

Vector-borne Surveillance Report

CDC Week 37: Sep 13 - 19, 2026

Highlights:

- **New Jersey is reporting 12 additional West Nile Virus (WNV) cases this week, for a total of 18 WNV cases in 10 counties and four presumptive viremic blood donors (PVD). The number of reported cases in recent weeks is higher than average.**
- **Since last week's report, 71 additional mosquito pools tested positive for WNV, for a total of 1,133 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 Salem and Bergen counties.**
- **One mosquito pool tested positive for La Crosse virus in Sussex County in week 36.**
- **There were no new mosquito detections of Eastern equine encephalitis (EEE) or Jamestown Canyon virus (JCV) this week. To date, one mosquito pool has tested positive for EEE and five pools have tested positive for JCV. No human or animal cases have been reported in 2026.**
- **The number of tick-related emergency department visits increased this week and is 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	467	538
Dengue	15	14	Anaplasmosis	196	312
Malaria	58	89	Babesiosis	161	373
West Nile	18	23	Ehrlichiosis	93	98
Zika	1	-	Hard Tick Relapsing Fever	5	14
Eastern Equine Encephalitis	-	-	Lyme Disease	4834	6596
Jamestown Canyon	-	-	Powassan	-	2
			Spotted Fever Group Rickettsioses	29	25
			Tularemia	3	1

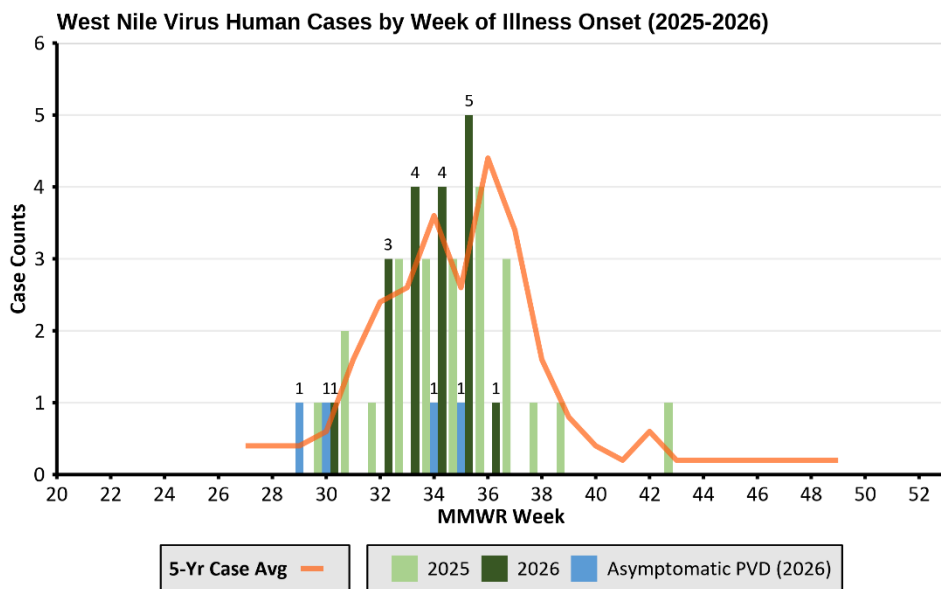
Mosquito-borne Disease Activity

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 24, 2026, at 12:00 pm.

West Nile Virus

- Eighteen human cases of WNV have been reported in 2026 from Monmouth (5), Camden (2), Hudson (2), Mercer (2), Middlesex (2), Atlantic, Essex, Ocean, Somerset, and Union 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). Out of 9,486 pools tested, 1,133 have tested positive for WNV in 21 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (943), *Cx. pipiens* (64), *Aedes albopictus* (49), *Ae. japonicus* (32), *Cx. restuans* (10), *Ae. triseriatus* (7), *An. punctipennis* (6), *Culiseta melanura* (4), *Ae. vexans* (3), *Cx. erraticus* (2), *Cx. salinarius* (2), *Cx. territans* (2), *Ae. stricticus* (1), *Ae. taeniorhynchus* (1), *An. quadrimaculatus* s.l. (1), *Coquillettidia perturbans* (1), and *Psorophora ciliata* (1) mosquitoes.



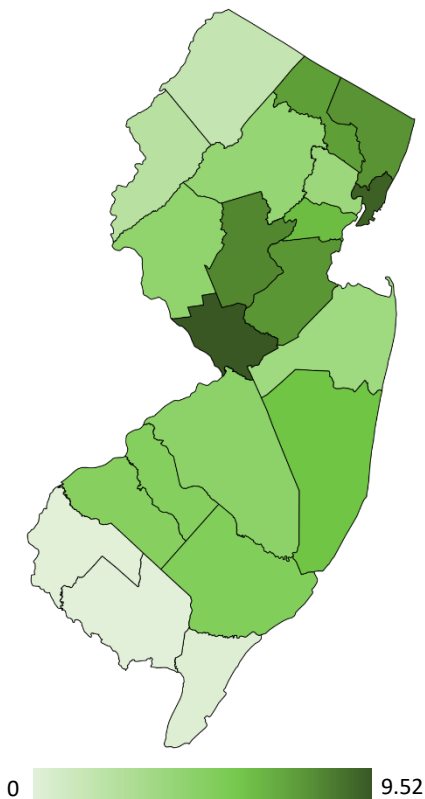
WNV Human Activity				
County	Cases		PVD*	
	2026	2025	2026	2025
Monmouth	5	2		
Camden	2	1	1	
Hudson	2	1		
Mercer	2	1	1	
Middlesex	2	4		2
Atlantic	1	2		
Essex	1	1		
Ocean	1		1	
Somerset	1			
Union	1	2		
Bergen		2	1	
Burlington		2		2
Cape May				
Cumberland				
Gloucester		1		
Hunterdon				
Morris		2		
Passaic		1		
Salem				
Sussex		1		1
Warren				
Total	18	23	4	5

