

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #23
June 4 – 10, 2023

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**Central Mass. Mosquito Control Project
Weekly Report- 6/4/23-6/10/23
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	39	18	16	58	54	594
Total Specimens	336	45	48	861	496	4386
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 56.77°F with a recorded high temperature of 74.60°F and a recorded low temperature of only 43.70°F. For this week there was also a total of 0.14 inches of rain observed. Compared to the previous week, it was approximately 9.27°F cooler on average, and rained about 0.08 inches more. There has been 0.20 inches of rain accumulated in June, after 2.04 inches for the month of May.

CMMCP Mosquito Summary-

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

<i>Aedes vexans</i>	+1540%	Devens, Billerica
<i>Coquillettidia perturbans</i>	-97.50%	Boxborough, Westborough, Ayer
<i>Culiseta melanura</i>	-97.33%	Sturbridge, Hudson
<i>Ochlerotatus canadensis</i>	+16.40%	Boxborough, Westford, Ayer
<i>Culex</i> Species	-16.70%	Shrewsbury, Sturbridge
All Species	-31.68%	Boxborough, Billerica

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

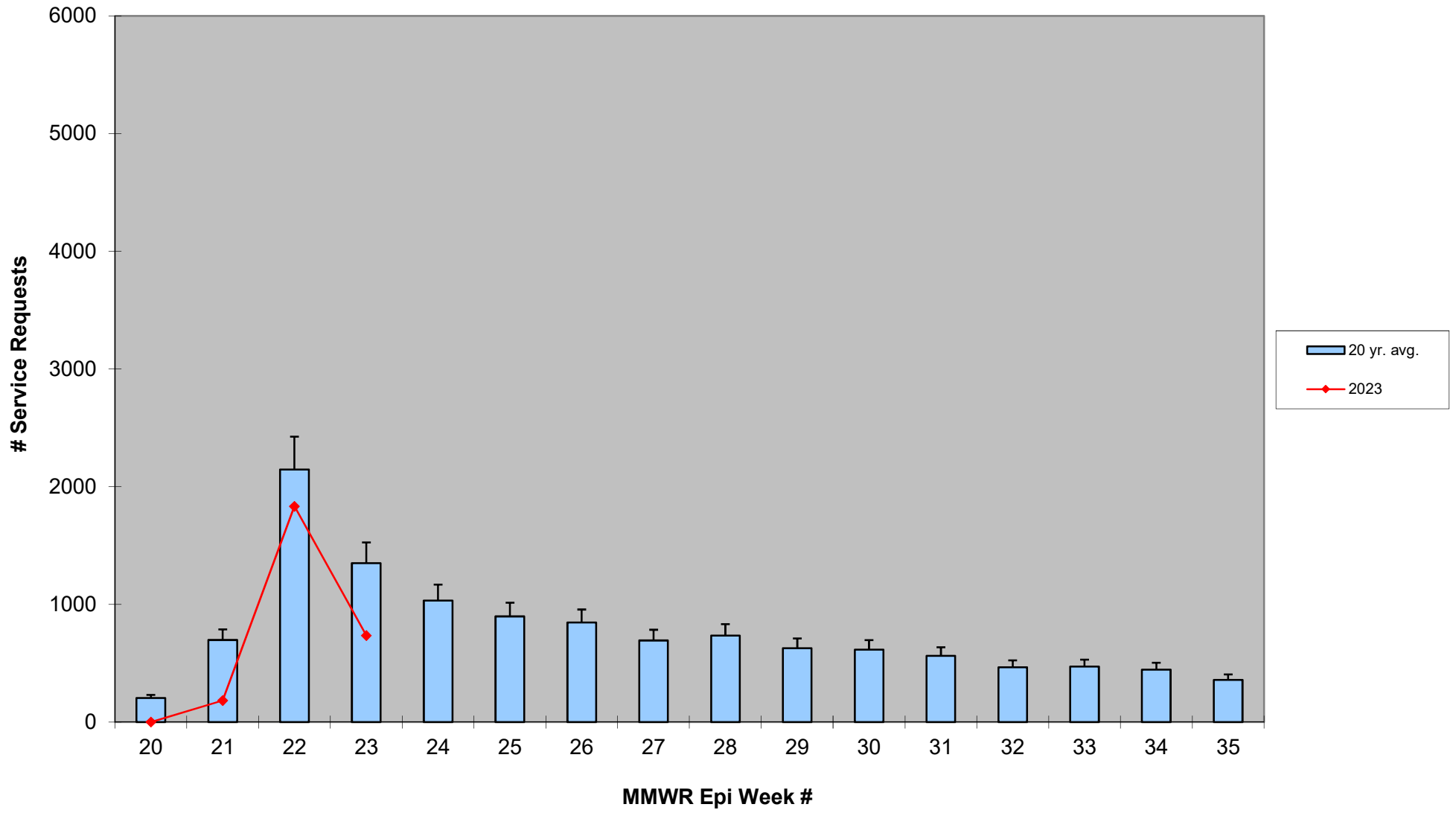
General narrative:

The temperatures for EPI week 23 averaged approximately 9.27°F cooler than the previous week, with only 0.14 inches of precipitation observed. Surveillance trap collections were generally low this period. *Coquillettidia perturbans* emergence has also been much lower than in the previous year to date. *Culex* was most abundant mosquito for the week, followed by *Ochlerotatus canadensis*. Increasing temperatures and the eventual emergence of *Coquillettidia perturbans* should contribute to higher collections moving forward. *Aedes albopictus* surveillance using ovitraps began this week. Mosquito pools from this collection period were the first of the year to be submitted to MDPH for arbovirus testing.

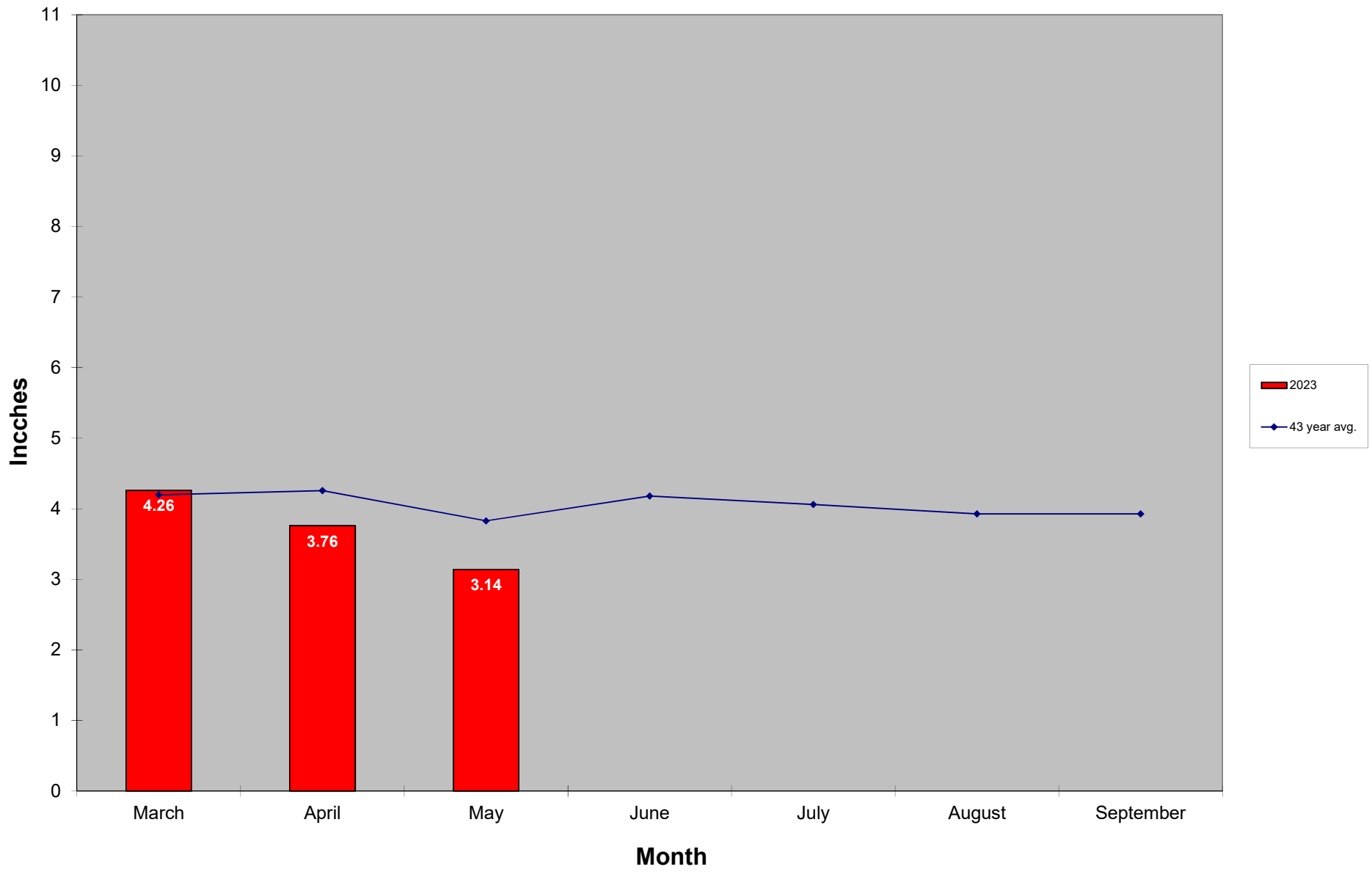
Operational notes:

Service requests are 59.8% below the 20-year average and a 58.8% decrease over 2022 numbers to date. We began accepting service requests on May 29 and 1,078 requests have been closed from 2,751 total (60.8% open). Work crews began performing catch basins treatments for *Culex* control on May 22. 6,351 basins were treated in Epi week 23, with 23,634 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.

ULV Service Request History 2003-2023

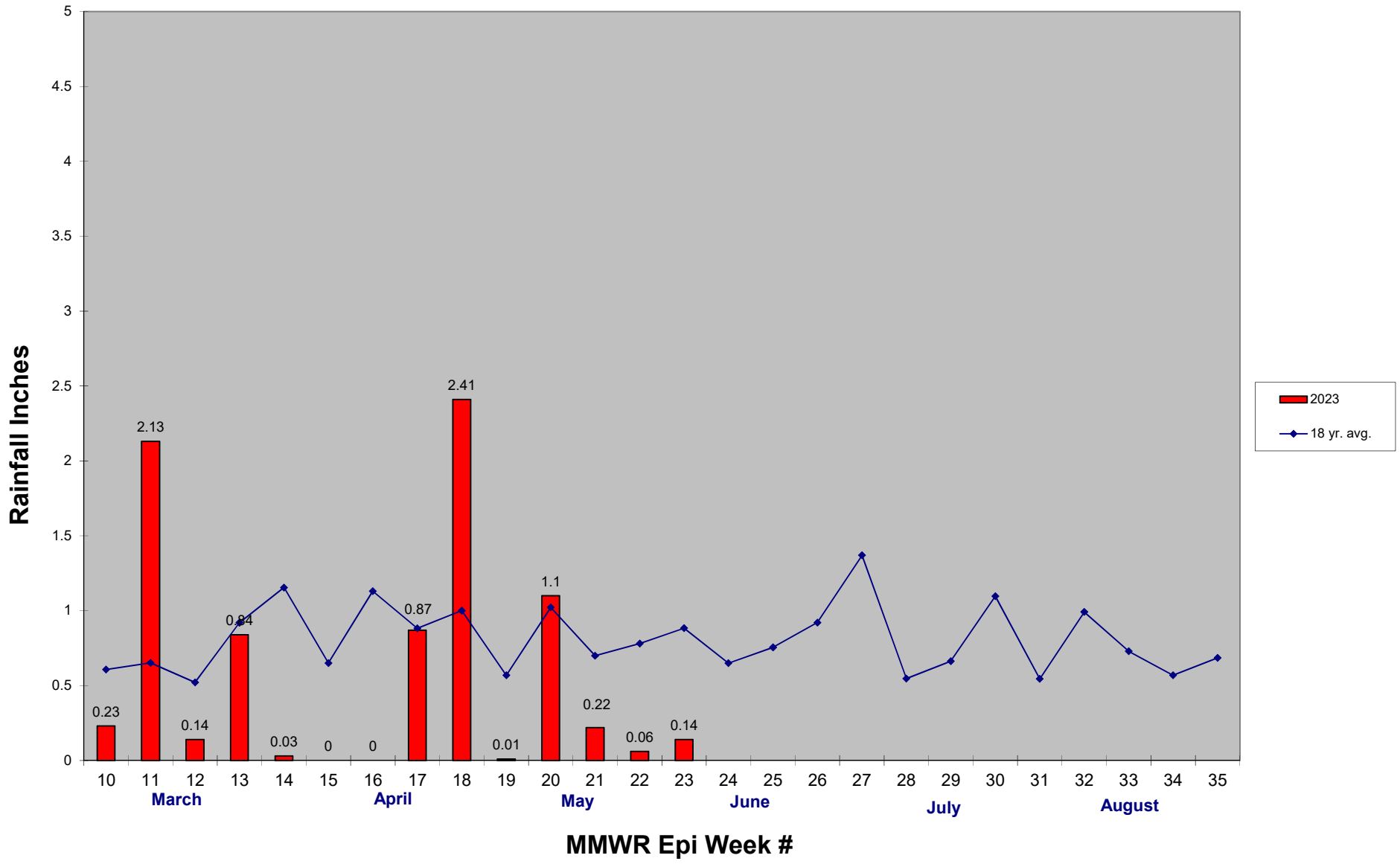


2023 Mass. Rainfall Data vs. 43 Year Average*



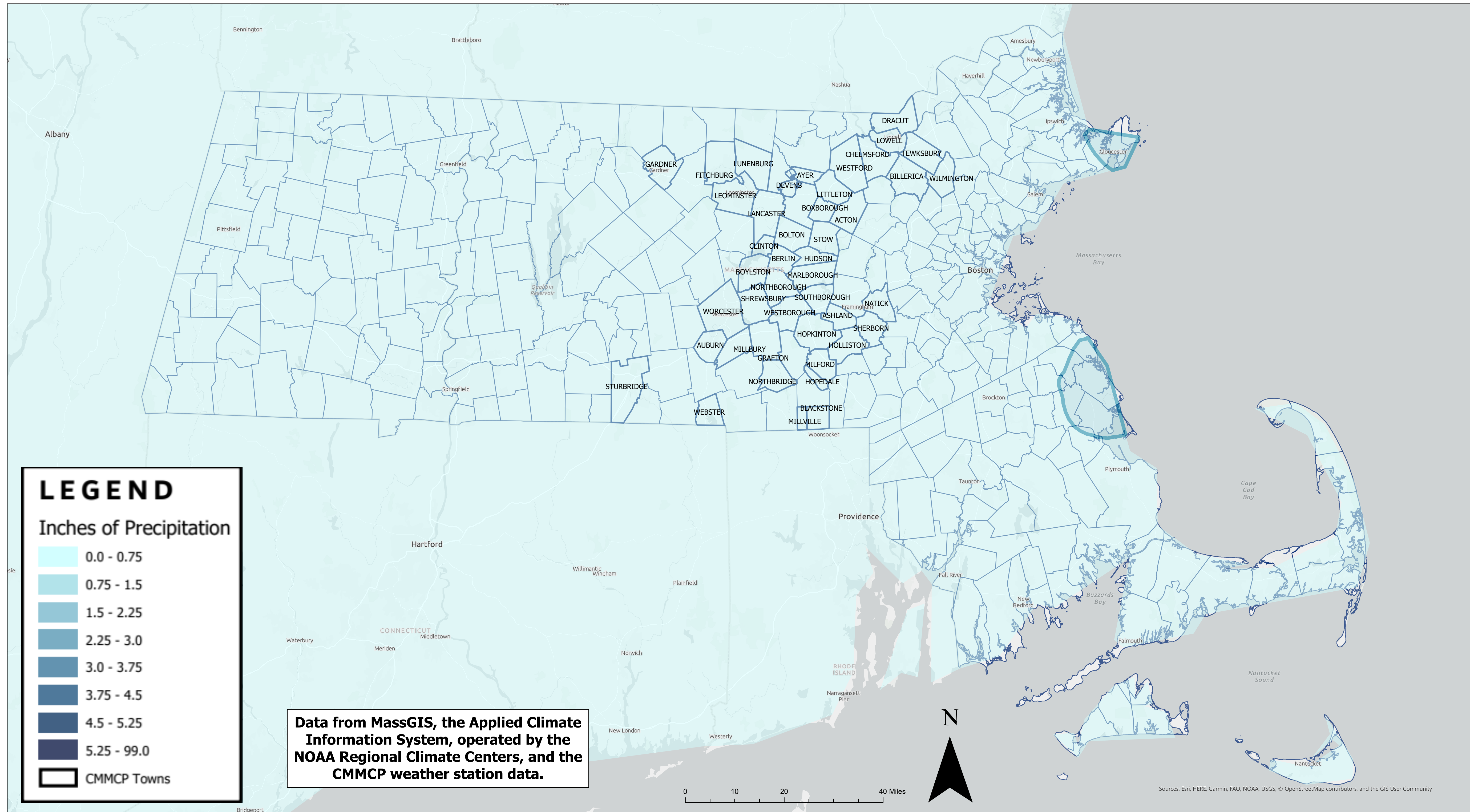
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2023 CMMCP Weekly Rainfall vs. 18 Year Average*



*source: CMMCP weather station Northborough, MA

Precipitation in CMMCP Towns for EPI Week 23 (6/4-6/10/2023)



2023 Rainfall vs. Requests

