

# Vector-borne Surveillance Report

CDC Week 31: Aug 2 - 8, 2026

## Highlights:

- *There have been no human or animal cases of WNV in 2026. Two WNV presumptive viremic blood donors (PVD) were reported in Bergen and Camden counties.*
- *One-hundred and ten additional mosquito pools tested positive for West Nile Virus (WNV) since last week's report, for a total of 427 positive pools from 20 counties. Mosquito detections this year are higher than historical averages.*
- *The average number of Culex mosquitoes, which are associated with WNV transmission, was highest in Bergen and Hudson counties.*
- *There have been no human, animal, or mosquito detections of Eastern equine encephalitis (EEE) or Jamestown Canyon virus (JCV) in 2026.*
- *The number of Lyme disease cases continued to decrease this week and remains below historical averages.*
- *The number of tick-related emergency department visits continued to decrease and is level 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                | 338  | 524  |
| Dengue                      | 7    | 14   | Anaplasmosis                      | 141  | 312  |
| Malaria                     | 44   | 89   | Babesiosis                        | 136  | 372  |
| West Nile                   | -    | 23   | Ehrlichiosis                      | 63   | 98   |
| Zika                        | 1    | -    | Hard Tick Relapsing Fever         | 1    | 14   |
| Eastern Equine Encephalitis | -    | -    | Lyme Disease                      | 4050 | 6597 |
| Jamestown Canyon            | -    | -    | Powassan                          | -    | 2    |
|                             |      |      | Spotted Fever Group Rickettsioses | 16   | 25   |
|                             |      |      | Tularemia                         | 2    | 1    |

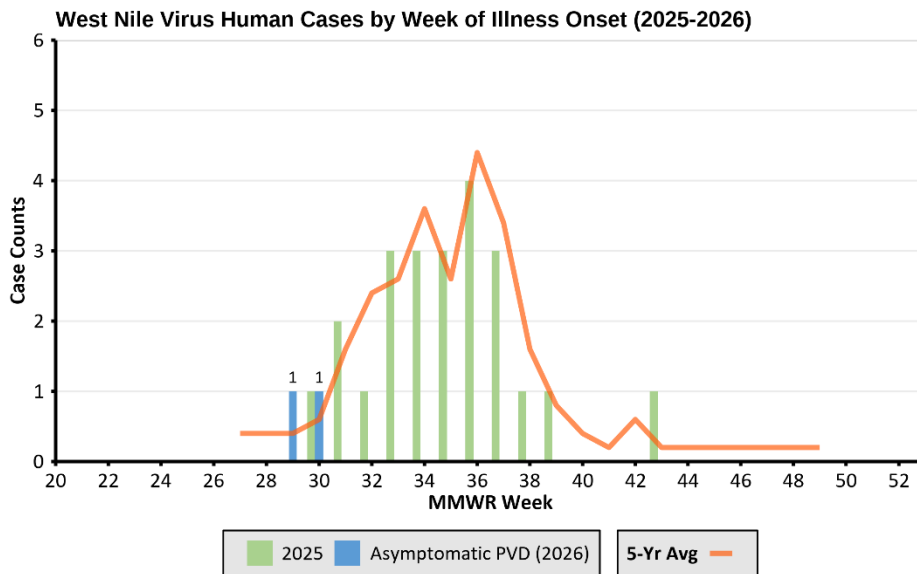
## Mosquito-borne Disease Activity

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 13, 2026 at 12:00 pm.*

## West Nile Virus

- Two presumptive viremic donors (PVDs) were reported in Bergen and Camden counties.
- There have been no human or animal cases of WNV reported in 2026. In 2025, the earliest human case was reported in Week 31.
- State mosquito surveillance and testing started May 18<sup>th</sup>, 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 6,118 pools tested, 427 have tested positive for WNV in 20 counties.
- WNV has been detected in *Culex pipiens/restuans/salinarius* (360), *Cx. pipiens* (29), *Aedes japonicus* (14), *Ae. albopictus* (13), *Ae. vexans* (3), *Cx. salinarius* (2), *Ae. triseriatus* (1), *Anopheles punctipennis* (1), *Coquillettidia perturbans* (1), *Cx. restuans* (1), *Cx. territans* (1), and *Psorophora ciliata* (1) mosquitoes.



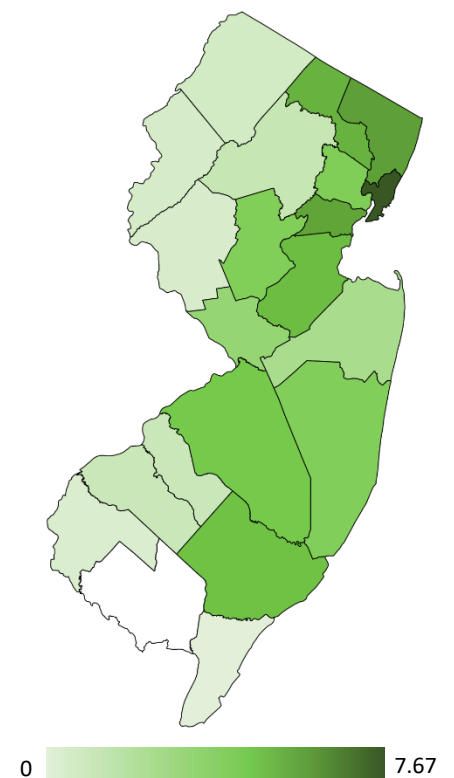
| WNV Human Activity |          |           |          |          |
|--------------------|----------|-----------|----------|----------|
| County             | Cases    |           | PVD*     |          |
|                    | 2026     | 2025      | 2026     | 2025     |
| Atlantic           |          | 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           |          | 2         |          |          |
| Morris             |          | 2         |          |          |
| Ocean              |          |           |          |          |
| Passaic            |          | 1         |          |          |
| Salem              |          |           |          |          |
| Somerset           |          |           |          |          |
| Sussex             |          | 1         |          | 1        |
| Union              |          | 2         |          |          |
| Warren             |          |           |          |          |
| <b>Total</b>       | <b>0</b> | <b>23</b> | <b>2</b> | <b>5</b> |

