



2023 Arboviral Seasonal Summary for Pennsylvania

West Nile virus

- 22 total human WNV cases from 12 counties*
- 15 M/7 F; avg age 63 yo (range 35 to 84 yo)
- 18 neuroinvasive cases/4 febrile cases
- 4 deaths from Philadelphia, Lackawanna, Allegheny, and Lehigh
- Philadelphia had the most cases with 6 (5 Confirmed and 1 Probable)
- 4 presumed viremic donors from Philadelphia (2) and Montgomery (1), York (1)
- 11 Equine cases were reported (Allegheny, Chester, Crawford, Juniata, Lycoming, Montgomery, and Northumberland Counties)
- 2,583 positive samples were detected from 50 counties. York County reported the most with 288.

Jamestown Canyon virus

- 38 positive samples were detected from 10 counties. Luzerne reported the most with 18.

Other locally transmitted arboviruses in Pennsylvania

- 2 Powassan cases

Travel related arboviruses in Pennsylvania

- 34 Dengue cases
- 5 Chikungunya cases

*human illness statistics are preliminary

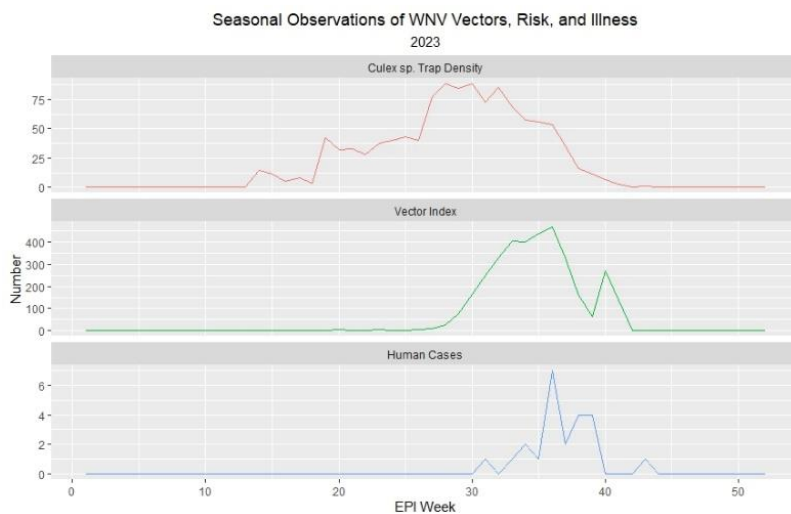


Figure 1. A representation of the 2023 West Nile Virus Season by Epidemiological (EPI) Week. The top graph represents trap density of *Culex restuans* and *Culex pipiens* collected in gravid traps throughout the surveillance season. Adult surveillance efforts began in May (EPI Week 18) and concluded in October (EPI Week 43). The middle graph represents the statewide vector index, a quantitative method that calculates risk of human illness. The bottom graph represents human cases reported by the Department of Health by onset week.

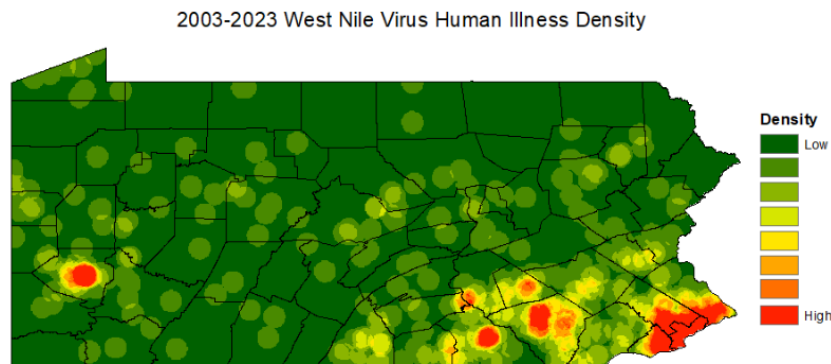


Figure 2. Historic West Nile virus human illness density. Map was constructed using ArcMap, point density, 0.0.30 radius, bilinear interpolation, and equal intervals. The radius was increased as to not give away any sensitive information.

2023 Arboviral Statistics by County

County	WNV Mosquito #POS	Mosquito Rank	WNV Bird #POS	WNV Equine	WNV Human	JCV Mosquito #POS
Adams	43	16	0	0	0	0
Allegheny	142	7	1	1	1	0
Armstrong	0	30	0	0	0	4
Beaver	37	18	0	0	0	0
Bedford	0	34	0	0	0	0
Berks	78	10	0	0	0	0
Blair	4	29	1	0	0	0
Bradford	0	34	0	0	0	0
Bucks	242	3	1	0	1	2
Butler	3	31	0	0	0	0
Cambria	13	24	0	0	0	0
Cameron	0	34	0	0	0	0
Carbon	1	33	0	0	0	0
Centre	4	28	2	0	1	0
Chester	135	8	1	2	0	0
Clarion	0	34	0	0	0	0
Clearfield	1	33	0	0	0	0
Clinton	5	29	0	0	0	0
Columbia	6	27	0	0	0	2
Crawford	2	28	1	1	0	3
Cumberland	174	5	2	0	0	0
Dauphin	57	14	0	0	0	0
Delaware	172	6	0	0	3	0
Elk	0	34	0	0	0	0
Erie	13	23	0	0	0	2
Fayette	12	25	0	0	1	0
Forest	0	34	0	0	0	0
Franklin	38	17	0	0	0	0
Fulton	5	29	0	0	0	0
Greene	5	29	0	0	0	0
Huntingdon	3	30	1	0	0	0
Indiana	3	30	1	0	0	0
Jefferson	0	34	0	0	0	0

Juniata	11	25	0	3	0	1
Lackawanna	20	19	0	0	1	3
Lancaster	61	13	0	0	0	0
Lawrence	16	22	0	0	0	0
Lebanon	53	15	0	0	0	0
Lehigh	254	2	0	0	1	0
Luzerne	35	15	0	0	0	18
Lycoming	76	11	1	1	0	0
McKean	0	34	0	0	0	0
Mercer	14	23	1	0	0	0
Mifflin	1	32	1	0	0	0
Monroe	15	23	0	0	0	0
Montgomery	92	9	0	1	3	0
Montour	3	31	0	0	0	0
Northampton	70	12	0	0	1	0
Northumberland	16	21	0	2	2	2
Perry	3	31	0	0	0	0
Philadelphia	242	4	0	0	6	0
Pike	9	26	0	0	0	0
Potter	0	34	0	0	0	0
Schuylkill	19	20	0	0	0	0
Snyder	7	27	0	0	0	1
Somerset	0	34	0	0	0	0
Sullivan	0	34	0	0	0	0
Susquehanna	0	34	0	0	0	0
Tioga	0	34	0	0	0	0
Union	13	24	0	0	0	0
Venango	0	34	0	0	0	0
Warren	1	33	0	0	0	0
Washington	2	32	0	0	0	0
Wayne	0	34	0	0	0	0
Westmoreland	12	25	0	0	0	0
Wyoming	0	34	0	0	0	0
York	286	1	2	0	1	0
Total	2529		16	11	22	38