

# Pioneer Valley MCD Weekly Report

EPI Week 26

Week Ending: June 28, 2025

## Surveillance Summary

| EPI Week 26 Target Species Surveillance Summary |             |           |          |          | Cumulative Totals: EPI Weeks 24-26 |                  |                 |                  |
|-------------------------------------------------|-------------|-----------|----------|----------|------------------------------------|------------------|-----------------|------------------|
| Species                                         | # Collected | Pools     | WNV+     | EEEV+    | Cumulative Specimens               | Cumulative Pools | Cumulative WNV+ | Cumulative EEEV+ |
| <i>Cx. pipiens/restuans</i>                     | 595         | 21        | 0        | 0        | 1458                               | 61               | 0               | 0                |
| <i>Cq. perturbans</i>                           | 353         | 10        | 0        | 0        | 579                                | 24               | 0               | 0                |
| <i>Cs. melanura</i>                             | 1           | 1         | 0        | 0        | 5                                  | 3                | 0               | 0                |
| <i>Oc. canadensis</i>                           | 222         | 4         | 0        | 0        | 444                                | 14               | 0               | 0                |
| <i>Oc. japonicus</i>                            | 85          | 7         | 0        | 0        | 182                                | 12               | 0               | 0                |
| <i>Ps. ferox</i>                                | 20          | 0         | 0        | 0        | 25                                 | 0                | 0               | 0                |
| <i>An. quadrimaculatus</i>                      | 8           | 1         | 0        | 0        | 13                                 | 1                | 0               | 0                |
| <i>Ae. vexans</i>                               | 41          | 1         | 0        | 0        | 77                                 | 6                | 0               | 0                |
| <i>An. punctipennis</i>                         | 32          | 0         | 0        | 0        | 308                                | 0                | 0               | 0                |
| <b>Totals</b>                                   | <b>1357</b> | <b>45</b> | <b>0</b> | <b>0</b> | <b>3091</b>                        | <b>121</b>       | <b>0</b>        | <b>0</b>         |

## Positive Mosquito Samples in the Pioneer Valley Region

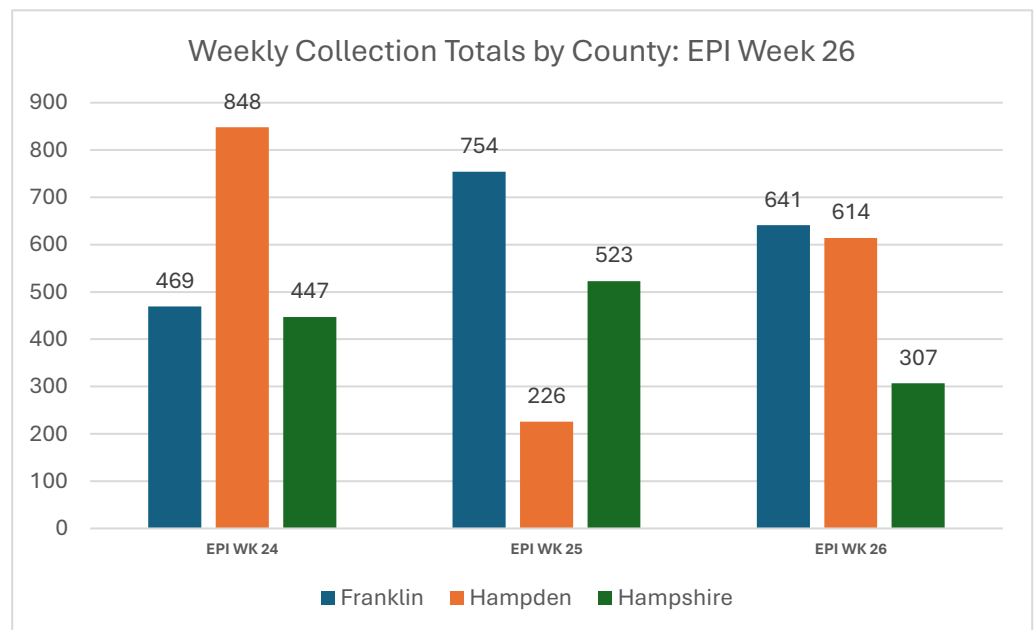
- There were no arbovirus detections during EPI week 26 in The Pioneer Valley. See statewide results [here](#).

## Most Abundant Species in Pioneer Valley

- Among the species of most concern, *Cx. pipiens/restuans* continued to be the most prevalent during EPI week 26, with a total of 595 specimens. *Cx. pipiens/restuans*, the primary vector for West Nile virus (WNV), breeds in artificial containers such as catch basins, neglected swimming pools, tarps, birdbaths, buckets, discarded tires, and poorly maintained garden ponds. Eliminating standing water around the home is a key step in reducing populations of *Cx. pipiens/restuans* and other mosquito vectors.

