

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #23
June 5-11, 2022

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Central Mass. Mosquito Control Project
Weekly Report- 6/5/22-6/11/22
EPI Week #23

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	2	43	23	23	50	240
Total Specimens	5	1158	75	250	569	2358
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 67.01°F with a recorded high temperature of 84.00°F and a recorded low temperature of only 46.30°F. For this week there was also a total of 1.39 inches of rain observed. Compared to the previous week, it was approximately 1.31°F warmer on average, and rained about 1.29 inches more. There has been 1.43 inches of rain accumulated in June, after 1.74 inches for the month of May.

CMMCP Mosquito Summary-

Target Species Δ From Predominant Trap Site(s)
Last Year

<i>Aedes vexans</i>	-92.65%	Blackstone, Ashland
<i>Coquilleltidia perturbans</i>	+87.38%	Westford, Tewksbury, Dracut
<i>Culiseta melanura</i>	+341.2%	Wilmington, Ayer
<i>Ochlerotatus canadensis</i>	-32.18%	Hopkinton, Lunenburg, Fitchburg
<i>Culex</i> Species	+2609%	Wilmington, Billerica
All Species	+37.33%	Westford, Lunenburg, Tewksbury

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

General narrative:

The temperatures for EPI week 23 averaged approximately 1.31°F warmer than the previous week, with 1.39 inches of precipitation observed. Surveillance traps show that the adult emergence of *Coquilleltidia perturbans* has begun. *Coquilleltidia perturbans* was most abundant mosquito species for the week, followed by *Culex*. Increasing temperatures and additional emergence of *Coquilleltidia perturbans* should contribute to higher collections moving forward. *Aedes albopictus* surveillance using ovitraps has recently started. Mosquito pools from this week were the first of the year to be submitted to MDPH for arbovirus testing.

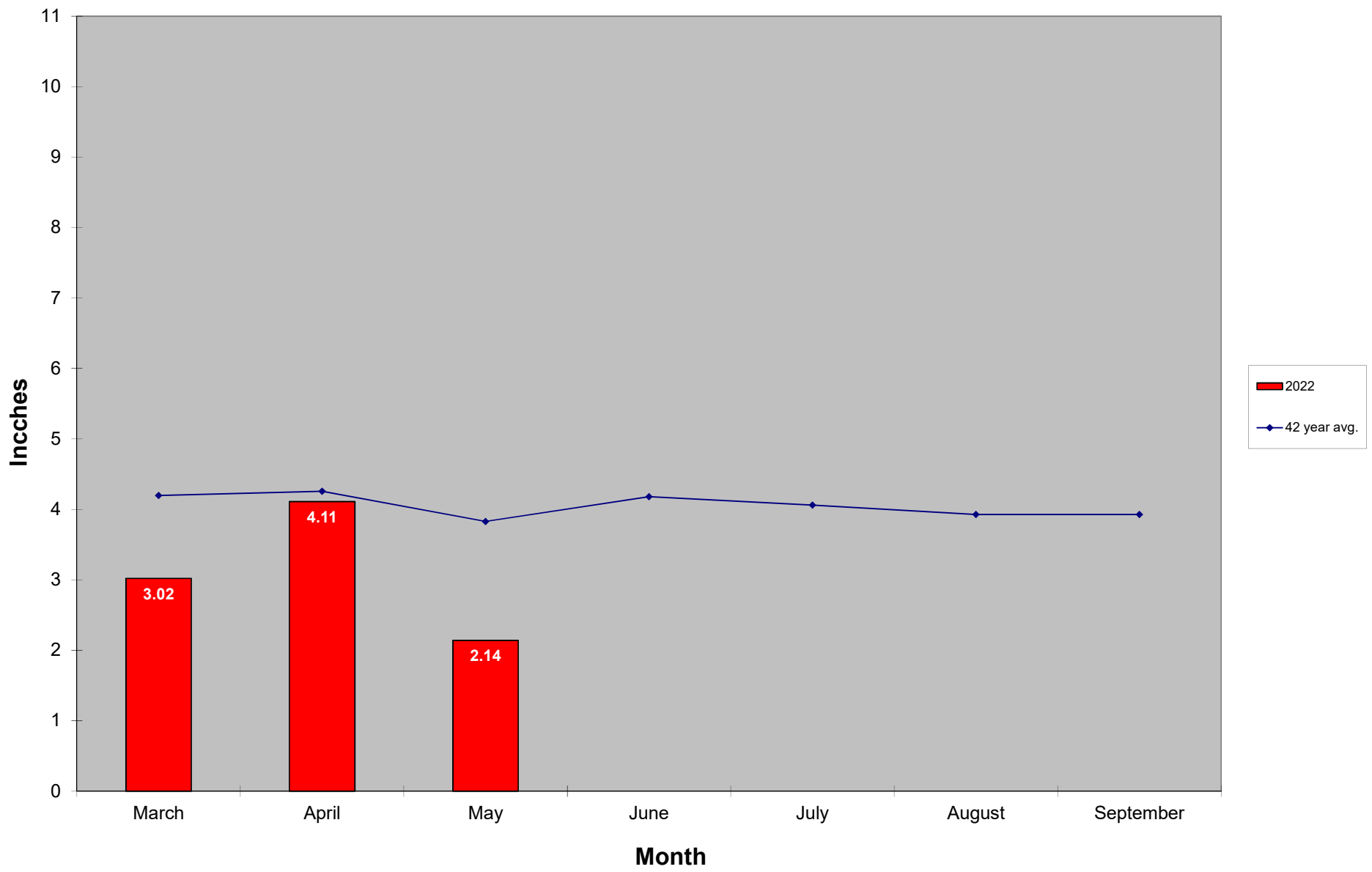
Operational Notes:

