CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #27 July 2-8, 2023

Frank Cornine, Staff Biologist
Curtis Best, Staff Entomologist
Timothy McGlinchy, Director of Operations
Timothy Deschamps, Executive Director

Central Mass. Mosquito Control Project Weekly Report- 7/2/23-7/8/23 EPI Week #27

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	117	121	29	171	259	1515
Total Specimens	1197	2025	78	3521	5713	16826
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 75.40°F with a recorded high temperature of 98.90°F and a recorded low temperature of only 64.10°F. For this week there was also a total of 2.62 inches of rain observed. Compared to the previous week, it was approximately 1.61°F warmer on average, and rained about 0.41 inches more. There has been 2.62 inches of rain accumulated in July, after 3.50 inches for the month of June.

CMMCP Mosquito Summary-

larget Species	ΔFrom	ΔFrom	Predominant Trap Site(s)
-	Last Week	Last Year	
Aedes vexans	+7.450%	+1927%	Dracut, Westborough, Wilmington
Coquillettidia perturbans	+33.70%	-85.28%	Dracut, Wilmington, Tewksbury
Culiseta melanura	+200.0%	-91.75%	Millbury, Lowell
Ochlerotatus canadensis	-87.35%	160.6%	Shrewsbury, Auburn, Westborough
Culex Species	+299.7%	+201.5%	Worcester, Chelmsford, Natick
All Species	+54.04%	-30.94%	Worcester, Dracut, Chelmsford

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

General narrative:

The temperatures for EPI week 27 averaged approximately 1.61°F warmer than the previous week, with 2.62 inches of precipitation observed. Overall surveillance trap collections increased this period compared to the last, with only *Ochlerotatus canadensis* showing a decrease among the target species. *Coquillettidia perturbans* emergence still remains much lower than in the previous year. *Culex* was again the most abundant mosquito for the week, followed still 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 8,883 eggs collected and submitted so far. All mosquito pools submitted in EPI week 26 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	4,928	36			
28		37			
29		38			
30		39			
31		40			
	TOTAL	8,883			
No ATM detections to date					

Operational notes:

Service requests are 33.5% below the 20-year average and a 39.9% decrease over 2022 numbers to date. We began accepting service requests on May 29 and 4,926 requests have been closed from 6,101 total (23.8% open). Work crews began performing catch basins treatments for *Culex* control on May 22. 5,141 basins were treated in Epi week 27, with 50,514 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.















