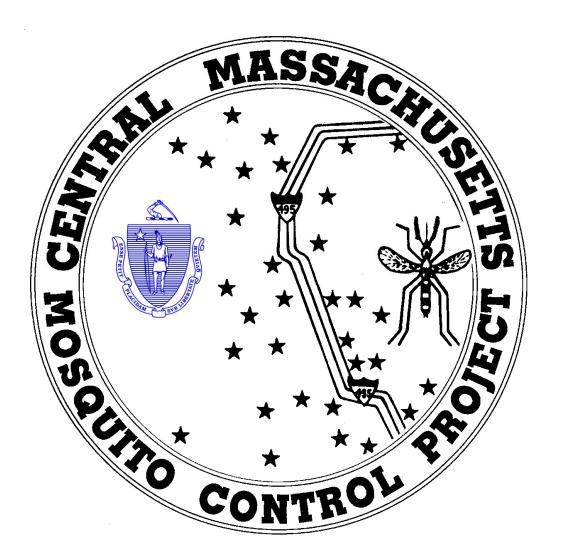
## **CMMCP WEEKLY SURVEILLANCE REPORT**



EPI week #24 June 13 – 19, 2021

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## Central Mass. Mosquito Control Project Weekly Report- 6/13/21-6/19/21 EPI Week #24

**Cumulative Surveillance Summary** 

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	25	53	8	37	18	244
Total Specimens	99	1672	31	530	44	3300
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 81.16°F with a recorded high temperature of 89.20°F and a recorded low temperature of only 47.50°F. For this week there was also a total of 1.12 inches of rain observed. Compared to the previous week, it was approximately 7.50°F warmer on average, and rained about 0.74 inches more. There has been 1.52 inches of rain accumulated in June, after 3.04 inches for the month of May.

## **CMMCP Mosquito Summary-**

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
Aedes vexans	-54.41%	+62.30%	Lancaster, Devens
Coquillettidia perturbans	+70.55%	+468.7%	Lancaster, Ayer, Billerica
Culiseta melanura	-17.65%	-82.29%	Lancaster
Ochlerotatus canadensis	-57.14%	-10.32%	Wilmington, Ayer
Culex Species	+9.520%	-71.79%	Wilmington, Dracut, Devens
All Species	-7.800%	+42.98%	Lancaster

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

## General narrative:

The temperatures for EPI week 24 averaged approximately 7.50°F warmer than the previous week, with 1.12 inches of precipitation observed. The emergence of adult *Coquillettidia perturbans* has continued to be observed. *Coquillettidia perturbans* was most abundant mosquito species for the week, followed by *Ochlerotatus canadensis*. Increasing temperatures and additional emergence should contribute to higher collections moving forward. Compared to the 2020 season, overall mosquito surveillance numbers are up this year, primarily due to increases in *Coquillettidia perturbans* and *Aedes vexans*. Every submitted mosquito pool from EPI week 23 tested negative for mosquito-borne disease. Gravid traps have yet to be deployed. *Aedes albopictus* surveillance using ovitraps has started, with 43 eggs submitted to the Massachusetts Department of Public Health.

Service requests are 20.7% greater than the 18-year average but a 27.6% decrease over 2020 numbers to date. Work crews are performing catch basins treatments in all member communities for *Culex* control. 4,494 catch basins were treated in Epi week 24, bringing the total to 37,037 basins to date. Water sampling and bioassay results are still pending from the analysis laboratories for our enhanced control applications of Spinosad in *Cs. melanura* crypt habitats. Data is being collected and analyzed from emergence traps in *Cq. perturbans* habitat.



