Vector-borne Surveillance Report

CDC Week 41: Oct 11 - 17, 2026

Highlights:

- ***New Jersey is reporting one additional West Nile Virus (WNV) case this week and one additional presumptive viremic donor (PVD). To date, there have been 34 reported WNV cases, including three deaths, and six reported PVDs. WNV cases have been reported in 15 counties with the highest number reported in Camden (6), Monmouth (6), and Mercer (4) counties.***
- ***Since last week's report, 27 additional mosquito pools tested positive for WNV, for a total of 1,289 positive pools, which is higher than historical trends. The average number of Culex mosquitoes, which are associated with WNV transmission, is highest in Bergen County.***
- ***To date, one mosquito pool has tested positive for Eastern Equine Encephalitis (EEE), seven pools for JCV, and one pool for La Crosse virus (LAC).***
- ***The number of tick-related emergency department visits increased this week and is higher than historical averages. Increases are expected to continue in the coming weeks when adult blacklegged ticks are active.***

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	527	551
Dengue	23	14	Anaplasmosis	214	312
Malaria	66	89	Babesiosis	175	373
West Nile	34	23	Ehrlichiosis	100	98
Zika	1	-	Hard Tick Relapsing Fever	6	14
Eastern Equine Encephalitis	-	-	Lyme Disease	5504	6596
Jamestown Canyon	-	-	Powassan	-	2
			Spotted Fever Group Rickettsioses	33	25
			Tularemia	3	1

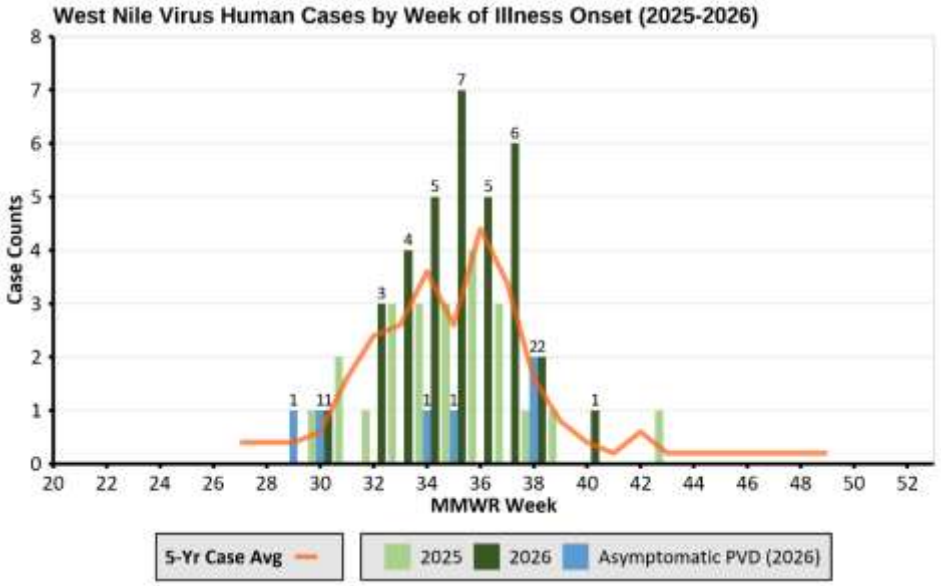
Mosquito-borne Disease Activity

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 October 22, 2026, at 12:00 pm.

West Nile Virus

- Thirty-four human cases of WNV have been reported in 2026 from fifteen counties and six PVD cases have been reported from five counties. There have been no animal cases of WNV reported in 2026.
- State mosquito surveillance and testing started May 18th, although some counties collected "early season" samples (403 mosquito pools collected prior to week 20). Out of 11,439 pools tested, 1,289 have tested positive for WNV in 21 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (1,068), *Cx. pipiens* (76), *Aedes albopictus* (55), *Ae. japonicus* (35), *Cx. restuans* (15), *Ae. triseriatus* (9), *Anopheles punctipennis* (7), *Culiseta melanura* (7), *Ae. vexans* (4), *An. quadrimaculatus* s.l. (2), *Cx. erraticus* (2), *Cx. salinarius* (2), *Cx. territans* (2), *Ae. stricticus* (1), *Ae. taeniorhynchus* (1), *An. bradleyi* (1), *Coquillettidia perturbans* (1), and *Psorophora ciliata* (1) mosquitoes.



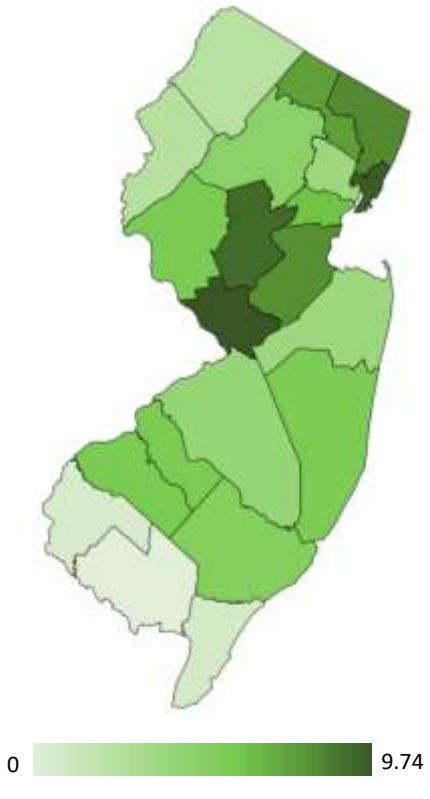
WNV Human Activity				
	Cases		PVD*	
County	2026	2025	2026	2025
Camden	6	1	1	
Monmouth	6	2		
Mercer	4	1	2	
Atlantic	2	2		
Essex	2	1		
Hudson	2	1		
Middlesex	2	4	1	2
Ocean	2		1	
Passaic	2	1		
Bergen	1	2	1	
Burlington	1	2		2
Gloucester	1	1		
Somerset	1			
Union	1	2		
Warren	1			
Cape May				
Cumberland				
Hunterdon				
Morris		2		
Salem				
Sussex		1		1
Total	34	23	6	5

