

Vector-borne Surveillance Report

CDC Week 36: Sep 6 - 12, 2026

Highlights:

- **New Jersey is reporting one new West Nile Virus (WNV) case in Camden County. To date, there are six WNV cases and four presumptive viremic blood donors (PVD). Additional suspect cases are under investigation.**
- **Since last week's report, 136 additional mosquito pools tested positive for WNV, for a total of 1,052 positive pools, which is higher than historical trends. The cumulative minimum infection rate is highest in Mercer and Hudson counties. The average number of Culex mosquitoes, which are associated with WNV transmission, is highest in Warren and Hudson counties.**
- **One mosquito pool tested positive for Eastern equine encephalitis (EEE) in Cape May County in week 35. No human or animal EEE cases have been reported in 2026.**
- **Two additional mosquito pools tested positive for Jamestown Canyon Virus (JCV) in Monmouth County, for a total of five positive mosquito pools this season. No human JCV cases have been reported in 2026.**
- **The number of Lyme disease cases reported this week continues to be below historical averages.**
- **The number of tick-related emergency department visits increased and is slightly higher than 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	446	534
Dengue	15	14	Anaplasmosis	193	312
Malaria	58	89	Babesiosis	160	373
West Nile	6	23	Ehrlichiosis	93	98
Zika	1	-	Hard Tick Relapsing Fever	5	14
Eastern Equine Encephalitis	-	-	Lyme Disease	4697	6596
Jamestown Canyon	-	-	Powassan	-	2
			Spotted Fever Group Rickettsioses	29	25
			Tularemia	3	1

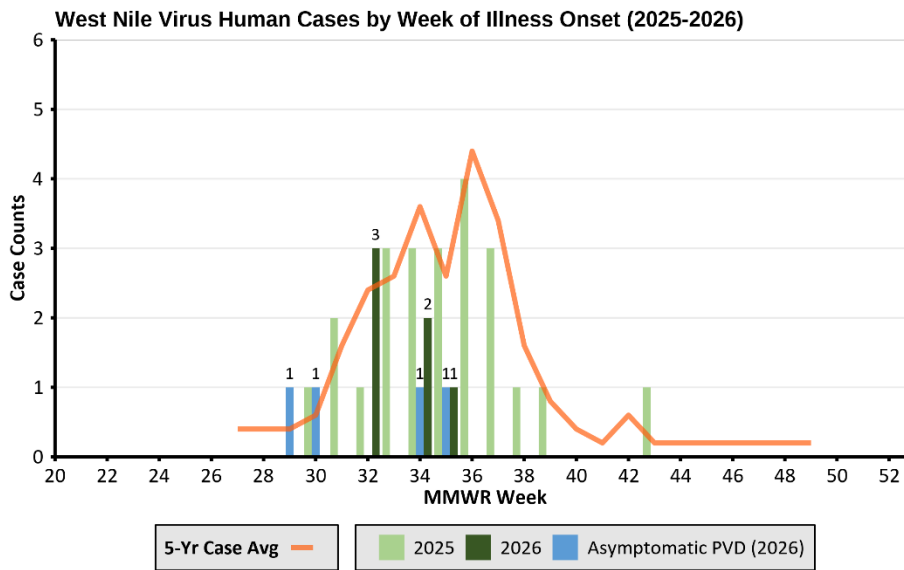
Mosquito-borne Disease Activity

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 September 17, 2026, at 12:00 pm.

West Nile Virus

- Six human cases of WNV have been reported in 2026 from Hudson (2), Camden, Essex, Monmouth, and Ocean counties. Four PVDs were reported in Bergen, Camden, Mercer, and Ocean 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). All 21 counties have submitted mosquitoes for testing and out of 9,028 pools tested, 1,052 have tested positive for WNV in 21 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (880), *Cx. pipiens* (63), *Aedes albopictus* (45), *Ae. japonicus* (29), *Cx. restuans* (10), *Ae. triseriatus* (7), *An. punctipennis* (5), *Ae. vexans* (3), *Cx. salinarius* (2), *Cx. territans* (2), *Ae. stricticus* (1), *Ae. taeniorhynchus* (1), *Coquillettia perturbans* (1), *Cx. erraticus* (1), *Culiseta melanura* (1), and *Psorophora ciliata* (1) mosquitoes.



