

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #23
June 2-8, 2019

Frank Cornine, *Field Biologist*
Curtis Best, *Staff Entomologist*
David Mullins, *Field Biologist*
Tim McGlinchy, *Director of Operations*
Tim Deschamps, *Executive Director*

Central Mass. Mosquito Control Project
Weekly Report- 6/2/19-6/8/19
EPI Week #23

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	3	3	14	18	73	163
Total Specimens	67	10	244	313	1432	2472
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 67.03°F with a recorded high temperature of 85.6°F and a recorded low temperature of only 42.6°F. For this week there was also a total of 0.16 inches of rain observed. Compared to the previous week, it was approximately 5.27°F warmer on average, and rained about 0.47 inches less. There has been 0.16 inches of rain accumulated in June.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+8600%	+486.7%	Northbridge, Hopkinton
<i>Coquillettidia perturbans</i>	+900.0%	-95.70%	Hopkinton, Sherborn
<i>Culiseta melanura</i>	+24300%	+690.3%	Natick, Northbridge
<i>Ochlerotatus canadensis</i>	+15450%	-45.18%	Lowell, Boylston
<i>Culex</i> Species	+901.5%	+68.87%	Northborough, Worcester
All Species	+1472%	-5.640%	Northbridge, Northborough

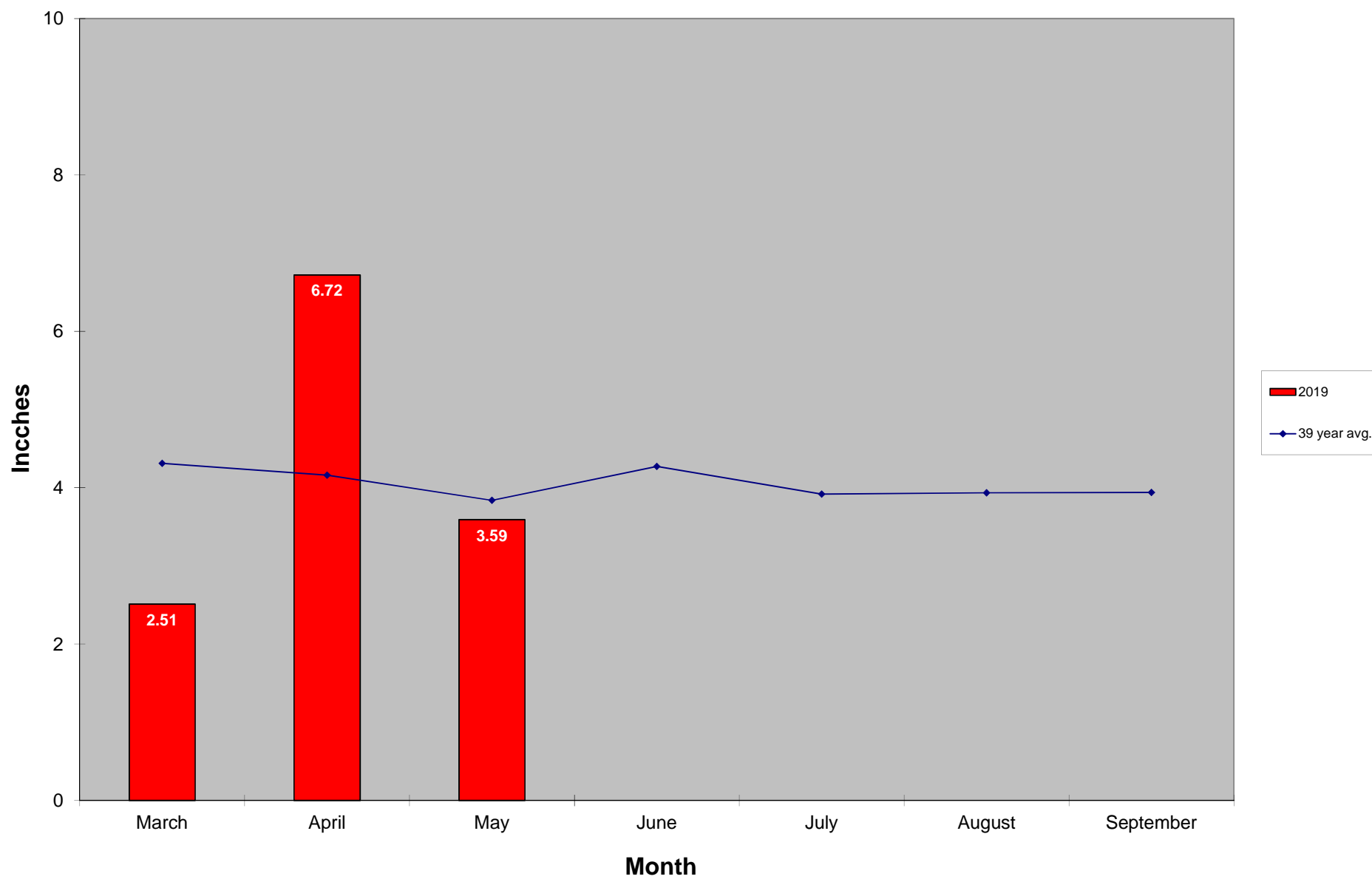
The predominant mosquito for the week was *Culex* species,
followed by *Ochlerotatus canadensis*.

