CDC Centers for Disease Control and Prevention

West Nile Virus

Current Year Data (2023)

ArboNET National Arbovirus Surveillance System

ArboNET is a national arboviral surveillance system managed by CDC and state health departments. ArboNET collects data on arboviral infections among people, veterinary animals, mosquitoes, dead birds, and sentinel animals.

Limitations of ArboNET Data ⌃

Surveillance data have several limitations that should be considered when using and interpreting the data.

1. Under-reporting is a limitation common to all surveillance systems that rely on healthcare providers to consider the disease as a possible diagnosis in a patient, obtain the appropriate laboratory test, and report confirmed to public health authorities.

2. Cases of mild illness (non-neuroinvasive disease) are more likely to be underreported compared to more severe disease (neuroinvasive) cases. The degree of underreporting varies by disease awareness and healthcare-seeking behavior in any area. Surveillance data for non-neuroinvasive disease should not be used to make comparisons of disease activity between different locations or over time.

3. Surveillance data are reported by county of residence, not the location (county or state) of exposure.

4. Non-human surveillance is conducted variably across the country. Absence of non-human activity reported to CDC should not be interpreted as no risk.

5. There is a lag in case reporting to CDC and states and territories may publish surveillance data on different schedules than CDC.

ⓘ **These data are preliminary and subject to change. Data are current as of** *August 8, 2023*. Current season data are updated every week from May through December. Due to delays in reporting, state, territorial, and local health departments may have more up-to-date information than what is presented here.
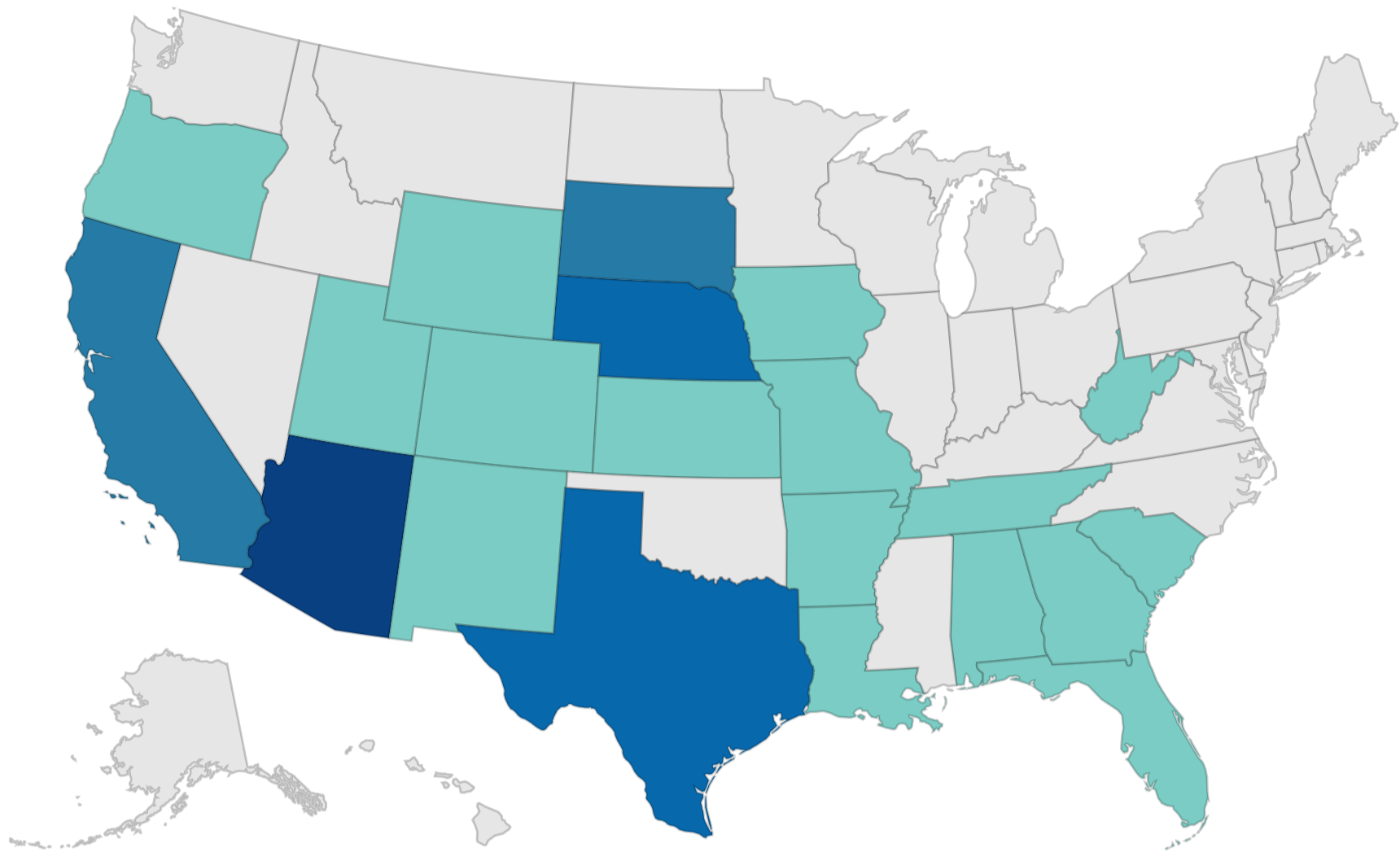
Total Human Disease Cases in 2023*