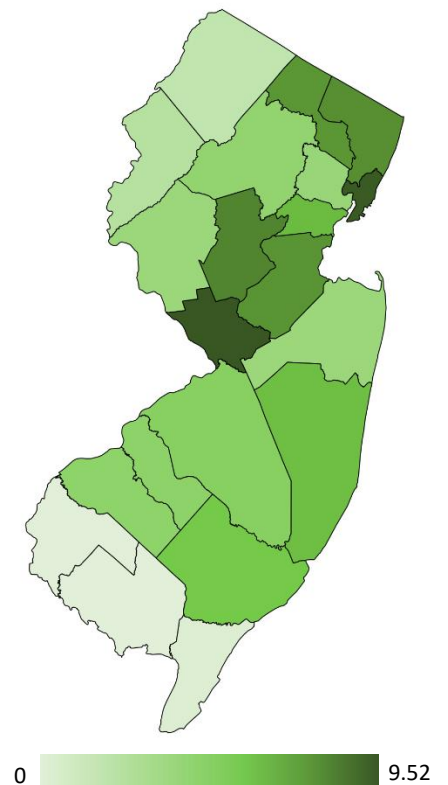
WNV Human Activity				
County	Cases		PVD*	
	2026	2025	2026	2025
Hudson	2	1		
Camden	1	1	1	
Essex	1	1		
Monmouth	1	2		
Ocean	1		1	
Atlantic		2		
Bergen		2	1	
Burlington		2		2
Cape May				
Cumberland				
Gloucester		1		
Hunterdon				
Mercer		1	1	
Middlesex		4		2
Morris		2		
Passaic		1		
Salem				
Somerset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

*Asymptomatic Presumptive Viremic Donors

WNV Mosquito Pool Testing						
County	WEEK 36 Positive Pools		Cumulative Pos. Total (WEEK 36)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025		
Mercer	4	4	51	58	308	9.52
Hudson	9	5	103	74	250	9.41
Somerset	6	2	57	51	253	8.20
Bergen	7	3	172	171	386	7.92
Middlesex	11	7	89	98	340	7.77
Passaic	-	-	55	16	310	7.67
Union	1	-	49	68	212	6.40
Ocean	1	-	21	9	373	6.31
Atlantic	-	3	54	40	386	5.89
Burlington	5	-	31	12	267	4.98
Camden	-	1	27	12	508	4.69
Gloucester	6	10	63	55	641	4.66
Morris	11	8	45	55	403	4.44
Essex	3	1	28	59	397	4.13
Monmouth	1	-	64	40	340	4.02
Hunterdon	12	12	48	65	280	4.00
Warren	4	2	33	14	355	2.70
Sussex	1	8	25	49	344	2.20
Cape May	-	2	30	19	1900	0.85
Salem	-	1	5	5	440	0.63
Cumberland	-	1	2	4	335	0.63
Total	82	70	1052	974	9028	-

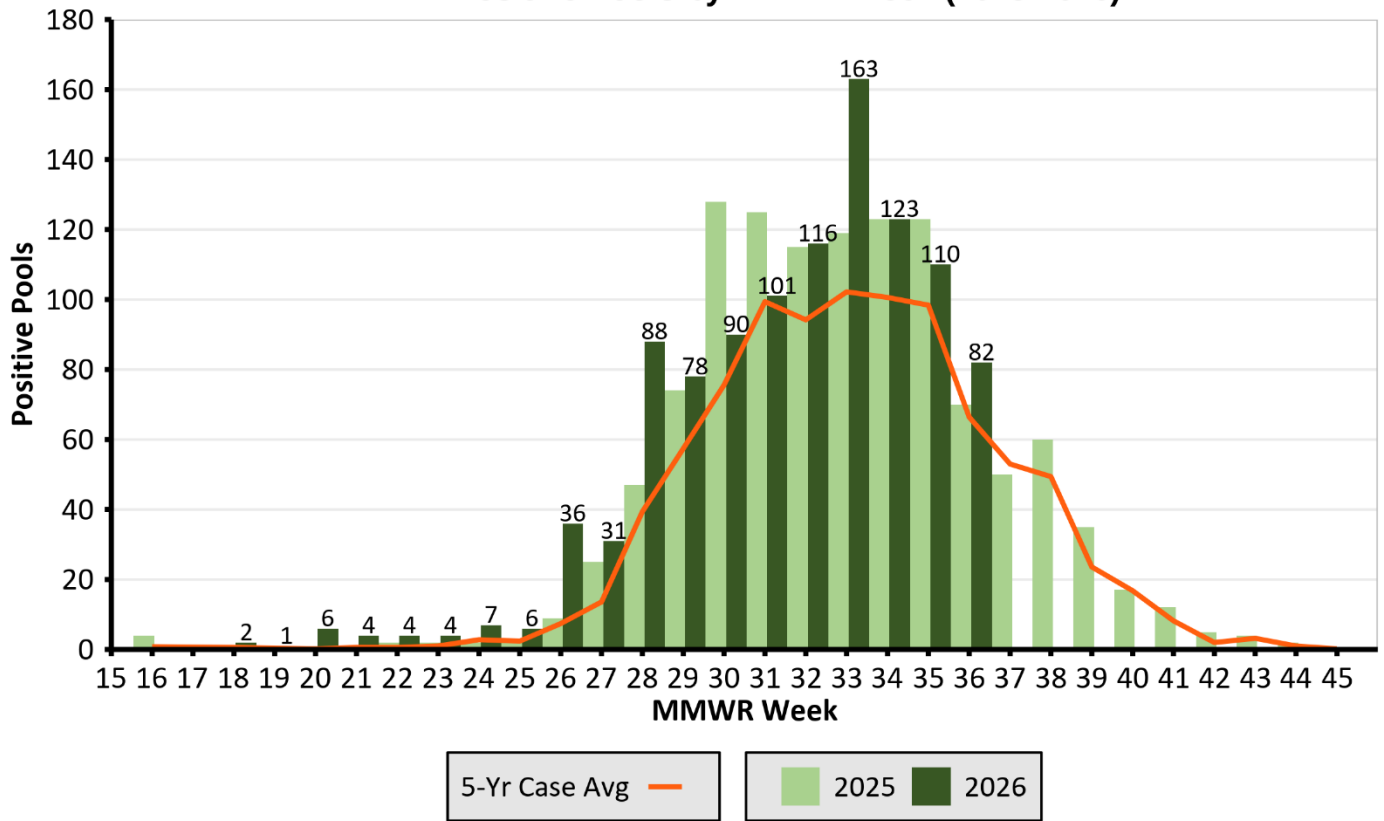
WEEK 36: Aug 31 - Sep 6, 2025; Sep 6 - 12, 2026

