Vector-borne Surveillance Report

CDC Week 40: Oct 4 - 10, 2026

Highlights:

- ***New Jersey is reporting three additional West Nile Virus (WNV) cases this week and one death. To date, there have been 33 reported WNV cases, including three deaths, and five reported presumptive viremic blood donors (PVD). WNV cases have been reported in 15 counties with the highest number reported in Monmouth (6), Camden (5), and Mercer (4) counties. The number of reported cases in recent weeks is higher than average.***
- ***Since last week's report, 12 additional mosquito pools tested positive for WNV, for a total of 1,262 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.***
- ***One additional mosquito pool has tested positive for Jamestown Canyon virus (JCV) in Ocean 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 slightly this week, consistent with 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	**498**	539
Dengue	**23**	14	Anaplasmosis	**212**	312
Malaria	**64**	89	Babesiosis	**171**	373
West Nile	**33**	23	Ehrlichiosis	**100**	98
Zika	**1**	-	Hard Tick Relapsing Fever	**6**	14
Eastern Equine Encephalitis	**-**	-	Lyme Disease	**5390**	6596
Jamestown Canyon	**-**	-	Powassan	**-**	2
			Spotted Fever Group Rickettsioses	**32**	25
			Tularemia	**3**	1

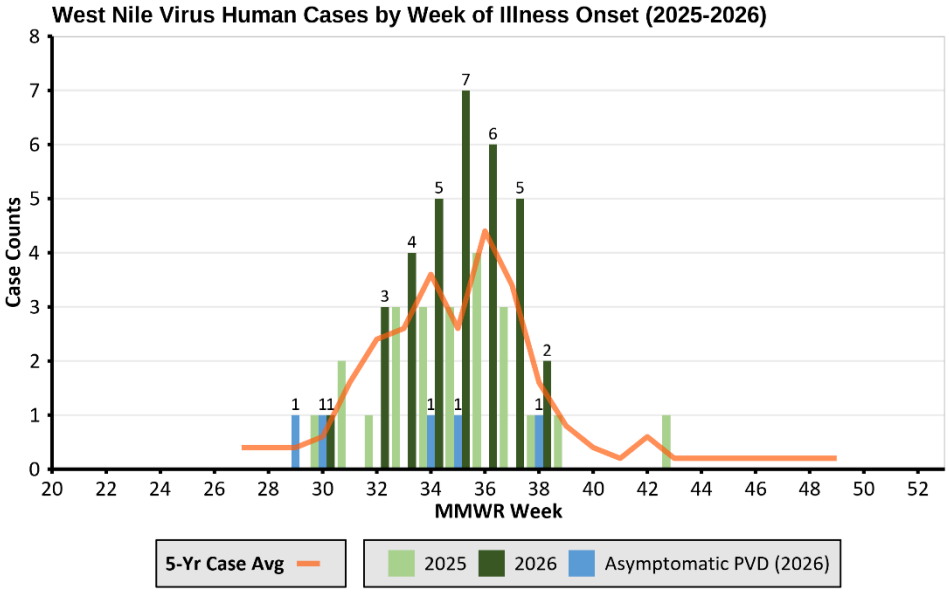
Mosquito-borne Disease Activity

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 8, 2026, at 12:45 pm.

West Nile Virus

- Thirty-three human cases of WNV have been reported in 2026 from fifteen counties and five PVD cases have been reported from four 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 11,156 pools tested, 1,262 have tested positive for WNV in 21 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (1,048), *Cx. pipiens* (73), *Aedes albopictus* (53), *Ae. japonicus* (34), *Cx. restuans* (15), *Ae. triseriatus* (9), *Anopheles punctipennis* (7), *Culiseta melanura* (7), *Ae. vexans* (3), *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
Monmouth	6	2		
Camden	5	1	1	
Mercer	4	1	2	
Atlantic	2	2		
Essex	2	1		
Hudson	2	1		
Middlesex	2	4		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	33	23	5	5

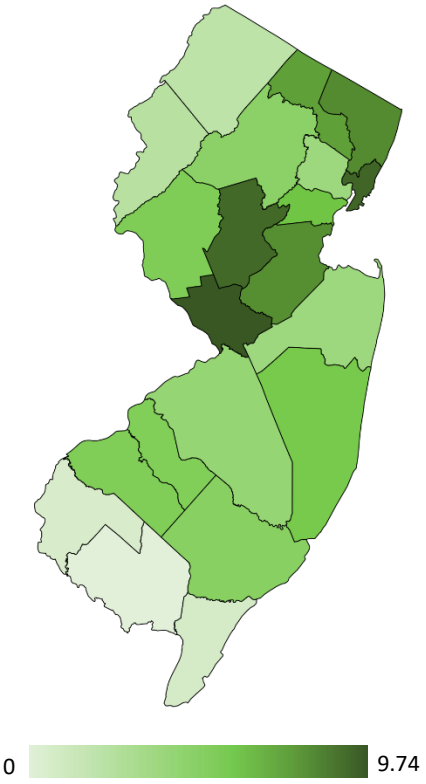
*Asymptomatic Presumptive Viremic Donors

