

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #28
July 5-11, 2020

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Central Mass. Mosquito Control Project
Weekly Report- 7/5/20-7/11/20
EPI Week #28

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	50	257	66	140	169	1511
Total Specimens	422	10586	269	2625	1395	18038
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 76.04°F with a recorded high temperature of 97.80°F and a recorded low temperature of only 62.70°F. For this week there was also a total of 0.28 inches of rain observed. Compared to the previous week, it was approximately 5.80°F warmer on average, and rained about 2.08 inches less. There has been 0.39 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)
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<i>Aedes vexans</i>	+3400%	+33.48%	Hopedale, Tewksbury
<i>Coquilleltidia perturbans</i>	+763.5%	-79.24%	Westborough, Hopkinton
<i>Culiseta melanura</i>	+185.7%	-56.85%	Westborough, Westford
<i>Ochlerotatus canadensis</i>	+54.76%	-45.00%	Hopedale, Hopkinton
<i>Culex</i> Species	-55.21%	-60.61%	Leominster, Westford
All Species	+413.0%	-73.80%	Westborough, Hopkinton

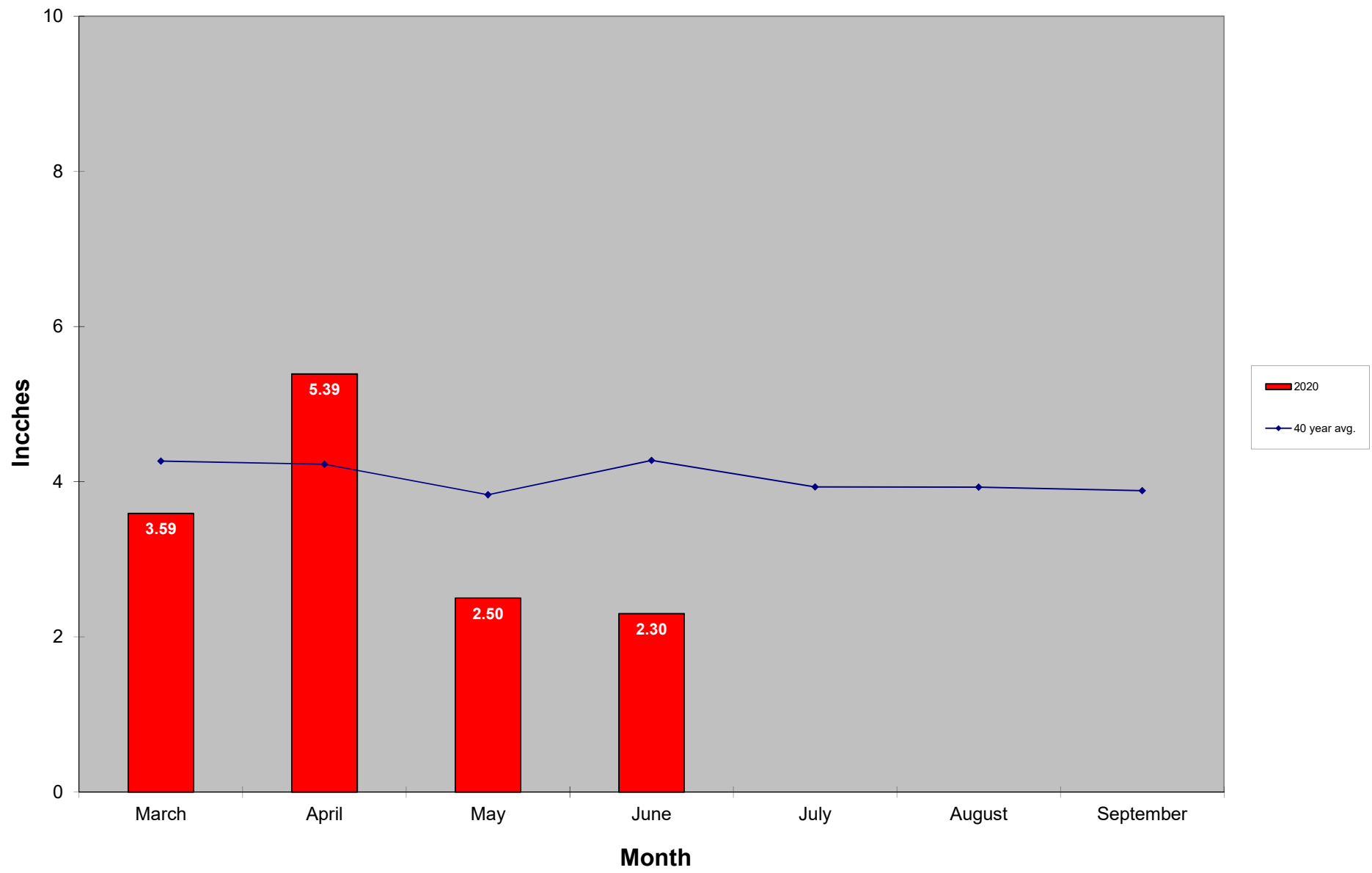
The predominant mosquito for the week was *Coquilleltidia perturbans*,
followed by *Culex* spp.