Cumulative WNV MIR, 2026

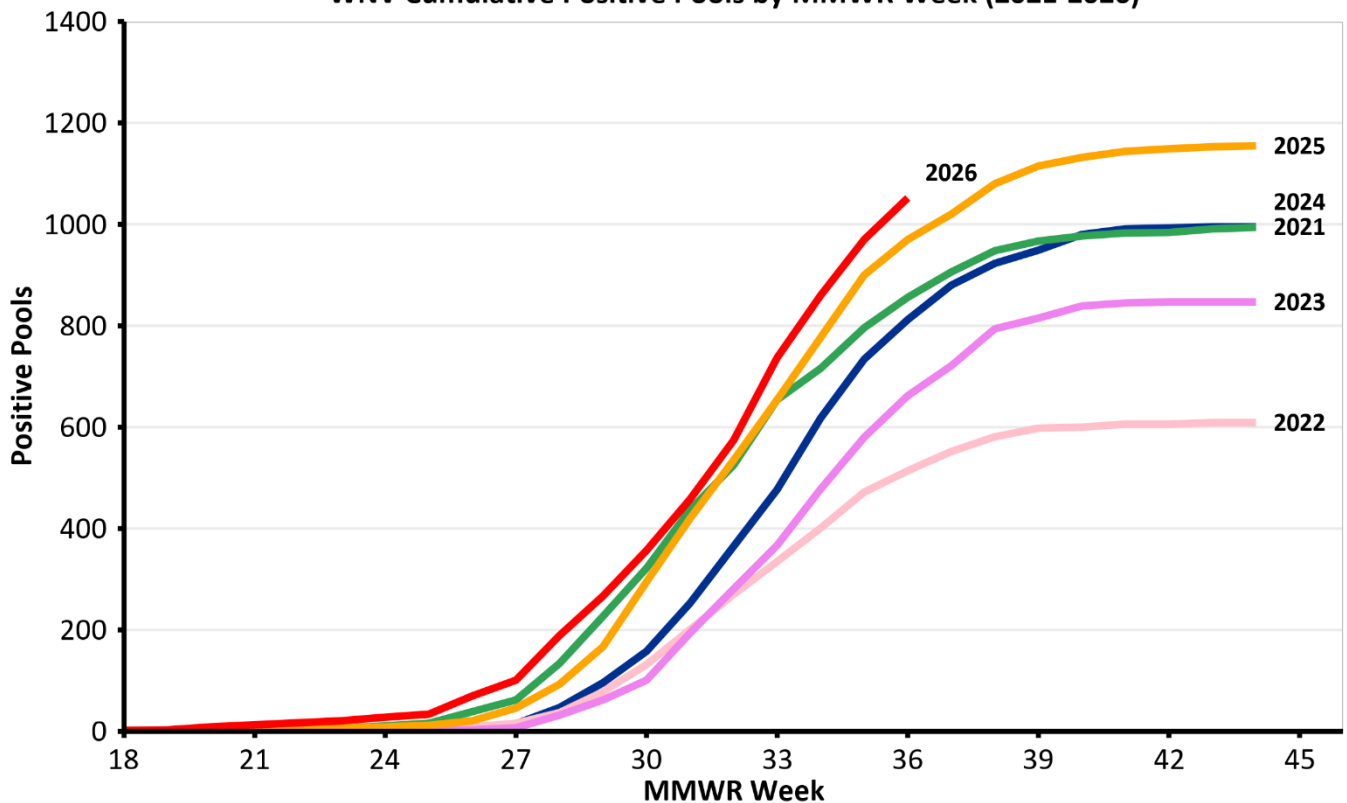


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

WNV Positive Pools by MMWR Week (2025-2026)



