

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #33**  
**Aug. 9-15, 2020**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 8/9/20-8/15/20**  
**EPI Week #33**

**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       | 155            | 670            | 87             | 193            | 450          | 3108        |
| Total Specimens | 1823           | 32158          | 301            | 2818           | 3474         | 46753       |
| 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 76.74°F with a recorded high temperature of 96.00°F and a recorded low temperature of only 60.10°F. There was no recordable rain observed this week. Compared to the previous week, it was approximately 1.70°F warmer on average, and rained about 1.79 inches less. There has been 1.79 inches of rain accumulated in August, after 1.06 inches for the month of July.

**CMMCP Mosquito Summary-**

| Target Species | Δ From<br>Last Week | Δ From<br>Last Year | Predominant Trap Site(s) |
|----------------|---------------------|---------------------|--------------------------|
|----------------|---------------------|---------------------|--------------------------|

|                                  |         |         |                          |
|----------------------------------|---------|---------|--------------------------|
| <i>Aedes vexans</i>              | -78.86% | +139.6% | Grafton, Hopedale        |
| <i>Coquilleltidia perturbans</i> | -49.38% | -79.43% | Bolton, Ayer             |
| <i>Culiseta melanura</i>         | -25.00% | -82.73% | Wilmington, Millbury     |
| <i>Ochlerotatus canadensis</i>   | -62.50% | -47.52% | Westford, Gardner        |
| <i>Culex</i> Species             | -27.29% | -71.60% | Tewksbury, Chelmsford    |
| All Species                      | -51.11% | -75.30% | Bolton, Boxborough, Ayer |

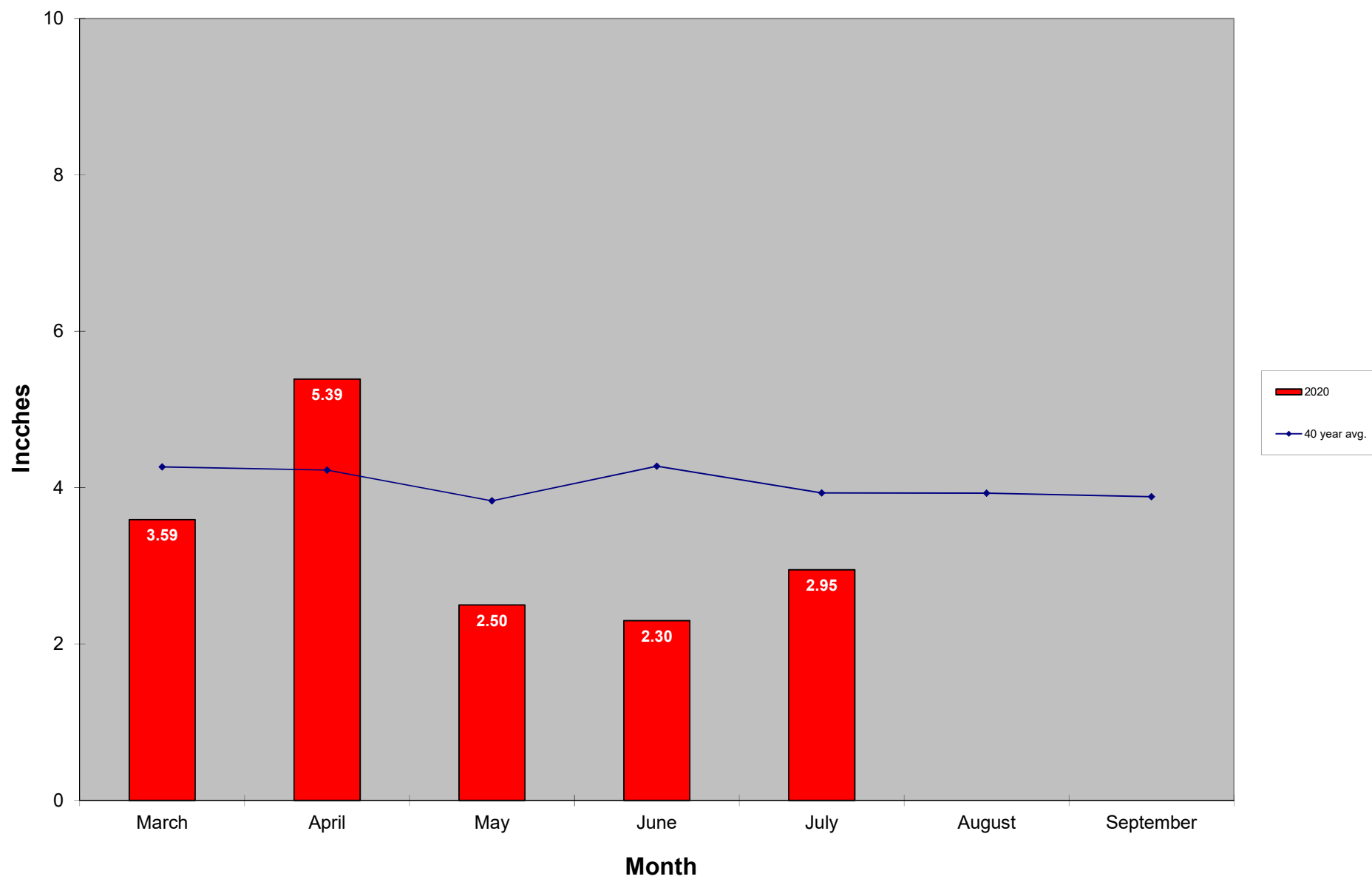
The predominant mosquito for the week was *Coquilleltidia perturbans*, followed by *Culex* spp.

