

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #24
June 12-18, 2022

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**Central Mass. Mosquito Control Project
Weekly Report- 6/12/22-6/18/22
EPI Week #24**

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	10	100	55	49	108	570
Total Specimens	27	3579	221	514	896	6083
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 68.47°F with a recorded high temperature of 86.80°F and a recorded low temperature of only 51.40°F. For this week there was also a total of 0.24 inches of rain observed. Compared to the previous week, it was approximately 1.46°F warmer on average, and rained about 1.15 inches less. There has been 1.67 inches of rain accumulated in June, after 1.74 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>	+220.0%	-78.79%	Littleton
<i>Coquillettidia perturbans</i>	+34.37%	+62.32%	Lancaster, Holliston, Sturbridge
<i>Culiseta melanura</i>	+58.67%	+525.8%	Webster, Millville, Blackstone
<i>Ochlerotatus canadensis</i>	-22.40%	-16.23%	Devens, Littleton, Southborough
<i>Culex</i> Species	-43.23%	+1927%	Leominster, Marlborough
All Species	+11.62%	+51.21%	Littleton, Lancaster, Devens

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

General narrative: The temperatures for EPI week 24 averaged approximately 1.46°F warmer than the previous week, with 0.24 inches of precipitation observed. Surveillance traps indicate that the adult emergence of *Coquillettidia perturbans* has continued. *Coquillettidia perturbans* was again the most abundant mosquito species for the week, followed by *Culex*. Increasing temperatures and additional emergence of *Coquillettidia perturbans* should contribute to higher collections moving forward. *Aedes albopictus* surveillance using ovitraps has started, with 1,016 eggs collected so far. All mosquito pools submitted in EPI week 23 to MDPH for arbovirus testing were negative.

Ae. albopictus egg collections:

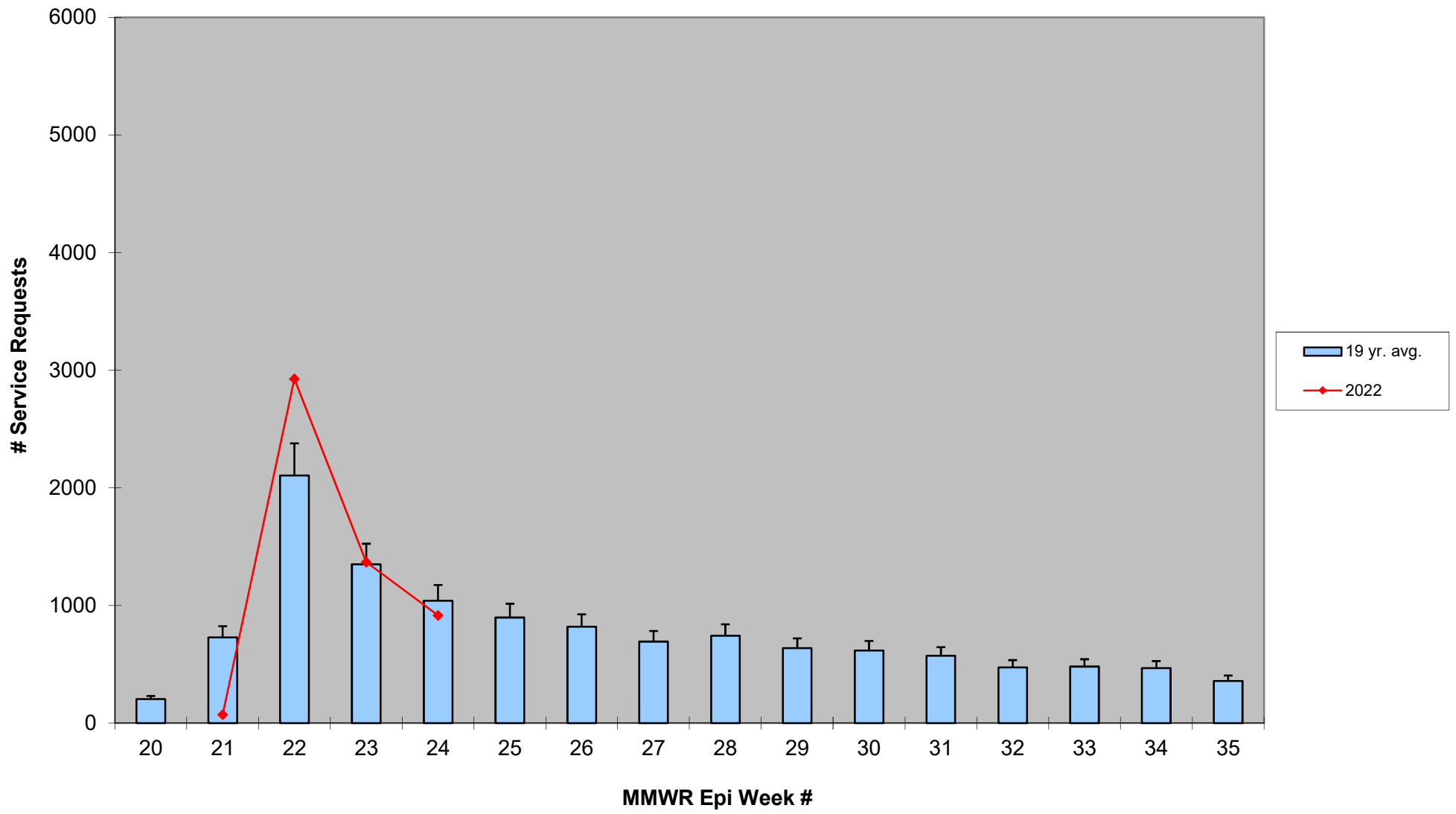
Epi week#	# eggs Collected	Epi week#	# eggs Collected
23	0	31	
24	1,016	32	
25		33	
26		34	
27		35	
28		36	
29		37	
30		38	
	TOTAL	1,016	
No ATM detections to date			

