



2022 Arboviral Seasonal Summary for Pennsylvania

West Nile virus

- 34 total human WNV cases from 12 counties*
- 15 M/19 F; avg age 62 yo (range 16 to 84 yo)
- 25 neuroinvasive cases/9 febrile cases
- 3 deaths from Franklin, Lancaster, and Philadelphia counties
- Philadelphia had the most cases with 11
- 6 presumed viremic donors (PVD) from 6 counties (Allegheny County had a confirmed case that was also a PVD)
- 3 Equine cases were reported (Chester, Lancaster and Mifflin Counties)
- 2,817 positive samples were detected from 50 counties. York County reported the most at 533.
- Graphs below represent 2022 vector populations, risk and illness.

*human illness statistics are preliminary

Seasonal Observations of the 2022 WNV Vectors, Risk, and Illness

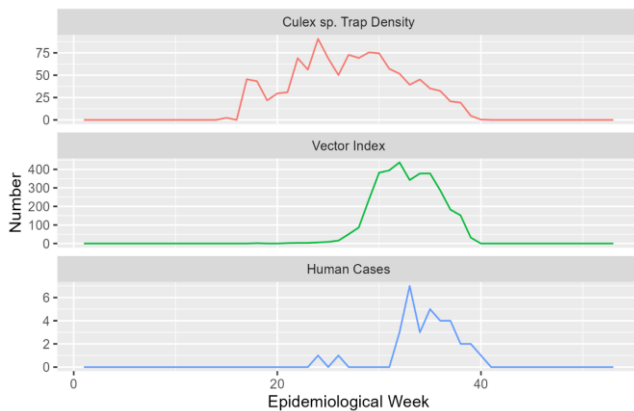


Figure 1. A representation of the 2022 West Nile Virus Season by Epidemiological (EPI) Week. The top graph represents trap density of *Culex restuans* and *Culex pipiens* collected in gravid traps throughout the surveillance season. Adult surveillance efforts began in May (EPI Week 18) and concluded in October (EPI Week 41). 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.

Travel related arboviruses in Pennsylvania

- 19 Dengue cases
- 2 Chikungunya cases

Combined 2003 - 2022 Point Density Map of WNV Human Illness

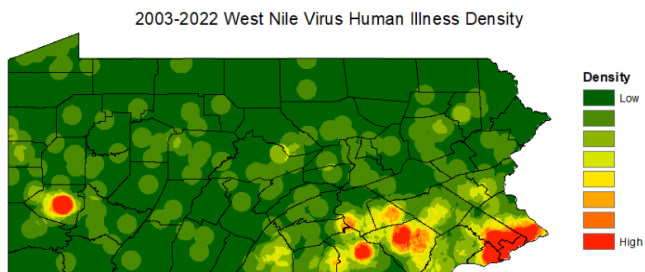


Figure 2. Historic west nile virus human illness density. Map was constructed using ArcMap, Point Density, 0.0.30 radius, bilinear interpolation, and equal intervals. The radius was increased as to not give away any sensitive information.

2022 Arboviral Statistics by County

COUNTY	MOSQUITO #POS	MOSQUITO RANK	BIRD #POS	EQUINE	HUMAN
Adams	74	14	0	0	0
Allegheny	137	8	0	0	3
Armstrong	0	32	0	0	0
Beaver	17	20	1	0	0
Bedford	2	30	0	0	0
Berks	153	7	0	0	1
Blair	5	27	0	0	0
Bradford	0	32	0	0	0
Bucks	167	5	0	0	2
Butler	0	32	0	0	0
Cambria	4	28	0	0	0
Cameron	0	32	0	0	0
Carbon	0	32	0	0	0
Centre	5	27	0	0	0
Chester	171	4	0	1	3
Clarion	0	32	0	0	0
Clearfield	1	31	1	0	0
Clinton	0	32	0	0	0
Columbia	5	27	0	0	0
Crawford	1	31	0	0	0
Cumberland	121	9	0	0	0
Dauphin	81	13	0	0	1
Delaware	105	10	0	0	2
Elk	0	32	0	0	0
Erie	9	23	0	0	0
Fayette	7	25	0	0	0
Forest	0	32	0	0	0
Franklin	86	12	0	0	2
Fulton	2	30	0	0	0
Greene	7	25	0	0	0
Huntingdon	3	29	0	0	0
Indiana	9	23	0	0	0
Jefferson	1	31	0	0	0
Juniata	5	27	0	0	0
Lackawanna	24	18	0	0	0
Lancaster	160	6	0	1	3
Lawrence	4	28	0	0	0
Lebanon	186	3	2	0	0
Lehigh	63	15	0	0	0
Luzerne	54	16	0	0	0

Lycoming	10	22	0	0	0
McKean	0	32	0	0	0
Mercer	4	28	0	0	0
Mifflin	0	32	0	1	0
Monroe	12	21	0	0	0
Montgomery	89	11	0	0	4
Montour	1	31	0	0	0
Northampton	41	17	0	0	1
Northumberland	3	29	0	0	0
Perry	8	24	0	0	0
Philadelphia	391	2	0	0	11
Pike	2	30	0	0	0
Potter	0	32	0	0	0
Schuylkill	19	19	0	0	0
Snyder	3	29	1	0	0
Somerset	1	31	0	0	1
Sullivan	0	32	0	0	0
Susquehanna	0	32	0	0	0
Tioga	2	30	0	0	0
Union	12	21	0	0	0
Venango	0	32	0	0	0
Warren	0	32	0	0	0
Washington	6	26	0	0	0
Wayne	0	32	0	0	0
Westmoreland	10	22	0	0	0
Wyoming	1	31	0	0	0
York	533	1	1	0	0
Total	2817		6	3	34

