Vector-borne Surveillance Report

CDC Week 43: Oct 24 - 31, 2026

Highlights:

- ***No additional cases of West Nile virus (WNV) are reported this week. To date, in 2026 there have been 38 cases, including five deaths, and six presumptive viremic donors (PVDs). WNV cases have been reported in 15 counties, with the highest numbers reported in Camden (6), Monmouth (6), and Mercer (4).***
- ***Since last week's report, five additional mosquito pools tested positive for WNV, for a total of 1,300 positive pools for the season, which is higher than historical trends.***
- ***To date, one mosquito pool has tested positive for Eastern Equine Encephalitis (EEE), eight pools for JCV, and one pool for La Crosse virus (LAC).***
- ***The number of tick-related emergency department (ED) visits increased this week compared with the previous week and remained consistent with the historical average. The number of ED visits is expected to remain elevated in the coming weeks as adult blacklegged tick activity persists.***
- ***Reported cases of dengue, ehrlichiosis, spotted fever group rickettsioses, tularemia, and WNV have exceeded 2025 totals.***

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	**3**	10	Alpha-Gal Syndrome	**553**	556
Dengue	**24**	14	Anaplasmosis	**214**	312
Malaria	**67**	89	Babesiosis	**183**	373
West Nile	**38**	23	Ehrlichiosis	**100**	98
Zika	**1**	-	Hard Tick Relapsing Fever	**6**	14
Eastern Equine Encephalitis	**-**	-	Lyme Disease	**5677**	6596
Jamestown Canyon	**-**	-	Powassan	**-**	2
			Spotted Fever Group Rickettsioses	**32**	25
			Tularemia	**4**	1

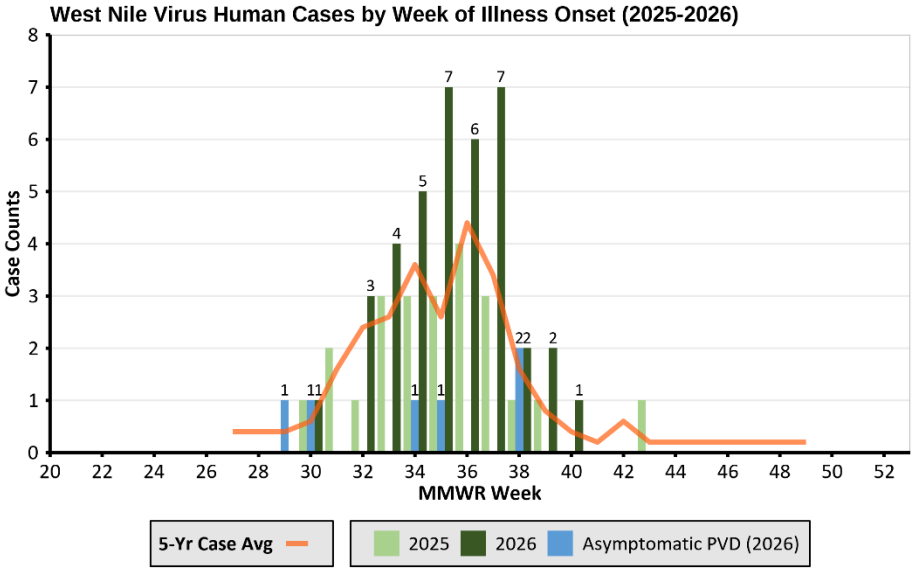
Mosquito-borne Disease Activity

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 November 05, 2026, at 12:00 pm.

West Nile Virus

- Thirty-eight human cases of WNV have been reported in 2026 from 15 counties, including five deaths, and six PVDs have been reported from five counties. No animal cases of WNV were 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 11,862 pools tested, 1,300 have tested positive for WNV in 21 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (1,074), *Cx. pipiens* (78), *Aedes albopictus* (56), *Ae. japonicus* (37), *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	
Essex	3	1		
Atlantic	2	2		
Bergen	2	2	1	
Burlington	2	2		2
Gloucester	2	1		
Hudson	2	1		
Middlesex	2	4	1	2
Ocean	2		1	
Passaic	2	1		
Somerset	1			
Union	1	2		
Warren	1			
Cape May				
Cumberland				
Hunterdon				
Morris		2		
Salem				
Sussex		1		1
Total	**38**	**23**	**6**	**5**

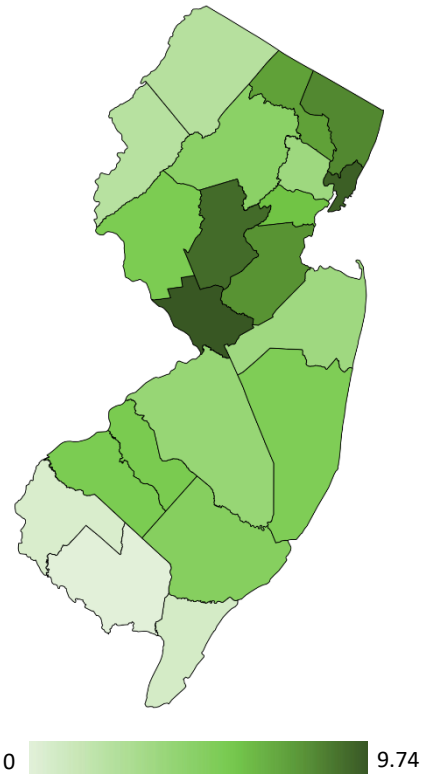
*Asymptomatic Presumptive Viremic Donors

