

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #29
July 12-18, 2020

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Central Mass. Mosquito Control Project
Weekly Report- 7/12/20-7/18/20
EPI Week #29

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	69	346	68	160	224	1827
Total Specimens	613	17312	274	2751	1873	26075
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 72.86°F with a recorded high temperature of 94.60°F and a recorded low temperature of only 57.40°F. For this week there was also a total of 0.19 inches of rain observed. Compared to the previous week, it was approximately 3.18°F cooler on average, and rained about 0.09 inches less. There has been 0.58 inches of rain accumulated in July, after 3.41 inches for the month of June.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+344.2%	+99.20%	Blackstone, Westborough
<i>Coquilleltidia perturbans</i>	+10.03%	-78.19%	Sherborn, Tewksbury
<i>Culiseta melanura</i>	-79.17%	-61.79%	Westborough
<i>Ochlerotatus canadensis</i>	+21.15%	-44.90%	Hopedale, Sturbridge
<i>Culex</i> Species	+179.5%	-62.92%	Leominster, Dracut
All Species	+18.33%	-73.87%	Sherborn, Tewksbury

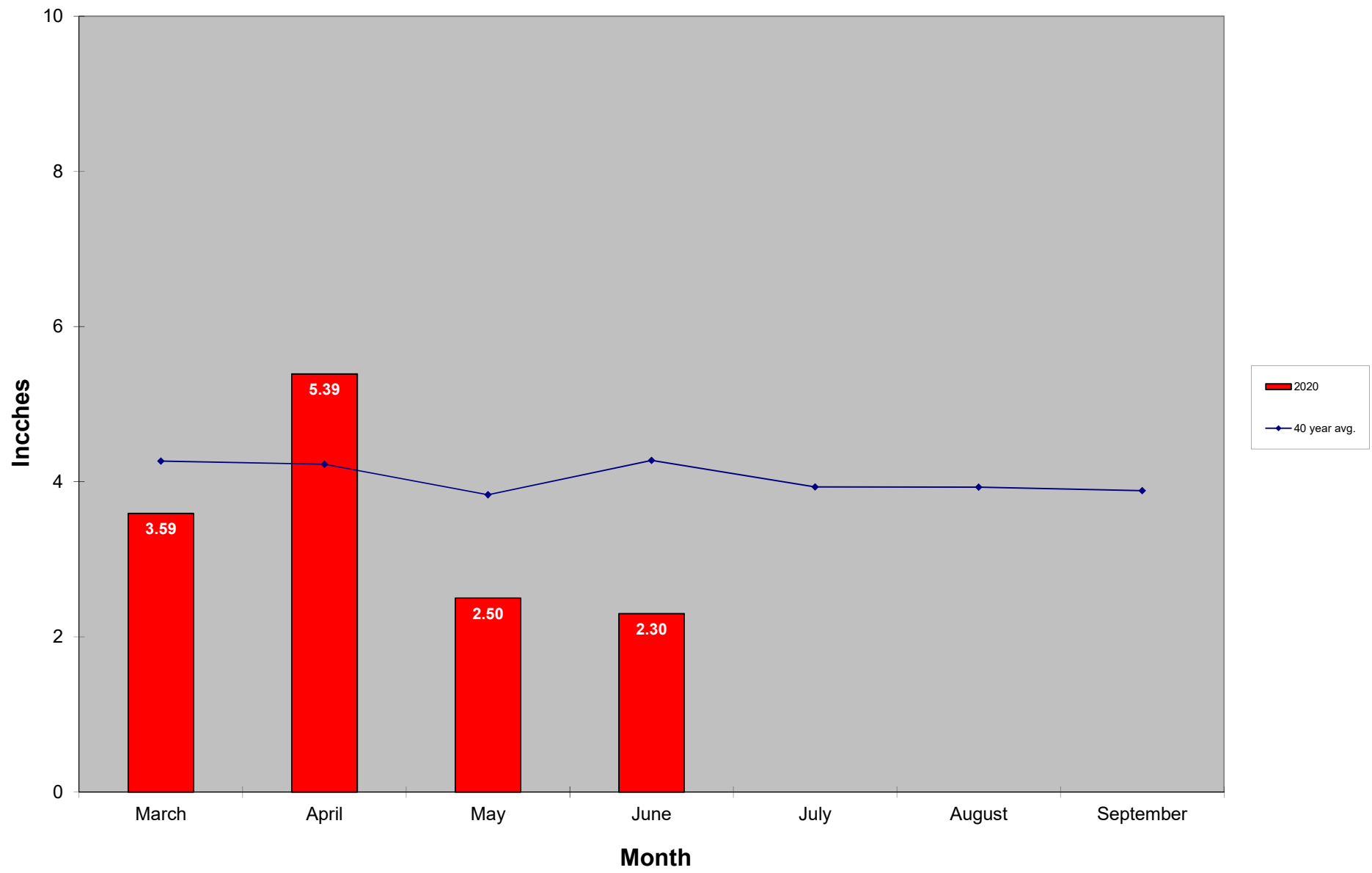
The predominant mosquito for the week was *Coquilleltidia perturbans*, followed by *Culex* spp.

