

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #22
May 24-30, 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- 5/24/20-5/30/20
EPI Week #22

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	5	0	4	16	3	164
Total Specimens	66	0	11	242	7	764
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 67.44°F with a recorded high temperature of 90.60°F and a recorded low temperature of only 41.60°F. For this week there was also a total of 0.07 inches of rain observed. Compared to the previous week, it was approximately 8.08°F warmer on average, and rained about 0.07 inches more. There has been 1.68 inches of rain accumulated in May.

CMMCP Mosquito Summary-

Target Species

Predominant Trap Site(s)

<i>Aedes vexans</i>	Littleton, Acton
<i>Coquilleltidia perturbans</i>	N/A
<i>Culiseta melanura</i>	Ayer, Blackstone
<i>Ochlerotatus canadensis</i>	Auburn, Stow
<i>Culex</i> Species	Littleton
All Species	Stow, Auburn

The predominant mosquito for the week was *Ochlerotatus canadensis* followed by *Ochlerotatus abserratus*.

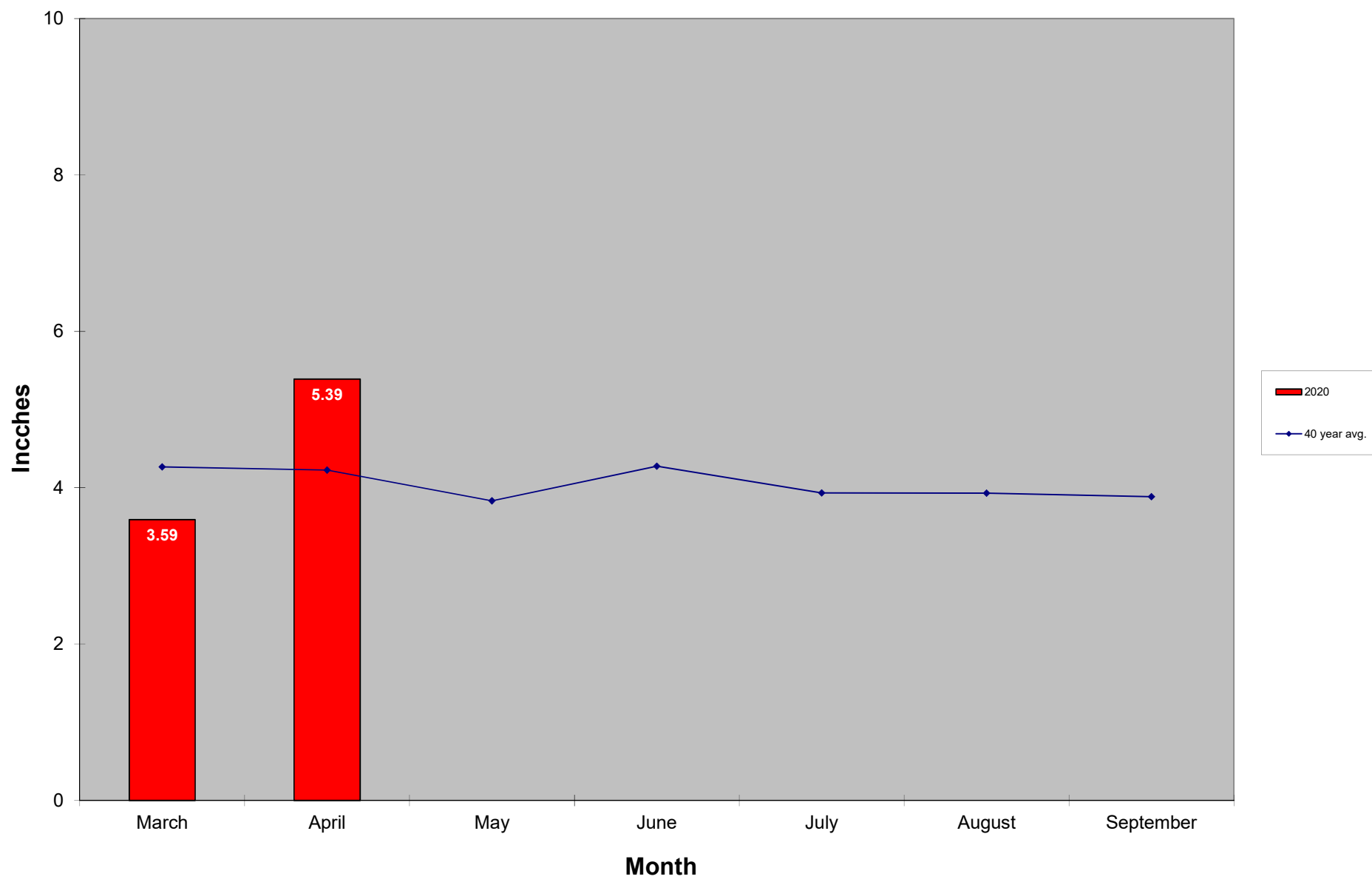
General narrative:

The temperatures for EPI week 22 averaged approximately 8.08 degrees warmer than the previous week, with 0.07 inches of precipitation observed. *Ochlerotatus canadensis* was the most abundant mosquito, followed by *Ochlerotatus abserratus*. Surveillance traps have not collected any *Coquilleltidia perturbans* to date. Gravid traps have not been utilized so far this season. Increasing temperatures and additional emergence should contribute to higher collections moving forward.

