CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #25 June 19-25, 2022

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Central Mass. Mosquito Control Project Weekly Report- 6/19/22-6/25/22 EPI Week #25

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	12	152	71	67	147	765
Total Specimens	30	5488	311	695	1198	11282
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 66.07°F with a recorded high temperature of 93.40°F and a recorded low temperature of only 47.40°F. For this week there was also a total of 0.64 inches of rain observed. Compared to the previous week, it was approximately 2.40°F cooler on average, and rained about 0.40 inches more. There has been 2.31 inches of rain accumulated in June, after 1.74 inches for the month of May.

CMMCP Mosquito Summary-

rarget Species	Δ From	Δ From	Predominant Trap Site(s)		
	Last Week	Last Year			
Aedes vexans	-81.25%	-90.20%	Millville, Webster		
Coquillettidia perturbans	+22.69%	-36.59%	Marlborough, Hopkinton, Lunenburg		
Culiseta melanura	-24.37%	+517.4%	Millville, Natick, Blackstone		
Ochlerotatus canadensis	-6.70%	-27.41%	Ashland, Natick, Fitchburg		
Culex Species	-6.50%	+655.7%	Sherborn, Lowell		
All Species	-1.41%	-27.45%	Marlborough, Hopkinton, Lunenburg		

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

General narrative:

Torget Checies

The temperatures for EPI week 25 averaged approximately 2.40°F cooler than the previous week, with 0.64 inches of precipitation observed. Surveillance traps indicate that the adult emergence of *Coquillettidia perturbans* has continued. *Coquillettidia perturbans* was again the most abundant mosquito species for the week, followed still by *Culex*. Increasing temperatures and additional emergence of *Coquillettidia perturbans* should contribute to higher collections moving forward. *Aedes albopictus* surveillance using ovitraps has continued, with 2,596 eggs collected so far. All mosquito pools submitted in EPI week 24 to MDPH for arbovirus testing were negative.

Ae. albopictus egg collections:

Collected	Epi week#	# eggs Collected
0	31	
1,016	32	
1,580	33	
	34	
	35	
	36	
	37	
	38	
TOTAL	2,596	
No ATM data	nations to data	
	0 1,016 1,580 TOTAL	0 31 1,016 32 1,580 33 34 35 36 37

Operational notes:

Service requests are slightly below the 19-year average but a 19.4% decrease over 2021 numbers to date. We began accepting service requests on May 31 and 4,465 requests have been closed from 6,807 total (52% open). Temps started out cool at night but not below treatments thresholds, and may have suppressed resident's exposure initially, thus lower service calls to date. Temps are on the increase however as are *Cq. perturbans* populations so service calls are expected to increase. Work crews began performing catch basins treatments for *Culex* control on May 16. 7,074 basins were treated in Epi week 25, with 35,853 catch basins treated to date intended to suppress *Culex* populations.

Enhanced larval control over 1,500 acres of *Cq. perturbans* habitat was done May 24 & 25 in 12-member communities designated as "Critical" risk from EEE in 2019. Data is being collected and analyzed from emergence traps in these habitats. We are also comparing and contrasting the new BG-Counter traps against our standard CDC light traps, and will run adulticide efficacy trials in house and in conjunction with Tufts School of Veterinary Medicine this summer.











