

Vector-borne Surveillance Report

CDC Week 33: Aug 16 - 22, 2026

Highlights:

- *One human case of West Nile Virus (WNV) was reported in Monmouth County in week 32 and there have been two reported presumptive viremic donors (PVD).*
- *Since last week's report, 84 additional mosquito pools tested positive for WNV, for a total of 650 positive pools. The cumulative minimum infection rate is highest in Hudson and Bergen counties.*
- *The average number of Culex mosquitoes, which are associated with WNV transmission, was highest in Hudson County.*
- *One mosquito pool tested positive for Jamestown Canyon Virus (JCV) in week 33 from Middlesex County bringing the total this year to two. No human JCV cases have been reported in New Jersey in 2026 to date.*
- *There have been no human or animal cases, or mosquito detections of Eastern equine encephalitis (EEE) 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 continued to decrease and remains consistent with 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	368	526
Dengue	10	14	Anaplasmosis	176	312
Malaria	48	89	Babesiosis	143	373
West Nile	1	23	Ehrlichiosis	82	98
Zika	1	-	Hard Tick Relapsing Fever	4	14
Eastern Equine Encephalitis	-	-	Lyme Disease	4327	6597
Jamestown Canyon	-	-	Powassan	-	2
			Spotted Fever Group Rickettsioses	19	25
			Tularemia	3	1

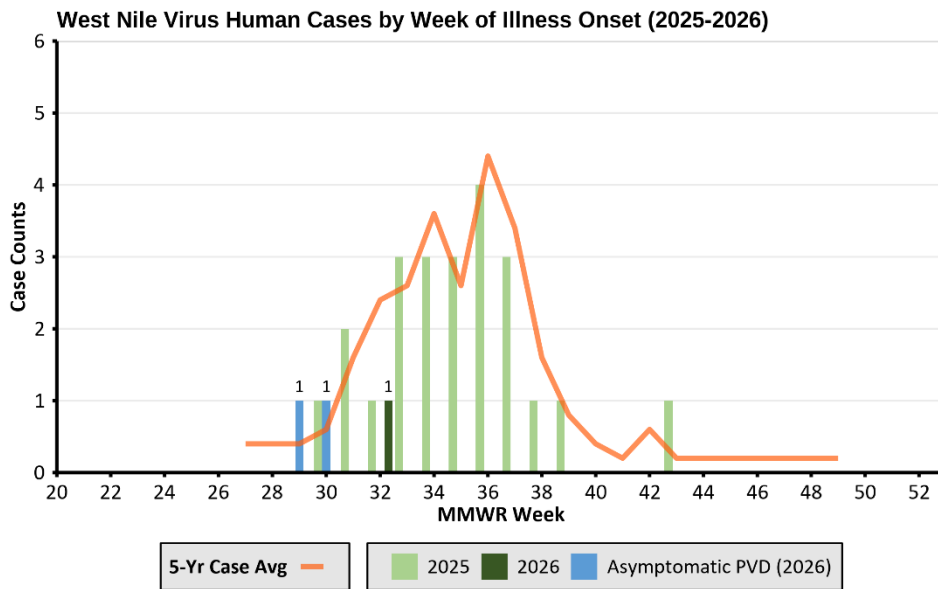
Mosquito-borne Disease Activity

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 August 27, 2026, at 12:00 pm.

West Nile Virus

- One human case of WNV has been reported in 2026 from Monmouth County. Two PVDs were reported in Bergen and Camden 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 7,149 pools tested, 650 have tested positive for WNV in 21 counties. Cumberland county recorded the first positive pool this week.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (544), *Cx. pipiens* (42), *Aedes albopictus* (25), *Ae. japonicus* (20), *Ae. vexans* (3), *Ae. triseriatus* (3), *Cx. restuans* (2), *Cx. salinarius* (2), *Anopheles punctipennis* (1), *Coquillettia perturbans* (1), *Ae. strictus* (1), *Ae. taeniorhynchus* (1), *Cx. territans* (1), and *Psorophora ciliata* (1) mosquitoes.

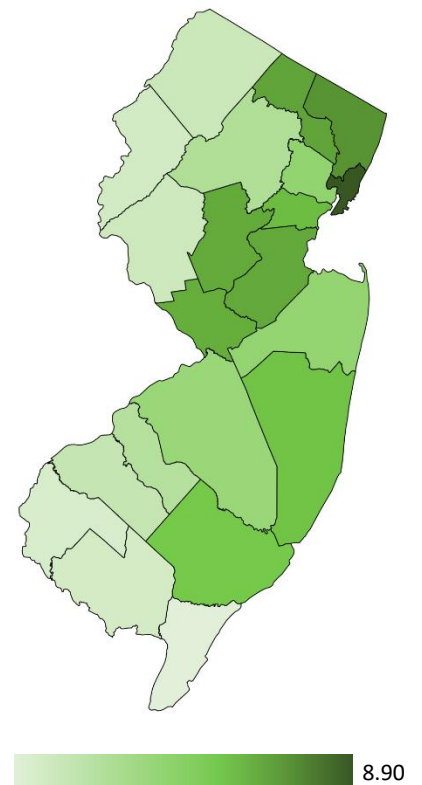


WNV Human Activity				
County	Cases		PVD*	
	2026	2025	2026	2025
Atlantic		2		
Bergen		2	1	
Burlington		2		2
Camden		1	1	
Cape May				
Cumberland				
Essex		1		
Gloucester		1		
Hudson		1		
Hunterdon				
Mercer		1		
Middlesex		4		2
Monmouth	1	2		
Morris		2		
Ocean				
Passaic		1		
Salem				
Somerset		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

