



DELAWARE COUNTY HEALTH DEPARTMENT

BOH Environmental Health Update

2025 MDC Program Overview and Highlights

Delaware County 2025

- Larval Surveillance
- Adult Surveillance
- Complaint Calls
- WNV Positive Samples

1,146 Larval Mosquito
Samples

12,846 Adult Mosquito
Samples

1081 Total Ticks Collected

68 adult ticks

866 larval ticks

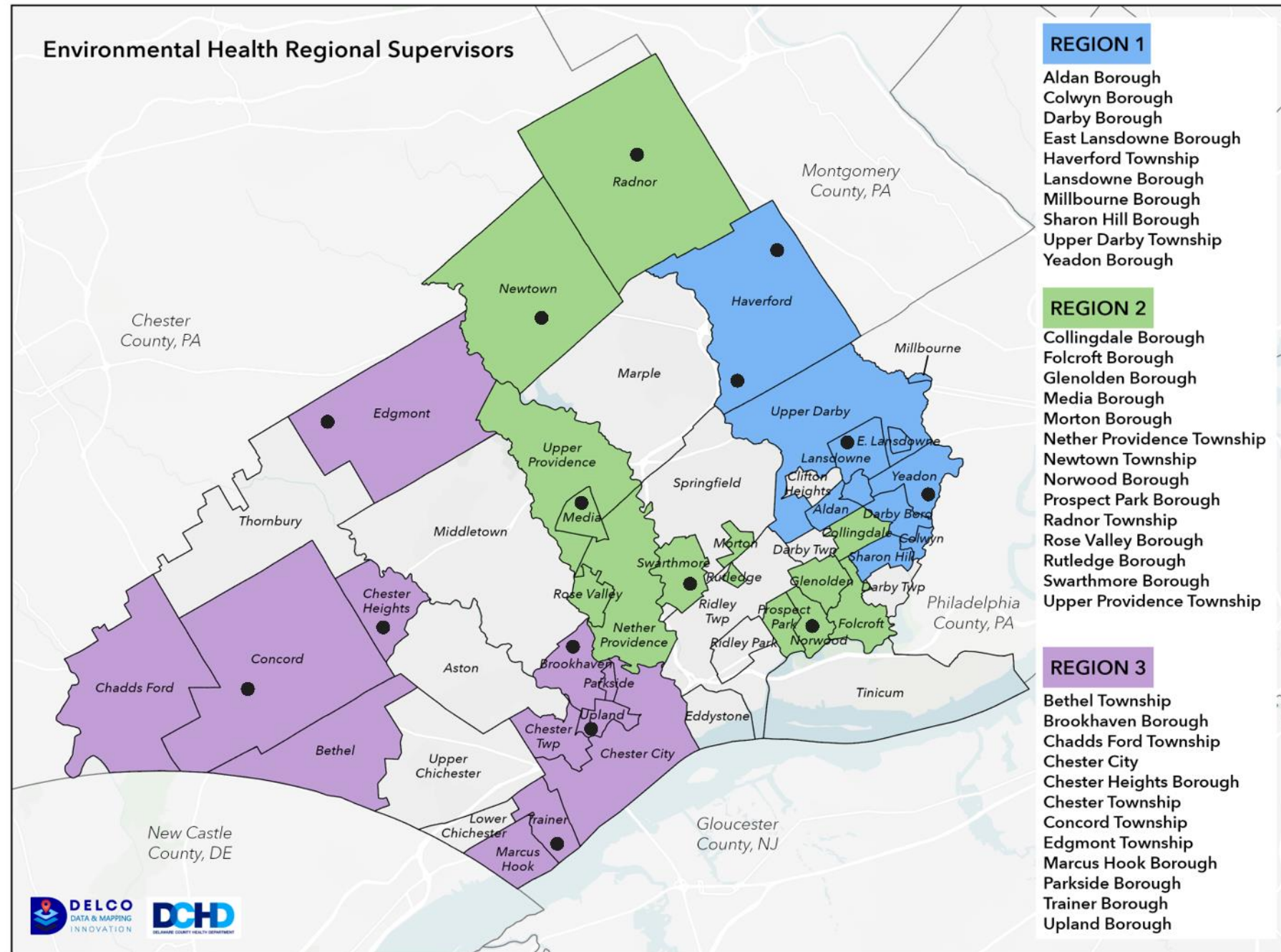
147 nymphal ticks

37 Mosquito Complaint
Calls Serviced

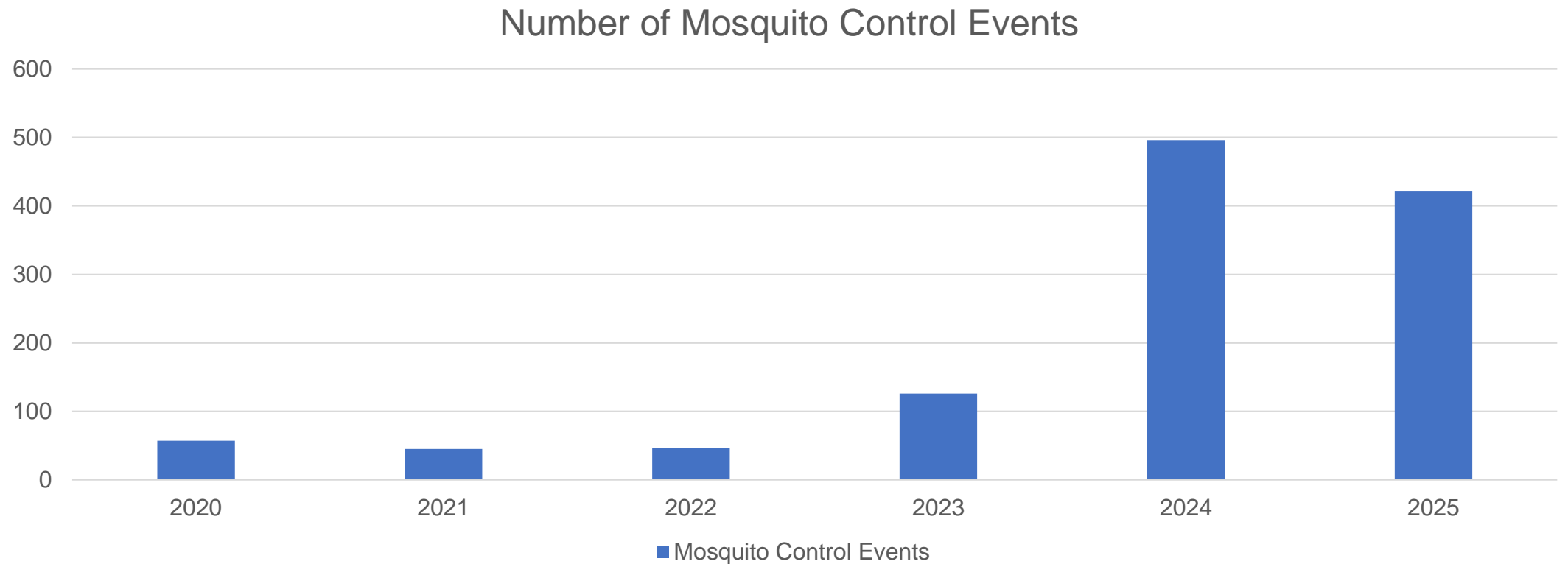
57 WNV Positive Samples

- Brookhaven Borough (11)
- Lansdowne Borough (9)
- Haverford Township (7)
- Radnor Township (5)

EXPANSION OF SERVICE AREA



Number of Mosquito Control Events per Year



Proportion of Adulticide Control Events

- 2020: 1/57
 - 2021: 2/45
 - 2022: 3/46
 - 2023: 5/125
 - 2024: 3/496
 - 2025: 2/421
- 2020 1.7% of all control events were adulticide truck mounted sprays
 - 2021 4.4% of all control events were adulticide truck mounted sprays
 - 2022 6.5% of all control events were adulticide truck mounted sprays
 - 2023 4% of all control events were adulticide truck mounted sprays
 - 2024 0.6% of all control events were adulticide truck mounted sprays
 - 2025 0.4% of all control events were adulticide truck mounted sprays

Number of Positive Mosquito and Tick Samples by Year

Positive Mosquito Samples

