

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #38**  
**Sept. 13-19, 2020**

*Frank Cornine, Staff Biologist*  
*Curtis Best, Staff Entomologist*  
*David Mullins, Field Biologist*  
*Tim McGlinchy, Director of Operations*  
*Tim Deschamps, Executive Director*

**Central Mass. Mosquito Control Project**  
**Weekly Report- 9/13/20-9/19/20**  
**EPI Week #38**

**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	223	748	111	198	638	3984
Total Specimens	2221	32582	332	2825	4445	49475
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 59.36°F with a recorded high temperature of 77.90°F and a recorded low temperature of only 41.50°F. There was 0.01 inches of rain observed this week. Compared to the previous week, it was approximately 8.57°F cooler on average, and rained about 0.51 inches less. There has been 0.77 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)
----------------	---------------------	---------------------	--------------------------

<i>Aedes vexans</i>	-1.520%	+51.22%	Westborough, Millbury
<i>Coquilleltidia perturbans</i>	-76.47%	-80.54%	Stow, Shrewsbury, Billerica
<i>Culiseta melanura</i>	+12.50%	-85.56%	Millbury
<i>Ochlerotatus canadensis</i>	-100.0%	-48.31%	N/A
<i>Culex</i> Species	-78.92%	-72.18%	Clinton, Worcester
All Species	-29.79%	-76.42%	Westborough, Millbury

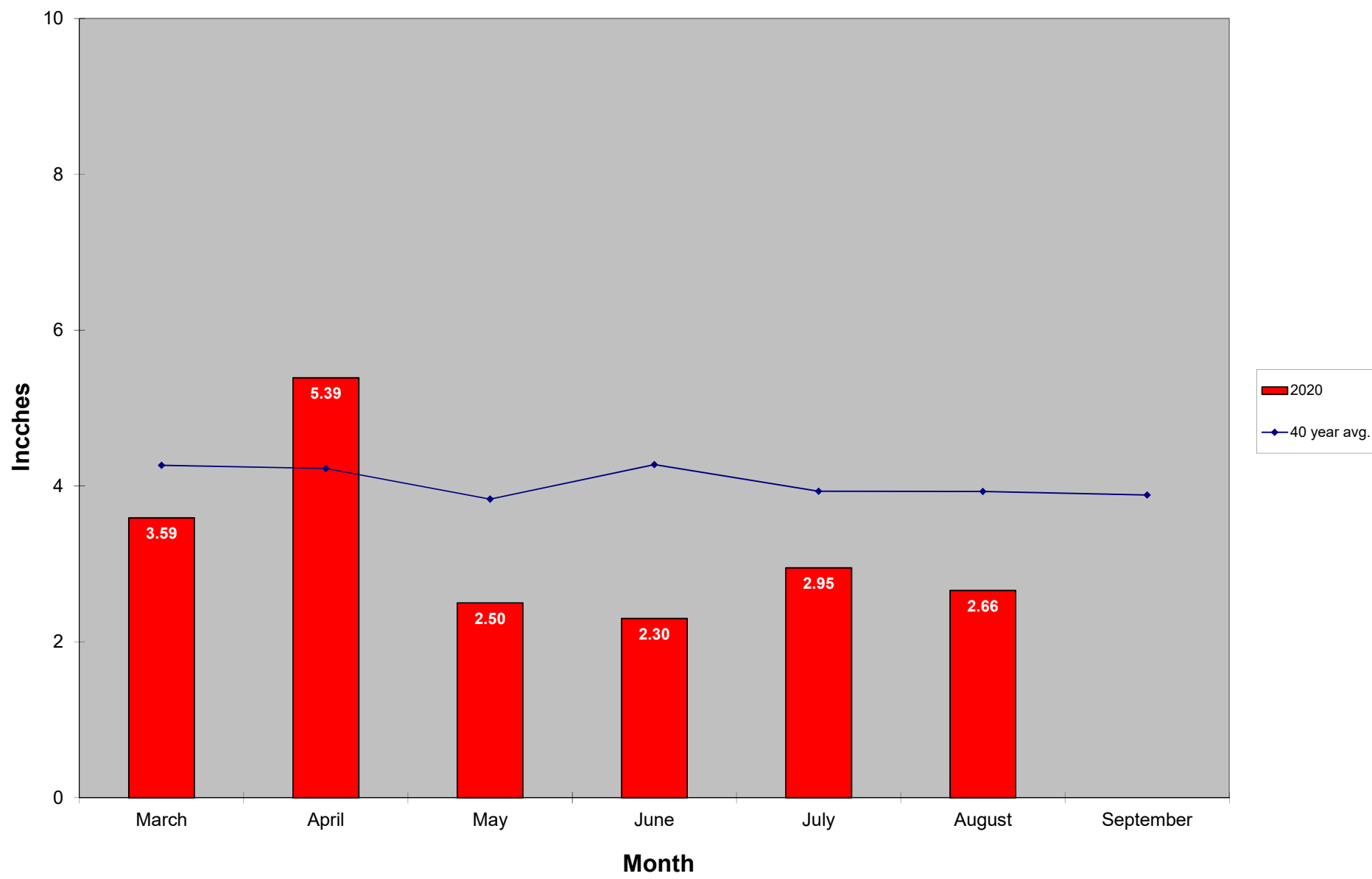
The predominant mosquito for the week was *Aedes vexans*,  
followed by *Culex* spp.