*Asymptomatic Presumptive Viremic Donors

WNV Mosquito Pool Testing						
County	WEEK 37 Positive Pools		Cumulative Pos. Total (WEEK 37)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Mercer	4	3	55	61	335	9.90
Hudson	9	4	112	78	264	9.63
Somerset	5	3	62	54	268	8.47
Bergen	11	4	187	175	406	8.12
Middlesex	8	1	97	99	360	8.05
Passaic	-	3	56	19	330	7.70
Union	3	2	52	70	217	6.62
Ocean	2	-	23	9	398	6.34
Atlantic	-	2	55	42	416	5.45
Camden	2	4	32	16	528	5.32
Gloucester	-	6	73	61	668	5.23
Burlington	1	-	32	12	286	4.89
Hunterdon	11	5	59	70	296	4.68
Morris	-	3	46	58	407	4.50
Essex	1	-	29	59	417	4.14
Monmouth	2	3	66	43	360	3.97
Warren	1	-	34	14	375	2.73
Sussex	-	5	25	54	360	2.13
Cape May	-	1	31	20	1994	0.84
Salem	-	1	5	6	446	0.63
Cumberland	-	-	2	4	355	0.61
Total	60	50	1133	1024	9486	-

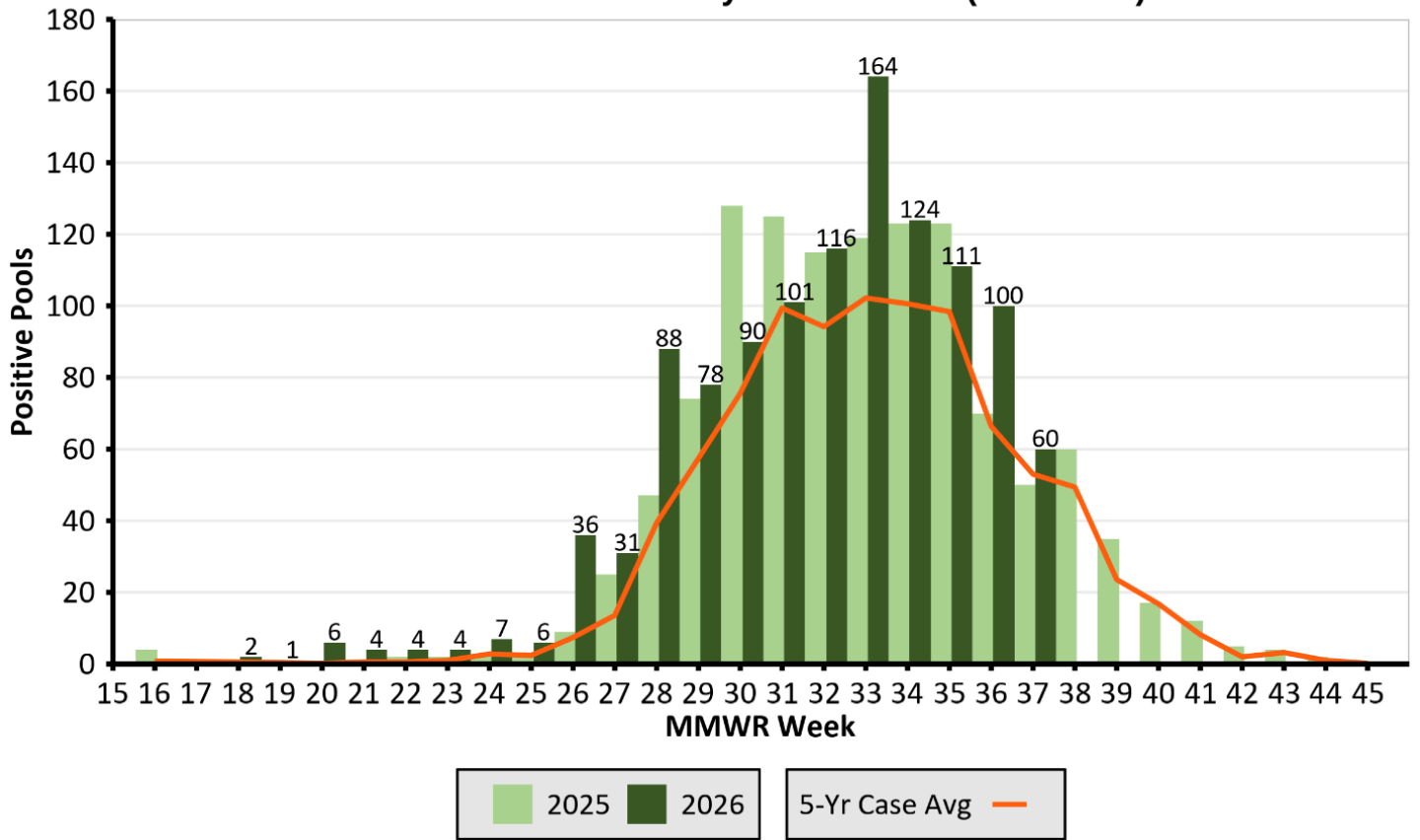
WEEK 37: Sep 7 - 13, 2025; Sep 13 - 19, 2026

