

Central Mass. Mosquito Control Project
Weekly Report- 7/29/18-8/4/18
EPI Week #31

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	49	375	71	142	923	2838
Total Specimens	236	38513	181	1978	26504	72218
No. Pools WNV +	0	0	0	0	36 [†]	36 [†]
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

[†]Pool of WNV+ *Culex* species collected in Blackstone on 7/17/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/19/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/19/18

[†]Pool of WNV+ *Culex* species collected in Clinton on 7/19/18

[†]Pool of WNV+ *Culex* species collected in Ashland on 7/19/18

[†]Pool of WNV+ *Culex* species collected in Northbridge on 7/20/18

[†]Pool of WNV+ *Culex* species collected in Devens on 7/20/18

[†]Pool of WNV+ *Culex* species collected in Devens on 7/20/18

[†]Pool of WNV+ *Culex* species collected in Berlin on 7/24/18

[†]Pool of WNV+ *Culex* species collected in Webster on 7/24/18

[†]Pool of WNV+ *Culex* species collected in Millville on 7/24/18

[†]Pool of WNV+ *Culex* species collected in Hopedale on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Shrewsbury on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Northborough on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Northborough on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Northborough on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Northborough on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/25/18

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/26/18

[†]Pool of WNV+ *Culex* species collected in Clinton on 7/26/18

[†]Pool of WNV+ *Culex* species collected in Clinton on 7/26/18

[†]Pool of WNV+ *Culex* species collected in Natick on 7/26/18

†Pool of WNV+ *Culex* species collected in Lancaster on 7/20/18

Weather Summary (Northborough, MA): The weather for this particular week averaged 74.6°F with a recorded high temperature of 92.5°F and a recorded low temperature of only 59.0°F. For this week there was also a total of 0.76 inches of rain observed. Compared to the previous week, it was approximately 0.73°F cooler on average, and rained about 1.20 inches less. There has been 0.76 inches of rain accumulated in August, after 4.55 inches for the month of July.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+213.3%	+68.18%	Stow, Lowell
<i>Coquillettidia perturbans</i>	+99.67%	+217.0%	Littleton, Stow
<i>Culiseta melanura</i>	-6.670%	+131.5%	Westford, Stow
<i>Ochlerotatus canadensis</i>	-52.00%	-38.94%	Acton
<i>Culex</i> Species	-19.51%	+144.5%	Northborough, Worcester, Ayer
All Species	+26.31%	+129.7%	Littleton

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

General narrative: The temperatures for EPI week 31 averaged approximately 0.73 degrees cooler than the previous week, with 0.76 inches of precipitation observed. Overall collection numbers increased compared to the previous week. The cumulative collections remained significantly higher compared to last season as well. Of the target mosquitoes, only *Aedes vexans* and *Coquillettidia perturbans* experienced increases this week compared to EPI week 30. The most abundant mosquito was *Coquillettidia perturbans*, now followed by *Culex* species. Seventeen pools of *Culex* mosquitoes from EPI week 30 tested positive for West Nile virus. These pools were collected from Berlin, Clinton, Hopedale, Lancaster, Millville, Natick, Northborough, Shrewsbury, Webster, and Worcester, bringing the season total to thirty-six WNV positive collections from the CMMCP service area. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 30 was 668.