WNV Mosquito Pool Testing

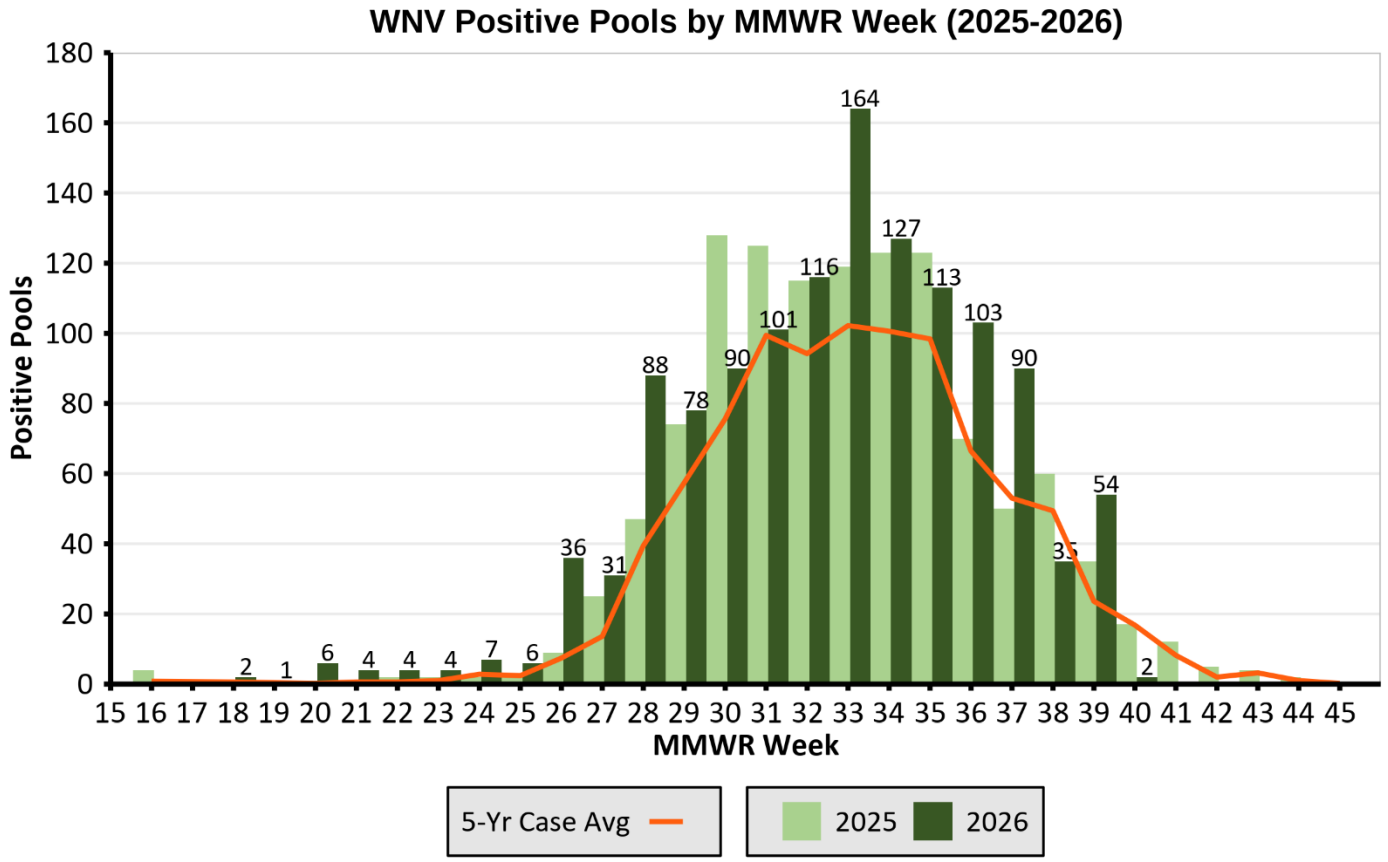
	WEEK 40 Positive Pools		Cumulative Pos. Total (WEEK 40)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Mercer	-	-	56	65	372	9.74
Hudson	-	-	118	82	310	9.32
Somerset	-	-	71	62	313	9.20
Bergen	-	3	208	209	465	8.21
Middlesex	1	2	107	104	415	8.12
Passaic	-	-	58	21	386	7.51
Union	-	-	52	70	235	6.20
Ocean	-	3	23	13	455	5.87
Hunterdon	1	2	77	80	343	5.50
Gloucester	-	-	90	65	797	5.44
Camden	-	1	37	18	628	5.40
Atlantic	-	-	55	42	490	5.07
Morris	-	-	53	61	483	4.86
Burlington	-	-	34	19	351	4.33
Essex	-	-	29	59	467	3.93
Monmouth	-	1	68	53	420	3.93
Warren	-	1	34	16	440	2.63
Sussex	-	-	31	58	502	2.36
Cape May	-	4	50	28	2339	1.16
Salem	-	-	9	7	530	1.03
Cumberland	-	-	2	4	415	0.51
Total	2	17	1262	1136	11156	-