WNV Mosquito Pool Testing						
County	WEEK 33 Positive Pools		Cumulative Pos. Total (WEEK 33)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025		
Hudson	9	6	76	38	195	8.90
Bergen	19	20	127	119	325	7.19
Passaic	-	4	43	13	250	6.64
Middlesex	10	16	64	65	280	6.46
Somerset	11	7	39	33	209	6.42
Mercer	7	7	28	27	248	6.28
Union	7	8	35	61	160	5.80
Ocean	3	4	15	9	302	5.55
Atlantic	-	5	46	30	343	5.27
Essex	1	7	25	55	346	3.95
Monmouth	7	5	52	31	280	3.81
Burlington	-	-	15	12	182	3.55
Morris	1	8	20	33	343	2.45
Camden	-	1	10	9	413	2.25
Gloucester	3	-	17	32	529	1.51
Sussex	-	7	11	28	282	1.25
Hunterdon	-	9	10	35	218	1.06
Warren	3	1	8	11	287	0.83
Cumberland	2	1	2	3	275	0.80
Salem	1	1	4	2	369	0.57
Cape May	-	2	3	12	1313	0.11
Total	84	119	650	658	7149	-

*Asymptomatic Presumptive Viremic Donors

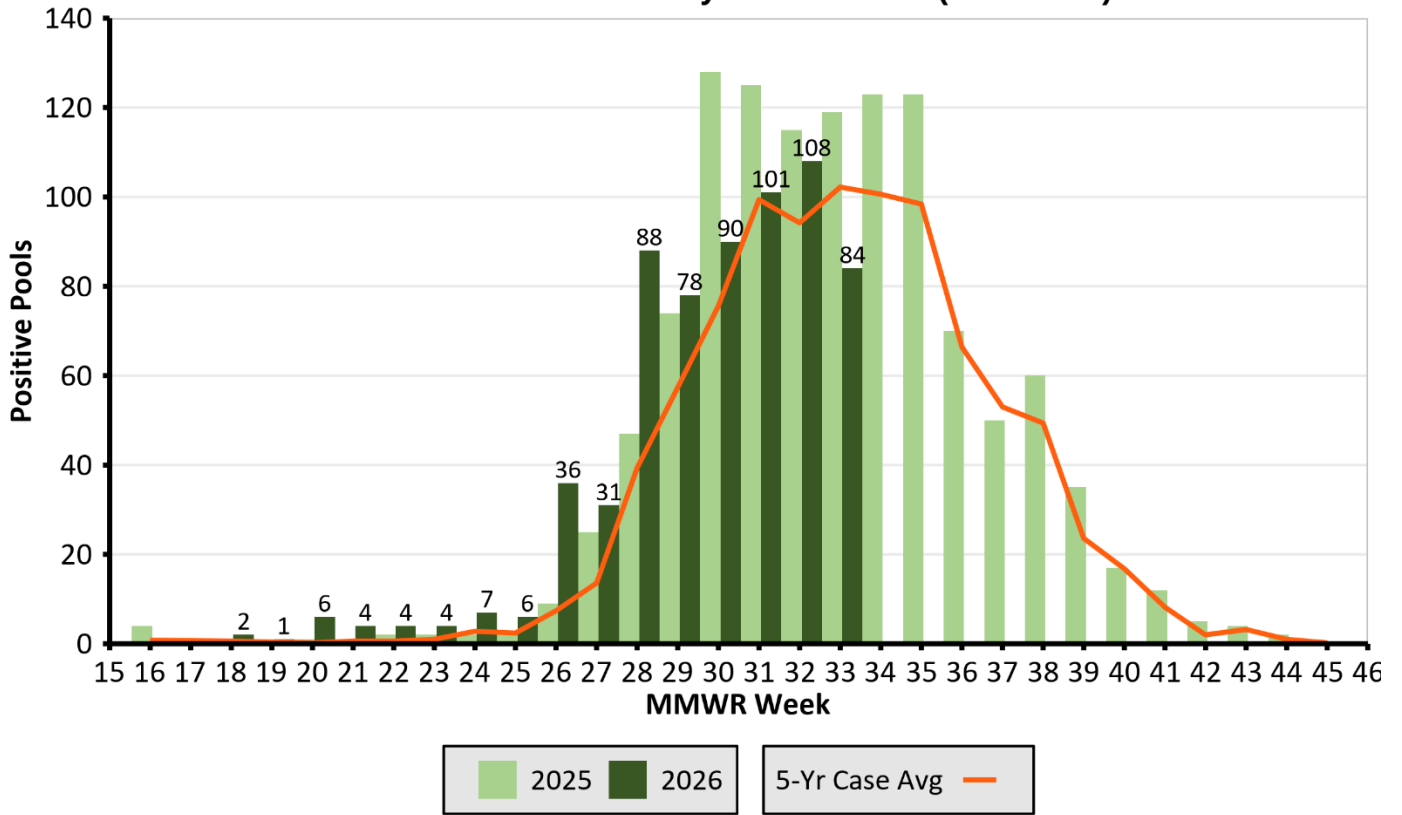
Cumulative WNV MIR, 2026



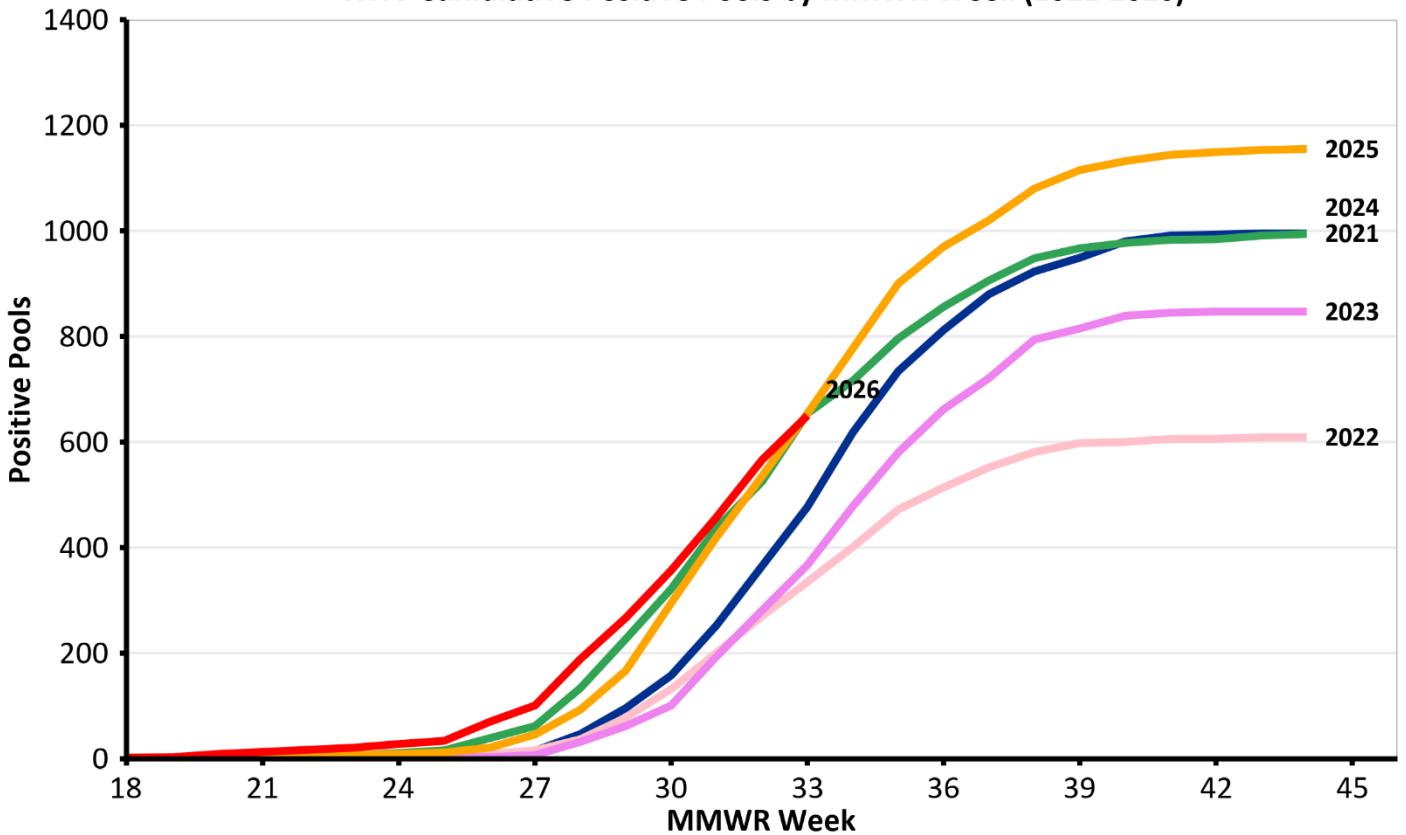
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

WEEK 33: Aug 10 - 16, 2025; Aug 16 - 22, 2026

WNV Positive Pools by MMWR Week (2025-2026)

