



Reported WNV disease cases

To date, 22 human WNV disease cases have been reported from 19 counties in 12 states [Table 1]. Dates of illness onset for cases ranged from January–August [Figure 2].

Of the 22 reported cases, 13 (59.1%) were classified as neuroinvasive disease (e.g., meningitis or encephalitis) and 9 (40.9%) were classified as non-neuroinvasive disease [Table 1 and Figure 3].

Presumptive viremic donors (PVDs)

Overall, 32 WNV PVDs have been reported from four states. [Table 1].

Table 1. West Nile virus infections in humans reported to ArboNET, 2020

State	Human disease cases reported to CDC*			Deaths	Presumptive viremic blood donors
	Neuroinvasive	Non-neuroinvasive	Total		
Arizona	3	1	4	0	0
Arkansas	1	0	1	0	0
California	1	1	2	0	2
Florida	1	2	3	0	24
Iowa	1	0	1	0	0
Massachusetts	0	1	1	0	1
Mississippi	1	1	2	0	0
Missouri	1	0	1	0	0
New Mexico	3	0	3	0	0
Pennsylvania	0	1	1	0	0
South Dakota	0	2	2	0	0
Texas	1	0	1	0	5
Totals	13	9	22	0	32

*Includes confirmed and probable cases

Figure 2. West Nile virus disease cases reported to ArboNET, by month of onset — United States, 2020 (as of August 11, 2020)

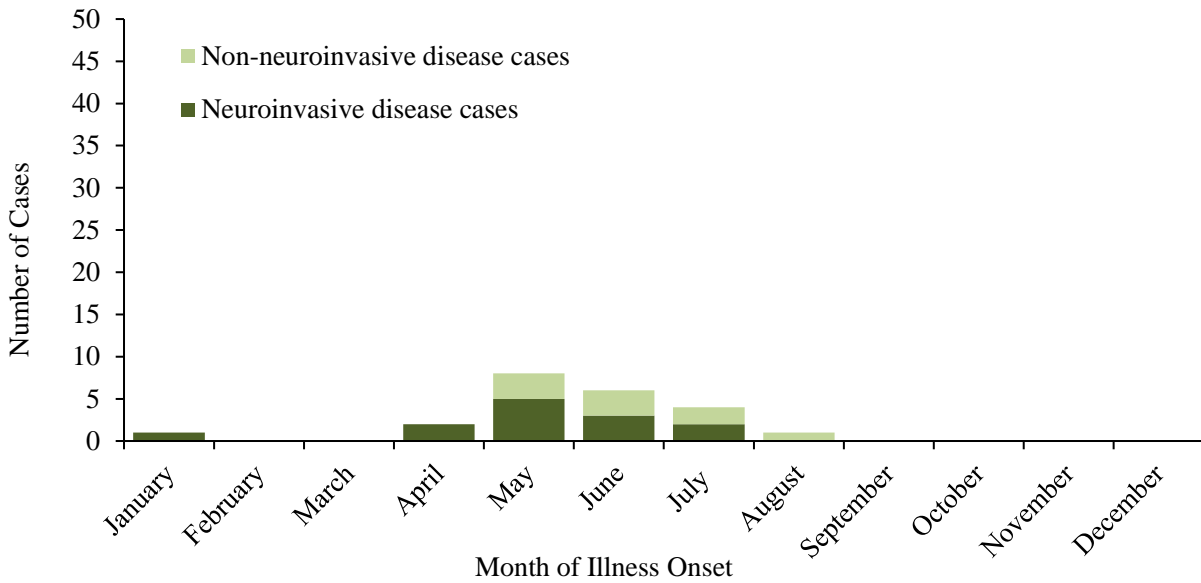
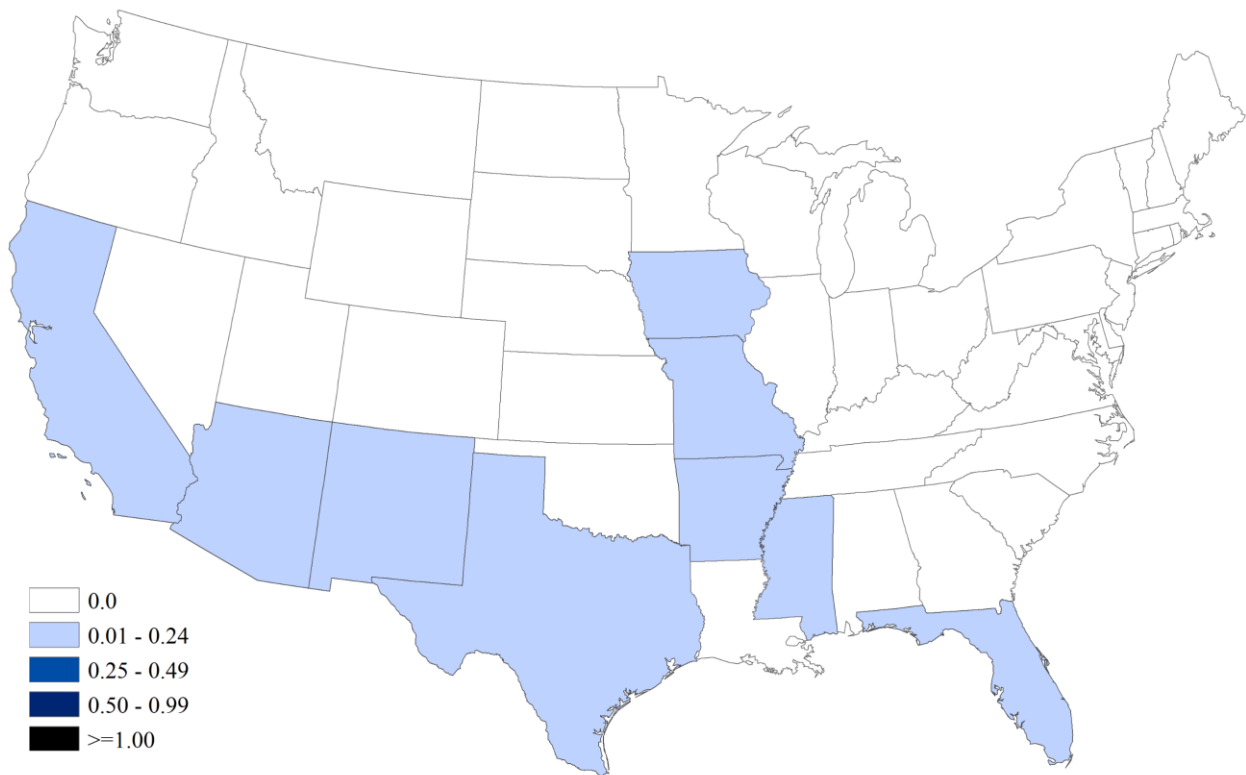