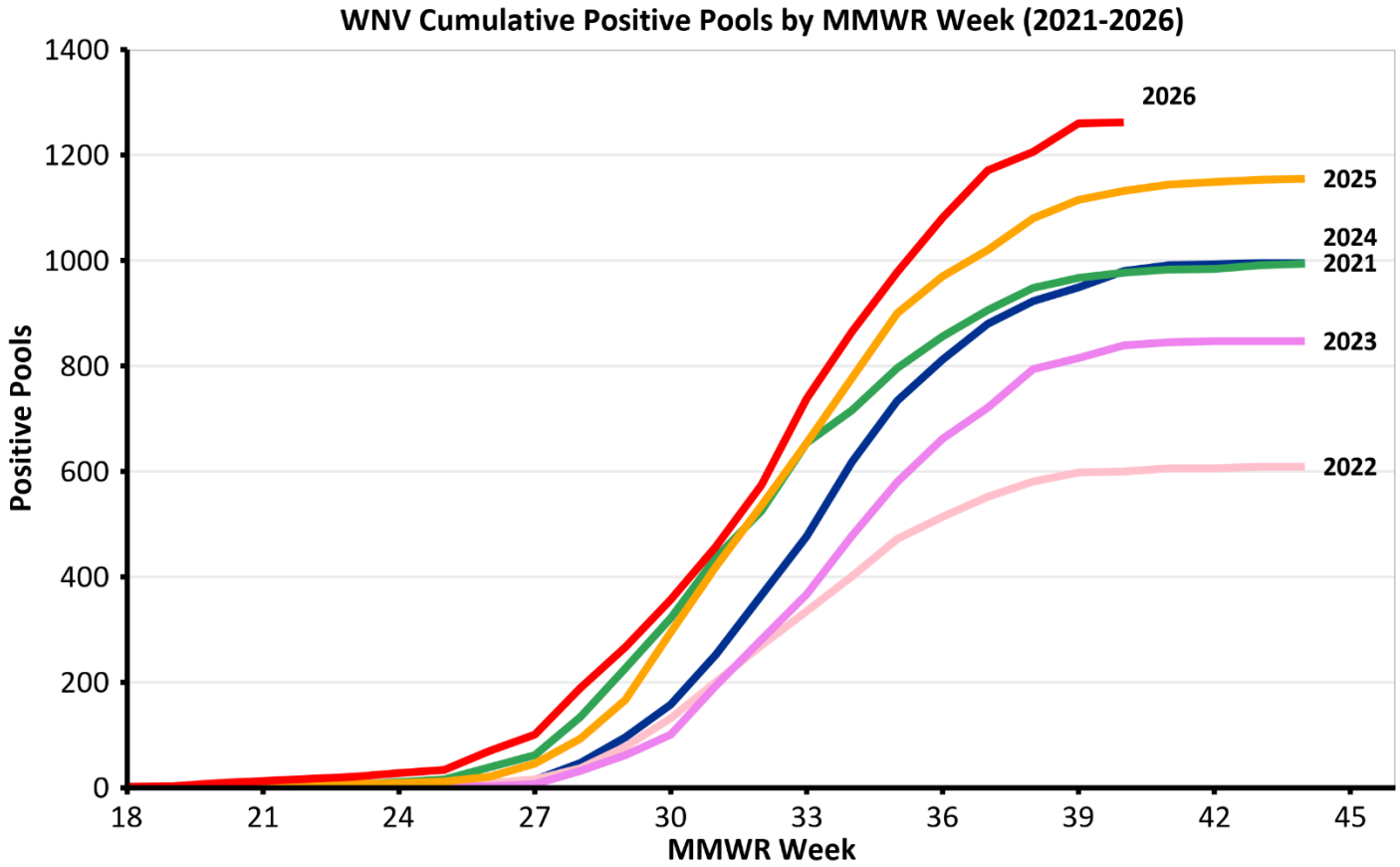
WEEK 40: Sep 28 - Oct 4, 2025; Oct 4 - 10, 2026

Cumulative WNV MIR, 2026

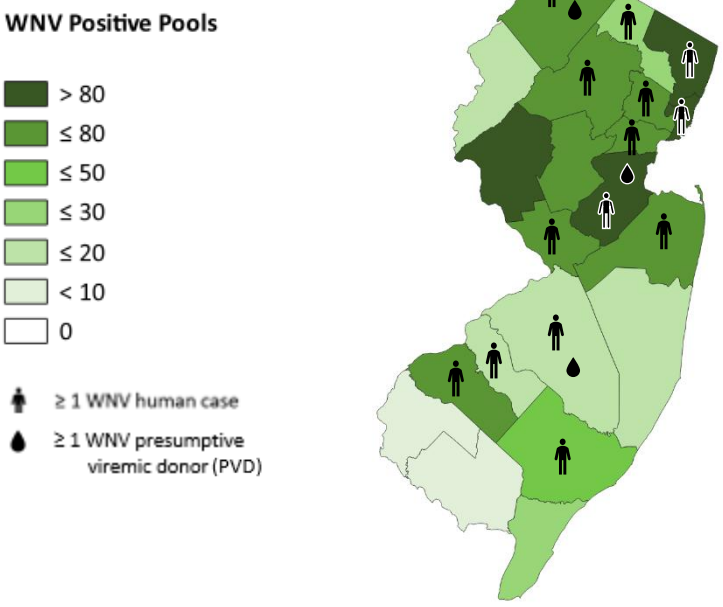


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

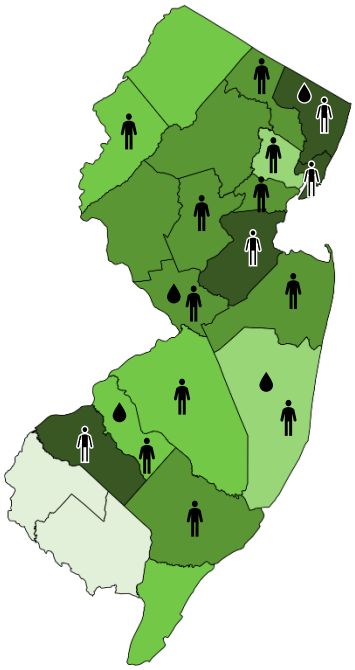

WNV Positive Pools by MMWR Week (2025-2026)
Positive Pools
MMWR Week
5-Yr Case Avg
2025
2026


