

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #36
Aug. 30 – Sept. 5, 2020

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Central Mass. Mosquito Control Project
Weekly Report- 8/30/20-9/5/20
EPI Week #36

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	185	736	100	197	583	3682
Total Specimens	1955	32561	315	28224	4235	48778
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 66.36°F with a recorded high temperature of 84.00°F and a recorded low temperature of only 48.50°F. There was 0.24 inches of rain observed this week. Compared to the previous week, it was approximately 3.43°F cooler on average, and rained about 0.84 inches less. There has been 0.24 inches of rain accumulated in September, after 3.00 inches for the month of August.

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>	-67.31%	+46.03%	Devens
<i>Coquilleltidia perturbans</i>	-61.58%	-80.51%	Sturbridge, Hudson
<i>Culiseta melanura</i>	+100.0%	-85.70%	Boxborough, Stow
<i>Ochlerotatus canadensis</i>	-50.00%	-48.14%	Ayer
<i>Culex</i> Species	-45.16%	-72.49%	Leominster, Gardner
All Species	-50.21%	-76.52%	Sturbridge, Littleton

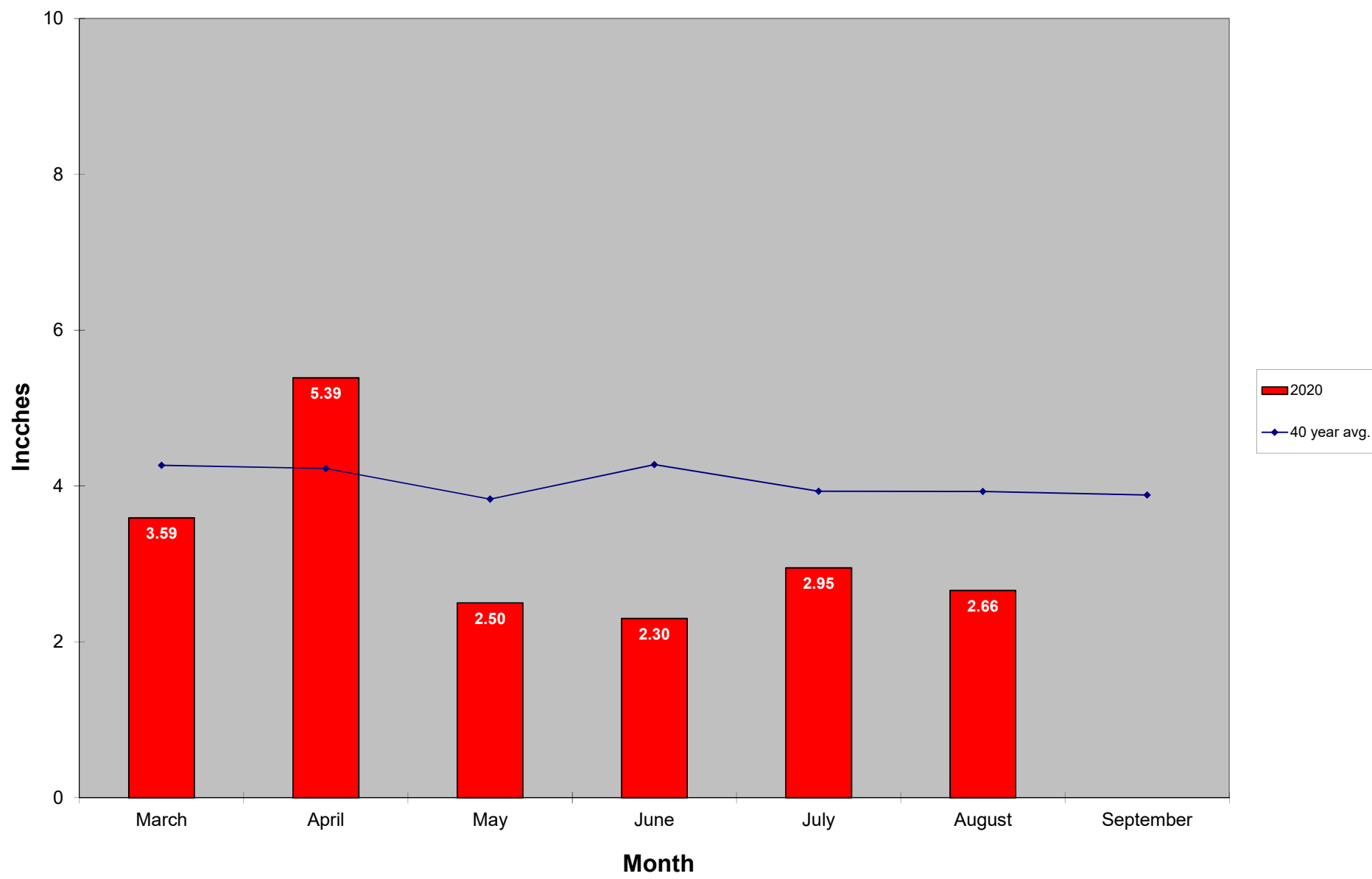
The predominant mosquito for the week was *Culex* spp.,
followed by *Coquilleltidia perturbans*.