*Asymptomatic Presumptive Viremic Donors

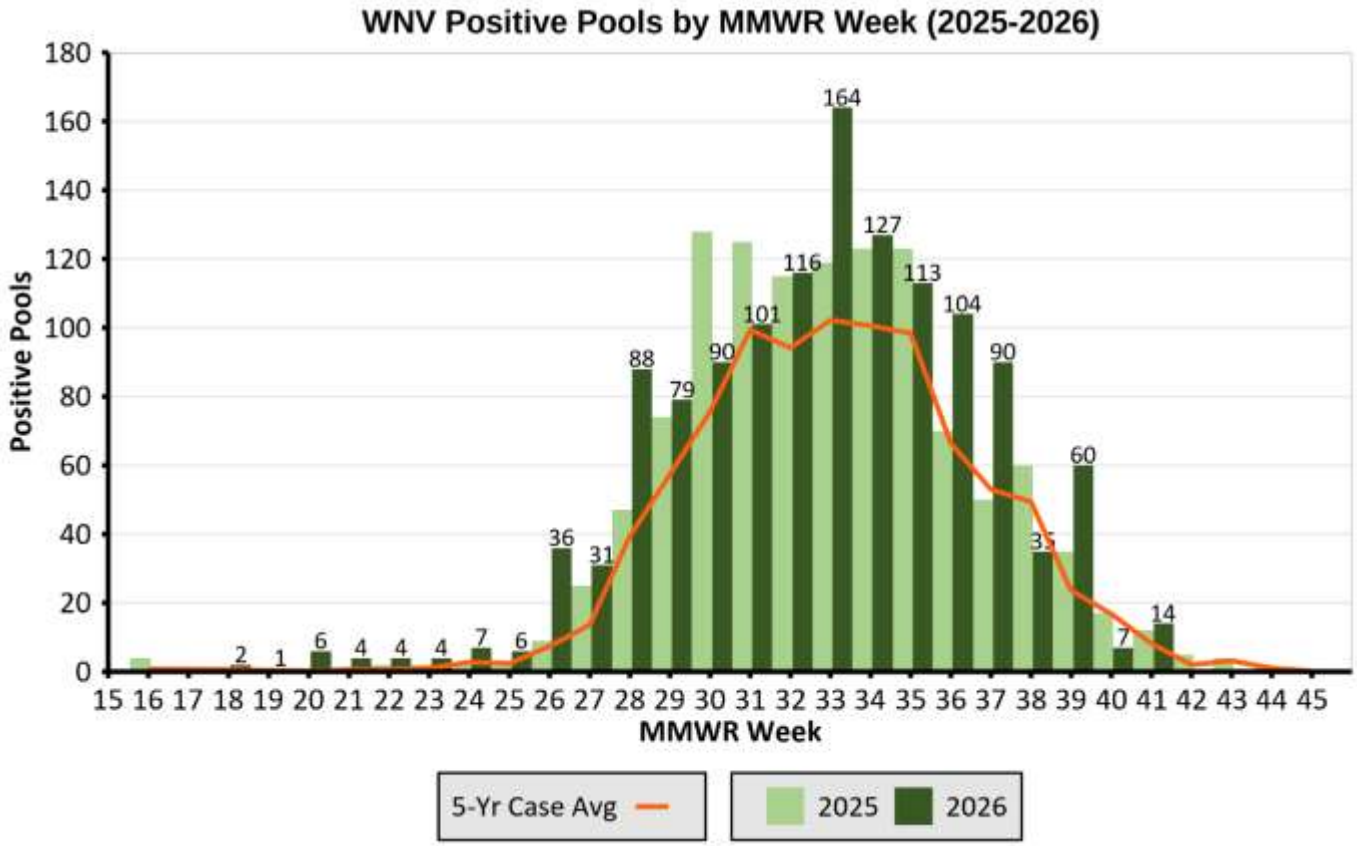
WNV Mosquito Pool Testing						
	WEEK 41 Positive Pools		Cumulative Pos. Total (WEEK 41)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Mercer	-	-	56	65	372	9.74
Hudson	4	-	122	82	329	9.52
Somerset	-	2	71	64	328	9.14
Bergen	3	3	211	212	480	8.22
Middlesex	-	2	107	106	434	8.03
Passaic	-	-	58	21	388	7.50
Union	-	-	52	70	235	6.20
Gloucester	-	-	96	65	827	5.66
Hunterdon	2	1	79	81	354	5.62
Ocean	-	1	23	14	475	5.58
Camden	-	-	39	18	647	5.57
Atlantic	2	1	57	43	513	5.17
Morris	-	-	53	61	483	4.86
Burlington	3	-	37	19	391	4.24
Monmouth	-	1	69	54	440	3.94
Essex	-	-	29	59	467	3.93
Warren	-	-	34	16	451	2.63
Sussex	-	-	35	58	522	2.60
Cape May	-	1	50	29	2339	1.16
Salem	-	-	9	7	549	1.02
Cumberland	-	-	2	4	415	0.51
Total	14	12	1289	1148	11439	-

