

Central Mass. Mosquito Control Project
Weekly Report- 7/22/18-7/28/18
EPI Week #30

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	36	324	63	138	817	2491
Total Specimens	189	33731	180	1966	24206	64629
No. Pools WNV +	0	0	0	0	19 [†]	19 [†]
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

Weather Summary (Northborough, MA): The weather for this particular week averaged 75.3°F with a recorded high temperature of 90.2°F and a recorded low temperature of only 63.0°F. For this week there was also a total of 1.96 inches of rain observed. Compared to the previous week, it was approximately 3.23°F warmer on average, and rained about 0.40 inches less. There has been 4.55 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)
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<i>Aedes vexans</i>	-31.82%	+63.55%	Gardner, Millville
<i>Coquillettidia perturbans</i>	-57.69%	+305.9%	Shrewsbury, Southborough
<i>Culiseta melanura</i>	-21.05%	+143.1%	Millville, Ashland
<i>Ochlerotatus canadensis</i>	-37.50%	-37.32%	Leominster, Gardner

<i>Culex</i> Species	-19.05%	+228.6%	Northborough
All Species	-39.33%	+179.1%	Shrewsbury, Southborough, Northborough

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

General narrative: The temperatures for EPI week 30 averaged approximately 3.23 degrees warmer than the previous week, with 1.96 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. All of the target mosquitoes experienced decreases this week compared to EPI week 29. The most abundant mosquito was *Culex* species, now followed by *Coquillettidia perturbans*. Eight pools of *Culex* mosquitoes from EPI week 29 tested positive for West Nile virus. These pools were collected from Ashland, Blackstone, Clinton, Devens, Northbridge, and Worcester, bringing the season total to nineteen WNV positive collections from the CMMCP service area. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 29 was 1,191.