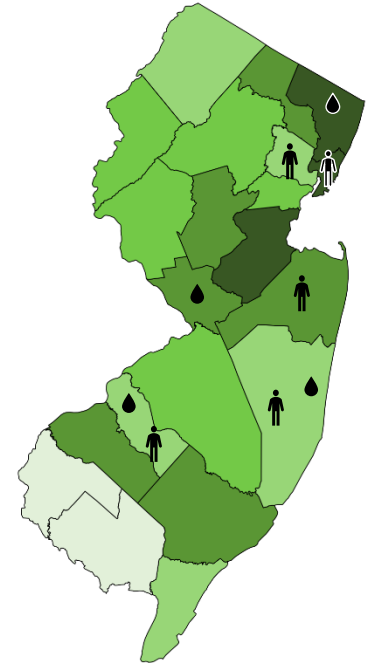
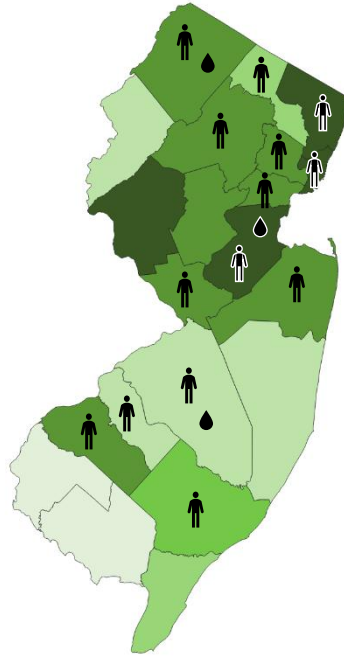
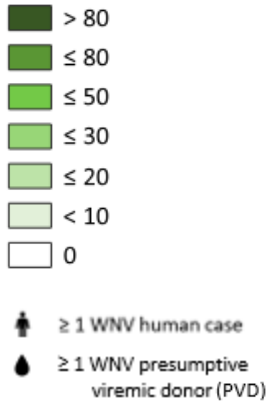
WNV Cumulative Positive Pools by MMWR Week (2021-2026)



2025 WNV Activity

2026 WNV Activity

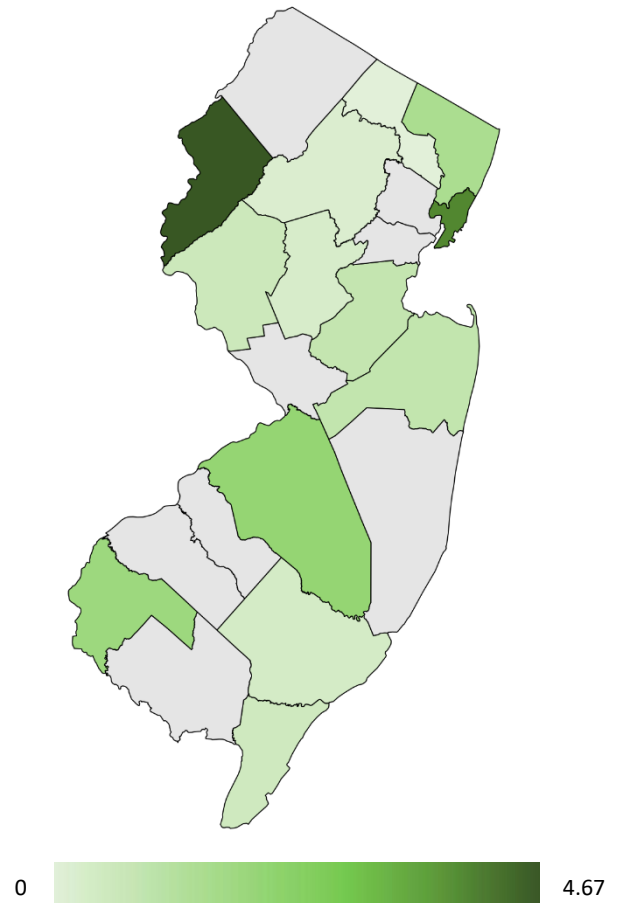
WNV Positive Pools



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

County	WEEK 35 - 36 Average Abundance*
Warren	4.67
Hudson	3.97
Burlington	2.01
Salem	1.80
Bergen	1.47
Monmouth	0.90
Middlesex	0.85
Hunterdon	0.65
Cape May	0.58
Atlantic	0.45
Somerset	0.37
Morris	0.28
Passaic	0.10
Camden	No available data
Cumberland	No available data
Essex	No available data
Gloucester	No available data
Mercer	No available data
Ocean	No available data
Sussex	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 35 – 36*



* 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.

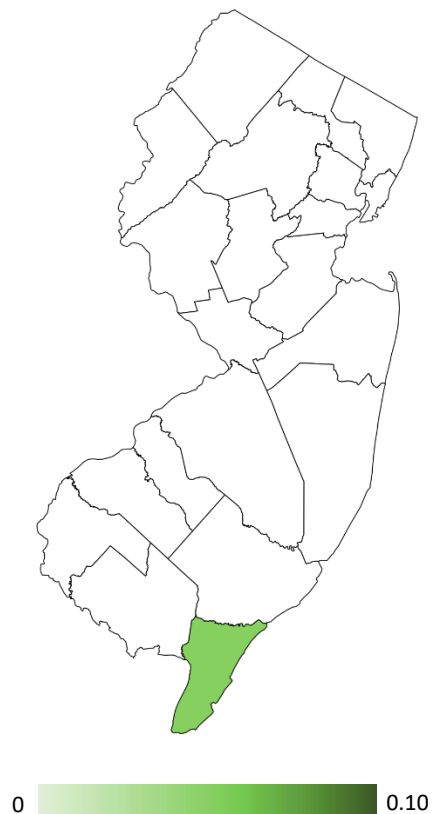
Eastern Equine Encephalitis

- 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 8,966 mosquito pools tested for EEE, one tested positive from Cape May County in week 35.
- In 2025, the first EEE positive pool was detected in week 33 in Atlantic County.