\*Positive Viremic Donors

| WNV Mosquito Pool Testing |                        |            |                                 |            |                |                   |
|---------------------------|------------------------|------------|---------------------------------|------------|----------------|-------------------|
| County                    | WEEK 31 Positive Pools |            | Cumulative Pos. Total (WEEK 31) |            | # Pools Tested | Cumulative MIR    |
|                           | 2026                   | 2025       | 2026                            | 2025       | 2026           | 2026 <sup>1</sup> |
| Hudson                    | 10                     | 9          | 54                              | 25         | 163            | 7.67              |
| Bergen                    | 20                     | 17         | 89                              | 82         | 285            | 5.88              |
| Union                     | -                      | 1          | 26                              | 32         | 120            | 5.70              |
| Passaic                   | 3                      | 2          | 30                              | 6          | 210            | 5.27              |
| Middlesex                 | 8                      | 10         | 44                              | 46         | 240            | 4.96              |
| Atlantic                  | 4                      | 12         | 33                              | 22         | 286            | 4.81              |
| Burlington                | 9                      | 6          | 15                              | 12         | 135            | 4.50              |
| Essex                     | -                      | 12         | 24                              | 38         | 301            | 4.11              |
| Somerset                  | 5                      | 5          | 21                              | 20         | 179            | 4.06              |
| Ocean                     | 1                      | 3          | 9                               | 4          | 247            | 4.01              |
| Mercer                    | 3                      | 5          | 13                              | 11         | 208            | 3.20              |
| Monmouth                  | -                      | 8          | 28                              | 24         | 240            | 2.42              |
| Morris                    | 5                      | 5          | 9                               | 19         | 303            | 1.22              |
| Camden                    | 1                      | 3          | 4                               | 8          | 356            | 1.06              |
| Gloucester                | -                      | 7          | 11                              | 29         | 453            | 1.06              |
| Sussex                    | -                      | 7          | 5                               | 13         | 240            | 0.69              |
| Warren                    | 1                      | 2          | 5                               | 6          | 259            | 0.56              |
| Hunterdon                 | 2                      | 6          | 4                               | 15         | 202            | 0.46              |
| Salem                     | -                      | 1          | 2                               | 1          | 313            | 0.34              |
| Cape May                  | -                      | 2          | 1                               | 9          | 1157           | 0.04              |
| Cumberland                | -                      | 2          | -                               | 2          | 221            | 0.00              |
| <b>Total</b>              | <b>72</b>              | <b>125</b> | <b>427</b>                      | <b>424</b> | <b>6118</b>    | <b>-</b>          |

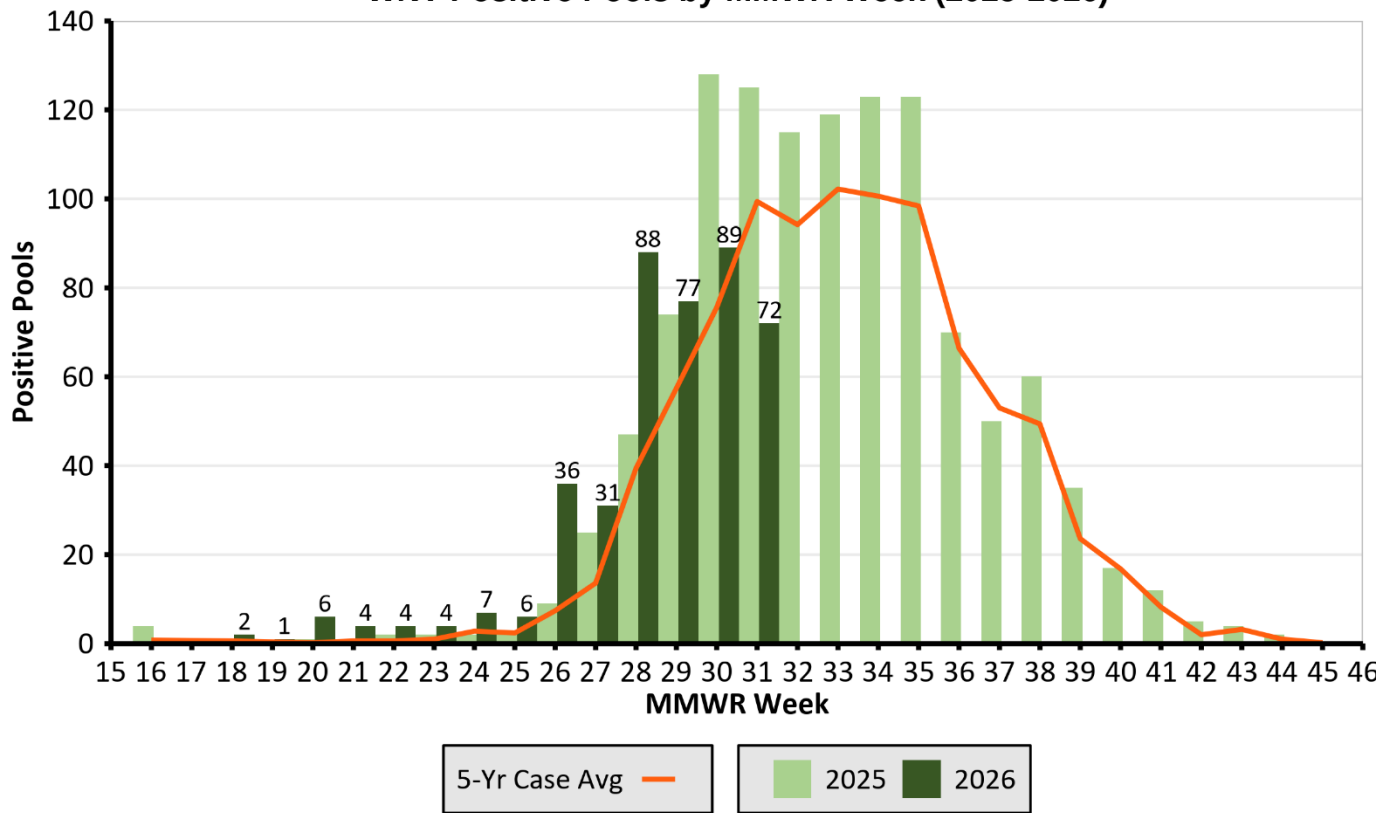
WEEK 31: July 27 - Aug 2, 2025; Aug 2 - 8, 2026

