

# Arbovirus\* Activity, Including EEE and West Nile Virus: Weekly Summary, Michigan 2019

\*Arboviruses are viruses transmitted by mosquitoes or other insects

Updated: October 25, 2019

**17** 

Michigan counties with reported EEE activity

**46** 

Animals testing positive for EEE infection

**20** 

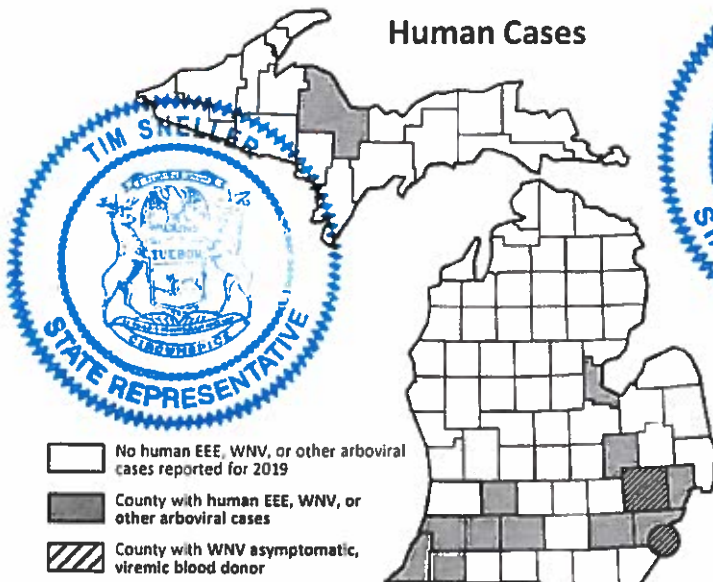
Human cases of EEE and other arboviruses reported

<b>2019 Michigan Arbovirus Surveillance</b> (click links below to see cases by county)	
<a href="#">Human Eastern Equine Encephalitis cases reported</a>	<b>10</b>
<a href="#">Animal Eastern Equine Encephalitis cases reported</a>	<b>46</b>
<a href="#">West Nile virus Positive Mosquito Pools</a>	<b>54</b>
Total Number of Mosquito Pools Tested	<b>1,532</b>
Total Number of Mosquitoes Tested	<b>31,606</b>
<a href="#">Human WNV cases</a>	<b>8</b>
Human California Group virus cases	<b>2</b>
<a href="#">WNV asymptomatic, viremic blood donor</a>	<b>5</b>
<a href="#">Equine/Other Animal WNV cases reported</a>	<b>1</b>
<a href="#">Avian WNV cases reported</a>	<b>19</b>