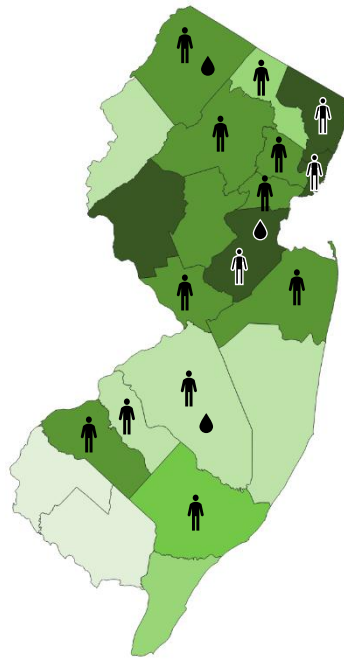
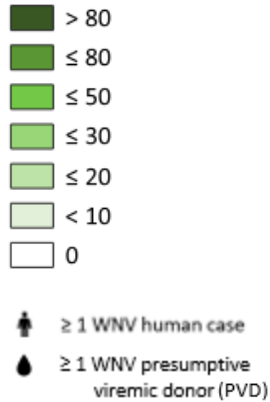


WNV Cumulative Positive Pools by MMWR Week (2021-2026)

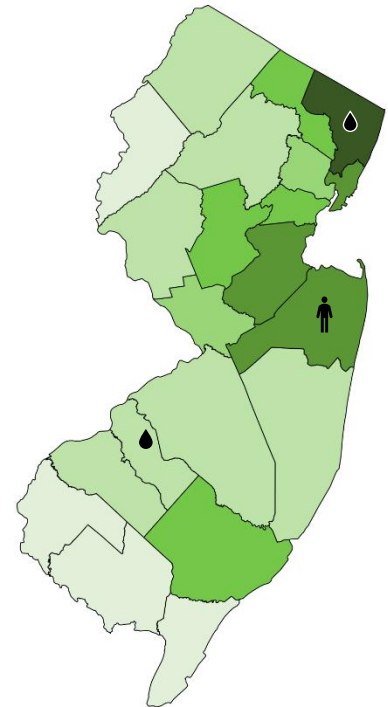


2025 WNV Activity

WNV Positive Pools



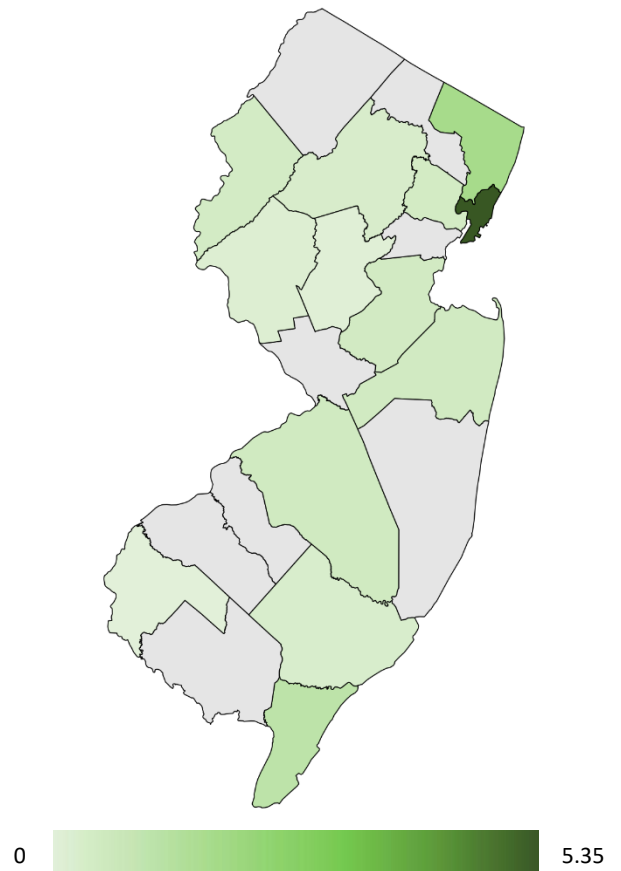
2026 WNV Activity



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

County	WEEK 32 - 33 Average Abundance*
Hudson	5.35
Bergen	1.74
Cape May	1.09
Burlington	0.56
Monmouth	0.53
Middlesex	0.51
Essex	0.50
Warren	0.47
Morris	0.35
Atlantic	0.32
Hunterdon	0.19
Somerset	0.11
Salem	0.04
Camden	No available data
Cumberland	No available data
Gloucester	No available data
Mercer	No available data
Ocean	No available data
Passaic	No available data
Sussex	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 32 – 33*



* 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.

