

West Nile Virus Activity in NJ 2024



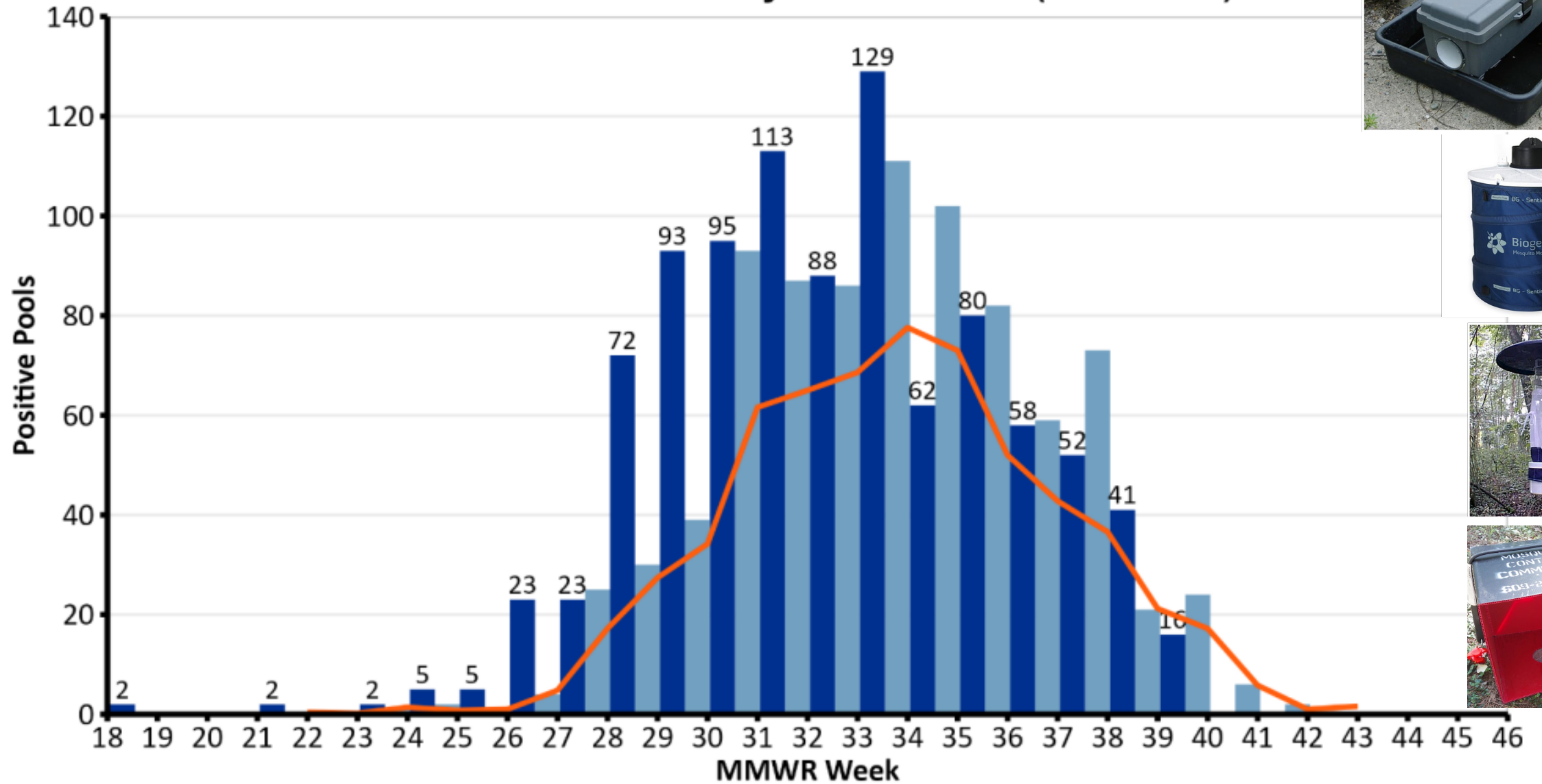
Scott C. Crans, Administrator
Office of Mosquito Control Coordination

