

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #35
Aug. 23-29, 2020

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Central Mass. Mosquito Control Project
Weekly Report- 8/23/20-8/29/20
EPI Week #35

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	181	721	98	196	547	3530
Total Specimens	1938	32493	313	2823	4093	48407
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 69.79°F with a recorded high temperature of 94.90°F and a recorded low temperature of only 56.40°F. There was 1.08 inches of rain observed this week. Compared to the previous week, it was approximately 0.30°F cooler on average, and rained about 0.95 inches more. There has been 3.00 inches of rain accumulated in August, after 1.06 inches for the month of July.

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>	-17.46%	+54.89%	Devens, Stow, Westford
<i>Coquillettidia perturbans</i>	+15.69%	-80.47%	Stow, Lunenburg, Hudson
<i>Culiseta melanura</i>	-88.89%	-85.30%	Holliston
<i>Ochlerotatus canadensis</i>	-33.33%	-47.83%	Tewksbury
<i>Culex</i> Species	-32.24%	-72.78%	Leominster, Marlborough
All Species	-23.00%	-76.49%	Devens, Marlborough, Stow

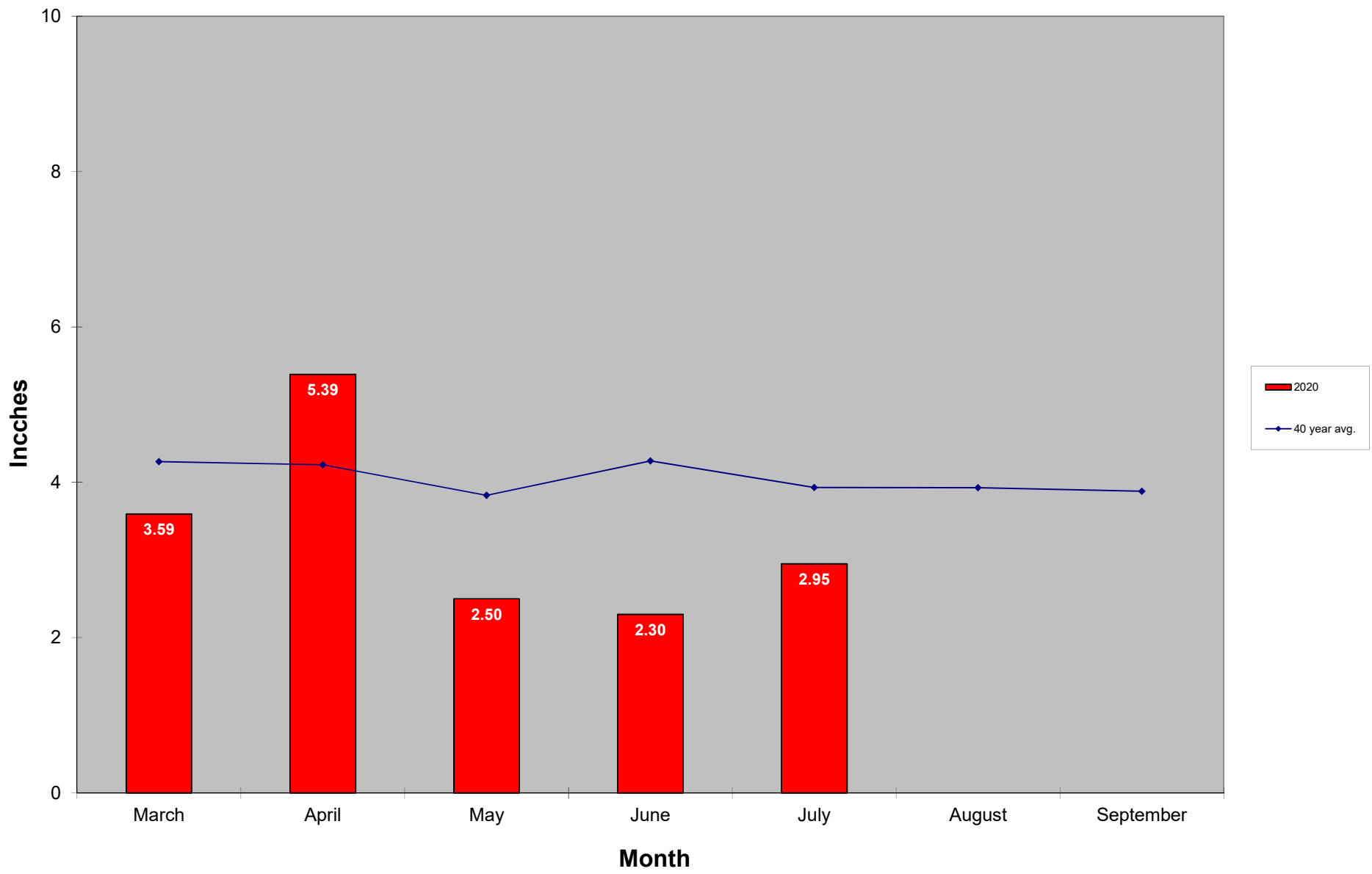
The predominant mosquito for the week was *Culex* spp.,
followed by *Coquillettidia perturbans*.