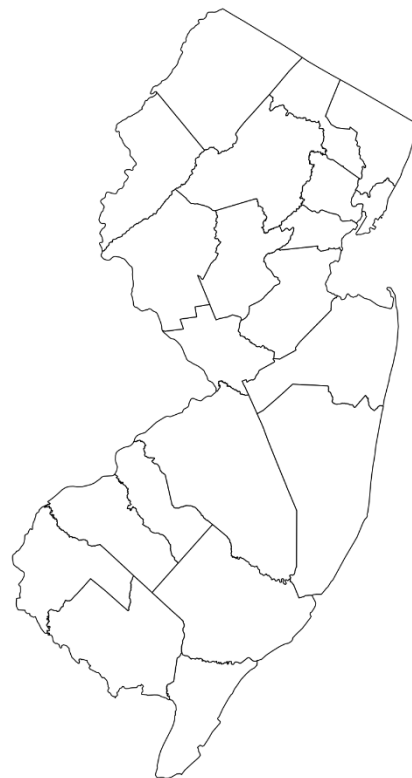
Eastern Equine Encephalitis

- 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 7,099 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 33 Positive Pools		Cumulative Pos. Total (WEEK 33)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025	2026	2026 ¹
Atlantic	-	1	-	1	343	0.00
Bergen	-	-	-	-	325	0.00
Burlington	-	-	-	-	181	0.00
Camden	-	-	-	-	411	0.00
Cape May	-	-	-	-	1313	0.00
Cumberland	-	-	-	-	275	0.00
Essex	-	-	-	-	346	0.00
Gloucester	-	-	-	-	505	0.00
Hudson	-	-	-	-	195	0.00
Hunterdon	-	-	-	-	215	0.00
Mercer	-	-	-	-	248	0.00
Middlesex	-	-	-	-	280	0.00
Monmouth	-	-	-	-	280	0.00
Morris	-	-	-	-	343	0.00
Ocean	-	-	-	-	297	0.00
Passaic	-	-	-	-	250	0.00
Salem	-	-	-	-	369	0.00
Somerset	-	-	-	-	209	0.00
Sussex	-	-	-	-	282	0.00
Union	-	-	-	-	160	0.00
Warren	-	-	-	-	272	0.00
Total	0	1	0	1	7099	-

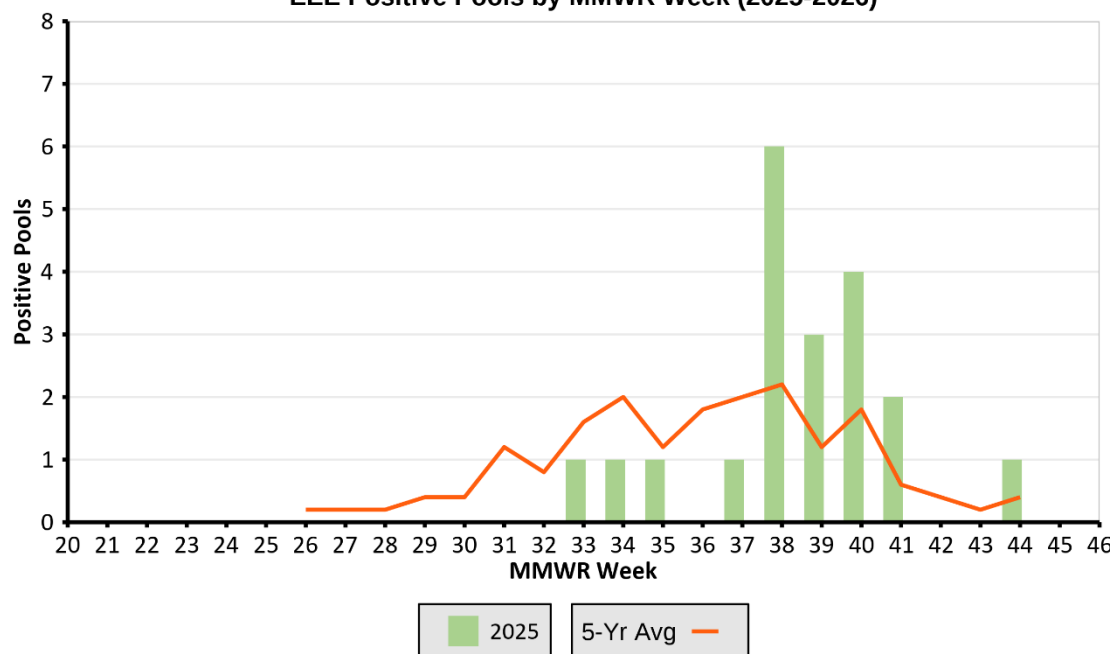
WEEK 33: Aug 10 - 16, 2025; Aug 16 - 22, 2026

Cumulative EEE MIR, 2026



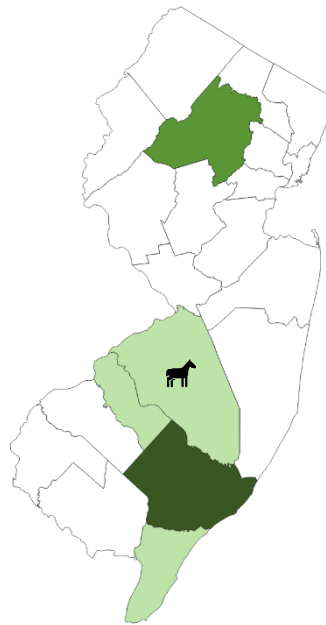
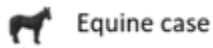
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EEE Positive Pools by MMWR Week (2025-2026)

