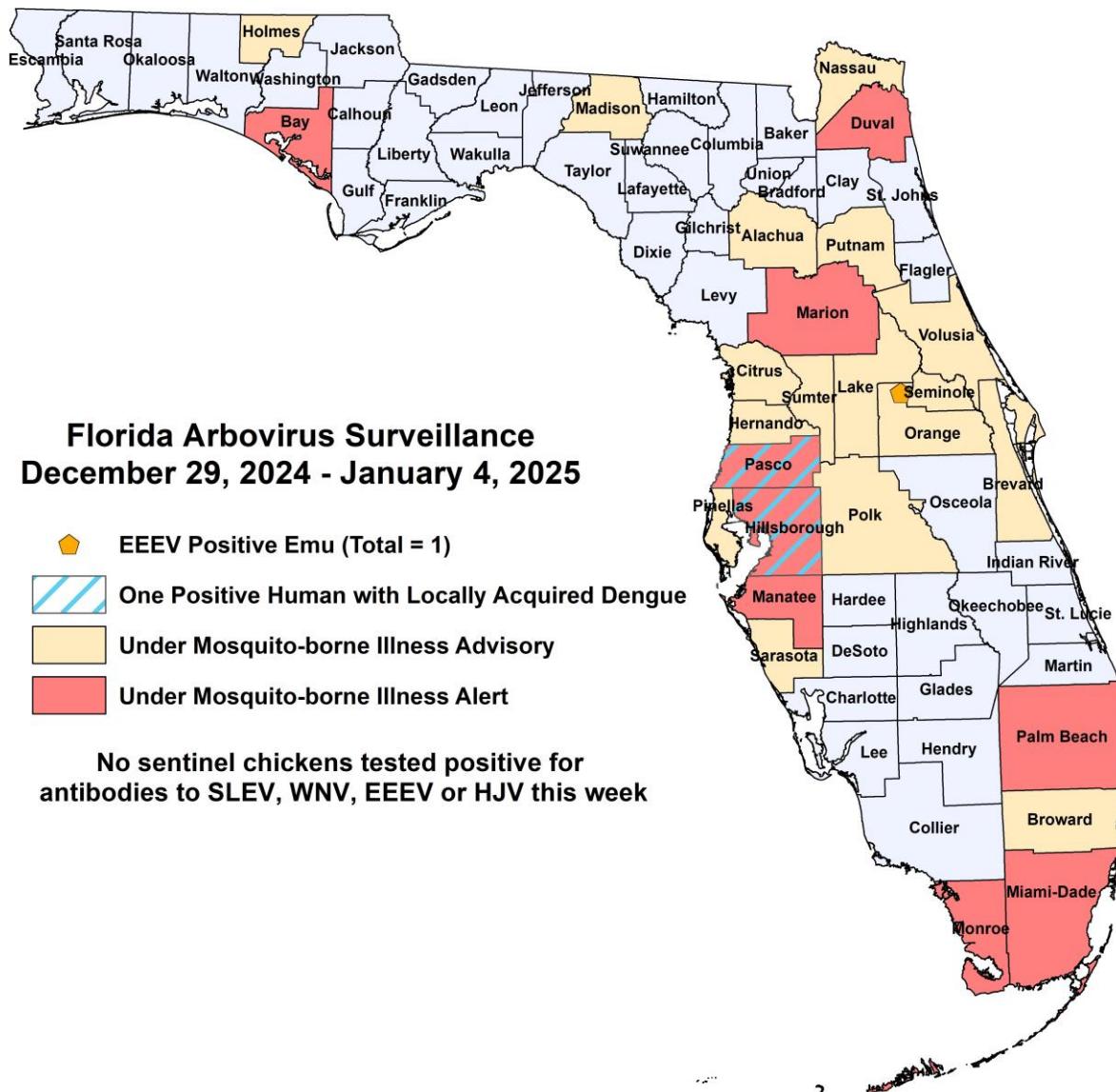
### Dead Birds

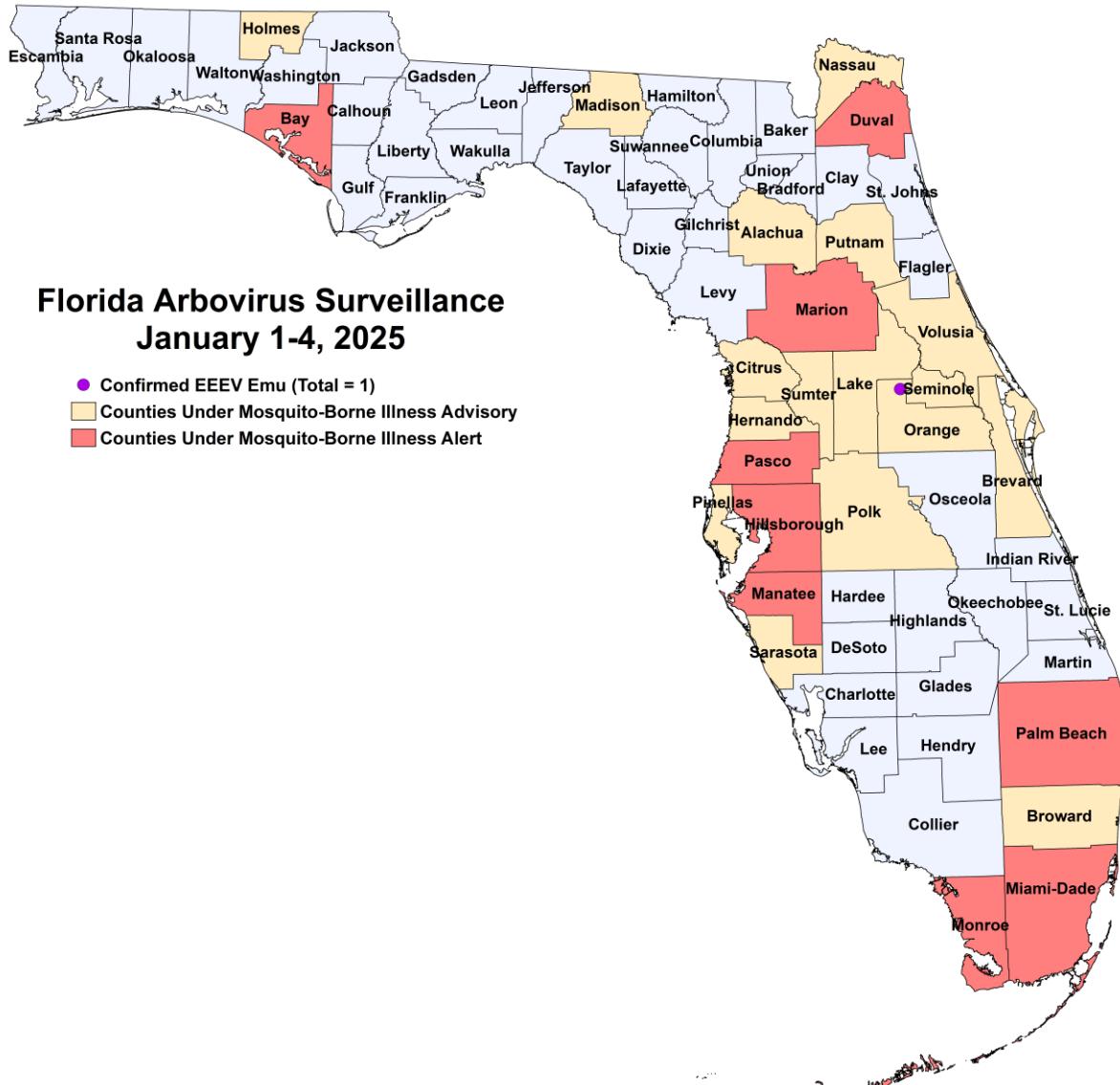
The Fish and Wildlife Conservation Commission (FWC) collects reports of dead birds, which can be an indication of arbovirus circulation in an area. This week, 35 reports representing a total of 70 dead birds, including three raptors, were received from 18 counties.

