Vector-borne Surveillance Report

CDC Week 22: May 31 - June 6, 2026

Highlights:

- ***One additional mosquito pool tested positive for West Nile Virus (WNV) since last week's report from Gloucester County. Thirteen mosquitos have tested positive to date in 2025 from eight counties.***
- ***The average number of Culex mosquitoes, which are associated with WNV transmission, was highest in Union and Hudson counties.***
- ***There have been no human or animal cases of WNV in 2026. There have been no human, animal, or mosquito detections of Eastern equine encephalitis (EEE) or Jamestown Canyon virus (JCV) in 2026.***
- ***The number of Lyme disease cases and the number of tick-related emergency department visits increased this week and are above historical averages.***

Human Vector-borne Disease Cases

N.J.A.C. 8:57 mandates public health reporting of communicable diseases. 2026 data reflect cases that have been approved by NJDOH and do not include cases under investigation. Due to the time needed for public health investigation, the number of tickborne diseases (except for Lyme disease) may be significantly lower than actual counts and should be interpreted with caution. All 2026 numbers are preliminary and subject to change. Some cases are considered "presumptive positive" and are pending additional testing. Case counts for 2025 reflect the annual total for that year.

Mosquito-borne Diseases			Tickborne Diseases/Conditions		
	2026	2025		**2026**	2025
Chikungunya	**1**	10	Alpha-Gal Syndrome	**114**	501
Dengue	**2**	14	Anaplasmosis	**51**	312
Malaria	**32**	89	Babesiosis	**18**	372
West Nile	**-**	23	Ehrlichiosis	**16**	98
Eastern Equine Encephalitis	**-**	-	Hard Tick Relapsing Fever	**1**	14
Jamestown Canyon	**-**	-	Lyme Disease	**2273**	6597
Zika	**-**	-	Powassan	**-**	2
			Spotted Fever Group Rickettsioses	**2**	25
			Tularemia	**-**	1

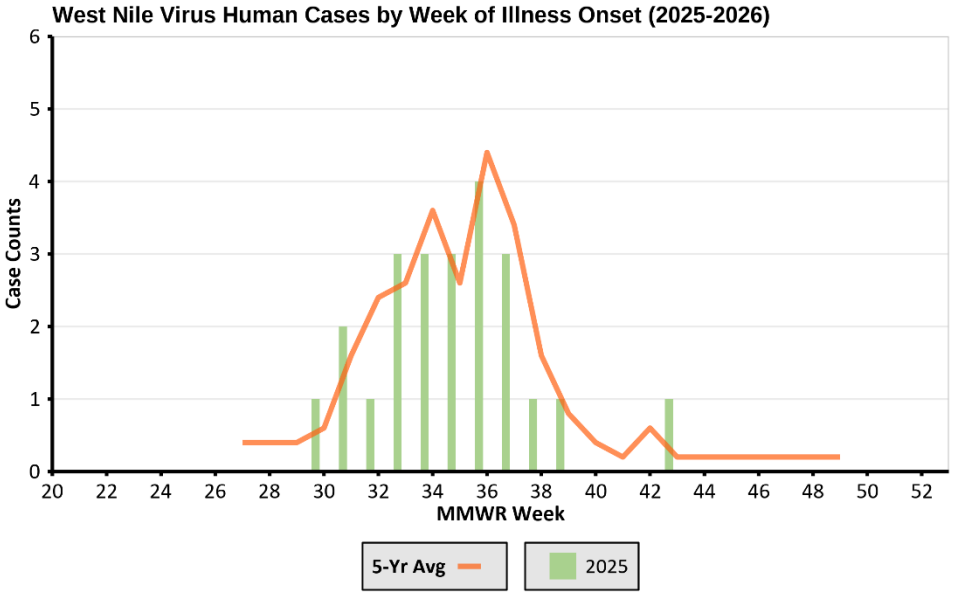
Mosquito-borne Disease Activity

The New Jersey Department of Health Public Health and Environmental Laboratories (PHEL) and the Cape May County Department of Mosquito Control Bio-safety Level 3 Laboratory (CMBSL3) perform arboviral testing on mosquito pools collected by county mosquito control agencies throughout NJ.

Test results may be incomplete as counties submit pools for testing on specific weekdays. Data reflects test results downloaded from JerseySurv on June 11, 2026 at 12:00 pm.

West Nile Virus

- There have been no human or animal cases of WNV reported in NJ in 2026.
- State mosquito surveillance and testing started May 18th, although some counties collected "early season" samples (387 mosquito pools collected prior to week 20). All 21 counties have submitted mosquitoes for testing in 2026 and out of 1,347 pools tested, 13 have tested positive for WNV in eight counties. In 2025, the earliest WNV detection was reported in Gloucester County, collected week 16.
- 2026 WNV detections were in *Culex pipiens/restuans/salinarius* (12) and *Aedes japonicus* (1) mosquitoes.



