

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #30**  
**July 19-25, 2020**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 7/19/20-7/25/20**  
**EPI Week #30**

**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	92	435	72	176	275	2147
Total Specimens	757	23125	281	2779	2323	33111
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 78.43°F with a recorded high temperature of 99.30°F and a recorded low temperature of only 63.40°F. For this week there was also a total of 0.46 inches of rain observed. Compared to the previous week, it was approximately 5.57°F warmer on average, and rained about 0.27 inches more. There has been 1.04 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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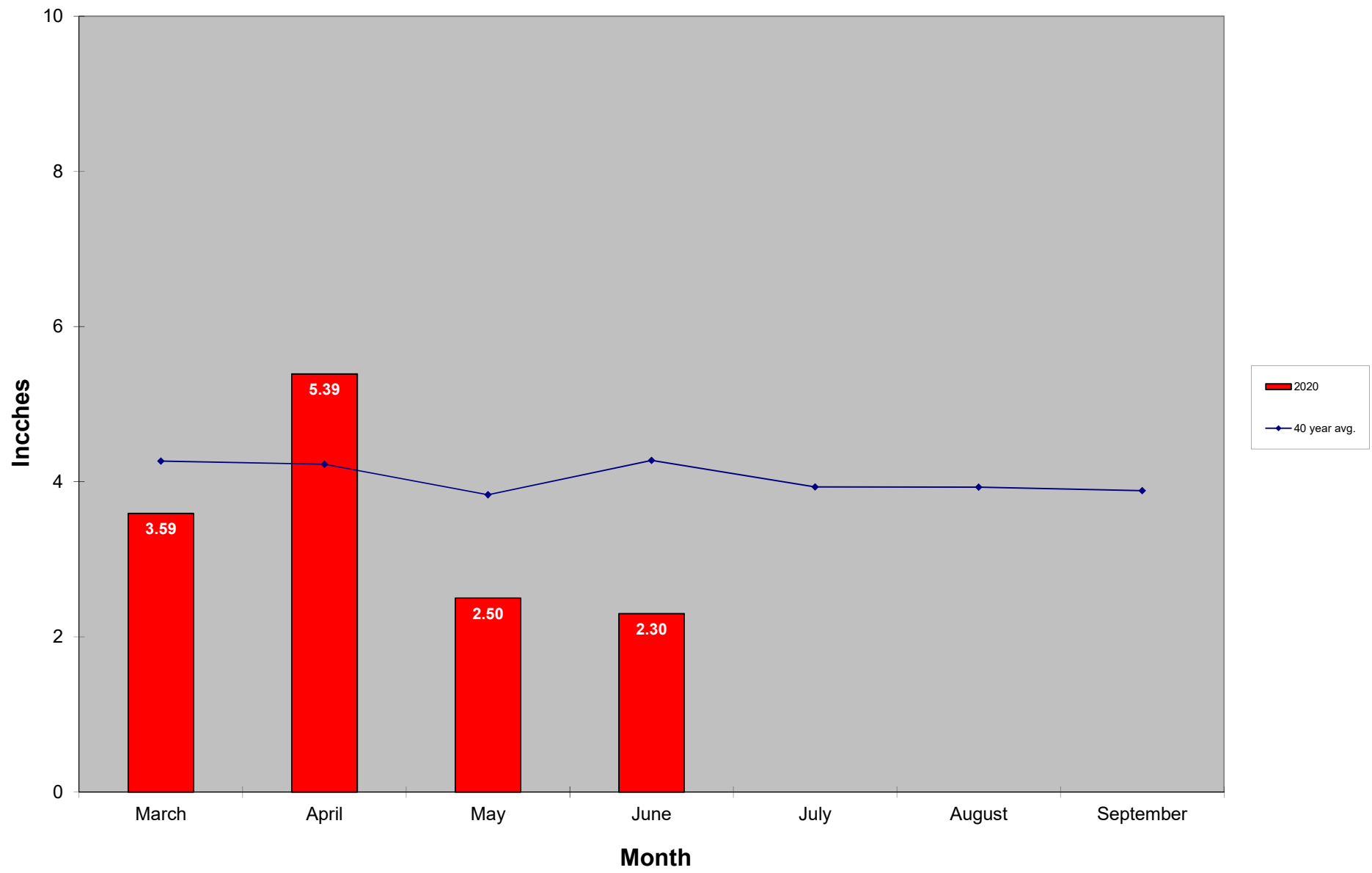
<i>Aedes vexans</i>	-24.61%	+122.9%	Hudson, Chelmsford, Blackstone
<i>Coquilleltidia perturbans</i>	-13.57%	-75.95%	Sturbridge, Hopkinton, Natick
<i>Culiseta melanura</i>	+40.00%	-66.53%	Northbridge
<i>Ochlerotatus canadensis</i>	-77.78%	-45.45%	Northbridge, Grafton
<i>Culex</i> Species	-6.07%	-65.16%	Dracut, Worcester
All Species	-12.53%	-72.16%	Sturbridge, Hopkinton

