

Central Mass. Mosquito Control Project
Weekly Report- 8/5/18-8/11/18
EPI Week #32

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	69	428	86	149	1017	3193
Total Specimens	515	43764	238	2016	27983	79874
No. Pools WNV +	0	0	0	0	53 [†]	53 [†]
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
- †Pool of WNV+ *Culex* species collected in Southborough on 8/1/18
- †Pool of WNV+ *Culex* species collected in Southborough on 8/1/18
- †Pool of WNV+ *Culex* species collected in Northborough on 8/1/18
- †Pool of WNV+ *Culex* species collected in Northborough on 8/1/18
- †Pool of WNV+ *Culex* species collected in Northborough on 8/1/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/1/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/1/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/1/18
- †Pool of WNV+ *Culex* species collected in Shrewsbury on 8/1/18
- †Pool of WNV+ *Culex* species collected in Hudson on 8/1/18
- †Pool of WNV+ *Culex* species collected in Clinton on 8/2/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/2/18
- †Pool of WNV+ *Culex* species collected in Worcester on 8/2/18
- †Pool of WNV+ *Culex* species collected in Boylston on 8/2/18
- †Pool of WNV+ *Culex* species collected in Auburn on 8/3/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/3/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/3/18

Weather Summary (Northborough, MA): The weather for this particular week averaged 76.7°F with a recorded high temperature of 94.2°F and a recorded low temperature of only 64.0°F. For this week there was also a total of 0.78 inches of rain observed. Compared to the previous week, it was approximately 2.1°F warmer on average, and rained about 0.02 inches more. There has been 1.54 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>	+426.9%	+144.4%	Shrewsbury, Millbury, Holliston
<i>Coquillettidia perturbans</i>	-4.960%	+193.0%	Tewksbury, Shrewsbury
<i>Culiseta melanura</i>	+103.6%	+128.3%	Wilmington
<i>Ochlerotatus canadensis</i>	+216.7%	-43.05%	Shrewsbury
<i>Culex</i> Species	-35.93%	+107.0%	Devens, Northborough
All Species	-8.580%	+107.5%	Shrewsbury, Tewksbury

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

General narrative: The temperatures for EPI week 32 averaged approximately 2.10 degrees warmer than the previous week, with 0.78 inches of precipitation observed. Overall collection numbers slightly decreased compared to the previous week. The cumulative collections remained significantly higher compared to last season. Of the target mosquitoes, only *Culex* and *Coquillettidia perturbans* experienced decreases this week compared to EPI week 31. The most abundant mosquito was *Coquillettidia perturbans*, still followed by *Culex* species. Seventeen pools of *Culex* mosquitoes from

EPI week 31 tested positive for West Nile virus. These pools were collected from Auburn, Ayer, Boylston, Clinton, Hudson, Northborough, Shrewsbury, Southborough, and Worcester, bringing the season total to fifty-three WNV positive collections from the CMMCP service area. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 31 was 2,172.