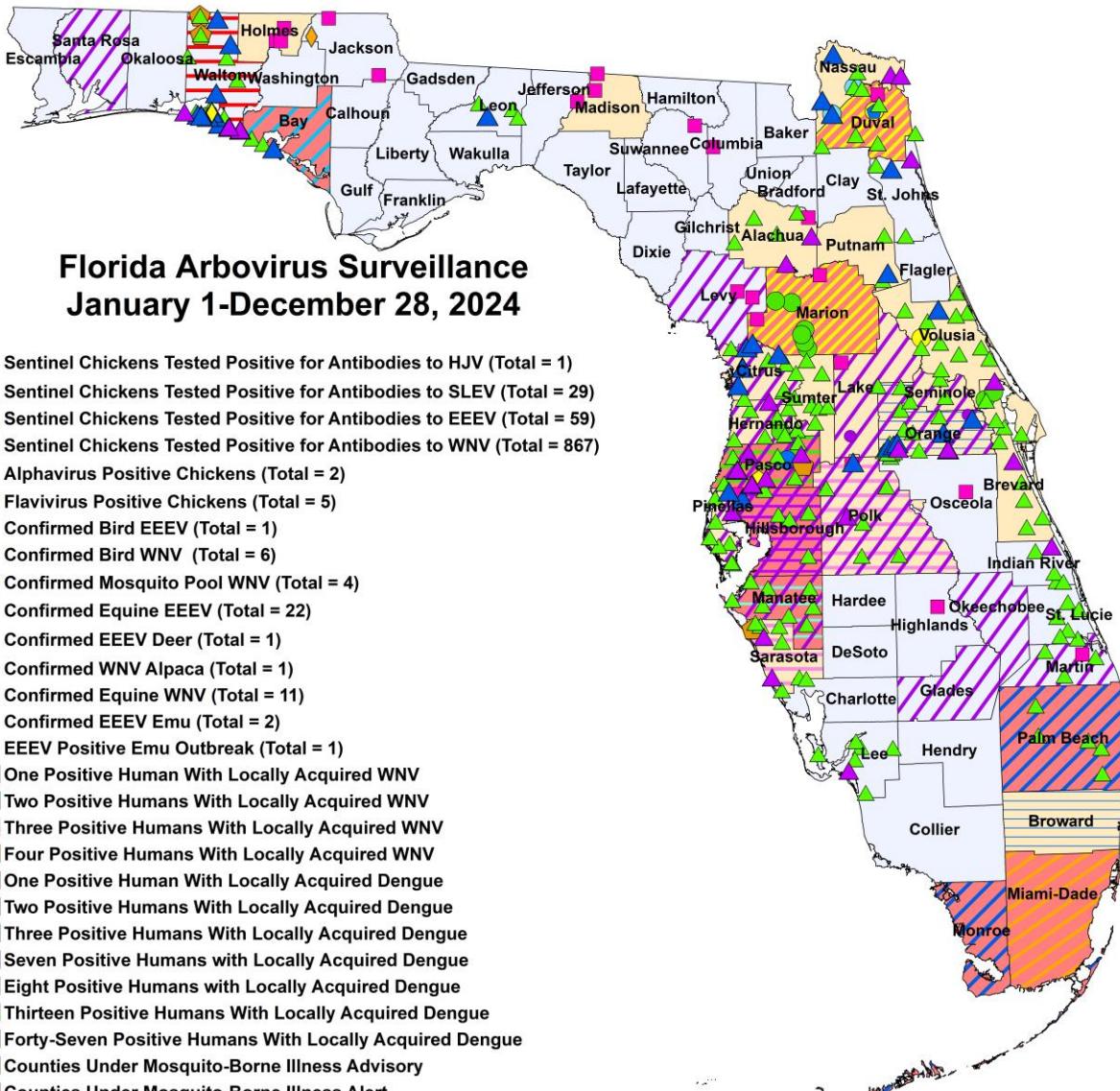
In 2025, 35 reports representing a total of 70 dead birds (3 raptors) were received from 18 of Florida's 67 counties.

<b>County</b>	<b>Total Dead Birds</b>	<b>Crows</b>	<b>Jays</b>	<b>Raptors</b>	<b>Doves</b>
Alachua	2	0	0	1	0
Brevard	2	0	0	0	0
Calhoun	1	0	0	1	0
Charlotte	2	0	0	0	0
Escambia	4	0	0	0	0
Gulf	1	0	0	0	0
Hillsborough	2	0	0	0	0
Lake	1	0	0	0	0
Lee	3	0	0	0	0
Manatee	2	0	0	0	0
Miami Dade	33	0	0	0	0
Okaloosa	1	0	0	0	0
Orange	2	0	0	0	0
Palm Beach	2	0	0	0	0
Pinellas	3	0	0	0	0
Santa Rosa	2	0	0	0	0
St. Johns	6	0	0	0	0
Sumter	1	0	0	1	0

## Maps







### 2025 Mosquito-Borne Disease Activity by County

County	Humans	Equines	Sentinel Chickens	Other
Orange				1 EEEV emu (1/1)

### 2024 Mosquito-Borne Disease Activity by County

County	Humans	Equines	Sentinel Chickens	Other
Alachua		1 EEEV (6/21)	26 WNV (7/2, 7/24, 8/2, 8/19, 9/13, 9/18(2), 9/26, 10/11, 10/17, 10/24) 5 SLEV (8/15, 8/30)	
Bay	2 WNV (August, September)		2 EEEV (5/28, 6/10) 19 WNV (7/22, 8/5, 8/12, 8/19, 8/26, 9/14, 9/17, 9/23)	