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

**General narrative:** The average temperature for EPI week 30 was approximately 5.57°F warmer than the previous week, with 0.46 inches of precipitation observed. This week decreased emergence was observed for all target mosquitoes except *Culiseta melanura*. The observed decrease in *Coquilleltidia perturbans* may signal that this species has peaked in the CMMCP service area. Despite the weekly decrease, *Coquilleltidia perturbans* was once again 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 29 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps has begun, with 418 eggs collected and submitted for identification this week.

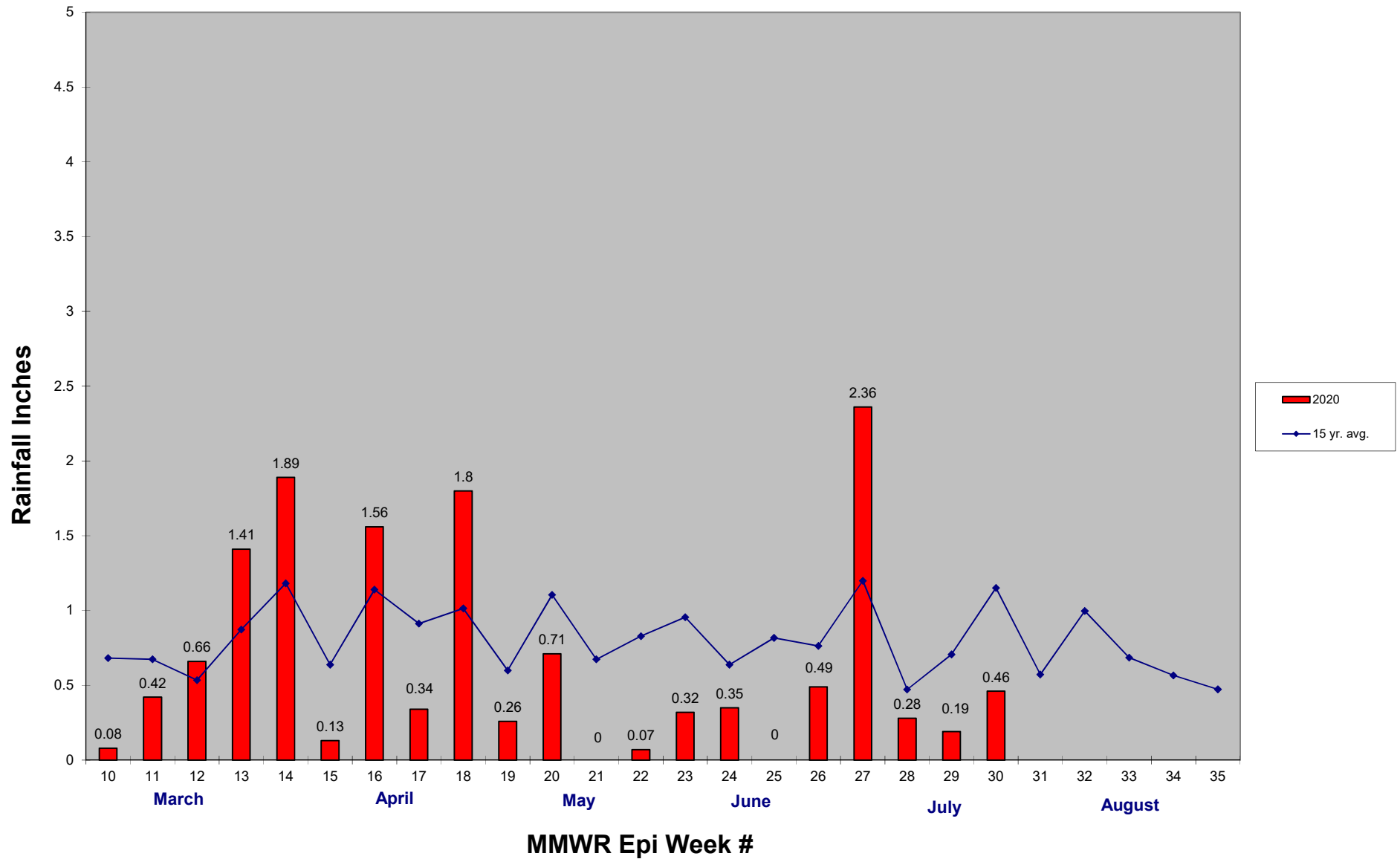
Service requests are 61.7% greater than the 17-year average and a 25.4% increase over Epi week 30 numbers from 2019. Services requests increased 18.2% from Epi week 29. Work crews are performing catch basins treatments in all member communities for *Culex* control. 5,340 catch basins were treated in Epi week 30, bringing the total for the year to 55,448 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\***