State vector surveillance program

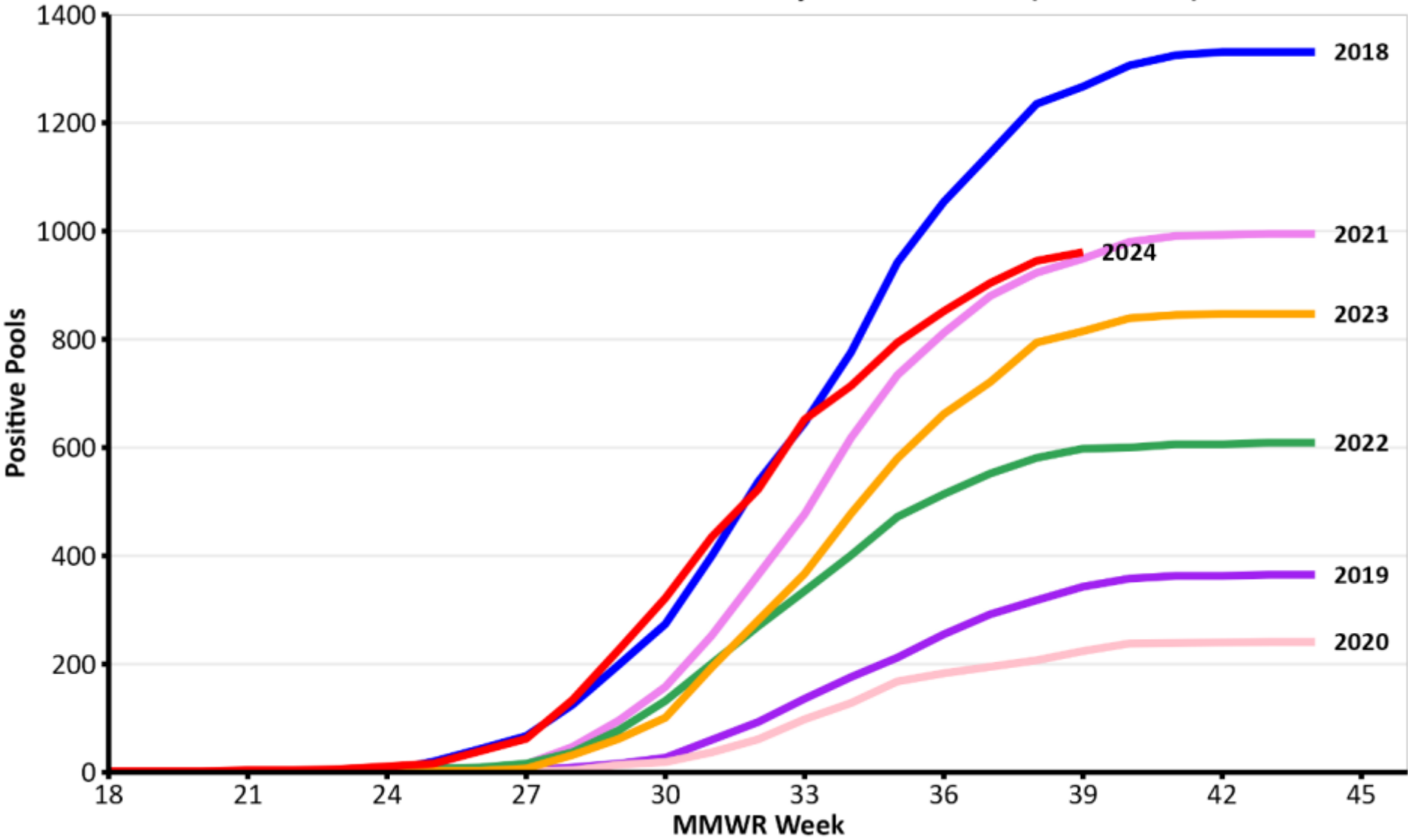
- 21 county programs
 - 20 pools per week (WESJ, LAC, ZCD)
 - Test/report Mid-May through mid-November
 - State Commission pays for testing (~420, pools per week)
- Additional testing **Standard weekly effort**
 - EEE surveillance (resting boxes)
 - State & Cape May surveillance efforts
 - Human, equine, etc., case follow-up (case by case)
- Statewide report, weekly snapshot, control



WNV Positive Pools by MMWR Week (2023-2024)

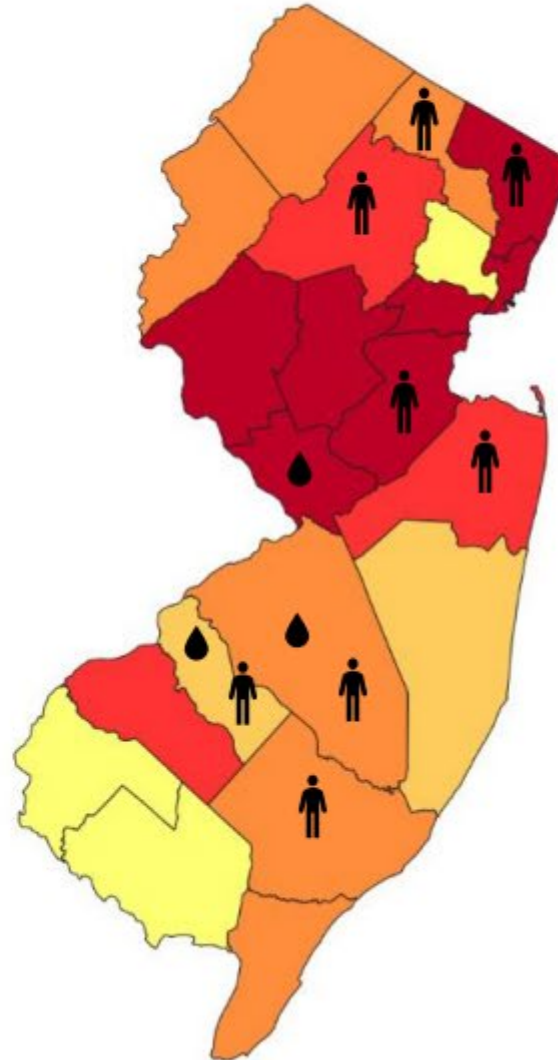
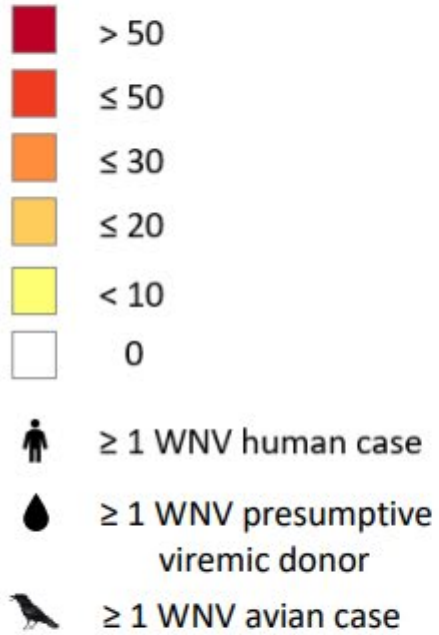