126

West Nile virus disease cases in 2023

*Total human disease cases includes neuroinvasive and non-neuroinvasive disease cases.

Neuroinvasive Human Disease Cases in 2023

89

West Nile virus neuroinvasive disease cases in 2023

States Reporting Human Disease Cases in 2023

22

States reporting West Nile virus disease cases in 2023

West Nile virus human disease cases reported by state of residence, 2023

○ 1 to 5 ○ 6 to 8 ○ 9 to 25 ○ >25

Data Table - West Nile virus human disease cases reported by state of residence, 2023	—
State	Reported Disease Cases
○ Alabama	1
○ Arkansas	1
○ Arizona	54
○ California	8
○ Colorado	5
○ Florida	1
○ Georgia	2
○ Iowa	1
○ Kansas	3
○ Louisiana	5
○ Missouri	2
○ Nebraska	10
○ New Mexico	3
○ Oregon	3
○ South Carolina	1
○ South Dakota	7
○ Tennessee	2
○ Texas	14
○ Utah	1
○ West Virginia	1
○ Wyoming	1

View the total number of human infections reported by county by hovering over the shaded counties below
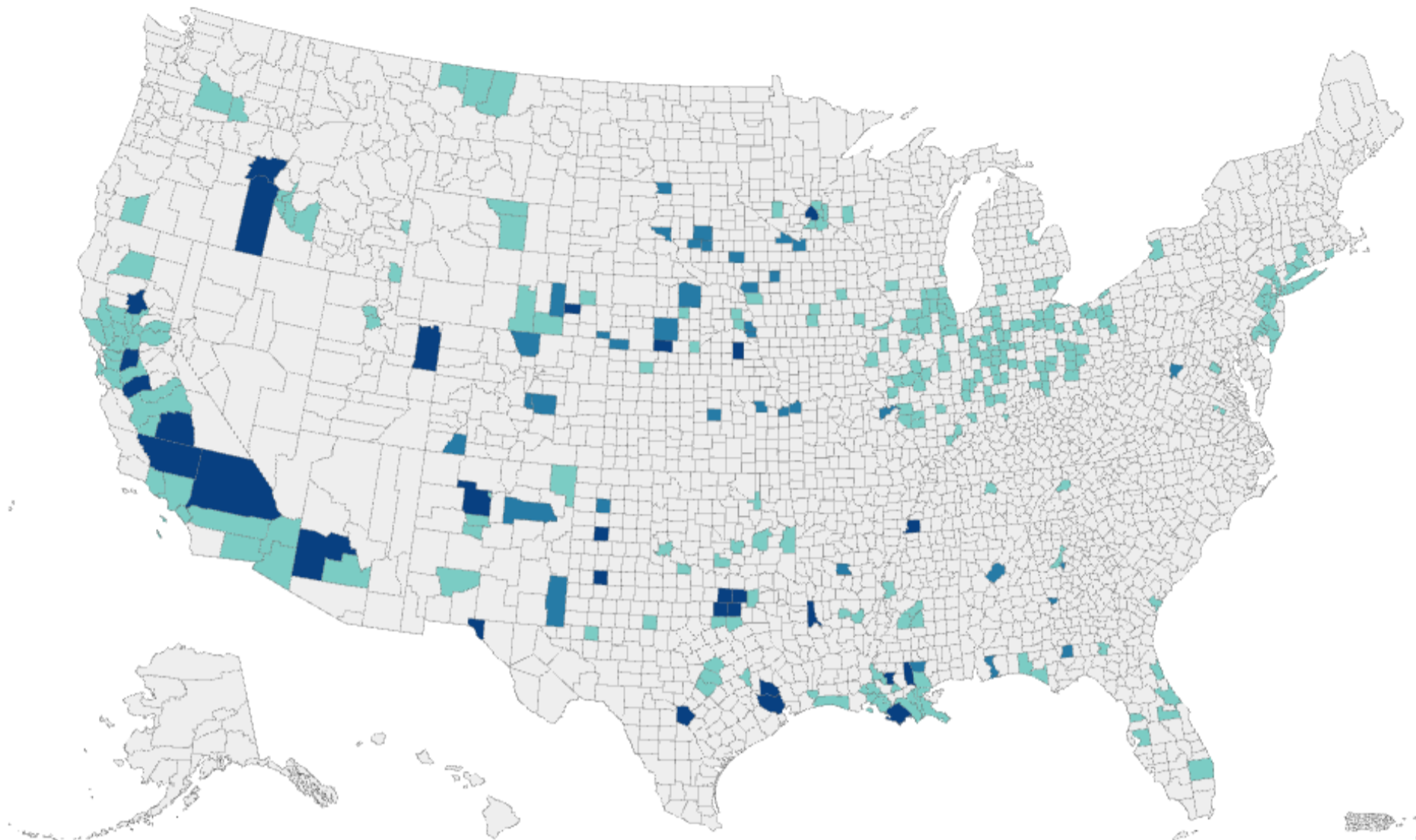
○ Non-human activity   ○ Human infections   ○ Human infections and non-human activity