County	Humans	Equines	Sentinel Chickens	Other
Brevard		2 WNV (9/11, 10/10)	41 WNV (1/3, 7/19, 7/26, 8/13, 8/14, 8/15, 8/22, 8/28, 8/29, 8/30, 9/5, 9/6, 9/12, 9/13, 9/19, 9/20, 9/27, 10/7, 10/8, 10/16, 10/17, 10/18, 10/23, 10/24, 10/25, 10/31, 11/6, 11/7) 2 SLEV (8/23, 9/19)	
Broward	2 dengue (August, September)			
Charlotte			1 WNV (8/30)	
Citrus	1 asymptomatic WNV (October)		74 WNV (1/9, 1/15, 6/25, 7/8, 8/19, 9/3, 9/9, 9/16, 9/23, 9/30, 10/8, 10/21, 10/28, 11/5, 11/13, 11/19, 11/26, 12/16) 7 EEEV (1/9, 1/15, 2/26, 3/11, 5/20, 11/26) 1 Alphavirus (5/20) 1 SLEV (8/19)	
Columbia		1 EEEV (6/16)		
Duval	3 WNV (July, September, October) 1 asymptomatic WNV blood donor (August)	1 EEEV (5/25)	21 WNV (7/8, 7/15, 8/19, 8/26, 9/16, 9/23, 9/30, 10/14, 10/28)	3 WNV ducks (9/11, 10/11, 11/30) 1 EEEV duck (10/11)
Glades	1 WNV (October)			
Hernando	1 asymptomatic WNV blood donor (October)	1 WNV (10/27)	31 WNV (8/26, 9/9, 9/16, 9/23, 9/30, 10/14, 10/21, 10/28, 11/4)	
Highlands		1 EEEV (5/25)		
Hillsborough	7 dengue (June (2), August, September, November (2), December) 1 WNV (October)	1 EEEV (5/26)	1 EEEV (6/3) 28 WNV (6/10, 8/19, 8/26, 9/3, 9/9, 9/12, 9/23, 10/2, 10/7, 10/21, 10/28, 11/4)	
Holmes		3 EEEV (6/16, 6/19)		
Indian River			1 SLEV (7/18) 6 WNV (9/13, 10/17, 10/25, 10/31)	
Jackson		2 EEEV (5/30, 11/7)		1 EEEV deer (7/16)
Lake	1 WNV (October)	1 EEEV (7/31)		1 EEEV emu (2/6)
Lee			1 SLEV (8/5) 10 WNV (8/12, 8/26, 9/24, 9/30, 10/1, 10/14, 10/22, 11/11, 11/26)	
Leon			1 EEEV (6/18) 9 WNV (8/19, 8/27, 9/10, 9/16, 11/18)	
Levy	1 WNV (October)	2 EEEV (5/21, 7/4)		
Madison		3 EEEV (6/20, 6/29, 7/24)		
Mantatee	8 dengue (July, October (3), November (4)) 1 WNV (August)		17 WNV (8/7, 8/20, 8/27, 9/4, 9/17, 9/24, 10/1, 10/15, 10/17)	
Marion	2 asymptomatic WNV blood donor (July, October) 2 WNV (July, September)	2 EEEV (1/31, 3/29) 8 WNV (8/14, 9/9, 9/21, 9/27, 10/2, 10/22, 10/29, 10/31)		
Martin	1 WNV (September)	1 EEEV (5/27)	4 WNV (9/26, 10/17, 10/31)	