General narrative: The average temperature for EPI week 35 was approximately 0.30°F cooler than the previous week, with 1.08 inches of precipitation observed. This week decreased emergence was observed for all target mosquitoes except for *Coquillettidia perturbans*. The most abundant mosquito this week was once again *Culex* spp., followed by *Coquillettidia perturbans*. Compared to the 2019 season, overall mosquito surveillance numbers are down this year. All target species are lower this season, except for *Aedes vexans*. Every submitted mosquito pool from EPI week 34 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps continued, with 691 eggs collected and submitted for identification this week.

Service requests are 56.7% greater than the 17-year average and an 17.7% decrease over 2019 numbers. Services requests decreased 29.9% over Epi week 34 numbers. Work crews are performing catch basins treatments in all member communities for *Culex*

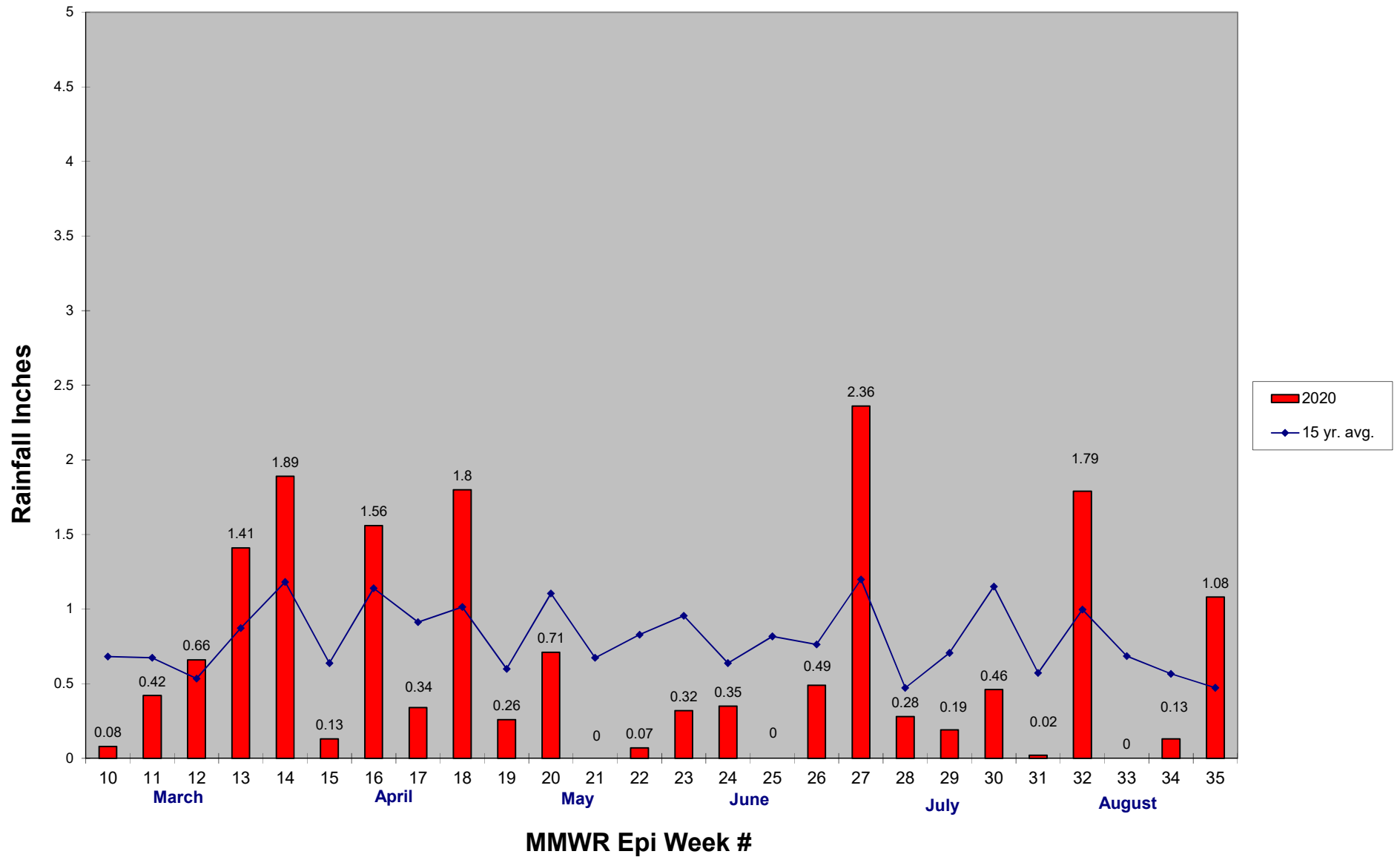
control. 6,885 catch basins were treated in Epi week 35, bringing the total for the year to 84,013 basins. Final results are still pending from the analysis laboratories but initial results do not look positive for control in most *Cs. melanura* crypt habitat. Data is still being collected and analyzed from emergence traps in *Cq. perturbans* habitat.

