

Central Mass. Mosquito Control Project Weekly Report- 8/20/17-8/26/17 EPI Week #34

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	65	355	66	196	844	2965
Total Specimens	320	17368	195	3420	16265	45038
No. Pools WNV +	0	0	0	0	9†	9†
No. Pools EEE +	0	0	0	0	0	0

Cumulative Surveillance Summary

[†]Pool of WNV+ *Culex* species collected in Milford on 7/27/17 [†]Pool of WNV+ *Culex* species collected in Ashland on 7/27/17 [†]Pool of WNV+ *Culex* species collected in Chelmsford on 8/1/17 [†]Pool of WNV+ *Culex* species collected in Millbury on 8/4/17 [†]Pool of WNV+ *Culex* species collected in Webster on 8/8/17 [†]Pool of WNV+ *Culex* species collected in Sturbridge on 8/8/17 [†]Pool of WNV+ *Culex* species collected in Millbury on 8/11/17 [†]Pool of WNV+ Culex species collected in Billerica on 8/15/17 [†]Pool of WNV+ *Culex* species collected in Milford on 8/17/17

Weather Summary (Northborough, MA): The weather for this particular week averaged 69.09°F with a recorded high temperature of 90.10°F and a recorded low temperature of only 47.10°F. For this week there was also a total of 0.32 inches of rain observed. Compared to the previous week, it was approximately 2.12°F cooler on average, and rained about 0.27 inches more. There has been 1.12 inches of rain accumulated in August, after 2.04 inches for the month of July.

CMMCP Mosquito Summary ^{*-}							
Target Species	∆ From	Δ From	Predominant Trap Site(s)				
	Last Week	Last Year					
Aedes vexans	-86.00%	-7.88%	Hudson, Millville				
Coquillettidia perturbans	-44.96%	-65.01%	Sturbridge, Holliston, Hopedale				
Culiseta melanura	+43.33%	-69.68%	Holliston, Millville				
Ochlerotatus canadensis	+16.18%	-34.53%	Millville, Hopedale				
Culex Species	+39.49%	+50.22%	Wilmington, Sturbridge				
All Species	-13.50%	-39.64%	Sturbridge, Wilmington				

MMCP Mocquito Summary*

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

EPI Week 34 Narrative:

The temperatures for EPI week 34 averaged approximately 2.12 degrees cooler than the previous week, with only 0.32 inches of precipitation observed. Overall collection numbers decreased by 13.50% from EPI week 33. Despite the general decrease in

mosquito population, the only target mosquitoes collected in lower numbers from the prior surveillance period were *Aedes vexans* and *Coquillettidia perturbans*. To this point in the season, *Culex* is the only target mosquito that has been collected in higher numbers compared to 2016. *Culex* has now become the most abundant mosquito in the CMMCP service area followed by *Cq. perturbans*, which should continue to decrease moving forward. Two additional mosquito pools collected in EPI week 33 were determined to be WNV positive. These two collections were both *Culex* mosquitoes, sourced from the towns of Billerica and Milford. Milford had a previous WNV positive collection in EPI week 30, but it was from a different trap site. Recent ovitrap collections from Lowell produced three individual Aedes albopictus eggs.

We have received 179% more service requests than the 14 year average (15,953 in 2017 v. 8,928 14 yr. avg.), and 3.7% more than this time in 2016 (15,580 in 2017 v. 15,020 in 2016). Service requests decreased 38% from Epi week 33. 373 service requests were received and 603 requests were performed in Epi week 34 with favorable weather conditions. Vector spraying was done after consultation with the LBOH in Billerica & Milford after confirmation of WNV in *Culex*. Monitoring continues at the sites where *Ae. albopictus* was identified.