**General narrative:** The average temperature for EPI week 33 was approximately 1.70°F warmer than the previous week, with no precipitation observed. This week decreased emergence was observed for all target species. Despite the continued decrease, *Coquilleltidia perturbans* was once again the most abundant mosquito species for the week, 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 32 tested negative for mosquito-borne disease. *Aedes albopictus* surveillance using ovitraps continued, with 1,492 eggs collected and submitted for identification this week. No observations of this invasive species have been noted to date in 2020.

Service requests are 62.2% greater than the 17-year average and a 1.7% increase over 2019 numbers. Services requests increased 14.7% over Epi week 32 numbers. Work

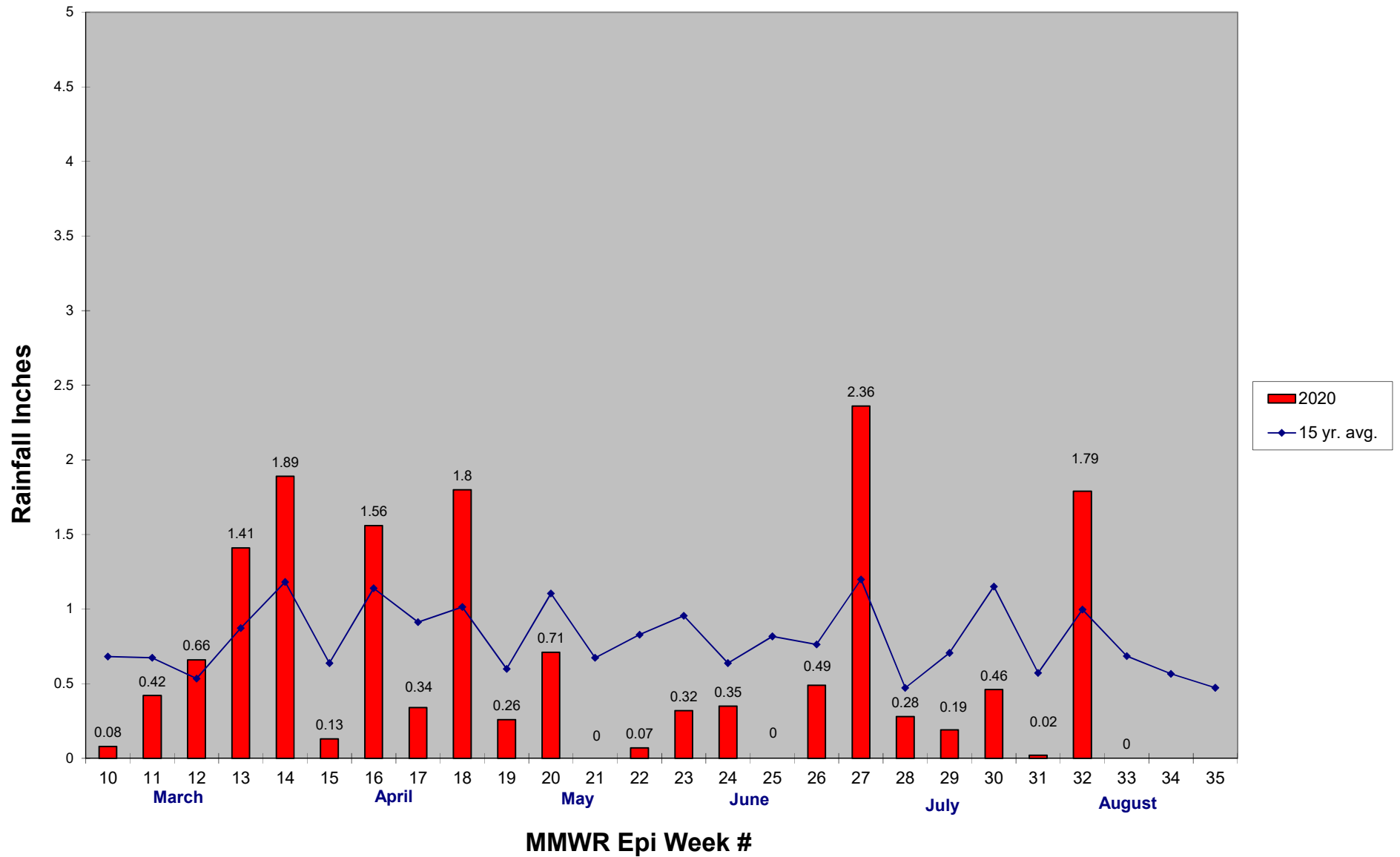
crews are performing catch basins treatments in all member communities for *Culex* control. 4,630 catch basins were treated in Epi week 33, bringing the total for the year to 71,326 basins. Final results are still pending from the analysis laboratories but initial results do not look positive for control 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\*