General narrative: The average temperature for EPI week 36 was approximately 3.43°F cooler than the previous week, with 0.24 inches of precipitation observed. This week decreased emergence was observed for all target mosquitoes except for *Culiseta melanura*. The most abundant mosquito this week was once again *Culex* spp., followed by *Coquilleltidia 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 35 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps continued, with 713 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. Work crews completed performing catch basins treatments in all member communities for *Culex* control. 3,577 catch basins were treated in Epi week 36,

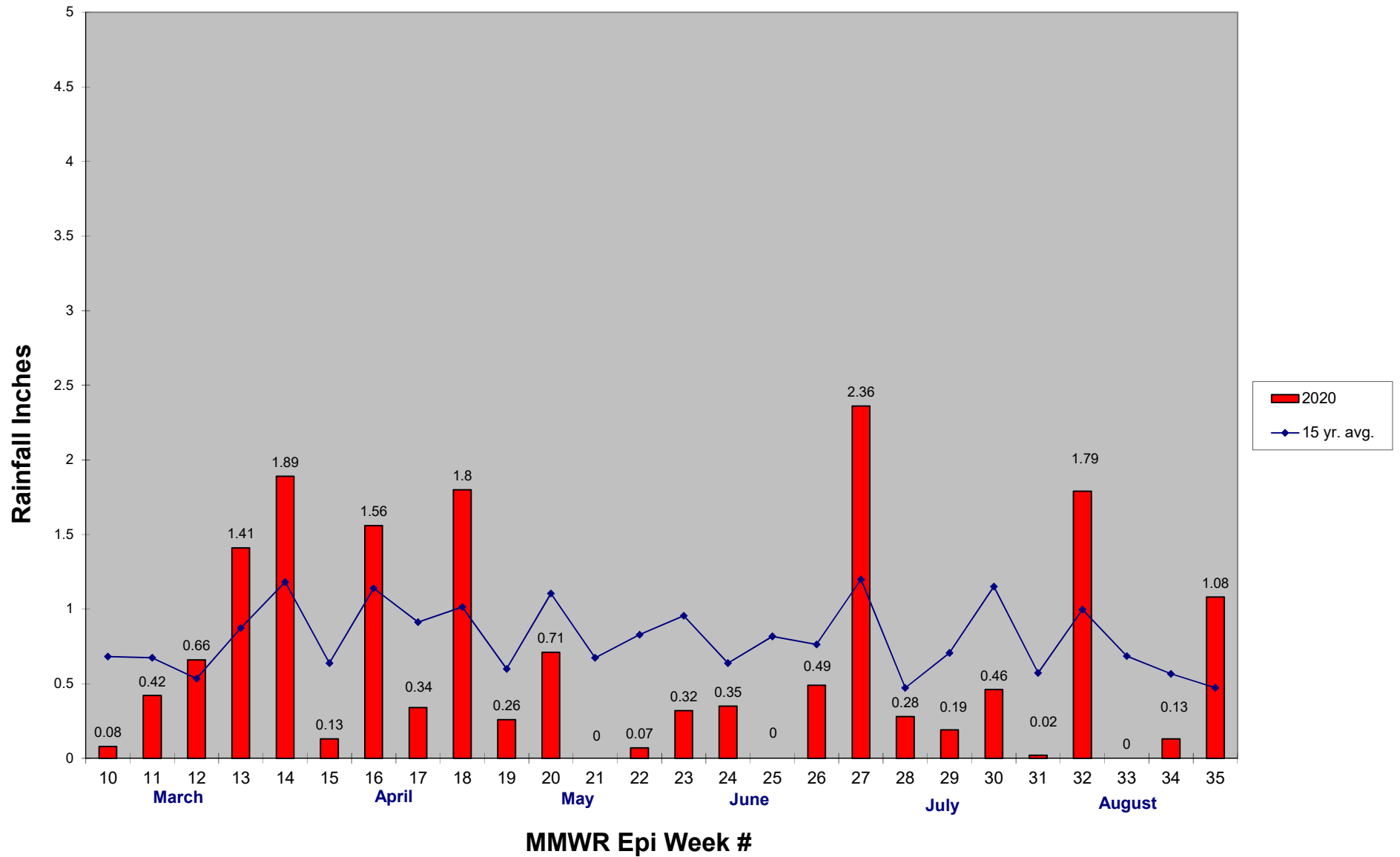
bringing the final total for the year to 87,590 basins. Final results are still pending from the analysis laboratories but initial results do not look positive for control in most *Cs. melanura* crypt habitat. Data is still being collected and analyzed from emergence traps in *Cq. perturbans* habitat.