General narrative: The average temperature for EPI week 29 was approximately 3.18°F cooler than the previous week, with 0.19 inches of precipitation observed. This week increased emergence was observed for all target mosquitoes except *Culiseta melanura*. Once again *Coquilleltidia perturbans* was the most abundant mosquito species for the week, followed by *Culex* spp. Additional emergence of *Coquilleltidia perturbans* should contribute to higher overall collections. 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 28 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps has begun.

Service requests are 61.4% greater than the 17-year average and on par with Epi week 29 numbers from 2019. Services requests decreased 235% from Epi week 28. Work crews are performing catch basins treatments in all member communities for *Culex*

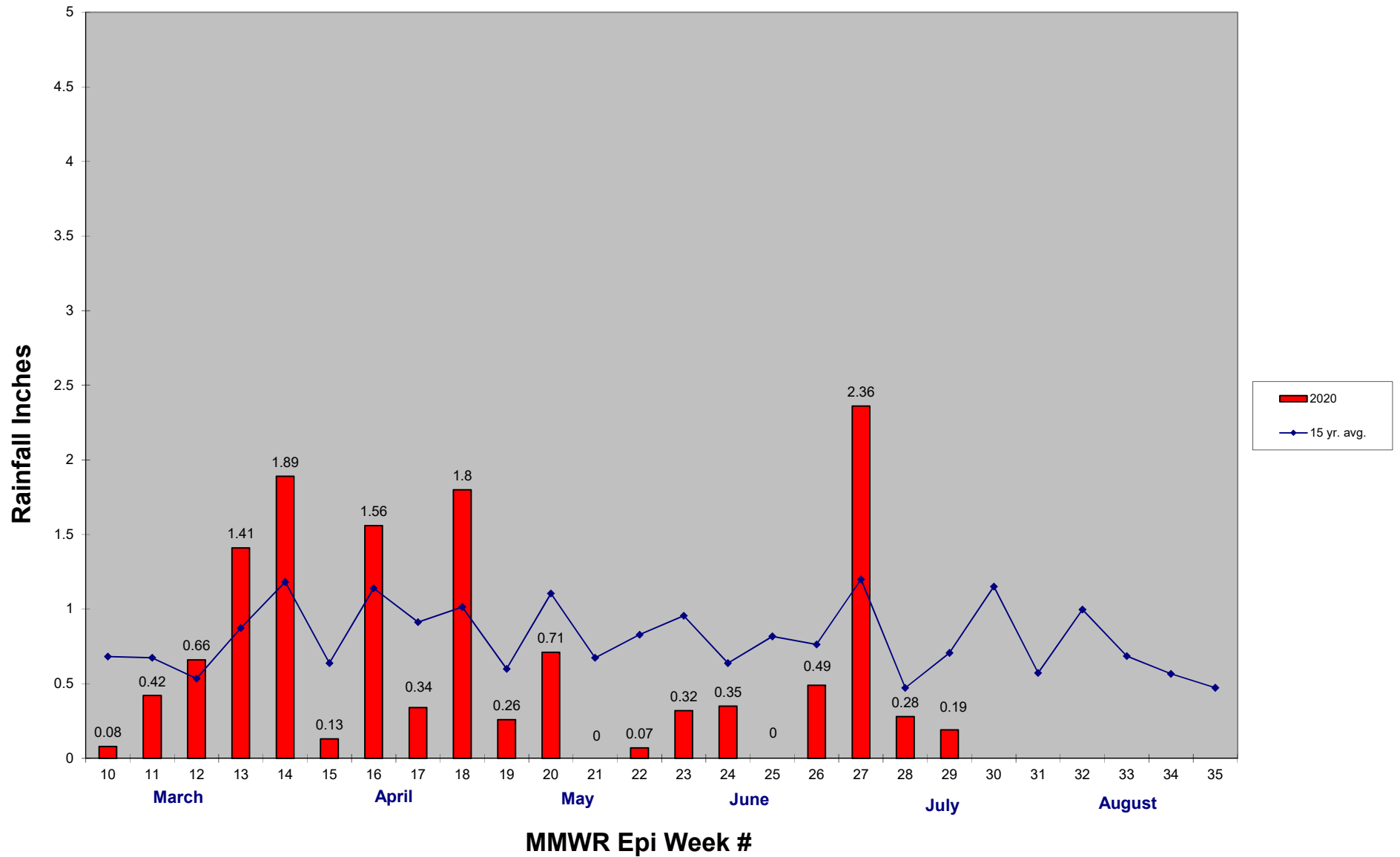
control. 7,093 catch basins were treated in Epi week 29, bringing the total for the year to 50,108 basins. Final results are still pending from the analysis laboratories but initial results do not look positive for control in most *Cs. melanura* crypt habitat. Data is still being collected and analyzed from emergence traps in *Cq. perturbans* habitat.

