

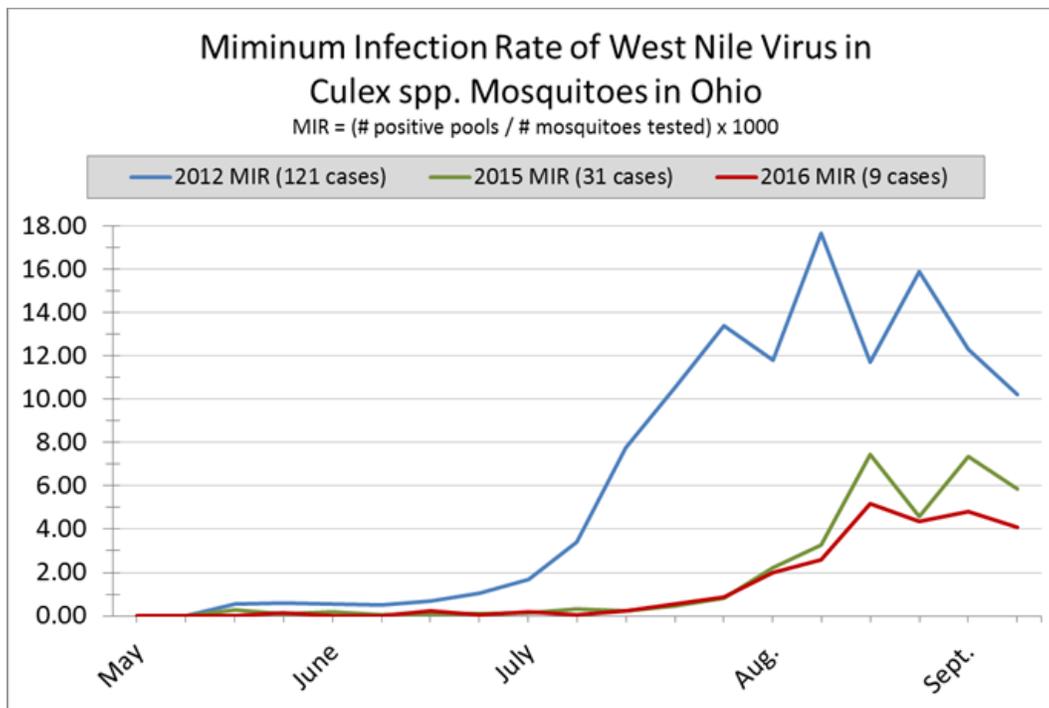
Ohio Arbovirus Surveillance Update September 27, 2016

Since the last update, ODH has reported an additional case of La Crosse encephalitis virus (LACV) and 5 additional cases of West Nile virus (WNV) (see information in table below). There are still several suspected cases under investigation.

WNV activity in mosquitoes has ended up being slightly lower than last year and infection rates are starting to decline (see chart in table below). However, we have had 129 new positive mosquito samples and an equine case reported since the last update. Therefore, WNV activity remains high enough to be of concern for the next few weeks before we have freezing weather.

Below is the latest update on arbovirus activity in Ohio:

| West Nile virus numbers at-a-glance*: | | Notes: |
|--|---------|---|
| Ohio counties with WNV activity reported | 31 | |
| Human cases | 9 | 8 males and 1 female, ages 4-84 years (median age 56 years) from Clermont (1), Cuyahoga (2), Franklin (1), Hamilton (1), Licking (1), Marion (2) and Medina counties |
| Human deaths | 1 | |
| Asymptomatic blood donors | 2 | Both male, ages 17-42 years (median 29.5 years) from Ross and Wayne counties |
| WNV veterinary cases | 1 | Equine from Tuscarawas County |
| Mosquitoes tested | 367,408 | Collected in 59 counties, pooled into 11,980 samples |
| WNV positive mosquito samples | 452 | Clermont (1), Cuyahoga (16), Defiance (4), Delaware (5), Franklin (216), Gallia (1), Guernsey (1), Hamilton (1), Hancock (5), Henry (1), Lake (41), Licking (29), Lorain (10), Lucas (25), Mercer (1), Montgomery (7), Noble (1), Pickaway (1), Portage (11), Putnam (1), Richland (1), Ross (1), Scioto (2), Stark (5), Summit (28), Tuscarawas (2), Union (2) and Washington (3) counties |



| Other Arboviruses' numbers at-a-glance*: | | Notes: |
|---|----|--|
| La Crosse virus human cases | 4 | 1 female and 3 males, ages 8-51 years (median 12 years) from Guernsey (1), Mahoning (1), Scioto (1) and Stark (1) counties |
| Jamestown Canyon virus human cases | 0 | |
| St. Louis encephalitis human cases | 0 | |
| Eastern equine encephalitis human cases | 0 | |
| Eastern equine encephalitis veterinary cases | 0 | |
| Travel-associated mosquito-borne disease cases*: | | Notes: |
| Chikungunya** virus human cases | 1 | Female, 8 years old with travel history to India |
| Dengue human cases | 6 | 5 females and 1 male, ages 31-60 years (median 47 years) with travel history to Brazil (1), Colombia (1), Dominican Republic (2) and India (2) |
| Zika** virus human cases | 52 | 33 females and 19 males, ages 12-78 (median 42 years) with travel history to Aruba (1), Brazil (1), Colombia (1), Dominican Republic (7), Guatemala (1), Guyana (1), Haiti (10), Honduras (2), Jamaica (4), Mexico (1), Nicaragua (4), Philippines (1), Puerto Rico (10), St. Lucia (5), St. Maarten (1), US Virgin Islands (1); 1 case did not travel but was sexually transmitted, partner had a travel history documented above |

| Travel-associated mosquito-borne disease cases* | | Notes: |
|---|----|---|
| Malaria human cases | 40 | 15 females and 25 males, ages 3-72 years (median 34 years) with travel history to African countries (36), Dominican Republic (1), Madagascar (1), Pakistan (1) and an unknown country |

* Updated September 26, 2016.

** 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).

Please continue to reinforce your community and public education efforts focusing on personal protection and source reduction o include these points:

Avoid mosquito bites. It is important to prioritize personal protection to protect against mosquito bites.

- o Wear EPA-registered mosquito repellents whenever mosquitoes are present and follow label instructions.
- o Wear long, loose, light-colored clothing.
- o 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.

- o Empty standing water from flowerpots, gutters, buckets, pool covers, pet water dishes, discarded tires and birdbaths.
- o 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.

Taking these steps will protect against mosquito-borne WNV, LACV and Zika virus.

For more 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 our program at (614) 752-1029, option 1.

Arbovirus Cases and Information from Neighboring States:

- Indiana: <http://www.in.gov/isdh/23592.htm>
- Illinois: <http://www.idph.state.il.us/envhealth/wnv.htm>
- 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>

Please contact the ODH Zoonotic Disease Program if you have any questions.