- 2020 – 70
- 2021 – 149
- 2022 – 43
- 2023 – 79
- 2024 – 70
- 2025 – 57

Positive Tick Samples

- 2020: 75/383
- 2021: 18/346
- 2022: 54/403
- 2023: 47/6086
- 2024: 49/2318
- 2025: 4/168*

Tick Surveillance and Historic Data 2020 - 2025

	Blacklegged Tick	American Dog Tick	Lone Star Tick	Longhorn Tick	Rabbit Tick
Chester Heights	25	22	0	534	0
Ridley Creek	178	5	1	1407	1
Newlin Grist	37	1	0	640	0
Glen Providence	124	0	0	1	0
Rose Tree	20	6	0	10	0
Pennsy	33	56	36	315	0
Haverford Reserve	0	0	0	63	3
White Horse STP	0	0	0	8	1
Clayton Park	1	1	0	0	0
Smedley Park	276	28	0	2191	0
Gillespie Park	68	1	0	0	0

Mosquito and Tick-Borne Pathogens Observed in Delaware County

Mosquito Borne

- West Nile Virus – culex pipiens, culex restuans, culex salinarius, culex erraticus

No other Mosquito-Borne pathogen has been observed in Delaware County

Tick Borne

- Borrelia burgdorferi (Lyme Disease) – Blacklegged Tick
- Anaplasma phagocytophilum (Anaplasmosis) – Blacklegged Tick
- Babesia microti (Babesiosis) – Blacklegged Tick
- Borrelia miyamotoi (Hard Tick Relapsing Fever) – Blacklegged Tick

Pathogens the State Lab Tests For

Mosquito Borne Disease

- Cache Valley Virus
- Eastern Equine Encephalitis Virus
- Jamestown Canyon Virus
- La Crosse Virus
- Potosi Virus
- St. Louis Encephalitis Virus
- West Nile Virus
- Zika Virus