WNV Cumulative Positive Pools by MMWR Week (2018-2024)

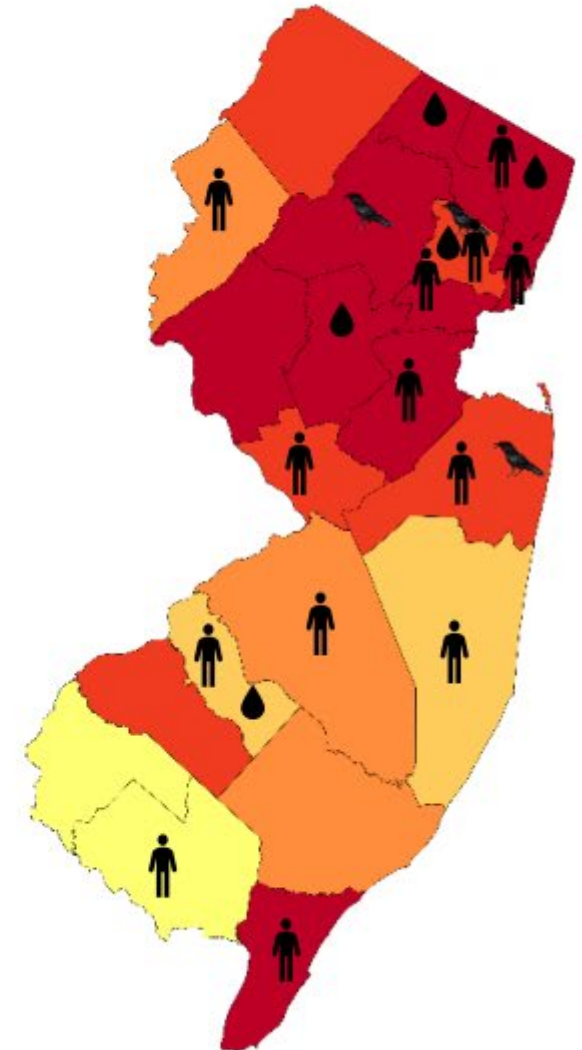


2023 WNV Activity

WNV Positive Pools



Cumulative WNV Activity, 2024



Eastern Equine Encephalitis

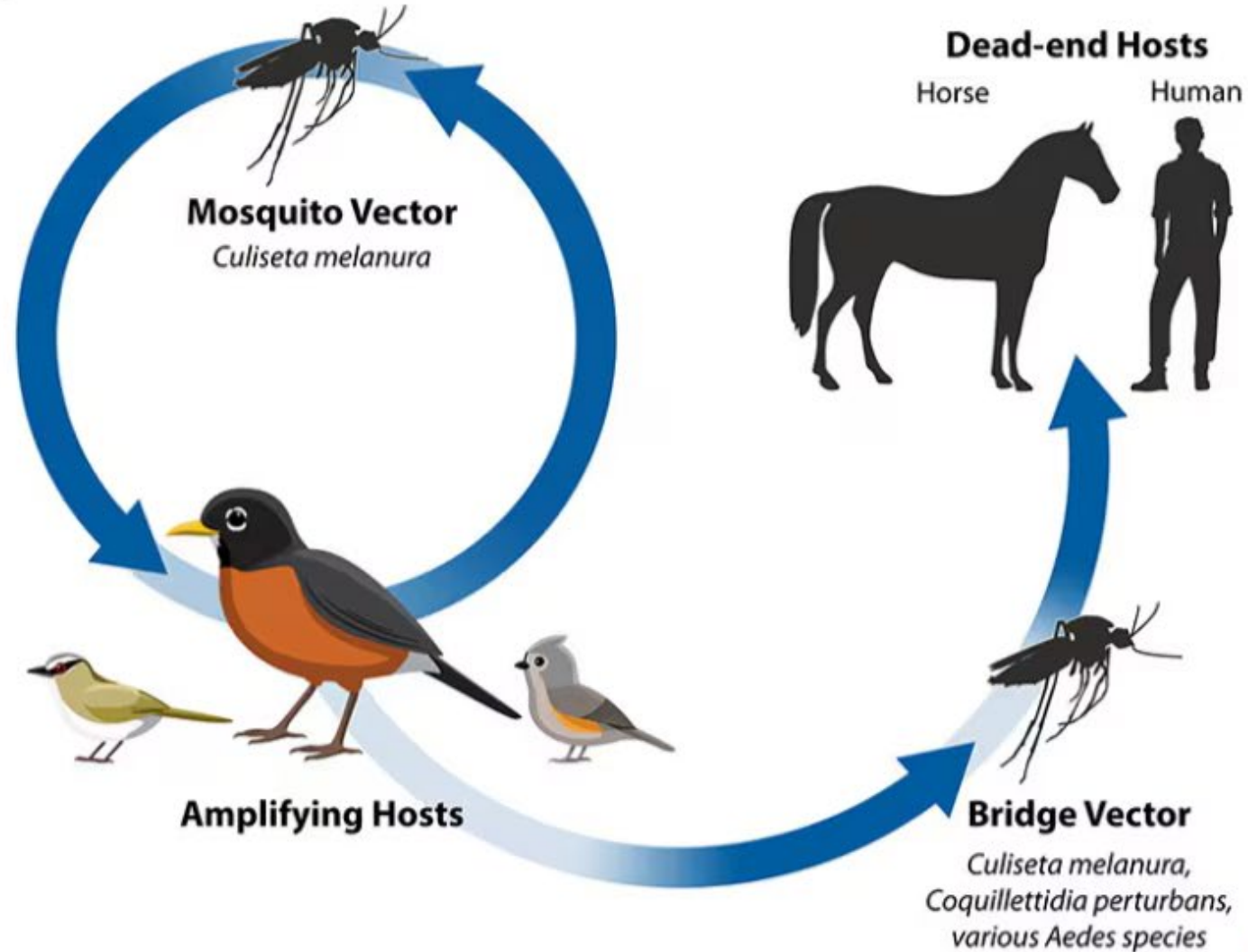
- Eastern equine encephalitis is caused by a virus in the genus *Alphavirus*.
- The virus is maintained in the environment by *Culiseta melanura* mosquitoes and avian hosts.
- Humans and other animals are typically infected by bridge vectors and are considered dead-end hosts.
- Rare, but serious disease. 30% who develop symptoms die. Survivors have ongoing neurologic problems.
- Avoid mosquito bites.



