

Pioneer Valley MCD Weekly Report

EPI Week 29

Week Ending: July 19, 2025

Surveillance Summary

Due to the high temperatures, mosquito surveillance operations were conducted at a reduced level.

EPI Week 29 Target Species Surveillance Summary					Cumulative Totals: EPI Weeks 24-29			
Species	# Collected	Pools	WNV+	EEEV+	Cumulative Specimens	Cumulative Pools	Cumulative WNV+	Cumulative EEEV+
<i>Cx. pipiens/restuans</i>	181	11	1	0	3548	114	2	0
<i>Cq. perturbans</i>	96	7	0	0	2396	75	0	0
<i>Cs. melanura</i>	2	2	0	0	7	5	0	0
<i>Oc. canadensis</i>	62	4	0	0	798	23	0	0
<i>Oc. japonicus</i>	108	9	0	0	513	31	0	0
<i>Ps. ferox</i>	2	0	0	0	46	0	0	0
<i>An. quadrimaculatus</i>	25	1	0	0	136	5	0	0
<i>Ae. vexans</i>	4	0	0	0	109	7	0	0
<i>Ae. albopictus</i>	0	0	0	0	21	1	0	0
<i>Cx. salinarius</i>	42	1	0	0	55	1	0	0
<i>An. punctipennis</i>	25	2	0	0	438	2	0	0
Totals	547	37	0	0	8067	264	2	0

Positive Mosquito Samples in the Pioneer Valley Region

- There was one WNV positive pool of *Culex pipiens/restuans* detected in Leyden during EPI week 29. See statewide results [here](#) and risk maps [here](#).

Most Abundant Species in Pioneer Valley

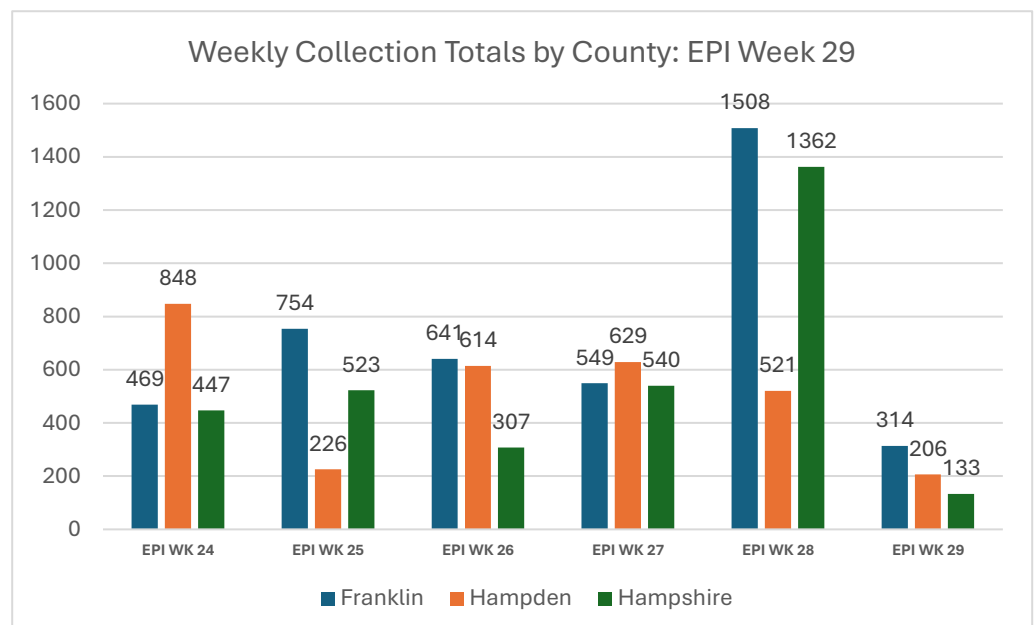
- Among the species of most concern, *Cx. pipiens/restuans* were the most prevalent during EPI week 29, with a total of 181 specimens. *Cx. pipiens/restuans*, the primary vector for West Nile virus (WNV), breeds in artificial containers such as catch basins, neglected swimming pools, tarps, birdbaths, 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.



