

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #24
June 7-13, 2020

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Central Mass. Mosquito Control Project
Weekly Report- 6/7/20-6/13/20
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	17	25	28	56	38	540
Total Specimens	128	294	186	833	163	3074
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 67.27°F with a recorded high temperature of 85.60°F and a recorded low temperature of only 50.30°F. For this week there was also a total of 0.35 inches of rain observed. Compared to the previous week, it was approximately 1.58°F warmer on average, and rained about 0.03 inches more. There has been 0.67 inches of rain accumulated in June, after 1.68 inches for the month of May.

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>	-72.92%	-68.29%	Acton, Wilmington
<i>Coquilleltidia perturbans</i>	+4700%	+39.81%	Marlborough, Westford
<i>Culiseta melanura</i>	+425.0%	+13.08%	Wilmington, Westford
<i>Ochlerotatus canadensis</i>	-60.94%	-74.62%	Sturbridge, Wilmington
<i>Culex</i> Species	+2920%	+29.06%	Shrewsbury
All Species	-1.55%	-33.31%	Marlborough, Wilmington

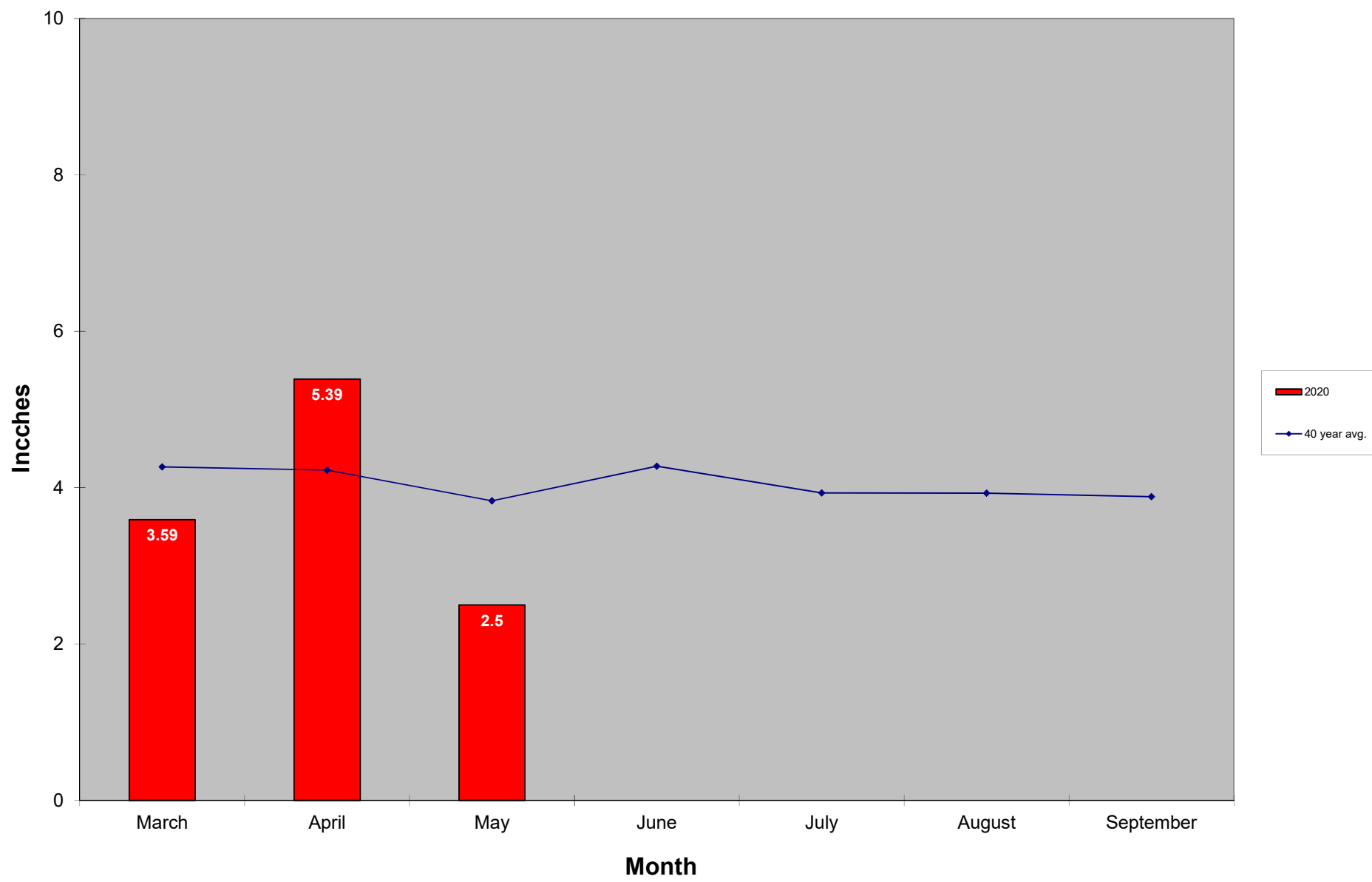
The predominant mosquito for the week was *Coquilleltidia perturbans*, followed by *Ochlerotatus canadensis*.