Eastern Equine Encephalitis Transmission

The Eastern equine encephalitis virus **cycles between mosquitoes and birds**. The *Culiseta melanura* mosquito, which primarily bites birds, is responsible for spreading the virus among birds. The virus then multiplies in the birds' bloodstream.

People and other animals, like horses, become infected with the virus when mosquito species that feed on many kinds of animals, feed on infected birds and then bite people. People and horses are considered **dead-end hosts** because unlike birds, they don't develop high levels of virus in their bloodstream and cannot pass the virus on to other biting mosquitoes.

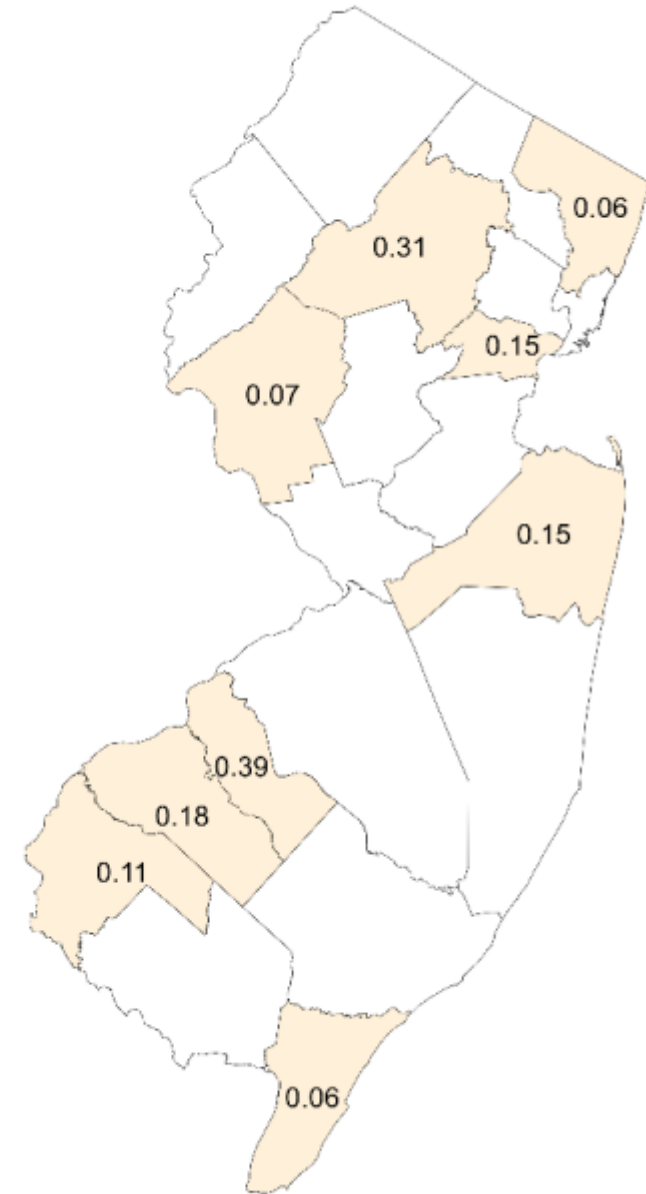


CS 318140

EEE Mosquito Pool Testing

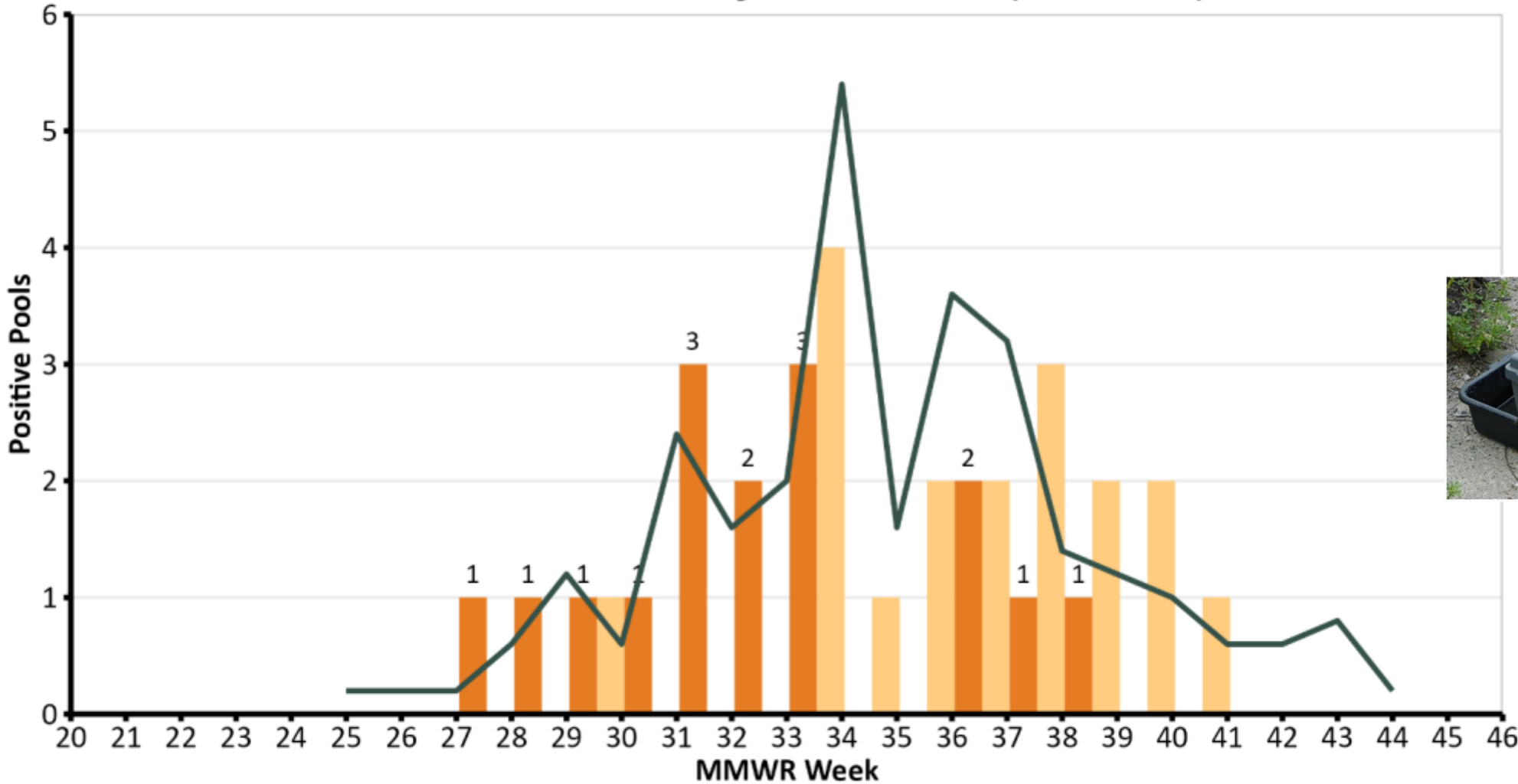
	WEEK 39 Positive Pools		Cumulative Pos. Total* (WEEK 39)		# Pools Tested	Cumulative MFIR
County	2024	2023	2024	2023	2024	2024
Morris			4	1	394	0.31
Cape May			2	1	3,603	0.06
Gloucester			2		631	0.18
Monmouth			2		439	0.15
Union			2		291	0.15
Bergen			1		352	0.06
Camden			1	2	224	0.39
Hunterdon		1	1	1	351	0.07
Salem			1		508	0.11
Atlantic				3	421	
Burlington		1		3	275	
Cumberland				3	380	
Essex					402	
Hudson					293	
Mercer					400	
Middlesex					340	
Ocean					361	
Passaic					262	
Somerset				1	286	
Sussex					344	
Warren					387	
Total	0	2	16	15	10,944	-

Cumulative EEE MFIR, 2024



WEEK 39: Sep 24 - 30, 2023; Sep 22 - 28, 2024

EEE Positive Pools by MMWR Week (2023-2024)



