

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #25**  
**June 14-20, 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- 6/14/20-6/20/20**  
**EPI Week #25**

**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	25	77	45	80	76	822
Total Specimens	139	2475	227	1259	319	6296
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 69.41°F with a recorded high temperature of 94.80°F and a recorded low temperature of only 44.90°F. For this week there was also a total of 0.00 inches of rain observed. Compared to the previous week, it was approximately 2.14°F warmer on average, and rained about 0.35 inches less. There has been 0.67 inches of rain accumulated in June, after 1.68 inches for the month of May.

**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>	-15.38%	-53.85%	Webster, Westborough
<i>Coquilleltidia perturbans</i>	+657.3%	-23.35%	Hudson, Westborough
<i>Culiseta melanura</i>	-72.11%	-30.63%	Westborough, Auburn
<i>Ochlerotatus canadensis</i>	+156.6%	-65.60%	Tewksbury, Webster
<i>Culex</i> Species	+3.310%	-55.83%	Chelmsford, Hudson
All Species	+181.4%	-37.96%	Hudson, Tewksbury

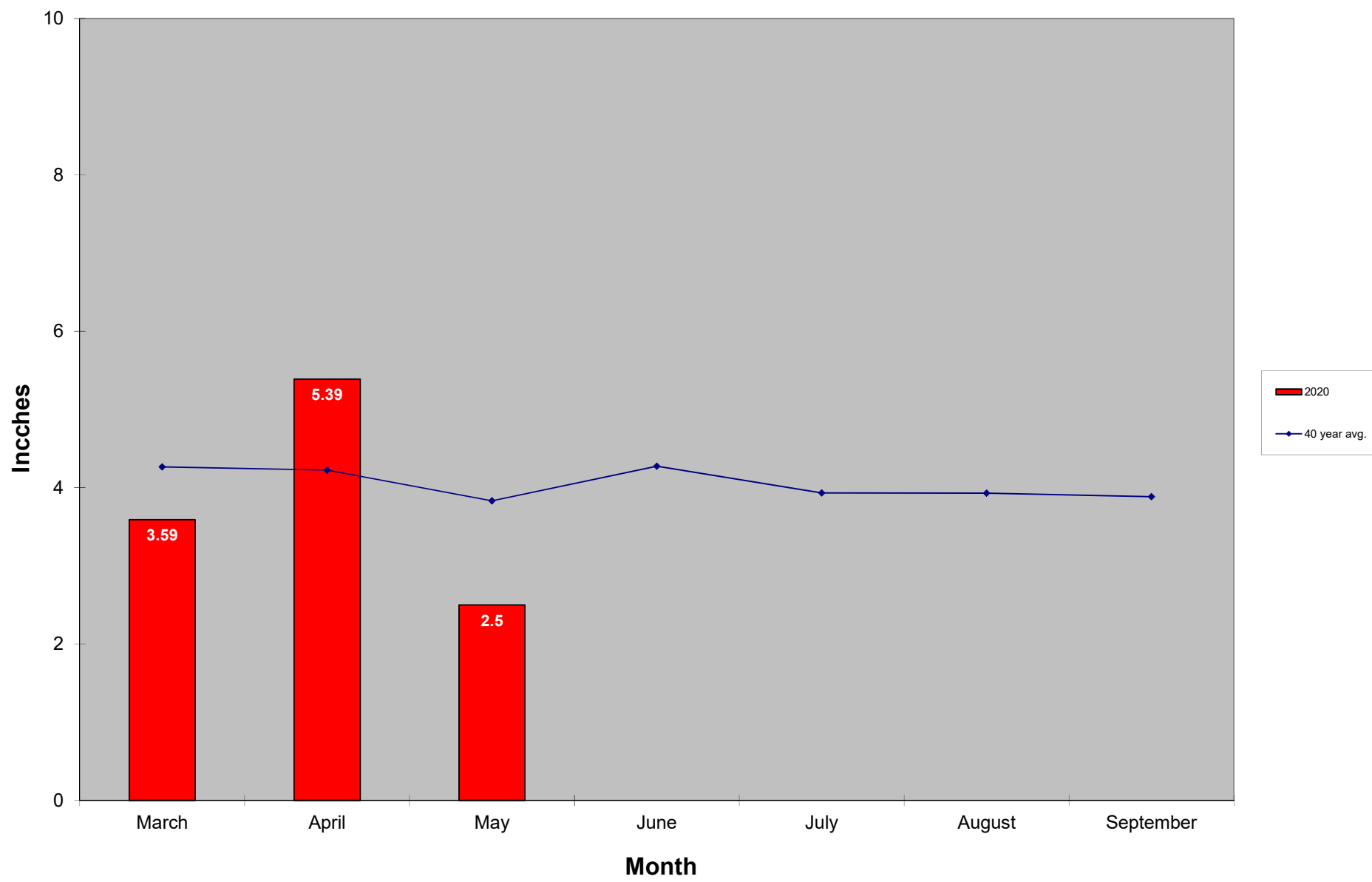
The predominant mosquito for the week was *Coquilleltidia perturbans*,  
followed by *Ochlerotatus canadensis*