Cx. pipiens adult female. Image Credit: Lawrence E. Reeves, University of Florida

EPI WK 29 Summary by County

- Franklin County**
 - EPI WK 29 Pools Tested: 16
 - Positive Samples: 1
 - Most Abundant Species: *Cq. perturbans* (66)
 - Total Mosquitoes Collected: 314
- Hampden County**
 - EPI WK 29 Pools Tested: 14
 - Positive Samples: 0
 - Most Abundant Species: *Cx. pipiens/restuans* (59)
 - Total Mosquitoes Collected: 206
- Hampshire County**
 - EPI WK 29 Pools Tested: 7
 - Positive Samples: 0
 - Most Abundant Species: *Cx. pipiens/restuans* (55)
 - Total Mosquitoes Collected: 133
- Total Mosquitoes Collected (All Counties): **653** (Total Includes Non-Targeted Species)
- Total Pools Submitted for Testing (All Counties): **37**



Weather Summary

Weather conditions during EPI Week 29 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%)
USC00190120	AMHERST, MA US	29	1.75 (+224%)	86.1 (-2%)	66.4 (+0.5%)

Statewide Cumulative Arbovirus Positives as of 7/25/25

Virus	Positive Mosquito Samples	Animal Cases	Human Cases
EEE	0	0	0
WNV	31	1	0

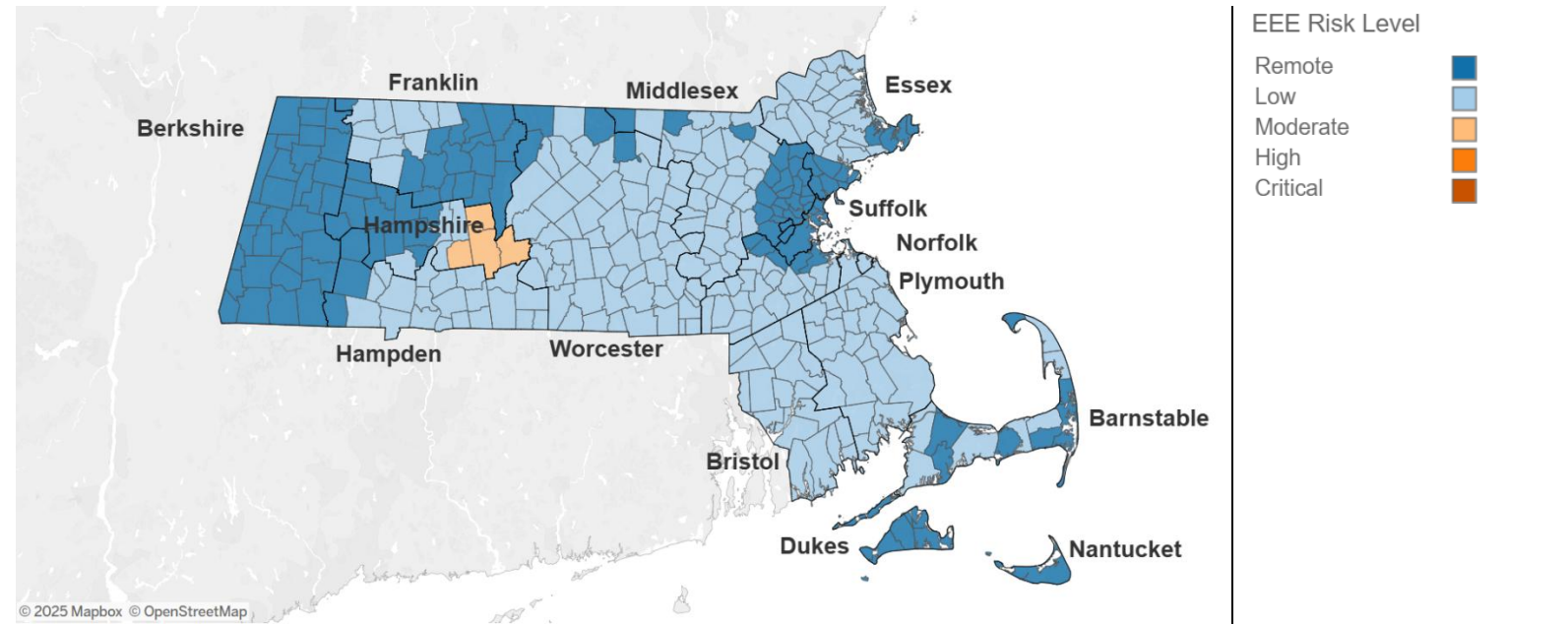
EEE Positive Mosquito Samples as of 7/25/25

Date	County	City/Town	Species	Positive Samples
June 13, 2025	Hampshire	Belchertown	<i>Coquillettidia perturbans</i>	1