WNV Human Activity

County	Cases 2026	Cases 2025	PVD* 2026	PVD* 2025
Atlantic		2		
Bergen		2		
Burlington		2		2
Camden		1		
Cape May				
Cumberland				
Essex		1		
Gloucester		1		
Hudson		1		
Hunterdon				
Mercer		1		
Middlesex		4		2
Monmouth		2		
Morris		2		
Ocean				
Passaic		1		
Salem				
Somerset				
Sussex		1		1
Union		2		
Warren				
Total	**0**	**23**	**0**	**5**

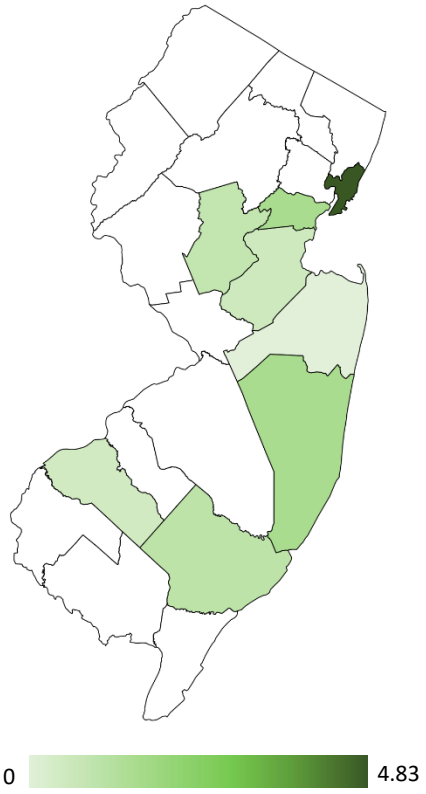
*Positive Viremic Donors

WNV Mosquito Pool Testing

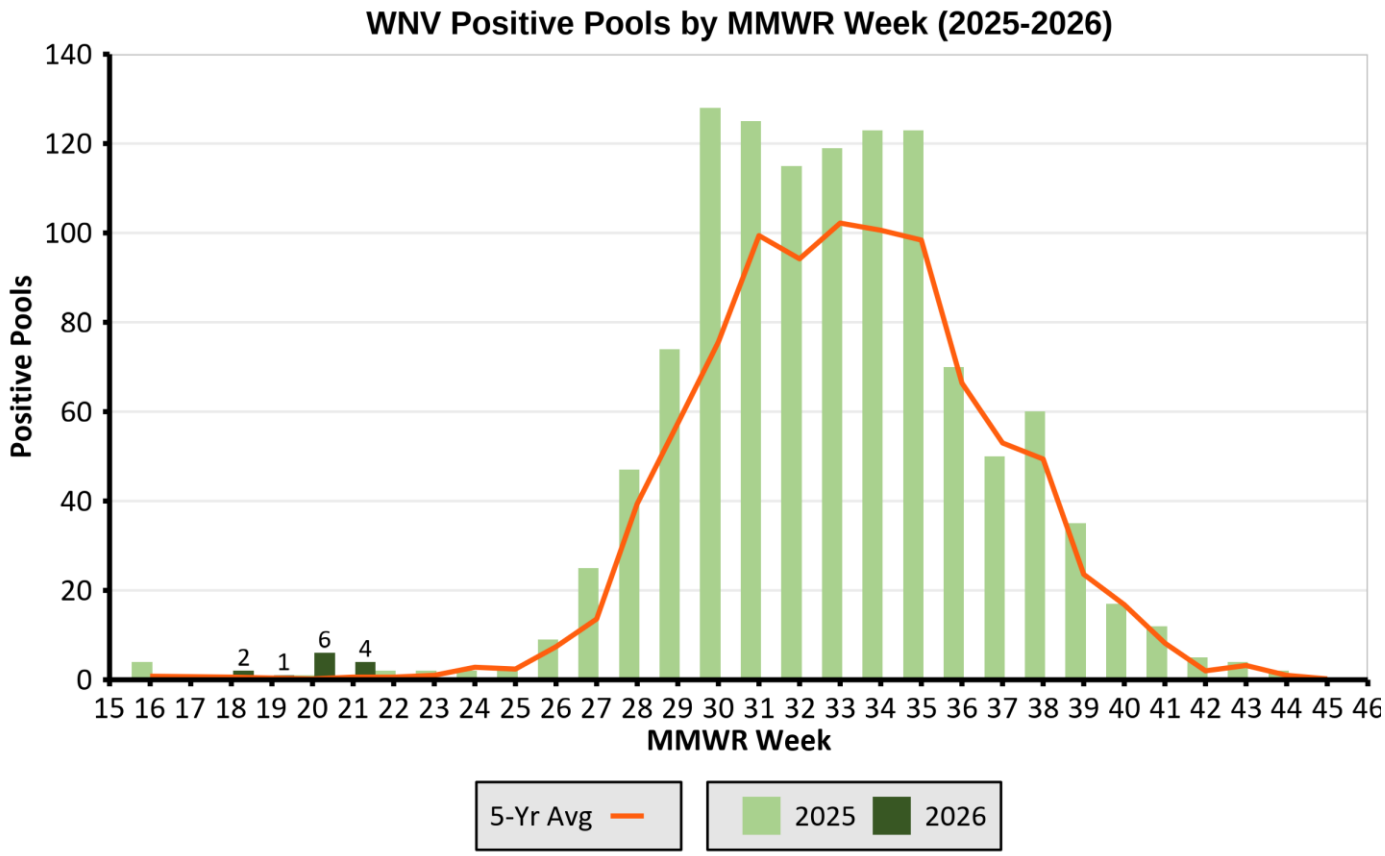
County	WEEK 22 Positive Pools 2026	WEEK 22 Positive Pools 2025	Cumulative Pos. Total (WEEK 22) 2026	Cumulative Pos. Total (WEEK 22) 2025	# Pools Tested 2026	Cumulative MIR 2026[1]
Hudson	-	-	2	-	22	4.83
Union	-	-	1	-	12	1.68
Ocean	-	-	1	-	57	1.68
Atlantic	-	-	2	-	69	1.19
Somerset	-	-	1	-	29	1.06
Middlesex	-	-	2	-	60	0.83
Gloucester	-	-	3	5	117	0.73
Monmouth	-	-	1	-	60	0.31
Bergen	-	-	-	1	48	0.00
Burlington	-	-	-	-	2	0.00
Camden	-	-	-	-	70	0.00
Cape May	-	1	-	1	205	0.00
Cumberland	-	-	-	-	60	0.00
Essex	-	-	-	-	99	0.00
Hunterdon	-	-	-	-	61	0.00
Mercer	-	-	-	-	31	0.00
Morris	-	1	-	1	93	0.00
Passaic	-	-	-	-	52	0.00
Salem	-	-	-	-	80	0.00
Sussex	-	-	-	-	60	0.00
Warren	-	-	-	1	60	0.00
Total	**0**	**2**	**13**	**9**	**1347**	**-**