2020 Mass. Rainfall Data vs. 40 Year Average*



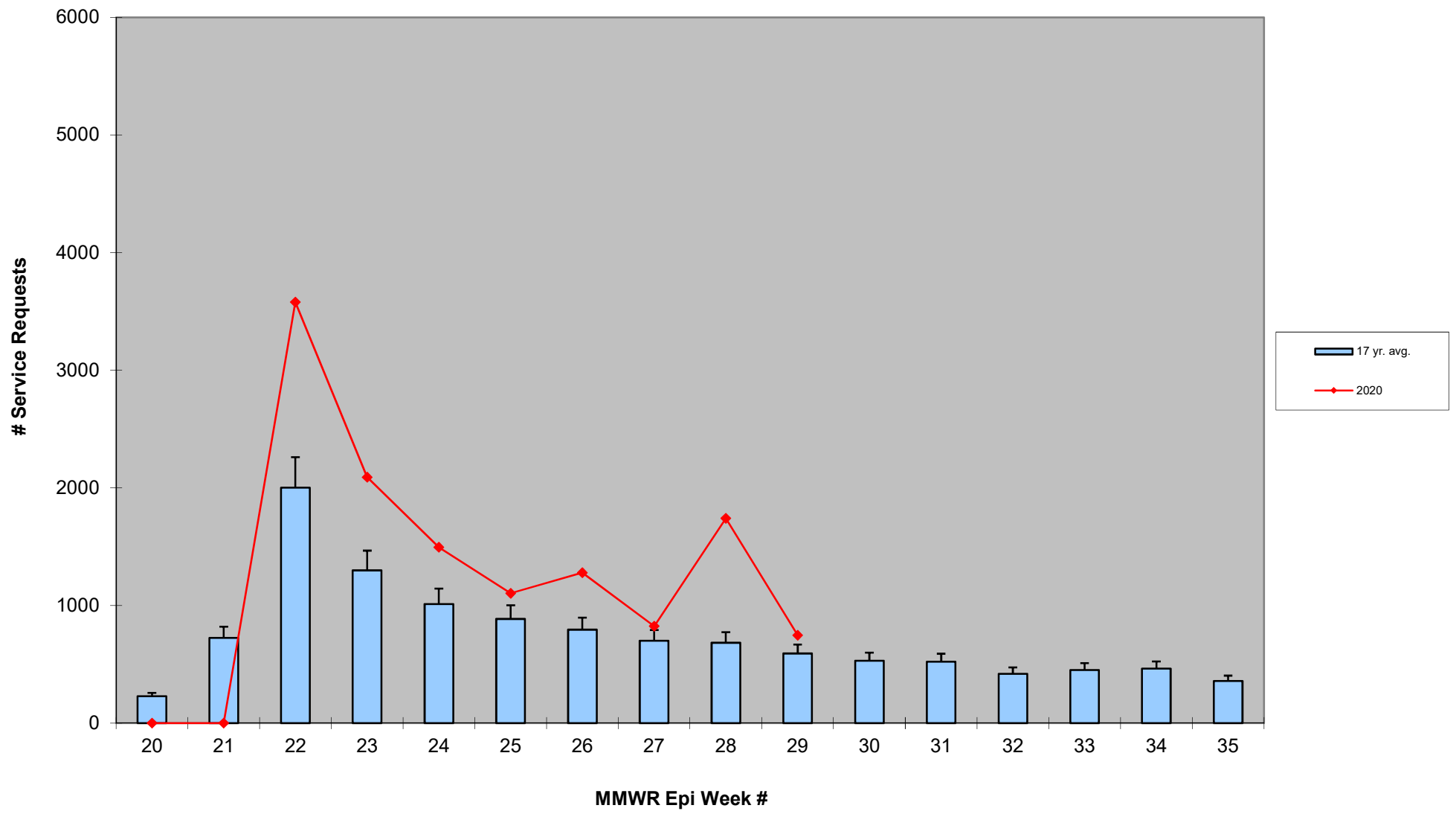
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

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

