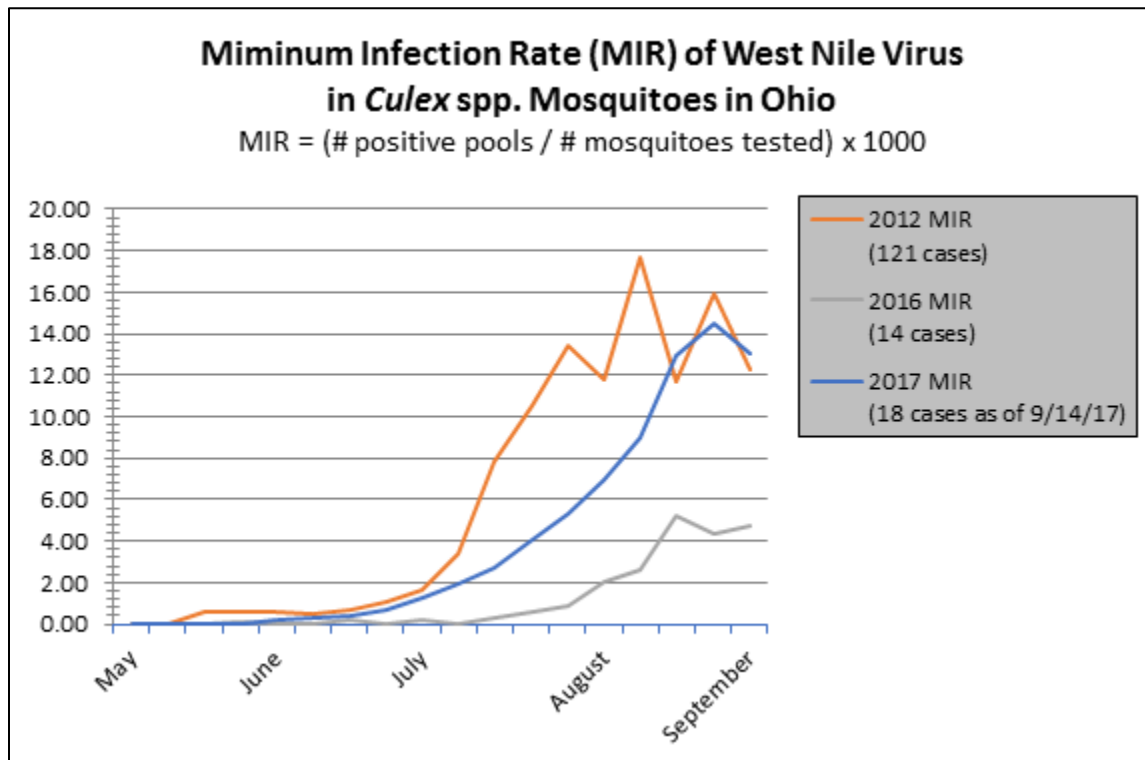


Ohio Arbovirus Surveillance Update September 14, 2017

Since the last update, we continue to see high rates of West Nile virus (WNV) infection in mosquitoes with many mosquito samples testing positive daily:



We are also seeing an increase in human WNV cases, currently 18 (see table below), and we've had new cases reported almost daily over the last week. We've also had 5 equine cases reported with onsets over the last 2-3 weeks. With arboviral disease cases increasing and virus activity in mosquitoes remaining high, it is important to continue control efforts as temperatures allow. As cooler nights make mosquito control more challenging, community mosquito prevention messaging is even more important and should continue until freezing weather brings an end to mosquito season. Messages should include the following points:

Avoid mosquito bites. It is important to prioritize personal protection to prevent mosquito bites.

- Wear EPA-registered mosquito repellents whenever mosquitoes are present and follow label instructions.
- Wear long, loose, light-colored clothing.
- Install or repair screens on windows and doors to keep mosquitoes outside.

Help reduce mosquito breeding around your home. Get rid of potential mosquito breeding sites to help prevent mosquito-borne diseases.

- Empty standing water from flowerpots, gutters, buckets, pool covers, pet water dishes, discarded tires and birdbaths.
- Consider using products containing *Bacillus thuringiensis israelensis* (Bti), available at many garden and home improvement stores, to control mosquito larvae in containers that are too large to empty. Follow the label instructions.

It is important to remember that most of our reported arbovirus cases in Ohio have onsets in September and October, so there are still several weeks to go where the risk of WNV and La Crosse virus infection remains high, and taking the steps above will help protect against these and other mosquito-borne diseases.

