

Vector-borne Surveillance Report

CDC Week 27: July 5 - 11, 2026

Highlights:

- **Thirty additional mosquito pools tested positive for West Nile Virus (WNV) since last week's report. Eighty-four mosquitoes have tested positive to date in 2026 from twelve counties.**
- **The average number of Culex mosquitoes, which are associated with WNV transmission, was highest in Hudson and Salem 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 this week increased and is similar to historical averages.**
- **The number of tick-related emergency department visits decreased this week and is below 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	2	10	Alpha-Gal Syndrome	190	516
Dengue	6	14	Anaplasmosis	110	312
Malaria	37	89	Babesiosis	45	372
West Nile	-	23	Ehrlichiosis	39	98
Eastern Equine Encephalitis	-	-	Hard Tick Relapsing Fever	1	14
Jamestown Canyon	-	-	Lyme Disease	3336	6597
Zika	-	-	Powassan	-	2
			Spotted Fever Group Rickettsioses	8	25
			Tularemia	1	1

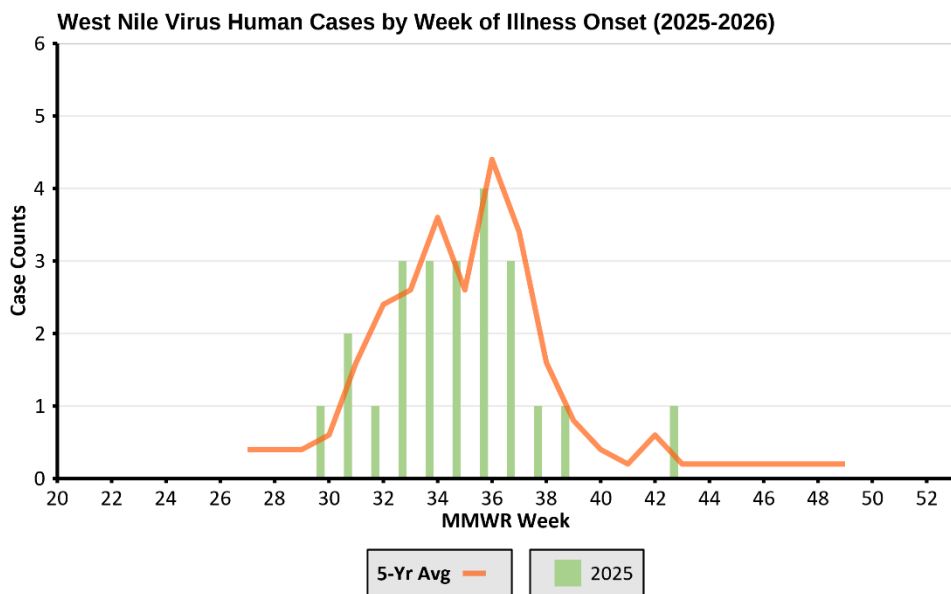
Mosquito-borne Disease Activity

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 July 16, 2026 at 12:00 pm.

West Nile Virus

- There have been no human or animal cases of WNV reported in NJ in 2026. In 2025, the earliest human case was reported in Week 30.
- State mosquito surveillance and testing started May 18th, although some counties collected "early season" samples (402 mosquito pools collected prior to week 20). All 21 counties have submitted mosquitoes for testing in 2026 and out of 3,870 pools tested, 84 have tested positive for WNV in twelve counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (82) and *Aedes japonicus* (2) mosquitoes.

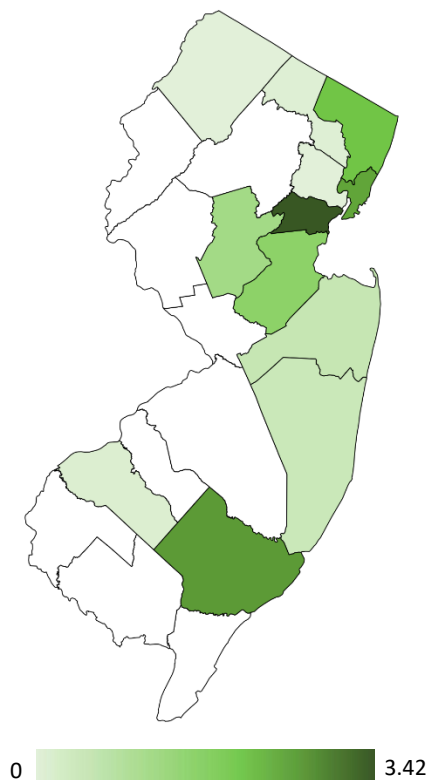


WNV Human Activity				
County	Cases		PVD*	
	2026	2025	2026	2025
Atlantic		2		
Bergen		2		
Burlington		2		2
Camden		1		
Cape May				
Cumberland				
Essex		1		
Gloucester		1		
Hudson		1		
Hunterdon				
Mercer		1		
Middlesex		4		2
Monmouth		2		
Morris		2		
Ocean				
Passaic		1		
Salem				
Somerset				
Sussex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

