

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #24
June 9-15, 2019

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Central Mass. Mosquito Control Project
Weekly Report- 6/9/19-6/15/19
EPI Week #24

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	29	34	50	109	470
Total Specimens	128	216	374	967	1549	4189
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 64.60°F with a recorded high temperature of 86.60°F and a recorded low temperature of only 48.90°F. For this week there was also a total of 1.04 inches of rain observed. Compared to the previous week, it was approximately 2.43°F cooler on average, and rained about 0.88 inches more. There has been 1.20 inches of rain accumulated in 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>	-52.87%	+706.3%	Acton
<i>Coquilleltidia perturbans</i>	+1960.0%	-87.09%	Hopkinton, Acton
<i>Culiseta melanura</i>	-46.72%	+715.2%	Wilmington
<i>Ochlerotatus canadensis</i>	+110.3%	+26.24%	Boxborough, Stow
<i>Culex</i> Species	-91.01%	-39.09%	Acton, Hudson
All Species	-26.18%	-34.67%	Stow, Boxborough

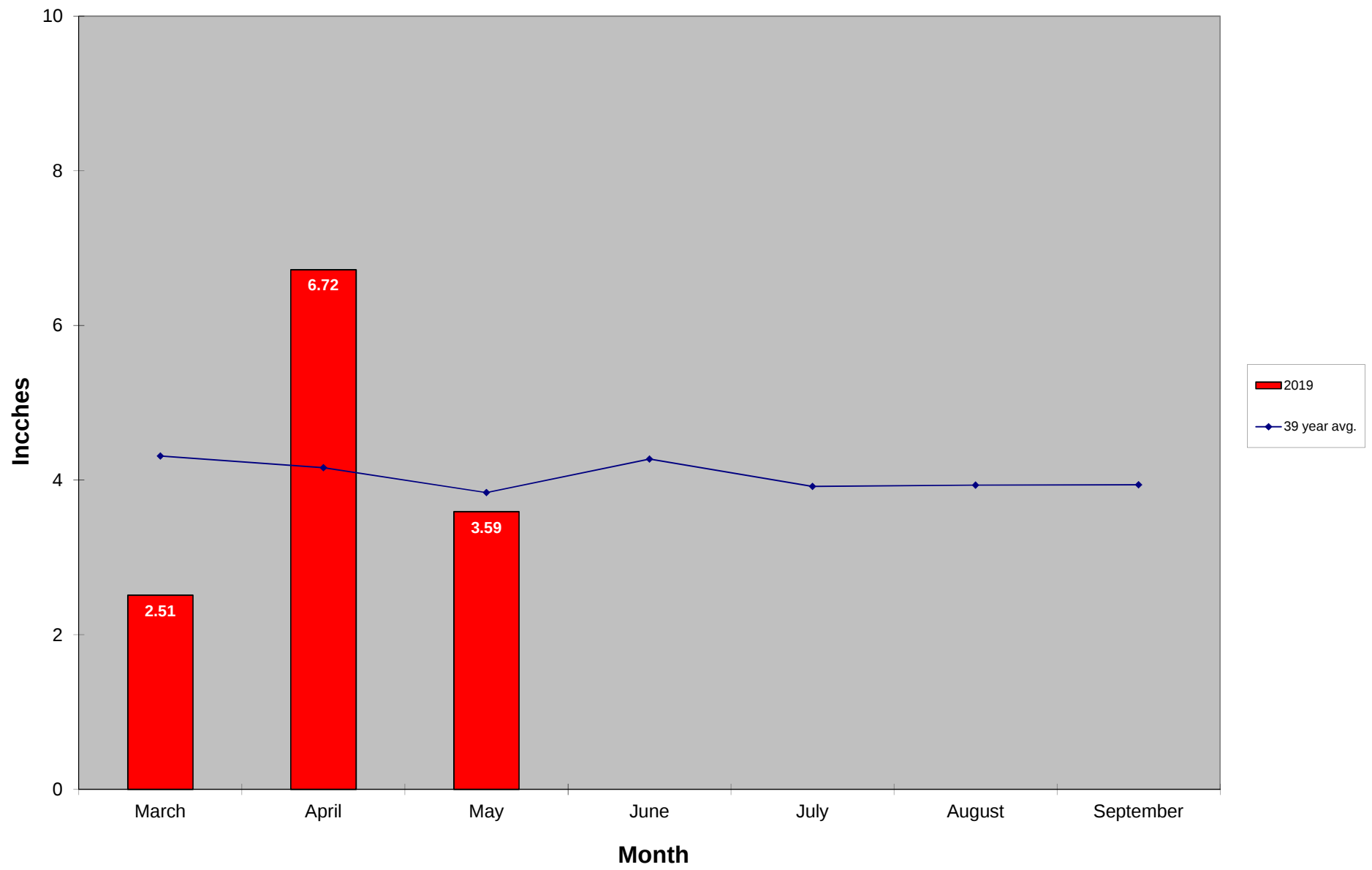
The predominant mosquito for the week was *Ochlerotatus canadensis*, followed by *Coquilleltidia perturbans*.