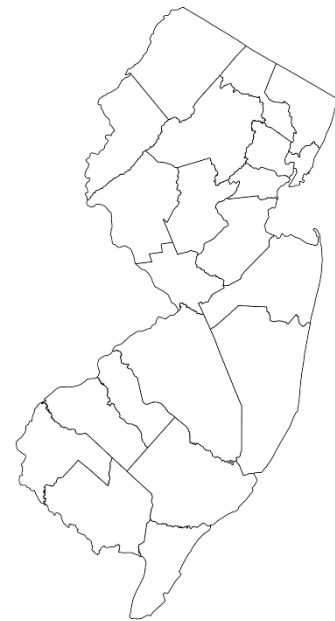


2025 EEE Activity

EEE Positive Pools



2026 EEE Activity



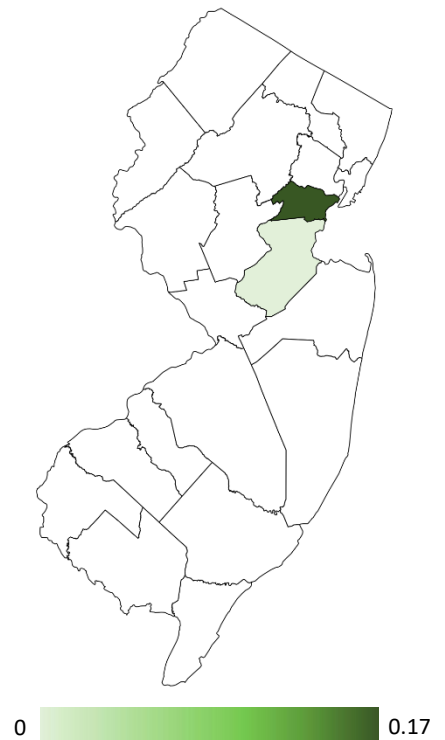
Jamestown Canyon Virus

- 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 7,099 mosquito pools from 21 counties tested for JCV, two pools were positive in Union and Middlesex counties.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

JCV Mosquito Pool Testing

County	WEEK 33 Positive Pools		Cumulative Pos. Total (WEEK 33)		# Pools Tested	Cumulative MIR
	2026	2025	2026	2025		2026 ¹
Union	-	-	1	-	160	0.17
Middlesex	1	-	1	-	280	0.10
Atlantic	-	-	-	-	343	0.00
Bergen	-	-	-	-	325	0.00
Burlington	-	-	-	-	181	0.00
Camden	-	-	-	-	411	0.00
Cape May	-	-	-	-	1313	0.00
Cumberland	-	-	-	-	275	0.00
Essex	-	-	-	-	346	0.00
Gloucester	-	-	-	-	505	0.00
Hudson	-	-	-	-	195	0.00
Hunterdon	-	-	-	-	215	0.00
Mercer	-	-	-	-	248	0.00
Monmouth	-	-	-	-	280	0.00
Morris	-	-	-	2	343	0.00
Ocean	-	-	-	-	297	0.00
Passaic	-	-	-	-	250	0.00
Salem	-	-	-	-	369	0.00
Somerset	-	-	-	-	209	0.00
Sussex	-	-	-	1	282	0.00
Warren	-	-	-	-	272	0.00
Total	1	0	2	3	7099	-

