

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #31**  
**July 26 – Aug. 1, 2020**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 7/26/20-8/1/20**  
**EPI Week #31**

**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	110	512	78	184	332	2445
Total Specimens	906	27683	287	2796	2740	39222
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 79.94°F with a recorded high temperature of 97.50°F and a recorded low temperature of only 62.30°F. For this week there was also a total of 0.02 inches of rain observed. Compared to the previous week, it was approximately 1.51°F warmer on average, and rained about 0.44 inches less. There has been 1.06 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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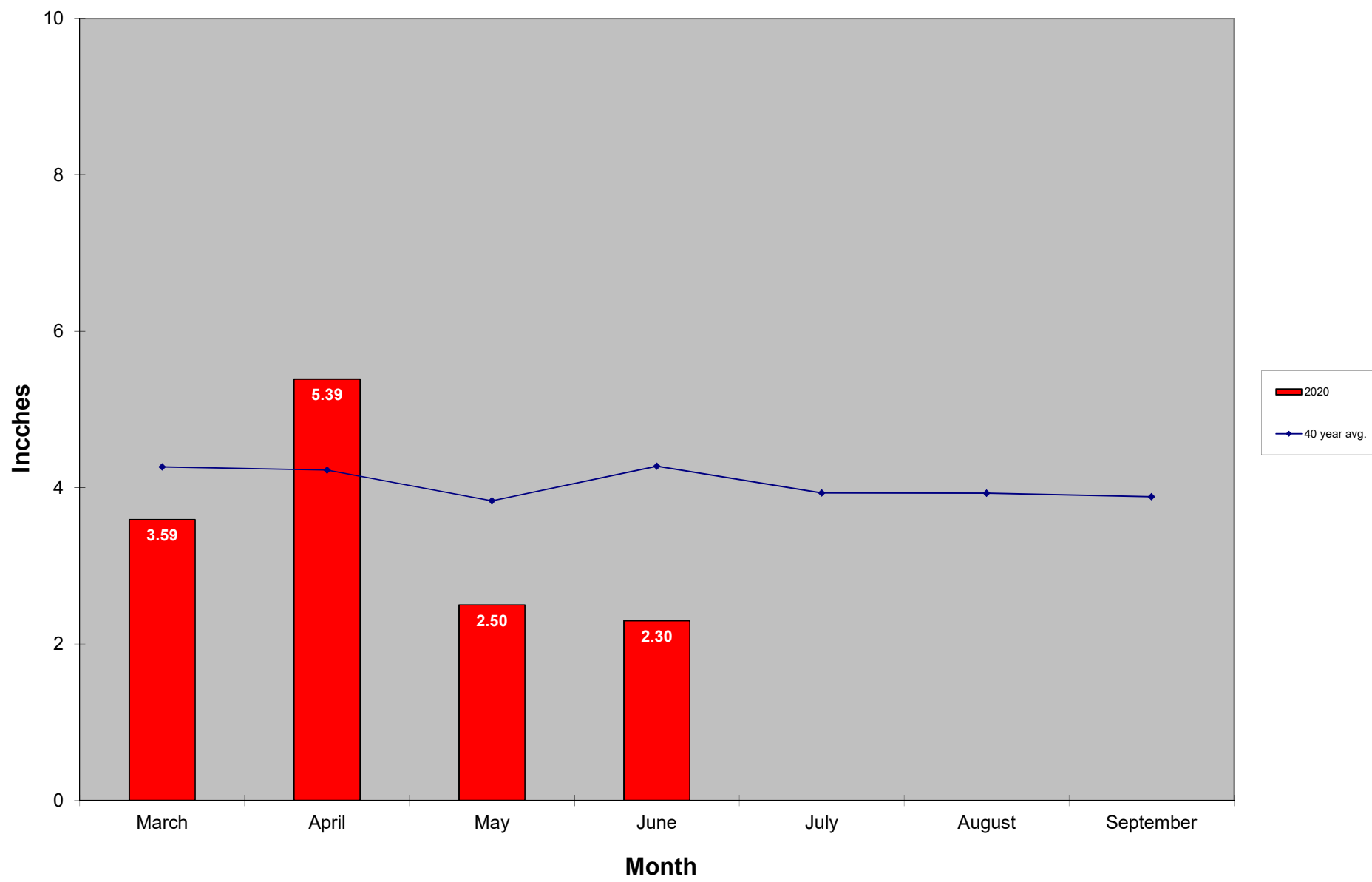
<i>Aedes vexans</i>	+3.470%	+148.7%	Gardner
<i>Coquilleltidia perturbans</i>	-21.59%	-80.58%	Hopkinton, Dracut
<i>Culiseta melanura</i>	-14.29%	-75.69%	Tewksbury, Blackstone
<i>Ochlerotatus canadensis</i>	-39.29%	-47.20%	Auburn, Gardner
<i>Culex</i> Species	-7.130%	-68.97%	Worcester, Devens
All Species	-13.07%	-76.94%	Hopkinton, Hopedale

The predominant mosquito for the week was *Coquilleltidia perturbans*,  
followed by *Ochlerotatus triseriatus*.