General narrative: The temperatures for EPI week 24 averaged approximately 2.43°F cooler than the previous week, with 1.04 inches of precipitation observed. *Increased* emergence was observed for *Coquilleltidia perturbans* and *Ochlerotatus canadensis*. *Ochlerotatus canadensis* was most abundant mosquito species for the week, followed by *Coquilleltidia perturbans*. Increasing temperatures and additional emergence should contribute to higher collections moving forward. *Aedes vexans* 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 24 was 530. No *Ae. albopictus* have been identified in the CMMCP area to date.

Service requests are 83.6% greater than the 16 year average (7,548 vs. 4,109) but 17.7% lower than 2018 numbers (8,886 vs. 7,548). Work crews have been performing catch basins treatments in 2018 WNV areas. ULV spraying has started on June 3, 2019. 6,865

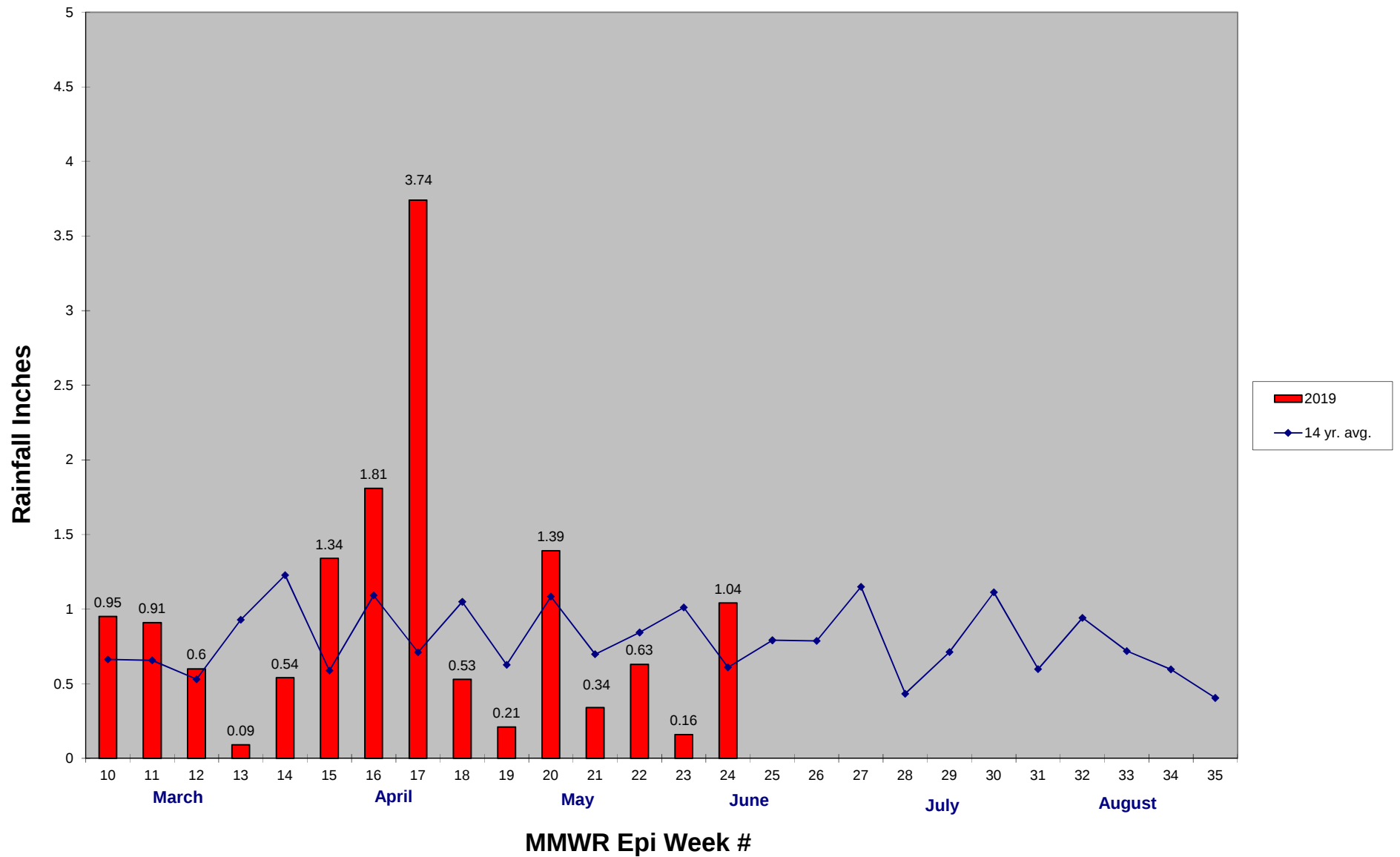
catch basins were treated in Epi week 24, and treatments will continue throughout the summer months. Our tire recycling program has been scaled back a bit but will continue as time and staff availability dictate.