*Maryland reports state level data only; South Carolina reports state level data only for human infections

About this map:
Non-human activity: Indicates that veterinary disease cases or infections in mosquitoes, birds, or sentinel animals have been reported to CDC.
Human infections: Indicates that human disease cases or infections in blood donors have been reported to CDC.
Human infections and non-human activity: Indicates that both human infections and non-human infections have been reported to CDC.

Download Data (CSV)

Data Table - West Nile virus human and non-human activity by county of residence, 2023*					―
State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…	
○ AL, Jefferson	Human infections	1	1		
○ AZ, La Paz	Non-human activity				
○ AZ, Maricopa	Human infections an…	54	43	8	
○ AZ, Pinal	Non-human activity				
○ AZ, Yuma	Non-human activity				
○ AR, Dallas	Human infections	1	1		
○ CA, Alameda	Non-human activity				
○ CA, Butte	Human infections an…			1	
○ CA, Colusa	Non-human activity				
○ CA, Contra Costa	Non-human activity				
○ CA, El Dorado	Non-human activity				
○ CA, Fresno	Non-human activity				
○ CA, Imperial	Non-human activity				
○ CA, Kern	Human infections an…	1			

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
○ CA, Kings	Non-human activity			
○ CA, Lake	Non-human activity			
○ CA, Los Angeles	Non-human activity			
○ CA, Madera	Non-human activity			
○ CA, Merced	Human infections an…	1		
○ CA, Napa	Non-human activity			
○ CA, Orange	Non-human activity			
○ CA, Placer	Non-human activity			
○ CA, Riverside	Non-human activity			
○ CA, Sacramento	Non-human activity			
○ CA, San Bernardino	Human infections an…	2	2	1
○ CA, San Joaquin	Human infections an…	1	1	
○ CA, San Mateo	Non-human activity			
○ CA, Santa Clara	Non-human activity			
○ CA, Shasta	Non-human activity			
○ CA, Solano	Non-human activity			
○ CA, Sonoma	Non-human activity			
○ CA, Stanislaus	Non-human activity			
○ CA, Sutter	Non-human activity			
○ CA, Tulare	Human infections an…	3	3	
○ CA, Ventura	Non-human activity			
○ CA, Yolo	Non-human activity			
○ CA, Yuba	Non-human activity			
○ CO, El Paso	Human infections	1		
○ CO, La Plata	Human infections	1	1	
○ CO, Larimer	Human infections	2		1
○ CO, Teller	Human infections	1		
○ CT, Fairfield	Non-human activity			
○ CT, Hartford	Non-human activity			
○ CT, New Haven	Non-human activity			
○ FL, Bay	Non-human activity			
○ FL, Escambia	Human infections	1		
○ FL, Hernando	Non-human activity			
○ FL, Hillsborough	Non-human activity			
○ FL, Orange	Non-human activity			
○ FL, Palm Beach	Non-human activity			
○ FL, St Johns	Non-human activity			
○ FL, Volusia	Non-human activity			
○ FL, Walton	Non-human activity			
○ GA, Chatham	Non-human activity			
○ GA, Clayton	Human infections	1	1	
○ GA, Decatur	Human infections	1	1	
○ GA, Fulton	Non-human activity			
○ GA, Lowndes	Non-human activity			

