

Central Mass. Mosquito Control Project
Weekly Report- 7/8/18-7/14/18
EPI Week #28

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	19	238	41	122	565	1787
Total Specimens	152	25676	77	1901	17806	49290
No. Pools WNV +	0	0	0	0	4 [†]	4 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* species collected in Hopedale on 6/20/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 6/28/18

[†]Pool of WNV+ *Culex* species collected in Auburn on 6/29/18

[†]Pool of WNV+ *Culex* species collected in Millbury on 7/6/18

Weather Summary (Northborough, MA): The weather for this particular week averaged 72.5°F with a recorded high temperature of 91.9°F and a recorded low temperature of only 54.1°F. For this week there was no significant precipitation observed. Compared to the previous week, it was approximately 6.52°F cooler on average, and rained about 0.23 inches less. There has been 0.23 inches of rain accumulated in July, after 3.60 inches for the month of June.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-	+74.68%	Natick
<i>Coquillettidia perturbans</i>	-	+1290%	Ayer, Westford, Dracut
<i>Culiseta melanura</i>	-	+284.2%	Gardner
<i>Ochlerotatus canadensis</i>	-	-30.43%	Lunenburg, Lowell
<i>Culex</i> Species	+61.61%	+523.9%	Worcester, Ayer, Shrewsbury
All Species	+425.9%	+395.5%	Ayer, Westford, Dracut

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

General narrative: The temperatures for EPI week 28 averaged approximately 6.52 degrees cooler than the previous week, with zero significant precipitation observed. Overall collection numbers significantly increased when compared to the previous week, with the cumulative collections remaining significantly higher compared to last season as well. Only *Ochlerotatus canadensis* of the target mosquitoes experienced a decrease this week. The most abundant mosquito was *Coquillettidia perturbans*, followed now by *Culex* species. A pool of *Culex* species from Millbury tested positive for West Nile virus. It is the fourth WNV positive collection from the CMMCP service area.