

Central Mass. Mosquito Control Project
Weekly Report- 7/15/18-7/21/18
EPI Week #29

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	28	290	52	129	691	2157
Total Specimens	174	31336	115	1941	21309	58609
No. Pools WNV +	0	0	0	0	11 [†]	11 [†]
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

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/11/18

[†]Pool of WNV+ *Culex* species collected in Northborough on 7/11/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/12/18

[†]Pool of WNV+ *Culex* species collected in Acton on 7/12/18

[†]Pool of WNV+ *Culex* species collected in Acton on 7/12/18

[†]Pool of WNV+ *Culex* species collected in Auburn on 7/13/18

[†]Pool of WNV+ *Culex* species collected in Ayer on 7/13/18

Weather Summary (Northborough, MA): The weather for this particular week averaged 72.1°F with a recorded high temperature of 91.7°F and a recorded low temperature of only 53.0°F. For this week there was also a total of 2.36 inches of rain observed. Compared to the previous week, it was approximately 0.44°F cooler on average, and rained about 2.36 inches more. There has been 2.59 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>	-80.53%	+64.95%	Milford, Sturbridge, Wilmington
<i>Coquillettidia perturbans</i>	-44.17%	+470.7%	Gardner, Webster, Wilmington
<i>Culiseta melanura</i>	+3700%	+170.7%	Gardner, Wilmington, Berlin
<i>Ochlerotatus canadensis</i>	+81.82%	-37.30%	Fitchburg, Leominster
<i>Culex</i> Species	-23.43%	+342.5%	Worcester
All Species	-35.26%	+247.9%	Gardner, Wilmington, Webster

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

General narrative: The temperatures for EPI week 29 averaged approximately 0.44 degrees cooler than the previous week, with 2.36 inches of precipitation observed.

Overall collection numbers decreased when compared to the previous week, although the cumulative collections remaining significantly higher compared to last season. Only *Ochlerotatus canadensis* and *Culiseta melanura* of the target mosquitoes experienced an increase this week. The most abundant mosquito was *Coquillettidia perturbans*, followed again by *Culex* species. Seven pools of *Culex* species from 5 communities in EPI week 28 tested positive for West Nile virus. These pools were collected from Acton, Auburn, Ayer, Northborough and Worcester, bringing the season total to eleven WNV positive collections from the CMMCP service area. The final number of eggs collected for *Aedes albopictus* surveillance was 1,296 for the previous week, EPI week 28.