Pioneer Valley MCD Weekly Report

EPI Week 27 **Week Ending: July 5, 2025**

Surveillance Summary

EPI Week 27 Target Species Surveillance Summary					Cumulative Totals: EPI Weeks 24-27			
Species	# Collected	Pools	WNV+	EEEV+	Cumulative Specimens	Cumulative Pools	Cumulative WNV+	Cumulative EEEV+
Cx. *pipiens/restuans*	121	11	0	0	1579	72	0	0
Cq. *perturbans*	670	21	0	0	1249	45	0	0
Cs. *melanura*	0	0	0	0	5	3	0	0
Oc. *canadensis*	173	4	0	0	617	18	0	0
Oc. *japonicus*	58	4	0	0	240	16	0	0
Ps. *ferox*	11	0	0	0	36	0	0	0
An. *quadrimaculatus*	90	3	0	0	103	4	0	0
Ae. *vexans*	18	1	0	0	95	7	0	0
Ae. Albopictus	21	1	0	0	21	1	0	0
Totals	1162	45	0	0	3945	166	0	0

Positive Mosquito Samples in the Pioneer Valley Region

- There were no arbovirus detections during EPI week 27 in The Pioneer Valley. See statewide results **here** and risk maps **here**.

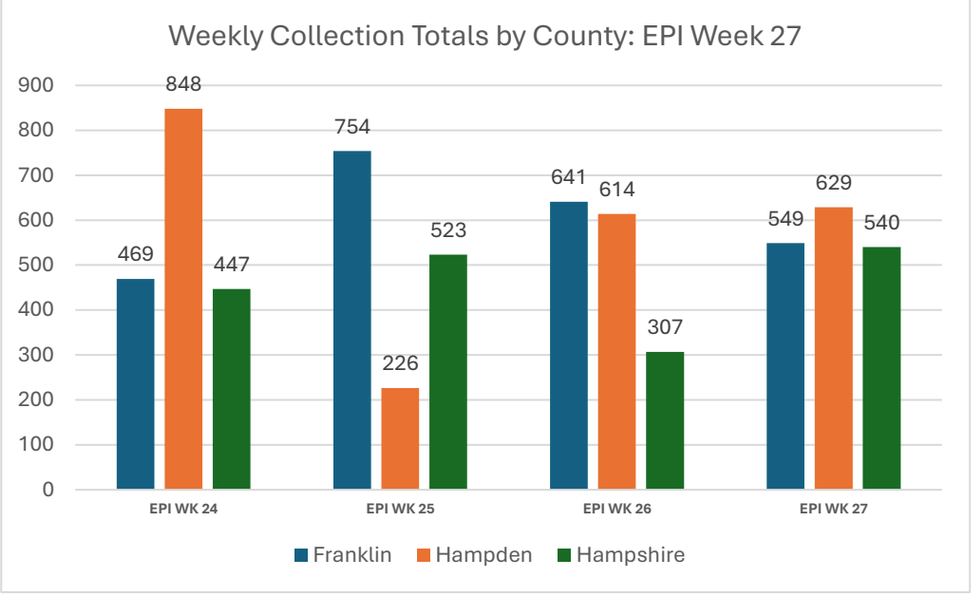
Most Abundant Species in Pioneer Valley

- Among the species of most concern, Cq. *perturbans* continued to be the most prevalent during EPI week 27, with a total of 670 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 27 Summary by County

- **Franklin County**
  - EPI WK 27 Pools Tested: 16
  - Positive Samples: 0
  - Most Abundant Species: Cq. *perturbans* (274)
  - Total Mosquitoes Collected: 549
- **Hampden County**
  - EPI WK 27 Pools Tested: 16
  - Positive Samples: 0
  - Most Abundant Species: Cq. *perturbans* (179)
  - Total Mosquitoes Collected: 629
- **Hampshire County**
  - EPI WK 27 Pools Tested: 13
  - Positive Samples:
  - Most Abundant Species: Cx. *pipiens/restuans* (217)
  - Total Mosquitoes Collected: 540