Operational notes:

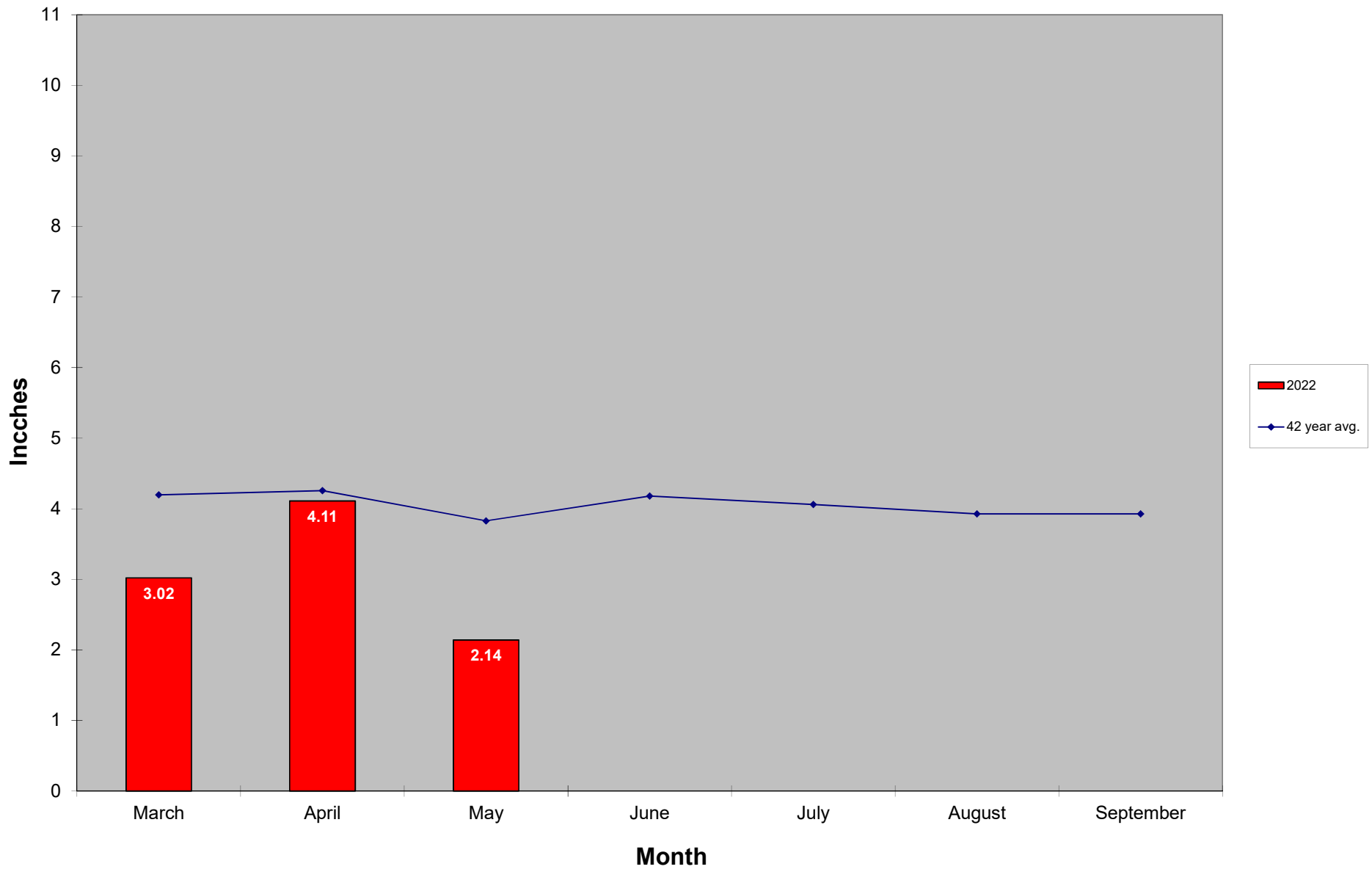
Service requests slightly below the 19-year average but a 22.7% decrease over 2021 numbers to date. We began accepting service requests on May 31 and 3,692 requests have been closed from 5,281 total (43% open). Temps have been cool at night but not below treatments thresholds, and may have suppressed resident's exposure, thus lower service calls. Work crews began performing catch basins treatments for *Culex* control on May 16. 7,506 basins were treated in Epi week 24, with 28,001 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.