WNV Mosquito Pool Testing

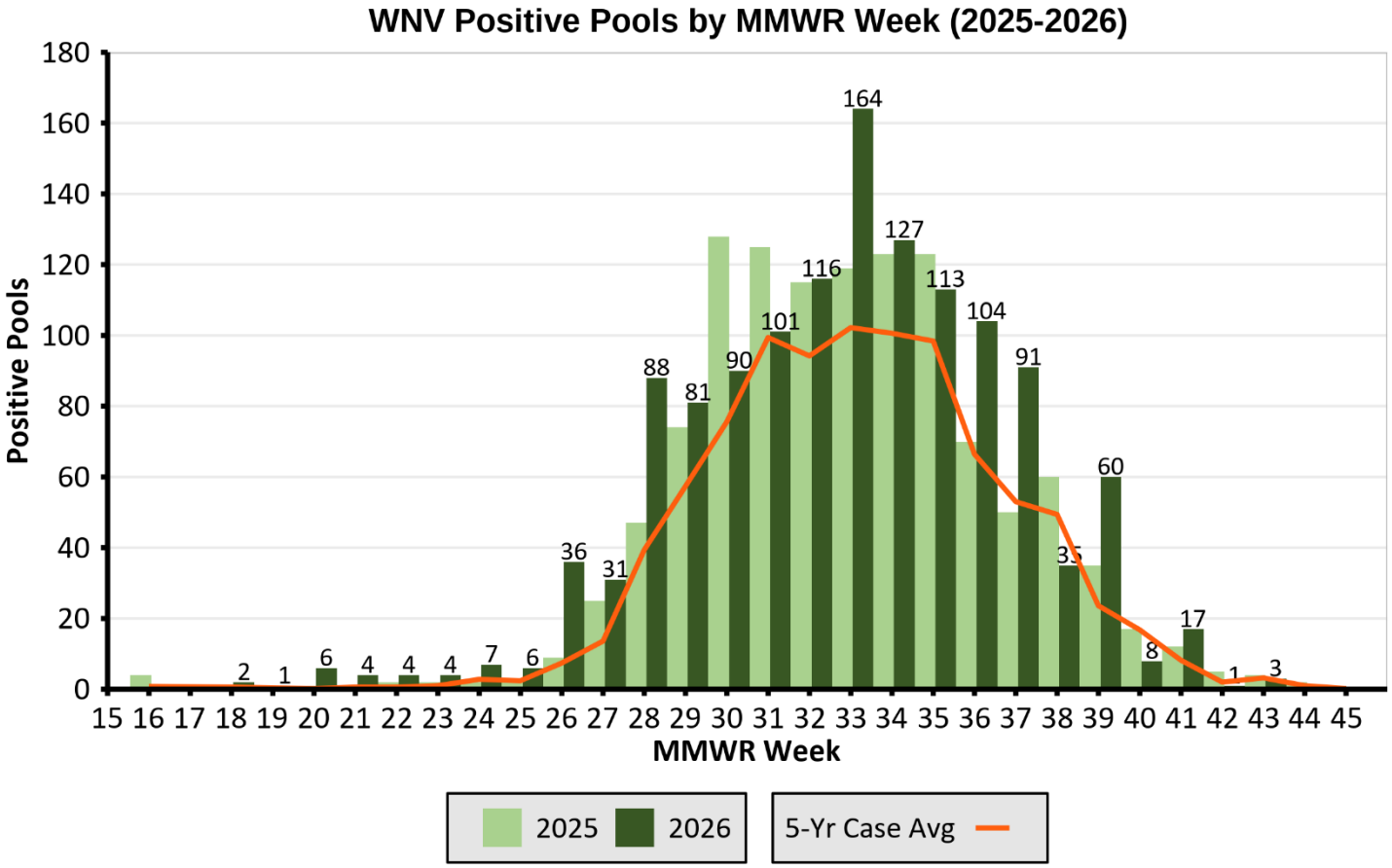
	WEEK 43 Positive Pools		Cumulative Pos. Total (WEEK 43)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Mercer	-	-	56	65	372	9.74
Hudson	-	2	122	86	344	9.50
Somerset	-	-	71	64	328	9.14
Bergen	3	1	215	213	503	8.29
Middlesex	-	1	107	108	445	7.97
Passaic	-	-	58	21	398	7.47
Union	-	-	52	70	235	6.20
Camden	-	-	41	19	689	5.70
Gloucester	-	-	98	65	883	5.63
Hunterdon	-	-	79	81	354	5.62
Ocean	-	-	23	14	495	5.46
Atlantic	-	-	57	43	536	5.13
Morris	-	-	53	61	483	4.86
Burlington	-	-	37	19	391	4.24
Essex	-	-	29	59	490	3.87
Monmouth	-	-	69	54	460	3.84
Sussex	-	-	37	58	561	2.70
Warren	-	-	34	16	474	2.61
Cape May	-	-	51	29	2383	1.16
Salem	-	-	9	8	583	0.94
Cumberland	-	-	2	4	455	0.46
Total	**3**	**4**	**1300**	**1157**	**11862**	-