**General narrative:** The average temperature for EPI week 38 was approximately 8.57°F cooler than the previous week, with only 0.01 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 *Aedes vexans*, followed now 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 37 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps continued, with 113 eggs collected and submitted for identification this week.

Service requests for the year are 56.7% greater than the 17-year average and an 17.7% decrease over 2019 numbers. Weekly catch basin treatments for *Culex* control have ended, bringing the final total for the year to 88,650 basins. Final results are still pending

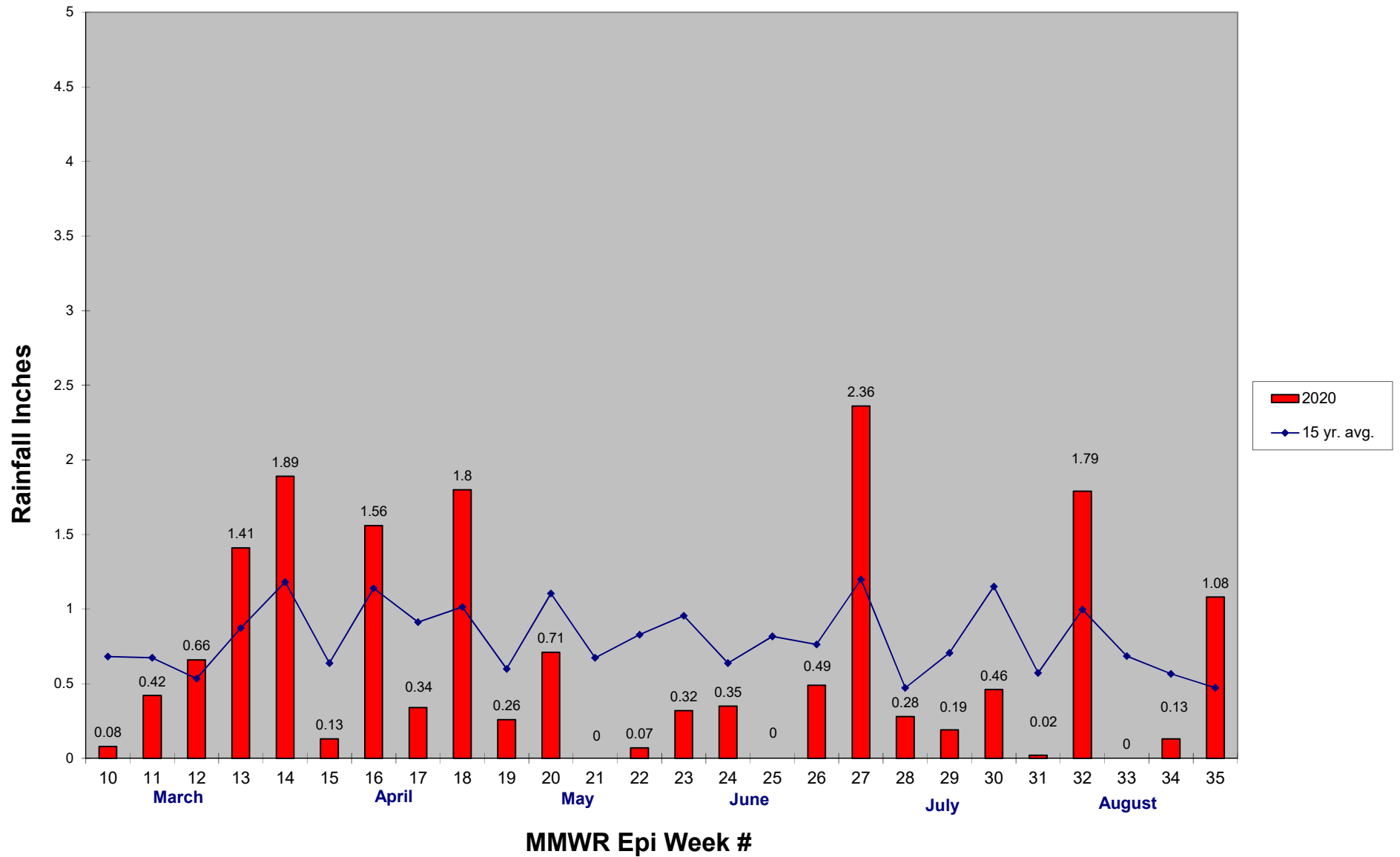
from the analysis laboratories but initial results do not look positive for control in most *Cs. melanura* crypt habitat. Data is still being collected and analyzed from emergence traps in *Cq. perturbans* habitat.