General narrative: The temperatures for EPI week 24 averaged approximately 1.58°F warmer than the previous week, with 0.35 inches of precipitation observed. Increased emergence was observed for *Coquilleltidia perturbans*, *Culiseta melanura*, and *Culex* spp. *Coquilleltidia perturbans* was most abundant mosquito species for the week, followed by *Ochlerotatus canadensis*. Increasing temperatures and additional emergence *Coquilleltidia perturbans* should contribute to higher collections moving forward. Compared to the 2019 season, overall mosquito surveillance numbers are down this year. Collections from EPI week 24 will be submitted to MDPH for arbovirus testing. *Aedes albopictus* surveillance using ovitraps has not yet started.

Service requests are 47.9% greater than the 17-year average (1,013 vs. 1,499) and 12.7% higher than Epi week 24 numbers from 2019 (1,499 vs. 1,329). Services requests dropped 39.6% from Epi week 23. Work crews are performing catch basins treatments in

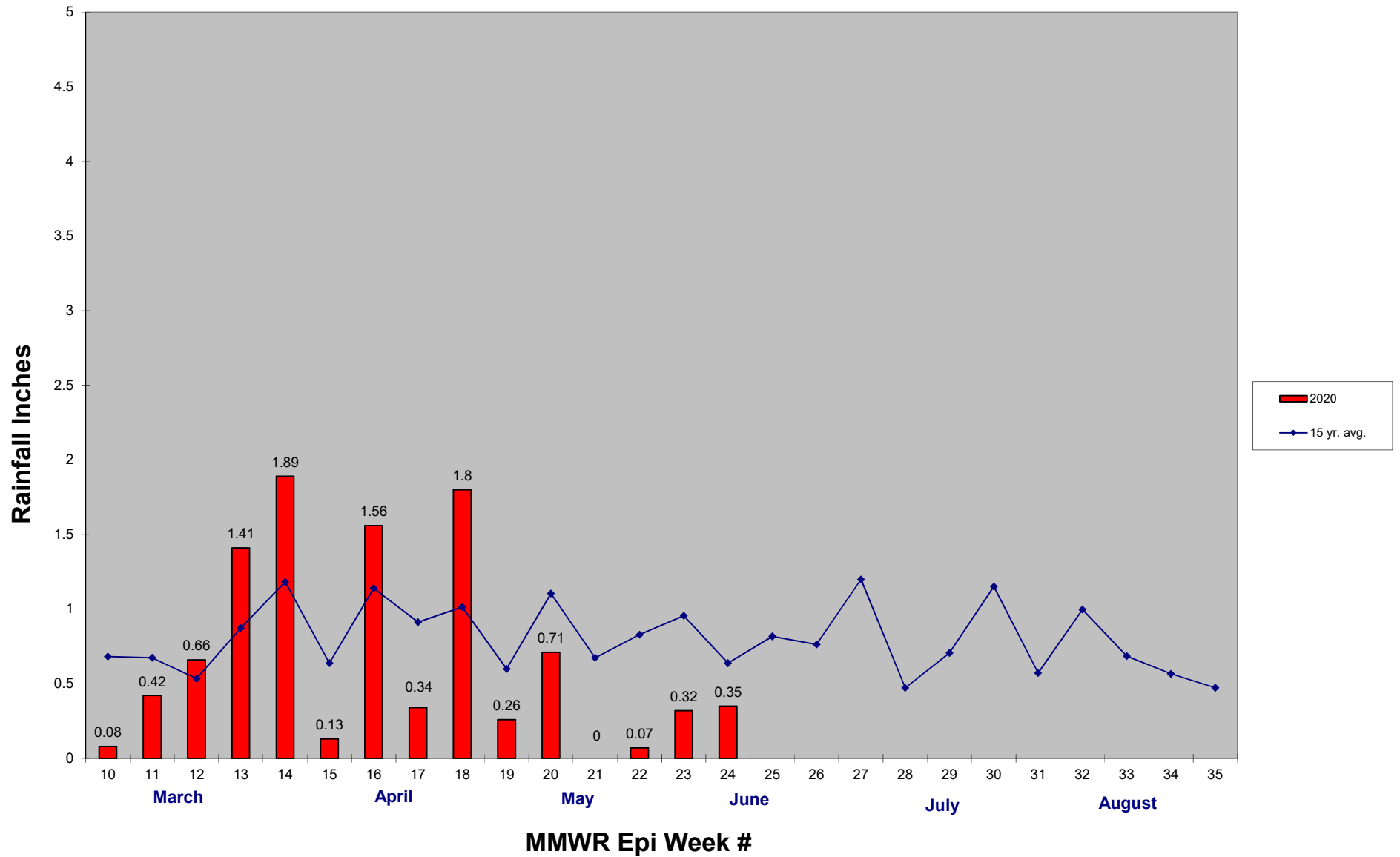
all member communities for *Culex* control. 4,770 catch basins were treated in Epi week 24, bringing the total for the year to 17,879 basins. Water sampling in areas of enhanced larval control for *Cs. melanura* that was done in May have been underway for 3 weeks; drying conditions may force the end of sampling a bit prematurely. Results are pending from the analysis laboratories.