### Cumulative WNV MIR, 2026

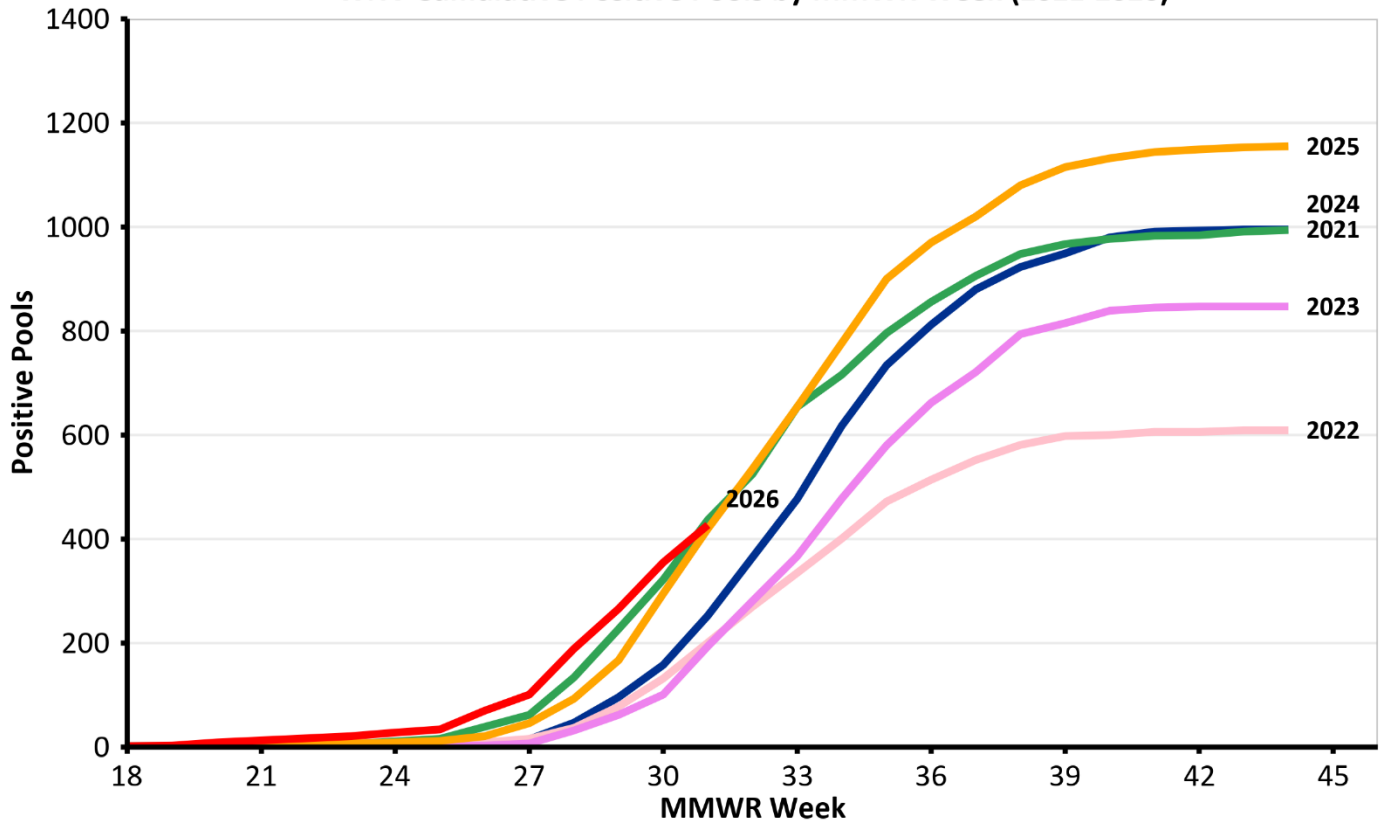


Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

### WNV Positive Pools by MMWR Week (2025-2026)

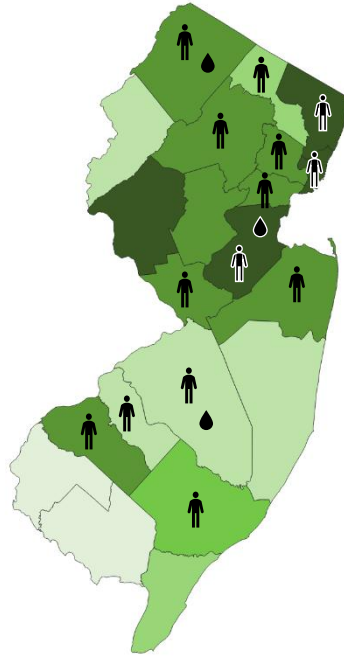
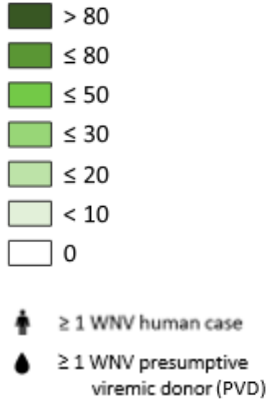


