

**Central Mass. Mosquito Control Project**  
**Weekly Report- 8/19/18-8/25/18**  
**EPI Week #34**

**Cumulative Surveillance Summary**

<b>Target Species</b>	<b><i>Ae. vex</i></b>	<b><i>Cq. per</i></b>	<b><i>Cs. mel</i></b>	<b><i>Oc. can</i></b>	<b><i>Culex</i></b>	<b>All Species</b>
<b>No. Pools</b>	108	496	108	158	1198	3835
<b>Total Specimens</b>	824	45117	276	2026	30152	84570
<b>No. Pools WNV +</b>	0	1 <sup>†</sup>	0	0	109 <sup>†</sup>	110 <sup>†</sup>
<b>No. Pools EEE +</b>	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+ *Coquilleltidia 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 Hopedale on 8/15/18

†Pool of WNV+ *Culex* species collected in Worcester on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Natick on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Littleton on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Worcester on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Ashland on 8/16/18  
 †Pool of WNV+ *Culex* species collected in Northbridge on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Lunenburg on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Westborough on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Westborough on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Auburn on 8/17/18  
 †Pool of WNV+ *Culex* species collected in Leominster on 8/21/18  
 †Pool of WNV+ *Culex* species collected in Wilmington on 8/21/18  
 †Pool of WNV+ *Culex* species collected in Berlin on 8/21/18  
 †Pool of WNV+ *Culex* species collected in Milford on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Stow on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Northborough on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Marlborough on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Worcester on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Worcester on 8/22/18  
 †Pool of WNV+ *Culex* species collected in Westborough on 8/24/18  
 †Pool of WNV+ *Culex* species collected in Auburn on 8/24/18  
 †Pool of WNV+ *Culex* species collected in Lowell on 8/24/18  
 †Pool of WNV+ *Culex* species collected in Lancaster on 8/24/18  
 †Pool of WNV+ *Culex* species collected in Ayer on 8/24/18

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 67.9°F with a recorded high temperature of 84.6°F and a recorded low temperature of only 53.6°F. For this week there was also a total of 0.14 inches of rain observed. Compared to the previous week, it was approximately 5.7°F cooler on average, and rained about 0.44 inches less. There has been 2.26 inches of rain accumulated in August, after 4.55 inches for the month of July.

#### **CMMCP Mosquito Summary-**

<b>Target Species</b>	<b>Δ From Last Week</b>	<b>Δ From Last Year</b>	<b>Predominant Trap Site(s)</b>
<i>Aedes vexans</i>	+1143%	+153.9%	Acton, Lowell
<i>Coquillettidia perturbans</i>	-46.25%	+140.0%	Leominster, Tewksbury
<i>Culiseta melanura</i>	+37.50%	+53.49%	Gardner, Stow
<i>Ochlerotatus canadensis</i>	+50.00%	-45.22%	Leominster, Gardner, Hopkinton
<i>Culex</i> Species	-52.95%	+87.27%	Ayer, Westborough
All Species	-29.17%	+81.29%	Acton, Leominster, Lowell

The predominant mosquito for the week was *Culex* species,

followed by *Coquillettidia perturbans*.

**General narrative:** The temperatures for EPI week 34 averaged approximately 5.7 degrees cooler than the previous week, with only 0.14 inches of precipitation observed. Once again the overall collection numbers decreased compared to the previous week, although the cumulative collections remain significantly higher compared to last season. *Aedes vexans* experienced the most significant increase from the previous week. The most abundant mosquito was again *Culex* species, followed by *Coquillettidia perturbans*. Twenty-four pools of *Culex* mosquitoes from EPI week 33 tested positive for West Nile virus. These pools were collected from Ashland, Auburn, Blackstone, Hopedale, Littleton, Lunenburg, Natick, Northbridge, Southborough, Stow, Sturbridge, Westborough, and Worcester. The season total of WNV positive collections from the CMMCP service area is currently ninety-six. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 33 was 1219.