EEE Mosquito Pool Testing						
County	WEEK 36 Positive Pools		Cumulative Pos. Total (WEEK 36)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025		
Cape May	-	-	1	-	1900	0.03
Atlantic	-	-	-	2	386	0.00
Bergen	-	-	-	-	386	0.00
Burlington	-	-	-	-	265	0.00
Camden	-	-	-	1	506	0.00
Cumberland	-	-	-	-	335	0.00
Essex	-	-	-	-	397	0.00
Gloucester	-	-	-	-	617	0.00
Hudson	-	-	-	-	250	0.00
Hunterdon	-	-	-	-	276	0.00
Mercer	-	-	-	-	308	0.00
Middlesex	-	-	-	-	337	0.00
Monmouth	-	-	-	-	340	0.00
Morris	-	-	-	-	403	0.00
Ocean	-	-	-	-	367	0.00
Passaic	-	-	-	-	310	0.00
Salem	-	-	-	-	440	0.00
Somerset	-	-	-	-	253	0.00
Sussex	-	-	-	-	344	0.00
Union	-	-	-	-	212	0.00
Warren	-	-	-	-	334	0.00
Total	0	0	1	3	8966	-

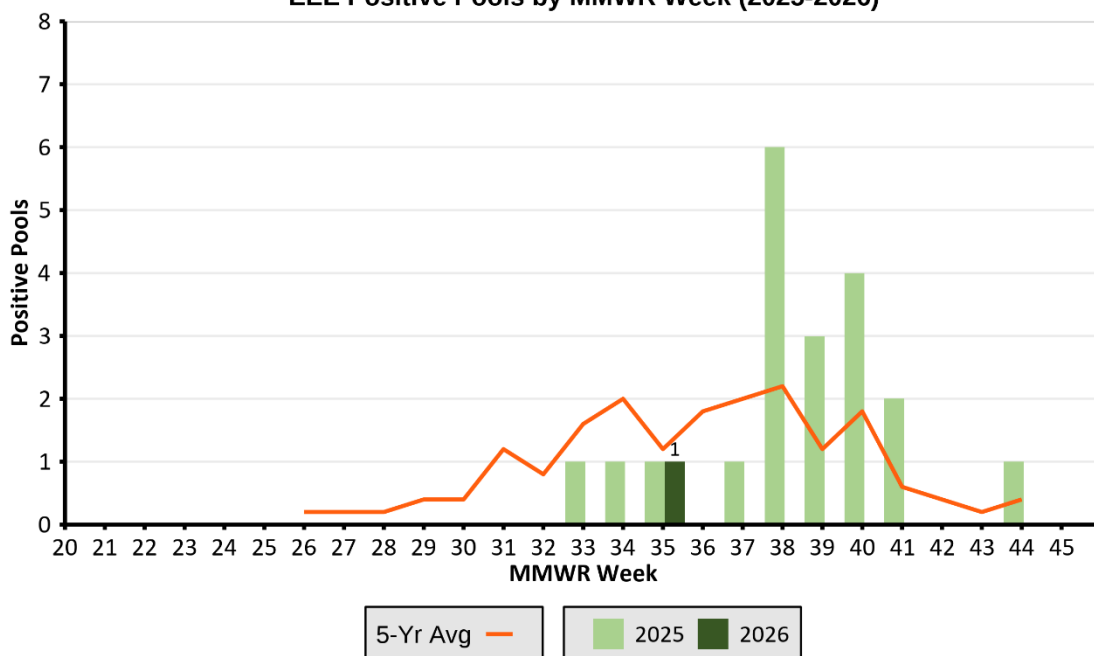
WEEK 36: Aug 31 - Sep 6, 2025; Sep 6 - 12, 2026

Cumulative EEE MIR, 2026



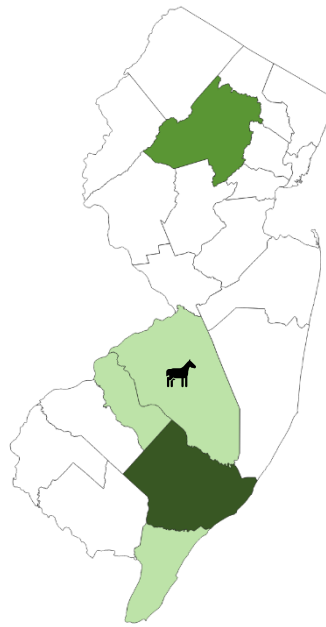
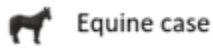
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

EEE Positive Pools by MMWR Week (2025-2026)