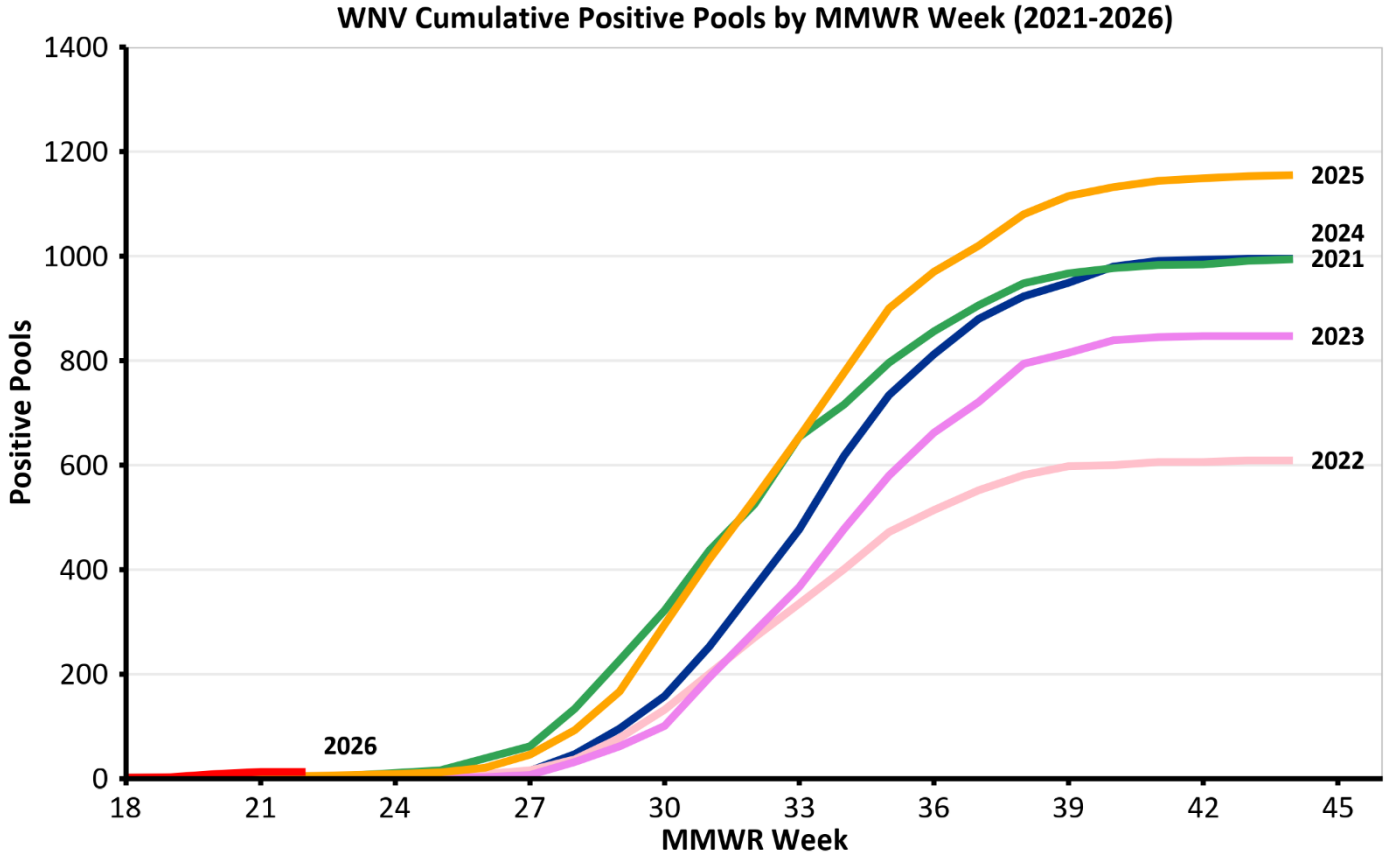
WEEK 22: May 25 - 31, 2025; May 31 - June 6, 2026

