

# Pioneer Valley MCD Weekly Report

EPI Week 28

Week Ending: July 12, 2025

## Surveillance Summary

| EPI Week 28 Target Species Surveillance Summary |             |           |          |          | Cumulative Totals: EPI Weeks 24-28 |                  |                 |                  |
|-------------------------------------------------|-------------|-----------|----------|----------|------------------------------------|------------------|-----------------|------------------|
| Species                                         | # Collected | Pools     | WNV+     | EEEV+    | Cumulative Specimens               | Cumulative Pools | Cumulative WNV+ | Cumulative EEEV+ |
| <i>Cx. pipiens/restuans</i>                     | 1788        | 31        | 1        | 0        | 3367                               | 103              | 1               | 0                |
| <i>Cq. perturbans</i>                           | 1051        | 23        | 0        | 0        | 2300                               | 68               | 0               | 0                |
| <i>Cs. melanura</i>                             | 0           | 0         | 0        | 0        | 5                                  | 3                | 0               | 0                |
| <i>Oc. canadensis</i>                           | 119         | 1         | 0        | 0        | 736                                | 19               | 0               | 0                |
| <i>Oc. japonicus</i>                            | 165         | 3         | 0        | 0        | 405                                | 22               | 0               | 0                |
| <i>Ps. ferox</i>                                | 8           | 0         | 0        | 0        | 44                                 | 0                | 0               | 0                |
| <i>An. quadrimaculatus</i>                      | 8           | 0         | 0        | 0        | 111                                | 4                | 0               | 0                |
| <i>Ae. vexans</i>                               | 6           | 0         | 0        | 0        | 105                                | 7                | 0               | 0                |
| <i>Ae. Albopictus</i>                           | 0           | 0         | 0        | 0        | 21                                 | 1                | 0               | 0                |
| <b>Totals</b>                                   | <b>3145</b> | <b>58</b> | <b>0</b> | <b>0</b> | <b>7094</b>                        | <b>227</b>       | <b>1</b>        | <b>0</b>         |

## Positive Mosquito Samples in the Pioneer Valley Region

- There was one WNV positive pool of *Culex pipiens/restuans* detected in Chicopee during EPI week 28. See statewide results [here](#) and risk maps [here](#).

## Most Abundant Species in Pioneer Valley

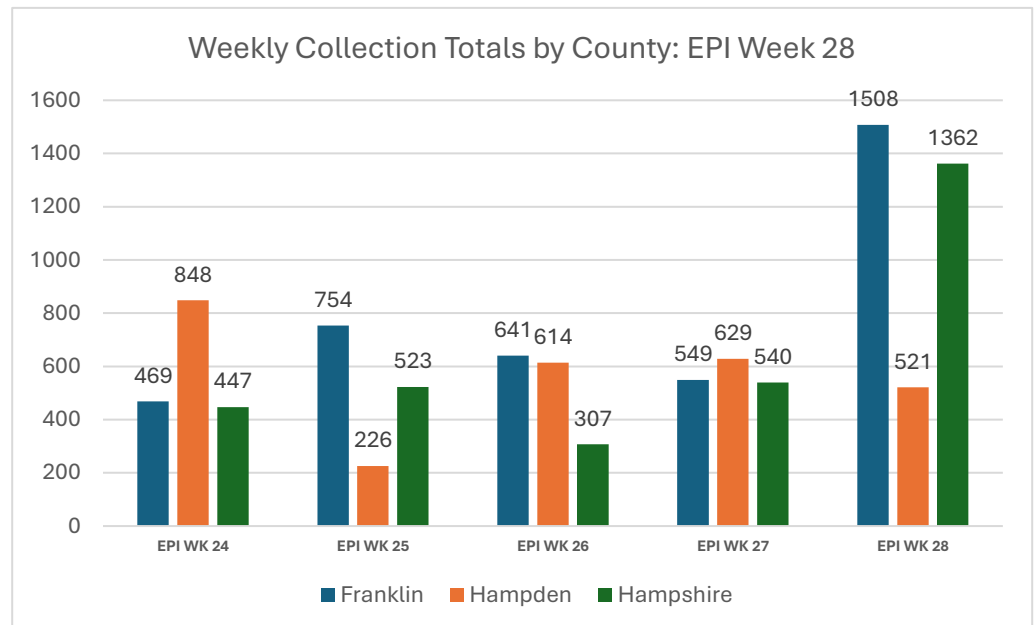
- Among the species of most concern, *Cq. perturbans* continued to be the most prevalent during EPI week 28, with a total of 1788 specimens. *Cq. perturbans* are a bridge vector for EEE and WNV and can be found in permanent swamps with emergent vegetation (e.g. cattails and hummocks/tussocks). *Cq. perturbans* are aggressive human biters that can fly up to 5 miles for a blood meal and are active during the night.