## EPI WK 24 Summary by County

- Franklin County**
  - EPI WK 26 Pools Tested: 19
  - Positive Samples: 0
  - Most Abundant Species: *Cx. pipiens/restuans* (296)
  - Total Mosquitoes Collected: 641
- Hampden County**
  - EPI WK 26 Pools Tested: 14
  - Positive Samples: 0
  - Most Abundant Species: *Cx. pipiens/restuans* (181)
  - Total Mosquitoes Collected: 614
- Hampshire County**
  - EPI WK 26 Pools Tested: 9
  - Positive Samples:
  - Most Abundant Species: *Cx. pipiens/restuans* (118)
  - Total Mosquitoes Collected: 307



- Total Mosquitoes Collected (All Counties): **1562**
- Total Pools Submitted for Testing (All Counties): **45**

Weather Summary

Weather conditions during EPI Week 26 continued to support mosquito activity, with temperatures and precipitation remaining within favorable ranges.

Weekly Changes in Weather

| Station     | Name           | EPI Week | PRCP Total (in.) | TMAX AVG (°F) | TMIN AVG (°F) |
|-------------|----------------|----------|------------------|---------------|---------------|
| USC00190120 | AMHERST, MA US | 23       | 1.53             | 77.43         | 51.14         |
| USC00190120 | AMHERST, MA US | 24       | 0.69 (-55%)      | 74.5 (-4%)    | 56 (+10%)     |
| USC00190120 | AMHERST, MA US | 25       | 0.55 (-20%)      | 74.8 (<1%)    | 58.5 (+4%)    |
| USC00190120 | AMHERST, MA US | 26       | 0.35 (-36%)      | 87.9 (+17%)   | 66 (+13%)     |

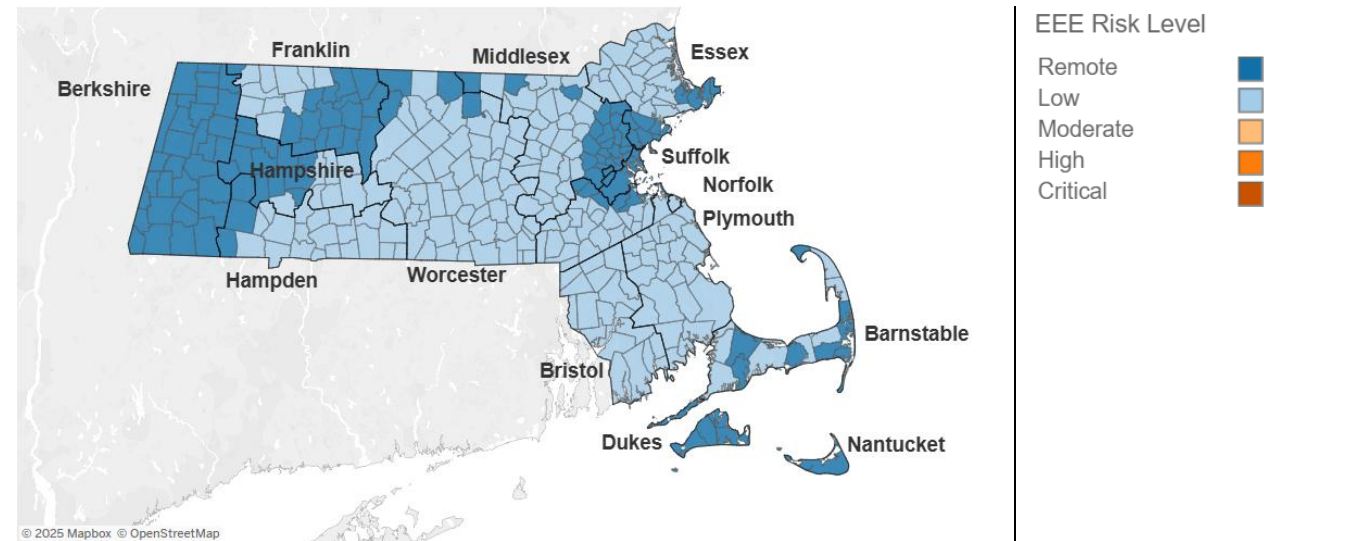
Statewide Cumulative Arbovirus Positives as of 7/3/25

| Virus | Positive Mosquito Samples | Animal Cases | Human Cases |
|-------|---------------------------|--------------|-------------|
| EEE   | 0                         | 0            | 0           |
| WNV   | 4                         | 0            | 0           |