**General narrative:** The average temperature for EPI week 31 was approximately 1.51°F warmer than the previous week, with 0.02 inches of precipitation observed. This week decreased emergence was observed for all target mosquitoes except *Aedes vexans*. *Coquilleltidia perturbans* experienced a second consecutive week of decline in the CMMCP service area. Despite the weekly decrease, *Coquilleltidia perturbans* was once again the most abundant mosquito species for the week, followed now by *Ochlerotatus triseriatus*. 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 30 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps continued, with 104 eggs collected and submitted for identification this week.

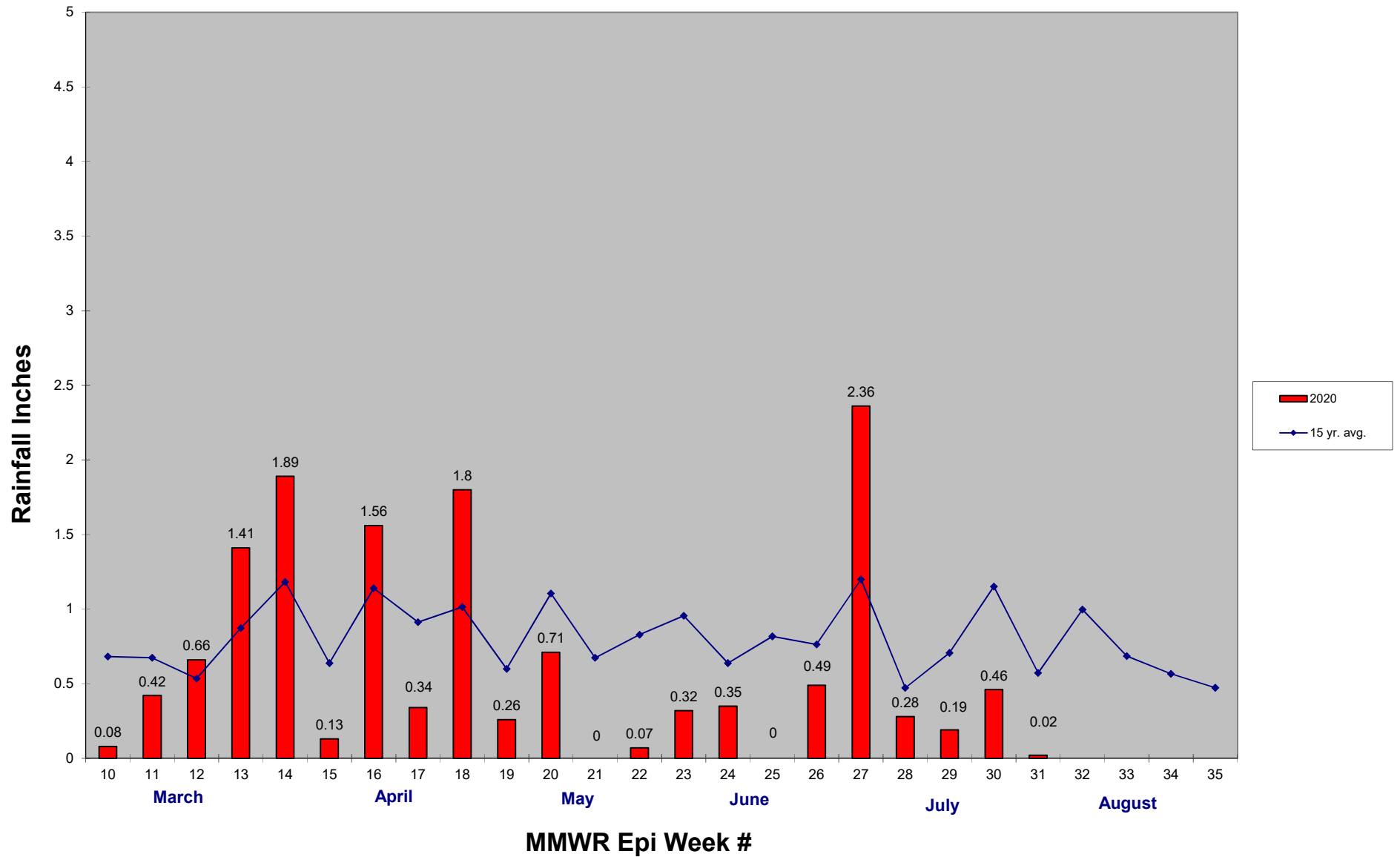
Service requests are 61.6% greater than the 17-year average and a 7.2% increase over 2019 numbers. Services requests are on par with Epi week 30 numbers. Work crews are performing catch basins treatments in all member communities for *Culex* control. 4,699 catch basins were treated in Epi week 31, bringing the total for the year to 60,147 basins. One interesting note, during Epi week 31 we treated our one-millionth catch basin since the program began in earnest in 2003 for *Culex* control and WNV risk mitigation. 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\*