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

2025 WNV Activity

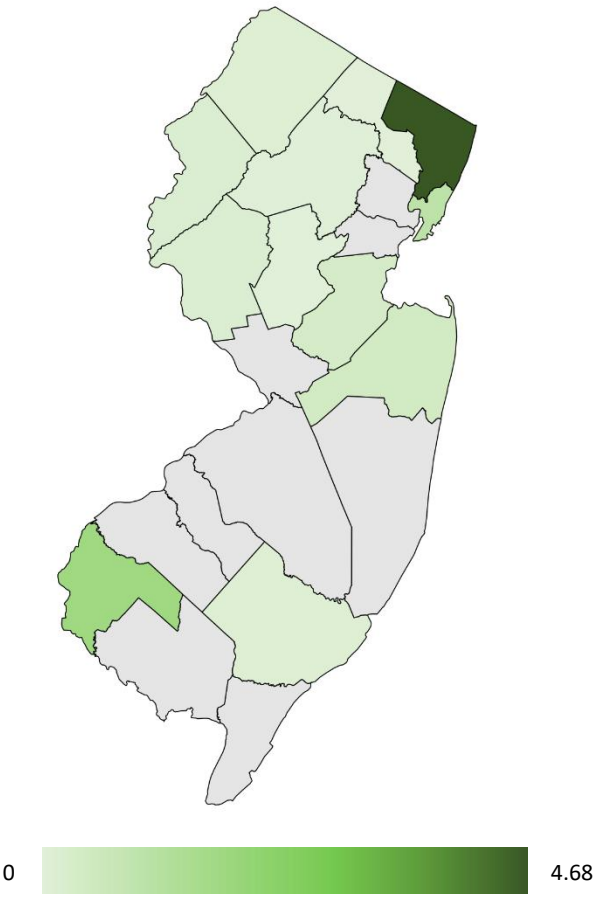


2026 WNV Activity



Average *Culex* Mosquitoes per Trap Night (average mosquito abundance)	
County	**WEEK 39 - 40 Average Abundance***
Bergen	4.68
Salem	1.69
Hudson	0.92
Monmouth	0.40
Middlesex	0.30
Warren	0.15
Hunterdon	0.15
Sussex	0.11
Atlantic	0.10
Morris	0.05
Somerset	0.02
Passaic	0.00
Burlington	No available data
Camden	No available data
Cape May	No available data
Cumberland	No available data
Essex	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 39 – 40*



[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

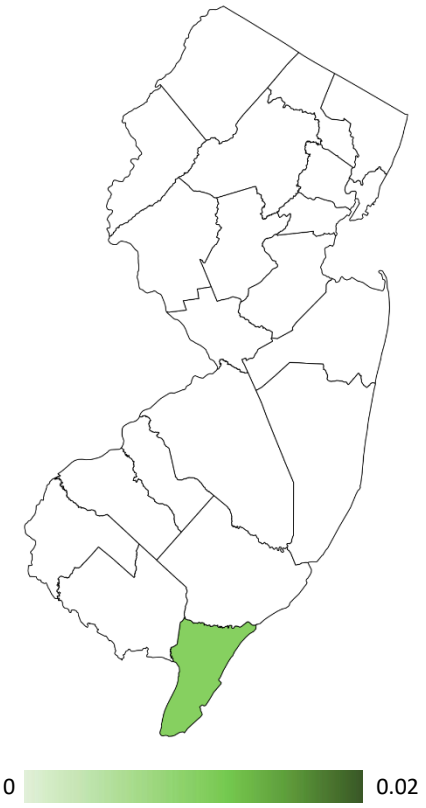
- There have been no human or animal cases of EEE reported in 2026. EEE human cases were last reported in 2024 (2 cases).
- Out of 10,995 mosquito pools tested for EEE, one pool tested positive from Cape May County in week 35. EEE was detected in *An. punctipennis* mosquitoes.
- In 2025, the first EEE positive pool was detected in week 33 in Atlantic County.

EEE Mosquito Pool Testing

	WEEK 40 Positive Pools		Cumulative Pos. Total (WEEK 40)		# Pools Tested	Cumulative MIR
County	**2026**	**2025**	**2026**	**2025**	**2026**	**2026[1]**
Cape May	-	2	1	2	2339	0.02
Atlantic	-	-	-	11	490	0.00
Bergen	-	-	-	-	465	0.00
Burlington	-	-	-	1	348	0.00
Camden	-	1	-	2	626	0.00
Cumberland	-	-	-	-	415	0.00
Essex	-	-	-	-	467	0.00
Gloucester	-	-	-	-	773	0.00
Hudson	-	-	-	-	310	0.00
Hunterdon	-	-	-	-	336	0.00
Mercer	-	-	-	-	372	0.00
Middlesex	-	-	-	-	412	0.00
Monmouth	-	-	-	-	420	0.00
Morris	-	1	-	1	483	0.00
Ocean	-	-	-	-	449	0.00
Passaic	-	-	-	-	386	0.00
Salem	-	-	-	-	529	0.00
Somerset	-	-	-	-	313	0.00
Sussex	-	-	-	-	420	0.00
Union	-	-	-	-	235	0.00
Warren	-	-	-	-	407	0.00
Total	**0**	**4**	**1**	**17**	**10995**	-