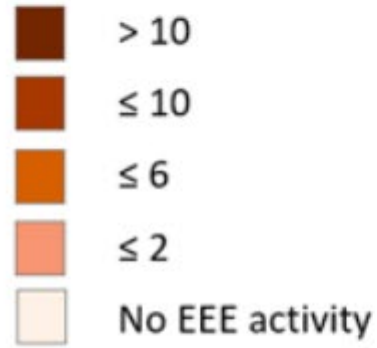
5-Yr Avg — 2023 2024



2023 EEE Activity

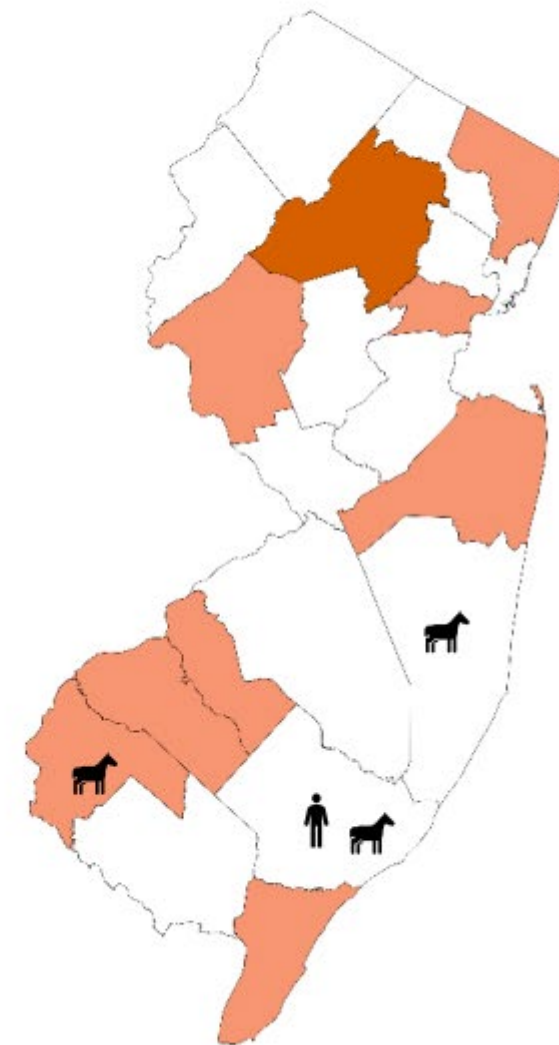
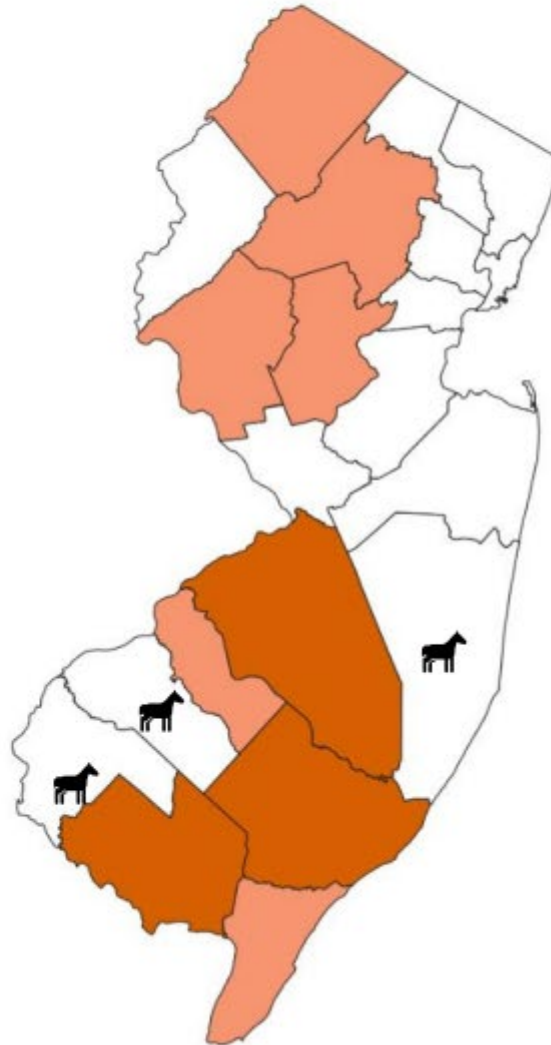
Cumulative EEE Activity, 2024

EEE Positive Pools

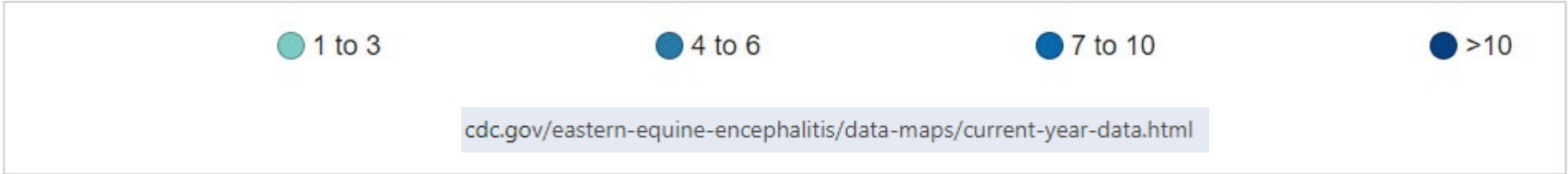


 ≥ 1 EEE human case

 ≥ 1 EEE equine case



Eastern equine encephalitis virus human disease cases reported by state of residence, 2024



[cdc.gov/eastern-equine-encephalitis/data-maps/current-year-data.html](https://www.cdc.gov/eastern-equine-encephalitis/data-maps/current-year-data.html)