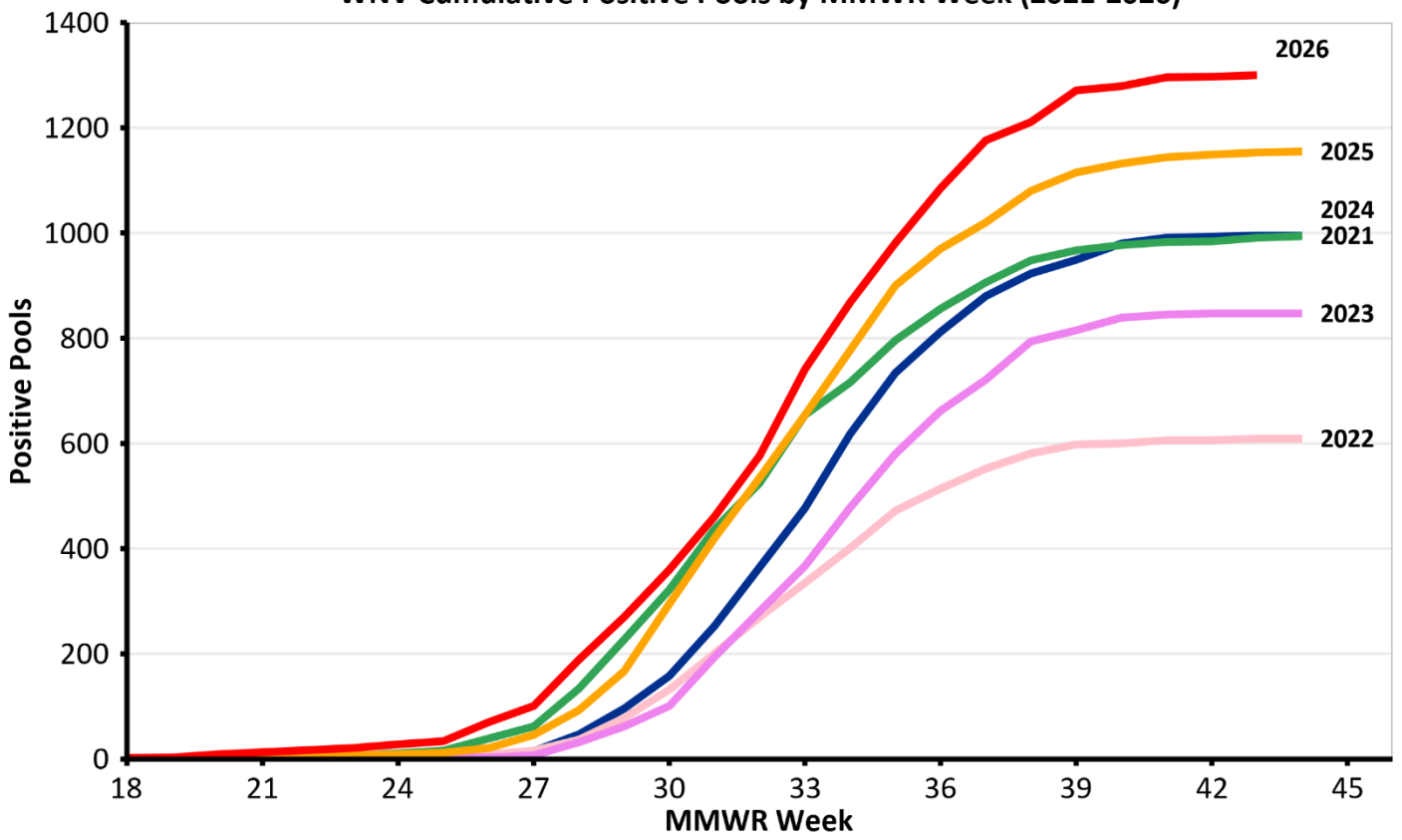
WEEK 43: Oct 19 - 25, 2025; Oct 24 - 31, 2026

Cumulative WNV MIR, 2026



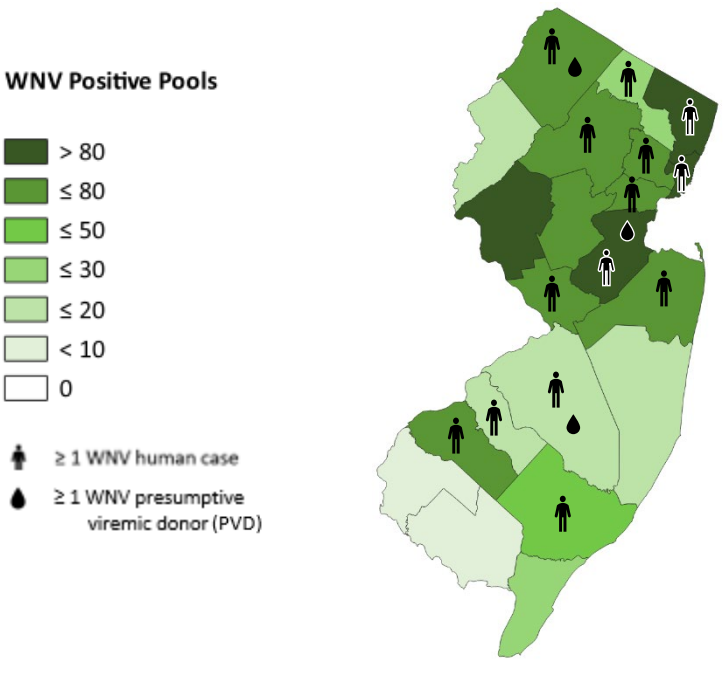
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000