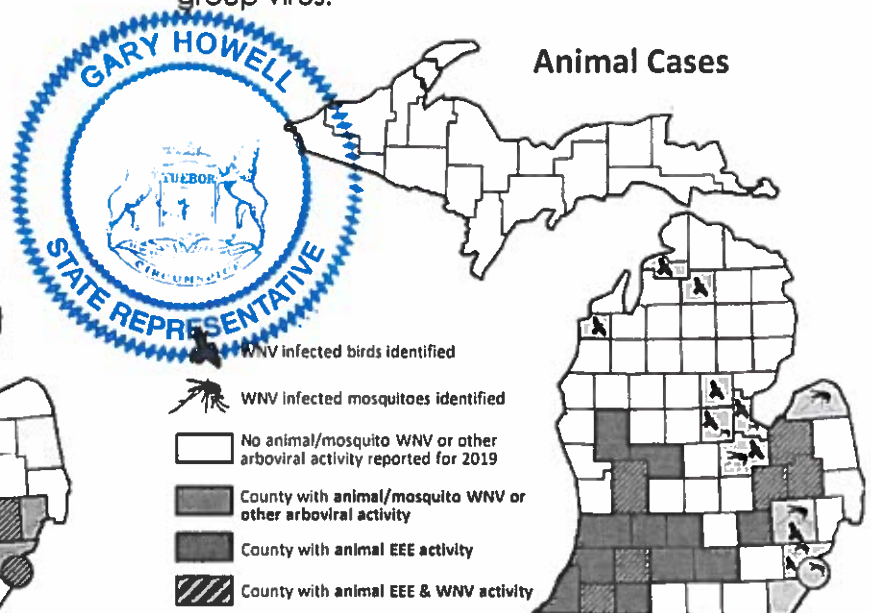
## Highlights

- This year, Eastern Equine encephalitis virus (EEE) infected 10 Michigan residents (1 Barry, 2 Berrien, 1 Calhoun, 2 Cass, 3 Kalamazoo, and 1 Van Buren) with 5 fatalities.
- The mosquitos that spread EEE were caught in traps set 10/1/2019 in southwest Michigan. **Trapping performed in Calhoun County post-aerial mosquito treatment found 0 EEE vector species. Additional mosquito trapping is ongoing.**
- EEE has also infected 46 animals (2 Allegan, 5 Barry, 1 Berrien, 3 Calhoun, 3 Cass, 1 Genesee, 1 Eaton, 5 Jackson, 9 Kalamazoo, 2 Kent, 1 Lapeer, 1 Livingston, 1 Montcalm, 1 Newaygo, 7 St. Joseph, 1 Tuscola and 2 Van Buren).
- West Nile virus (WNV) has sickened 8 Michigan residents (1 Bay, 1 City of Detroit, 1 Genesee, 1 Macomb, 1 Marquette, 1 Oakland, and 2 Wayne) and routine testing of the blood supply identified WNV in 5 Michigan blood donors.
- Additionally, 2 Michigan residents (1 Genesee and 1 Washtenaw) were infected with a California group virus.

Human Cases



Animal Cases



For more information

[www.michigan.gov/eee](http://www.michigan.gov/eee)



Michigan Department of Health & Human Services  
Bureau of Epidemiology & Population Health  
Emerging & Zoonotic Infectious Diseases (EZID) Section



# Preventing Mosquito Bites and Arboviruses: Tips for Michigan Residents

The most effective way to avoid arboviruses is to prevent mosquito bites. Be aware of the West Nile virus and other arbovirus activity in your area and take action to protect yourself and your family.



## *Use Insect Repellent*

Use Environmental Protection Agency (EPA)-registered insect repellents with one of the active ingredients below. When used as directed, EPA-registered insect repellents are proven safe and effective, even for pregnant and breastfeeding women.

- DEET
- Picaridin
- IR3535
- Oil of lemon eucalyptus (OLE)  
or para menthane-diol (PMD)
- 2-undecanone

Find the insect repellent that's right for you by using [EPA's search tool](#)



## *Tips for Babies & Children*

- Always follow instructions when applying insect repellent to children.
- Do not use insect repellent on babies younger than 2 months old.
- Do not apply insect repellent onto a child's hands, eyes, mouth, and cut or irritated skin.
  - Adults: Spray insect repellent onto your hands and then apply to a child's face.
- Do not use products containing oil of lemon eucalyptus (OLE) or para-menthane-diol (PMD) on children under 3 years old.



## *Take steps to control mosquitoes inside and outside your home*

- Use screens on windows and doors. Repair holes in screens to keep mosquitoes outside.
- Once a week, eliminate potential breeding areas for mosquitoes. Check inside and outside your home. Mosquitoes lay eggs on or near water:
  - Discard old tires, tin cans, ceramic pots or other containers that can hold water
  - Repair failed septic systems
  - Drill holes in the bottom of recycling containers left outdoors
  - Keep grass cut short and shrubbery trimmed
  - Clean clogged roof gutters, particularly if leaves tend to plug up the drains
  - Frequently replace the water in pet bowls
  - Flush ornamental fountains and birdbaths periodically; aerate ornamental pools, or stock them with predatory fish.

For Up-to-Date Information Visit Michigan's Emerging Diseases Website

[www.michigan.gov/westnile](http://www.michigan.gov/westnile)

or the Centers for Disease Control and Prevention Website

[www.cdc.gov/westnile](http://www.cdc.gov/westnile)