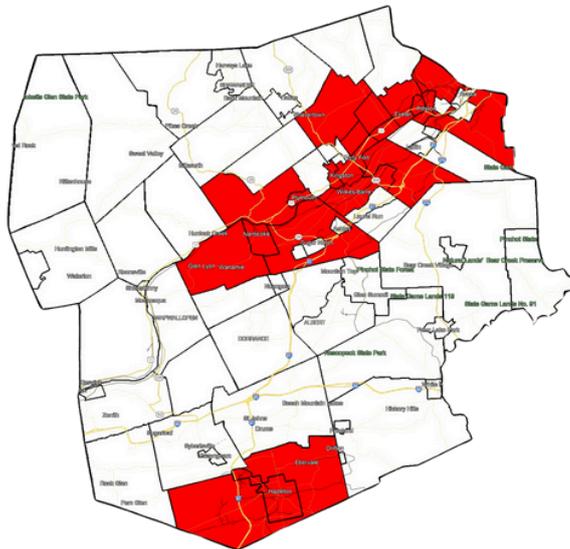


Luzerne Conservation District



2025 SEASON SUMMARY

- The 2025 season saw a similar, but slightly higher, incidence of West Nile Virus (WNV) likely brought about by another hot, dry summer
- 2025 saw a higher incidence of Jamestown Canyon Virus, with 6 positive traps compared to 4 in 2024
- Early, heavy rainfall in 2025 contributed to large floodwater mosquito populations from late May through August
- The chart below shows WNV prevalence in Luzerne County over the past decade

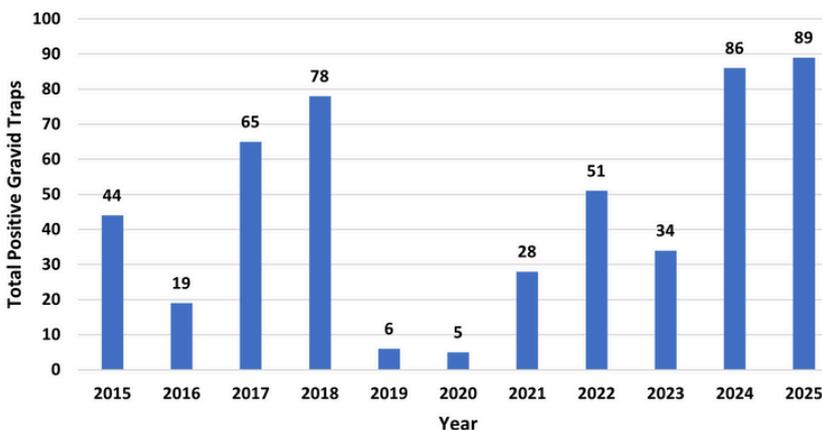


MUNICIPALITIES WITH WNV DETECTED IN 2025

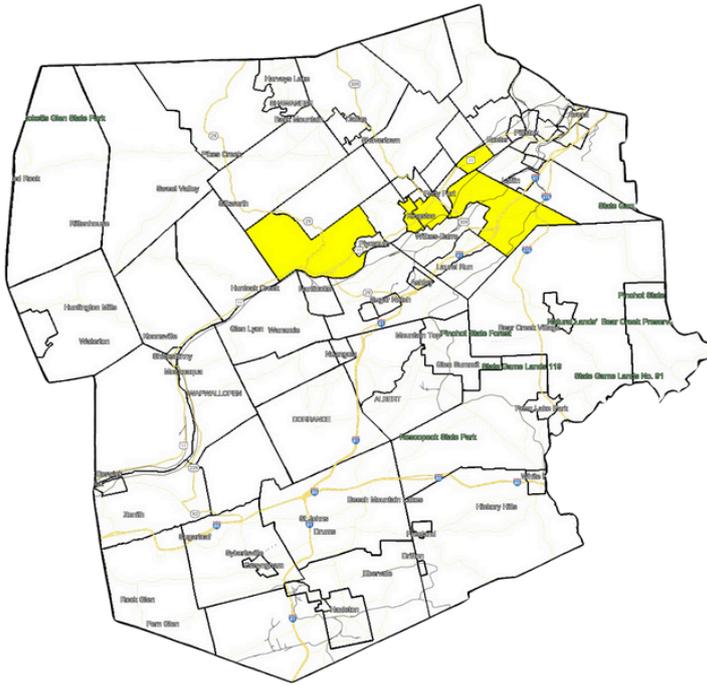
MUNICIPALITIES WITH WEST NILE VIRUS DETECTIONS IN 2025

Duryea Borough	Pittston City
Edwardsville Borough	Pittston Township
Exeter Borough	Plains Township
Forty Fort Borough	Plymouth Borough
Hanover Township	Plymouth Township
Hazle Township	Swoyersville Borough
Hazleton City	West Hazleton Borough
Kingston Borough	West Pittston Borough
Kingston Township	West Wyoming Borough
Nanticoke City	Wilkes-Barre City
Newport Township	Wyoming Borough