Figure 3. West Nile virus (WNV) neuroinvasive disease incidence* reported to ArboNET, by state — United States, 2020 (as of August 11, 2020)



*Incidence per 100,000 population

Eastern equine encephalitis virus (EEEV) activity in 2020

As of August 11th, one human case of EEE has been reported from Massachusetts [Figure 4 and Table 2]. Nine states have reported EEEV activity in non-human species to ArboNET for 2020.

Figure 4. Eastern equine encephalitis virus (EEEV) activity reported to ArboNET, by state — United States, 2020 (as of August 11, 2020)

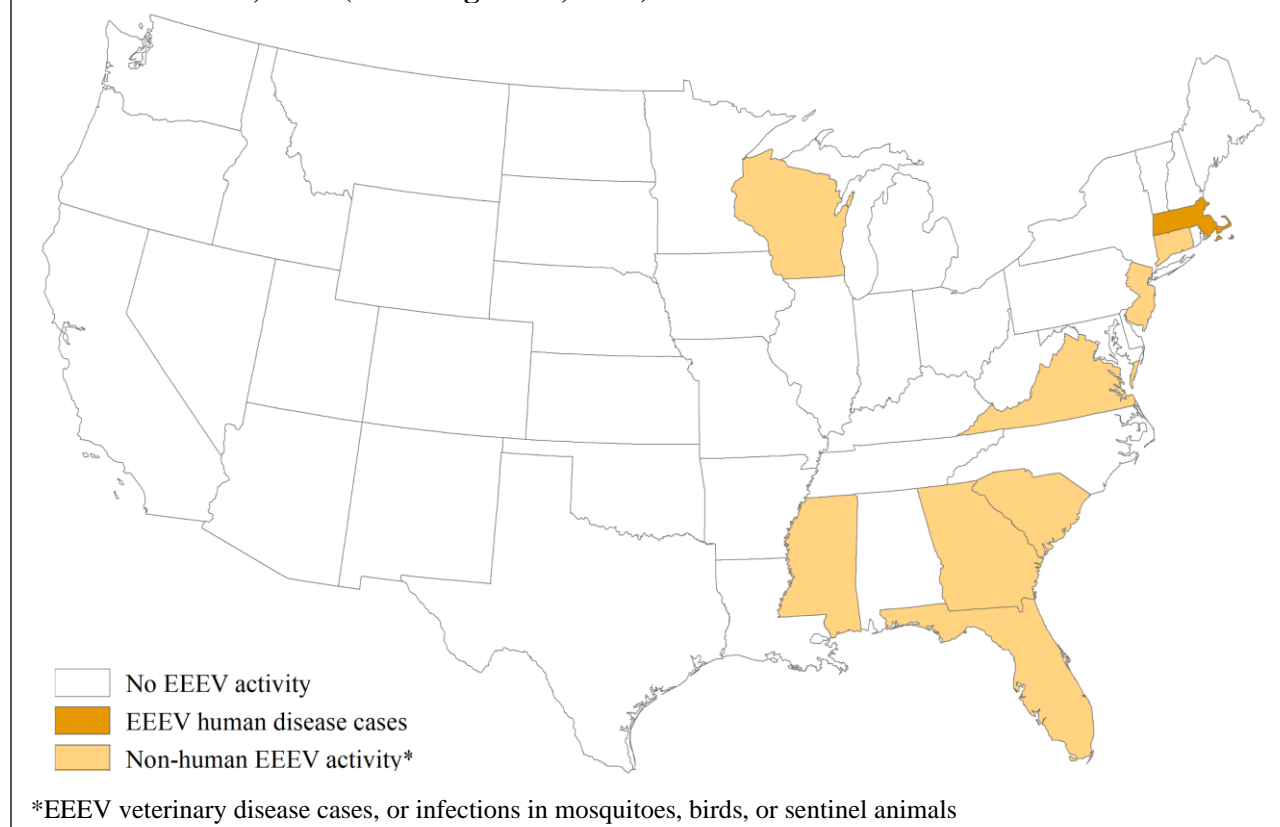


Table 2. Eastern Equine encephalitis virus human disease cases reported to ArboNET, United States, 2020

State	Neuroinvasive disease cases	Non-neuroinvasive disease cases	Total cases*	Deaths
Massachusetts	1	0	1	0
Totals	1	0	1	0

*Includes confirmed and probable cases

Jamestown Canyon virus (JCV) activity in 2020

As of August 11th, three human cases of JCV have been reported from Michigan and New Hampshire [Table 3 and Figure 5]. To date, two states, Connecticut and New Jersey, have reported JCV activity in non-human species to ArboNET for 2020.

Figure 5. Jamestown Canyon virus (JCV) activity reported to ArboNET, by state — United States, 2020 (as of August 11, 2020)