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
◯ GA, Muscogee	Human infections			1
◯ ID, Ada	Non-human activity			
◯ ID, Bear Lake	Non-human activity			
◯ ID, Canyon	Non-human activity			
◯ ID, Elmore	Non-human activity			
◯ ID, Gem	Non-human activity			
◯ ID, Payette	Non-human activity			
◯ ID, Teton	Non-human activity			
◯ IL, Boone	Non-human activity			
◯ IL, Bureau	Non-human activity			
◯ IL, Champaign	Non-human activity			
◯ IL, Christian	Non-human activity			
◯ IL, Clay	Non-human activity			
◯ IL, Clinton	Non-human activity			
◯ IL, Cook	Non-human activity			
◯ IL, De Kalb	Non-human activity			
◯ IL, Du Page	Non-human activity			
◯ IL, Ford	Non-human activity			
◯ IL, Gallatin	Non-human activity			
◯ IL, Greene	Non-human activity			
◯ IL, Hancock	Non-human activity			
◯ IL, Kane	Non-human activity			
◯ IL, Kankakee	Non-human activity			
◯ IL, Lake	Non-human activity			
◯ IL, La Salle	Non-human activity			
◯ IL, Lee	Non-human activity			
◯ IL, Logan	Non-human activity			
◯ IL, Mchenry	Non-human activity			
◯ IL, Macon	Non-human activity			
◯ IL, Madison	Non-human activity			
◯ IL, Morgan	Non-human activity			
◯ IL, Peoria	Non-human activity			
◯ IL, Putnam	Non-human activity			
◯ IL, Rock Island	Non-human activity			
◯ IL, St Clair	Non-human activity			
◯ IL, Sangamon	Non-human activity			
◯ IL, Warren	Non-human activity			
◯ IL, Washington	Non-human activity			
◯ IL, Will	Non-human activity			
◯ IN, Allen	Non-human activity			
◯ IN, Blackford	Non-human activity			
◯ IN, Boone	Non-human activity			
◯ IN, Cass	Non-human activity			
◯ IN, Clay	Non-human activity			

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
◯ IN, Clinton	Non-human activity			
◯ IN, Elkhart	Non-human activity			
◯ IN, Floyd	Non-human activity			
◯ IN, Fulton	Non-human activity			
◯ IN, Grant	Non-human activity			
◯ IN, Hamilton	Non-human activity			
◯ IN, Henry	Non-human activity			
◯ IN, Howard	Non-human activity			
◯ IN, Huntington	Non-human activity			
◯ IN, Jackson	Non-human activity			
◯ IN, Jay	Non-human activity			
◯ IN, Johnson	Non-human activity			
◯ IN, Kosciusko	Non-human activity			
◯ IN, Lawrence	Non-human activity			
◯ IN, Madison	Non-human activity			
◯ IN, Marion	Non-human activity			
◯ IN, Monroe	Non-human activity			
◯ IN, Newton	Non-human activity			
◯ IN, Pike	Non-human activity			
◯ IN, Posey	Non-human activity			
◯ IN, Putnam	Non-human activity			
◯ IN, St Joseph	Non-human activity			
◯ IN, Shelby	Non-human activity			
◯ IN, Sullivan	Non-human activity			
◯ IN, Tippecanoe	Non-human activity			
◯ IN, Tipton	Non-human activity			
◯ IN, Vigo	Non-human activity			
◯ IN, Wabash	Non-human activity			
◯ IN, Wayne	Non-human activity			
◯ IN, White	Non-human activity			
◯ IA, Black Hawk	Non-human activity			
◯ IA, Clay	Human infections			1
◯ IA, Johnson	Non-human activity			
◯ IA, Plymouth	Human infections	1	1	
◯ IA, Polk	Non-human activity			
◯ IA, Story	Non-human activity			
◯ IA, Woodbury	Non-human activity			
◯ KS, Johnson	Human infections	1	1	
◯ KS, Saline	Human infections	1	1	
◯ KS, Shawnee	Human infections	1	1	
◯ LA, Ascension Pa…	Non-human activity			
◯ LA, Caddo Parish	Human infections an…	1	1	
◯ LA, Cameron Parish	Non-human activity			
◯ LA, East Baton R…	Human infections an…	2	2	