### WNV Cumulative Positive Pools by MMWR Week (2021-2026)

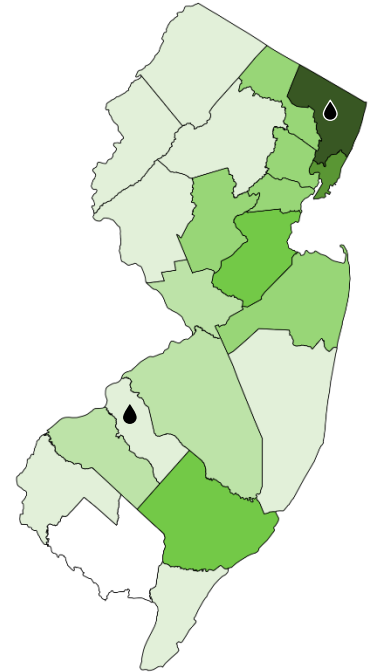


## 2025 WNV Activity

### WNV Positive Pools



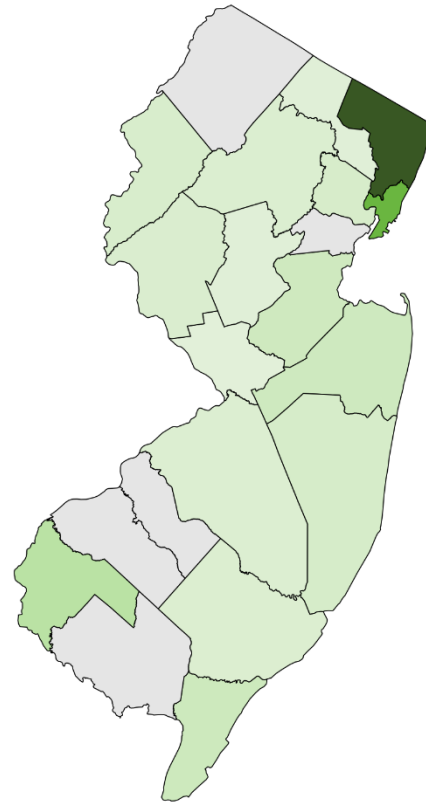
## 2026 WNV Activity



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

| County     | WEEK 30 - 31 Average Abundance* |
|------------|---------------------------------|
| Bergen     | 4.91                            |
| Hudson     | 3.30                            |
| Salem      | 1.05                            |
| Cape May   | 0.56                            |
| Monmouth   | 0.53                            |
| Middlesex  | 0.51                            |
| Ocean      | 0.32                            |
| Essex      | 0.29                            |
| Warren     | 0.26                            |
| Hunterdon  | 0.21                            |
| Morris     | 0.18                            |
| Atlantic   | 0.17                            |
| Burlington | 0.16                            |
| Passaic    | 0.05                            |
| Somerset   | 0.04                            |
| Mercer     | 0.00                            |
| Camden     | No available data               |
| Cumberland | No available data               |
| Gloucester | No available data               |
| Sussex     | No available data               |
| Union      | No available data               |

### Average Mosquito Abundance, *Culex* spp., Week 30 – 31\*



\* 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.