WNV Positive Mosquito Samples as of 7/25/25

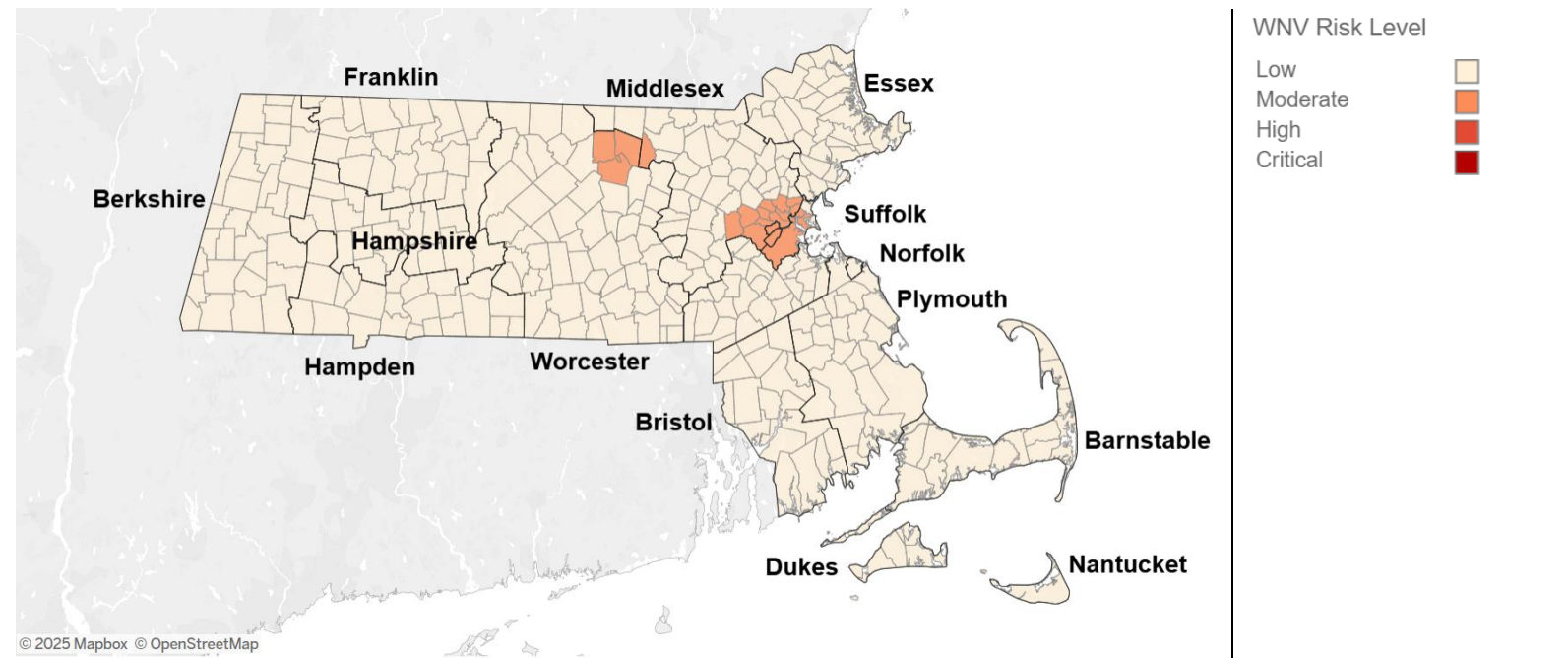
Date	County	City/Town	Species	Positive Samples
June 13, 2025	Worcester	Shrewsbury	<i>Coquillettidia perturbans</i>	1
June 24, 2025	Barnstable	Falmouth	<i>Culex pipiens/restuans</i>	1
June 24, 2025	Middlesex	Watertown	<i>Culex pipiens/restuans</i>	1
July 1, 2025	Suffolk	Chelsea	<i>Culex pipiens/resutans</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
July 15, 2025	Franklin	Leyden	<i>Culex pipiens/restuans</i>	1
July 17, 2025	Middlesex	Weston	<i>Culex pipiens/restuans</i>	1
July 18, 2025	Middlesex	Marlborough	<i>Culex pipiens/restuans</i>	1
July 18, 2025	Worcester	Worcester	<i>Culex pipiens/restuans</i>	1
July 22, 2025	Middlesex	Carlisle	<i>Culex pipiens/restuans</i>	1
July 22, 2025	Suffolk	Boston	<i>Culex pipiens/restuans</i>	1
July 23, 2005	Middlesex	Stoneham	<i>Culex pipiens/restuans</i>	1

EEE Risk Map as of 7/25/25 – Risk level raised to moderate in Belchertown, Granby, Pelham, and Ware



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

WNV Risk Map as of 7/17/25 – Risk level is moderate in parts of Middlesex, Worcester, and Suffolk (expanded) 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>