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


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

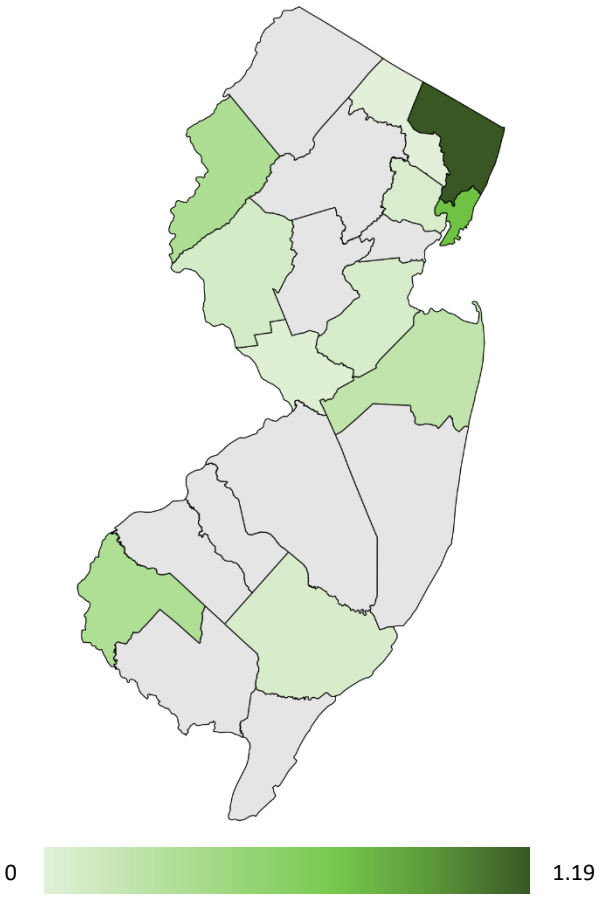
2025 WNV Activity

2026 WNV Activity



Average *Culex* Mosquitoes per Trap Night (average mosquito abundance)	
County	**WEEK 42 - 43 Average Abundance***
Bergen	1.19
Hudson	0.75
Warren	0.34
Salem	0.33
Monmouth	0.21
Hunterdon	0.09
Middlesex	0.07
Atlantic	0.07
Essex	0.06
Mercer	0.03
Passaic	0.00
Burlington	No available data
Camden	No available data
Cape May	No available data
Cumberland	No available data
Gloucester	No available data
Morris	No available data
Ocean	No available data
Somerset	No available data
Sussex	No available data
Union	No available data

Average Mosquito Abundance, *Culex* spp., Week 42 – 43[*]



[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

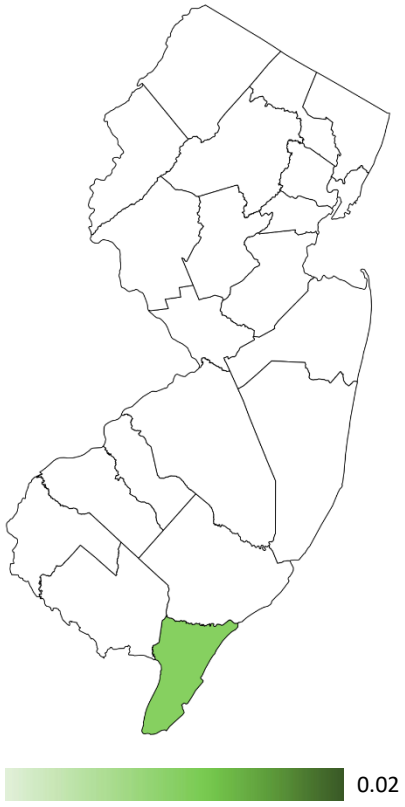
- There have been no human or animal cases of EEE reported in 2026. EEE human cases were last reported in 2024 (2 cases).
- In 2025, the first EEE positive pool was detected in week 33 in Atlantic County.

EEE Mosquito Pool Testing

	WEEK 43 Positive Pools		Cumulative Pos. Total (WEEK 43)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Cape May	-	-	1	2	2383	0.02
Atlantic	-	-	-	11	536	0.00
Bergen	-	-	-	-	503	0.00
Burlington	-	-	-	1	387	0.00
Camden	-	-	-	2	687	0.00
Cumberland	-	-	-	-	455	0.00
Essex	-	-	-	-	490	0.00
Gloucester	-	-	-	-	859	0.00
Hudson	-	-	-	-	344	0.00
Hunterdon	-	-	-	-	347	0.00
Mercer	-	-	-	-	372	0.00
Middlesex	-	-	-	-	442	0.00
Monmouth	-	-	-	-	460	0.00
Morris	-	-	-	3	483	0.00
Ocean	-	-	-	-	489	0.00
Passaic	-	-	-	-	398	0.00
Salem	-	-	-	-	582	0.00
Somerset	-	-	-	-	328	0.00
Sussex	-	-	-	-	479	0.00
Union	-	-	-	-	235	0.00
Warren	-	-	-	-	435	0.00
Total	**0**	**0**	**1**	**19**	**11694**	-