*Positive Viremic Donors

WNV Mosquito Pool Testing						
County	WEEK 27 Positive Pools		Cumulative Pos. Total (WEEK 27)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025		
Union	1	4	11	6	81	3.42
Atlantic	9	-	14	-	191	2.73
Hudson	1	3	10	4	94	2.60
Bergen	4	5	21	11	194	2.20
Middlesex	3	3	10	4	160	1.72
Somerset	-	-	5	-	119	1.33
Monmouth	-	2	6	2	160	0.74
Ocean	-	-	1	1	159	0.66
Gloucester	-	2	3	7	312	0.36
Passaic	-	2	1	3	132	0.32
Essex	-	1	1	3	220	0.25
Sussex	-	1	1	2	160	0.25
Burlington	-	-	-	1	56	0.00
Camden	-	-	-	-	212	0.00
Cape May	-	-	-	2	600	0.00
Cumberland	-	-	-	-	158	0.00
Hunterdon	-	-	-	-	137	0.00
Mercer	-	-	-	-	131	0.00
Morris	-	2	-	3	209	0.00
Salem	-	-	-	-	205	0.00
Warren	-	-	-	1	180	0.00
Total	18	25	84	50	3870	-

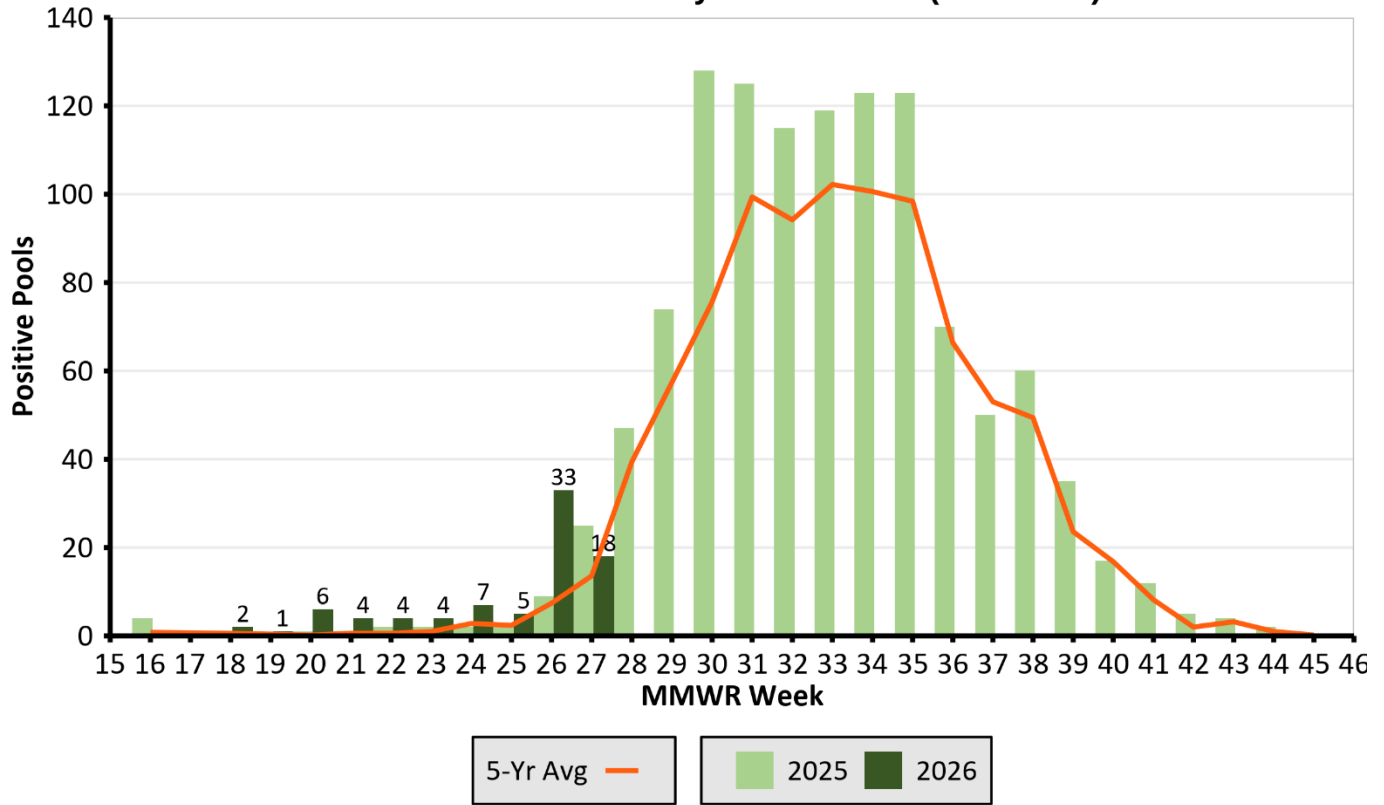
Cumulative WNV MIR, 2026



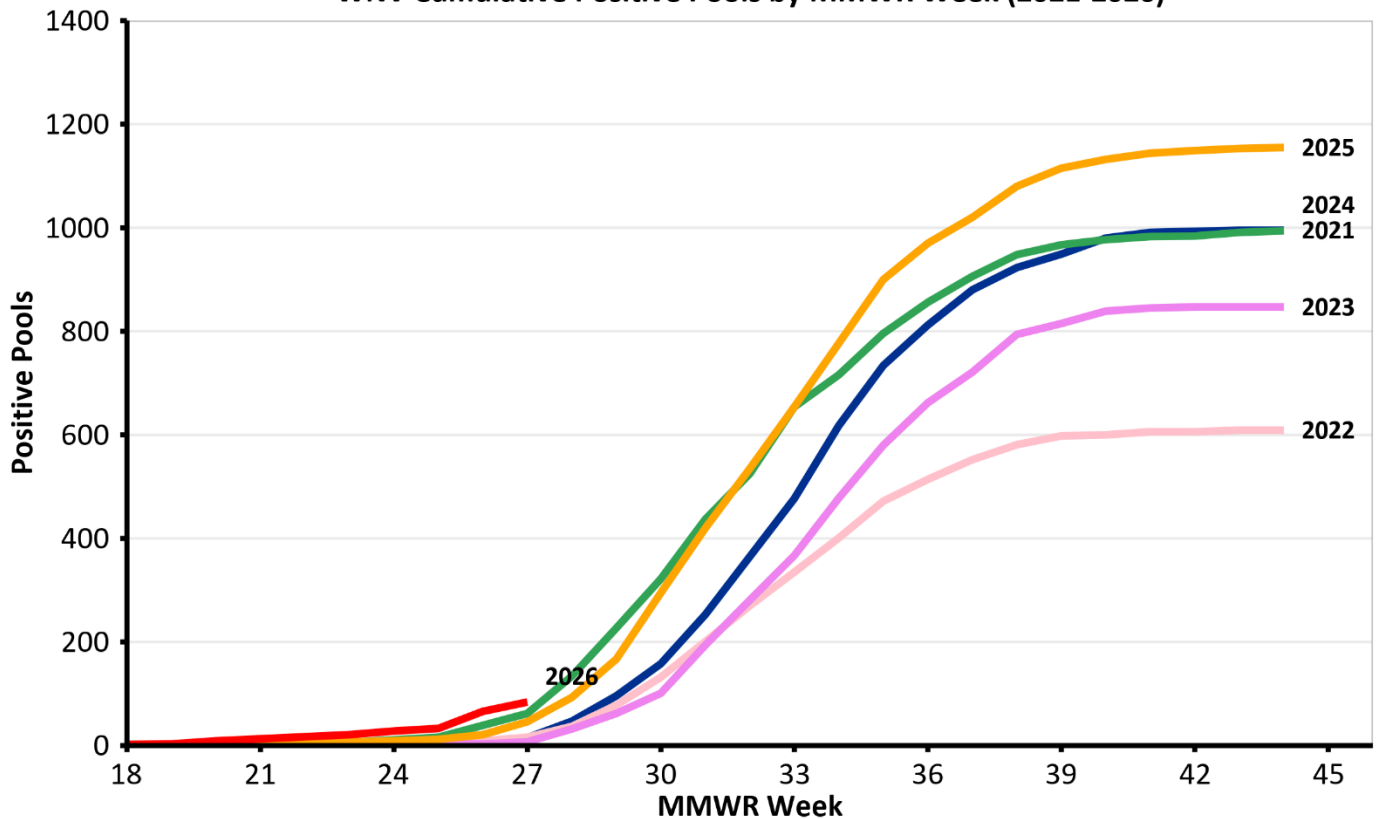
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

WEEK 27: June 29 - July 5, 2025; July 5 - 11, 2026

WNV Positive Pools by MMWR Week (2025-2026)

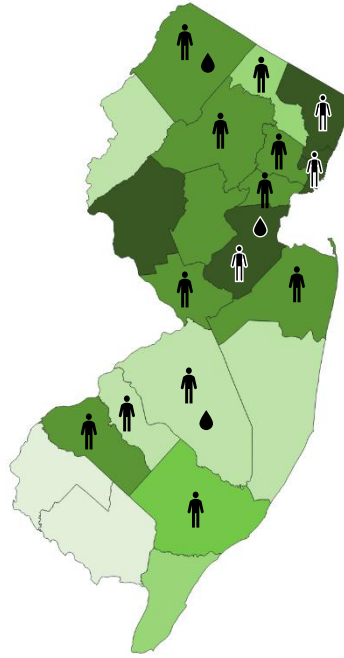
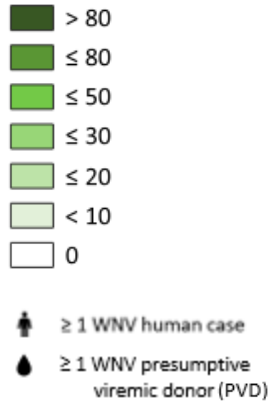