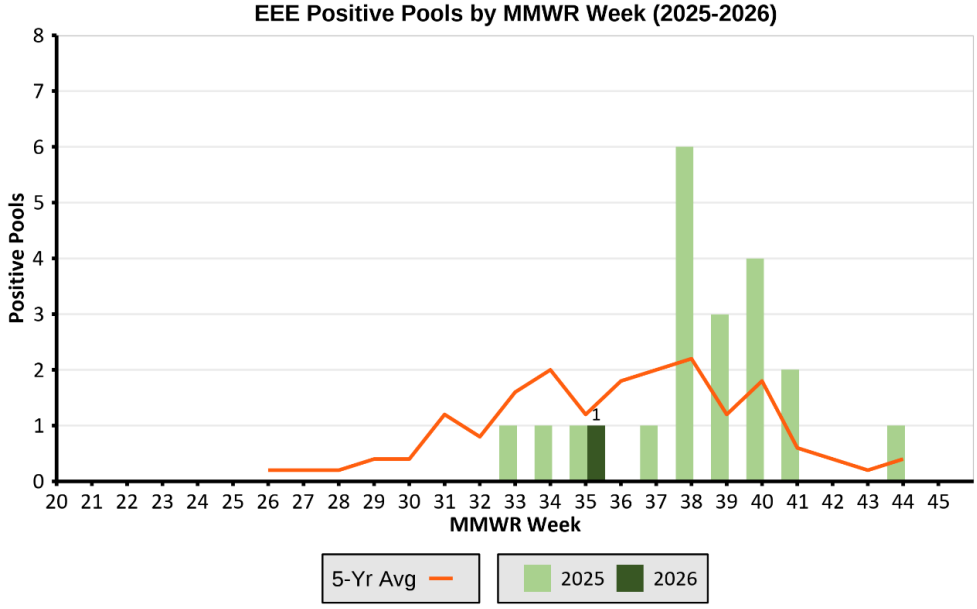
WEEK 40: Sep 28 - Oct 4, 2025; Oct 4 - 10, 2026

Cumulative EEE MIR, 2026



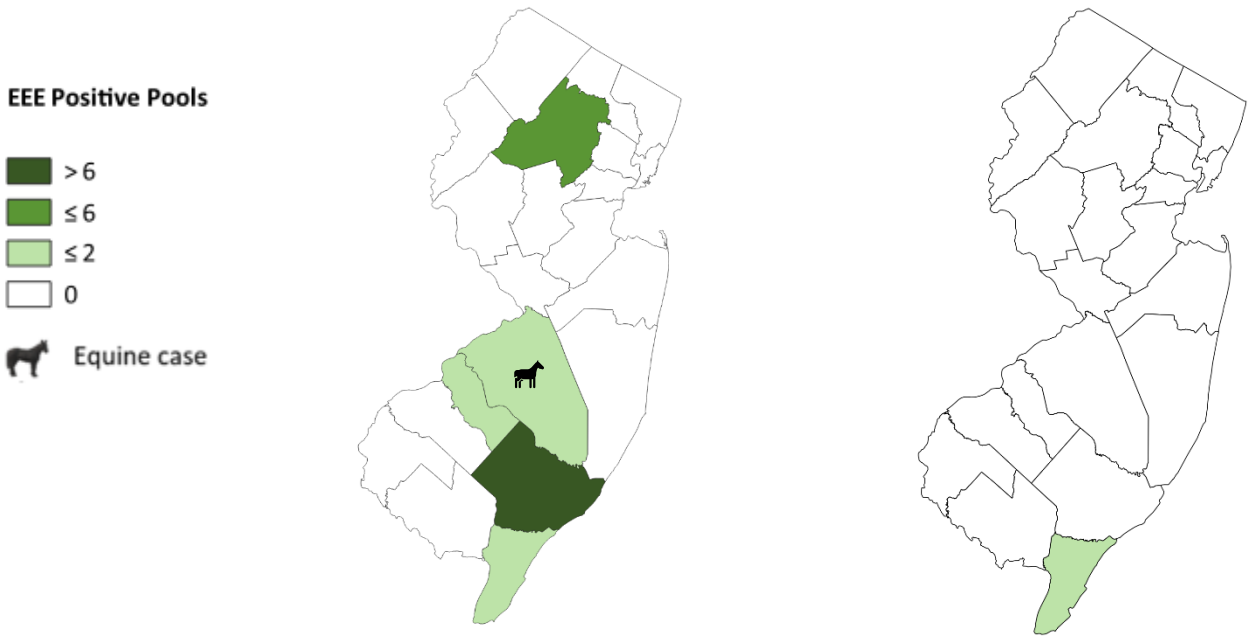
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

EEE Positive Pools by MMWR Week (2025-2026)



2025 EEE Activity

2026 EEE Activity



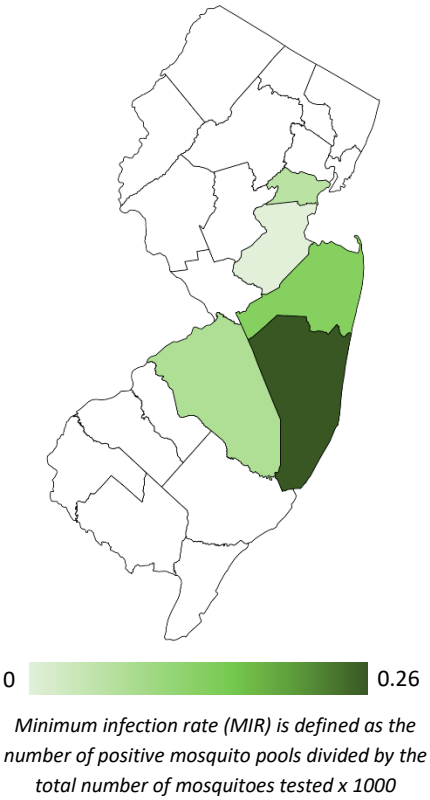
Jamestown Canyon Virus

- 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 10,995 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