2020 Mass. Rainfall Data vs. 40 Year Average*



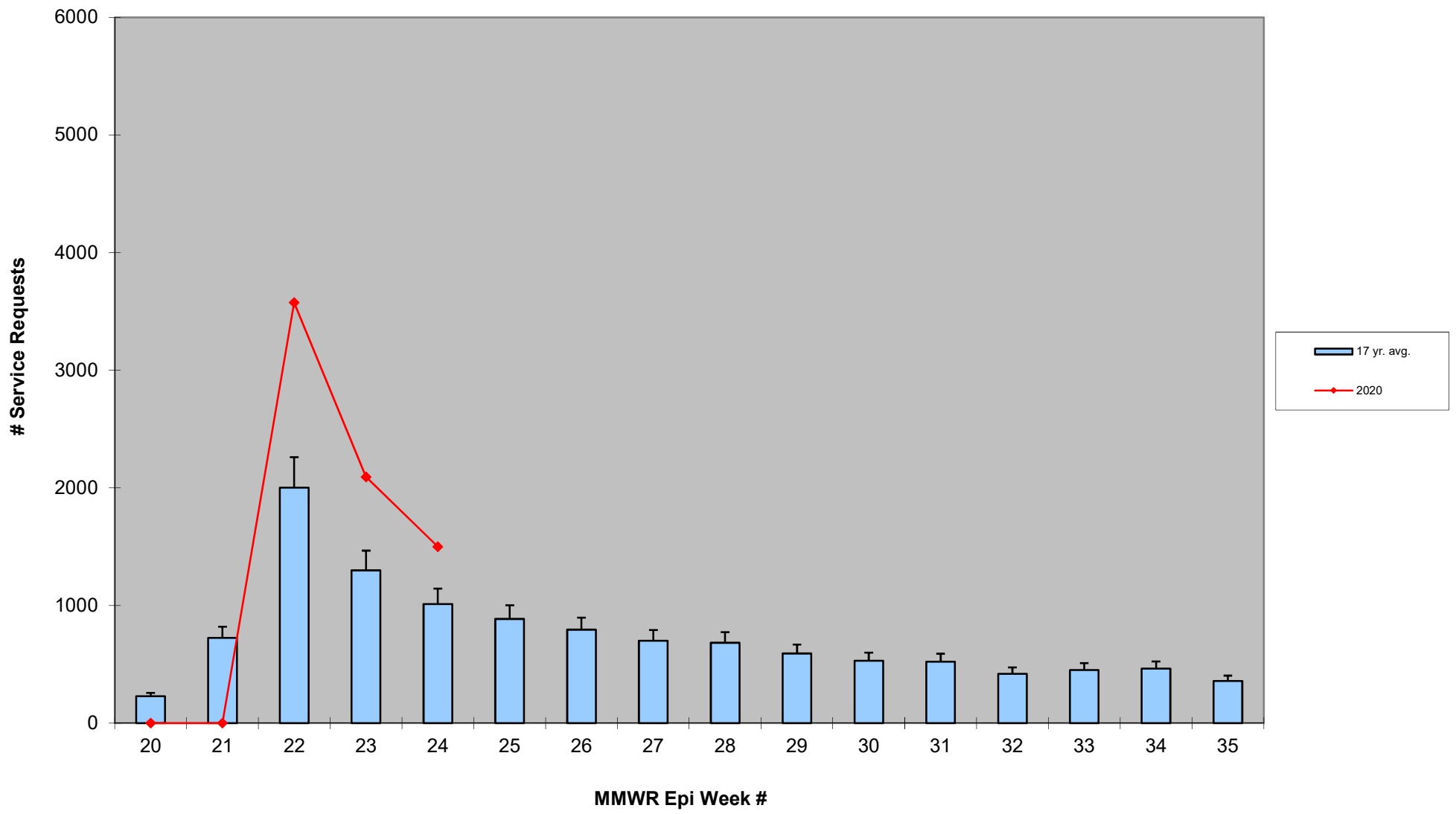
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2020 CMMCP Weekly Rainfall vs. 15 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2020



2020 Rainfall vs. Requests