WNV Cumulative Positive Pools by MMWR Week (2021-2026)

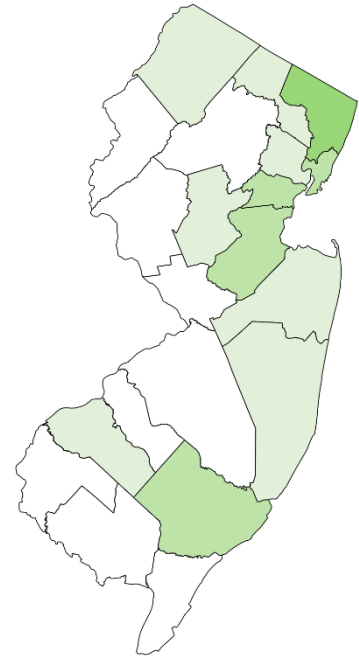


2025 WNV Activity

WNV Positive Pools



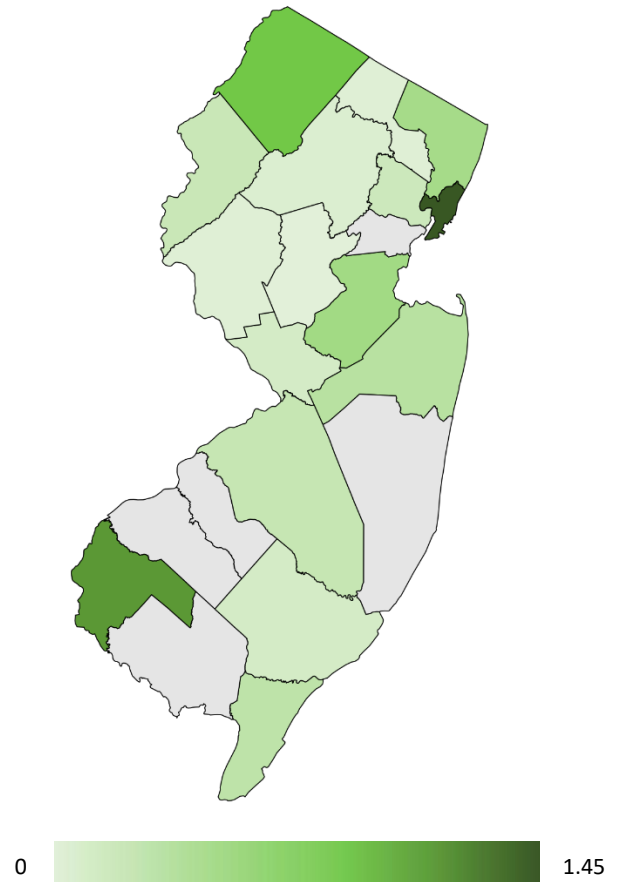
2026 WNV Activity



Average *Culex* Mosquitoes per Trap Night (average mosquito abundance)

County	WEEK 26 - 27 Average Abundance*
Hudson	1.45
Salem	1.16
Sussex	0.90
Middlesex	0.55
Bergen	0.52
Monmouth	0.39
Cape May	0.34
Burlington	0.28
Warren	0.26
Essex	0.24
Mercer	0.18
Atlantic	0.18
Morris	0.12
Hunterdon	0.10
Passaic	0.10
Somerset	0.07
Camden	No available data
Cumberland	No available data
Gloucester	No available data
Ocean	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 26 – 27*



* 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.