For information on prevention messaging, surveillance or for up-to-date mosquito-borne disease information, please see the ODH Zoonotic Disease Program (ZDP) mosquito website (<http://www.odh.ohio.gov/mosquitoes>) or contact ZDP at 614-752-1029, option 1.

Ohio Mosquito-borne Disease 2017 Numbers-At-A-Glance as of September 14, 2017:

West Nile virus		Notes
Mosquitoes tested	403,513	Collected in 59 counties, pooled into 14,277 samples
Ohio counties with WNV activity reported	45	Includes counties with WNV positive mosquitoes, equine WNV cases, human WNV cases and human WNV viremic asymptomatic blood donors
WNV positive mosquito samples	1,945	Ashland (12), Ashtabula (5), Athens (2), Butler (1), Clark (10), Columbiana (4), Coshocton (2), Crawford (6), Cuyahoga (20), Delaware (14), Fairfield (2), Franklin (588), Greene (20), Hamilton (41), Hancock (27), Henry (3), Hocking (14), Huron (1), Jackson (1), Knox (6), Lake (81), Licking (73), Lorain (79), Lucas (149), Madison (1), Mahoning (4), Medina (11), Meigs (13), Montgomery (54), Pickaway (20), Portage (181), Richland (50), Ross (12), Stark (37), Summit (348), Tuscarawas (16), Warren (1), Washington (3) and Wood (30) counties
WNV veterinary cases	5	5 equine cases in Ashtabula (1), Holmes (1), Tuscarawas (1) and Wayne (2) counties with onsets between 08/24/17-09/05/17
WNV asymptomatic viremic blood donors	7	4 females, 3 males ranging in age from 19-63 years (median 48 years) from Fairfield (1), Franklin (2), Hamilton (1), Holmes (1), Medina (1) and Stark (1) counties
WNV human cases	18	11 females, 7 males ranging in age from 35-77 years (median 56 years) from Butler (1), Clark (1), Clermont (2), Cuyahoga (2), Defiance (1), Franklin (1), Greene (1), Hamilton (2), Huron (1), Lake (1), Logan (1), Lucas (1), Stark (1), Summit (1) and Tuscarawas (1) counties
Other locally-acquired mosquito-borne disease cases		Notes
La Crosse/California serogroup virus human cases	11	5 females, 6 males ranging in age from 4-65 years (median 9 years) from Allen (1), Ashland (2), Delaware (1), Holmes (1), Knox (1), Medina (1), Muskingum (1), Preble (1), Ross (1) and Summit (1) counties
Eastern equine encephalitis virus veterinary cases	1	1 equine case, a 7 year-old gelding, in Ashtabula County with an onset of neurologic disease 07/25/17. The horse was euthanized.
Travel-associated mosquito-borne disease cases		Notes
Chikungunya virus human cases*	3	2 females, 1 male ranging in age from 16-59 years (median 37 years) with travel to India and Mexico
Dengue human cases	3	1 female, 2 males ranging in age from 17-60 years (median 27 years) with travel to Asian countries
Zika virus human cases*	4	2 females, 2 males ranging in age from 12-59 years (median 34.5 years) with travel to Caribbean islands

Travel-associated mosquito-borne disease cases		Notes
Malaria human cases	44	19 females, 25 males ranging in age from 1-77 years (median 28 years) with travel to African countries, Afghanistan and Guatemala
* Ohioans traveling to areas where local transmission is occurring should be aware of the ongoing situation and make every effort to avoid mosquito bites. Additional information can be found from the CDC (www.cdc.gov/chikungunya , www.cdc.gov/zika/geo/index.html) and the Pan American Health Organization (www.paho.org/chikungunya , www.paho.org/zika).		

Updated 09/14/17

Arbovirus Cases and Information from Neighboring States:

- Indiana: <http://www.in.gov/isdh/23592.htm>
- Illinois: <http://www.dph.illinois.gov/topics-services/diseases-and-conditions/west-nile-virus/surveillance>
- Michigan: http://www.michigan.gov/emergingdiseases/0,4579,7-186-25805_26531---,00.html
- Pennsylvania: <http://www.westnile.state.pa.us/surv.htm>
- West Virginia: <http://www.dhhr.wv.gov/oeps/disease/Zoonosis/Mosquito/Pages/default.aspx>