

Central Mass. Mosquito Control Project Weekly Report- 8/13/17-8/19/17 EPI Week #33

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	59	342	54	191	753	2687
Total Specimens	307	16090	152	3342	14774	42618
No. Pools WNV +	0	0	0	0	7†	7†
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 Sturbridge on 8/8/17

Weather Summary (Northborough, MA): The weather for this particular week averaged 71.21°F with a recorded high temperature of 88.70°F and a recorded low temperature of only 52.00°F. For this week there was also a total of 0.05 inches of rain observed. Compared to the previous week, it was approximately 2.30°F warmer on average, and rained about 0.07 inches less. There has been 0.80 inches of rain accumulated in August, after 2.04 inches for the month of July.

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	+36.99%	+60.22%	Westford, Stow, Milford
Coquillettidia perturbans	-13.94%	-67.28%	Devens, Hopkinton
Culiseta melanura	+15.38%	-77.18%	Stow
Ochlerotatus canadensis	-75.89%	-36.17%	Sturbridge, Acton, Westford
Culex Species	-60.09%	+57.85%	Shrewsbury, Gardner
All Species	-38.63%	-42.90%	Devens, Hopkinton

CMMCP Mosquito Summary*-

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

Epi Week 33 Narrative:

The temperatures for EPI week 33 averaged approximately 2.30 degrees warmer than the previous week, with only 0.05 inches of precipitation observed. Overall collection numbers decreased by 38.63% from EPI week 32. The only target mosquitoes to increase from the prior collection period were *Aedes vexans* and *Culiseta melanura*. To this point in the season, all target species have been collected in lower numbers

compared to 2016 aside from *Ae. vexans* and *Culex*. This week *Coquillettidia perturbans* was the most abundant mosquito in the CMMCP service area followed by *Culex*, although it is predicted that *Cq. perturbans* will continue to decrease as the season progresses. Three additional mosquito pools collected in EPI week 32 were determined to be WNV positive. These collections were all *Culex* mosquitoes from the towns of Webster, Sturbridge, and Millbury, which also had a WNV positive collection in EPI week 31, albeit from a different trap site.

We have received 181% more service requests than the 14 year average (15,580 in 2017 v. 8,588 14 yr. avg.), and 6.3% more than this time in 2016 (15,580 in 2017 v. 14,646 in 2016). Service requests decreased 4.27% from Epi week 32. 518 service requests were received and 432 requests were performed in Epi week 33 with favorable weather conditions. Wide area spraying was done after consultation with the LBOH in Auburn due to concerns about WNV spillover from the city of Worcester. Vector spraying was done in Millbury, Sturbridge and Webster after confirmation of WNV in *Culex* and coordination with local health officials. Monitoring continues at the site where *Ae. albopictus* was identified.