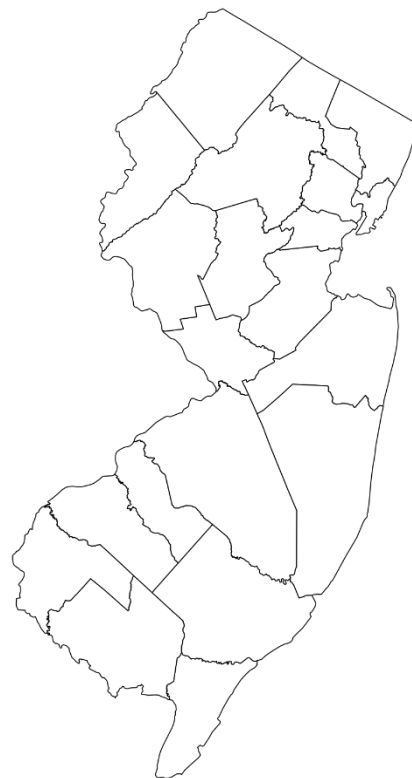
## Eastern Equine Encephalitis

- 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 6,075 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 31<br>Positive Pools |          | Cumulative Pos.<br>Total (WEEK 31) |          | # Pools<br>Tested | Cumulative<br>MIR |
|                           | 2026                      | 2025     | 2026                               | 2025     | 2026              | 2026 <sup>1</sup> |
| Atlantic                  | -                         | -        | -                                  | -        | 286               | 0.00              |
| Bergen                    | -                         | -        | -                                  | -        | 285               | 0.00              |
| Burlington                | -                         | -        | -                                  | -        | 134               | 0.00              |
| Camden                    | -                         | -        | -                                  | -        | 354               | 0.00              |
| Cape May                  | -                         | -        | -                                  | -        | 1157              | 0.00              |
| Cumberland                | -                         | -        | -                                  | -        | 221               | 0.00              |
| Essex                     | -                         | -        | -                                  | -        | 301               | 0.00              |
| Gloucester                | -                         | -        | -                                  | -        | 429               | 0.00              |
| Hudson                    | -                         | -        | -                                  | -        | 163               | 0.00              |
| Hunterdon                 | -                         | -        | -                                  | -        | 199               | 0.00              |
| Mercer                    | -                         | -        | -                                  | -        | 208               | 0.00              |
| Middlesex                 | -                         | -        | -                                  | -        | 240               | 0.00              |
| Monmouth                  | -                         | -        | -                                  | -        | 240               | 0.00              |
| Morris                    | -                         | -        | -                                  | -        | 303               | 0.00              |
| Ocean                     | -                         | -        | -                                  | -        | 245               | 0.00              |
| Passaic                   | -                         | -        | -                                  | -        | 210               | 0.00              |
| Salem                     | -                         | -        | -                                  | -        | 313               | 0.00              |
| Somerset                  | -                         | -        | -                                  | -        | 179               | 0.00              |
| Sussex                    | -                         | -        | -                                  | -        | 240               | 0.00              |
| Union                     | -                         | -        | -                                  | -        | 120               | 0.00              |
| Warren                    | -                         | -        | -                                  | -        | 248               | 0.00              |
| <b>Total</b>              | <b>0</b>                  | <b>0</b> | <b>0</b>                           | <b>0</b> | <b>6075</b>       | <b>-</b>          |

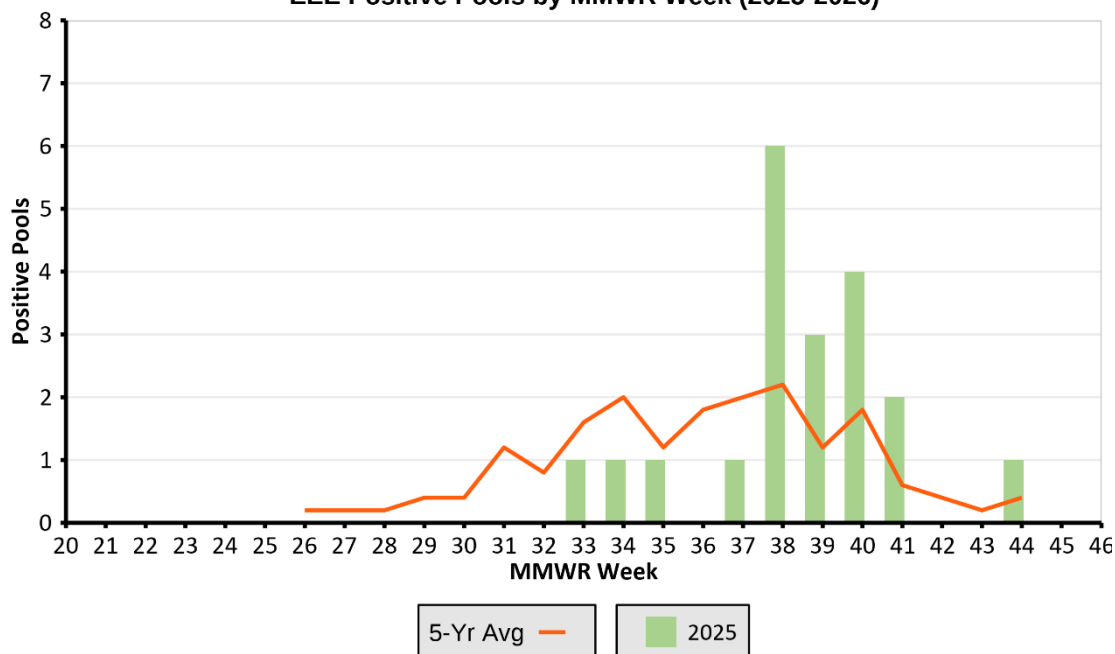
WEEK 31: July 27 – Aug 2, 2025; Aug 2 - 8, 2026

### Cumulative EEE MIR, 2026



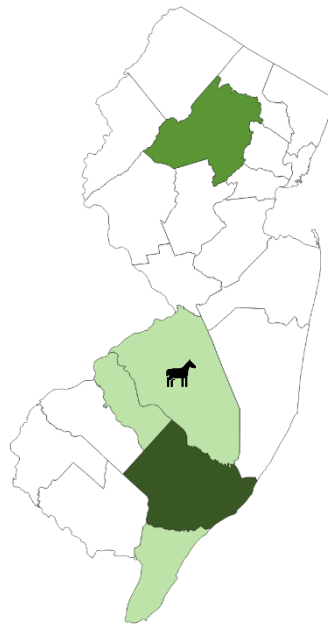
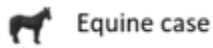
Minimum infection rate (MIR) is defined as the number of positive mosquito pools divided by the total number of mosquitoes tested x 1000

### 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 6,075 mosquito pools from 21 counties tested for JCV, none have tested positive.
- In 2025, the first JCV positive pool was detected in week 29 in Sussex County.