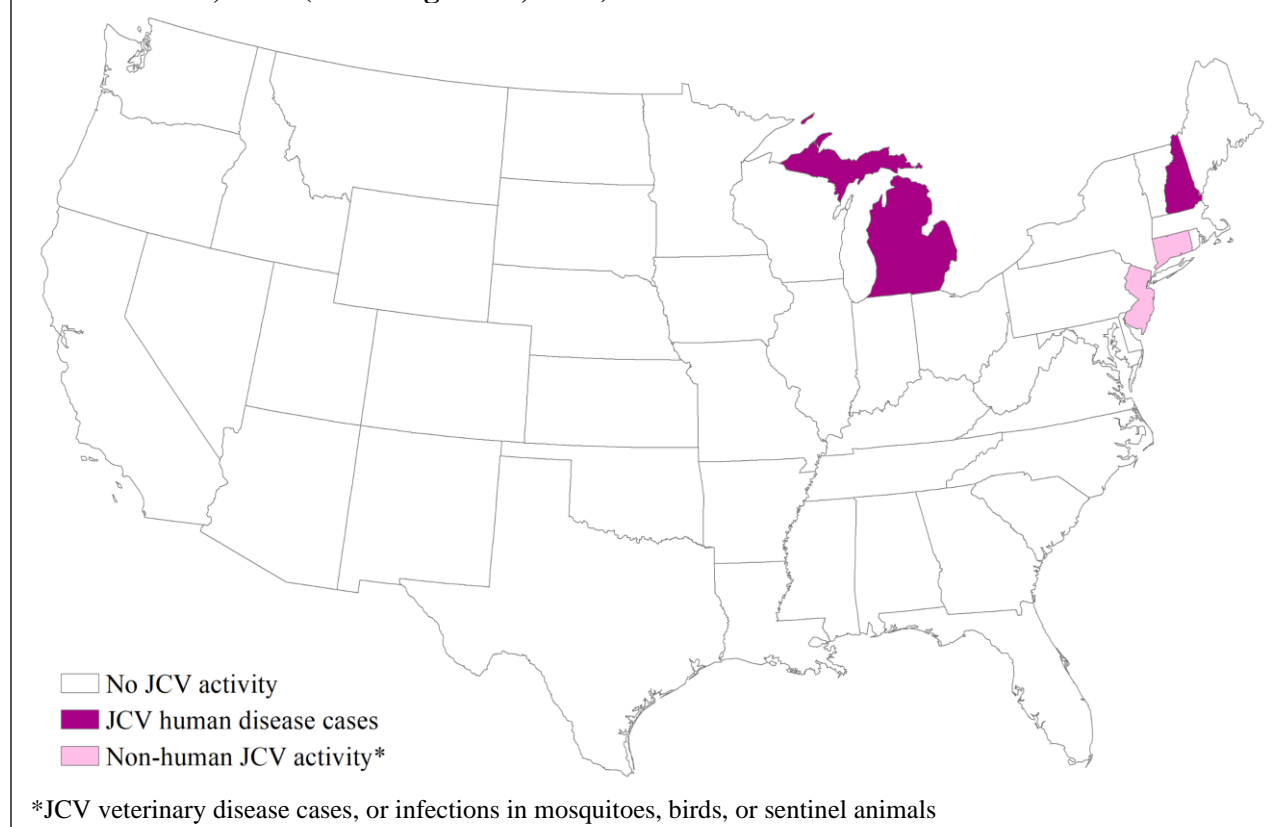


Table 3. Jamestown Canyon virus human disease cases reported to ArboNET, United States, 2020

State	Neuroinvasive disease cases	Non-neuroinvasive disease cases	Total cases*	Deaths
Michigan	1	0	1	0
New Hampshire	2	0	2	0
Totals	3	0	3	0

*Includes confirmed and probable cases

La Crosse encephalitis virus (LACV) activity in 2020

As of August 11th, six human cases of LACV disease in two states, North Carolina and Tennessee, have been reported to ArboNET for 2020 [Figure 6 and Table 4]. To date, no states have reported LACV activity in non-human species.

Figure 6. La Crosse encephalitis virus (LACV) activity reported to ArboNET, by state — United States, 2020 (as of August 11, 2020)