**General narrative:** The temperatures for EPI week 25 averaged approximately 2.14°F warmer than the previous week, with no precipitation observed. Increased emergence was observed for *Coquilleltidia perturbans*, *Ochlerotatus canadensis* and *Culex spp.* *Coquilleltidia perturbans* was most abundant mosquito species for the week, followed by *Ochlerotatus canadensis*. Increasing temperatures and additional emergence *Coquilleltidia perturbans* should continue to contribute to higher overall collections moving forward. Compared to the 2019 season, overall mosquito surveillance numbers are down this year. All submitted mosquito pools from EPI week 24 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps will begin in EPI week 26.

Service requests are 24.7% greater than the 17-year average and 10.5% higher than Epi week 25 numbers from 2019. Services requests dropped 27.5% from Epi week 24. Work crews are performing catch basins treatments in all member communities for *Culex*

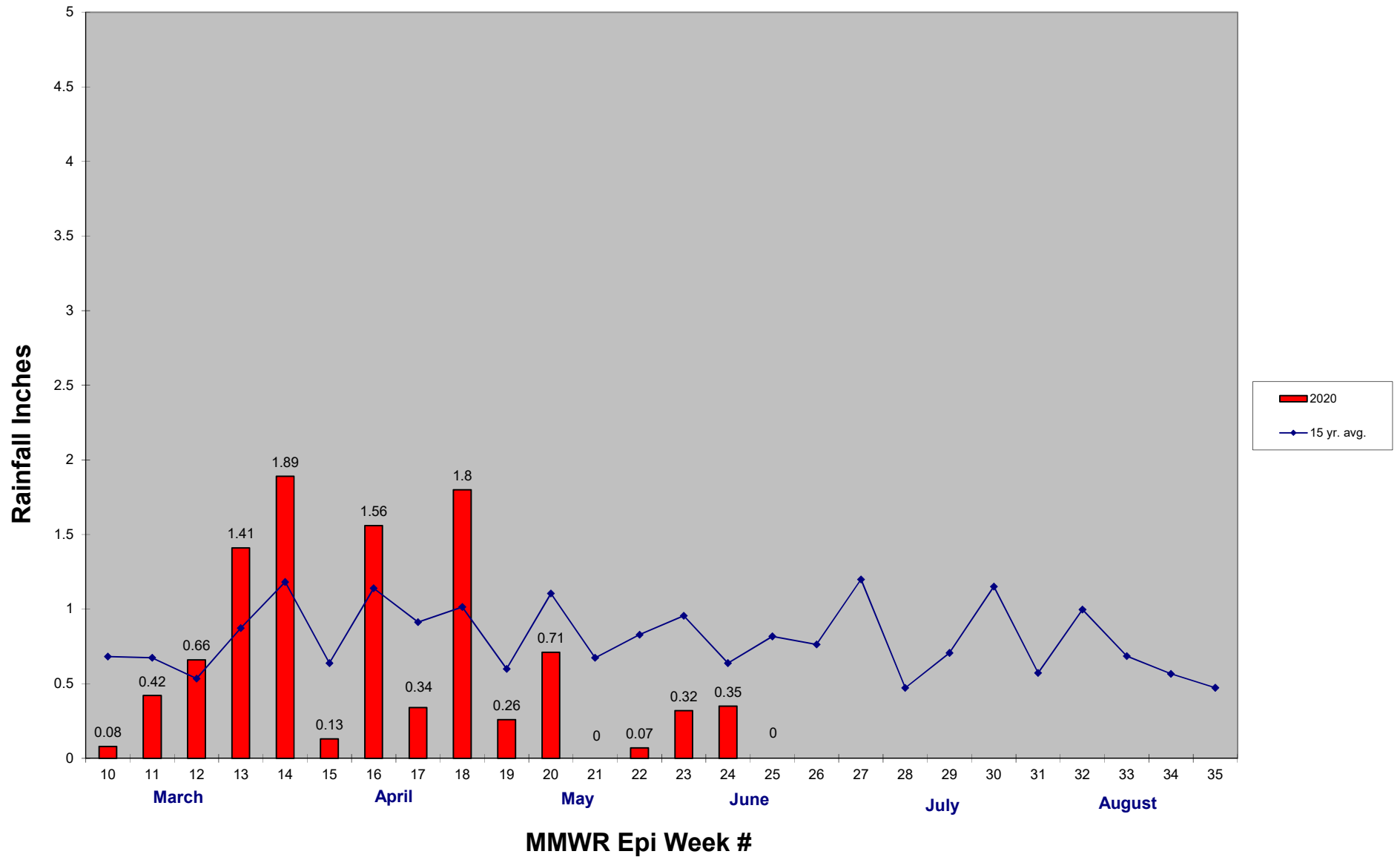
control. 6,353 catch basins were treated in Epi week 25, bringing the total for the year to 24,441 basins. Water sampling in areas of enhanced larval control for *Cs. melanura* that was done in May have been underway for 3 weeks; drying conditions may force the end of sampling a bit prematurely. Final results are pending from the analysis laboratories but initial results do not look positive for control in *Cs. melanura* crypt habitat.