Cumulative WNV MIR, 2026

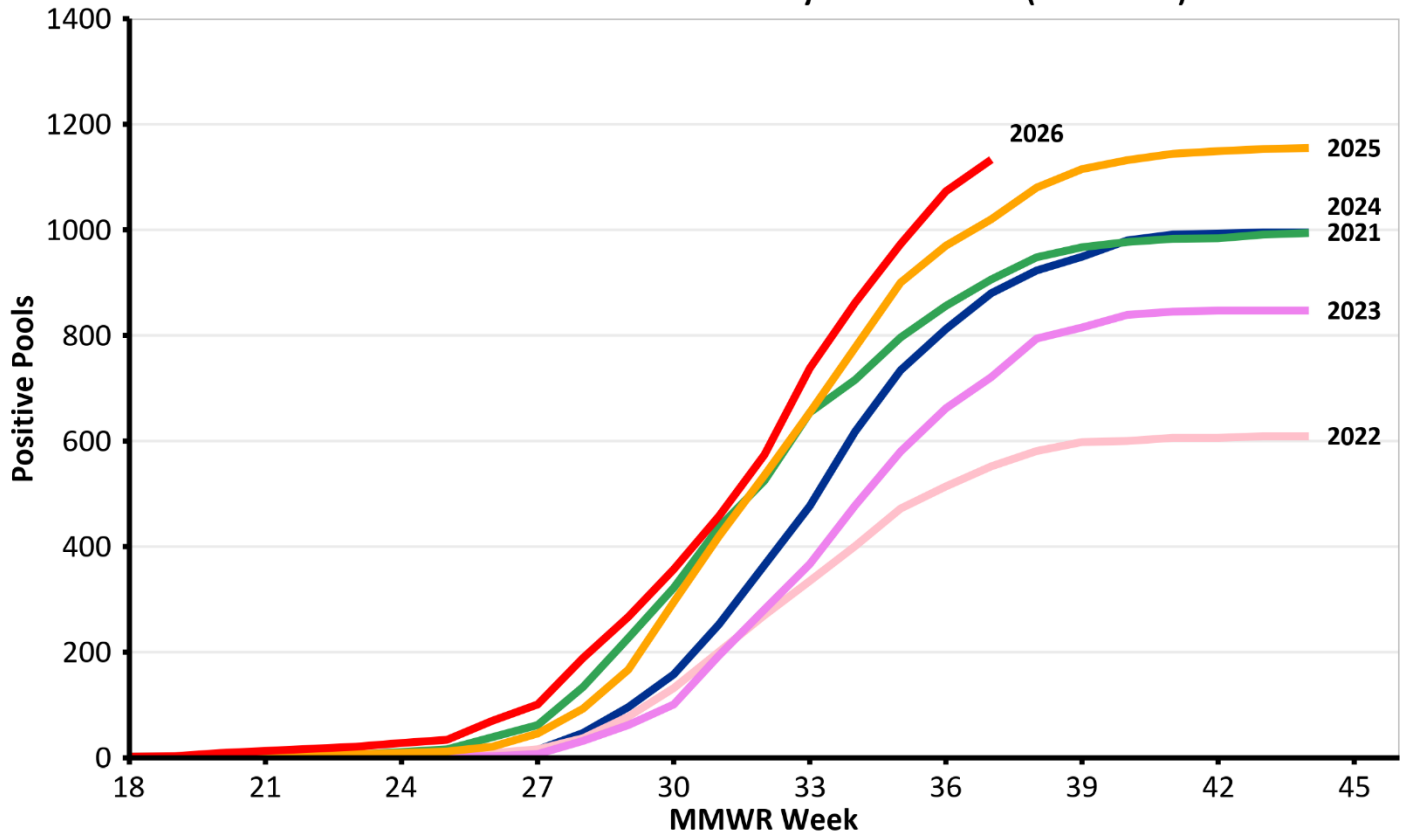


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

WNV Positive Pools by MMWR Week (2025-2026)