General narrative: The average temperatures for EPI week 28 were approximately 5.80°F cooler than the previous week, with 0.39 inches of precipitation observed. This week increased emergence was observed for all target mosquitoes except *Culex* spp. Once again *Coquilleltidia perturbans* was the most abundant mosquito species for the week, followed by *Culex* spp. 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 27 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps will begin in EPI week 29.

Service requests are 64.2% greater than the 17-year average and 82.8% greater than Epi week 28 numbers from 2019. Services requests increased 209% from Epi week 27. Work crews are performing catch basins treatments in all member communities for *Culex*

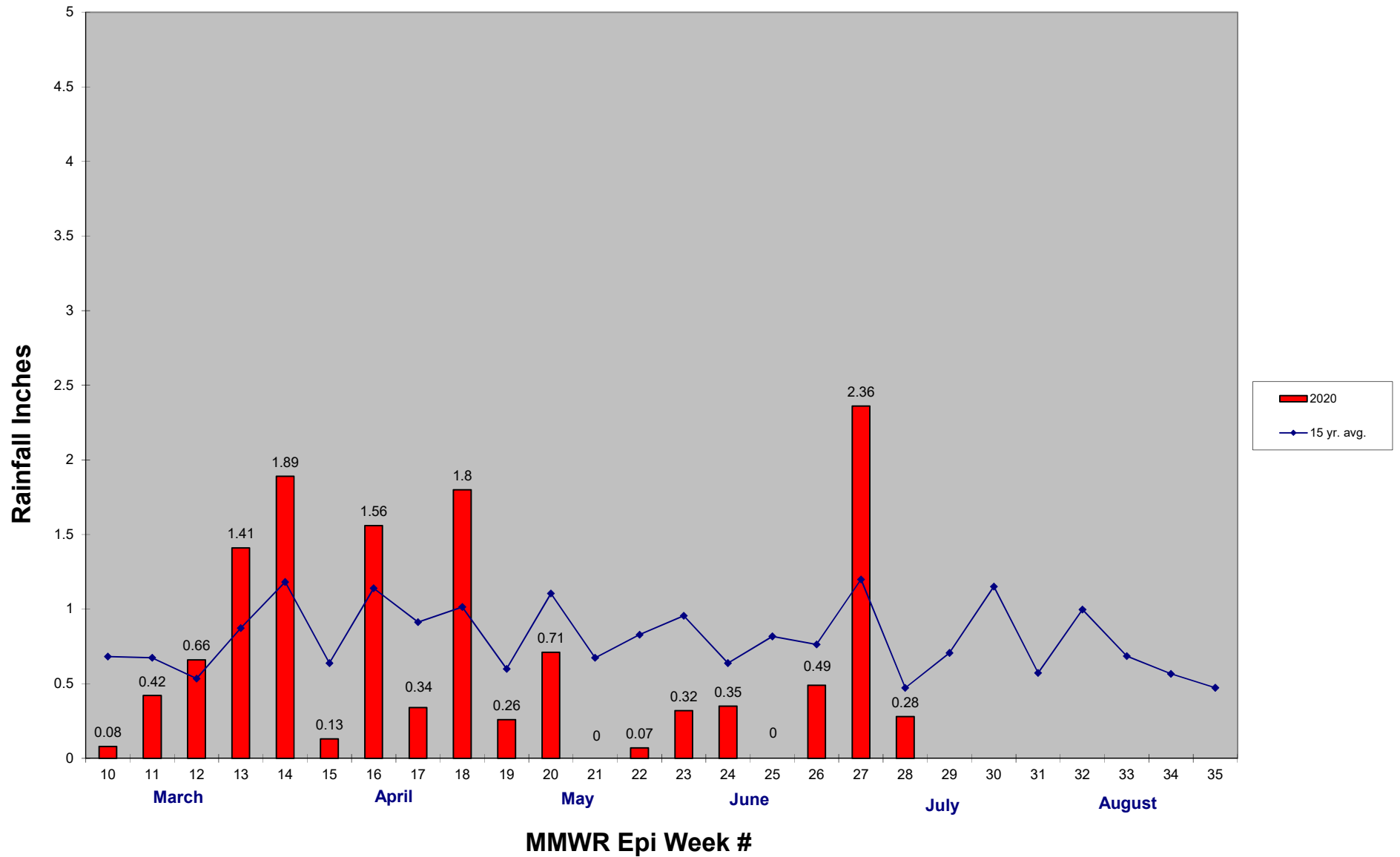
control. 5,230 catch basins were treated in Epi week 28, bringing the total for the year to 42,913 basins. Final results are still pending from the analysis laboratories but initial results do not look positive for control in most *Cs. melanura* crypt habitat. Data is still being collected and analyzed from emergence traps in *Cq. perturbans* habitat.