*Cq. perturbans* adult female. Image Credit: Northeastern Mosquito Control Association

## EPI WK 28 Summary by County

- Franklin County**
  - EPI WK 28 Pools Tested: 31
  - Positive Samples: 0
  - Most Abundant Species: *Cq. perturbans* (882)
  - Total Mosquitoes Collected: 1508
- Hampden County**
  - EPI WK 28 Pools Tested: 13
  - Positive Samples: 1
  - Most Abundant Species: *Cx. pipiens/restuans* (349)
  - Total Mosquitoes Collected: 521
- Hampshire County**
  - EPI WK 28 Pools Tested: 17
  - Positive Samples: 0
  - Most Abundant Species: *Cq. perturbans* (825)
  - Total Mosquitoes Collected: 1362



- Total Mosquitoes Collected (All Counties): **3391** (Total Includes Non-Targeted Species)
- Total Pools Submitted for Testing (All Counties): **58**

Weather Summary

Weather conditions during EPI Week 28 continued to support mosquito activity, with temperatures, humidity, 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%)     |
| USC00190120 | AMHERST, MA US | 27       | 0.16 (-54%)      | 84.1 (-4%)    | 59.5 (-10%)   |
| USC00190120 | AMHERST, MA US | 28       | 0.54 (+238%)     | 87.6 (+4%)    | 66.1 (+11%)   |