Service requests are 68.5% greater than the 17-year average (3,371 vs. 2,000) but 18.6% lower than Epi week 22 numbers from 2019 (4,003 vs. 3,371). This was our first week of recording service requests in 2020. Work crews have been performing catch basins treatments in all member communities for *Culex* control since mid-May but enhanced larval control surveys and treatments in 21 communities shifted focus from basins

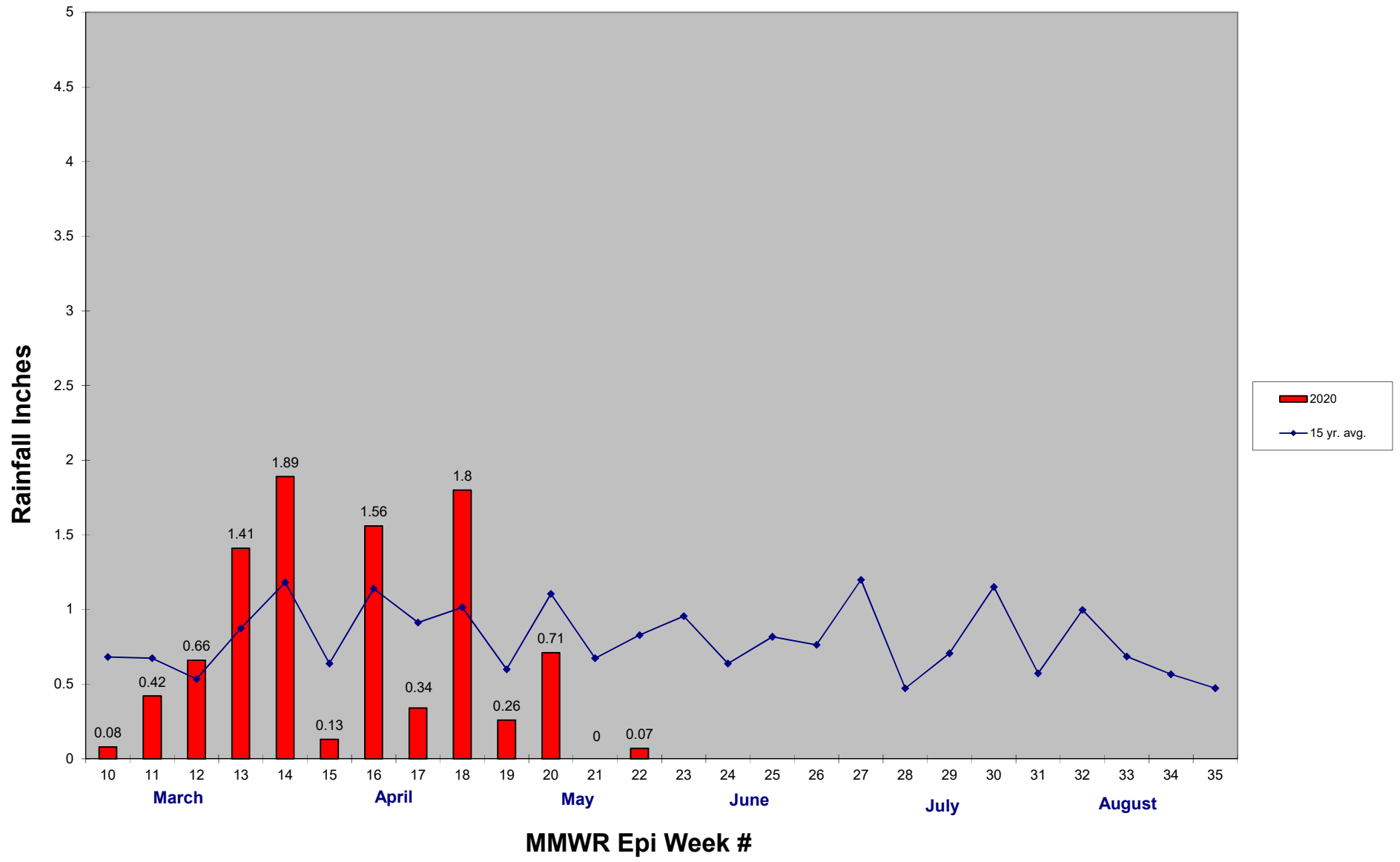
applications to this EEE mitigation effort. 5,417 catch basins were treated in Epi week 22, bringing the total for the year to 7,031 basins treated for *Culex spp.* control.

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