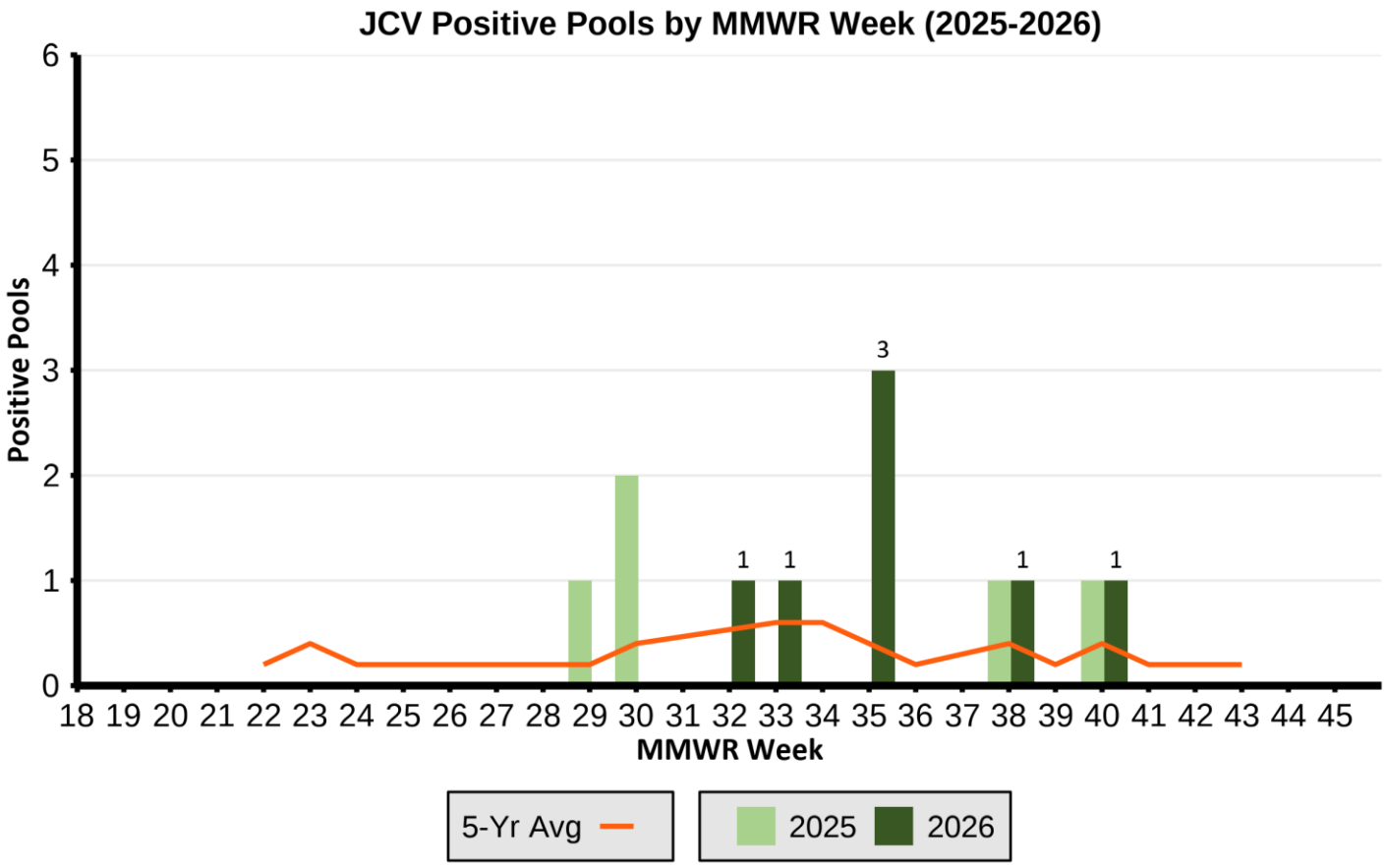
	WEEK 40 Positive Pools		Cumulative Pos. Total (WEEK 40)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Ocean	1	-	1	-	449	0.26
Monmouth	-	-	3	-	420	0.17
Burlington	-	-	1	-	348	0.13
Union	-	-	1	-	235	0.12
Middlesex	-	-	1	-	412	0.08
Atlantic	-	1	-	1	490	0.00
Bergen	-	-	-	-	465	0.00
Camden	-	-	-	-	626	0.00
Cape May	-	-	-	-	2339	0.00
Cumberland	-	-	-	-	415	0.00
Essex	-	-	-	-	467	0.00
Gloucester	-	-	-	-	773	0.00
Hudson	-	-	-	-	310	0.00
Hunterdon	-	-	-	-	336	0.00
Mercer	-	-	-	1	372	0.00
Morris	-	-	-	2	483	0.00
Passaic	-	-	-	-	386	0.00
Salem	-	-	-	-	529	0.00
Somerset	-	-	-	-	313	0.00
Sussex	-	-	-	1	420	0.00
Warren	-	-	-	-	407	0.00
Total	1	1	7	5	10995	-