Contact information

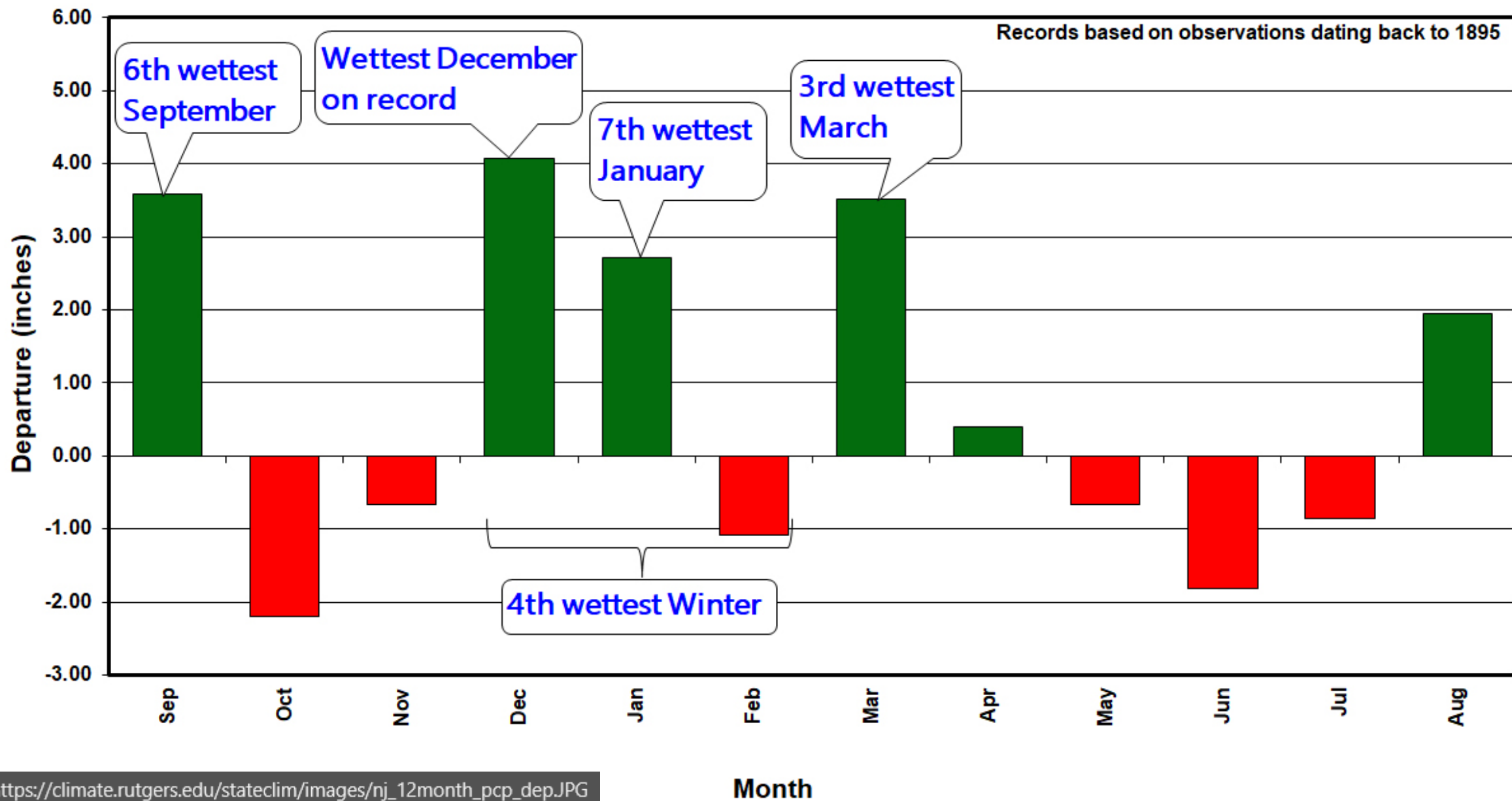
- Scott C. Crans, Administrator
- NJDEP, Office Of Mosquito Control
Coordination, Mail Code 501-03 P.O. Box 420
Trenton, NJ 08625-0420
- Phone (609) 292-3649
- Fax (609) 633-0650
- E-mail scott.crans@dep.nj.gov