2020 Mass. Rainfall Data vs. 40 Year Average*



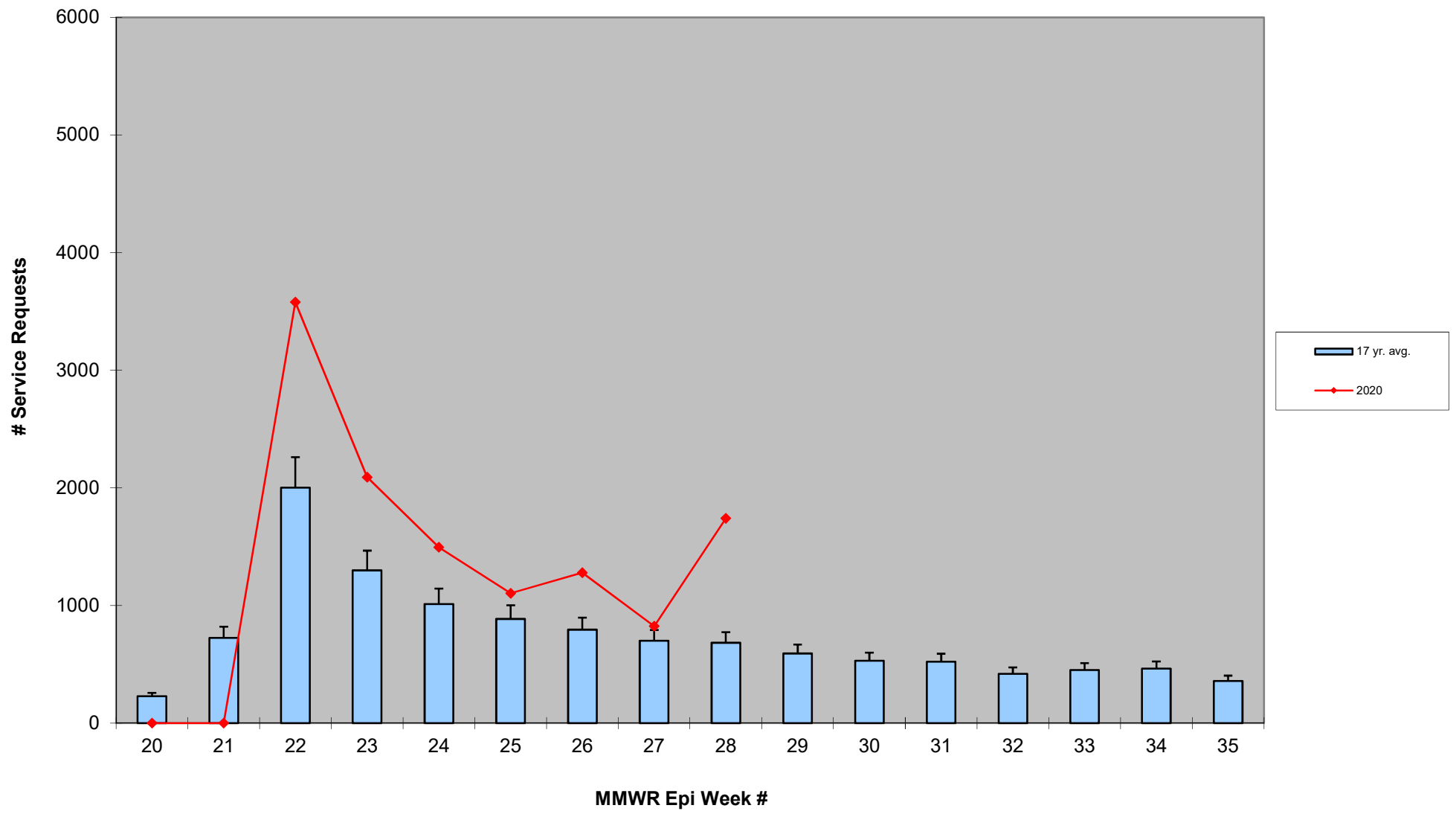
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

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