Cumulative WNV MIR, 2026

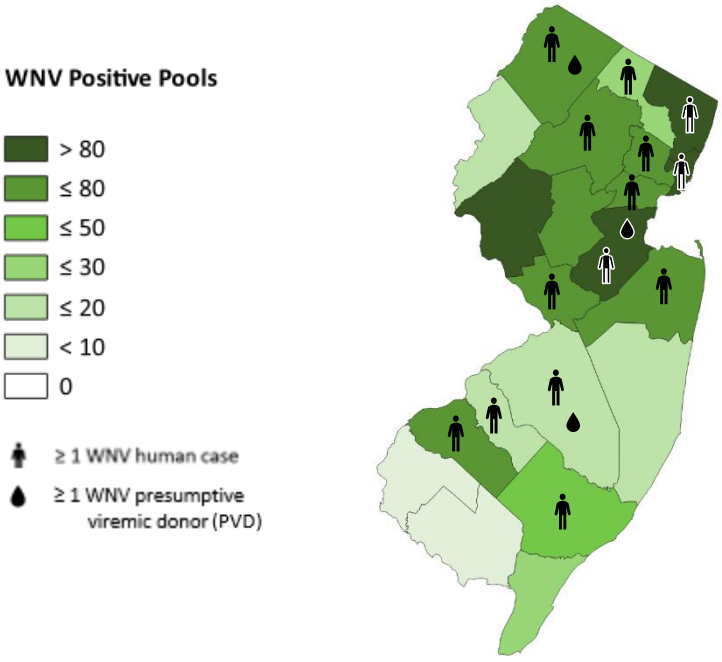


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000


WNV Positive Pools by MMWR Week (2025-2026)
Positive Pools
MMWR Week
2
1
6
4
5-Yr Avg
2025
2026


WNV Cumulative Positive Pools by MMWR Week (2021-2026)
Positive Pools
MMWR Week
2025
2024
2021
2023
2022
2026

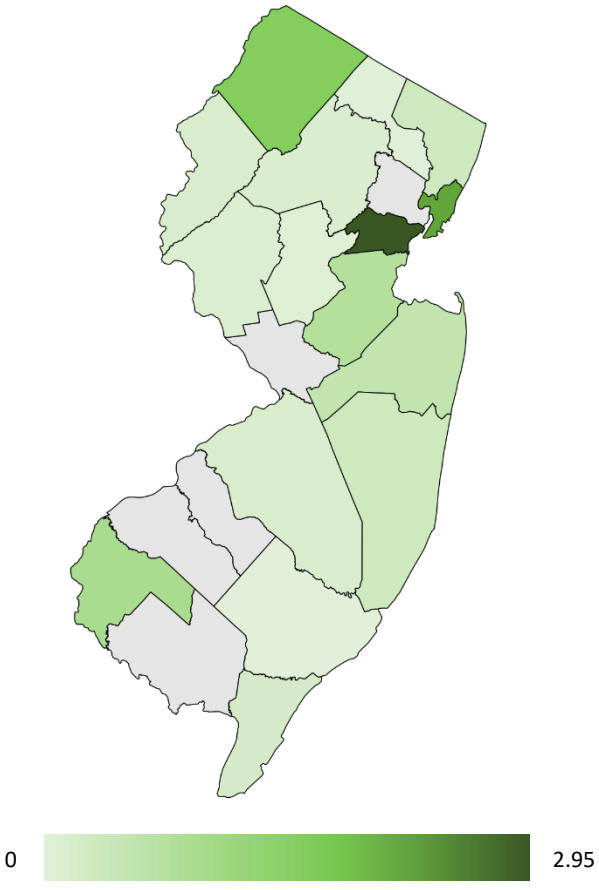
2025 WNV Activity



2026 WNV Activity

Average *Culex* Mosquitoes per Trap Night (average mosquito abundance)	
County	**WEEK 21 - 22 Average Abundance***
Union	2.95
Hudson	2.22
Sussex	1.60
Salem	0.99
Middlesex	0.84
Monmouth	0.64
Ocean	0.47
Bergen	0.44
Cape May	0.34
Warren	0.30
Burlington	0.29
Morris	0.27
Hunterdon	0.25
Somerset	0.21
Passaic	0.17
Atlantic	0.14
Camden	No available data
Cumberland	No available data
Essex	No available data
Gloucester	No available data
Mercer	No available data

Average Mosquito Abundance, *Culex* spp., Week 21 – 22[*]



[t] Average mosquito abundance is defined as the average number of mosquitoes caught per trap night over a defined period and is calculated based on *Culex pipiens, restuans, and salinarius* species caught in NJ Light Traps (NJLT) only. These species are associated with WNV transmission.

Eastern Equine Encephalitis

- There have been no human or animal cases of EEE reported in 2026. EEE human cases were last reported in 2024 (2 cases).
- Out of 1,339 mosquito pools from 21 counties tested for EEE, none have tested positive.
- In 2025, the first EEE positive pool was detected in week 33 in Atlantic County.