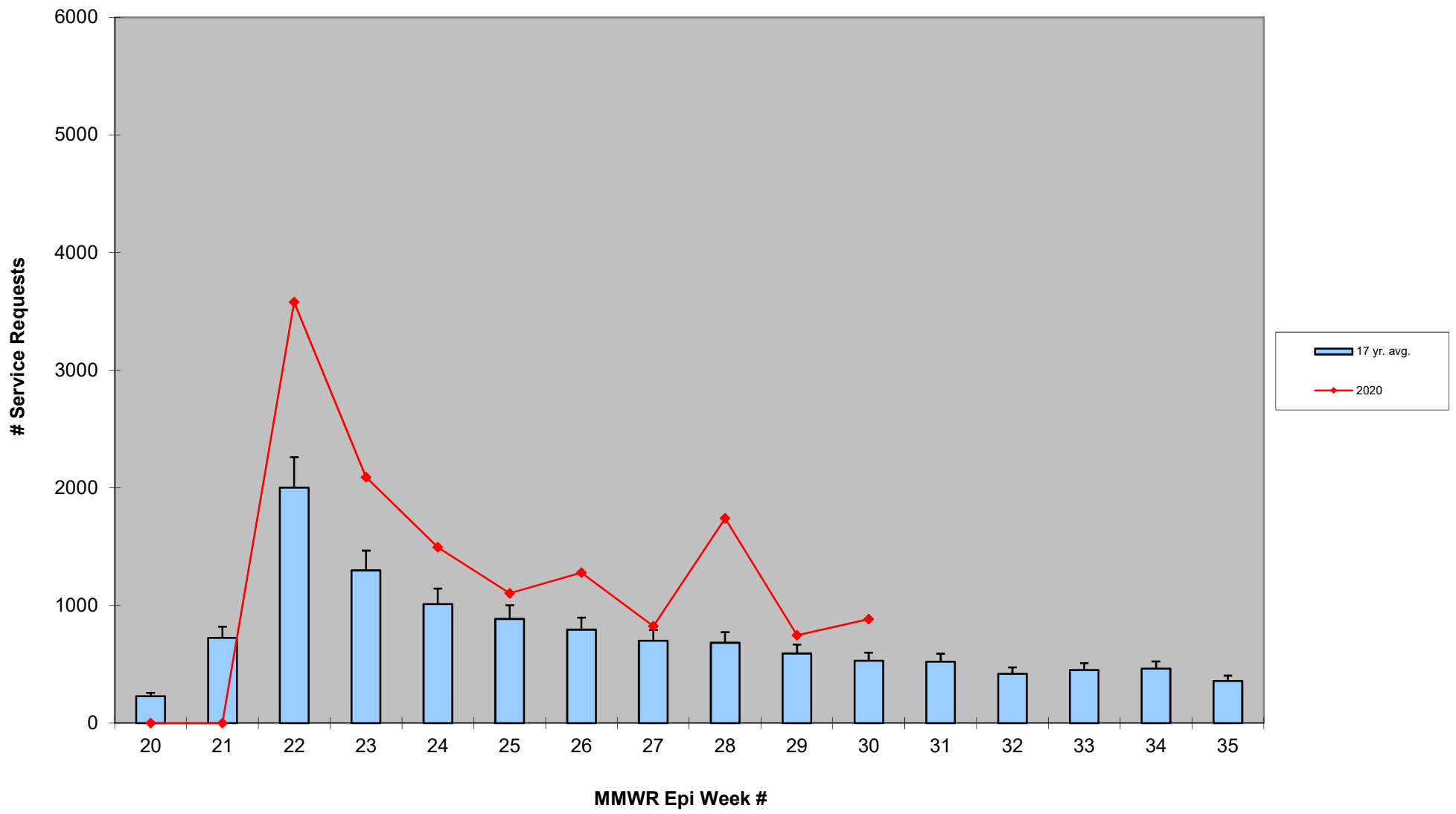
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

