

Central Mass. Mosquito Control Project Weekly Report- 7/9/17-7/15/17 EPI Week #28

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	29	134	21	145	317	1319
Total Specimens	97	4882	59	2857	4143	15181
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 69.69°F with a recorded high temperature of 87.10°F and a recorded low temperature of only 56.70°F. For this week there was also a total of 0.53 inches of rain observed. Compared to the previous week, it was approximately 1.61°F cooler on average, and rained about 0.01 inches fewer. There has been 1.07 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	+57.14%	+485.7%	Billerica, Hopedale, Marlborough
Coquillettidia perturbans	+53.98%	-83.46%	Tewksbury, Sturbridge
Culiseta melanura	+140.0%	-93.03%	Marlborough
Ochlerotatus canadensis	-14.84%	-42.37%	Billerica, Tewksbury
Culex Species	+268.7%	+16.23%	Billerica, Marlborough
All Species	+63.01%	-67.54%	Tewksbury, Billerica, Marlborough

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

Epi week 28 narrative:

The temperatures for EPI week 28 averaged approximately 1.61 degrees cooler than the previous week, with 0.53 inches of precipitation observed. Overall collection numbers increased by 63.01% from EPI week 27, with all target species increasing from the prior collection with the exception of *Ochlerotatus canadensis*. 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* remains 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 201% more service requests than the 14 year average (12,662 in 2017 v. 6,334 14 yr. avg.), and 4.4% more than this time in 2016 (12,662 in 2017 v. 12,127 in 2016). Service requests dropped 20% from Epi week 28 v week 27. 585 service requests were received and 1,818 requests were performed in Epi week 28 with favorable weather conditions all week.