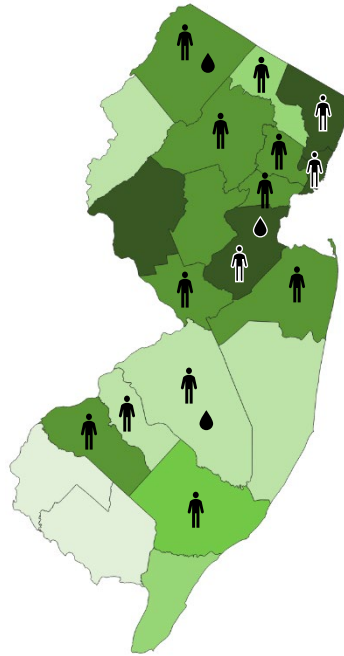
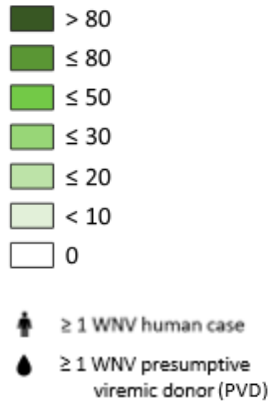


WNV Cumulative Positive Pools by MMWR Week (2021-2026)

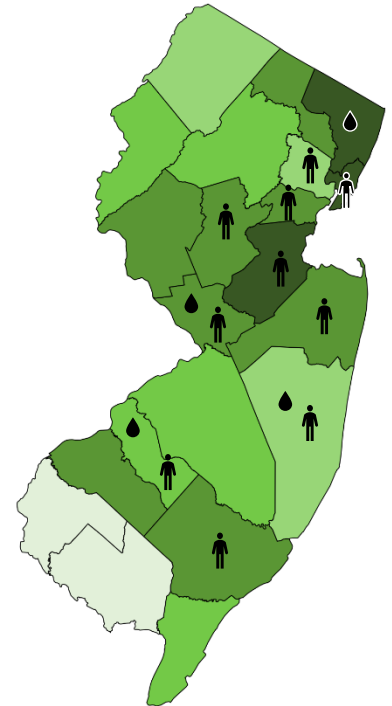


2025 WNV Activity

WNV Positive Pools



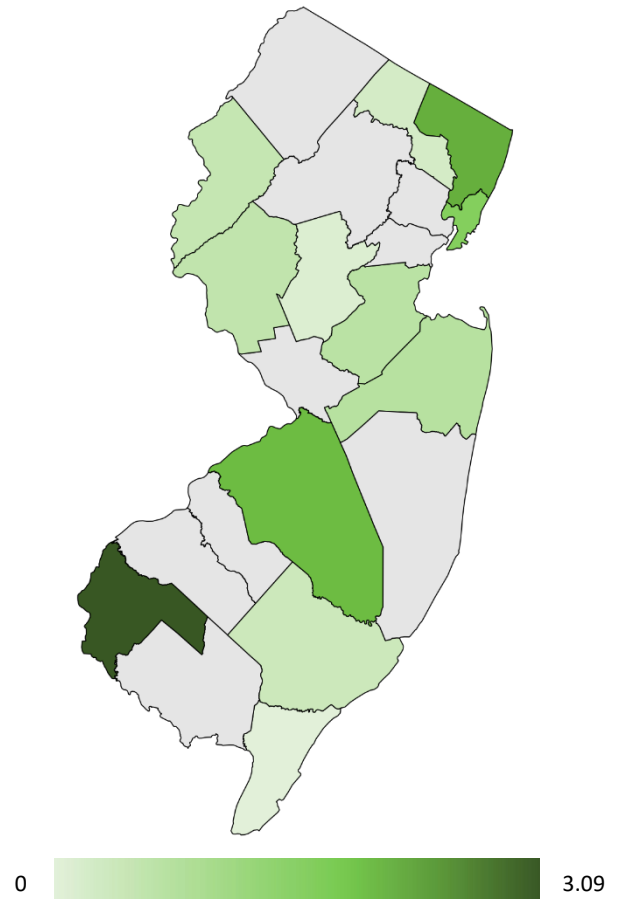
2026 WNV Activity



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

County	WEEK 36 - 37 Average Abundance*
Salem	3.09
Bergen	2.17
Burlington	2.01
Hudson	1.59
Monmouth	0.72
Middlesex	0.66
Hunterdon	0.56
Warren	0.49
Atlantic	0.38
Passaic	0.24
Somerset	0.09
Cape May	0.00
Camden	No available data
Cumberland	No available data
Essex	No available data
Gloucester	No available data
Mercer	No available data
Morris	No available data
Ocean	No available data
Sussex	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 36 – 37*



* 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.

