

Central Mass. Mosquito Control Project Weekly Report- 7/2/17-7/8/17 EPI Week #27

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	26	105	20	134	239	1120
Total Specimens	86	2891	47	2702	2978	11698
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Cumulative Surveillance Summary

Weather Summary (Northborough, MA): The weather for this particular week averaged 71.30°F with a recorded high temperature of 87.10°F and a recorded low temperature of only 54.80°F. For this week there was also a total of 0.54 inches of rain observed. Compared to the previous week, it was approximately 2.87°F warmer on average, and rained about 0.20 inches more. There has been 0.54 inches of rain accumulated in July, after 0.54 inches for the month of June.

CMMCP Mosquito Summary*-

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	+250.0%	+407.1%	Leominster, Gardner
Coquillettidia perturbans	+141.2%	-88.55%	Billerica, Millville
Culiseta melanura	+400.0%	-94.93%	Hudson, Hopedale
Ochlerotatus canadensis	-19.82%	-38.37%	Leominster, Hopedale
Culex Species	-56.83%	+15.97%	Marlborough, Hopedale
All Species	+12.54%	-71.67%	Billerica

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

EPI Week 27 narrative: The temperatures for EPI week 27 averaged approximately 2.87 degrees warmer than the previous week, with 0.54 inches of precipitation observed. Overall collection numbers increased by 12.54% from EPI week 26, with all target species increasing from the prior collection with the exception of *Ochlerotatus canadensis* and *Culex*. Compared to the 2016, all target species have been collected in lower numbers to this point in the season aside from *Aedes vexans* and *Culex*. *Coquillettidia perturbans* is now the most abundant mosquito in the CMMCP service area, with *Culex* the second most abundant. *Cq. perturbans* will likely remain the most abundant mosquito during the month of July. Early season mosquito species continue to decline as the season moves forward.

We have received 213% more service requests than the 14 year average (12,077 in 2017 v. 5,672 14 yr. avg.), and 4.8% more than this time in 2016 (12,077 in 2017 v. 11,513 in

2016). Service requests dropped 58% from Epi week 27 v week 26. 703 service requests were received and 1,376 requests were performed in Epi week 27 with favorable weather conditions and despite a shortened week due to the holiday.