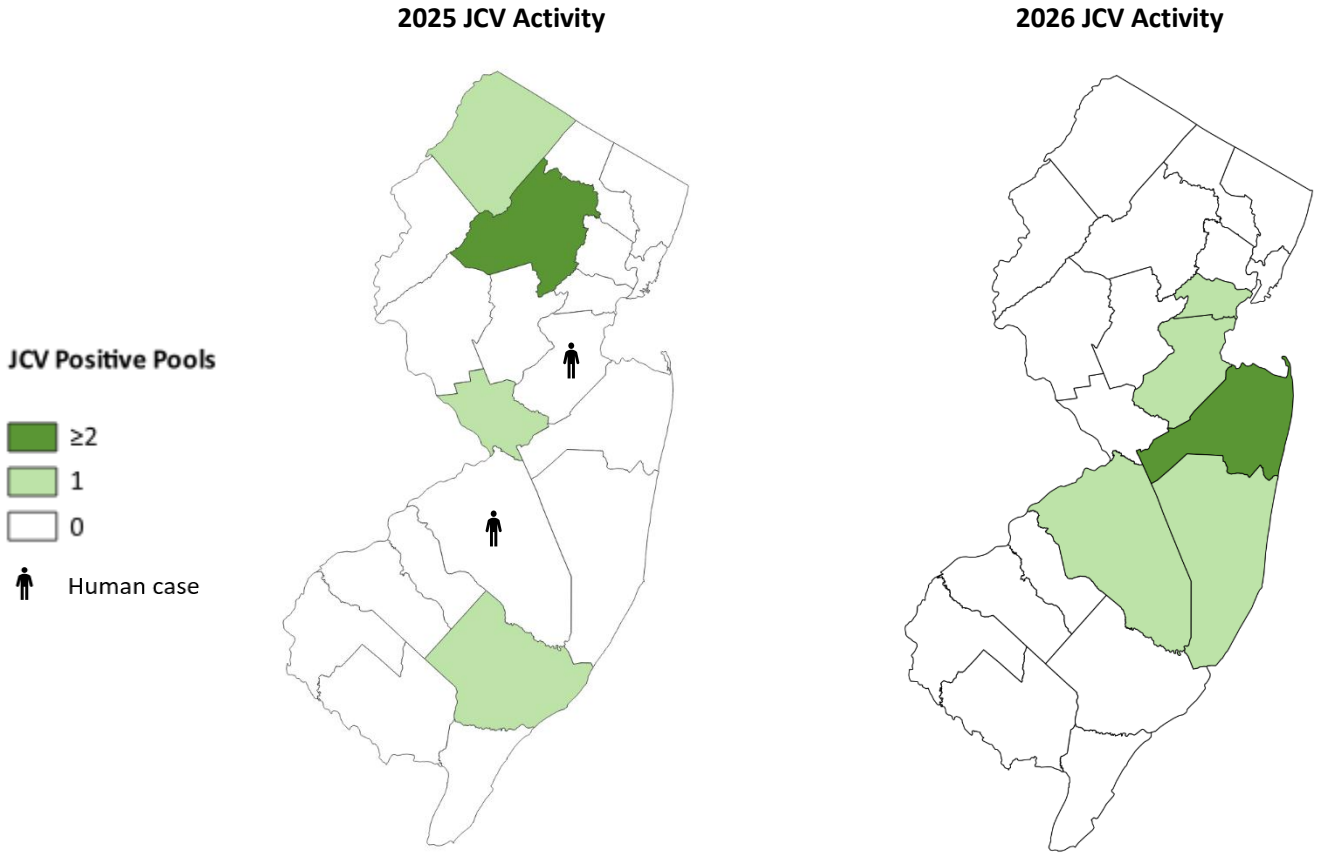
Cumulative JCV MIR, 2026



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

WEEK 40: Sep 28 - Oct 4, 2025; Oct 4 - 10, 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])

