

2024 Philadelphia West Nile Virus Activity Report

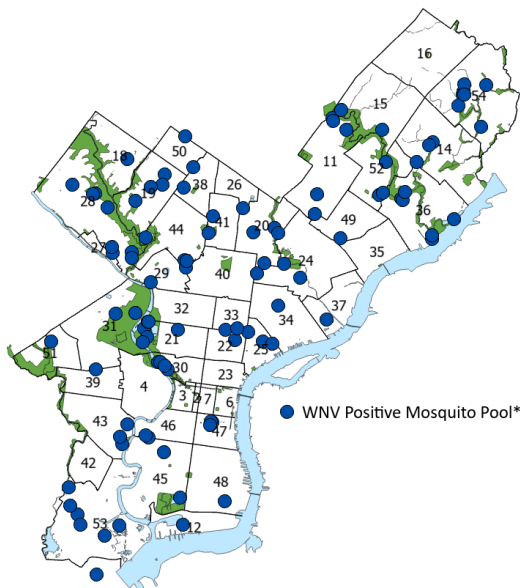
October 3, 2024

The Philadelphia Department of Public Health (PDPH) has identified eight neuroinvasive West Nile virus (WNV) infections in Philadelphia for the 2024 season. Three asymptomatic presumptive viremic blood donors were also identified.

The WNV pool positivity in 2024 is higher than the year-to-date historic median rate from 2001-2023 (41% vs 8%) and similar to rates observed in 2018 and 2022 (40%-44%), peak WNV activity seasons in Philadelphia. Increased risk for human infection will continue in Philadelphia until the first hard frost occurs.

From May through October, PDPH, in collaboration with the PA Department of Environmental Protection, conducts mosquito management activities throughout Philadelphia, which entails surveillance and identification of mosquito pools, testing pools for WNV, and control activities (eliminating breeding sites, larviciding catch basins, ground spraying, etc.). Since May 2024, 124 locations in Philadelphia were treated to control larval mosquito populations and 48 locations to control adult mosquito populations.

West Nile Virus Mosquito and Human Case Surveillance, Philadelphia PA, Morbidity Week 38 and Cumulative 2024 Season Update



*63 locations had 2-22 mosquito pools test positive

| | Week 38 (9/15-9/21) | 2024 Season (5/1-9/21) |
|------------------------------------|------------------------|---------------------------|
| Mosquito Pools Tested ^A | 51 | 1032 |
| WNV Positive Pools | 5 | 427 |
| Human WNV Cases | 0 | 8 |
| Neuroinvasive WNV | 0 | 8 |
| WNV Fever | 0 | 0 |
| Human WNV Deaths | 0 | 0 |
| Presumptive Viremic Donors | 0 | 3 |

^A1032 mosquito pools at 134 different mosquito trapping sites
State and National WNV Activity Reports

- [Pennsylvania Department of Health](#)
- [Centers for Disease Control and Prevention](#)

WNV Testing and Reporting Requirements for Human Surveillance in Philadelphia:

- Collect serum (3–8 days after onset) and CSF for patients with unexplained encephalitis or meningitis. Absence of detectable antibodies in serum within 8 days does not exclude possible WNV.
- Report suspected and confirmed WNV infections and encephalitis cases to PDPH by telephone at 215-685-6741 (215-686-4514 after hours) or fax at 215-238-6947.

Advise your patients to:

- Use repellent with DEET (≥20% to also prevent tick bites), Picaridin, or oil of lemon eucalyptus when outdoors.
- Regularly check and remove standing water outside their home (e.g., unused pools, tires).
- Keep well-fitted screens on windows and doors.
- Report mosquito problems and dead bird sightings to the PDPH Vector Control Program's Mosquito Complaint hotline at 215-685-9000.