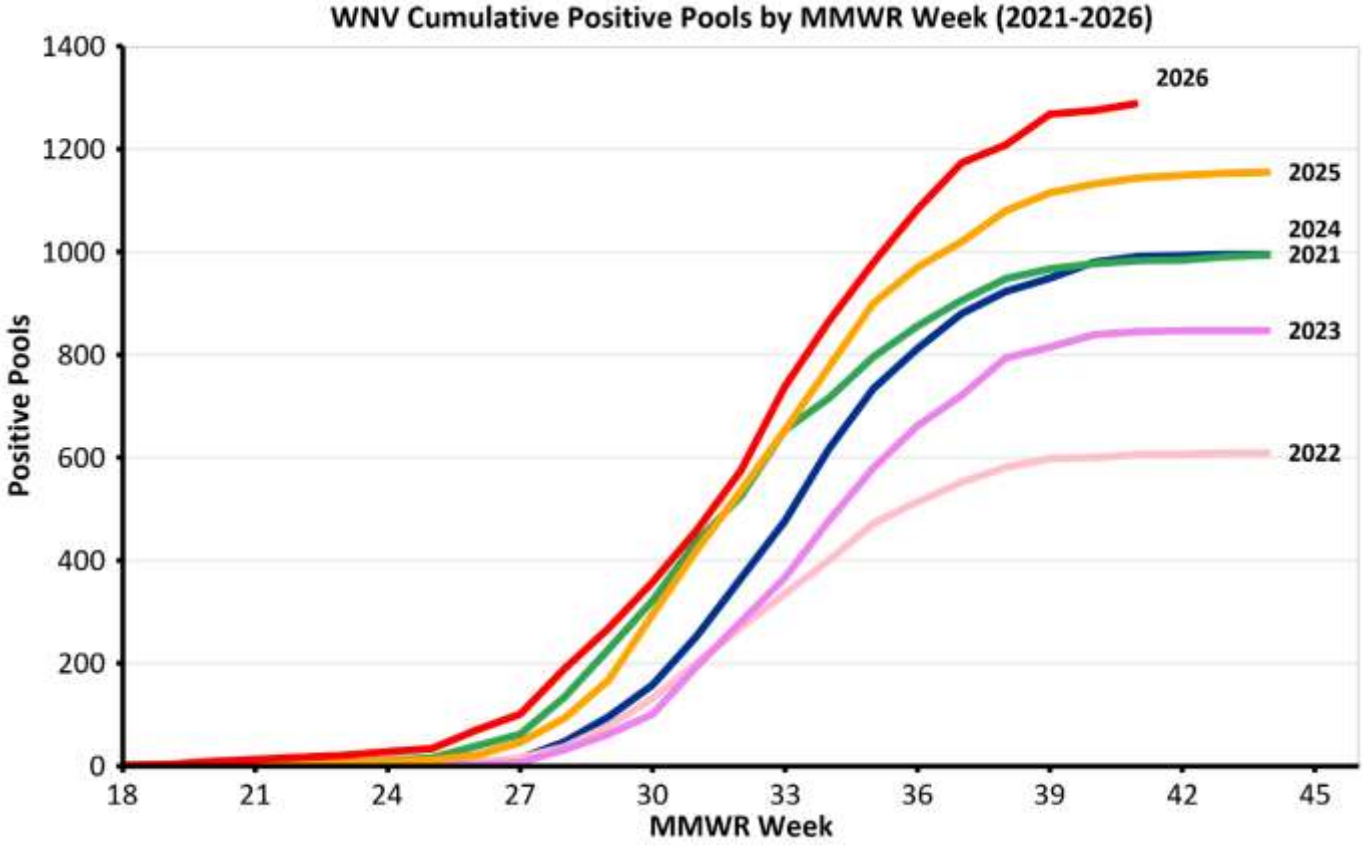
WEEK 41: Oct 5 - 11, 2025; Oct 11 - 17, 2026