Service requests on par with the 19-year average but a 24.6% decrease over 2021 numbers to date. We began accepting service requests on May 31. Work crews began

performing catch basins treatments for *Culex* control on May 16. 5,554 basins were treated in Epi week 23, with 20,786 catch basins treated to date.

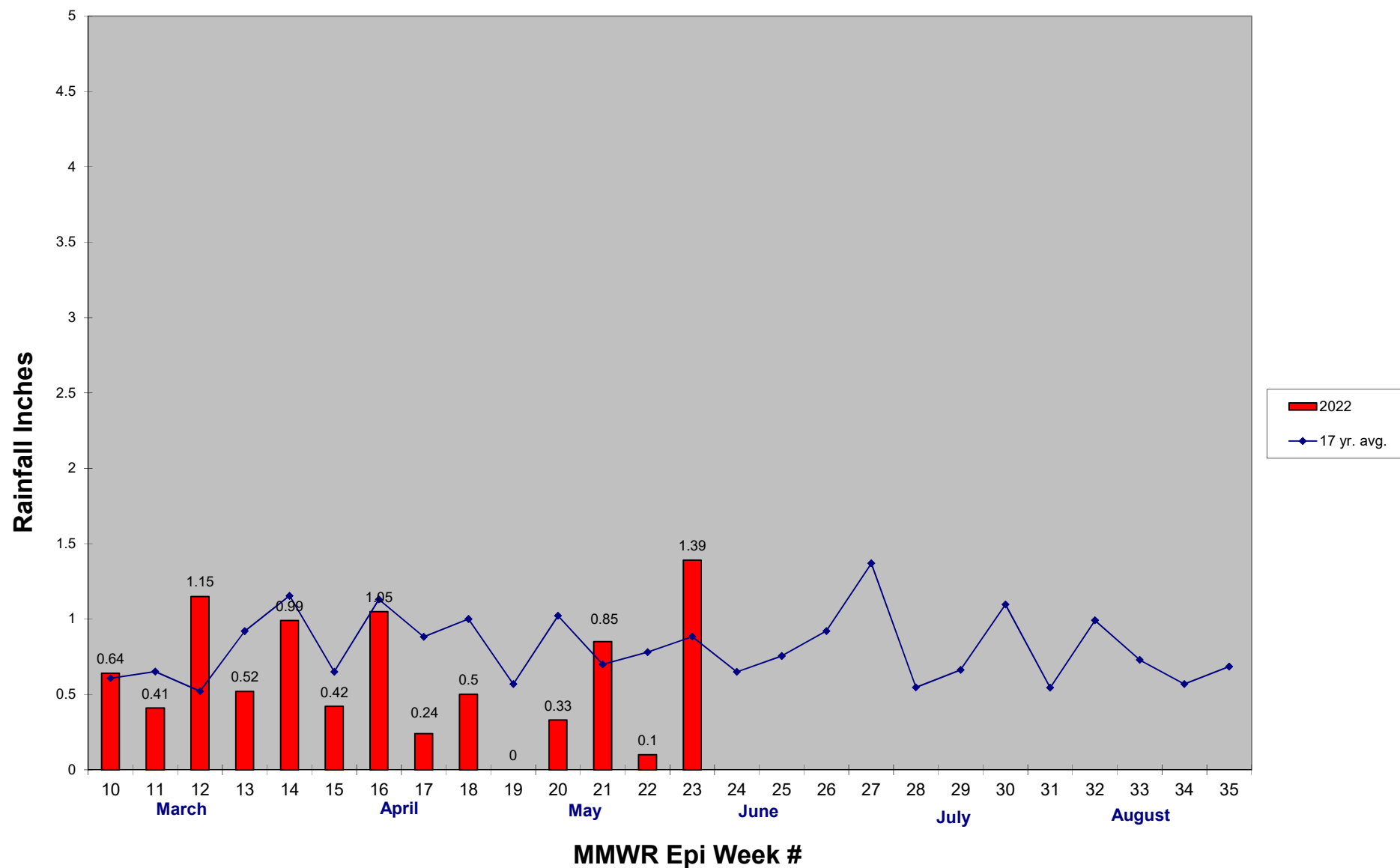
Enhanced larval control over 1,500 acres of *Cq. perturbans* habitat was done May 24 & 25 in 12-member communities designated as “Critical” risk from EEE in 2019. Data is being collected and analyzed from emergence traps in these habitats.