ULV Service Request History 2003-2022

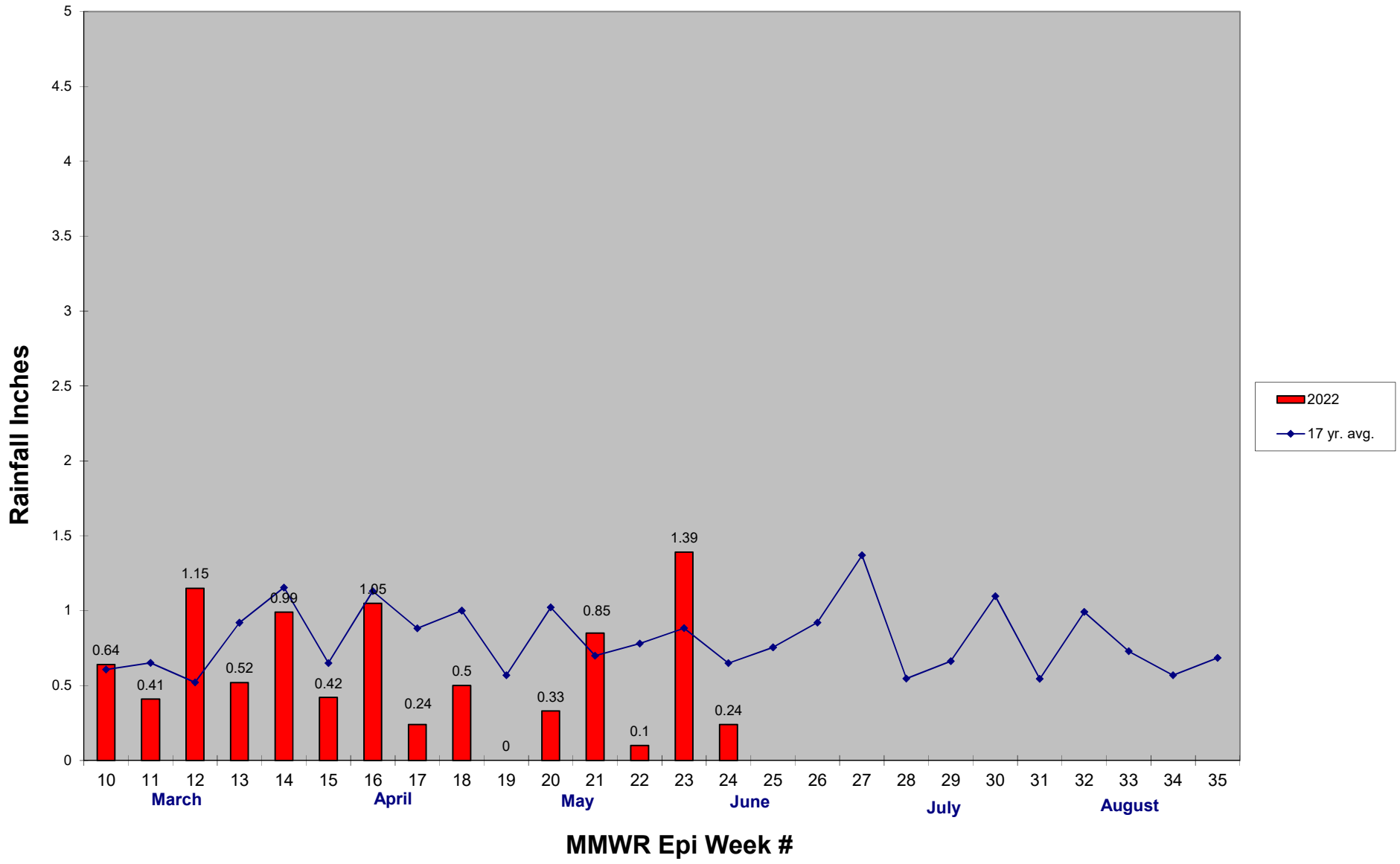


2022 Mass. Rainfall Data vs. 42 Year Average*



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

2022 CMMCP Weekly Rainfall vs. 17 Year Average*



*source: CMMCP weather station Northborough, MA

2022 Rainfall vs. Requests