2020 Mass. Rainfall Data vs. 40 Year Average*



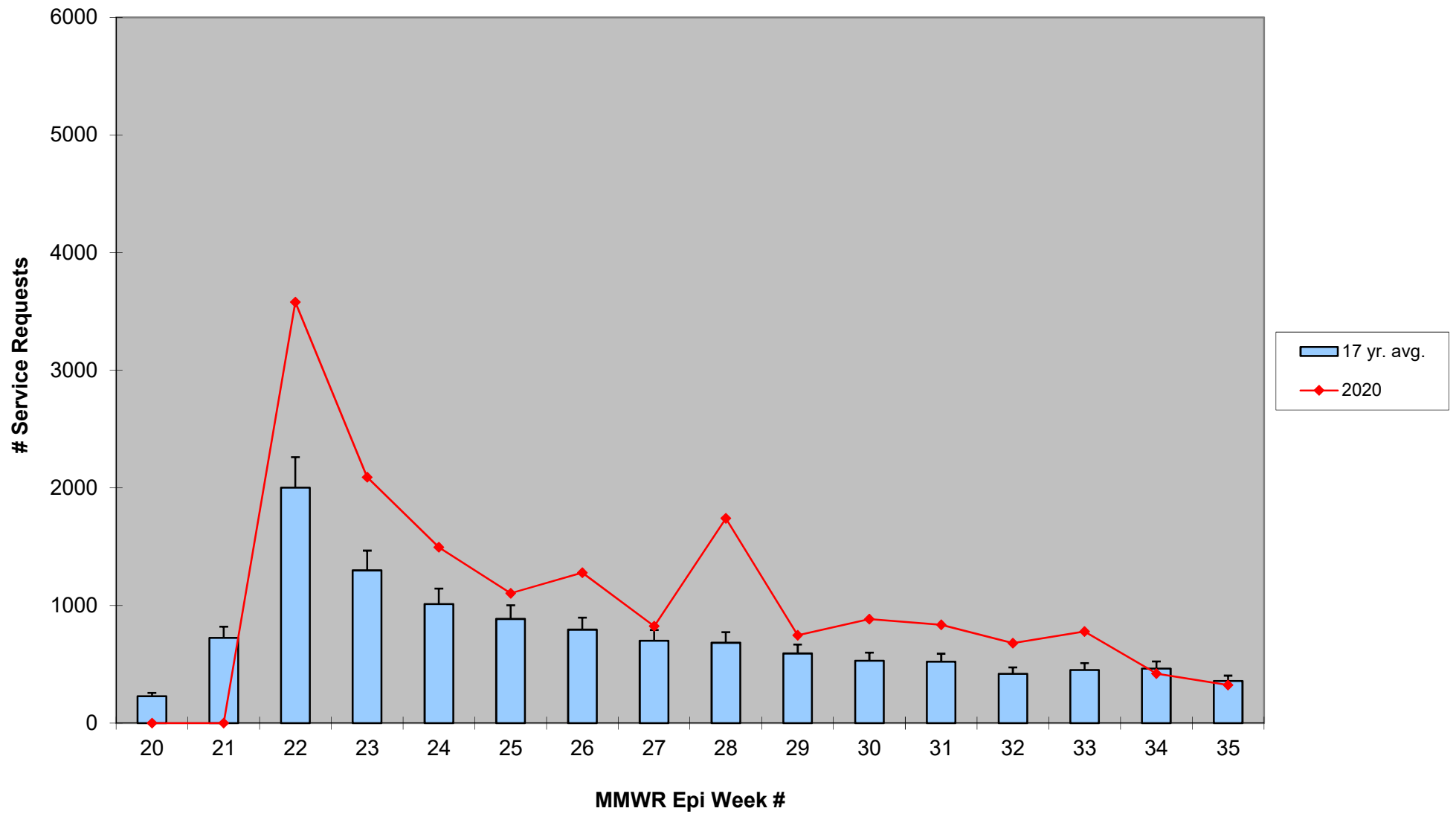
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

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