2025 EEE Activity

EEE Positive Pools



2026 EEE Activity

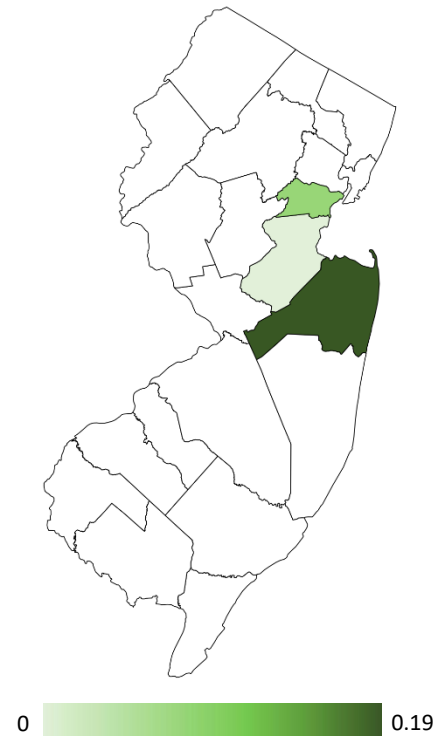


Jamestown Canyon Virus

- 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 8,966 mosquito pools from 21 counties tested for JCV, five pools were positive in Middlesex, Monmouth, and Union counties.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

JCV Mosquito Pool Testing						
County	WEEK 36 Positive Pools		Cumulative Pos. Total (WEEK 36)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Monmouth	-	-	3	-	340	0.19
Union	-	-	1	-	212	0.13
Middlesex	-	-	1	-	337	0.09
Atlantic	-	-	-	-	386	0.00
Bergen	-	-	-	-	386	0.00
Burlington	-	-	-	-	265	0.00
Camden	-	-	-	-	506	0.00
Cape May	-	-	-	-	1900	0.00
Cumberland	-	-	-	-	335	0.00
Essex	-	-	-	-	397	0.00
Gloucester	-	-	-	-	617	0.00
Hudson	-	-	-	-	250	0.00
Hunterdon	-	-	-	-	276	0.00
Mercer	-	-	-	-	308	0.00
Morris	-	-	-	2	403	0.00
Ocean	-	-	-	-	367	0.00
Passaic	-	-	-	-	310	0.00
Salem	-	-	-	-	440	0.00
Somerset	-	-	-	-	253	0.00
Sussex	-	-	-	1	344	0.00
Warren	-	-	-	-	334	0.00
Total	0	0	5	3	8966	-