- Total Mosquitoes Collected (All Counties): **1718**
- Total Pools Submitted for Testing (All Counties): **45**

Weather Summary

Weather conditions during EPI Week 27 continued to support mosquito activity, with temperatures and precipitation remaining slightly 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%)**

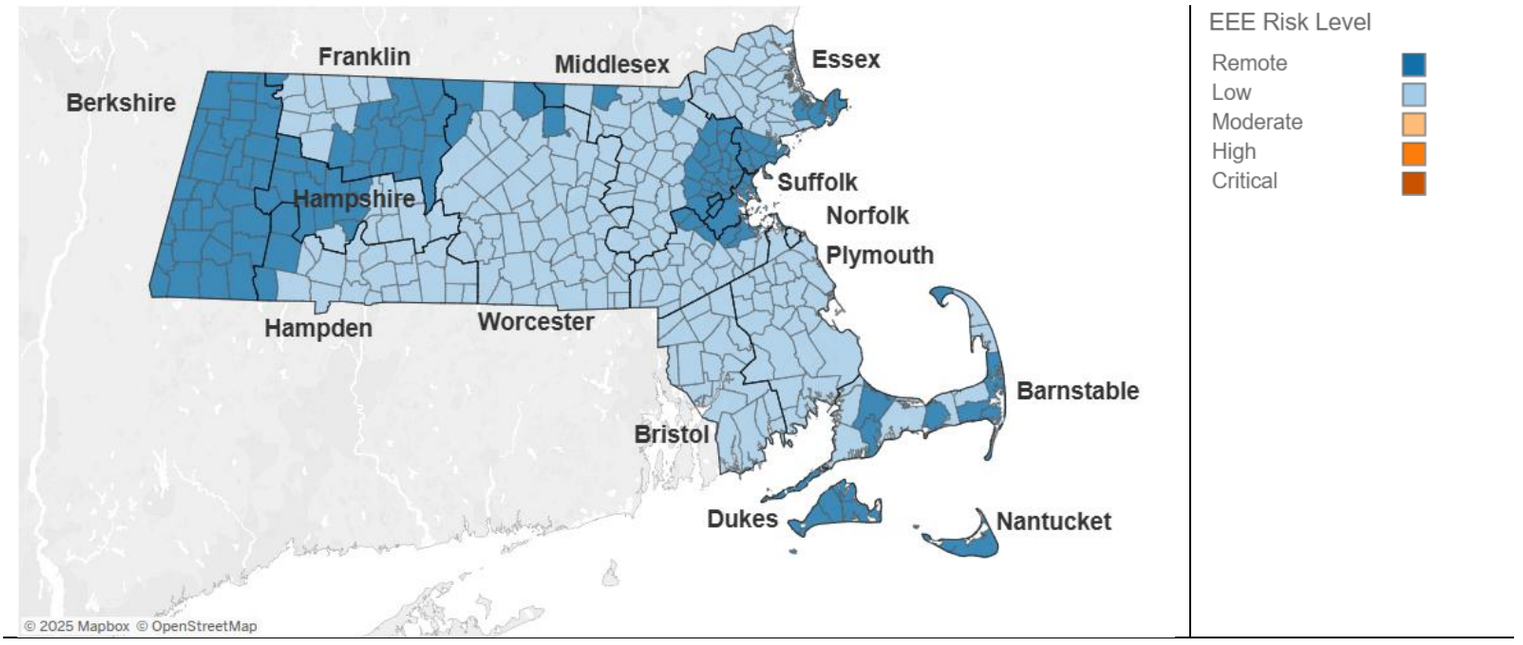
Statewide Cumulative Arbovirus Positives as of 7/3/25

Virus	Positive Mosquito Samples	Animal Cases	Human Cases
EEE	**0**	**0**	**0**
WNV	**10**	**0**	**0**

