



BEAVER COUNTY 2025 MOSQUITO SEASON SUMMARY

MOSQUITO SURVEILLANCE AND TEST RESULTS

The Beaver County Vector Program follows an Integrated Vector Management plan. This incorporates educating the public, mosquito surveillance, and preventative practices coupled with physical, biological, and chemical control. This report contains Beaver County's 2025 season summary for mosquito surveillance, testing, and control.

Mosquito surveillance was conducted from April through September. Surveillance included adult and larval mosquitoes throughout the county. Sites were chosen in areas with standing water likely to be mosquito habitat, including artificial containers, sewage treatment facilities, floodwater areas, and other areas of concern. Mosquito trapping was prioritized in areas with a higher human population or nearby public parks. Sites were located throughout Beaver County municipalities. In 2025, Beaver County surveillance set 309 gravid traps and collected 28,248 mosquitoes, 39 BG Sentinel traps and collected 1,131 mosquitoes, and 215 larval samples which collected approximately 520 larvae/pupae.

The mosquito samples were tested for various diseases, including West Nile Virus, Jamestown Canyon Virus, La Crosse Virus, and St. Louis Encephalitis Virus. Testing for Jamestown Canyon Virus, La Crosse Virus, and St. Louis Encephalitis Virus all returned negative results. 2025 was a particularly viral year for West Nile Virus across the United States and in Pennsylvania. Beaver County reported 82 positive West Nile Virus mosquito samples this year. As of October, Pennsylvania reported 51 human cases of West Nile Virus, but Beaver County reported 0 human cases.

The Beaver County Vector Program mitigates the risk of mosquito-borne viruses by reducing larval and adult mosquito populations. Eliminating mosquito breeding habitat is the first step. The program encourages the public to reduce mosquito breeding by removing mosquito habitat, this includes removing any areas that hold stagnant water for prolonged periods of time. Mosquitoes require water to complete their life cycle, so by removing or dumping any standing water, it eliminates mosquito breeding potential.

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When applicable, the Vector program eliminates any breeding areas, but if that is not possible, then larval control is necessary. There were 260 larval control events conducted in Beaver County, this year. When larval efforts are not sufficient to control adult mosquito numbers, adult mosquito control is implemented. In 2025, the Vector program conducted 34 adult control events. Of the adult events, 22 backpack barrier treatments, 7 thermal fogs, and 5 ULV (Ultra Low Volume) truck sprays.

MOSQUITO COMPLAINTS AND EDUCATION

The Beaver County Conservation District Vector Program answers calls of concern for mosquitoes from citizens of Beaver County. The program responded to 7 mosquito complaints, this year. Staff investigated the areas of concern and helped homeowners to identify mosquito breeding areas and how to eliminate mosquito breeding locations. Outreach and education for the public on mosquitoes and ticks occurred throughout the year. We attended 8 educational events, school programs, and fairs in 2025. The Vector Program also hosted a tire collection event in May to remove a major mosquito habitat (tires) from citizens of Beaver County. We collected approximately 1,000 tires from participants. Thank you to all who participated (and all who volunteered to help with the tire event) and helped reduce mosquito populations in Beaver County!

REDUCING MOSQUITO HABITAT

The Vector Program encourages everyone to help reduce the risk to mosquito bites and mosquito-borne diseases.

We encourage all residents in the county to be aware of standing water on their properties that can lay stagnant for longer periods of time and can become a breeding area for mosquitoes. The less habitat available, the less mosquito breeding areas. By removing and dumping standing water and regularly cleaning birdbaths, outdoor pet water bowls, and other containers and keeping swimming pools clean and treated, it helps reduce potential mosquito breeding areas. If areas can not be dumped or removed, there are control products available to the public. Products such as mosquito dunks for larvae and barrier treatments for homeowners to reduce adult mosquitoes are available at local retailers. Follow the label instructions for proper use of product and maximum effectiveness.



For more information on the Beaver County Vector Program or questions concerning mosquitoes, please contact

Beaver County Conservation District

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