### JCV Mosquito Pool Testing

| County       | WEEK 31<br>Positive Pools |          | Cumulative Pos.<br>Total (WEEK 31) |          | # Pools<br>Tested | Cumulative<br>MIR |
|--------------|---------------------------|----------|------------------------------------|----------|-------------------|-------------------|
|              | 2026                      | 2025     | 2026                               | 2025     | 2026              | 2026 <sup>1</sup> |
| Atlantic     | -                         | -        | -                                  | -        | 286               | 0.00              |
| Bergen       | -                         | -        | -                                  | -        | 285               | 0.00              |
| Burlington   | -                         | -        | -                                  | -        | 134               | 0.00              |
| Camden       | -                         | -        | -                                  | -        | 354               | 0.00              |
| Cape May     | -                         | -        | -                                  | -        | 1157              | 0.00              |
| Cumberland   | -                         | -        | -                                  | -        | 221               | 0.00              |
| Essex        | -                         | -        | -                                  | -        | 301               | 0.00              |
| Gloucester   | -                         | -        | -                                  | -        | 429               | 0.00              |
| Hudson       | -                         | -        | -                                  | -        | 163               | 0.00              |
| Hunterdon    | -                         | -        | -                                  | -        | 199               | 0.00              |
| Mercer       | -                         | -        | -                                  | -        | 208               | 0.00              |
| Middlesex    | -                         | -        | -                                  | -        | 240               | 0.00              |
| Monmouth     | -                         | -        | -                                  | -        | 240               | 0.00              |
| Morris       | -                         | -        | -                                  | 2        | 303               | 0.00              |
| Ocean        | -                         | -        | -                                  | -        | 245               | 0.00              |
| Passaic      | -                         | -        | -                                  | -        | 210               | 0.00              |
| Salem        | -                         | -        | -                                  | -        | 313               | 0.00              |
| Somerset     | -                         | -        | -                                  | -        | 179               | 0.00              |
| Sussex       | -                         | -        | -                                  | 1        | 240               | 0.00              |
| Union        | -                         | -        | -                                  | -        | 120               | 0.00              |
| Warren       | -                         | -        | -                                  | -        | 248               | 0.00              |
| <b>Total</b> | <b>0</b>                  | <b>0</b> | <b>0</b>                           | <b>3</b> | <b>6075</b>       | <b>-</b>          |