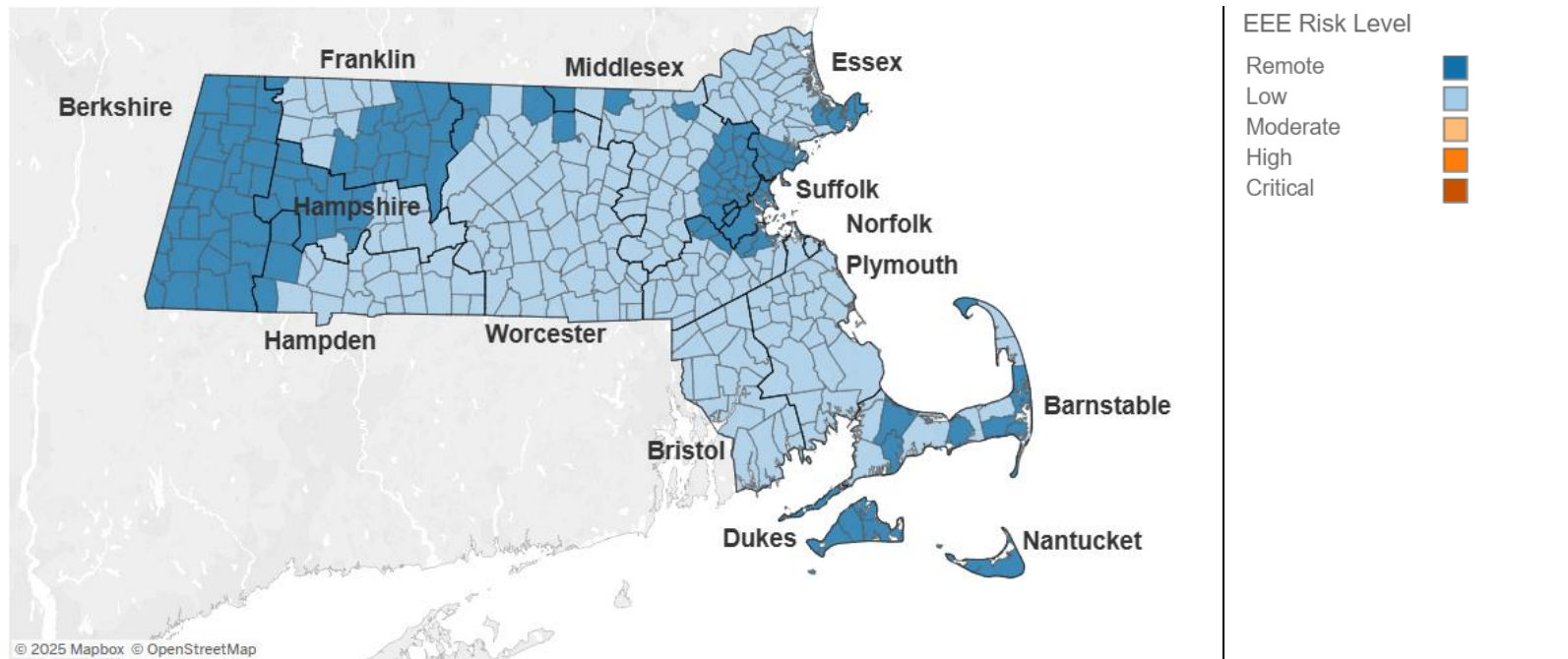
Statewide Cumulative Arbovirus Positives as of 7/17/25

| Virus | Positive Mosquito Samples | Animal Cases | Human Cases |
|-------|---------------------------|--------------|-------------|
| EEE   | 0                         | 0            | 0           |
| WNV   | 24                        | 1            | 0           |