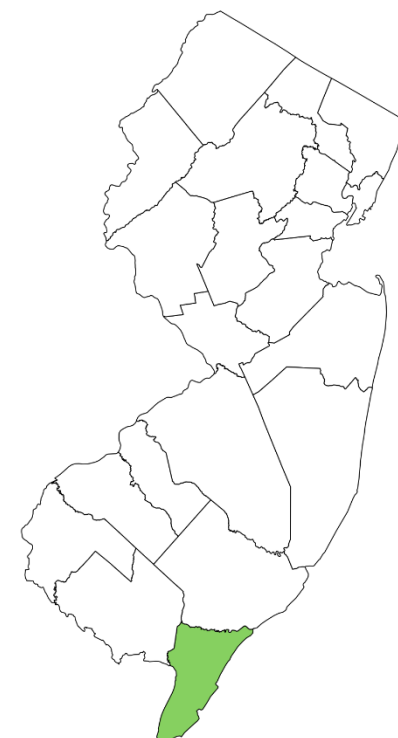
Eastern Equine Encephalitis

- 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 9,418 mosquito pools tested for EEE, one pool 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 37 Positive Pools		Cumulative Pos. Total (WEEK 37)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Cape May	-	-	1	-	1994	0.03
Atlantic	-	-	-	2	416	0.00
Bergen	-	-	-	-	406	0.00
Burlington	-	1	-	1	283	0.00
Camden	-	-	-	1	526	0.00
Cumberland	-	-	-	-	355	0.00
Essex	-	-	-	-	417	0.00
Gloucester	-	-	-	-	644	0.00
Hudson	-	-	-	-	264	0.00
Hunterdon	-	-	-	-	291	0.00
Mercer	-	-	-	-	335	0.00
Middlesex	-	-	-	-	357	0.00
Monmouth	-	-	-	-	360	0.00
Morris	-	-	-	-	407	0.00
Ocean	-	-	-	-	392	0.00
Passaic	-	-	-	-	330	0.00
Salem	-	-	-	-	446	0.00
Somerset	-	-	-	-	268	0.00
Sussex	-	-	-	-	360	0.00
Union	-	-	-	-	217	0.00
Warren	-	-	-	-	350	0.00
Total	0	1	1	4	9418	-

WEEK 37: Sep 7 - 13, 2025; Sep 13 - 19, 2026

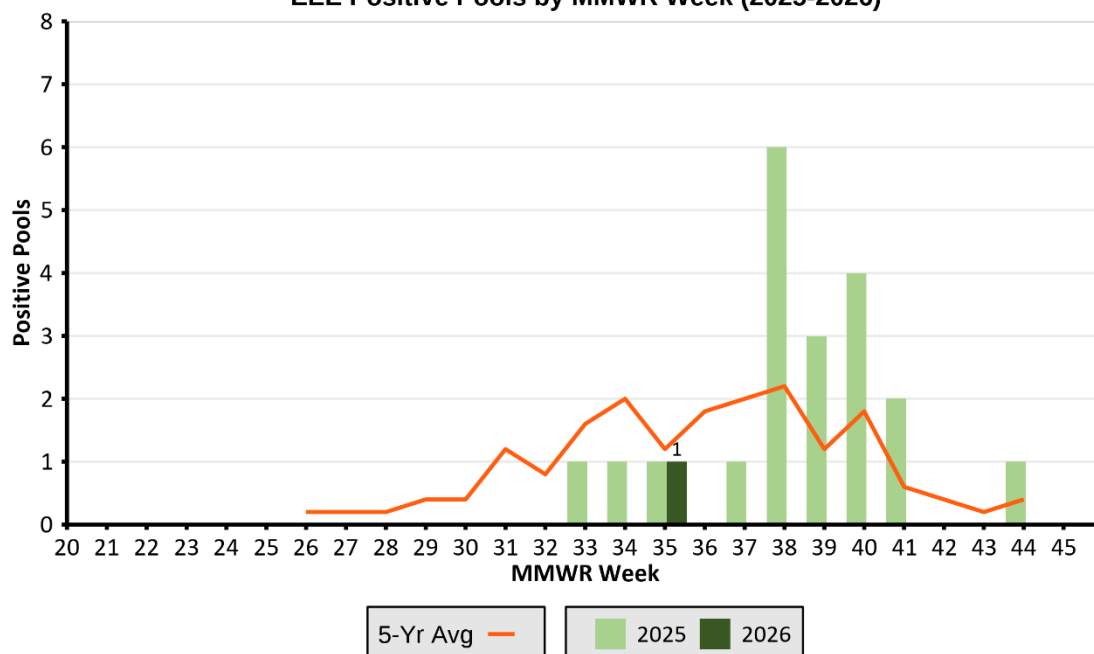
Cumulative EEE MIR, 2026



0 0.03

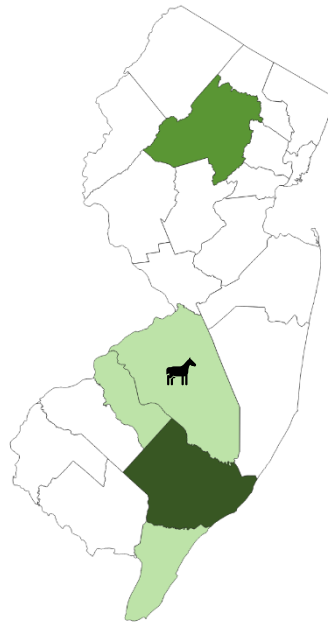
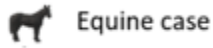
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

EEE Positive Pools by MMWR Week (2025-2026)



