

Central Mass. Mosquito Control Project Weekly Report- 8/20/23-8/26/23 EPI Week #34

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	329	496	41	354	873	4344
Total Specimens	4723	23690	109	6274	23682	75499
No. Pools WNV +	0	0	0	0	5†	5†
No. Pools EEE +	0	0	0	0	0	0

Cumulative Surveillance Summary

[†]Pool of WNV+ *Culex* collected in Worcester on 7/7/23 [†]Pool of WNV+ *Culex* collected in Worcester on 7/20/23 [†]Pool of WNV+ *Culex* collected in Chelmsford on 8/10/23 [†]Pool of WNV+ *Culex* collected in Northbridge on 8/10/23 [†]Pool of WNV+ *Culex* collected in Milford on 8/16/23

Weather Summary (Northborough, MA): The weather for this particular week averaged 69.07°F with a recorded high temperature of 86.30°F and a recorded low temperature of only 51.90°F. For this week there was also a total of 1.48 inches of rain observed. Compared to the previous week, it was approximately 1.03°F cooler on average, and rained about 1.29 inches less. There has been 6.28 inches of rain accumulated in August, after 9.98 inches for the month of July.

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	+228.3%	+2564%	Wilmington, Natick
Coquillettidia perturbans	+29.83%	-43.18%	Lowell, Westford
Culiseta melanura	+800.0%	-86.06%	Ayer, Acton
Ochlerotatus canadensis	+24.24%	+390.1%	Acton, Webster, Natick
Culex Species	-60.53%	+620.1%	Westford, Wilmington
All Species	+11.04%	+66.59%	Wilmington, Acton

CMMCP Mosquito Summary-

The predominant mosquito for the week was *Psorophora ferox* followed by *Coquillettidia perturbans.*

General narrative:

The temperatures for EPI week 34 averaged approximately 1.03°F cooler than the previous week, with 1.48 inches of precipitation observed. Overall surveillance trap collections increased this period compared to the last, with all target mosquitoes increasing except for *Culex*. Only *Coquillettidia perturbans* and *Culiseta melanura* remain at lower levels compared to this point last season. *Psorophora ferox* was the most abundant mosquito species, followed by *Coquillettidia perturbans*. *Aedes albopictus* surveillance using ovitraps has continued, with 5,177 eggs previously collected in EPI

week 33. Supplemental control measures continue to be taken in response to the collection of *Aedes albopictus* eggs and adult specimens in Ayer. One mosquito pool submitted to MDPH in EPI week 33 tested positive for West Nile virus. It was a collection of *Culex* collected from Milford on 8/16/23.

Epi week#	# eggs Collected	Epi week#	# eggs Collected			
23	0	32	5,246			
24	0	33	5,177			
25	649	34				
26	3,306	35				
27	4,928	36				
28	3,563	37				
29	8,560	38				
30	5,019	39				
31	7,049	40				
	TOTAL	43,497				
9 ATM detections to date						

Ae. albopictus egg collections:

Operational notes:

Service requests are 7.5% below the 20-year average and a 1% increase over 2022 numbers to date. Request numbers decreased slightly from the week prior. Work crews began performing catch basins treatments for *Culex* control on May 22. 3,877 basins were treated in Epi week 34, with 88,846 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.

West Nile Virus was confirmed in Milford, and after consultation with local health officials these affected areas were ULV sprayed. This brings our total to date to 5 WNV confirmation, all in *Culex*.

Ae. albopictus continues to be found in Ayer but the numbers may have peaked. We will continue surveillance and control efforts as long as possible.





Precipitation in CMMCP Towns for EPI Week 34 (8/20-8/26/2023)