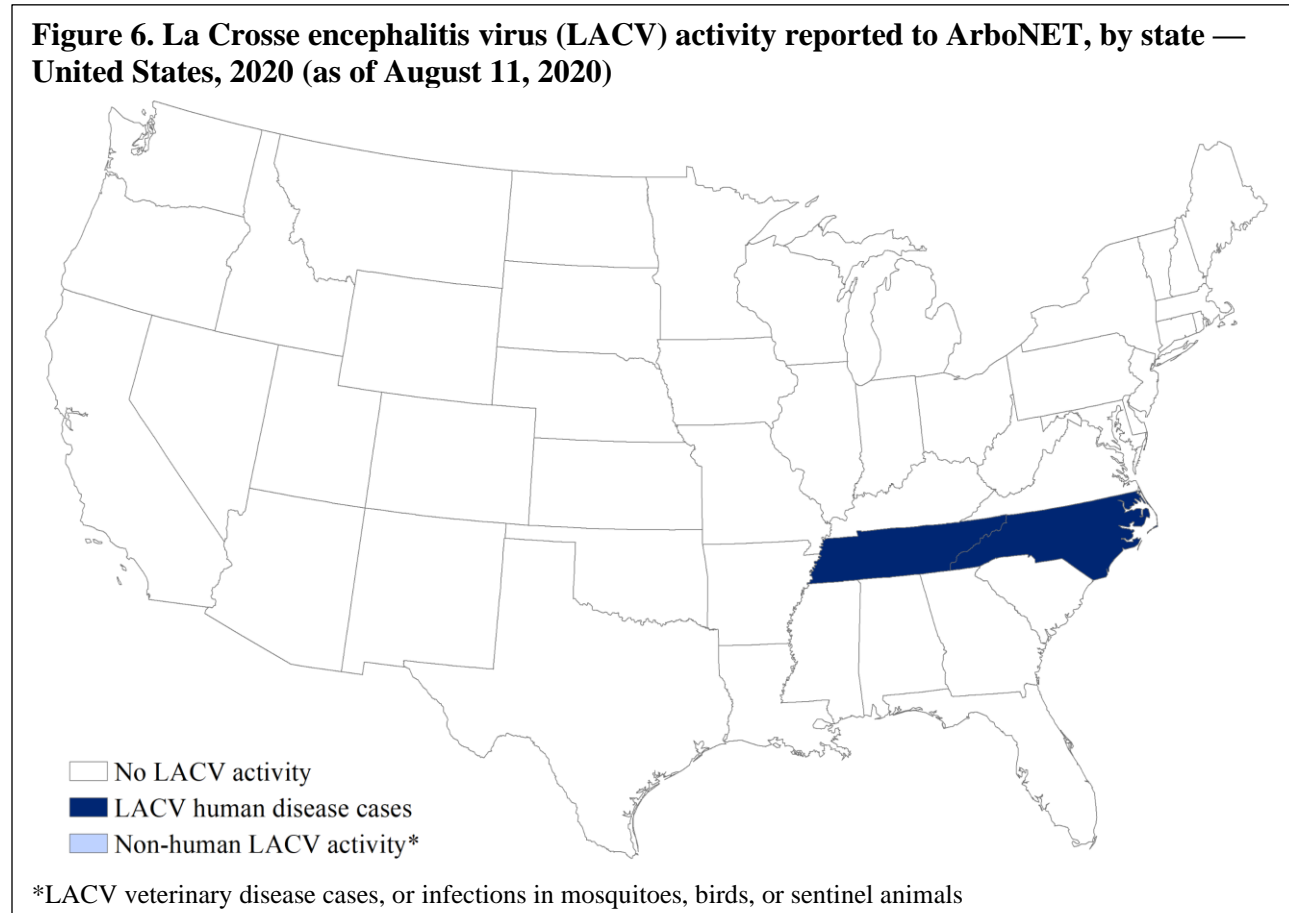


Table 4. La Crosse encephalitis virus human disease cases reported to ArboNET, United States, 2020

State	Neuroinvasive disease cases	Non-neuroinvasive disease cases	Total cases*	Deaths
North Carolina	1	0	1	0
Tennessee	5	0	5	0
Totals	6	0	6	0

*Includes confirmed and probable cases

Powassan virus (POWV) activity in 2020

As of August 11th, four human cases of POWV disease in three states, Connecticut, Massachusetts, and Pennsylvania, have been reported to ArboNET for 2020 [Figure 7 and Table 5].