EEE Mosquito Pool Testing

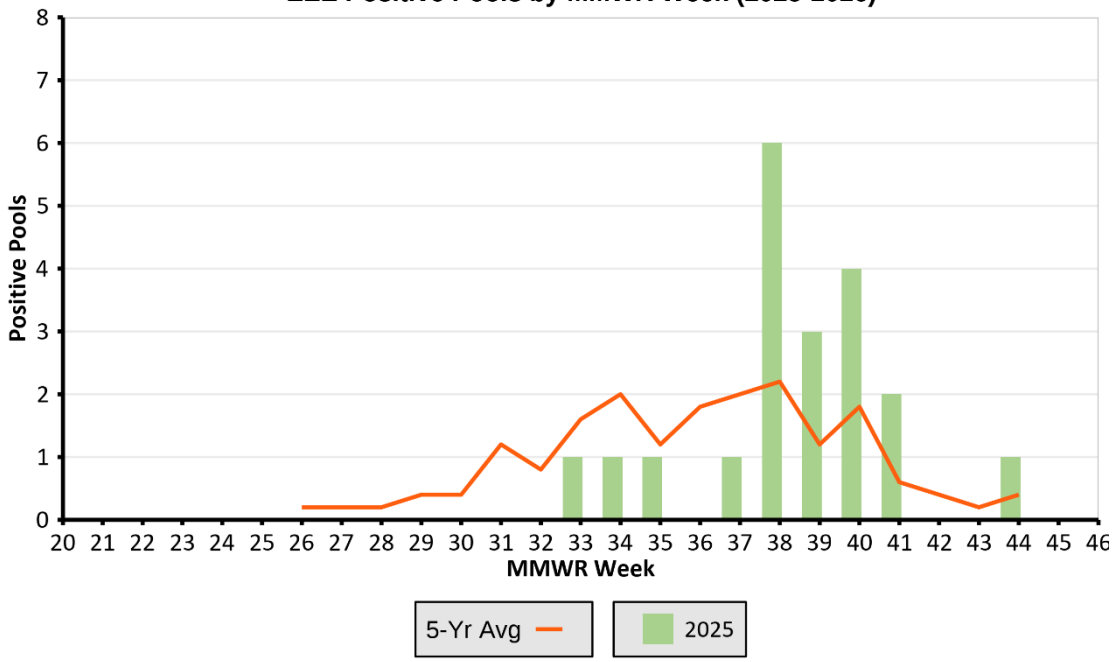
	WEEK 22 Positive Pools		Cumulative Pos. Total (WEEK 22)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Atlantic	-	-	-	-	69	0.00
Bergen	-	-	-	-	48	0.00
Burlington	-	-	-	-	2	0.00
Camden	-	-	-	-	70	0.00
Cape May	-	-	-	-	205	0.00
Cumberland	-	-	-	-	60	0.00
Essex	-	-	-	-	99	0.00
Gloucester	-	-	-	-	109	0.00
Hudson	-	-	-	-	22	0.00
Hunterdon	-	-	-	-	61	0.00
Mercer	-	-	-	-	31	0.00
Middlesex	-	-	-	-	60	0.00
Monmouth	-	-	-	-	60	0.00
Morris	-	-	-	-	93	0.00
Ocean	-	-	-	-	57	0.00
Passaic	-	-	-	-	52	0.00
Salem	-	-	-	-	80	0.00
Somerset	-	-	-	-	29	0.00
Sussex	-	-	-	-	60	0.00
Union	-	-	-	-	12	0.00
Warren	-	-	-	-	60	0.00
Total	**0**	**0**	**0**	**0**	**1339**	-

Cumulative EEE MIR, 2026

Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

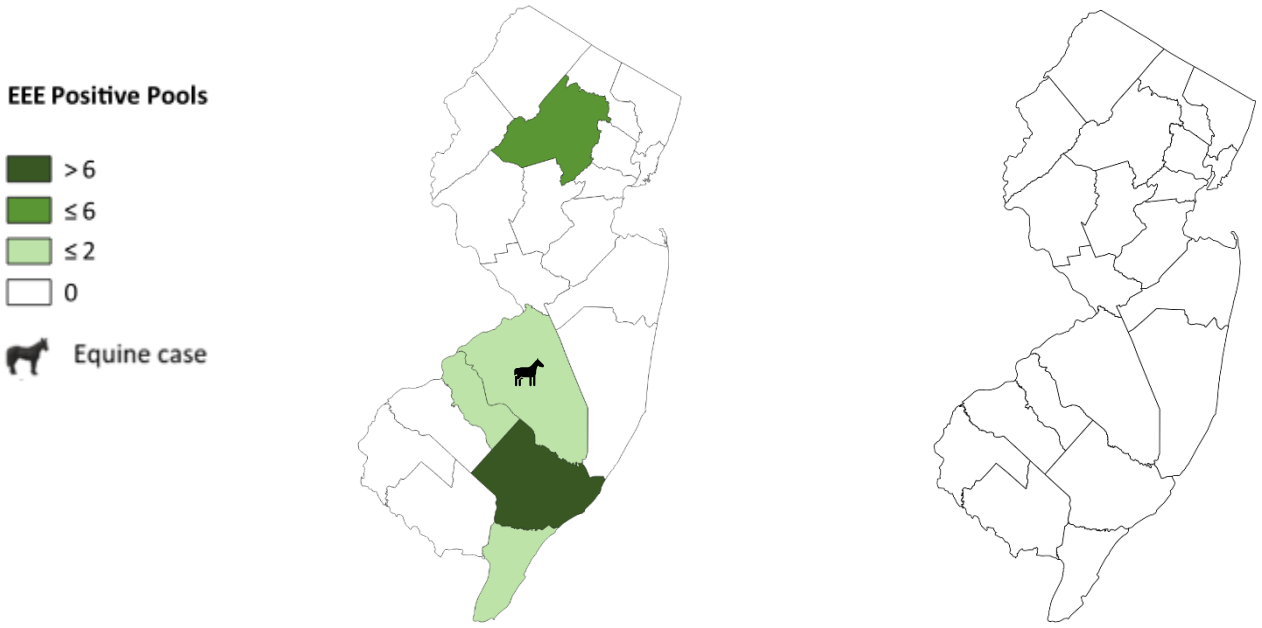
WEEK 22: May 25 - 31, 2025; May 31 - June 6, 2026

EEE Positive Pools by MMWR Week (2025-2026)



2025 EEE Activity

2026 EEE Activity



Jamestown Canyon Virus

- There have been no human cases of JCV reported in NJ in 2026. In 2025, there were two human cases of JCV from Middlesex and Burlington counties.
- Out of 1,339 mosquito pools from 21 counties tested for JCV, none have tested positive.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