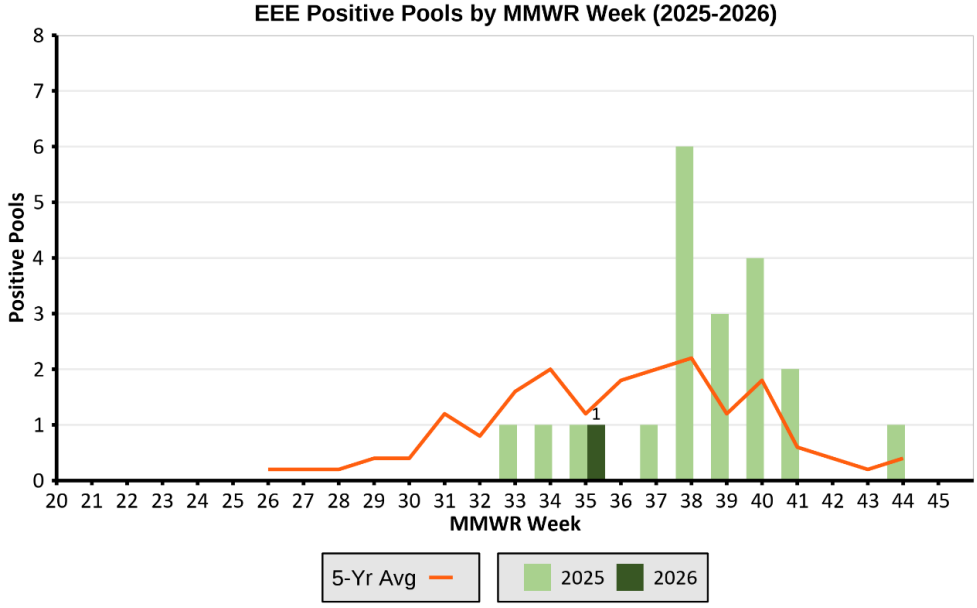
WEEK 43: Oct 19 - 25, 2025; Oct 24 - 31, 2026

Cumulative EEE MIR, 2026



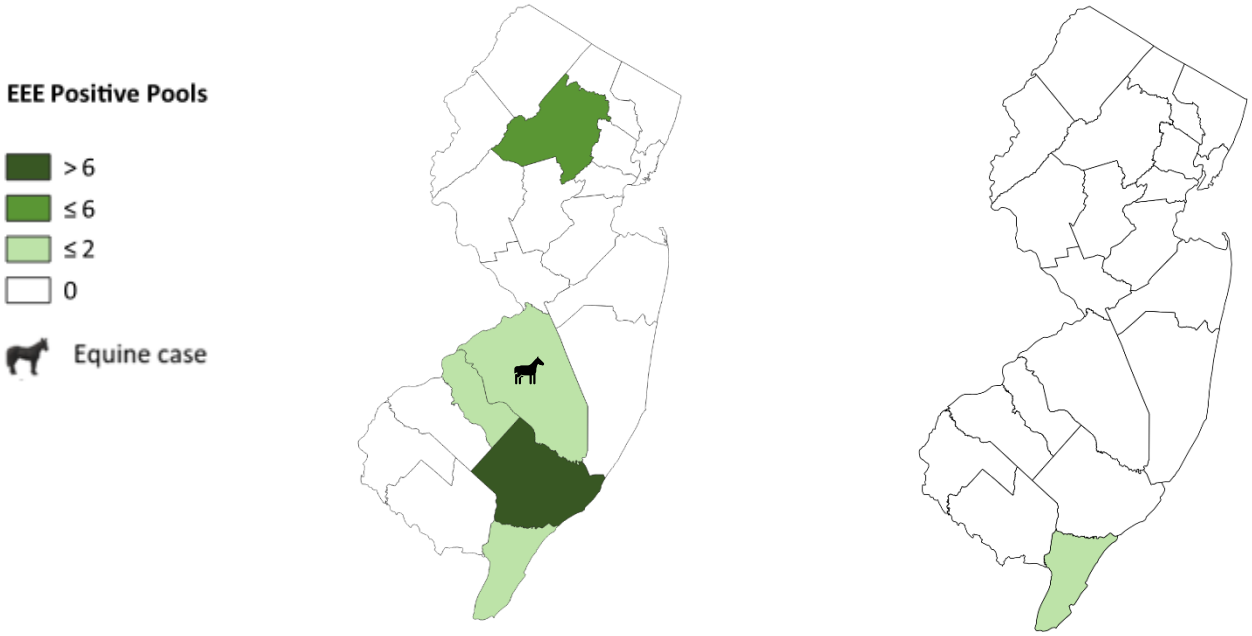
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

EEE Positive Pools by MMWR Week (2025-2026)



2025 EEE Activity

2026 EEE Activity



Jamestown Canyon Virus

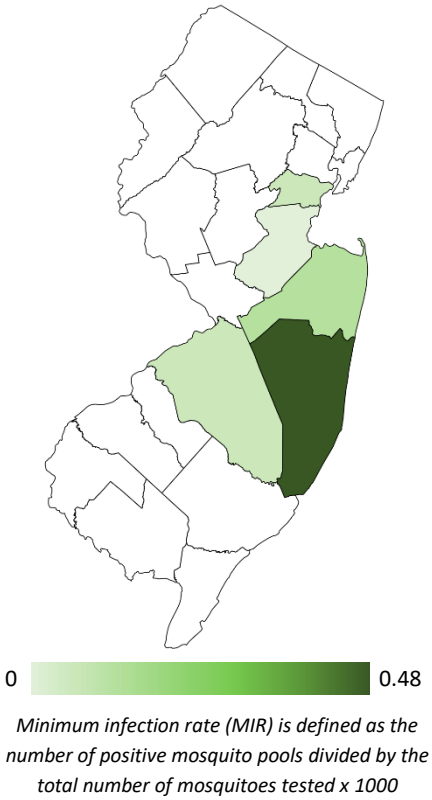
- No human cases of JCV were reported in NJ in 2026. In 2025, there were two human cases from Middlesex and Burlington counties.
- Out of 11,694 mosquito pools tested for JCV, eight pools were positive in Monmouth (3), Ocean (2), Burlington, Middlesex, and Union counties. JCV was detected in *Ps. columbiae* (3), *Ae. albopictus* (1), *Ae. atlanticus/tormentor* (1), *An. bradleyi* (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