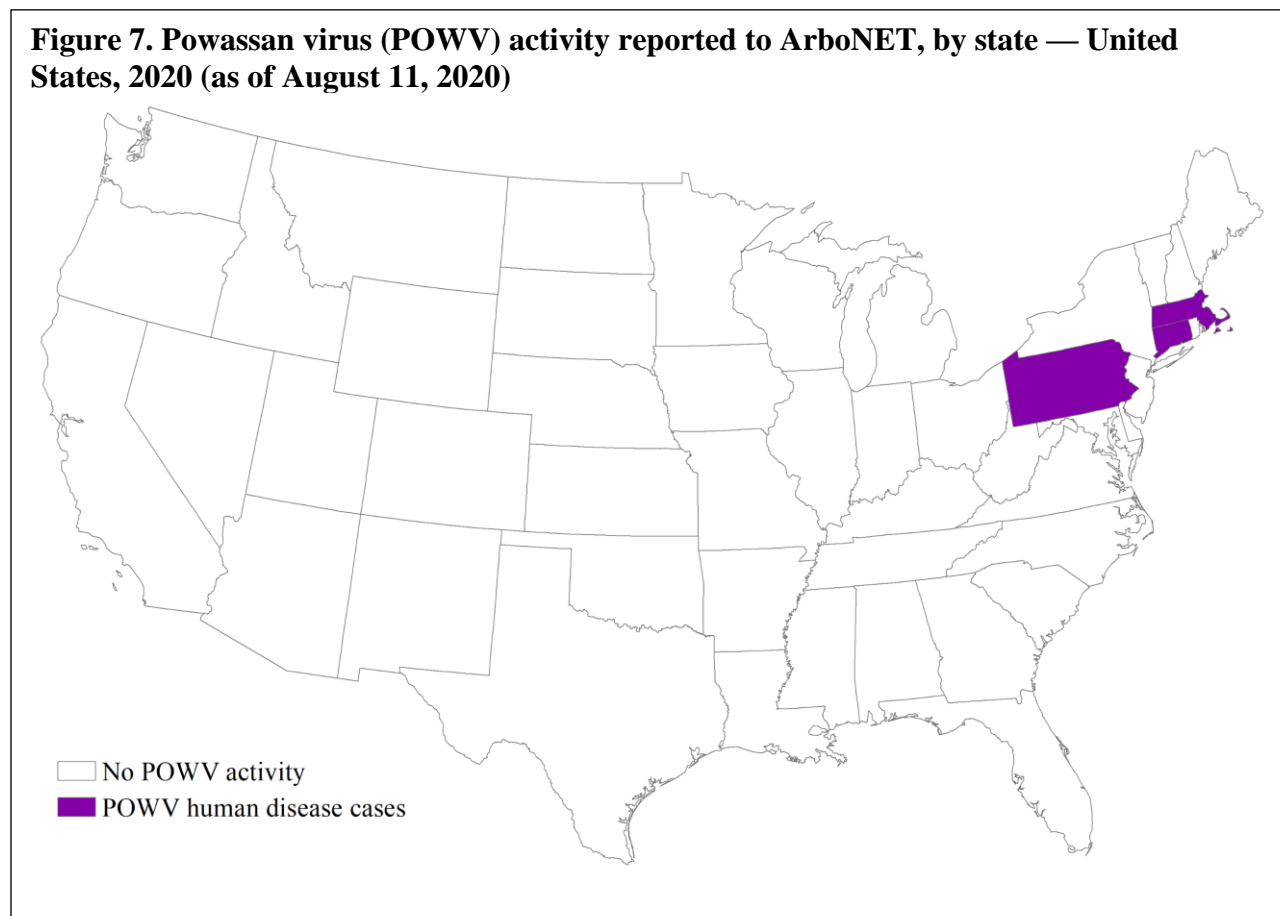


Table 5. Powassan virus human disease cases reported to ArboNET, United States, 2020

State	Neuroinvasive disease cases	Non-neuroinvasive disease cases	Total cases*	Deaths
Connecticut	1	0	1	0
Massachusetts	1	0	1	0
Pennsylvania	2	0	2	0
Totals	4	0	4	0

*Includes confirmed and probable cases

St. Louis encephalitis virus (SLEV) activity in 2020

As of August 11th, two human cases of SLEV disease has been reported from Arizona [Figure 8 and Table 6]. To date, two states, California and Texas, have reported SLEV activity in non-human species to ArboNET for 2020.