Cumulative WNV MIR, 2026

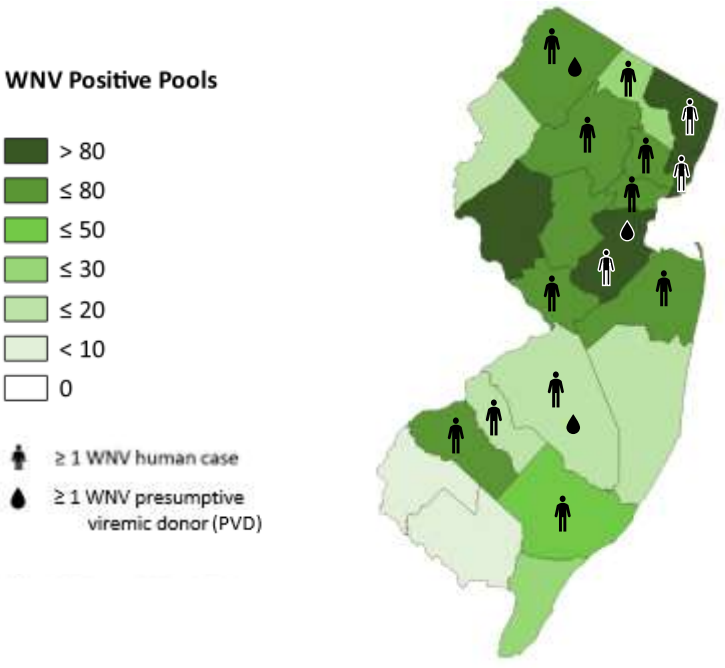


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

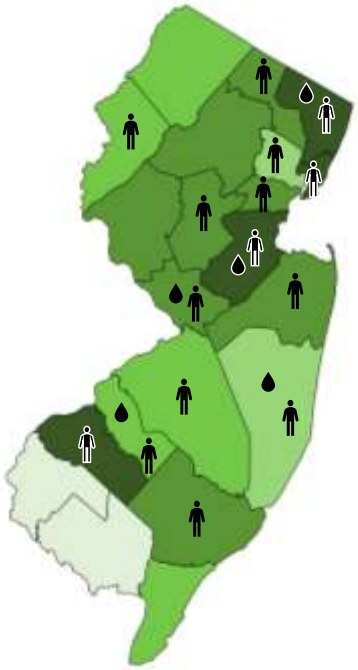

WNV Positive Pools by MMWR Week (2025-2026)
Positive Pools
MMWR Week
5-Yr Case Avg
2025
2026


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

2025 WNV Activity

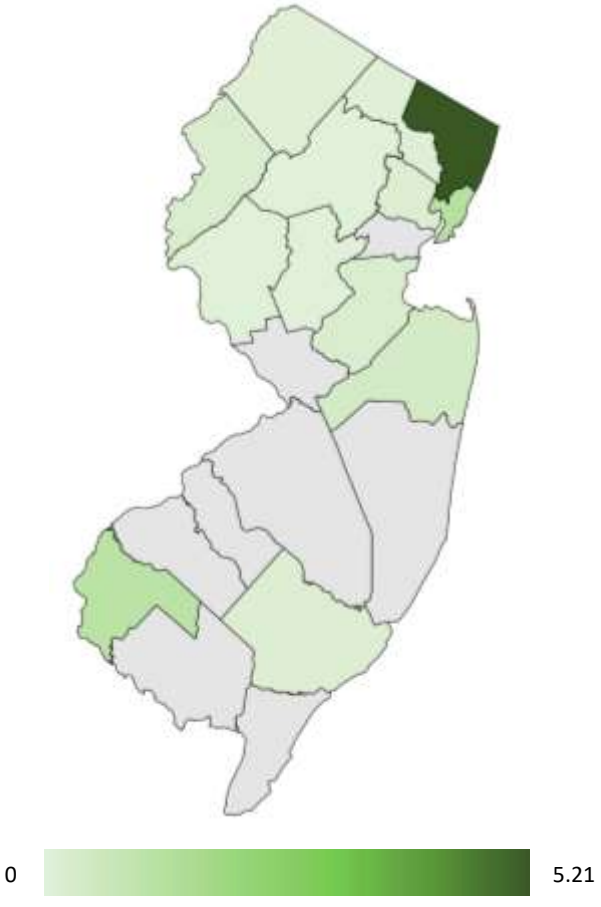


2026 WNV Activity



Average *Culex* Mosquitoes per Trap Night (average mosquito abundance)	
County	WEEK 40 - 41 Average Abundance*
Bergen	5.21
Hudson	1.22
Salem	1.08
Monmouth	0.37
Warren	0.23
Middlesex	0.22
Essex	0.14
Atlantic	0.13
Sussex	0.07
Passaic	0.05
Morris	0.03
Hunterdon	0.02
Somerset	0.00
Burlington	No available data
Camden	No available data
Cape May	No available data
Cumberland	No available data
Gloucester	No available data
Mercer	No available data
Ocean	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 40 – 41[*]



[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 11,276 mosquito pools tested for EEE, one pool tested positive from Cape May County in week 35. EEE was detected in *An. punctipennis* mosquitoes.
- In 2025, the first EEE positive pool was detected in week 33 in Atlantic County.