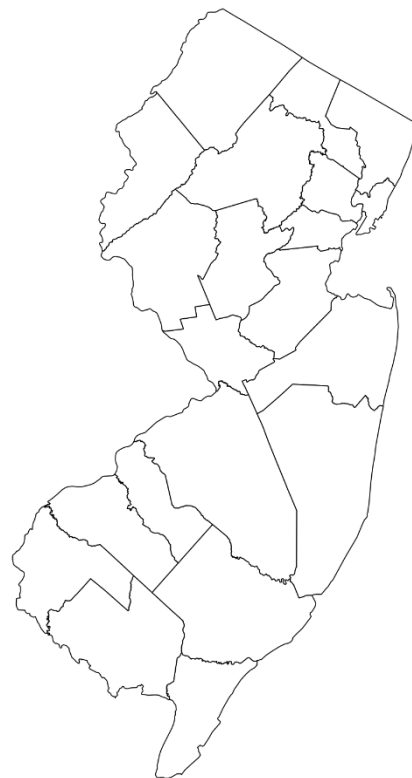
Eastern Equine Encephalitis

- 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 3,836 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						
County	WEEK 27 Positive Pools		Cumulative Pos. Total (WEEK 27)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Atlantic	-	-	-	-	191	0.00
Bergen	-	-	-	-	194	0.00
Burlington	-	-	-	-	56	0.00
Camden	-	-	-	-	210	0.00
Cape May	-	-	-	-	600	0.00
Cumberland	-	-	-	-	158	0.00
Essex	-	-	-	-	220	0.00
Gloucester	-	-	-	-	288	0.00
Hudson	-	-	-	-	94	0.00
Hunterdon	-	-	-	-	136	0.00
Mercer	-	-	-	-	131	0.00
Middlesex	-	-	-	-	160	0.00
Monmouth	-	-	-	-	160	0.00
Morris	-	-	-	-	209	0.00
Ocean	-	-	-	-	158	0.00
Passaic	-	-	-	-	132	0.00
Salem	-	-	-	-	205	0.00
Somerset	-	-	-	-	119	0.00
Sussex	-	-	-	-	160	0.00
Union	-	-	-	-	81	0.00
Warren	-	-	-	-	174	0.00
Total	0	0	0	0	3836	-

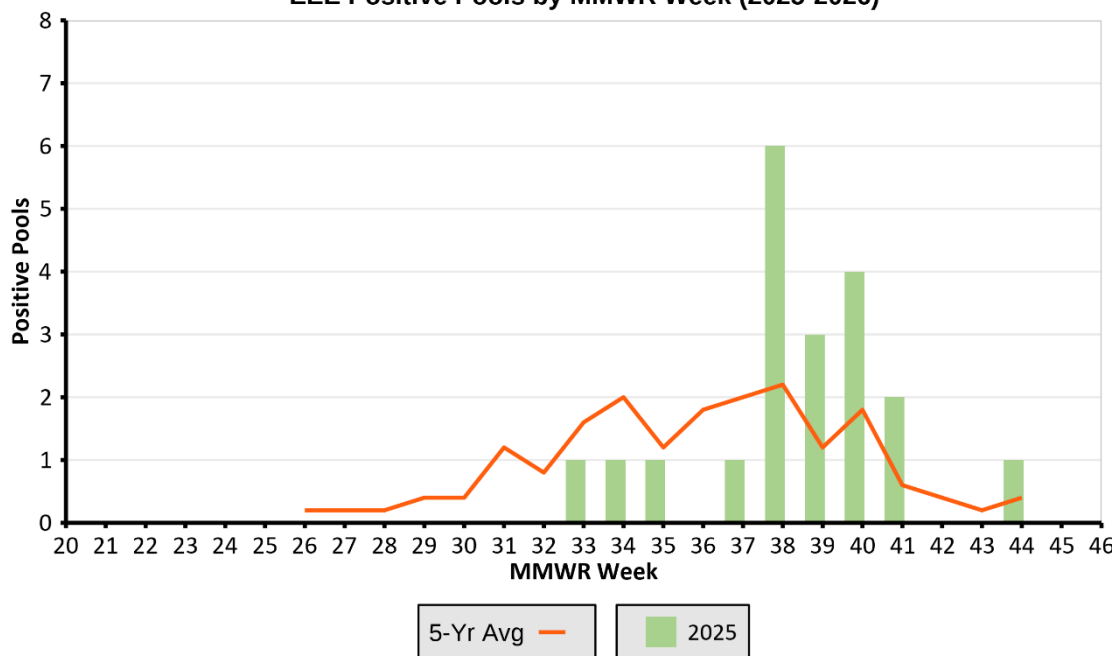
WEEK 27: June 29 - July 5, 2025; July 5 - 11, 2026

Cumulative EEE MIR, 2026



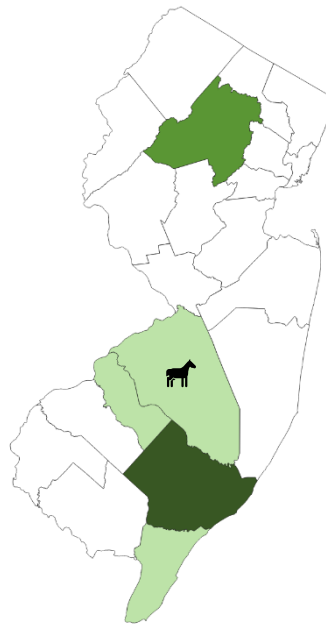
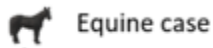
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EEE Positive Pools by MMWR Week (2025-2026)