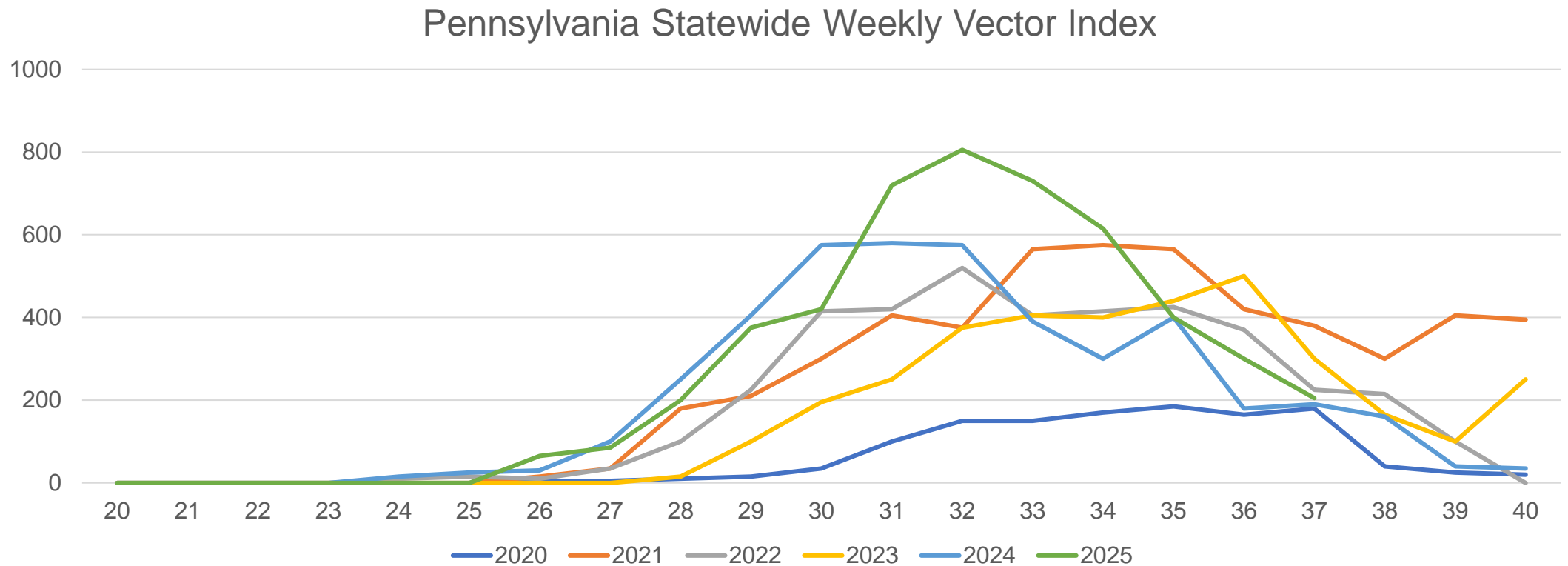
Tick Borne Disease

- Anaplasma phagocytophilum (Anaplasmosis)
- Babesia microti (Babesiosis)
- Borrelia burgdorferi (Lyme Disease)
- Borrelia mayonii (Lyme Disease)
- Borrelia miyamotoi (Hard Tick Relapsing Fever)
- Deer Tick Virus
- Powassan Virus

Number of Ticks that Tested Positive for Pathogens in Delaware County

	2020	2021	2022	2023	2024	2025
Borrelia burgdorferi (Lyme Disease)	49	6	33	27	35	2
Anaplasma phagocytophilum (Anaplasmosis)	9	9	9	5	5	
Babesia microti (Babesiosis)	17	3	12	14	9	2
Ehrlichiosis	0	0	0	0	0	0
Powassan Virus	0	0	0	0	0	0
Borrelia mayonii (Lyme Disease)	0	0	0	0	0	0
Deer Tick Virus	0	0	0	0	0	0
Borrelia miyamotoi (Hard Tick Relapsing Fever)	0	0	0	1	0	0

Statewide Vector Index by Year



2025 Mosquito Borne Disease Control Outreach

- Purpose and Growth of Outreach Program
- 22 outreach events conducted during 2025 MDC season
- Summer camps, television and radio interviews, education presentations at elementary schools, local organizations, senior centers
- What we have learned and next steps

Collaborating with DEP on WNV Investigations

- Coordinating with PA DEP biologists on WNV human case investigations
- DCHD conducts additional host seeking surveillance around affected area
 - Identify need for mosquito control to disrupt mosquito life cycle
- PA DEP conducts outreach in affected area

Training and Development

CERTIFIED APPLICATORS

Training staff to become
certified pesticide applicators

Foster development

VECTOR ACADEMY

Staff Training led by the PA
Department of Environmental
Protection

Empower staff

CONTINUOUS EDUCATION

Goal 2x/year

Foster staff

VIRTUAL TRAINING SESSIONS

Enhance knowledge

MISSION VISION VALUE

Incorporating into the
assessments of our program
and workforce

*Enhance trust within division
and community*