EEE Mosquito Pool Testing

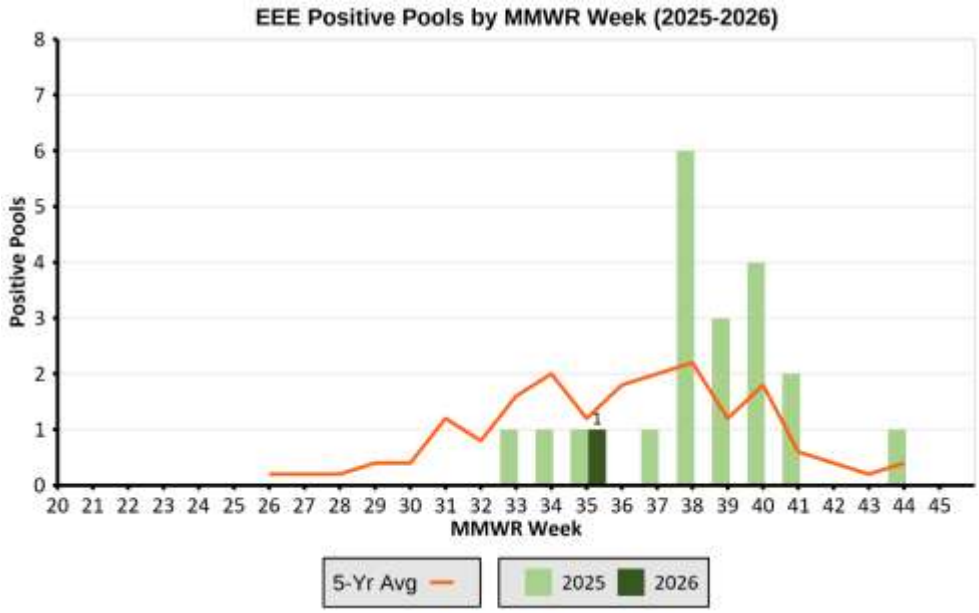
	WEEK 41 Positive Pools		Cumulative Pos. Total (WEEK 41)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Cape May	-	-	1	2	2339	0.02
Atlantic	-	-	-	11	513	0.00
Bergen	-	-	-	-	480	0.00
Burlington	-	-	-	1	387	0.00
Camden	-	-	-	2	645	0.00
Cumberland	-	-	-	-	415	0.00
Essex	-	-	-	-	467	0.00
Gloucester	-	-	-	-	803	0.00
Hudson	-	-	-	-	329	0.00
Hunterdon	-	-	-	-	347	0.00
Mercer	-	-	-	-	372	0.00
Middlesex	-	-	-	-	431	0.00
Monmouth	-	-	-	-	440	0.00
Morris	-	2	-	3	483	0.00
Ocean	-	-	-	-	469	0.00
Passaic	-	-	-	-	388	0.00
Salem	-	-	-	-	548	0.00
Somerset	-	-	-	-	328	0.00
Sussex	-	-	-	-	440	0.00
Union	-	-	-	-	235	0.00
Warren	-	-	-	-	417	0.00
Total	0	2	1	19	11276	-

WEEK 41: Oct 5 - 11, 2025; Oct 11 - 17, 2026

Cumulative EEE MIR, 2026

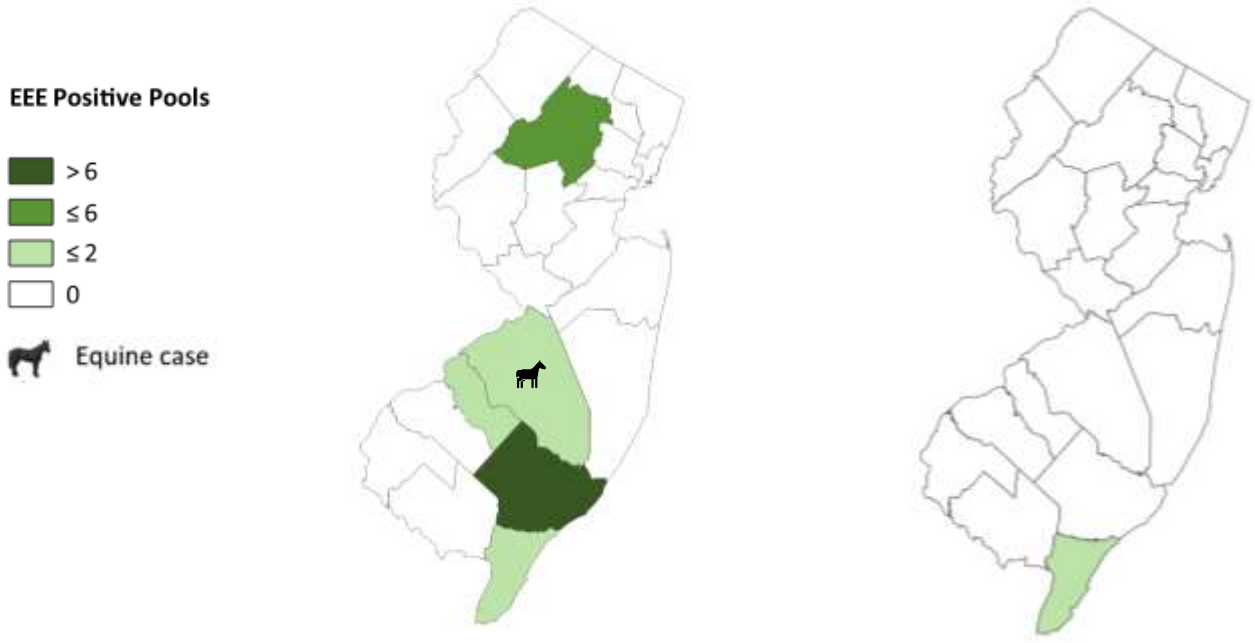


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000



2025 EEE Activity

2026 EEE Activity



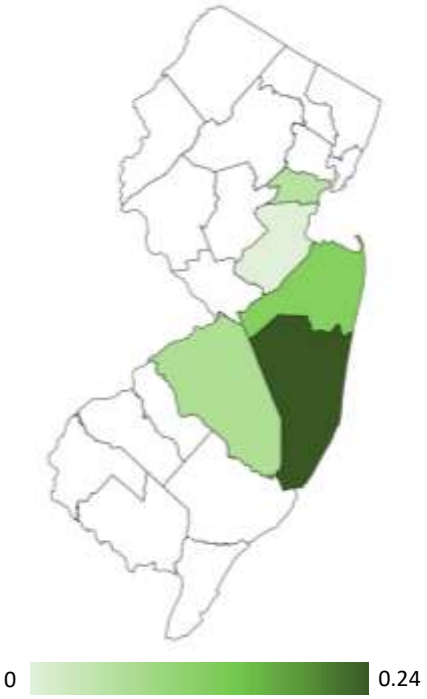
Jamestown Canyon Virus

- 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 11,276 mosquito pools from 21 counties tested for JCV, seven pools were positive in Monmouth (3), Burington, Middlesex, Ocean, and Union counties. JCV was detected in *Ps. columbiae* (3), *Ae. albopictus* (1), *Ae. atlanticus/tormentor* (1), *Ae. sollicitans* (1), and *Cx. pipiens/restuans/salinarius* (1) mosquitoes.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