2025 EEE Activity

EEE Positive Pools



2026 EEE Activity



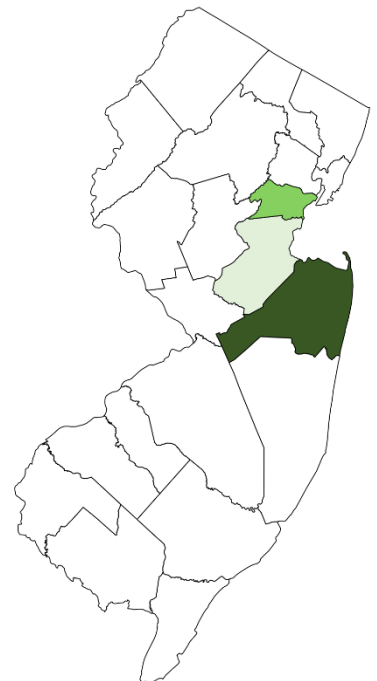
Jamestown Canyon Virus

- 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 9,418 mosquito pools from 21 counties tested for JCV, five pools were positive in Middlesex, Monmouth (3), and Union counties.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

JCV Mosquito Pool Testing

County	WEEK 37 Positive Pools		Cumulative Pos. Total (WEEK 37)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Monmouth	-	-	3	-	360	0.18
Union	-	-	1	-	217	0.13
Middlesex	-	-	1	-	357	0.08
Atlantic	-	-	-	-	416	0.00
Bergen	-	-	-	-	406	0.00
Burlington	-	-	-	-	283	0.00
Camden	-	-	-	-	526	0.00
Cape May	-	-	-	-	1994	0.00
Cumberland	-	-	-	-	355	0.00
Essex	-	-	-	-	417	0.00
Gloucester	-	-	-	-	644	0.00
Hudson	-	-	-	-	264	0.00
Hunterdon	-	-	-	-	291	0.00
Mercer	-	-	-	-	335	0.00
Morris	-	-	-	2	407	0.00
Ocean	-	-	-	-	392	0.00
Passaic	-	-	-	-	330	0.00
Salem	-	-	-	-	446	0.00
Somerset	-	-	-	-	268	0.00
Sussex	-	-	-	1	360	0.00
Warren	-	-	-	-	350	0.00
Total	0	0	5	3	9418	-

