CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #26 June 25 – July 1, 2023

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Central Mass. Mosquito Control Project Weekly Report- 6/25/23-7/1/23 EPI Week #26

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	107	100	27	161	194	1382
Total Specimens	1092	1416	75	3062	3334	13123
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.79°F with a recorded high temperature of 90.80°F and a recorded low temperature of only 60.00°F. For this week there was also a total of 2.21 inches of rain observed. Compared to the previous week, it was approximately 7.53°F warmer on average, and rained about 1.92 inches more. There has been 3.50 inches of rain accumulated in June, after 2.04 inches for the month of May.

CMMCP Mosquito Summary-

Target Species	∆ From	∆ From	Predominant Trap Site(s)
	Last Week	Last Year	
Aedes vexans	+258.4%	+1927%	Lunenburg, Lancaster
Coquillettidia perturbans	+135.0%	-85.18%	Acton, Tewksbury, Ayer
Culiseta melanura	-87.50%	-91.85%	Millbury
Ochlerotatus canadensis	+30.84%	+151.7%	Tewksbury, Acton
Culex Species	+176.9%	+121.3%	Westford, Chelmsford, Tewksbury
All Species	+68 16%	-33 73%	Tewksbury Lunenburg Acton

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

General narrative:

Target Species

The temperatures for EPI week 26 averaged approximately 7.53°F warmer than the previous week, with 2.21 inches of precipitation observed. Overall surveillance trap collections increased this period compared to the last, with only Culiseta melanura showing a decrease among the target species. Coquillettidia perturbans emergence still remains much lower than in the previous year. Culex became the most abundant mosquito for the week, followed now by Coquillettidia perturbans. Increasing temperatures and the continued emergence of Coquillettidia perturbans should contribute to higher collections moving forward. Aedes albopictus surveillance using ovitraps has continued, with 3,955 eggs collected and submitted so far. All mosquito pools submitted in EPI week 25 to MDPH for arbovirus testing were negative.

Ae. albopictus egg collections:

Epi week#	# eggs Collected	Epi week#	# eggs Collected			
23	0	32				
24	0	33				
25	649	34				
26	3,306	35				
27		36				
28		37				
29		38				
30		39				
31		40				
	TOTAL	3,955				
No ATM detections to date						

Operational notes:

Service requests are 38.8% below the 20-year average and a 45.8% decrease over 2022 numbers to date. Work crews began performing catch basins treatments for *Culex* control on May 22. 7,298 basins were treated in Epi week 26, with 45,373 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.