### 2020 Mass. Rainfall Data vs. 40 Year Average\*



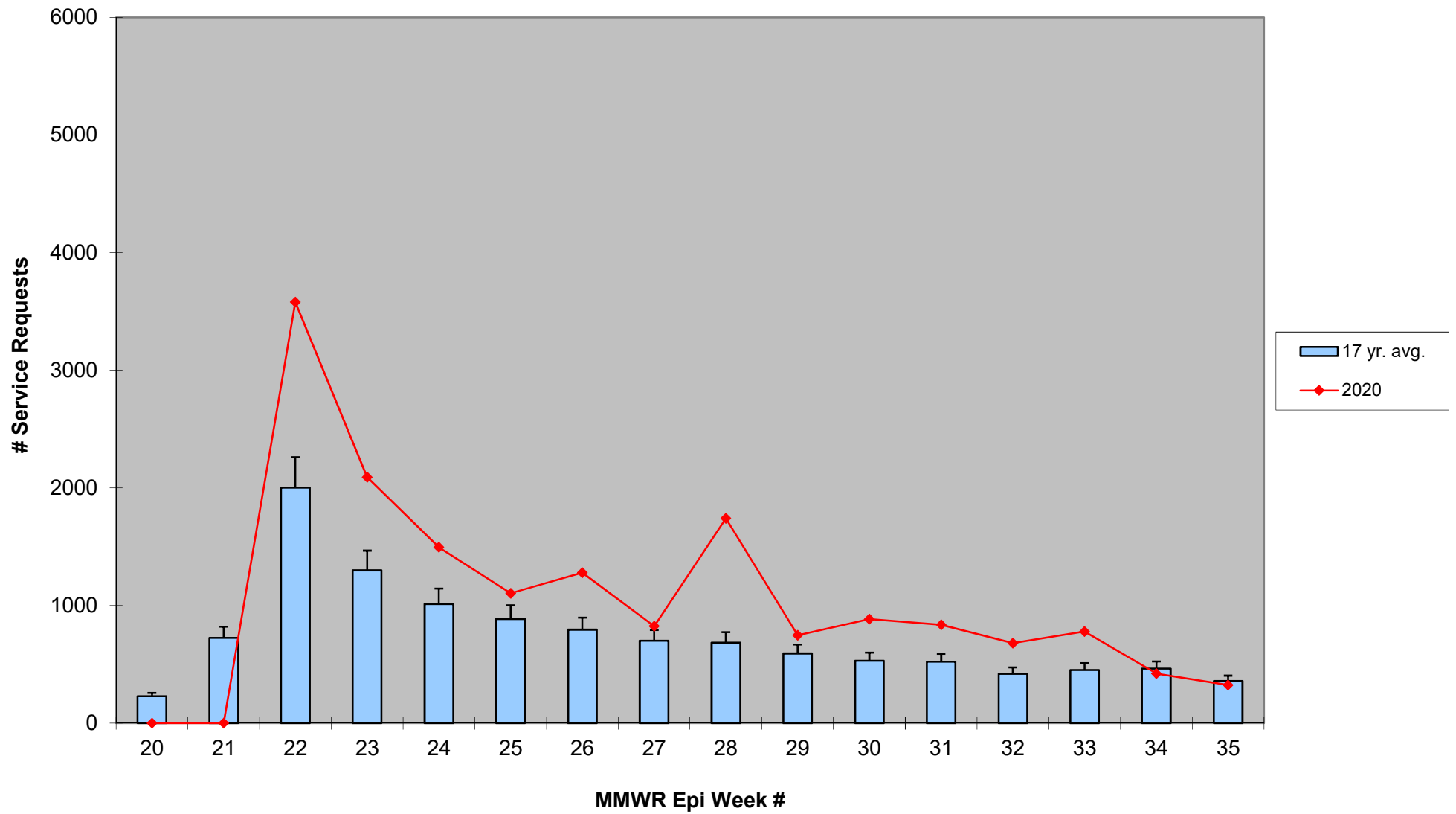
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