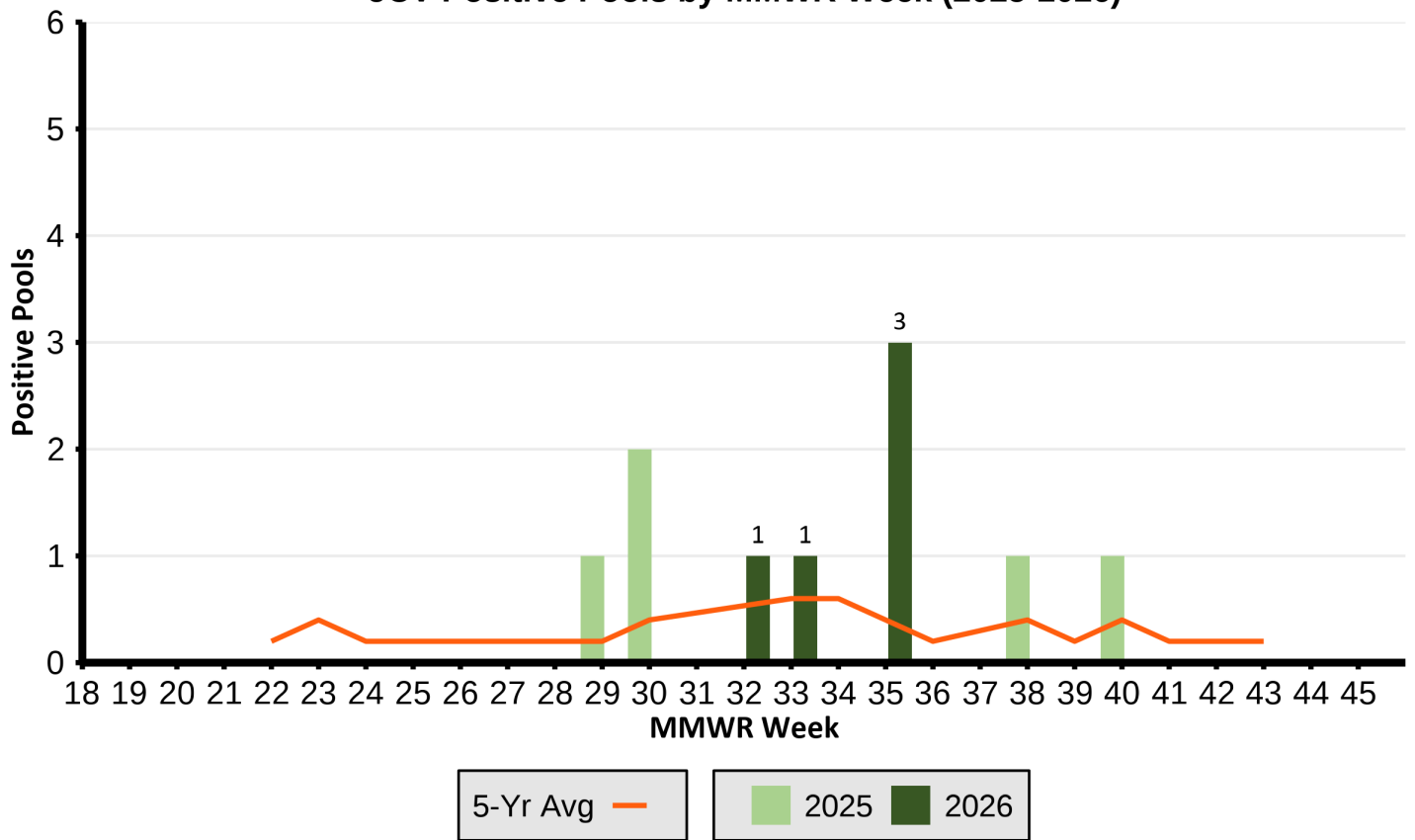
Cumulative JCV MIR, 2026



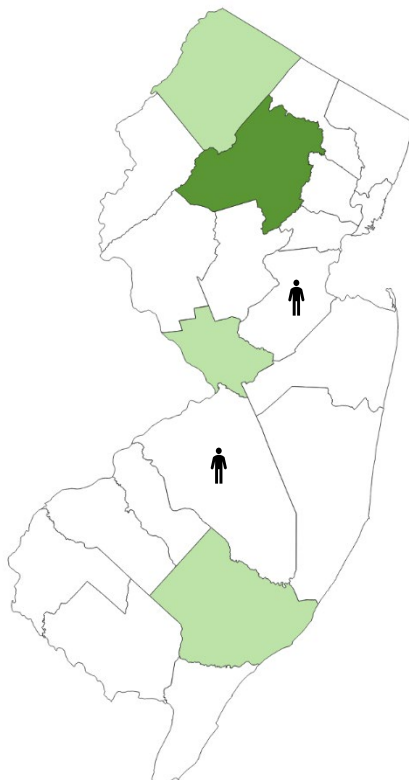
0 0.18

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

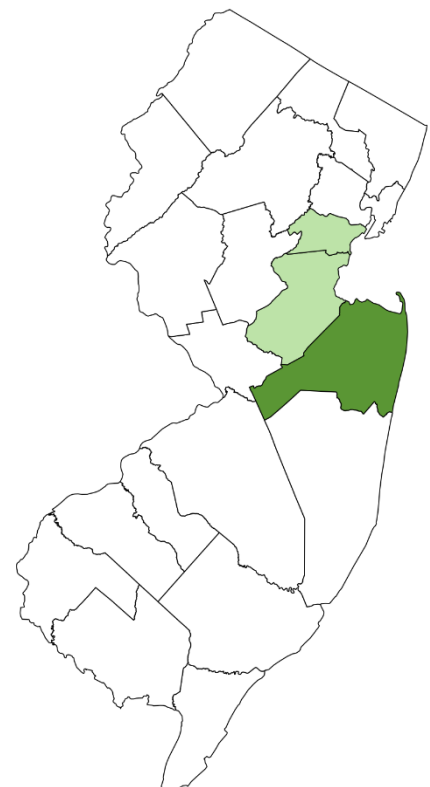
JCV Positive Pools by MMWR Week (2025-2026)



2025 JCV Activity



2026 JCV Activity



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)										
County	SLE		LAC		CHIKV		DENV		ZIKV	
	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	416									
Bergen	406				7		7		7	
Burlington	283		3							
Camden	526		2		6		6		6	
Cape May	1994									
Cumberland	355									
Essex	417									
Gloucester	644		87		91		91		91	
Hudson	264									
Hunterdon	291		5							
Mercer	335				1		1		1	
Middlesex	357		3		20		20		20	
Monmouth	360									
Morris	407				8		8		8	
Ocean	392		8							
Passaic	330		41							
Salem	446		45							
Somerset	268				1		1		1	
Sussex	360		42	1						
Union	217									
Warren	350		26							
Total	9418	0	262	1	134	0	134	0	134	0