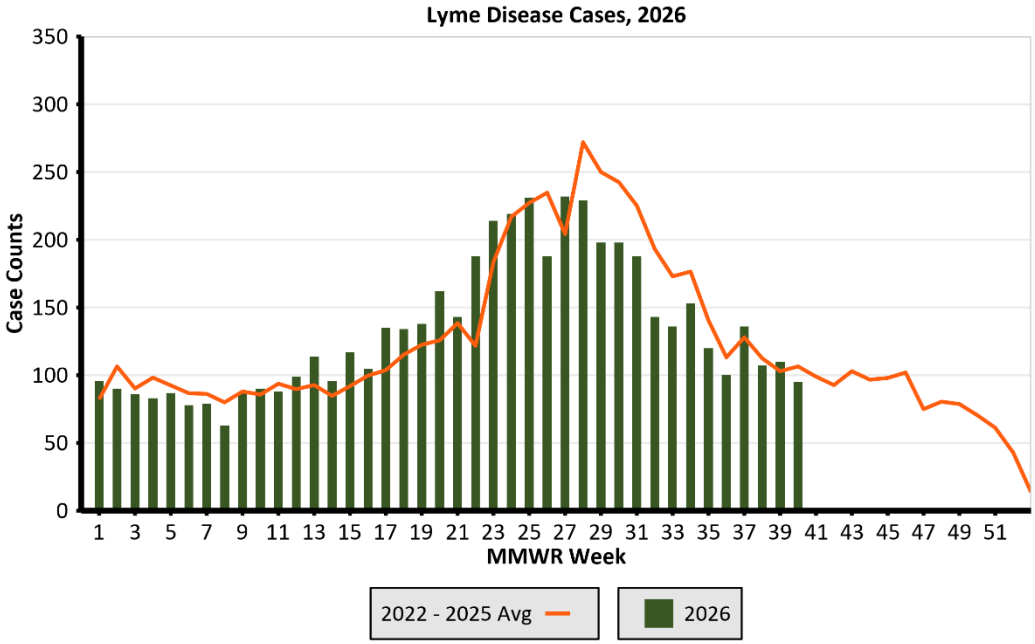
	SLE		LAC		CHIKV		DENV		ZIKV	
County	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	490									
Bergen	465				8		8		8	
Burlington	348		4							
Camden	626		2		18		18		18	
Cape May	2339									
Cumberland	415									
Essex	467									
Gloucester	773		102		91		91		91	
Hudson	310									
Hunterdon	336		7							
Mercer	372				1		1		1	
Middlesex	412		3		20		20		20	
Monmouth	420									
Morris	483				8		8		8	
Ocean	449		8							
Passaic	386		44							
Salem	529		50							
Somerset	313				1		1		1	
Sussex	420		128	1						
Union	235									
Warren	407		34							
Total	**10995**	**0**	**382**	**1**	**147**	**0**	**147**	**0**	**147**	**0**

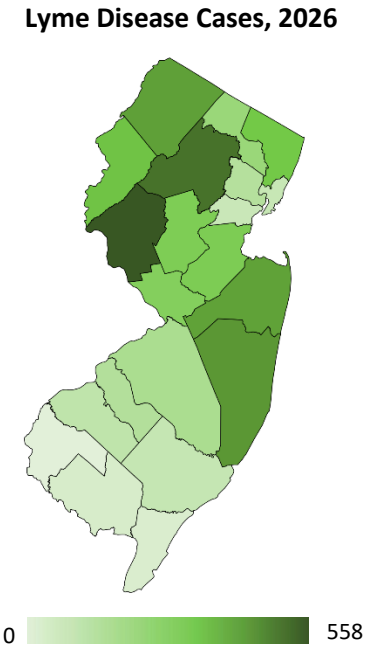
[a] St. Louis virus (SLE), La Crosse encephalitis (LAC), Chikungunya virus (CHIKV), Dengue virus (DENV), Zika Virus (ZIKV)
Numbers in white columns represent number of pools tested to date in 2026
Number in green shaded columns represent positive pools in 2026

Tickborne Disease Activity

Lyme Disease

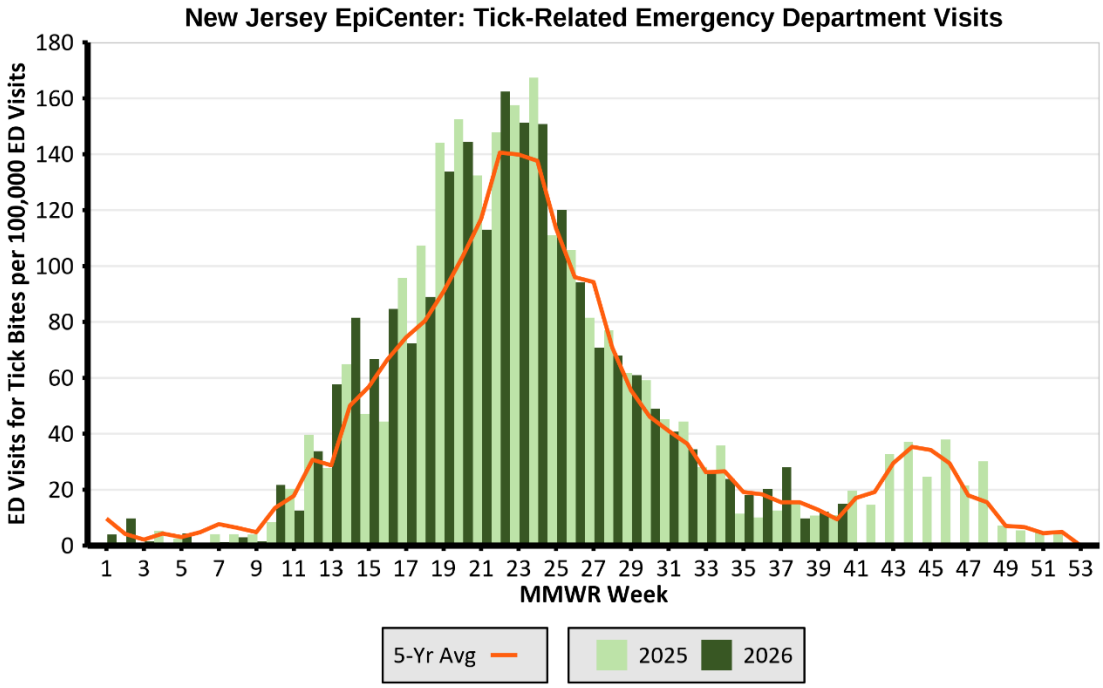
- There have been 5,390 cases of Lyme disease reported in NJ in 2026.
- The number of cases decreased slightly this week and is below the four-year average.
- Most Lyme disease cases have been reported in the northwestern part of the state (Hunterdon, Morris, and Sussex counties) as well as in Ocean 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 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/