State, County	Activity	Total human diseas...	Neuroinvasive dise...	**Presumptive vire...
◯ LA, Iberia Parish	Non-human activity			
◯ LA, Jefferson Parish	Non-human activity			
◯ LA, Lafayette Parish	Non-human activity			
◯ LA, Lafourche Par…	Non-human activity			
◯ LA, Lincoln Parish	Non-human activity			
◯ LA, Orleans Parish	Non-human activity			
◯ LA, Ouachita Parish	Non-human activity			
◯ LA, Plaquemines …	Non-human activity			
◯ LA, Pointe Coupe…	Non-human activity			
◯ LA, St Charles Pa…	Non-human activity			
◯ LA, St Martin Parish	Non-human activity			
◯ LA, St Mary Parish	Non-human activity			
◯ LA, St Tammany …	Non-human activity			
◯ LA, Tangipahoa P…	Human infections an…			1
◯ LA, Terrebonne P…	Human infections an…	1	1	
◯ LA, Washington P…	Human infections	1	1	
◯ LA, West Baton R…	Non-human activity			
◯ MI, Bay	Non-human activity			
◯ MI, Kalamazoo	Non-human activity			
◯ MI, Washtenaw	Non-human activity			
◯ MI, Wayne	Non-human activity			
◯ MN, Anoka	Non-human activity			
◯ MN, Blue Earth	Human infections			1
◯ MN, Brown	Human infections			1
◯ MN, Dakota	Non-human activity			
◯ MN, Hennepin	Human infections an…			1
◯ MN, Kandiyohi	Non-human activity			
◯ MN, Ramsey	Non-human activity			
◯ MN, Scott	Non-human activity			
◯ MN, Washington	Non-human activity			
◯ MS, Hinds	Non-human activity			
◯ MS, Madison	Non-human activity			
◯ MS, Rankin	Non-human activity			
◯ MS, Washington	Non-human activity			
◯ MO, Jackson	Human infections	1	1	
◯ MO, St Charles	Human infections	1	1	
◯ MT, Blaine	Non-human activity			
◯ MT, Hill	Non-human activity			
◯ MT, Phillips	Non-human activity			
◯ NE, Box Butte	Non-human activity			
◯ NE, Cuming	Non-human activity			
◯ NE, Custer	Human infections			1
◯ NE, Dawson	Human infections an…	1		1
◯ NE, Deuel	Human infections	1		

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
◯ NE, Dodge	Non-human activity			
◯ NE, Douglas	Human infections	1	1	
◯ NE, Garfield	Non-human activity			
◯ NE, Hall	Non-human activity			
◯ NE, Holt	Human infections	1	1	
◯ NE, Lancaster	Human infections an…	1	1	
◯ NE, Perkins	Human infections	1		
◯ NE, Red Willow	Non-human activity			
◯ NE, Scotts Bluff	Human infections an…	3	2	
◯ NE, Washington	Human infections	1		
◯ NJ, Atlantic	Non-human activity			
◯ NJ, Bergen	Non-human activity			
◯ NJ, Burlington	Non-human activity			
◯ NJ, Camden	Non-human activity			
◯ NJ, Cape May	Non-human activity			
◯ NJ, Gloucester	Non-human activity			
◯ NJ, Hudson	Non-human activity			
◯ NJ, Hunterdon	Non-human activity			
◯ NJ, Mercer	Non-human activity			
◯ NJ, Middlesex	Non-human activity			
◯ NJ, Morris	Non-human activity			
◯ NJ, Salem	Non-human activity			
◯ NJ, Somerset	Non-human activity			
◯ NJ, Union	Non-human activity			
◯ NM, Bernalillo	Non-human activity			
◯ NM, Lea	Human infections	1	1	
◯ NM, Los Alamos	Non-human activity			
◯ NM, Sandoval	Human infections an…	1	1	
◯ NM, San Miguel	Human infections	1	1	
◯ NM, Sierra	Non-human activity			
◯ NM, Union	Non-human activity			
◯ NM, Valencia	Non-human activity			
◯ NY, Bronx	Non-human activity			
◯ NY, Erie	Non-human activity			
◯ NY, Kings	Non-human activity			
◯ NY, Nassau	Non-human activity			
◯ NY, Orange	Non-human activity			
◯ NY, Queens	Non-human activity			
◯ NY, Richmond	Non-human activity			
◯ NY, Rockland	Non-human activity			
◯ NY, Suffolk	Non-human activity			
◯ OH, Carroll	Non-human activity			
◯ OH, Clark	Non-human activity			
◯ OH, Clermont	Non-human activity			