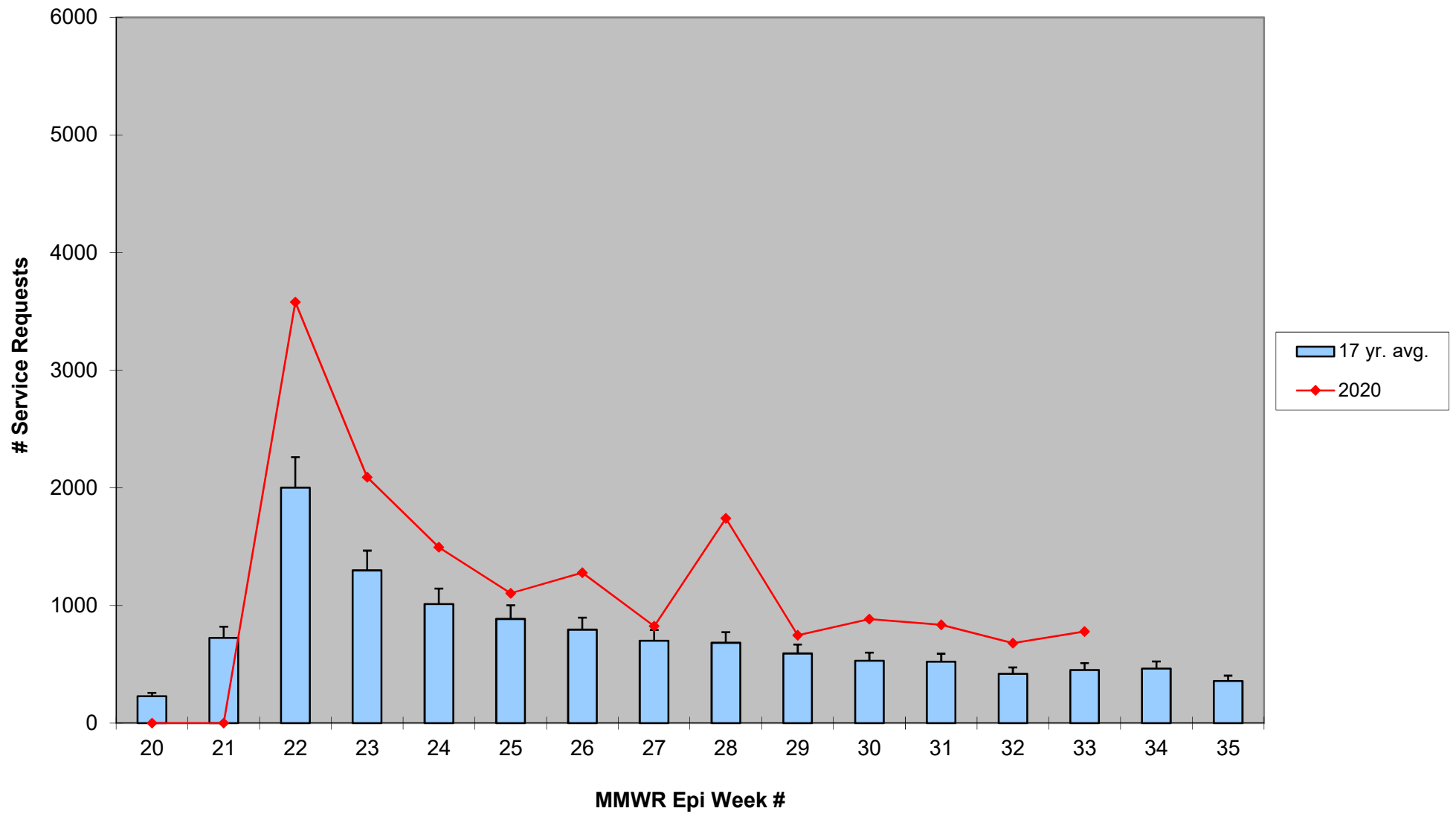
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