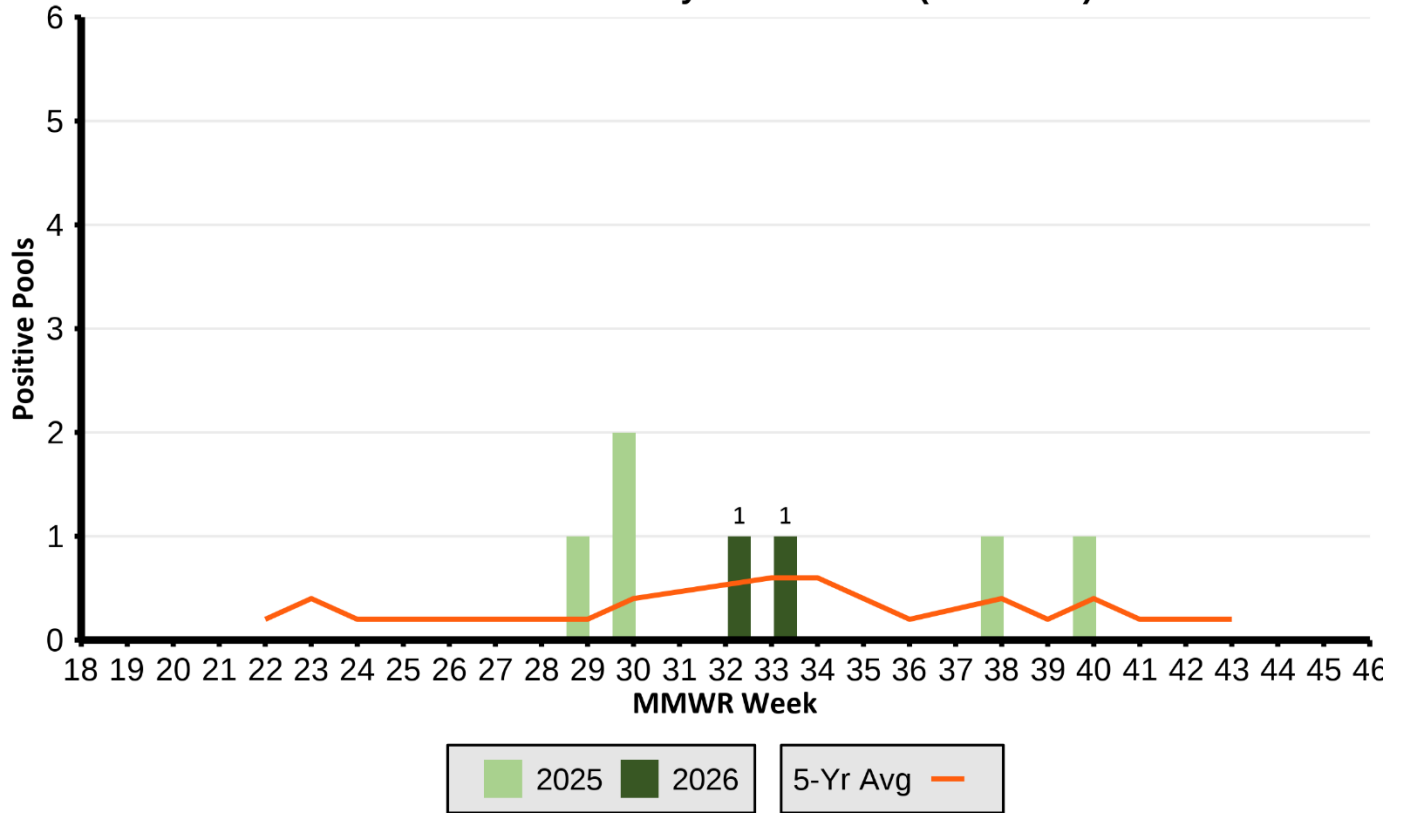
Cumulative JCV MIR, 2026



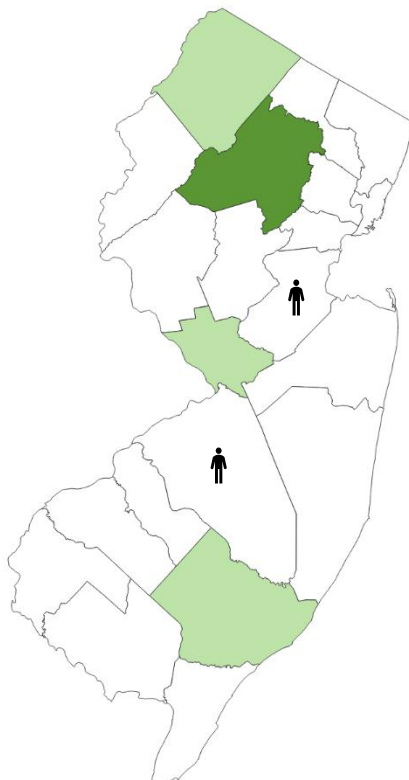
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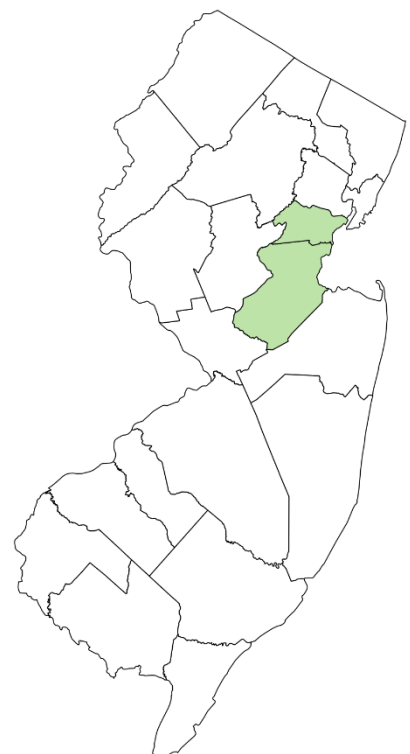
JCV Positive Pools by MMWR Week (2025-2026)



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 9 counties have been tested for La Crosse encephalitis with no positive results.
- Mosquito pools in 5 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	343									
Bergen	325				5		5		5	
Burlington	181		1							
Camden	411		2		3		3		3	
Cape May	1313									
Cumberland	275									
Essex	346									
Gloucester	505		75		74		74		74	
Hudson	195									
Hunterdon	215		3							
Mercer	248									
Middlesex	280				12		12		12	
Monmouth	280									
Morris	343				6		6		6	
Ocean	297		7							
Passaic	250		28							
Salem	369		35							
Somerset	209									
Sussex	282		30							
Union	160									
Warren	272		16							
Total	7099	0	197	0	100	0	100	0	100	0