County	Humans	Equines	Sentinel Chickens	Other
<b>Miami-Dade</b>	47 dengue (January (2), February, March (2), April, June (6), July (7), August (6), September (8), October (8), November (6))			
<b>Monroe</b>	3 dengue (June (3))			
<b>Nassau</b>			6 EEEV (5/3, 9/12) 5 Flavivirus (5/3, 5/18, 5/23) 37 WNV (8/9, 8/17, 8/23, 8/29, 9/7, 9/12, 9/21, 9/28, 10/22) 2 SLEV (8/23)	
<b>Okeechobee</b>	1 WNV (November)			
<b>Orange</b>	2 dengue (August) 1 asymptomatic WNV blood donor (September)		9 EEEV (2/26, 3/25, 5/6, 5/28, 6/3, 7/15, 7/29, 8/5, 8/19) 84 WNV (8/5, 8/6, 8/12, 8/19, 8/26, 9/3, 9/9, 9/16, 9/23, 9/30, 10/14, 10/15, 10/21, 10/28, 11/4, 11/12, 11/18, 12/10) 2 SLEV (8/19, 9/9)	1 EEEV emu (3/16) 1 WNV goose (10/17) 1 WNV flamingo (10/14)
<b>Osceola</b>		1 EEEV (5/2)		
<b>Palm Beach</b>	3 dengue (August (2), September)		15 WNV (3/18, 9/3, 9/30, 10/14, 10/29, 11/5, 11/12, 12/17)	
<b>Pasco</b>	13 dengue (January, August (2), September (6), October, November, December (2)) 1 WNV (November)		2 EEEV (5/13, 9/3) 5 SLEV (6/10, 8/13, 8/19, 9/23) 54 WNV (8/19, 8/26, 9/3, 9/9, 9/16, 9/23, 9/30, 10/15, 11/4, 11/12, 11/18, 12/2, 12/16)	1 EEEV emu flock outbreak (4/22 for first emu) 1 WNV alpaca (10/28) 1 WNV mosquito pool ( <i>Cx. nigripalpus</i> 10/31)
<b>Pinellas</b>	1 WNV (October)		2 EEEV (5/20, 5/28) 59 WNV (7/29, 8/5, 8/12, 8/19, 8/26, 9/3, 9/23, 9/30, 10/7, 10/21, 10/28, 11/4, 11/18) 1 SLEV (9/16)	
<b>Polk</b>	1 dengue (September) 1 asymptomatic WNV blood donor (October)	1 EEEV (4/9)	1 EEEV (6/10) 36 WNV (6/10, 7/22, 7/29, 8/6, 8/19, 8/26, 9/3, 9/16, 9/23, 9/30, 10/15, 10/21, 10/28, 11/18) 1 SLEV (9/3)	
<b>Putnam</b>			1 EEEV (7/15) 10 WNV (8/26, 9/23, 10/7, 10/21, 11/4)	
<b>Santa Rosa</b>	1 WNV (October)			
<b>Sarasota</b>	1 dengue (September)		22 WNV (7/12, 7/26, 8/20, 8/27, 9/2, 9/13, 9/17, 9/18, 9/20, 10/15, 10/22, 10/29, 11/1, 11/5, 11/12) 2 SLEV (8/20, 9/6)	1 WNV mosquito pool ( <i>Cx. quinquefasciatus</i> 9/11)
<b>Seminole</b>	1 WNV (October)		9 WNV (8/19, 9/30, 10/28, 11/4)	
<b>St. Johns</b>			2 EEEV (6/3, 6/10) 10 WNV (8/19, 9/3, 9/9, 9/17, 9/23, 10/14, 10/21) 1 SLEV (9/17)	
<b>St. Lucie</b>			8 WNV (7/2, 9/11, 10/2, 10/17, 10/23)	

County	Humans	Equines	Sentinel Chickens	Other
<b>Sumter</b>			33 WNV (9/9, 9/16, 9/30, 10/21)	
<b>Suwannee</b>		1 EEEV (6/3)		
<b>Volusia</b>			2 EEEV (1/22, 4/8) 72 WNV (7/8, 7/22, 7/29, 8/12, 8/19, 8/26, 9/3, 9/9, 9/16, 9/24, 9/30, 10/7, 10/14, 10/21, 10/28, 11/4, 11/12)	1 WNV goose (8/14)
<b>Walton</b>	2 asymptomatic WNV blood donors (July, August) 1 WNV (July)		23 EEEV (3/25, 4/15, 5/13, 5/28, 6/3, 6/4, 6/17, 6/24, 7/9, 7/15, 7/16, 7/30, 8/13, 11/18, 12/2) 5 SLEV (4/1, 7/29, 8/12, 8/19, 9/23) 1 Alphavirus (6/3) 131 WNV (6/17, 7/1, 7/8, 7/15, 7/16, 7/22, 7/29, 7/30, 8/5, 8/6, 8/12, 8/19, 8/20, 8/26, 9/3, 9/9, 9/16, 9/17, 9/23, 9/24, 9/30, 10/1, 10/21, 10/22, 10/28, 10/29, 11/4, 11/5, 11/12, 11/19, 12/2) 1 HJV (8/12)	2 WNV mosquito pools ( <i>Cx. quinquefasciatus</i> 8/27, mixed <i>Culex</i> spp. 9/10)

### Acknowledgements and Data Sources

Contributors: Andrea Morrison, PhD, MSPH, Rebecca Zimler, PhD, MPH, Olga Ospina, MPH, and Danielle Stanek, DVM, DOH Bureau of Epidemiology; Lea Heberlein, DrPH; Peter Dumoulin, PhD, Maribel Castaneda, and Amanda Davis, 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](http://www.floridahealth.gov/diseases-and-conditions/mosquito-borne-diseases/surveillance.html)

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

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