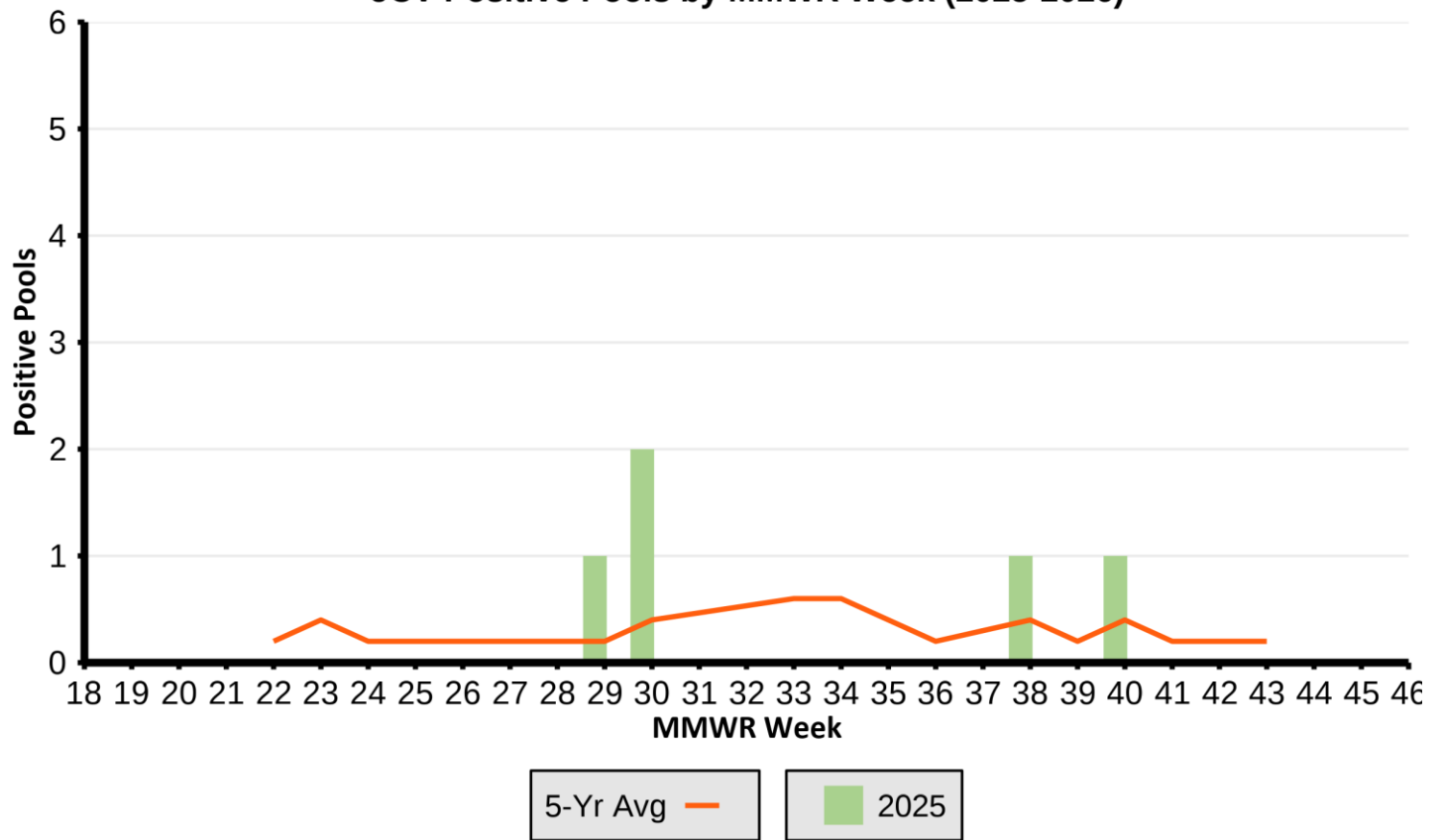
### Cumulative JCV MIR, 2026



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

WEEK 31: July 27 – Aug 2, 2025; Aug 2 - 8, 2026

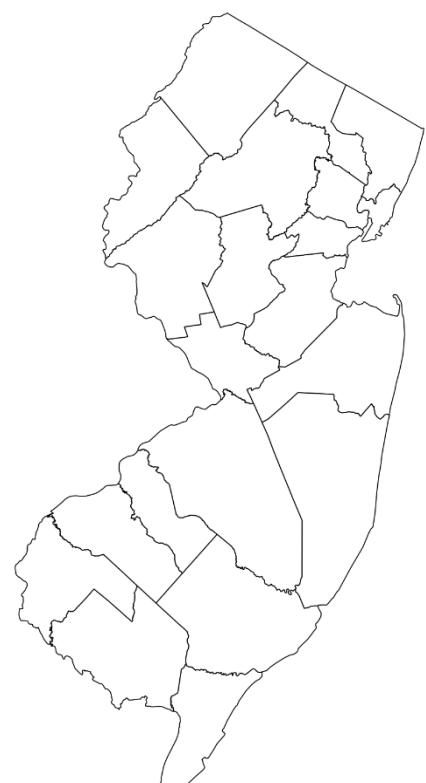
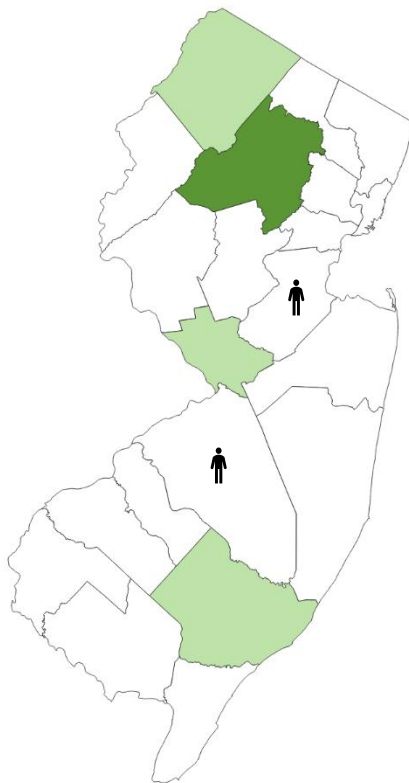
### JCV Positive Pools by MMWR Week (2025-2026)



### 2025 JCV Activity

### 2026 JCV Activity

#### JCV Positive Pools



## 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 <sup>a</sup> ) |             |          |            |          |           |          |           |          |           |          |
|---------------------------------------------------------------------|-------------|----------|------------|----------|-----------|----------|-----------|----------|-----------|----------|
| County                                                              | SLE         |          | LAC        |          | CHIKV     |          | DENV      |          | ZIKV      |          |
|                                                                     | Pools       | Pos      | Pools      | Pos      | Pools     | Pos      | Pools     | Pos      | Pools     | Pos      |
| Atlantic                                                            | 286         |          |            |          |           |          |           |          |           |          |
| Bergen                                                              | 285         |          |            |          | 3         |          | 3         |          | 3         |          |
| Burlington                                                          | 134         |          | 1          |          |           |          |           |          |           |          |
| Camden                                                              | 354         |          | 2          |          | 3         |          | 3         |          | 3         |          |
| Cape May                                                            | 1157        |          |            |          |           |          |           |          |           |          |
| Cumberland                                                          | 221         |          |            |          |           |          |           |          |           |          |
| Essex                                                               | 301         |          |            |          |           |          |           |          |           |          |
| Gloucester                                                          | 429         |          | 54         |          | 48        |          | 48        |          | 48        |          |
| Hudson                                                              | 163         |          |            |          |           |          |           |          |           |          |
| Hunterdon                                                           | 199         |          | 3          |          |           |          |           |          |           |          |
| Mercer                                                              | 208         |          |            |          |           |          |           |          |           |          |
| Middlesex                                                           | 240         |          |            |          | 3         |          | 3         |          | 3         |          |
| Monmouth                                                            | 240         |          |            |          |           |          |           |          |           |          |
| Morris                                                              | 303         |          |            |          | 6         |          | 6         |          | 6         |          |
| Ocean                                                               | 245         |          | 4          |          |           |          |           |          |           |          |
| Passaic                                                             | 210         |          | 24         |          |           |          |           |          |           |          |
| Salem                                                               | 313         |          | 20         |          |           |          |           |          |           |          |
| Somerset                                                            | 179         |          |            |          |           |          |           |          |           |          |
| Sussex                                                              | 240         |          | 22         |          |           |          |           |          |           |          |
| Union                                                               | 120         |          |            |          |           |          |           |          |           |          |
| Warren                                                              | 248         |          | 12         |          |           |          |           |          |           |          |
| <b>Total</b>                                                        | <b>6075</b> | <b>0</b> | <b>142</b> | <b>0</b> | <b>63</b> | <b>0</b> | <b>63</b> | <b>0</b> | <b>63</b> | <b>0</b> |