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



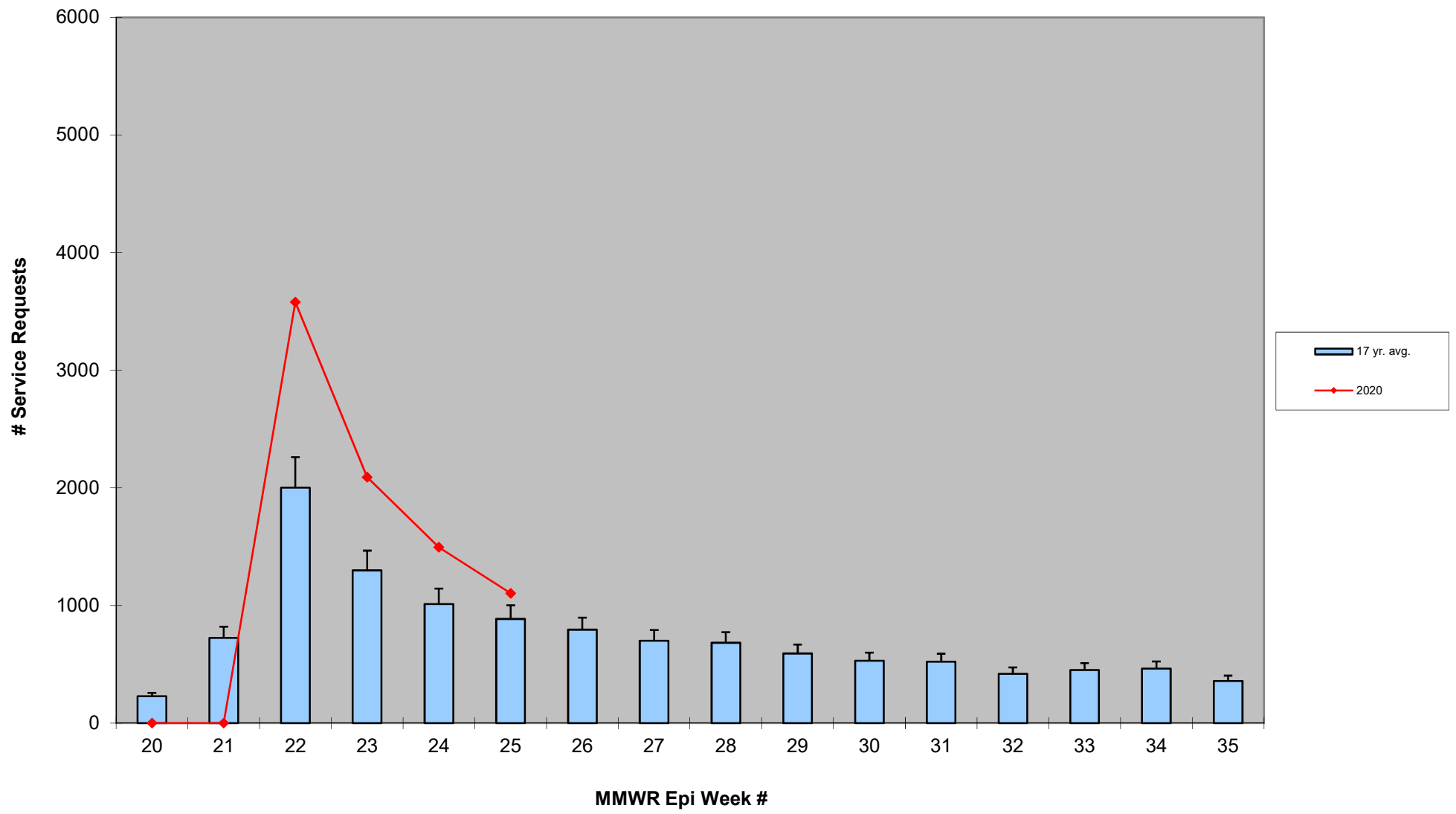
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