- Web site <http://www.state.nj.us/dep/mosquito/>



**Mosquito control is everybody's responsibility
It's a big job & everyone needs to do their part!**

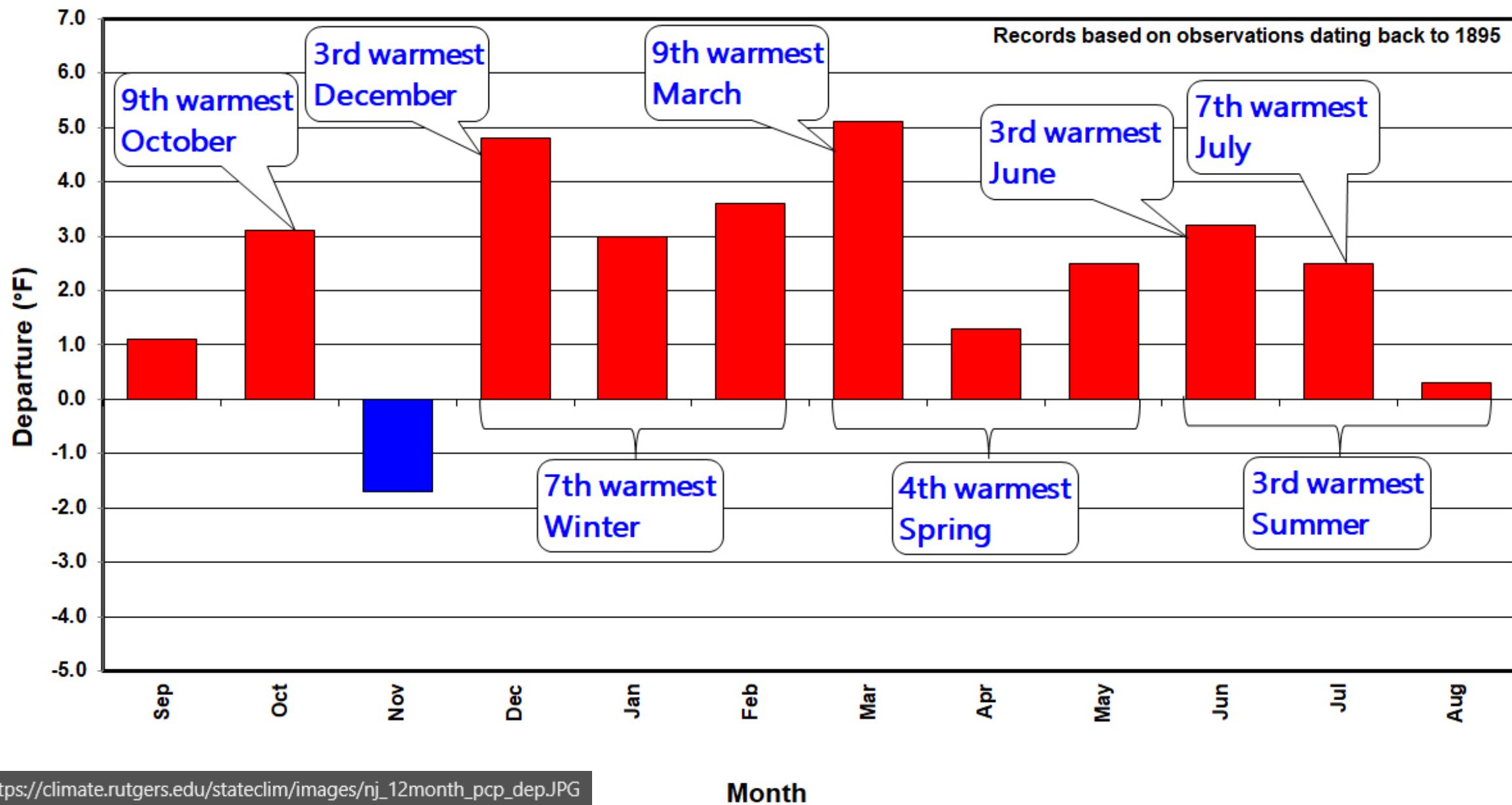
NJ Monthly Precipitation Departures (September 2023 – August 2024)

