


# Year-End Summary, Michigan 2020

\*Arboviruses are viruses transmitted by mosquitoes or other insects

Updated: July 7, 2021

**74**   
Mosquito pools testing positive for West Nile virus infection

**41**   
Animals testing positive for Eastern Equine Encephalitis virus infection

**39**   
Human cases of West Nile virus, Eastern Equine Encephalitis, or other arboviruses reported

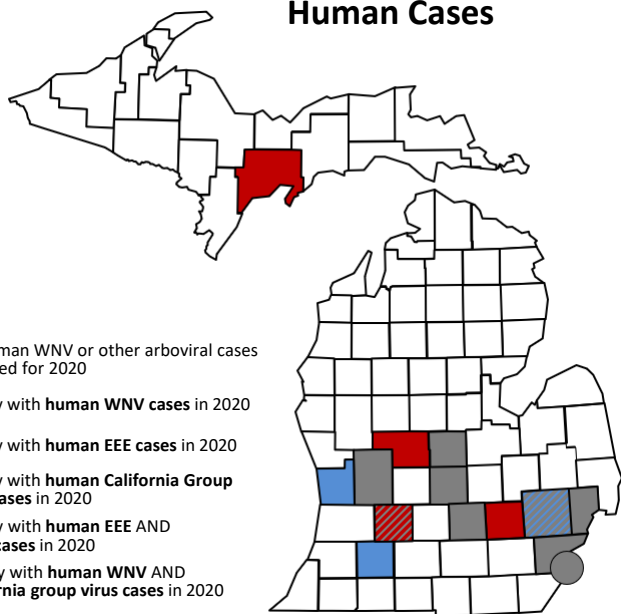
2020 Michigan Arbovirus Surveillance	
<i>(click links below to see map** of cases by county)</i>	
<a href="#">West Nile virus Positive Mosquito Pools</a>	<b>74</b>
Total Number of Mosquito Pools Tested	<b>1,937</b>
Total Number of Mosquitoes Tested	<b>15,969</b>
<a href="#">Human WNV cases</a>	<b>32</b>
Human California Group virus cases	<b>3</b>
<a href="#">WNV asymptomatic, viremic blood donor</a>	<b>2</b>
<a href="#">Equine/Other Animal WNV cases reported</a>	<b>0</b>
<a href="#">Avian WNV cases reported</a>	<b>10</b>
<a href="#">Human Eastern Equine Encephalitis cases reported</a>	<b>4</b>
Animal Eastern Equine Encephalitis cases reported	<b>41</b>

## Highlights

- In 2019, Eastern Equine encephalitis virus (EEE) infected four Michigan residents (Barry, Delta, Montcalm and Livingston counties), including two fatalities.
- Eastern equine encephalitis (EEE) was also reported in 41 animals across 19 counties. (1 Allegan, 1 Baraga, 1 Barry, 1 Calhoun, 5 Clare, 1 Gladwin, 3 Ionia, 1 Iron, 1 Isabella, 2 Jackson, 4 Kent, 2 Livingston, 1 Marquette, 1 Mecosta, 1 Menominee, 8 Montcalm, 2 Newaygo, 4 Oakland, and 1 Tuscola).
- Thirty-two human cases of West Nile Virus (WNV) were reported. (1 Barry, 2 Clinton, 1 Gratiot, 2 Ingham, 4 Kent, 2 Macomb, 8 Oakland, 7 Wayne, and 5 City of Detroit)
- WNV was reported in 10 birds (Bay, Delta, Dickinson, Lapeer, Oakland, Ogemaw, and Saginaw), and 74 mosquito pools (Arenac, Bay, Kent, Lapeer, Midland, Oakland, and Saginaw).
- Three human cases of Jamestown Canyon virus (a California Group virus) were reported from Kalamazoo, Oakland, and Ottawa counties.

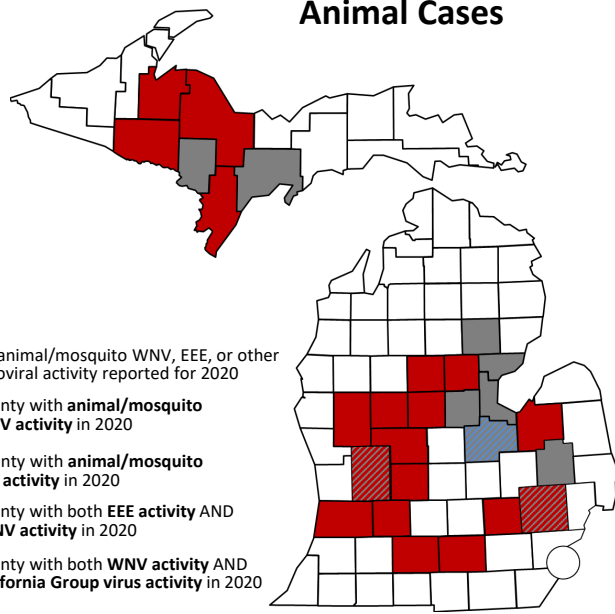
\*\*data in linked maps may lag behind this report by 1-2 business days.

## Human Cases



- No human WNV or other arboviral cases reported for 2020
- County with human WNV cases in 2020
- County with human EEE cases in 2020
- County with human California Group virus cases in 2020
- County with human EEE AND WNV cases in 2020
- County with human WNV AND California group virus cases in 2020

## Animal Cases



- No animal/mosquito WNV, EEE, or other arboviral activity reported for 2020
- County with animal/mosquito WNV activity in 2020
- County with animal/mosquito EEE activity in 2020
- County with both EEE activity AND WNV activity in 2020
- County with both WNV activity AND California Group virus activity in 2020

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)