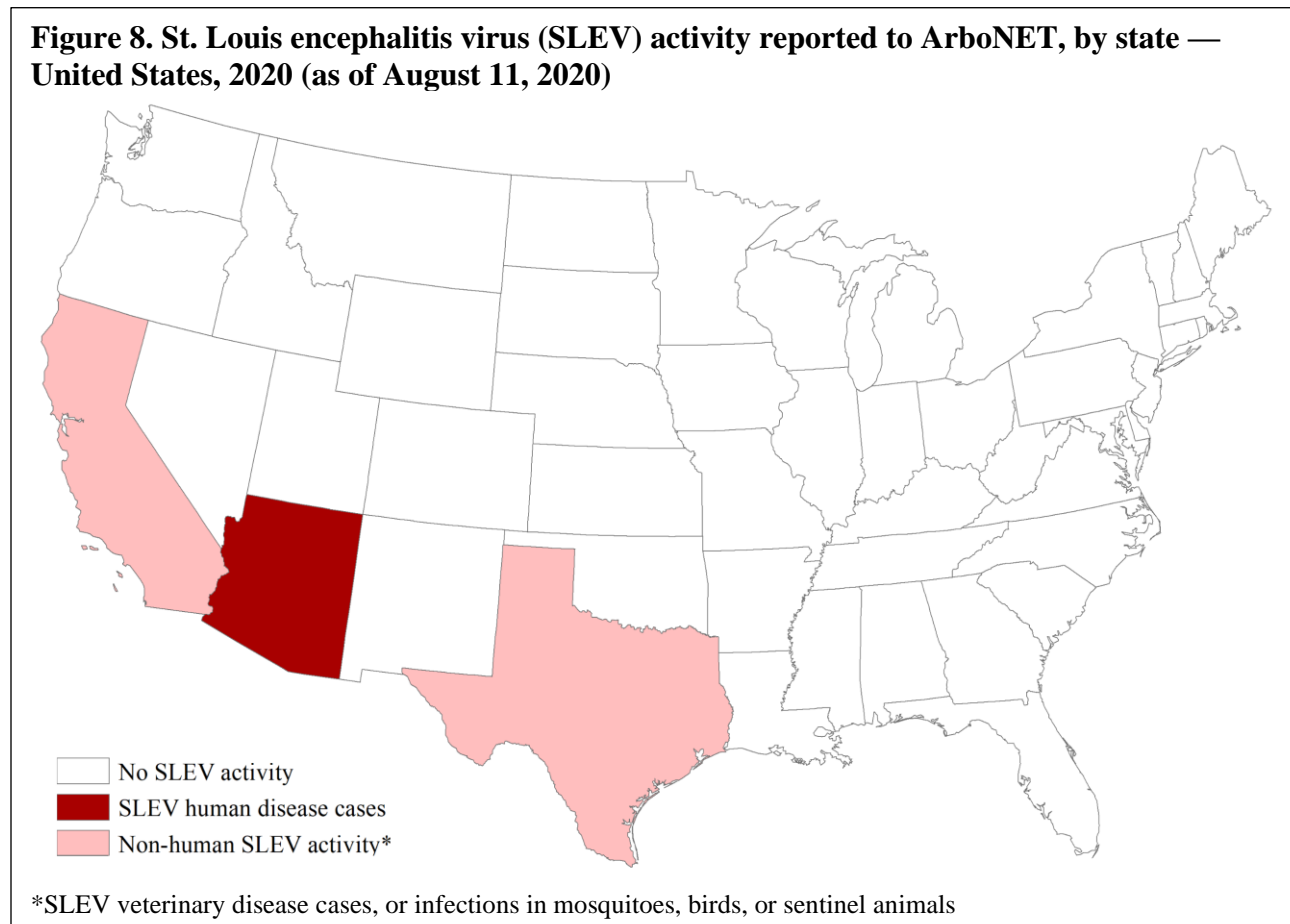


Table 6. St. Louis encephalitis human disease cases reported to ArboNET, United States, 2020

State	Neuroinvasive disease cases	Non-neuroinvasive disease cases	Total cases*	Deaths
Arizona	2	0	2	0
Totals	2	0	2	0

*Includes confirmed and probable cases.



About ArboNET

ArboNET is a national arboviral surveillance system managed by CDC and state health departments. In addition to human disease, ArboNET maintains data on arboviral infections among presumptive viremic blood donors (PVDs), veterinary disease cases, mosquitoes, dead birds, and sentinel animals. As with other national surveillance data, ArboNET data has several limitations that should be considered in analysis, interpretation, and reporting [**Box**].

Box: Limitations of ArboNET data

The following should be considered in the analysis, interpretation, and reporting of ArboNET data:

1. ArboNET is a passive surveillance system. It is dependent on clinicians considering the diagnosis of an arboviral disease and obtaining the appropriate diagnostic test, and reporting of laboratory-confirmed cases to public health authorities. Diagnosis and reporting are incomplete, and the incidence of arboviral diseases is underestimated.
2. Reported neuroinvasive disease cases are considered the most accurate indicator of arboviral activity in humans because of the substantial associated morbidity. In contrast, reported cases of nonneuroinvasive arboviral disease are more likely to be affected by disease awareness and healthcare-seeking behavior in different communities and by the availability and specificity of laboratory tests performed. Surveillance data for nonneuroinvasive disease should be interpreted with caution and generally should not be used to make comparisons between geographic areas or over time.

Additional resources

For additional arboviral disease information and data, please visit the following websites:

- CDC's Division of Vector-Borne Diseases:
<http://www.cdc.gov/ncezid/dvbd/>
- National Notifiable Diseases Surveillance System:
<http://wwwn.cdc.gov/nndss/conditions/arboviral-diseases-neuroinvasive-and-non-neuroinvasive/case-definition/2015/>
- CDC Disease Maps
https://wwwn.cdc.gov/arboNET/Maps/ADB_Diseases_Map/index.html
- AABB (American Association of Blood Banks):
www.aabb.org/programs/biovigilance/Pages/wnv.aspx