2020 Mass. Rainfall Data vs. 40 Year Average*



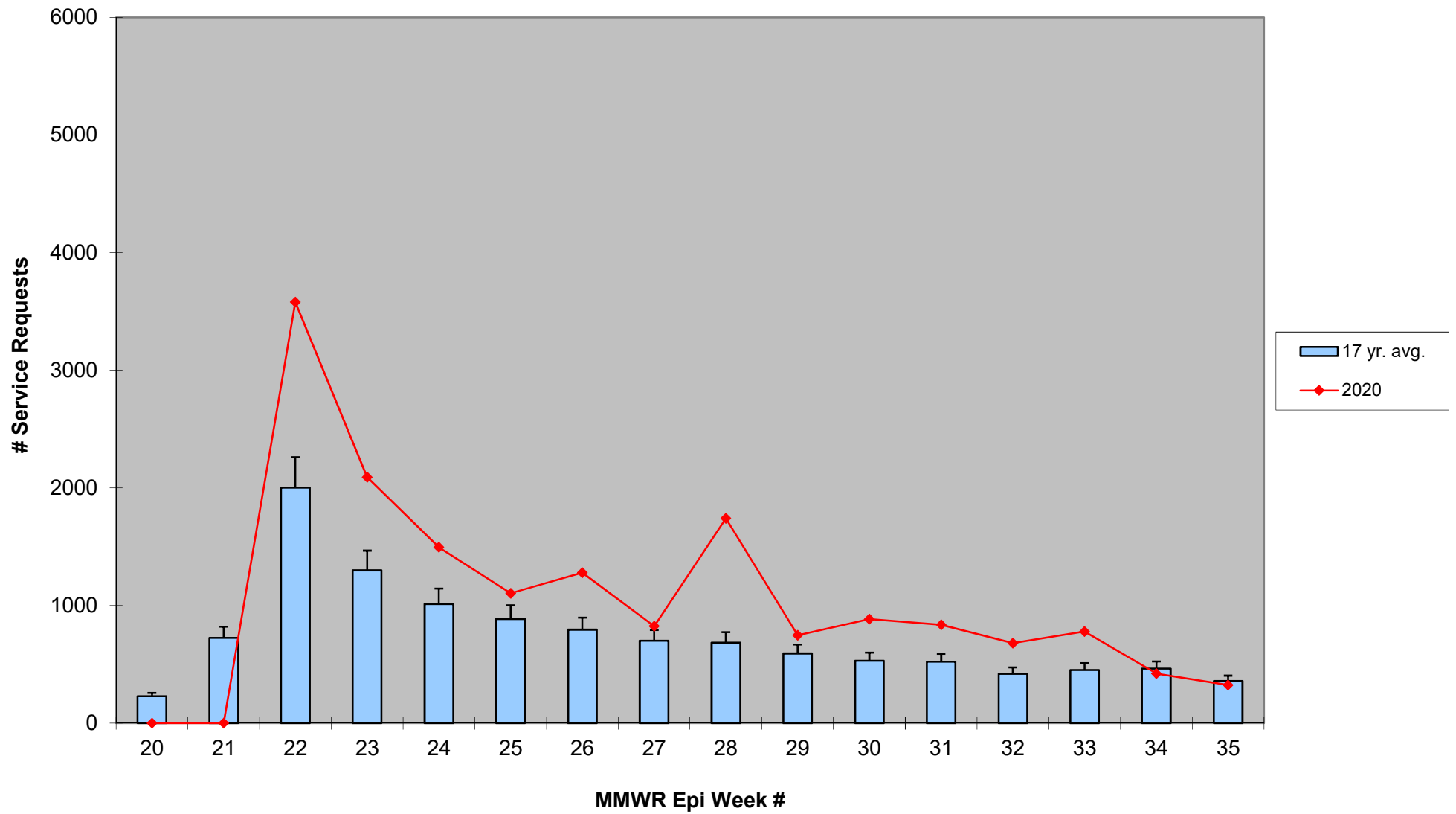
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

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