Positive Mosquito Samples as of 7/3/25

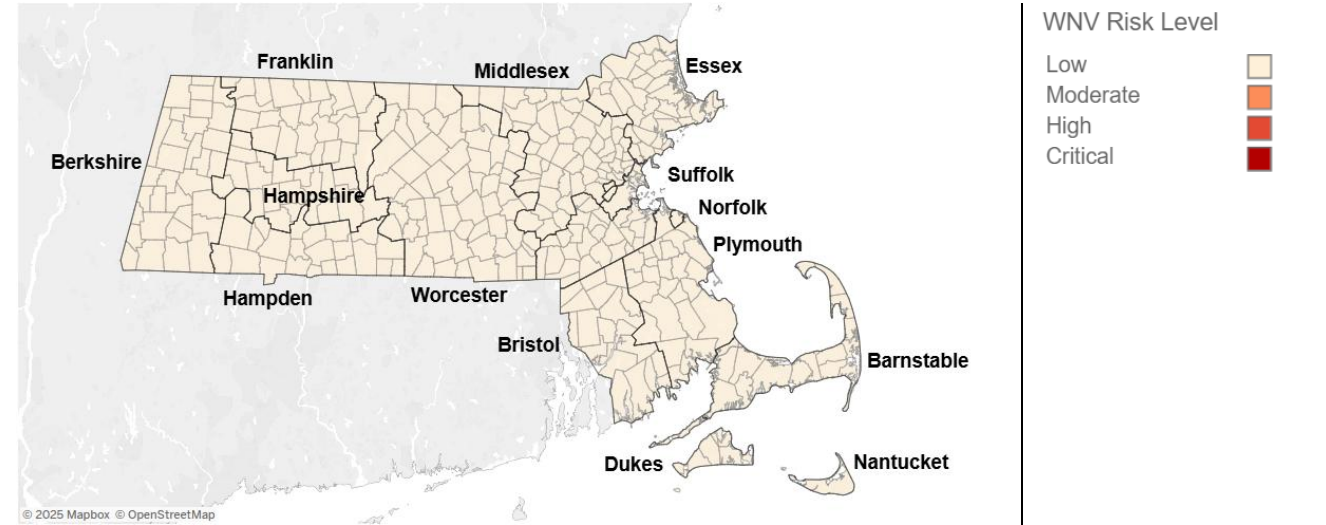
| Date          | County     | City/Town  | Species                   |
|---------------|------------|------------|---------------------------|
| June 13, 2025 | Worcester  | Shrewsbury | Coquilleltidia perturbans |
| June 24, 2025 | Barnstable | Falmouth   | Culex pipiens/restuans    |
| June 24, 2025 | Middlesex  | Watertown  | Culex pipiens/restuans    |
| July 1, 2025  | Suffolk    | Chelsea    | Culex pipiens/resutans    |

EEE Risk Map as of 7/3/25 – No Change



Current EEE Risk Map from: <https://www.mass.gov/info-details/massachusetts-arbovirus-update>

WNV Risk Map as of 7/3/25 – No Change



Current WNV Risk Map From: <https://www.mass.gov/info-details/massachusetts-arbovirus-update>

## Bite Prevention – Mosquitoes and Ticks

Mosquitoes and ticks can transmit serious diseases, but taking protective measures can go a long way in preventing bites from these common vectors.

### Personal Protection Tips

- **Use insect repellent:** Use EPA approved insect repellent with one of the following ingredients: DEET, picaridin, or oil of lemon eucalyptus to keep bugs off.
- **Be mindful of timing and environment:** Mosquitoes are busiest at dawn and dusk, while ticks hide in brushy areas all day. During the colder months, ticks will overwinter in mostly leaf litter and will seek out a blood meal on a warm winter day.
- **Wear proper clothing:** Long sleeves, pants, and shoes help prevent mosquito bites. Although it's not much of a fashion statement, tucking your pants into your socks prevents ticks from migrating up your leg and biting you.
- **Treat your clothes:** Spray gear and clothing with permethrin for extra protection against ticks. Note, permethrin is a pesticide and should be used with caution. Read all product labels before use.
- **Tick check:** Look over your skin, clothes, and pets carefully after spending time outside.
- **Dry your clothes on high heat:** Ticks can survive a wash cycle, but 10 minutes in a hot dryer will kill them.
- **If possible, take a shower within two hours:** It helps wash off unattached ticks before they can latch on. This is also a good opportunity to look over your skin again.

### Around the Home

- **Prevent artificial habitat:** Mosquitoes will seek out water-filled containers to lay their eggs in, so empty buckets, birdbaths, kiddie pools, tarps, etc. Clear gutters of debris regularly and dispose of old tires to prevent mosquito breeding.
- **Fix doors and screens:** Keep mosquitoes out by inspecting and repairing window screens.
- **Make a tick-safe yard:** Maintain short grass, remove leaf litter, and place a barrier of gravel between wooded areas and the edges of your lawn.

### PE Poster Printouts and Helpful Links

- [Mosquito Bite Prevention Poster](#)
- [Arbovirus Transmission Cycles](#)
- [Reducing Mosquito Breeding Sites](#)
- [CDC Dengue Fever Information](#)
- DPH Mosquito PE Materials: <https://www.mass.gov/lists/mosquito-borne-disease-educational-materials>
- DPH Tick PE Materials: <https://www.mass.gov/info-details/tick-borne-educational-materials>