JCV Mosquito Pool Testing

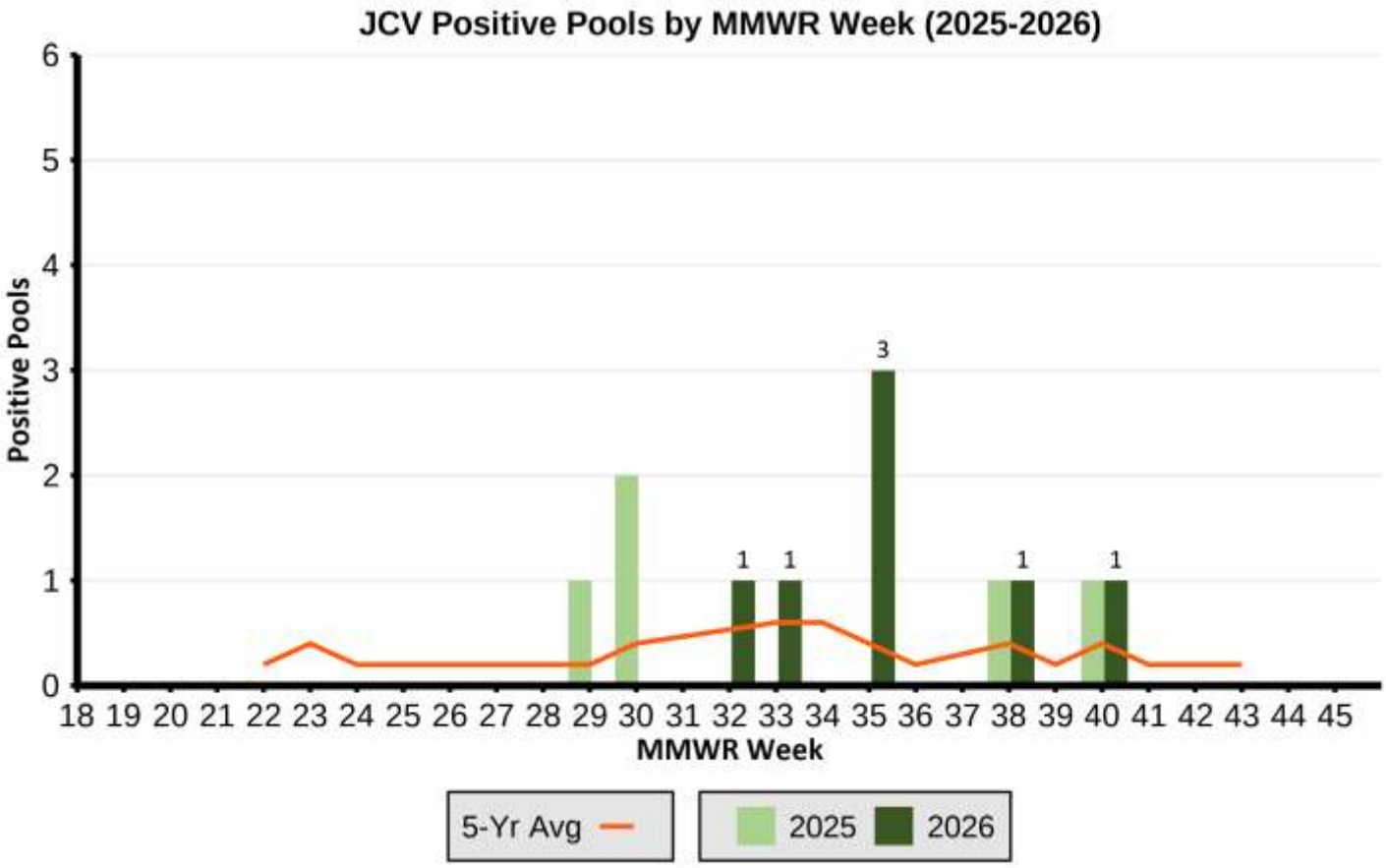
	WEEK 41 Positive Pools		Cumulative Pos. Total (WEEK 41)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Ocean	-	-	1	-	469	0.24
Monmouth	-	-	3	-	440	0.17
Union	-	-	1	-	235	0.12
Burlington	-	-	1	-	387	0.12
Middlesex	-	-	1	-	431	0.08
Atlantic	-	-	-	1	513	0.00
Bergen	-	-	-	-	480	0.00
Camden	-	-	-	-	645	0.00
Cape May	-	-	-	-	2339	0.00
Cumberland	-	-	-	-	415	0.00
Essex	-	-	-	-	467	0.00
Gloucester	-	-	-	-	803	0.00
Hudson	-	-	-	-	329	0.00
Hunterdon	-	-	-	-	347	0.00
Mercer	-	-	-	1	372	0.00
Morris	-	-	-	2	483	0.00
Passaic	-	-	-	-	388	0.00
Salem	-	-	-	-	548	0.00
Somerset	-	-	-	-	328	0.00
Sussex	-	-	-	1	440	0.00
Warren	-	-	-	-	417	0.00
Total	0	0	7	5	11276	-

