

**Central Mass. Mosquito Control Project**  
**Weekly Report- 6/24/18-6/30/18**  
**EPI Week #26**

**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	13	180	40	111	363	1318
Total Specimens	33	15509	76	1873	10319	30357
No. Pools WNV +	0	0	0	0	1 <sup>†</sup>	1 <sup>†</sup>
No. Pools EEE +	0	0	0	0	0	0

<sup>†</sup>Pool of WNV+ *Culex* species collected in Hopedale on 6/20/18

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 70.30°F with a recorded high temperature of 93.0°F and a recorded low temperature of only 47.4°F. For this week there was also a total of 2.70 inches of rain observed. Compared to the previous week, it was approximately 1.30°F warmer on average, and rained about 2.32 inches more. There has been 3.60 inches of rain accumulated in June, after 1.91 inches for the month of May.

**CMMCP Mosquito Summary-**

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+75.00%	-68.35%	Sturbridge, Hopedale
<i>Coquillettidia perturbans</i>	-29.43%	+656.3%	Sturbridge, Westboro, Shrewsbury
<i>Culiseta melanura</i>	-68.00%	+278.9%	Hopedale
<i>Ochlerotatus canadensis</i>	-84.77%	-31.31%	Hopedale
<i>Culex</i> Species	+53.39%	-307.0%	Worcester, Boylston, Southborough
All Species	-8.170%	+193.0%	Sturbridge, Westboro, Shrewsbury

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

**General narrative:** The temperatures for EPI week 26 averaged approximately 1.30 degrees warmer than the previous week, with 2.70 inches of precipitation observed. Overall collection numbers slightly decreased when compared to the previous week, although cumulative collections remained significantly higher compared to last season. Only *Aedes vexans* and *Culex* species of the target mosquitoes experienced significant increases this week. The most abundant mosquito was *Culex* species, followed now by *Coquillettidia perturbans*. A pool of *Culex* species from Hopedale tested positive for West Nile virus. It is the first WNV positive collection from the CMMCP service area. The large rain event that occurred this week may result in an increase of relood mosquito species.