Cumulative JCV MIR, 2026

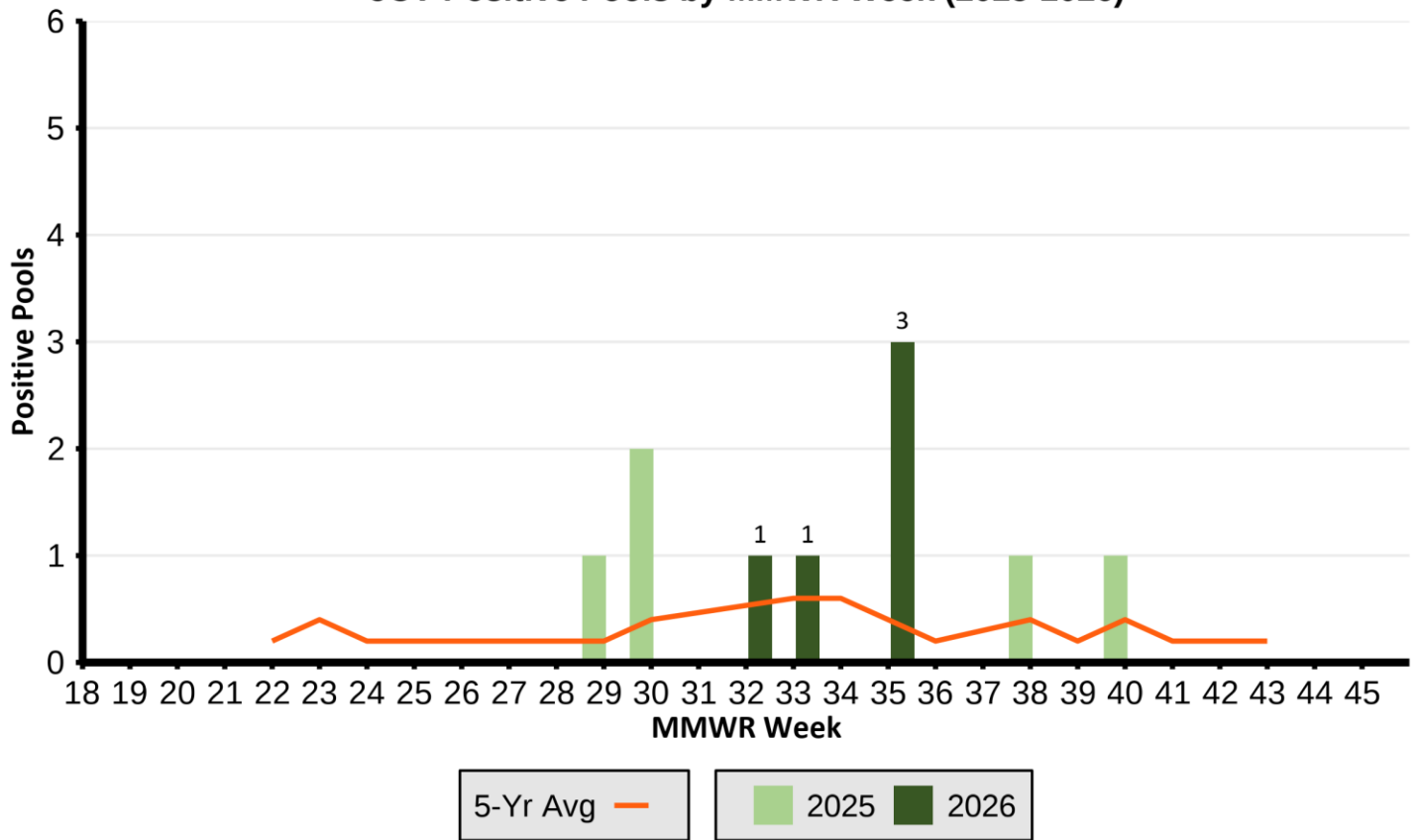


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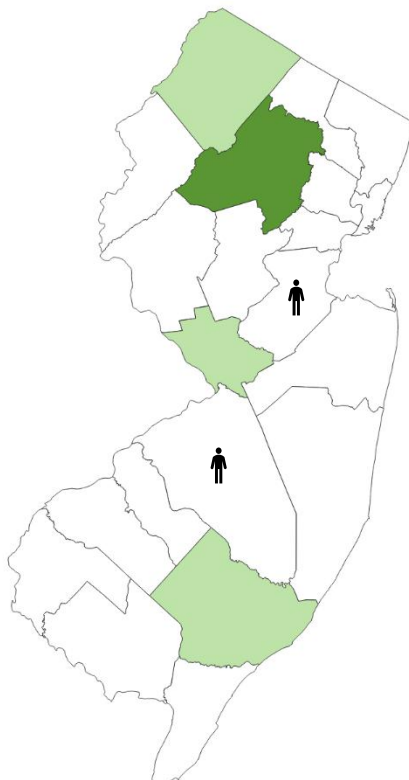
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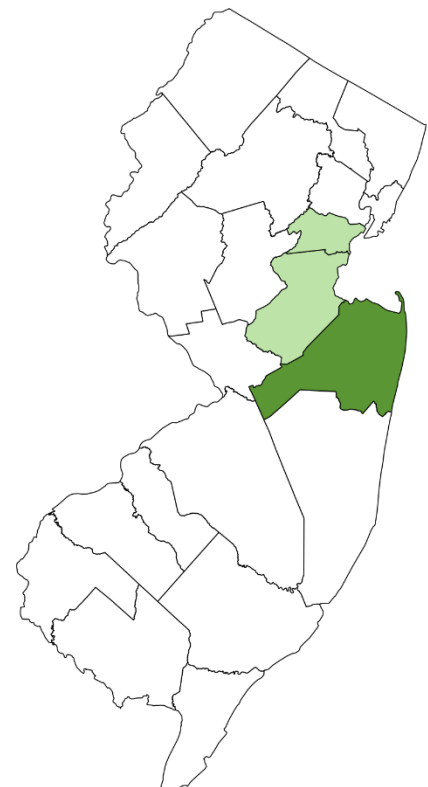
JCV Positive Pools by MMWR Week (2025-2026)



2025 JCV Activity



2026 JCV Activity



Other Mosquito-borne Diseases

- Mosquito pools in 21 counties have been tested for St. Louis encephalitis with no positive results.
- Mosquito pools in 10 counties have been tested for La Crosse encephalitis with no positive results.
- Mosquito pools in 6 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	386									
Bergen	386				7		7		7	
Burlington	265		2							
Camden	506		2		3		3		3	
Cape May	1900									
Cumberland	335									
Essex	397									
Gloucester	617		85		91		91		91	
Hudson	250									
Hunterdon	276		4							
Mercer	308									
Middlesex	337		3		20		20		20	
Monmouth	340									
Morris	403				6		6		6	
Ocean	367		8							
Passaic	310		36							
Salem	440		43							
Somerset	253				1		1		1	
Sussex	344		36							
Union	212									
Warren	334		22							
Total	8966	0	241	0	128	0	128	0	128	0