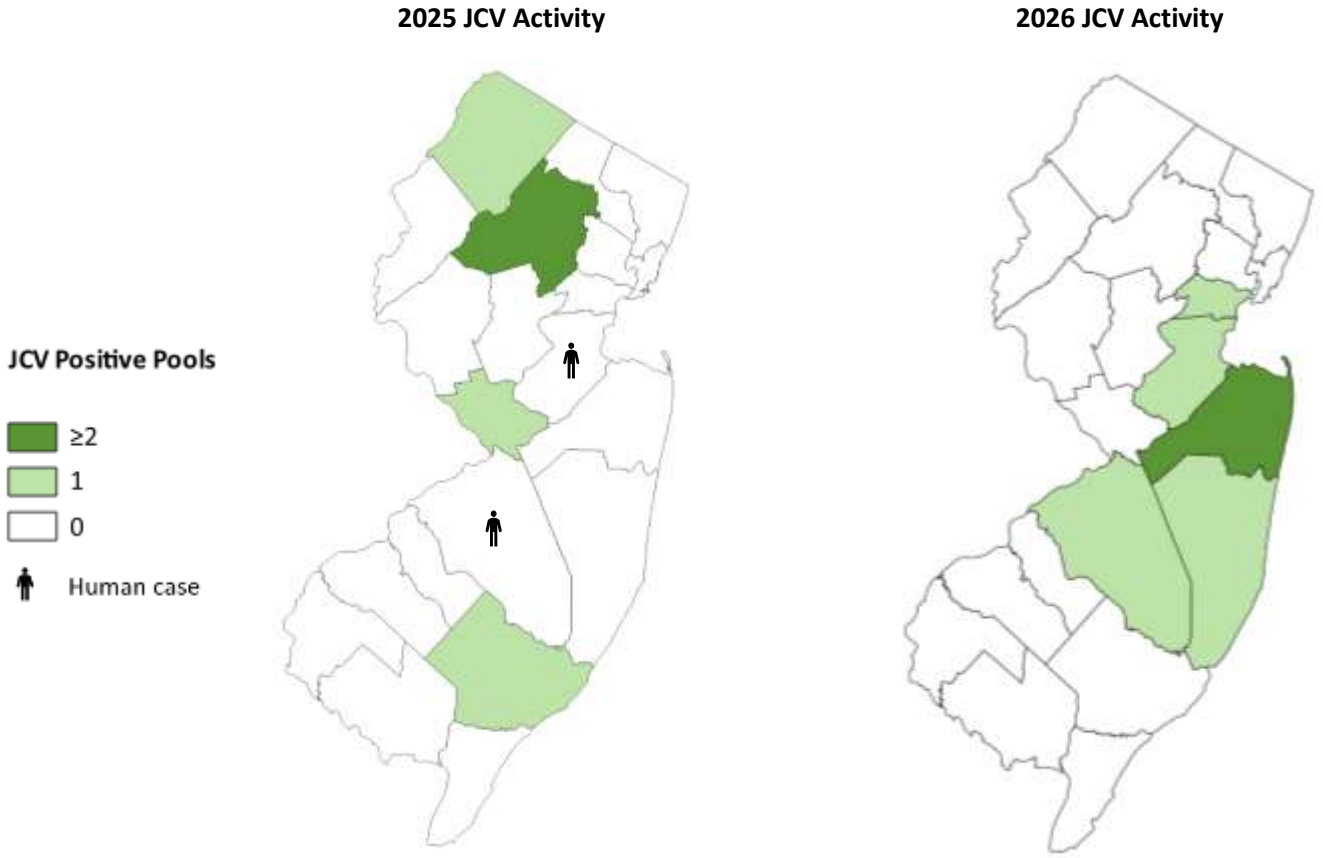
Cumulative JCV MIR, 2026



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

WEEK 41: Oct 5 - 11, 2025; Oct 11 - 17, 2026


JCV Positive Pools by MMWR Week (2025-2026)
Positive Pools
0
1
2
3
4
5
6
1
1
3
1
1
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
MMWR Week
5-Yr Avg
2025
2026


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

Other Mosquito-borne Diseases

- Mosquito pools in selected counties have been tested for St. Louis encephalitis, La Crosse virus, Chikungunya, Dengue, and Zika.
- One mosquito pool was positive for La Crosse virus in Sussex in week 36.

