

Central Mass. Mosquito Control Project
Weekly Report- 9/2/18-9/8/18
EPI Week #36

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	147	536	132	167	1366	4426
Total Specimens	1653	47028	329	2103	32962	91849
No. Pools WNV +	0	1 [†]	0	0	142 [†]	144 [†]
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
†Pool of WNV+ *Culex* species collected in Wilmington on 8/7/18
†Pool of WNV+ *Coquillettidia perturbans* collected in Sturbridge on 8/7/18
†Pool of WNV+ *Culex* species collected in Gardner on 8/7/18
†Pool of WNV+ *Culex* species collected in Leominster on 8/7/18
†Pool of WNV+ *Culex* species collected in Leominster on 8/7/18
†Pool of WNV+ *Culex* species collected in Berlin on 8/7/18
†Pool of WNV+ *Culex* species collected in Worcester on 8/8/18
†Pool of WNV+ *Culex* species collected in Worcester on 8/8/18
†Pool of WNV+ *Culex* species collected in Hudson on 8/8/18
†Pool of WNV+ *Culex* species collected in Milford on 8/8/18
†Pool of WNV+ *Culex* species collected in Marlborough on 8/8/18
†Pool of WNV+ *Culex* species collected in Northborough on 8/8/18
†Pool of WNV+ *Culex* species collected in Northborough on 8/8/18
†Pool of WNV+ *Culex* species collected in Shrewsbury on 8/8/18
†Pool of WNV+ *Culex* species collected in Worcester on 8/9/18
†Pool of WNV+ *Culex* species collected in Clinton on 8/9/18
†Pool of WNV+ *Culex* species collected in Devens on 8/10/18
†Pool of WNV+ *Culex* species collected in Devens on 8/10/18
†Pool of WNV+ *Culex* species collected in Dracut on 8/10/18
†Pool of WNV+ *Culex* species collected in Sturbridge on 8/14/18
†Pool of WNV+ *Culex* species collected in Worcester on 8/15/18
†Pool of WNV+ *Culex* species collected in Blackstone on 8/15/18
†Pool of WNV+ *Culex* species collected in Blackstone on 8/15/18
†Pool of WNV+ *Culex* species collected in Worcester on 8/15/18
†Pool of WNV+ *Culex* species collected in Hopedale on 8/15/18
†Pool of WNV+ *Culex* species collected in Hopedale on 8/15/18
†Pool of WNV+ *Culex* species collected in Stow on 8/15/18
†Pool of WNV+ *Culex* species collected in Southborough on 8/15/18

- †Pool of WNV+ *Culex* species collected in Shrewsbury on 8/29/18
- †Pool of WNV+ *Culex* species collected in Stow on 8/29/18
- †Pool of WNV+ *Culex* species collected in Clinton on 8/30/18
- †Pool of WNV+ *Culex* species collected in Clinton on 8/30/18
- †Pool of WNV+ *Culex* species collected in Littleton on 8/30/18
- †Pool of WNV+ *Culex* species collected in Acton on 8/30/18
- †Pool of WNV+ *Anopheles quadrimaculatus* collected in Acton on 8/30/18
- †Pool of WNV+ *Culex* species collected in Sherborn on 8/30/18
- †Pool of WNV+ *Culex* species collected in Ashland on 8/30/18
- †Pool of WNV+ *Culex* species collected in Ashland on 8/30/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/31/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/31/18
- †Pool of WNV+ *Culex* species collected in Ayer on 8/31/18
- †Pool of WNV+ *Culex* species collected in Auburn on 8/31/18
- †Pool of WNV+ *Culex* species collected in Northbridge on 8/31/18
- †Pool of WNV+ *Culex* species collected in Dracut on 8/31/18
- †Pool of WNV+ *Culex* species collected in Northbridge on 8/31/18

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.9°F with a recorded high temperature of 94.9°F and a recorded low temperature of only 52.3°F. For this week there was also a total of 0.12 inches of rain observed. Compared to the previous week, it was approximately 1.5°F cooler on average, and rained about 0.08 inches more. There has been 0.12 inches of rain accumulated in September, after 2.30 inches for the month of August.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+141.7%	+516.3%	Lowell, Chelmsford
<i>Coquillettidia perturbans</i>	-86.75%	+151.1%	Littleton
<i>Culiseta melanura</i>	+30.43%	+83.24%	Northbridge
<i>Ochlerotatus canadensis</i>	+300.0%	-42.89%	Devens, Boylston
<i>Culex</i> Species	-67.80%	+98.27%	Worcester, Shrewsbury
All Species	-51.64%	+93.52%	Lowell, Chelmsford

The predominant mosquito for the week was *Aedes vexans*, followed by *Culex* species.

General narrative: The temperatures for EPI week 36 averaged approximately 1.5°F cooler than the previous week, with only 0.12 inches of precipitation observed. The overall collection numbers decreased compared to the previous week, with the cumulative collections remaining significantly higher compared to last season. All target species experienced increases this week, except for *Coquillettidia perturbans*, and *Culex* mosquitoes. The most abundant mosquito was *Aedes vexans* followed by *Culex* species. Thirty-four pools from EPI week 35 tested positive for West Nile virus, all *Culex* mosquitoes aside from one pool of *Anopheles quadrimaculatus*. These pools were

collected from Acton, Ashland, Auburn, Ayer, Billerica, Chelmsford, Clinton, Dracut, Littleton, Marlborough, Millville, Northbridge, Sherborn, Shrewsbury, Southborough, Stow, Tewksbury, Wilmington, and Worcester. The season total of WNV positive collections from the CMMCP service area is currently 144. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 35 was 1638.