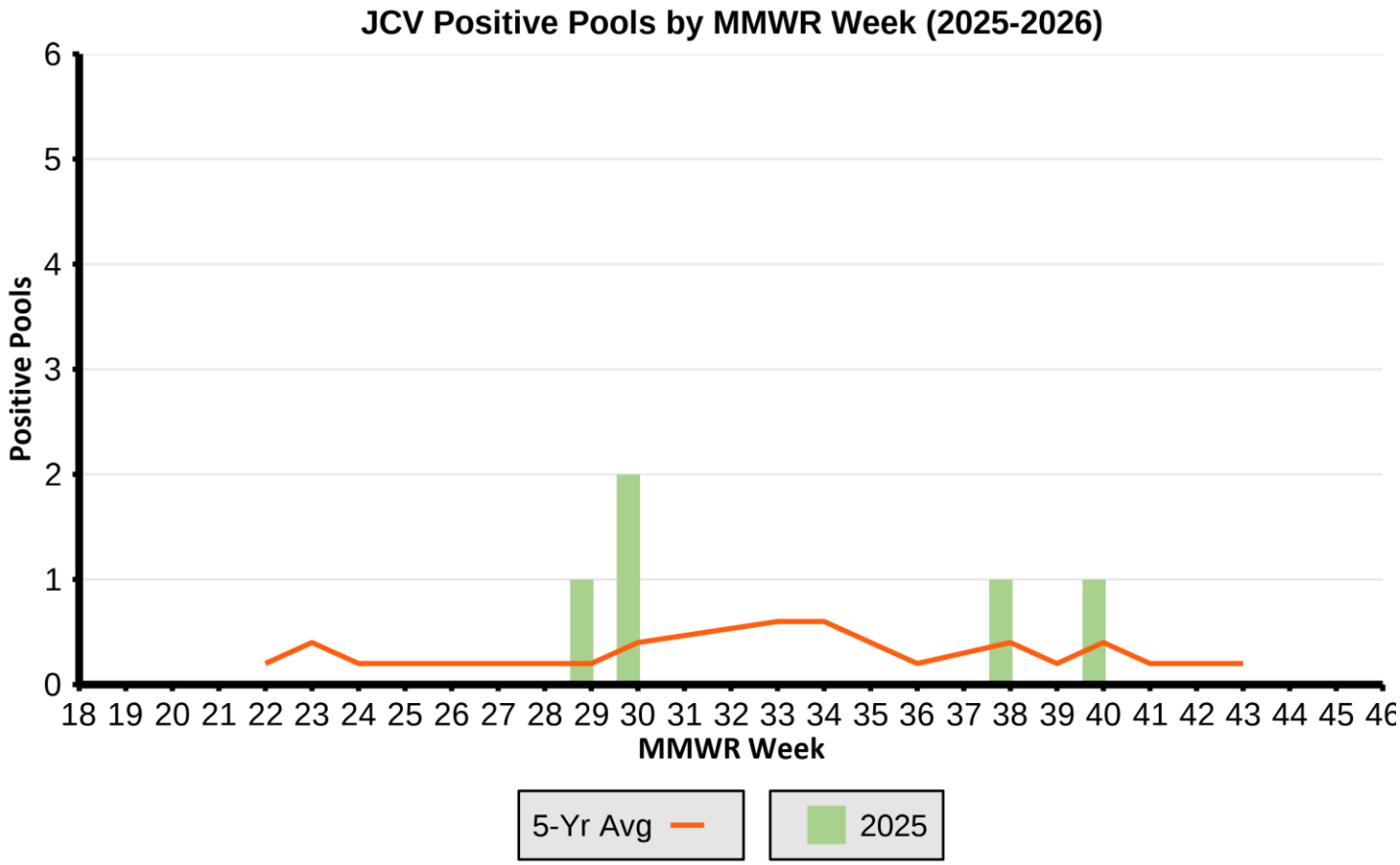
JCV Mosquito Pool Testing

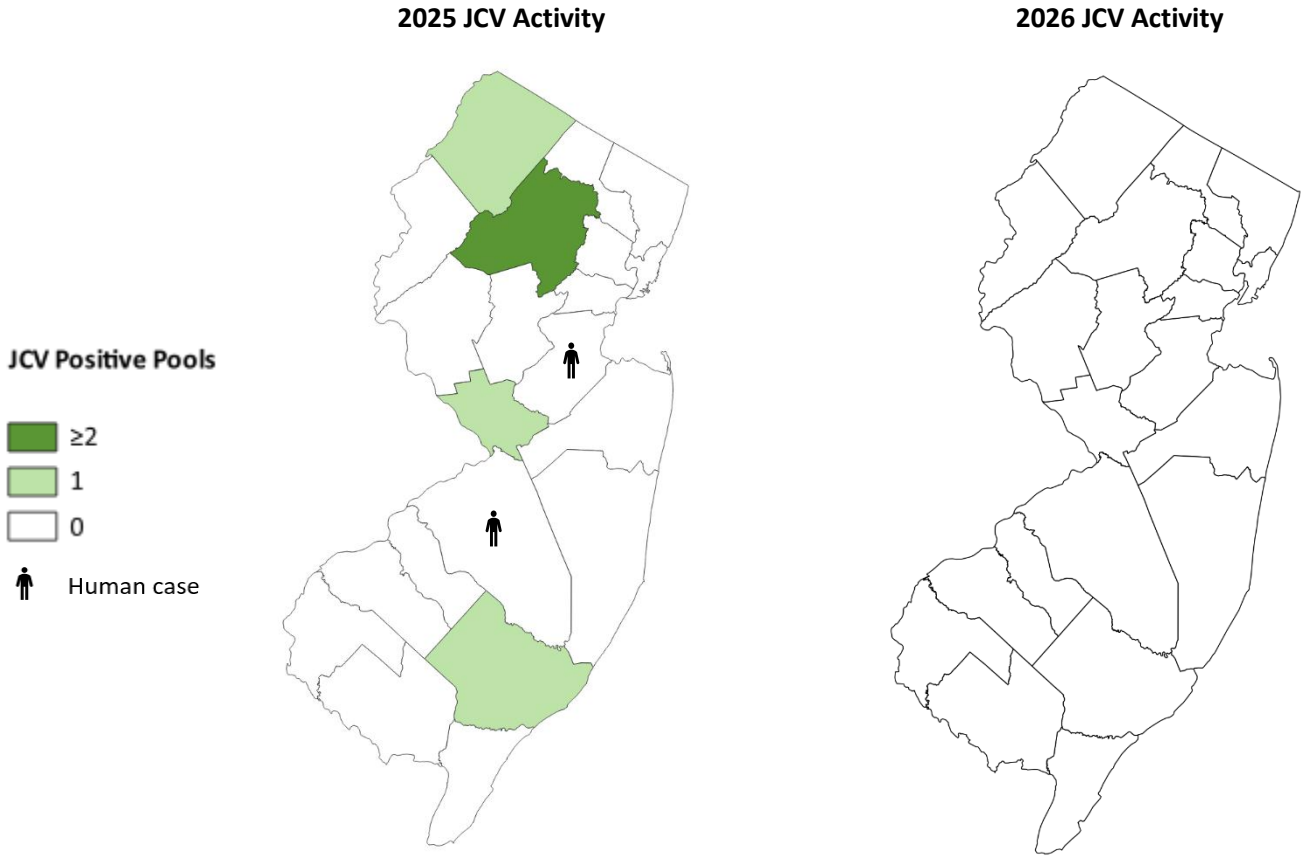
	WEEK 22 Positive Pools		Cumulative Pos. Total (WEEK 22)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Atlantic	-	-	-	-	69	0.00
Bergen	-	-	-	-	48	0.00
Burlington	-	-	-	-	2	0.00
Camden	-	-	-	-	70	0.00
Cape May	-	-	-	-	205	0.00
Cumberland	-	-	-	-	60	0.00
Essex	-	-	-	-	99	0.00
Gloucester	-	-	-	-	109	0.00
Hudson	-	-	-	-	22	0.00
Hunterdon	-	-	-	-	61	0.00
Mercer	-	-	-	-	31	0.00
Middlesex	-	-	-	-	60	0.00
Monmouth	-	-	-	-	60	0.00
Morris	-	-	-	-	93	0.00
Ocean	-	-	-	-	57	0.00
Passaic	-	-	-	-	52	0.00
Salem	-	-	-	-	80	0.00
Somerset	-	-	-	-	29	0.00
Sussex	-	-	-	-	60	0.00
Union	-	-	-	-	12	0.00
Warren	-	-	-	-	60	0.00
Total	**0**	**0**	**0**	**0**	**1339**	-

WEEK 22: May 25 - 31, 2025; May 31 - June 6, 2026

Cumulative JCV MIR, 2026

Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000


JCV Positive Pools by MMWR Week (2025-2026)
Positive Pools
0
1
2
3
4
5
6
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