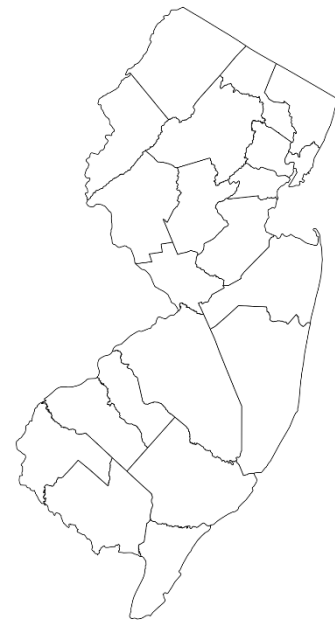


2025 EEE Activity

EEE Positive Pools



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 3,836 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

County	WEEK 27 Positive Pools		Cumulative Pos. Total (WEEK 27)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Atlantic	-	-	-	-	191	0.00
Bergen	-	-	-	-	194	0.00
Burlington	-	-	-	-	56	0.00
Camden	-	-	-	-	210	0.00
Cape May	-	-	-	-	600	0.00
Cumberland	-	-	-	-	158	0.00
Essex	-	-	-	-	220	0.00
Gloucester	-	-	-	-	288	0.00
Hudson	-	-	-	-	94	0.00
Hunterdon	-	-	-	-	136	0.00
Mercer	-	-	-	-	131	0.00
Middlesex	-	-	-	-	160	0.00
Monmouth	-	-	-	-	160	0.00
Morris	-	-	-	-	209	0.00
Ocean	-	-	-	-	158	0.00
Passaic	-	-	-	-	132	0.00
Salem	-	-	-	-	205	0.00
Somerset	-	-	-	-	119	0.00
Sussex	-	-	-	-	160	0.00
Union	-	-	-	-	81	0.00
Warren	-	-	-	-	174	0.00
Total	0	0	0	0	3836	-

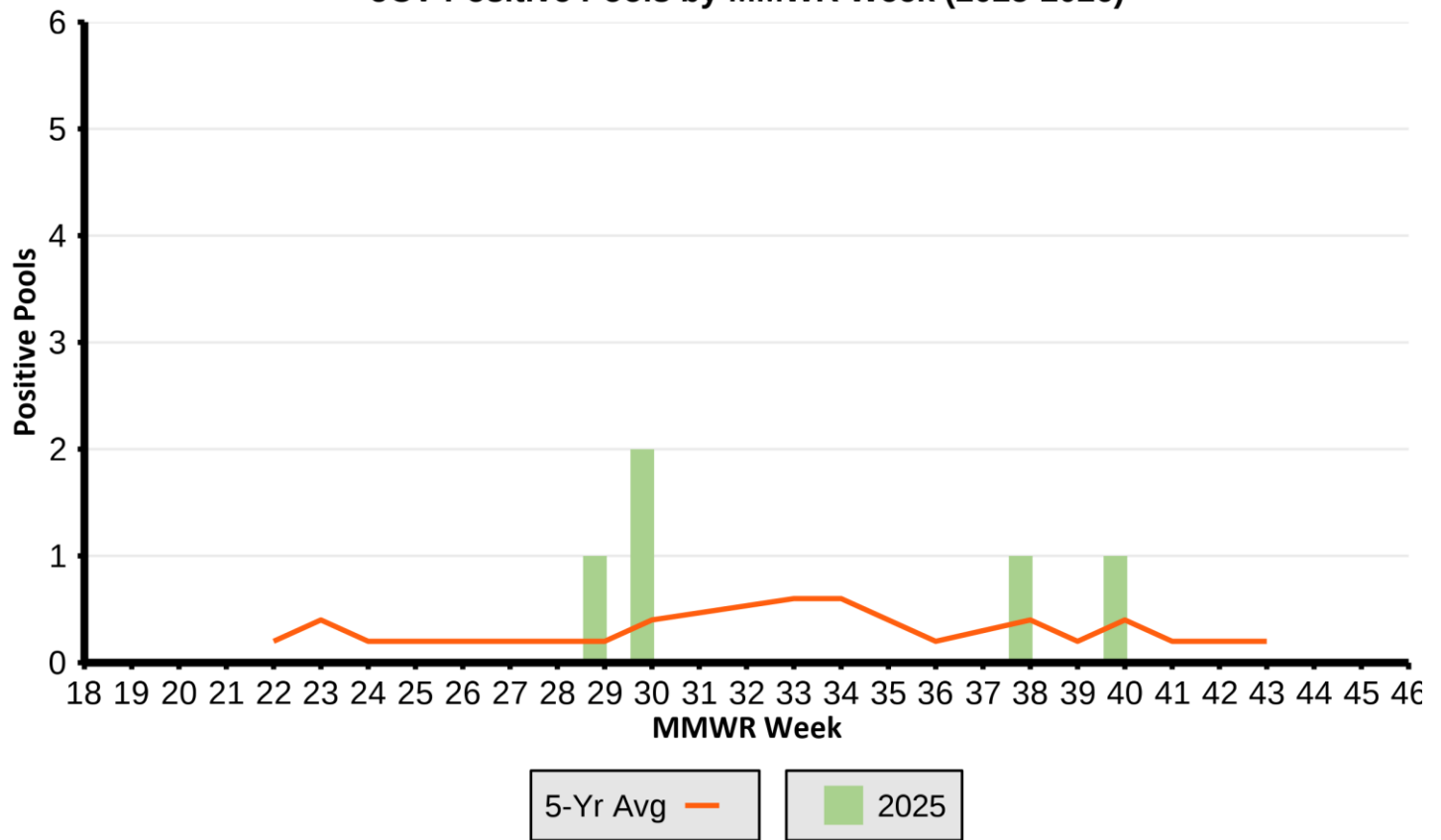
Cumulative JCV MIR, 2026



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

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JCV Positive Pools by MMWR Week (2025-2026)