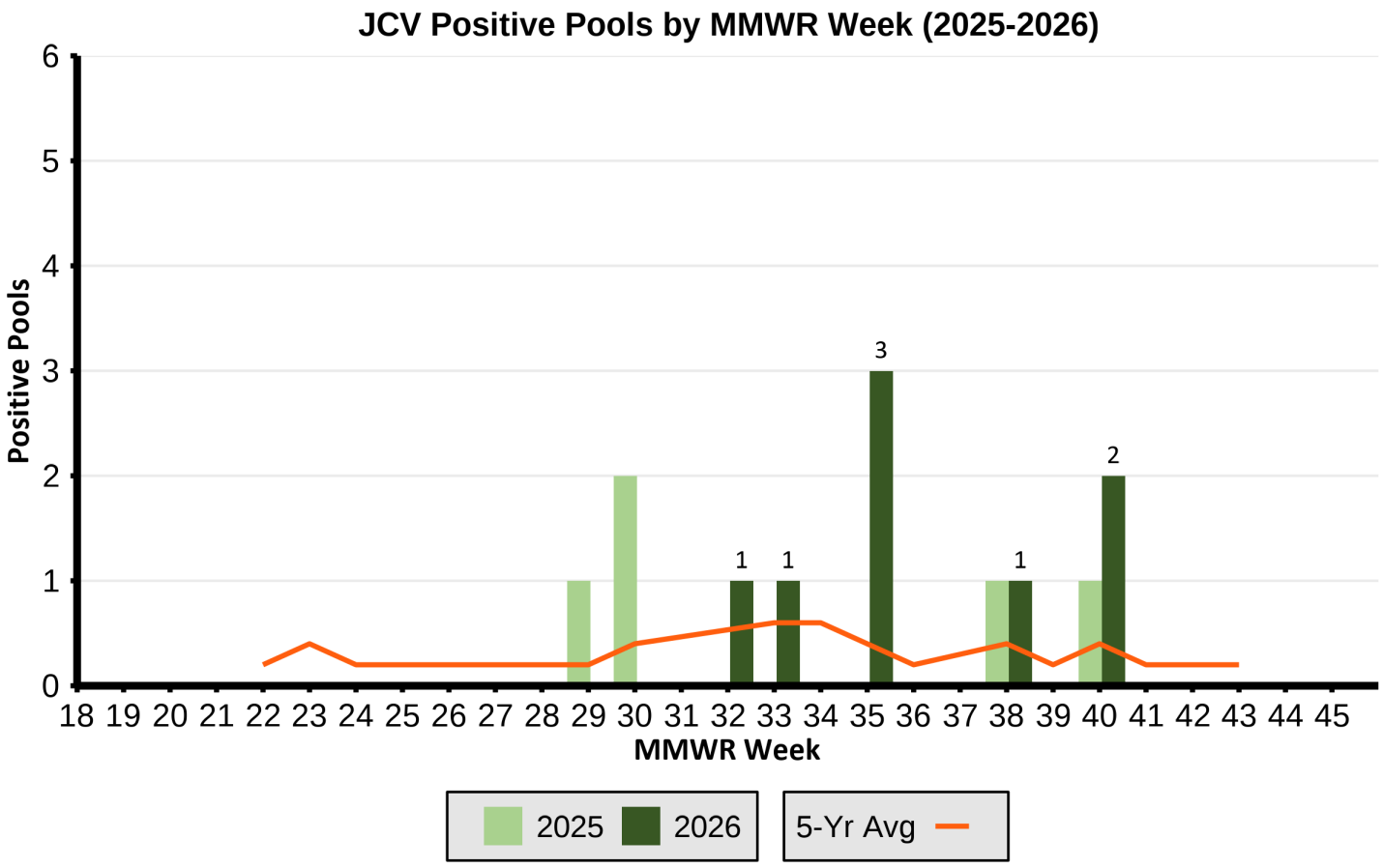
	WEEK 43 Positive Pools		Cumulative Pos. Total (WEEK 43)		# Pools Tested	Cumulative MIR
County	2026	2025	2026	2025	2026	2026[1]
Ocean	-	-	2	-	489	0.48
Monmouth	-	-	3	-	460	0.17
Union	-	-	1	-	235	0.12
Burlington	-	-	1	-	387	0.12
Middlesex	-	-	1	-	442	0.07
Atlantic	-	-	-	1	536	0.00
Bergen	-	-	-	-	503	0.00
Camden	-	-	-	-	687	0.00
Cape May	-	-	-	-	2383	0.00
Cumberland	-	-	-	-	455	0.00
Essex	-	-	-	-	490	0.00
Gloucester	-	-	-	-	859	0.00
Hudson	-	-	-	-	344	0.00
Hunterdon	-	-	-	-	347	0.00
Mercer	-	-	-	1	372	0.00
Morris	-	-	-	2	483	0.00
Passaic	-	-	-	-	398	0.00
Salem	-	-	-	-	582	0.00
Somerset	-	-	-	-	328	0.00
Sussex	-	-	-	1	479	0.00
Warren	-	-	-	-	435	0.00
Total	**0**	**0**	**8**	**5**	**11694**	**-**