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

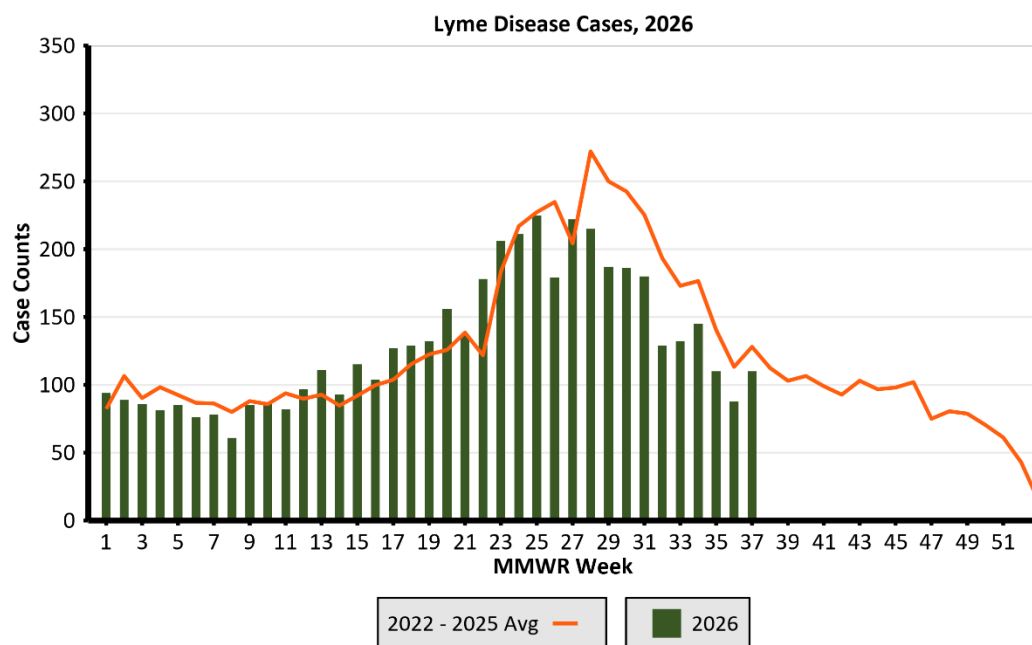
Numbers in white columns represent number of pools tested to date in 2026

Number in green shaded columns represent positive pools in 2026

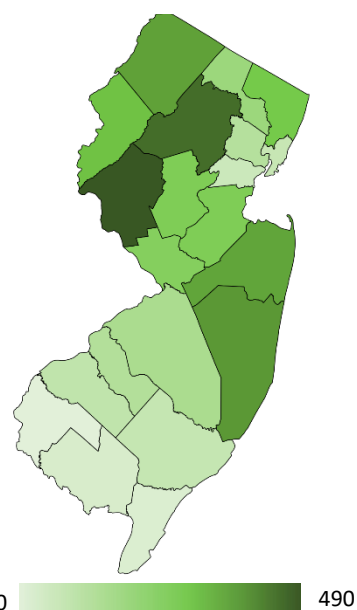
Tickborne Disease Activity

Lyme Disease

- There have been 4,834 cases of Lyme disease reported in NJ in 2026.
- The number of cases increased in Week 37, but remains below the four-year average.
- The largest number of Lyme disease cases has been reported in the northwestern part of the state (Hunterdon, Morris, and Sussex counties) as well as in Ocean and Monmouth counties.

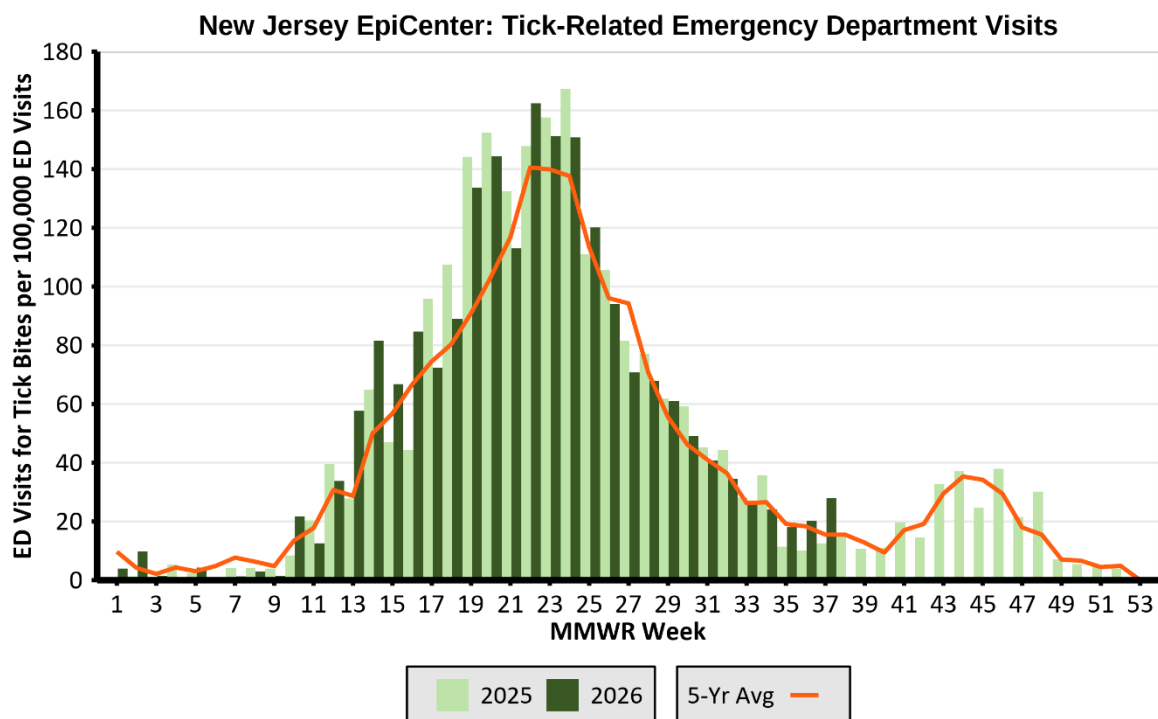


Lyme Disease Cases, 2026



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 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/>