2025 JCV Activity

2026 JCV Activity

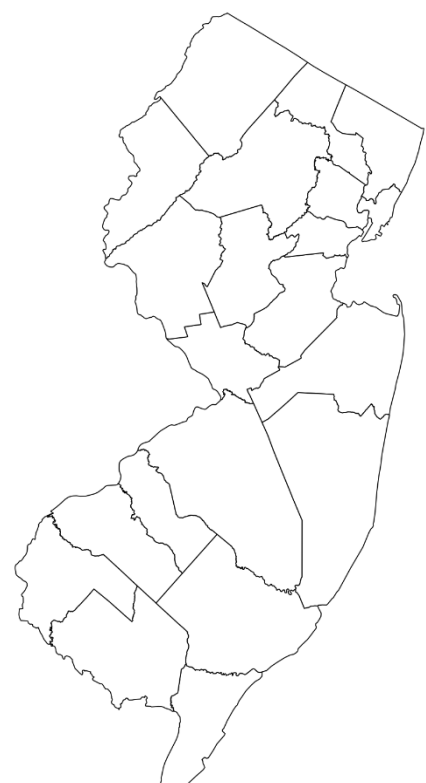
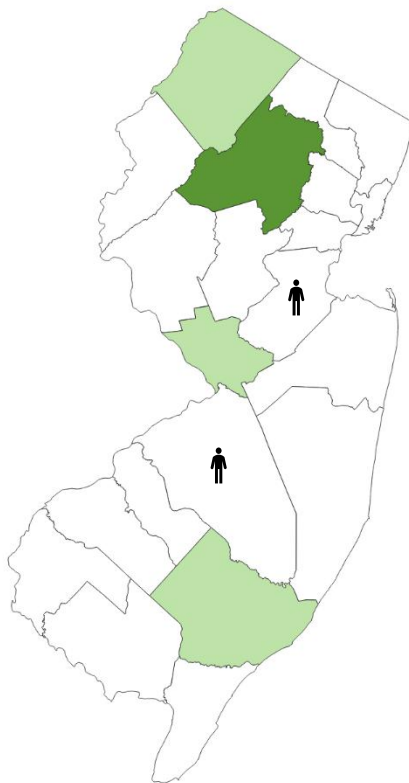
JCV Positive Pools

≥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 8 counties have been tested for La Crosse encephalitis with no positive results.
- Mosquito pools in 3 counties have been tested for Chikungunya, Dengue, and Zika viruses with no positive results.

Cumulative 2026 Mosquito Pool Testing (Other Viruses ^a)										
County	SLE		LAC		CHIKV		DENV		ZIKV	
	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	191									
Bergen	194									
Burlington	56									
Camden	210		2		2		2		2	
Cape May	600									
Cumberland	158									
Essex	220									
Gloucester	288		42		13		13		13	
Hudson	94									
Hunterdon	136		1							
Mercer	131									
Middlesex	160				3		3		3	
Monmouth	160									
Morris	209									
Ocean	158		1							
Passaic	132		9							
Salem	205		12							
Somerset	119									
Sussex	160		12							
Union	81									
Warren	174		6							
Total	3836	0	85	0	18	0	18	0	18	0

^a St. Louis virus (SLE), La Crosse encephalitis (LAC), Chikungunya virus (CHIKV), Dengue virus (DENV), Zika Virus (ZIKV)