MMWR Week
5-Yr Avg
2025


2025 JCV Activity
2026 JCV Activity
JCV Positive Pools
≥2
1
0
Human case

Other Mosquito-borne Diseases

- Mosquito pools in 21 counties have been tested for St. Louis encephalitis with no positive results.
- Mosquito pools in 1 county have been tested for La Crosse encephalitis with no positive results.

Cumulative 2026 Mosquito Pool Testing (Other Viruses[a])

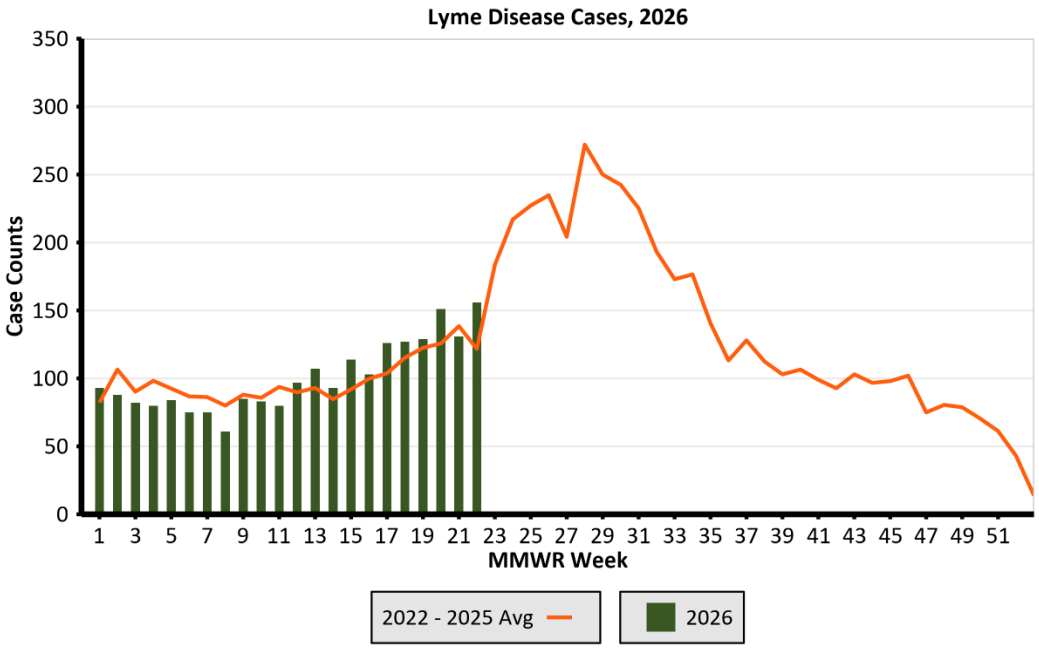
	SLE		LAC		CHIKV		DENV		ZIKV	
County	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	69									
Bergen	48									
Burlington	2									
Camden	70									
Cape May	205									
Cumberland	60									
Essex	99									
Gloucester	109		8							
Hudson	22									
Hunterdon	61									
Mercer	31									
Middlesex	60									
Monmouth	60									
Morris	93									
Ocean	57									
Passaic	52									
Salem	80									
Somerset	29									
Sussex	60									
Union	12									
Warren	60									
Total	**1339**	**0**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