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
○ OH, Delaware	Non-human activity			
○ OH, Fairfield	Non-human activity			
○ OH, Franklin	Non-human activity			
○ OH, Greene	Non-human activity			
○ OH, Hamilton	Non-human activity			
○ OH, Hancock	Non-human activity			
○ OH, Henry	Non-human activity			
○ OH, Lake	Non-human activity			
○ OH, Licking	Non-human activity			
○ OH, Lorain	Non-human activity			
○ OH, Medina	Non-human activity			
○ OH, Montgomery	Non-human activity			
○ OH, Ottawa	Non-human activity			
○ OH, Paulding	Non-human activity			
○ OH, Pickaway	Non-human activity			
○ OH, Portage	Non-human activity			
○ OH, Putnam	Non-human activity			
○ OH, Richland	Non-human activity			
○ OH, Ross	Non-human activity			
○ OH, Stark	Non-human activity			
○ OH, Summit	Non-human activity			
○ OH, Union	Non-human activity			
○ OH, Warren	Non-human activity			
○ OH, Wood	Non-human activity			
○ OH, Wyandot	Non-human activity			
○ OK, Carter	Non-human activity			
○ OK, Jackson	Non-human activity			
○ OK, Le Flore	Non-human activity			
○ OK, Pittsburg	Non-human activity			
○ OK, Pontotoc	Non-human activity			
○ OK, Tulsa	Non-human activity			
○ OR, Baker	Human infections an…	1		
○ OR, Jackson	Non-human activity			
○ OR, Malheur	Human infections an…	2		
○ RI, Washington	Non-human activity			
○ SD, Beadle	Human infections	2		
○ SD, Campbell	Human infections	1		
○ SD, Hughes	Human infections	1		
○ SD, Jerauld	Human infections	1	1	
○ SD, Minnehaha	Human infections	1		
○ SD, Sanborn	Human infections	1		
○ TN, Davidson	Non-human activity			
○ TN, Knox	Non-human activity			
○ TN, Shelby	Human infections an…	2		1

State, County	Activity	Total human diseas…	Neuroinvasive dise…	**Presumptive vire…
◯ TX, Bell	Non-human activity			
◯ TX, Bexar	Human infections an…	2	2	1
◯ TX, Brazos	Non-human activity			
◯ TX, Collin	Human infections an…	1		
◯ TX, Dallas	Human infections an…	5	4	
◯ TX, Denton	Human infections an…	1	1	
◯ TX, Ellis	Non-human activity			
◯ TX, El Paso	Human infections an…	1	1	1
◯ TX, Harris	Human infections an…			1
◯ TX, Hunt	Non-human activity			
◯ TX, Johnson	Non-human activity			
◯ TX, Lubbock	Human infections an…	1	1	1
◯ TX, Midland	Non-human activity			
◯ TX, Montgomery	Human infections an…	1	1	
◯ TX, Moore	Human infections			1
◯ TX, Orange	Non-human activity			
◯ TX, Randall	Human infections an…			1
◯ TX, Tarrant	Human infections an…	2	2	
◯ TX, Taylor	Non-human activity			
◯ TX, Travis	Non-human activity			
◯ TX, Wichita	Non-human activity			
◯ TX, Williamson	Non-human activity			
◯ UT, Davis	Non-human activity			
◯ UT, Salt Lake	Non-human activity			
◯ UT, Uintah	Human infections an…	1		
◯ VA, Fairfax	Non-human activity			
◯ VA, Henrico	Non-human activity			
◯ WA, Benton	Non-human activity			
◯ WA, Yakima	Non-human activity			
◯ WV, Hardy	Human infections	1	1	
◯ WI, Dunn	Non-human activity			
◯ WI, Lafayette	Non-human activity			
◯ WI, Milwaukee	Non-human activity			
◯ WY, Albany	Non-human activity			
◯ WY, Goshen	Human infections	1	1	
◯ WY, Johnson	Non-human activity			
◯ WY, Laramie	Non-human activity			
◯ WY, Sheridan	Non-human activity			

**Presumptive viremic blood donors (PVD) are people who had no symptoms at the time of donating blood through a blood collection agency, but whose blood tested positive when screened for the presence of West Nile virus. Some PVDs develop symptoms after donation.