Total WNV Positive DEP Gravid Traps Annually in Luzerne County, PA



www.luzerneecd.org | 570-674-7991



MUNICIPALITIES WITH JCV DETECTED IN 2025

MUNICIPALITIES WITH JAMESTOWN CANYON VIRUS (JCV) DETECTIONS IN 2025

Edinboro Borough
Kingston Borough
Plains Township
Plymouth Township
Wyoming Borough

2025 SEASON TOTALS

Total Adult Mosquitoes Caught	~81,000
Municipalities Sampled	52
Total Traps Set	692
Larval Samples Collected	360
Sites surveilled	201
Total Complaints	175+
Total Control Operations	201
Unique Species Collected	27



Season Species Highlight: *Culiseta melanura* (Black-tailed mosquito)

In response to Eastern Equine Encephalitis (EEE) detection in a wild turkey late last year, MDC staff increased surveillance of *Culiseta melanura* (a mosquito species that plays an important role in the transmission of EEE) in 2025. *Culiseta melanura* larvae are found in tree crypts in acidic bogs, a very different larval habitat from previous surveillance efforts by the county. MDC staff spent significant time this year mapping out acidic bogs and peatlands in an attempt to find this cryptic larvae and trap adults in remote State Game Land areas. Through a lot of trial and error, MDC staff were able to catch both larvae and adults of the species late in the season, leaving our program poised to better respond to future EEE detections in the county if they occur.

Visit DEP's Vector Management page for more information and season updates!

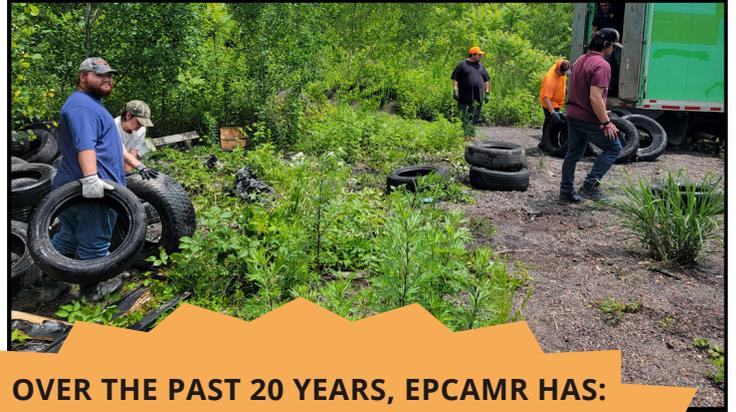
<https://www.pa.gov/agencies/dep/programs-and-services/integration/vector-management>

www.luzernecd.org | 570-674-7991

PARTNER HIGHLIGHT

BACKGROUND

Luzerne County has historically been a hotspot for illegal tire and trash dumping, creating unsightly scenes along our roadsides, our state forests, state game lands, municipal parks, and private property. Not only is this illegally dumped garbage a visible eyesore, it can also negatively impact wildlife, leach chemicals into our streams and water resources, and serve as major breeding grounds for disease carrying mosquitos.



OVER THE PAST 20 YEARS, EPCAMR HAS:

- Helped organize 79 Cleanup Events (2005-2025)
- Removed 7,705 tires
- Removed 356,722 lbs (~178.36 tons) of trash
- Engaged 1,393 volunteers
- Recorded 161 volunteer hours

visit www.epcamr.org to volunteer!

Top Right: Luzerne Conservation District and EPCAMR team up for tire cleanup in Ashley

Below: EPCAMR with tires removed from Sugar Notch Run site in Hanover Township

PARTNER HIGHLIGHT: EASTERN PA COALITION FOR ABANDONED MINE RECLAMATION (EPCAMR)

The Eastern PA Coalition for Abandoned Mine Reclamation (EPCAMR), a local non-profit, has been a leader in spearheading tire/trash cleanups in Luzerne County and beyond for decades. Over the years, EPCAMR has orchestrated dozens of cleanup events, bringing together numerous community volunteers and agency/organization partners.

The Luzerne Conservation District has partnered with EPCAMR on many of these cleanups, including a large-scale event sponsored by the Wyoming Valley Sanitary Authority (WVSA) last year, where 1,901 tires were removed from along Sugar Notch Run in a section of the Pinchot State Forest! The District commends EPCAMR's environmental stewardship in helping clean up both legacy and new illegal dumpsites, which has an added benefit in helping our MDC program's goal of reducing human exposure to mosquito-borne diseases.



Please let LCD/EPCAMR know about any dumping sites in your municipality!

MOSQUITO TEAM MEMBERS

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