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

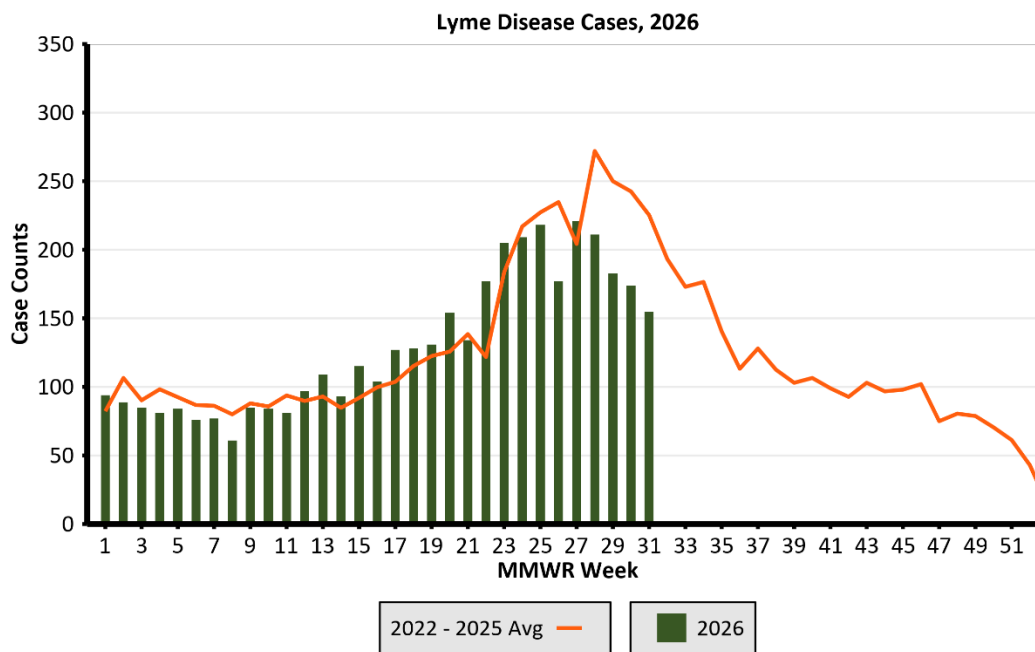
Numbers in white columns represent number of pools tested to date in 2026

Number in green shaded columns represent positive pools in 2026

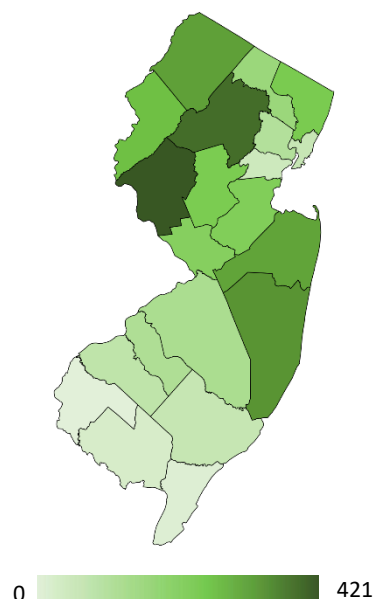
## Tickborne Disease Activity

### Lyme Disease

- There have been 4,050 cases of Lyme disease reported in NJ in 2026.
- The number of cases in week 31 continues 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 County.

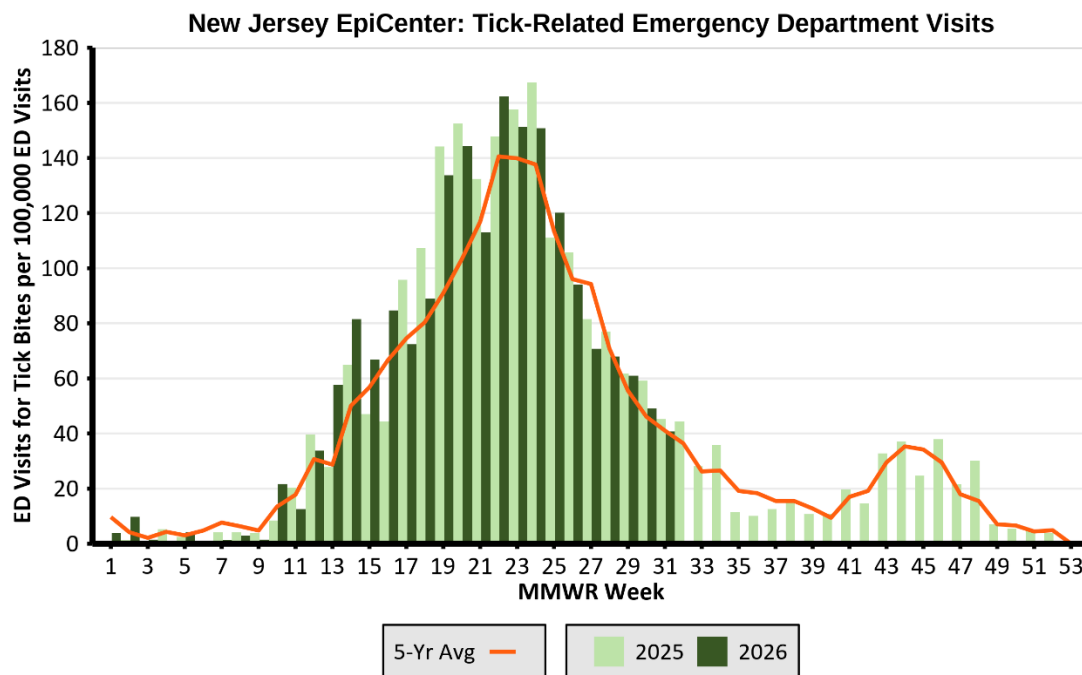


**Lyme Disease Cases, 2026**



### 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](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/>