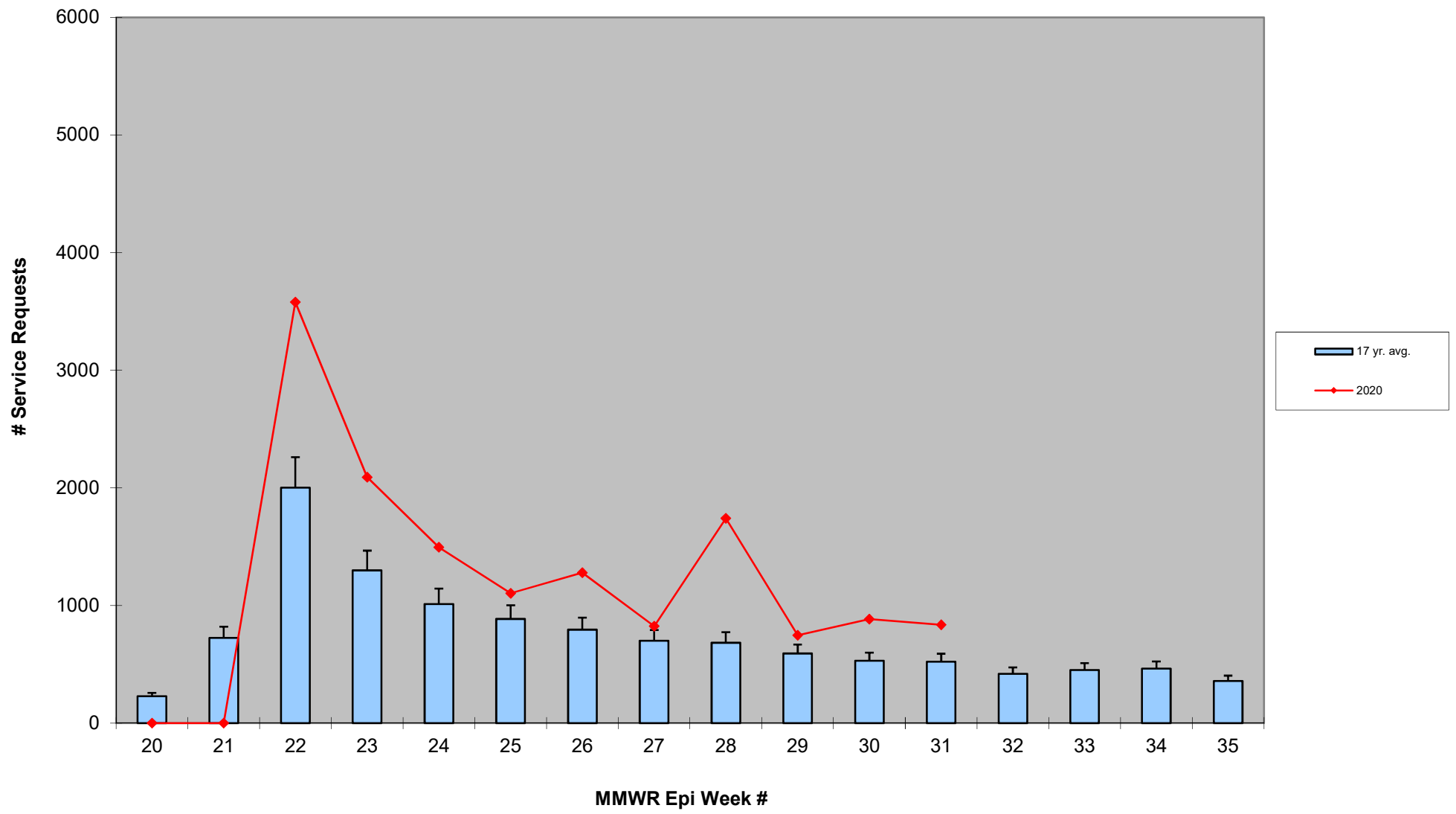
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