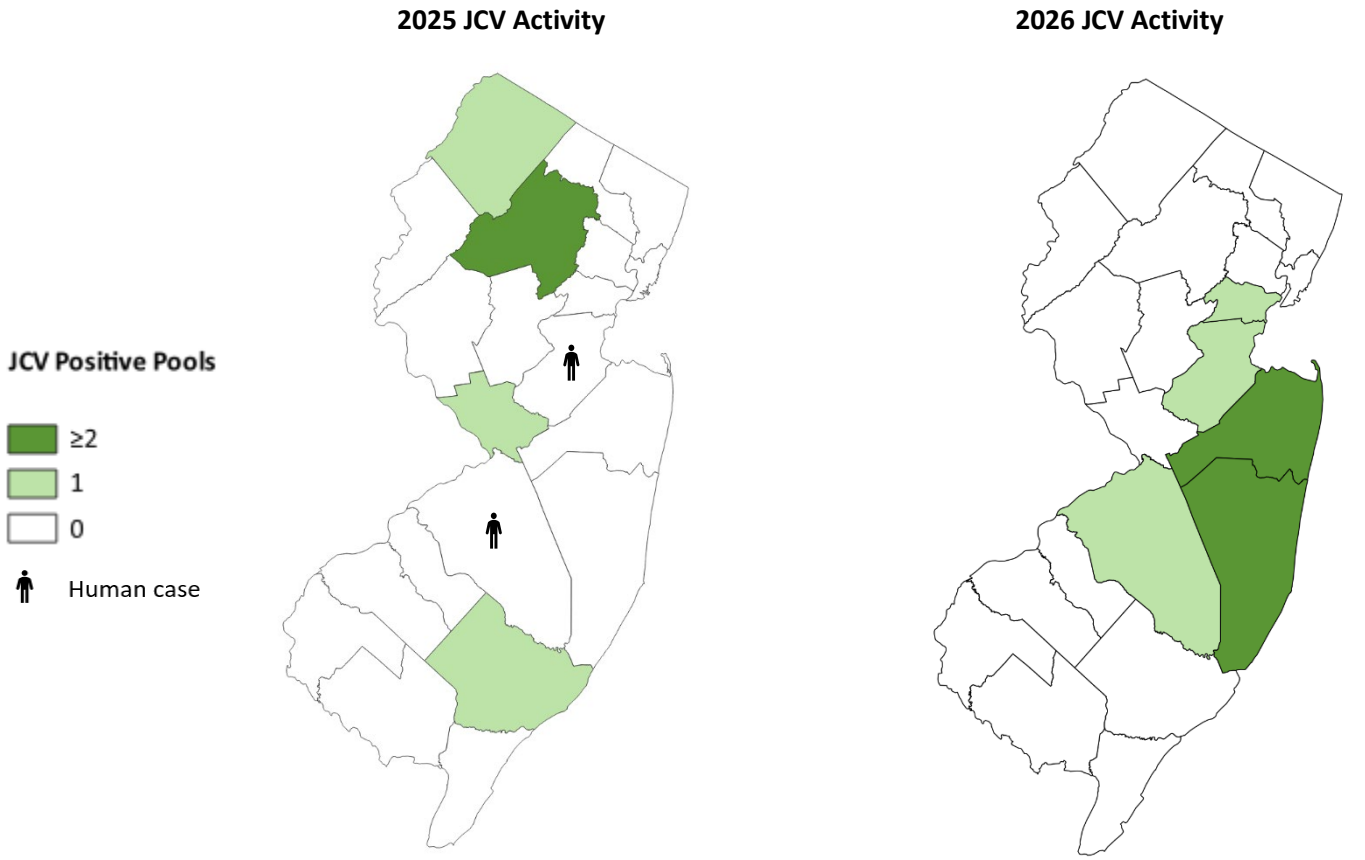
WEEK 43: Oct 19 - 25, 2025; Oct 24 - 31, 2026

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


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


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])

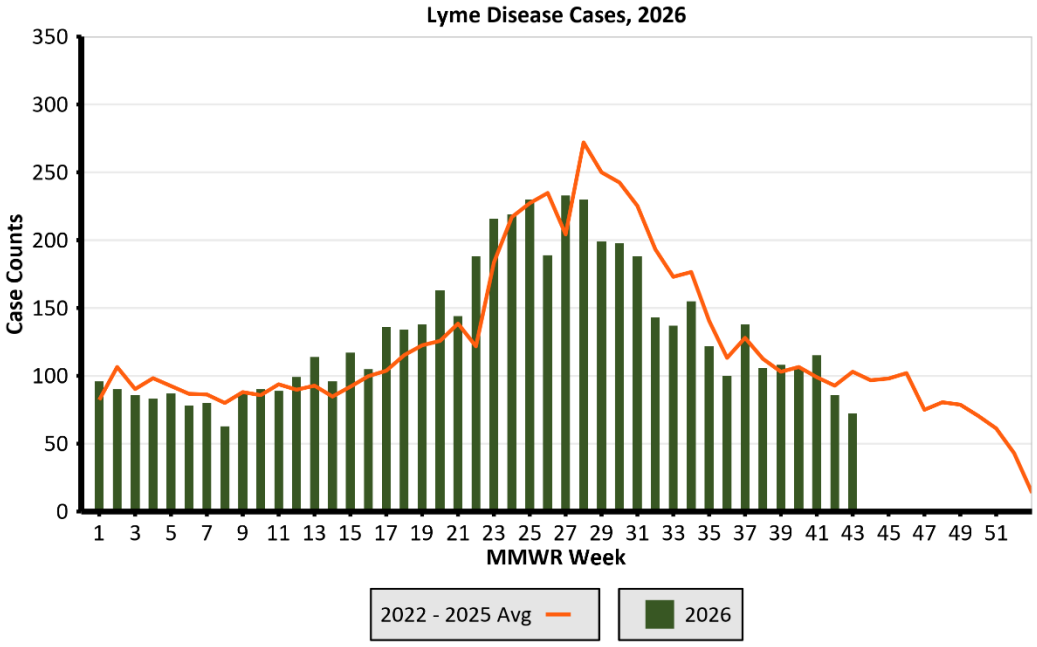
	SLE		LAC		CHIKV		DENV		ZIKV	
County	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos	Pools	Pos
Atlantic	536									
Bergen	503				8		8		8	
Burlington	387		5							
Camden	687		2		18		18		18	
Cape May	2383									
Cumberland	455									
Essex	490									
Gloucester	859		117		97		97		97	
Hudson	344									
Hunterdon	347		7							
Mercer	372				1		1		1	
Middlesex	442		3		23		23		23	
Monmouth	460									
Morris	483				8		8		8	
Ocean	489		8							
Passaic	398		46							
Salem	582		52							
Somerset	328				1		1		1	
Sussex	479		142	1						
Union	235									
Warren	435		40							
Total	**11694**	**0**	**422**	**1**	**156**	**0**	**156**	**0**	**156**	**0**