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

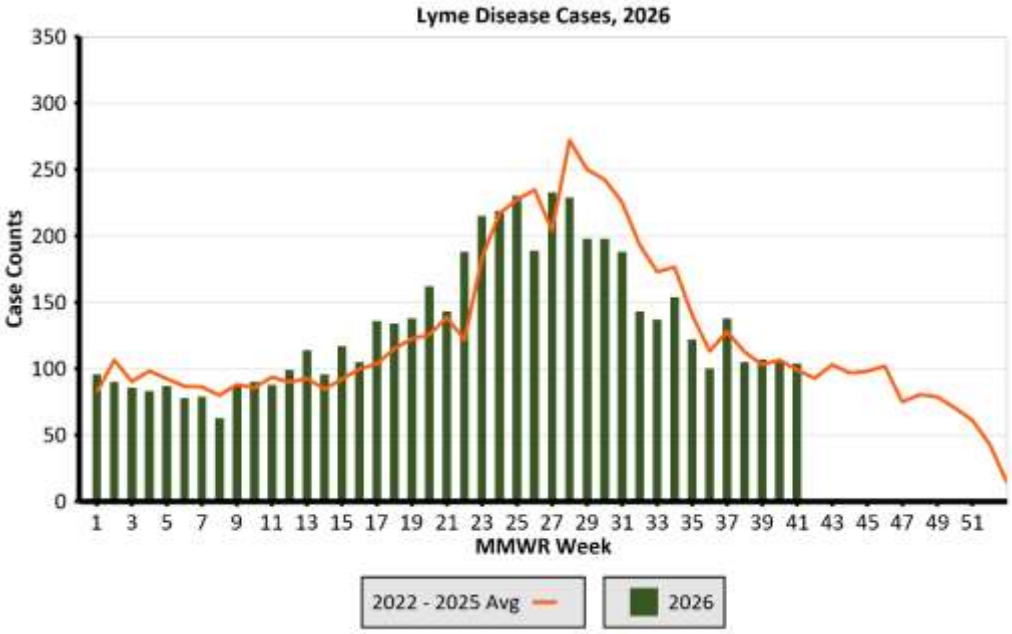
	SLE		LAC		CHIKV		DENV		ZIKV	
County	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	513									
Bergen	480				8		8		8	
Burlington	387		5							
Camden	645		2		18		18		18	
Cape May	2339									
Cumberland	415									
Essex	467									
Gloucester	803		102		97		97		97	
Hudson	329									
Hunterdon	347		7							
Mercer	372				1		1		1	
Middlesex	431		3		23		23		23	
Monmouth	440									
Morris	483				8		8		8	
Ocean	469		8							
Passaic	388		46							
Salem	548		50							
Somerset	328				1		1		1	
Sussex	440		131	1						
Union	235									
Warren	417		35							
Total	**11276**	**0**	**389**	**1**	**156**	**0**	**156**	**0**	**156**	**0**

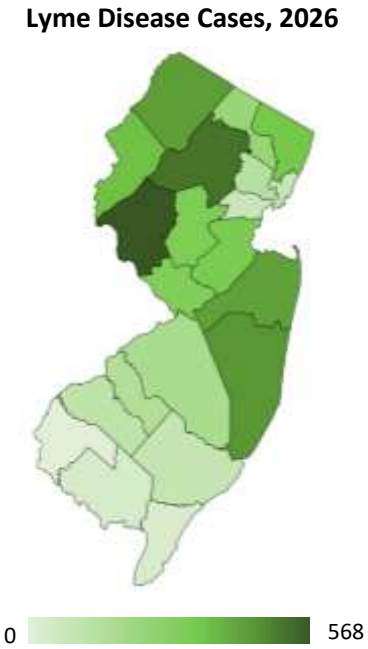
[a] St. Louis virus (SLE), La Crosse encephalitis (LAC), Chikungunya virus (CHIKV), Dengue virus (DENV), Zika Virus (ZIKV)
Numbers in white columns represent number of pools tested to date in 2026
Number in green shaded columns represent positive pools in 2026

Tickborne Disease Activity

Lyme Disease

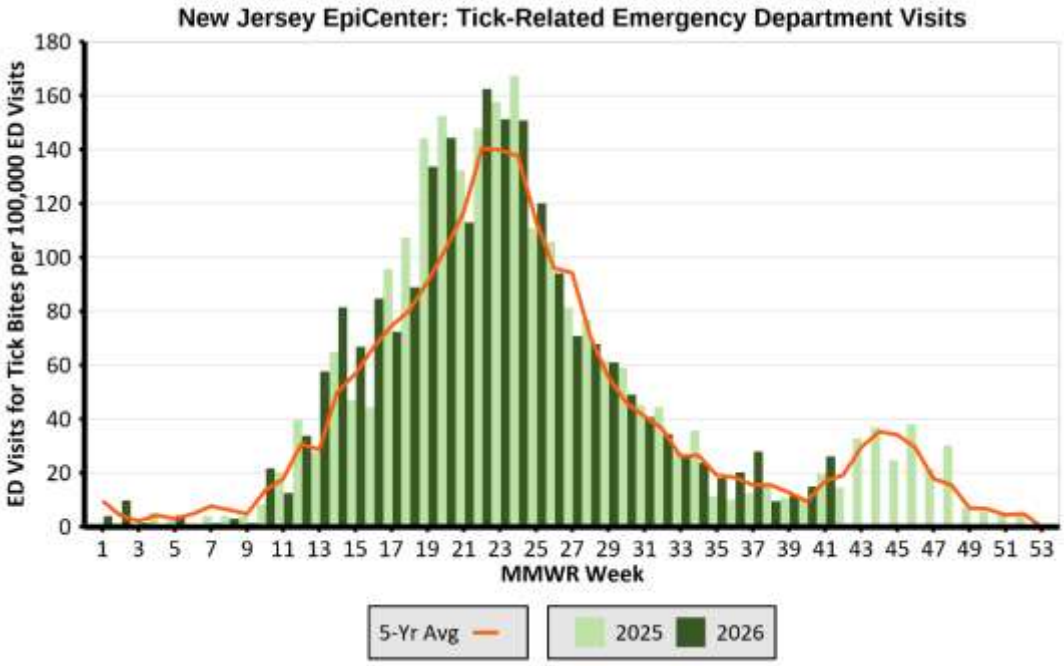
- There have been 5,504 cases of Lyme disease reported in NJ in 2026.
- The number of cases decreased slightly this week and is consistent with the four-year average.
- Most Lyme disease cases have been reported in the northwestern part of the state (Hunterdon, Morris, and Sussex counties) as well as in Ocean and Monmouth counties.





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 this week 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/