2022 Mass. Rainfall Data vs. 42 Year Average*



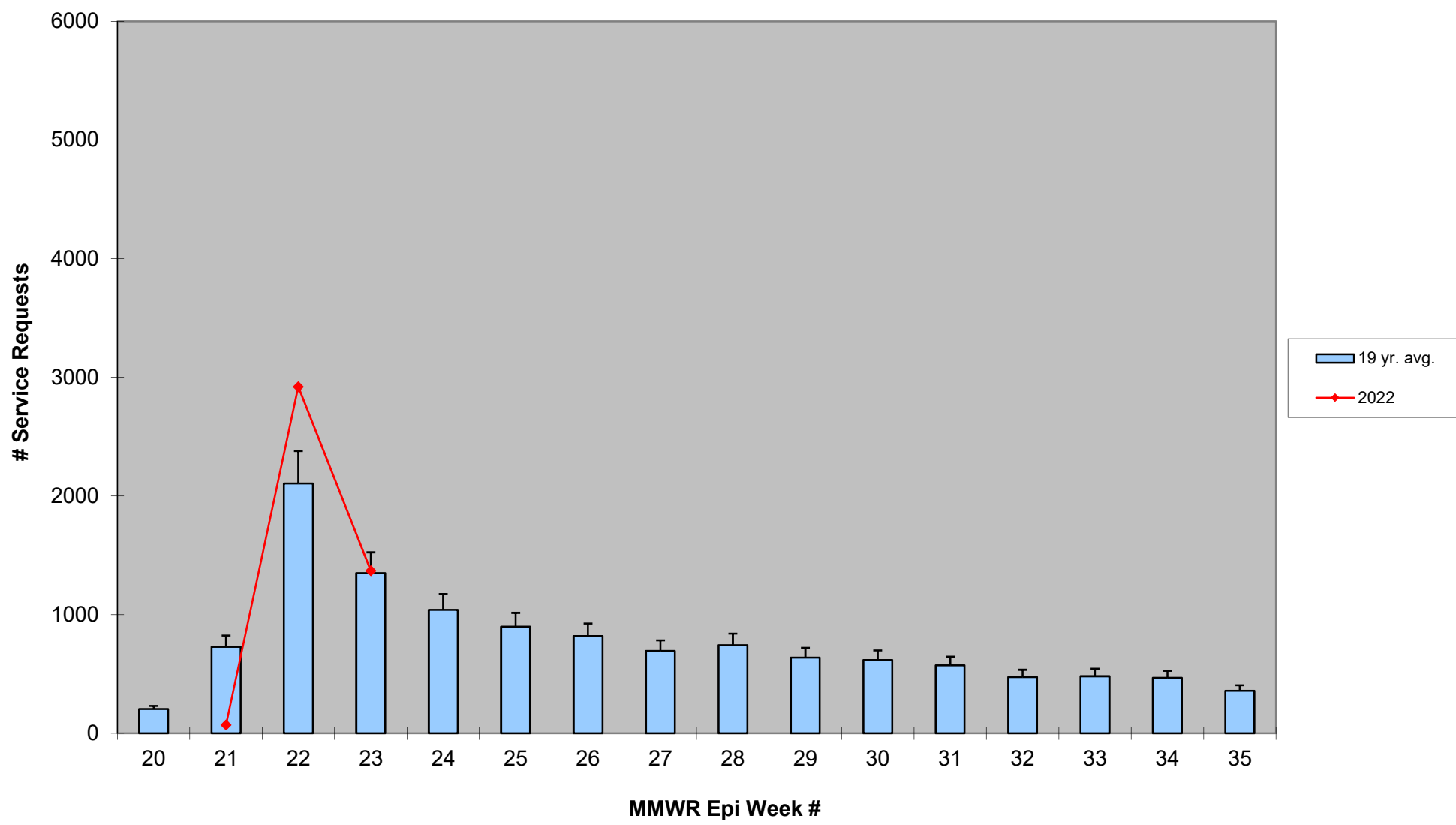
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2022 CMMCP Weekly Rainfall vs. 17 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History 2003-2022



2022 Rainfall vs. Requests