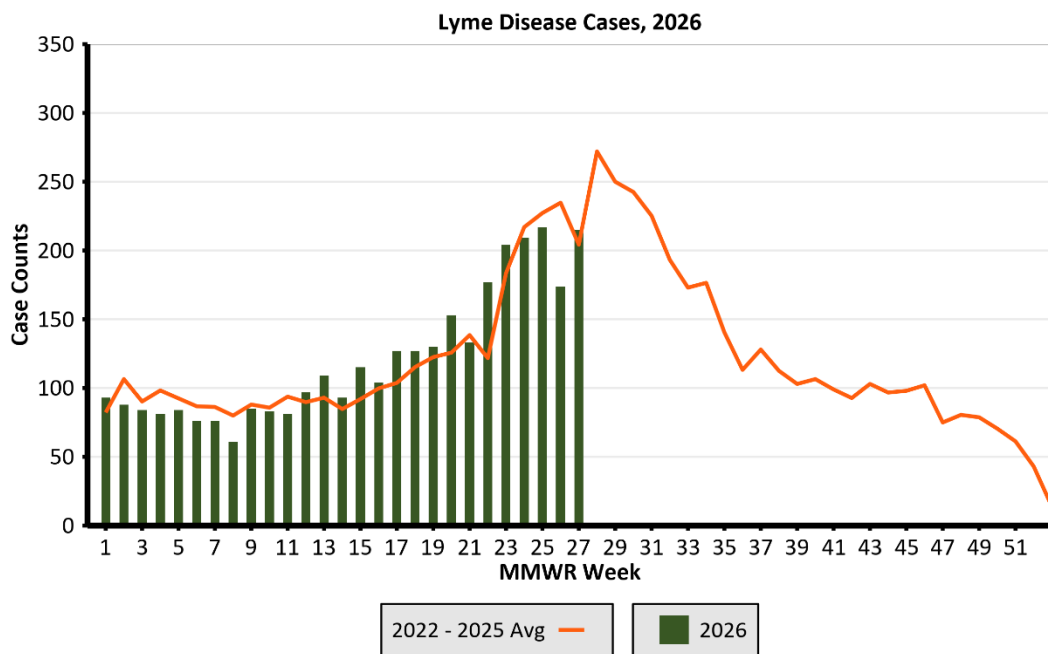
Numbers in white columns represent number of pools tested to date in 2026

Number in green shaded columns represent positive pools in 2026

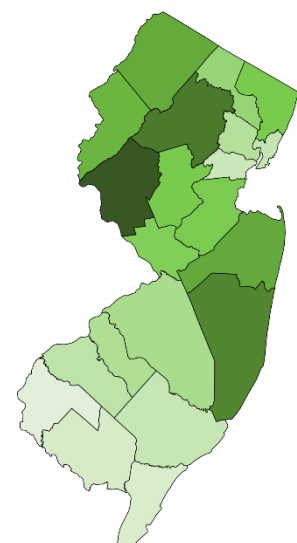
Tickborne Disease Activity

Lyme Disease

- There have been 3,336 cases of Lyme disease reported in NJ in 2026.
- The number of cases in week 27 is higher compared to the previous week and is level with 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.



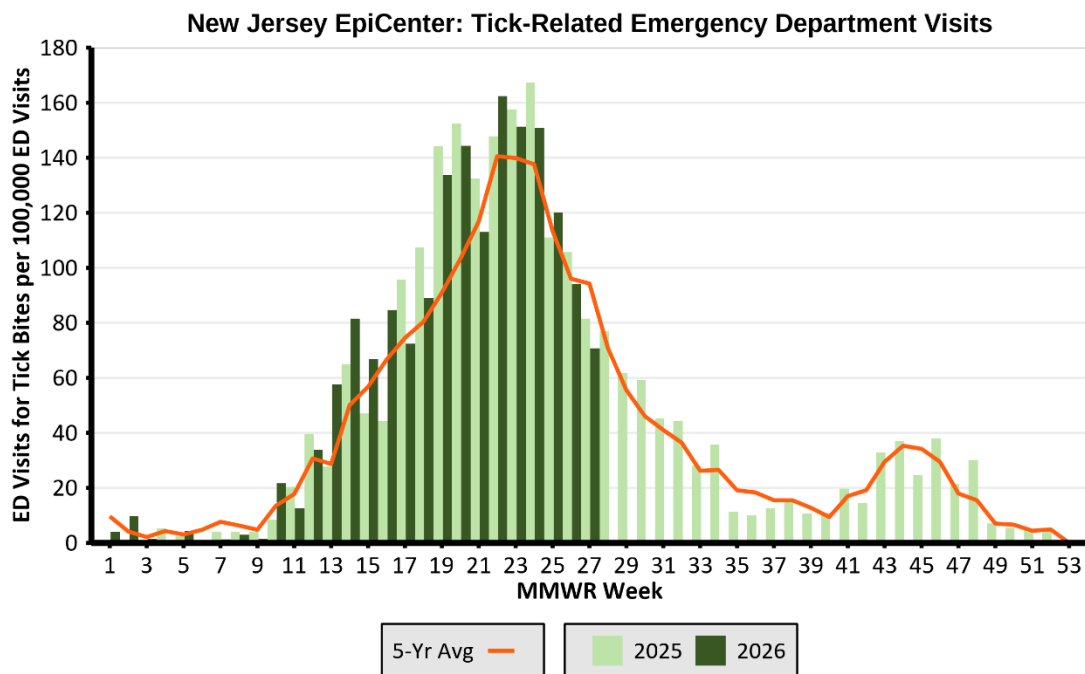
Lyme Disease Cases, 2026



0 346

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 decreased in week 27 and is below 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/>