

Weekly Summary, Michigan 2024

*Arboviruses are viruses transmitted by mosquitoes or other insects

Updated: December 6, 2024

167 

Mosquito pools testing positive for arbovirus infection

132 

Animals testing positive for arbovirus infection

36 

Human cases of West Nile virus or other arboviruses reported

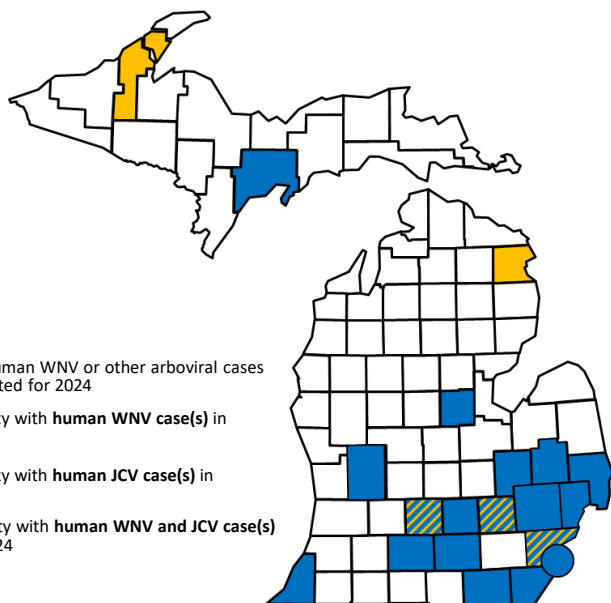
2024 Michigan Arbovirus Surveillance

Total Number of Mosquito Pools Tested	6,129
Total Number of Mosquitoes Tested	92,636
Positive Mosquito Pools	167
WNV-positive pools	150
EEEV-positive pools	3
JCV-positive pools	14
Animal Arbovirus cases	132
WNV-positive animals	114
EEEV-positive animals	18
Human Arbovirus cases	36
WNV human cases	31
JCV human cases	5

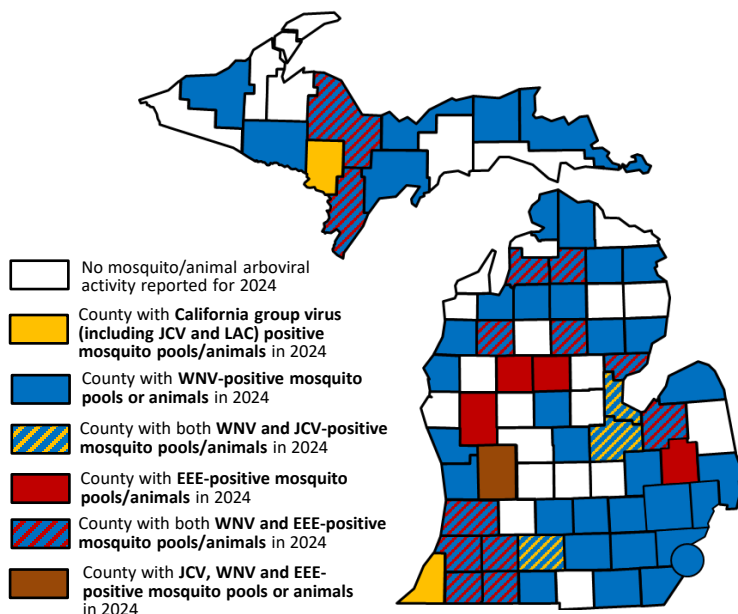
Highlights

- Thirty-one residents of Berrien, Calhoun, Delta, City of Detroit, Eaton, Genesee (3), Ingham, Jackson (3), Kent, Lapeer, Lenawee, Livingston, Macomb(6), Midland, Monroe, Oakland (4), St. Clair and Wayne (2) counties have been sickened by West Nile virus (WNV).
- Five residents from Alpena, Eaton, Houghton, Livingston and Wayne counties have tested positive for Jamestown Canyon Virus (JCV).
- Thirteen horses from Allegan, Cass, Clare, Kalamazoo, Lapeer, Menominee, Osceola (2), St. Joseph, Tuscola, Van Buren (2) and Wexford counties and five birds from Antrim, Marquette, Newaygo, Otsego, and Roscommon counties have tested positive for Eastern equine encephalitis virus (EEEV).
- Eight horses from Eaton (2), Kalamazoo, Kent, St. Joseph, Tuscola, Van Buren and Washtenaw counties and 106 birds from Alger, Allegan, Alpena, Antrim (3), Bay (6), Branch (3), Calhoun, Cass (2), Cheboygan, Chippewa, City of Detroit, Crawford, Delta (3), Eaton (4), Emmet, Genesee, Grand Traverse (5), Gratiot, Ingham, Iosco, Iron (2), Isabella, Jackson (3), Kalamazoo (3), Kalkaska (2), Kent (2), Lenawee, Livingston (2), Luce (3), Macomb (2), Manistee, Marquette (2), Mason, Menominee (4), Monroe, Montmorency, Muskegon (2), Oakland (9), Ogemaw, Ontonagon, Otsego (2), Ottawa, Roscommon (3), Saginaw (8), St. Clair, Tuscola, Van Buren, Washtenaw (4), Wayne and Wexford counties have tested positive for WNV.
- Three mosquito pools from Arenac, Cass and Kent counties have tested positive for EEEV.
- 150 mosquito pools from Arenac (2), Bay (79), Calhoun, Huron, Iosco, Jackson, Kent (27), Macomb (4), Oakland, Ottawa (2), Saginaw (12), St. Clair (12), Washtenaw (6) and Wayne counties have tested positive for WNV.
- Fourteen mosquito pools from Bay (3), Berrien (2), Calhoun, Dickinson, Kent and Saginaw (6) counties have tested positive for JCV.

Human Cases



Animal Cases



For more information

www.michigan.gov/westnile



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

or the Centers for Disease Control and Prevention Website

www.cdc.gov/west-nile-virus/