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

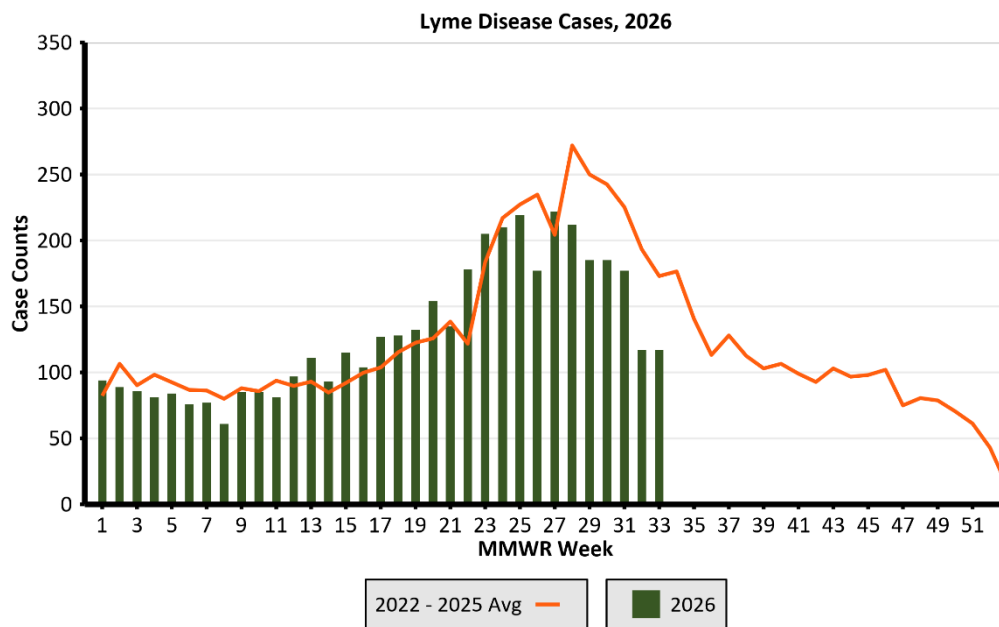
Numbers in white columns represent number of pools tested to date in 2026

Number in green shaded columns represent positive pools in 2026

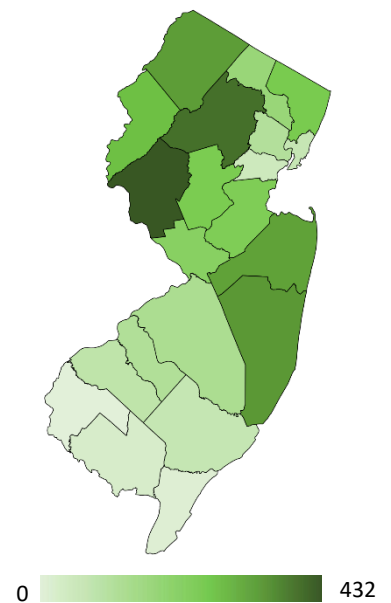
Tickborne Disease Activity

Lyme Disease

- There have been 4,327 cases of Lyme disease reported in NJ in 2026.
- The number of cases reported in Week 33 continues to be 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 County.

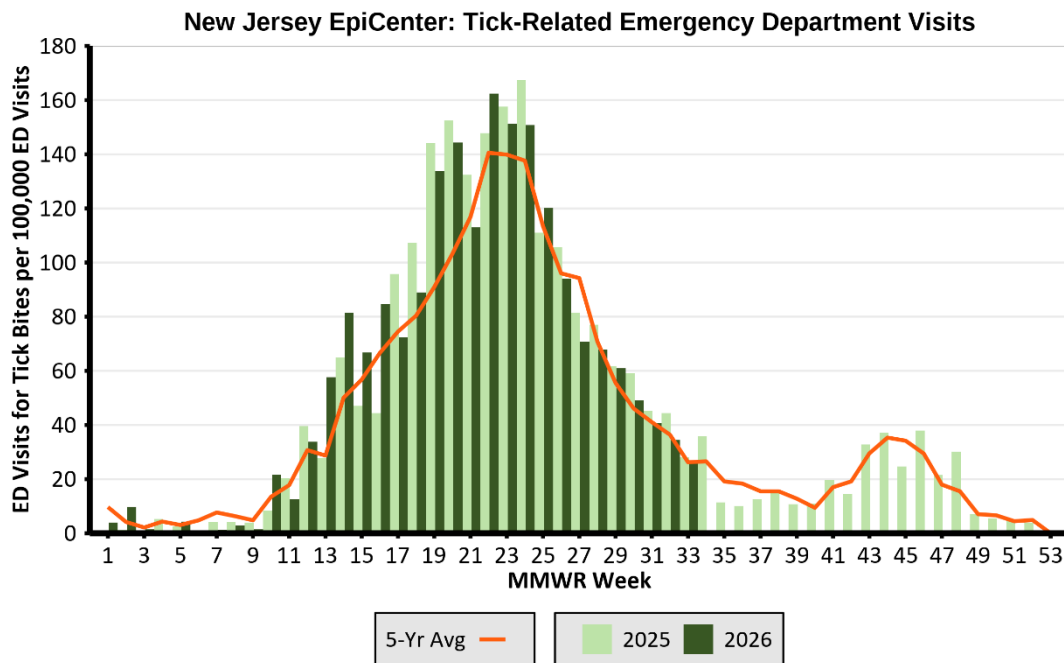


Lyme Disease Cases, 2026



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 continued to decline and is at 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/>