Departures calculated from differences between observed monthly precipitation and 1991–2020 monthly averages



NJ Monthly Temperature Departures (September 2023 – August 2024)

Departures calculated from differences between observed monthly temperatures and 1991–2020 monthly averages



Statistics, Reports & Publications

COVID-19 Weekly
Surveillance Reports

Influenza Surveillance
Reports

Vector-borne Surveillance
Reports

Reportable Disease
Statistics

Animal Rabies Statistics

Immunization
Status/Exemption Reports

Publications

Vectorborne Disease Data Dashboard

This dashboard uses interactive data visualizations to display vector-borne disease case data (counts and incidence rates), emergency department visits for tick-related illness, and vector-borne pathogen (germ) data in mosquitoes and ticks.

[Open Dashboard](#)

Vector-borne Surveillance Reports

Activity Maps



[Arboviral Activity Map](#)

Weekly Test Results

2024

- [Vector-borne Surveillance Report week ending September 28, 2024 \(MMWR Week 39\)](#)
- [Vector-borne Surveillance Report week ending September 14, 2024 \(MMWR Week 37\)](#)
- [Vector-borne Surveillance Report week ending September 7, 2024 \(MMWR Week 36\)](#)
- [Vector-borne Surveillance Report week ending August 31, 2024 \(MMWR Week 35\)](#)
- [Vector-borne Surveillance Report week ending August 24, 2024 \(MMWR Week 34\)](#)
- [Vector-borne Surveillance Report week ending August 17, 2024 \(MMWR Week 33\)](#)
- [Vector-borne Surveillance Report week ending August 10, 2024 \(MMWR Week 32\)](#)
- [Vector-borne Surveillance Report week ending August 3, 2024 \(MMWR Week 31\)](#)
- [Vector-borne Surveillance Report week ending July 27, 2024 \(MMWR Week 30\)](#)
- [Vector-borne Surveillance Report week ending July 20, 2024 \(MMWR Week 29\)](#)
- [Vector-borne Surveillance Report week ending July 13, 2024 \(MMWR Week 28\)](#)
- [Vector-borne Surveillance Report Week ending July 6, 2024 \(MMWR Week 27\)](#)
- [Vector-borne Surveillance Report Week ending June 29, 2024 \(MMWR Week 26\)](#)
- [Vector-borne Surveillance Report Week ending June 22, 2024 \(MMWR Week 25\)](#)
- [Vector-borne Surveillance Report Week ending June 15, 2024 \(MMWR Week 24\)](#)
- [Vector-borne Surveillance Report Week ending June 8, 2024 \(MMWR Week 23\)](#)
- [Vector-borne Surveillance Report Week ending June 1, 2024 \(MMWR Week 22\)](#)
- [Vector-borne Surveillance Report Week ending May 25, 2024 \(MMWR Week 21\)](#)

2023

- [2023 End of Year Vector-borne Disease Report](#)

[Intro](#)[Incidence Map](#)[Human Cases](#)[Trends In VBD](#)[Tick-Related ED Visits](#)[Mosquito Activity](#)[Tick Activity](#)[About The Data](#)

Vector-Borne Diseases in New Jersey



Updated: 10/3/2024 1:53:13 PM

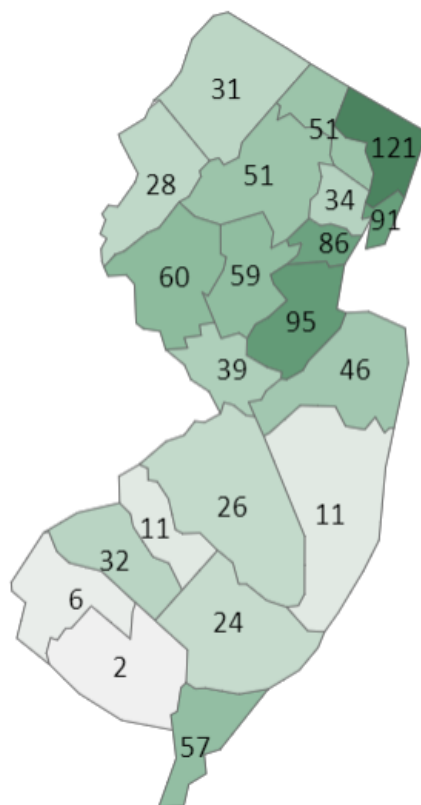
Positive Mosquito Pools by Pathogen (Germ), Year, County, and Week

Year

2024

Pathogen (Germ)

West Nile Virus

Total Positives: **961**

West Nile Virus Positive Pools by Week