2019 Mass. Rainfall Data vs. 39 Year Average*



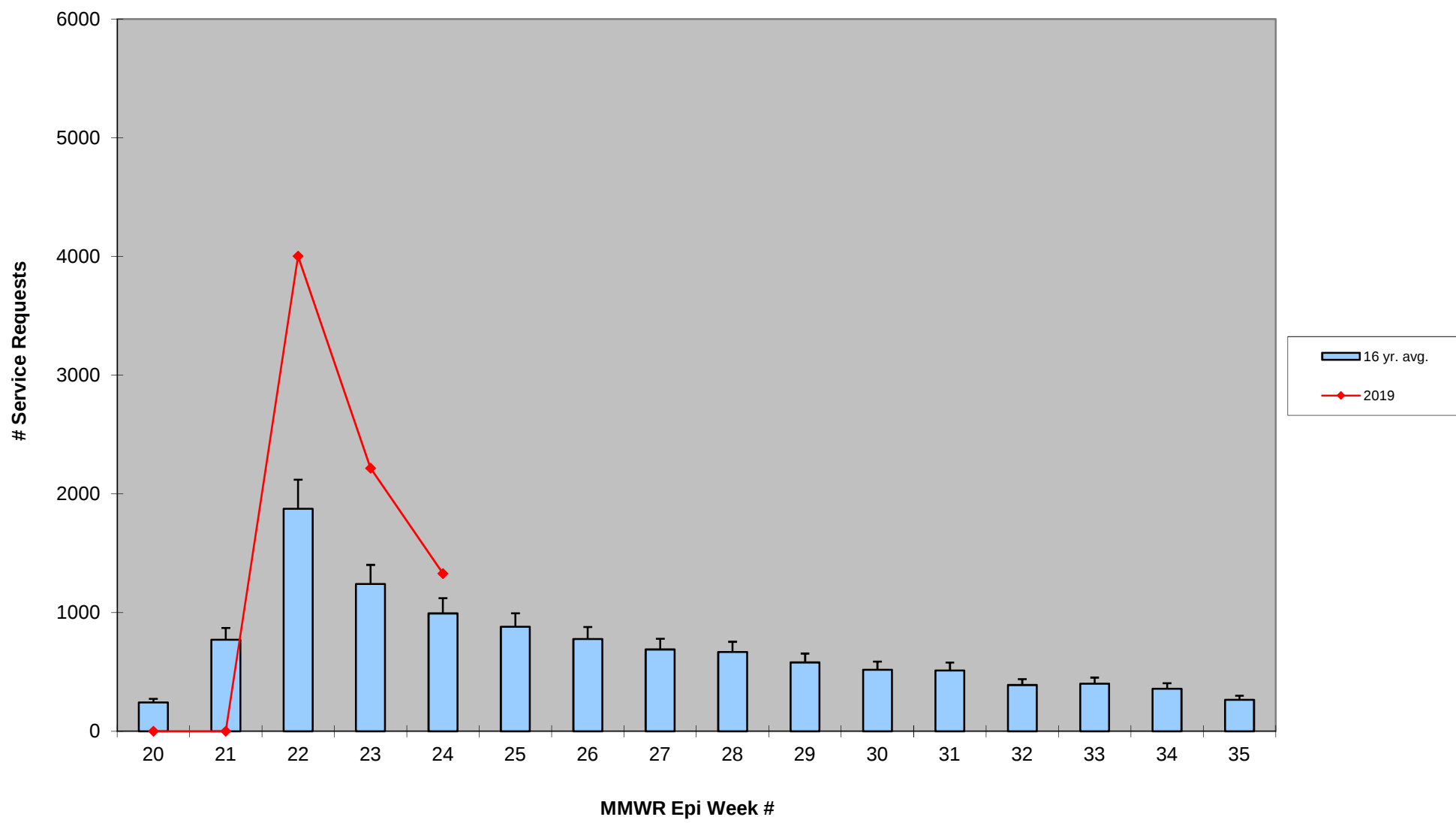
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2019 CMMCP Weekly Rainfall vs. 14 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2019



2019 Rainfall vs. Requests