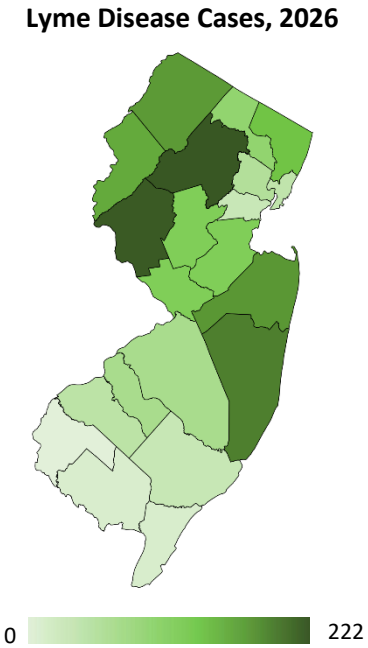
[a] St. Louis virus (SLE), La Crosse encephalitis (LAC), Chikungunya virus (CHIKV), Dengue virus (DENV), Zika Virus (ZIKV)
Numbers in white columns represent number of pools tested to date in 2026
Number in green shaded columns represent positive pools in 2026

Tickborne Disease Activity

Lyme Disease

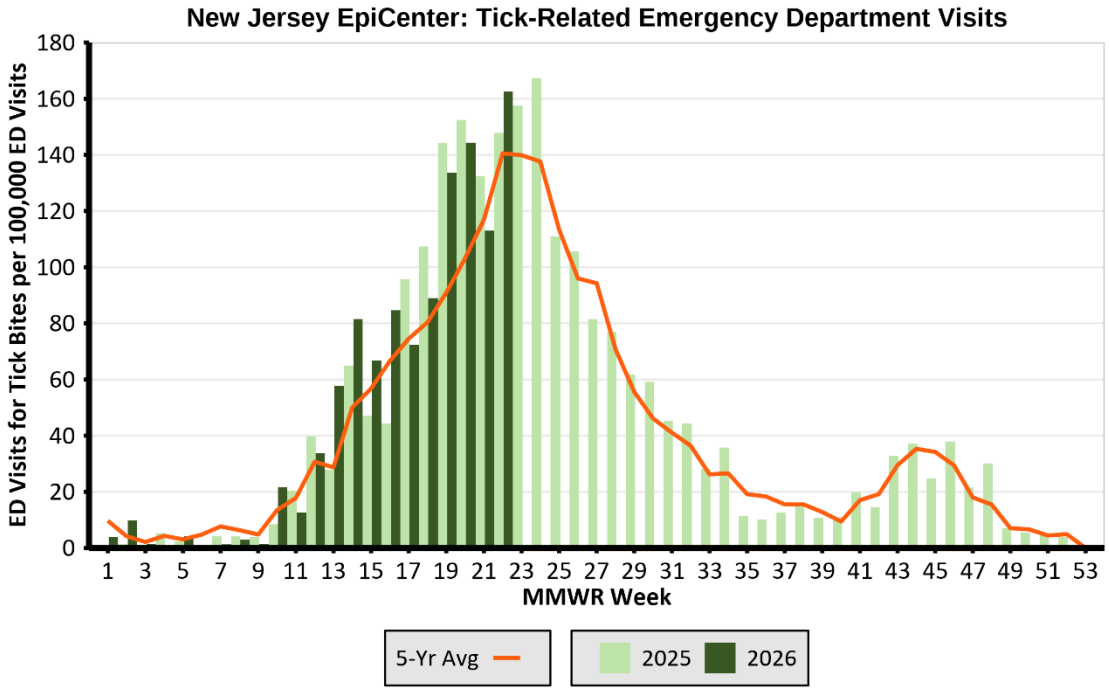
- There have been 2,273 cases of Lyme disease reported in NJ in 2026.
- The number of cases in week 22 is higher compared to the previous week and is above the four-year average.
- The largest number of Lyme disease cases has been reported in the northwestern part of the state (Hunterdon, and Morris counties) as well as in Ocean County.





Tick-related Emergency Department Visits

The chart below represents NJ residents seen at emergency departments with a tick-bite complaint or signs/symptoms associated with a reported tick bite relative to total ED visits. The number of tick-related emergency department visits increased in week 22 and is above the 5-year average.



For more information

- NJDOH Communicable Disease Service: https://www.nj.gov/health/cd/topics/vectorborne.shtml
- New Jersey Vector-borne Disease Dashboard: https://www.nj.gov/health/cd/topics/vector_borne_disease_data_dashboard.shtml
- New Jersey Arboviral Activity Maps: http://bit.ly/JerseySurv
- NJDEP Office of Mosquito Control Coordination: https://www.nj.gov/dep/mosquito/
- NJDA Division of Animal Health: https://www.nj.gov/agriculture/divisions/ah/