General narrative: The temperatures for EPI week 23 averaged approximately 5.27 degrees warmer than the previous week, with 0.16 inches of precipitation observed. This was the first full week of mosquito surveillance. Increased emergence was observed for all target species. *Culex* remained the most abundant mosquito, followed by mosquitoes *Ochlerotatus canadensis*. *Aedes vexans*, *Coquillettidia perturbans*, and *Culiseta melanura* were collected for the first time this season. Increasing temperatures and additional emergence should contribute to higher collections moving forward. *Aedes vexans*, *Culex*, and *Culiseta melanura* have all been collected in higher numbers this year compared to last. The final number of eggs collected for *Aedes albopictus* surveillance during EPI week 23 was 221.

Service requests decreased 80.6% from Epi week 22 (2,216 vs. 4,003). Requests are nearly double (99.5%) overall than the 16 year average (6,219 vs. 3,116) but overall

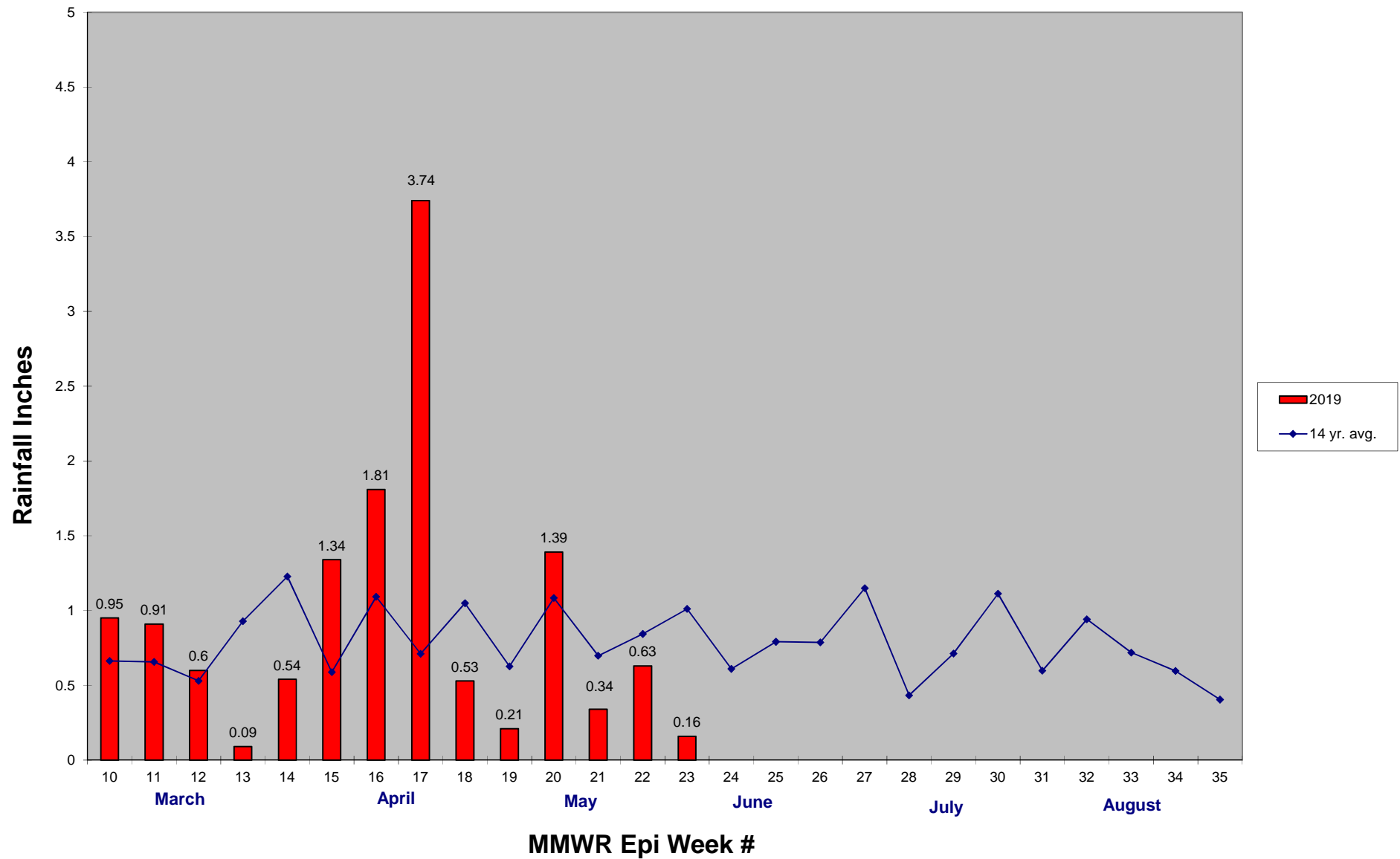
19.2% lower than 2018 numbers (7,415 vs. 6,219). Work crews have been performing catch basins treatments in 2018 WNV areas. ULV spraying has started as of June 3, 2019. 7,602 catch basins were treated in Epi week 23, and treatments will continue throughout the summer months. Our tire recycling program has been scaled back a bit but will continue as time and staff availability dictate.

2019 Mass. Rainfall Data vs. 39 Year Average*



*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2019 CMMCP Weekly Rainfall vs. 14 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2019