Positive Mosquito Samples as of 7/17/25

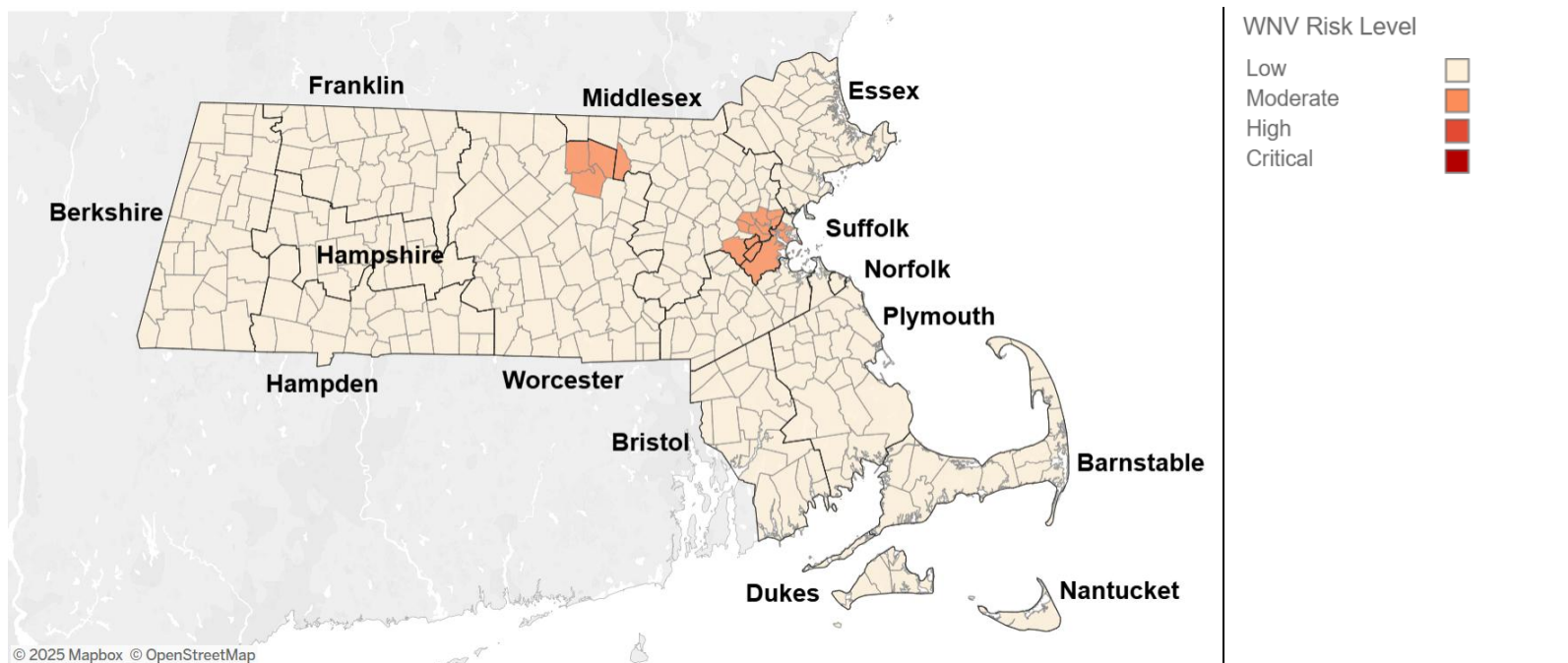
| Date          | County     | City/Town  | Species                          | Positive Samples |
|---------------|------------|------------|----------------------------------|------------------|
| June 13, 2025 | Worcester  | Shrewsbury | <i>Coquillettidia perturbans</i> | 1                |
| June 24, 2025 | Barnstable | Falmouth   | <i>Culex pipiens/restuans</i>    | 1                |
| June 24, 2025 | Middlesex  | Watertown  | <i>Culex pipiens/restuans</i>    | 1                |
| July 1, 2025  | Suffolk    | Chelsea    | <i>Culex pipiens/resutans</i>    | 1                |
| July 2, 2025  | Bristol    | Swansea    | <i>Culex pipiens/resutans</i>    | 1                |
| July 8, 2025  | Barnstable | Barnstable | <i>Culex pipiens/resutans</i>    | 1                |
| July 8, 2025  | Middlesex  | Cambridge  | <i>Culex pipiens/resutans</i>    | 1                |
| July 8, 2025  | Middlesex  | Malden     | <i>Culex pipiens/resutans</i>    | 1                |
| July 8, 2025  | Suffolk    | Boston     | <i>Culex pipiens/resutans</i>    | 2                |
| July 10, 2025 | Hampden    | Chicopee   | <i>Culex pipiens/resutans</i>    | 1                |
| July 15, 2025 | Middlesex  | Arlington  | <i>Culex pipiens/resutans</i>    | 1                |
| July 15, 2025 | Middlesex  | Belmont    | <i>Culex pipiens/resutans</i>    | 1                |
| July 15, 2025 | Middlesex  | Medford    | <i>Culex pipiens/resutans</i>    | 3                |
| July 15, 2025 | Middlesex  | Watertown  | <i>Culex pipiens/resutans</i>    | 2                |
| July 15, 2025 | Suffolk    | Boston     | <i>Culex pipiens/resutans</i>    | 5                |
| July 15, 2025 | Suffolk    | Boston     | <i>Ochlerotatus japonicus</i>    | 1                |

### EEE Risk Map as of 7/17/25 – No Change



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

### WNV Risk Map as of 7/17/25 – Risk Level Raised to Moderate in Parts of Middlesex, Worcester, and Suffolk Counties



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>