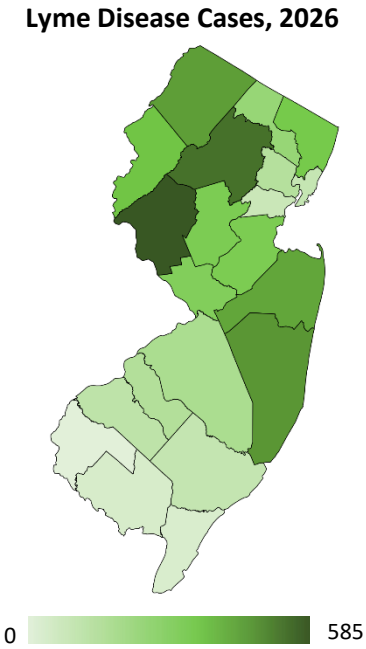
[a] St. Louis virus (SLE), La Crosse encephalitis (LAC), Chikungunya virus (CHIKV), Dengue virus (DENV), Zika Virus (ZIKV)
Numbers in white columns represent number of pools tested to date in 2026
Number in green shaded columns represent positive pools in 2026

Tickborne Disease Activity

Lyme Disease

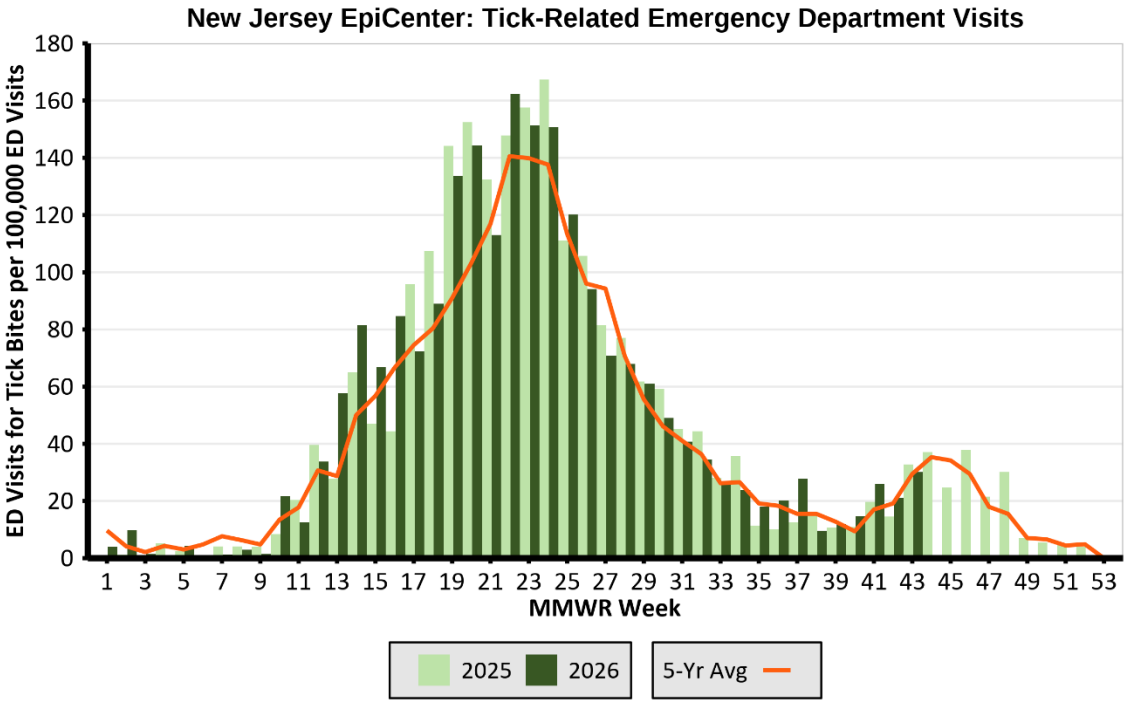
- There have been 5,677 cases of Lyme disease reported in NJ in 2026.
- The number of cases continued to decrease this week and is lower than the four-year average.
- Most Lyme disease cases have been reported in the northwestern part of the state (Hunterdon, Morris, and Sussex counties) as well as in 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 remains consistent with historical trends.



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/