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

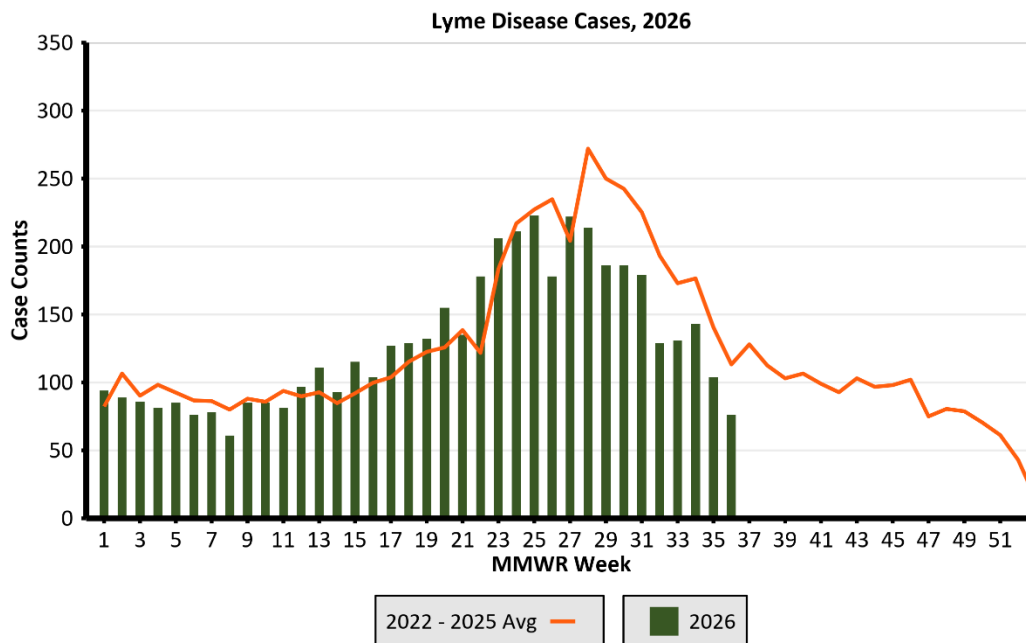
Numbers in white columns represent number of pools tested to date in 2026

Number in green shaded columns represent positive pools in 2026

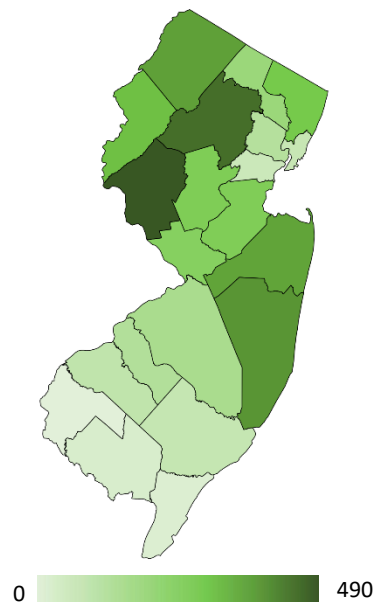
Tickborne Disease Activity

Lyme Disease

- There have been 4,697 cases of Lyme disease reported in NJ in 2026.
- The number of cases reported in Week 36 continued to decline and remains below 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 and Monmouth counties.

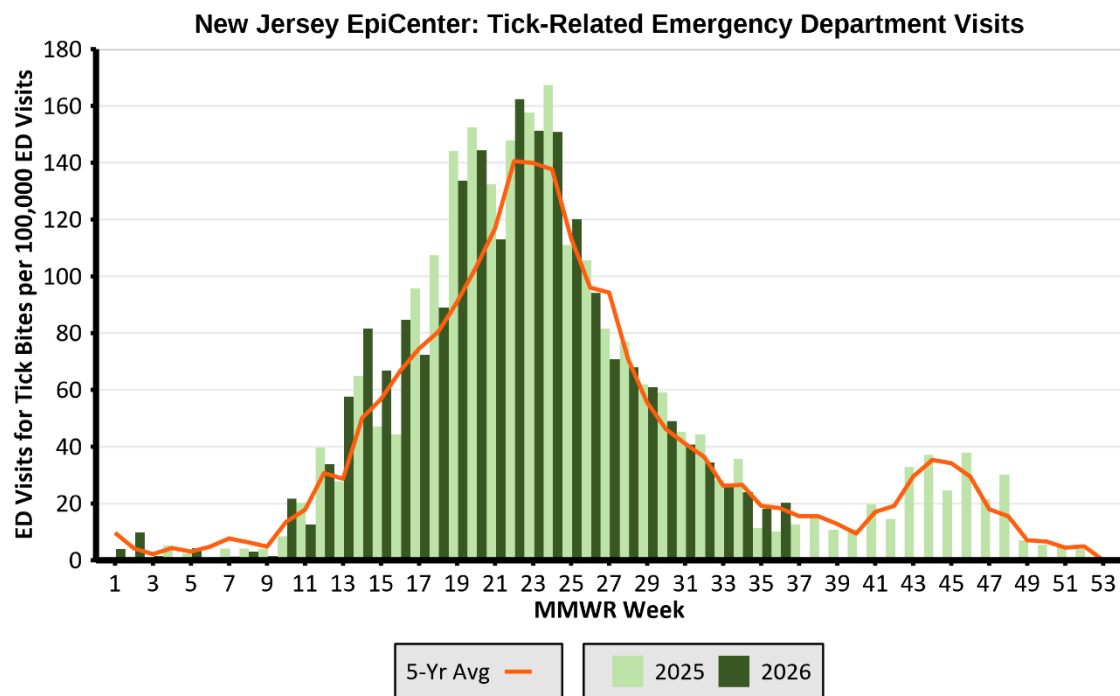


Lyme Disease Cases, 2026



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 and is slightly 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/>