Positive Mosquito Samples as of 7/11/25

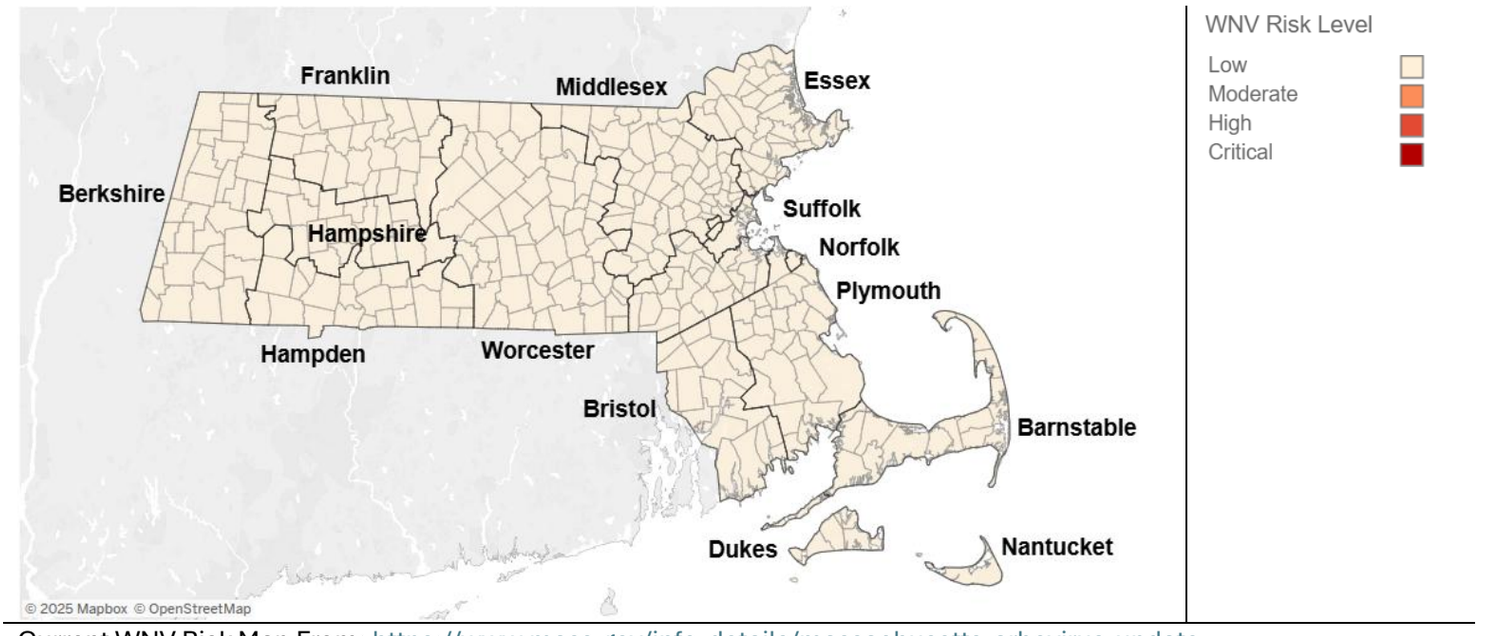
Date	County	City/Town	Species
June 13, 2025	**Worcester**	**Shrewsbury**	**Coquillettidia *perturbans***
June 24, 2025	**Barnstable**	**Falmouth**	**Culex *pipiens/restuans***
June 24, 2025	**Middlesex**	**Watertown**	**Culex *pipiens/restuans***
July 1, 2025	**Suffolk**	**Chelsea**	**Culex *pipiens/resutans***
July 8, 2025	**Barnstable**	**Barnstable**	**Culex *pipiens/resutans***
July 8, 2025	**Middlesex**	**Cambridge**	**Culex *pipiens/resutans***
July 8, 2025	**Middlesex**	**Malden**	**Culex *pipiens/resutans***
July 8, 2025	**Suffolk County**	**Boston**	**Culex *pipiens/resutans***
July 8, 2025	**Suffolk County**	**Boston**	**Culex *pipiens/resutans***

EEE Risk Map as of 7/11/25 – No Change



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

WNV Risk Map as of 7/11/25 – 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, kiddy 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