

Central Mass. Mosquito Control Project Weekly Report- 9/3/17-9/9/17 EPI Week #36

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	80	371	68	200	970	3363
Total Specimens	350	17431	199	3435	17104	46772
No. Pools WNV +	0	0	0	0	14†	14†
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 Millbury on 8/11/17 [†]Pool of WNV+ *Culex* species collected in Billerica on 8/15/17 [†]Pool of WNV+ *Culex* species collected in Billerica on 8/15/17 [†]Pool of WNV+ *Culex* species collected in Fitchburg on 8/22/17 [†]Pool of WNV+ *Culex* species collected in Leominster on 8/22/17 [†]Pool of WNV+ *Culex* species collected in Dracut on 8/25/17 [†]Pool of WNV+ *Culex* species collected in Acton on 8/31/17 [†]Pool of WNV+ *Culex* species collected in Acton on 8/31/17

Weather Summary (Northborough, MA): The weather for this particular week averaged 63.36°F with a recorded high temperature of 87.40°F and a recorded low temperature of only 48.90°F. For this week there was also a total of 1.80 inches of rain observed. Compared to the previous week, it was approximately 3.45°F warmer on average, and rained about 1.77 inches more. There has been 1.80 inches of rain accumulated in September, after 1.15 inches for the month of August.

CMMCP Mosquito Summary-							
Target Species	Δ From	Δ From	Predominant Trap Site(s)				
	Last Week*	Last Year					
Aedes vexans	+50.00%	-52.62%	Ayer, Hopedale				
Coquillettidia perturbans	+00.00%	-65.25%	Westborough, Hopedale, Devens				
Culiseta melanura	+200.0%	-69.24%	Gardner				
Ochlerotatus canadensis	+00.00%	-34.51%	Hopedale				
Culex Species	-43.67%	+40.05%	Chelmsford, Lowell				
All Species	-13.58%	-39.29%	Hopedale, Chelmsford				
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CMMCP Mosquito Summary-

The predominant mosquito for the week was Culex, followed by Ochlerotatus japonicus.

*Low late season numbers may contribute to these comparisons being not as significant as they appear

Epi week 36 narrative: The temperatures for EPI week 36 averaged approximately 3.45 degrees warmer than the previous week, with 1.80 inches of precipitation observed. Overall collection numbers decreased by 13.58% from EPI week 35. The only target mosquito that were collected in lower numbers from the prior surveillance period was *Culex*. To this point in the season, *Culex* remains the only target mosquito that has been collected in higher numbers compared to 2016. *Culex* is still the most abundant mosquito in the CMMCP service area, followed by *Ochlerotatus japonicus* this week. Two additional mosquito pools collected in EPI week 35 were determined to be WNV positive. These collections were all *Culex* mosquitoes, sourced from the towns of Acton and Natick. EPI week 36 also saw CMMCP ovitraps produce 163 mosquito eggs, which will be used for *Aedes albopictus* surveillance.

For the year, we received 175% more service requests than the 14 year average (16,108 in 2017 v. 9,185 14 yr. avg.), and 5.4% more than 2016 (16,108 in 2017 v. 15,281 in 2016). The standard adulticiding program has ended due to lower nighttime temperatures, declining mosquito populations and fewer service requests. Vector spraying was done September 7 after consultation with the LBOH in Acton and Natick after confirmation of WNV in *Culex*. Monitoring continues at the sites where *Ae. albopictus* was identified.











