

Central Mass. Mosquito Control Project Weekly Report- 6/11/23-6/17/23 EPI Week #24

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	62	30	22	88	115	828
Total Specimens	547	161	66	1607	1873	7144
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Cumulative Surveillance Summary

Weather Summary (Northborough, MA): The weather for this particular week averaged 67.81°F with a recorded high temperature of 86.70°F and a recorded low temperature of only 48.60°F. For this week there was also a total of 0.80 inches of rain observed. Compared to the previous week, it was approximately 11.04°F warmer on average, and rained about 0.66 inches more. There has been 1.00 inch of rain accumulated in June, after 2.04 inches for the month of May.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	+157.3%	+1295%	Billerica, Hopedale, Lowell
Coquillettidia perturbans	+300.0%	-94.66%	Wilmington, Southborough
Culiseta melanura	+800.0%	-89.69%	Hopedale, Tewksbury
Ochlerotatus canadensis	+156.4%	+133.6%	Wilmington, Hopedale, Westford
Culex Species	+190.5%	+107.5%	Worcester, Blackstone, Stow
All Species	+71.20%	-12.44%	Wilmington, Hopedale, Westford

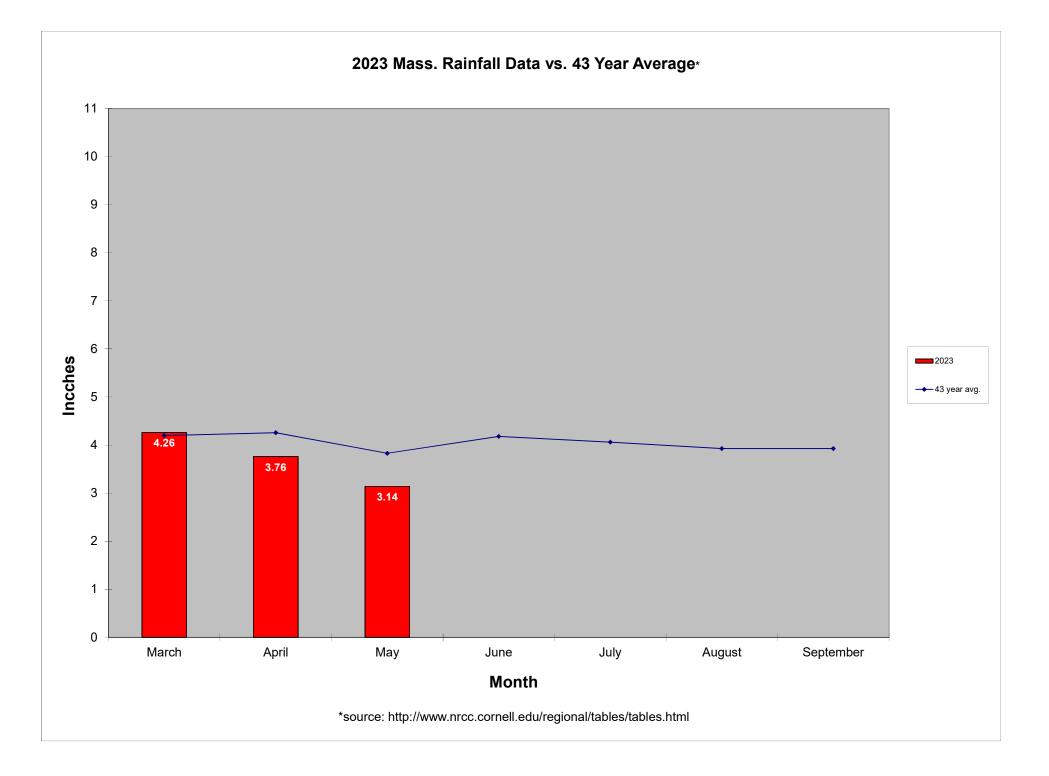
The predominant mosquito for the week was *Culex* followed by *Ochlerotatus canadensis*.

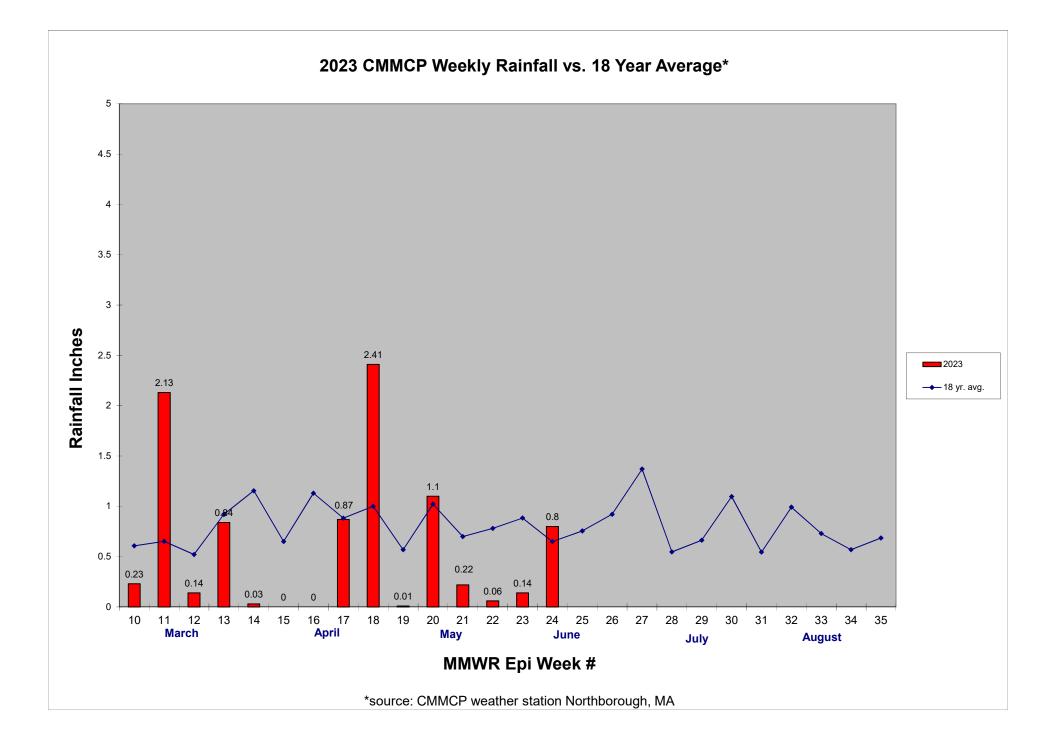
General narrative:

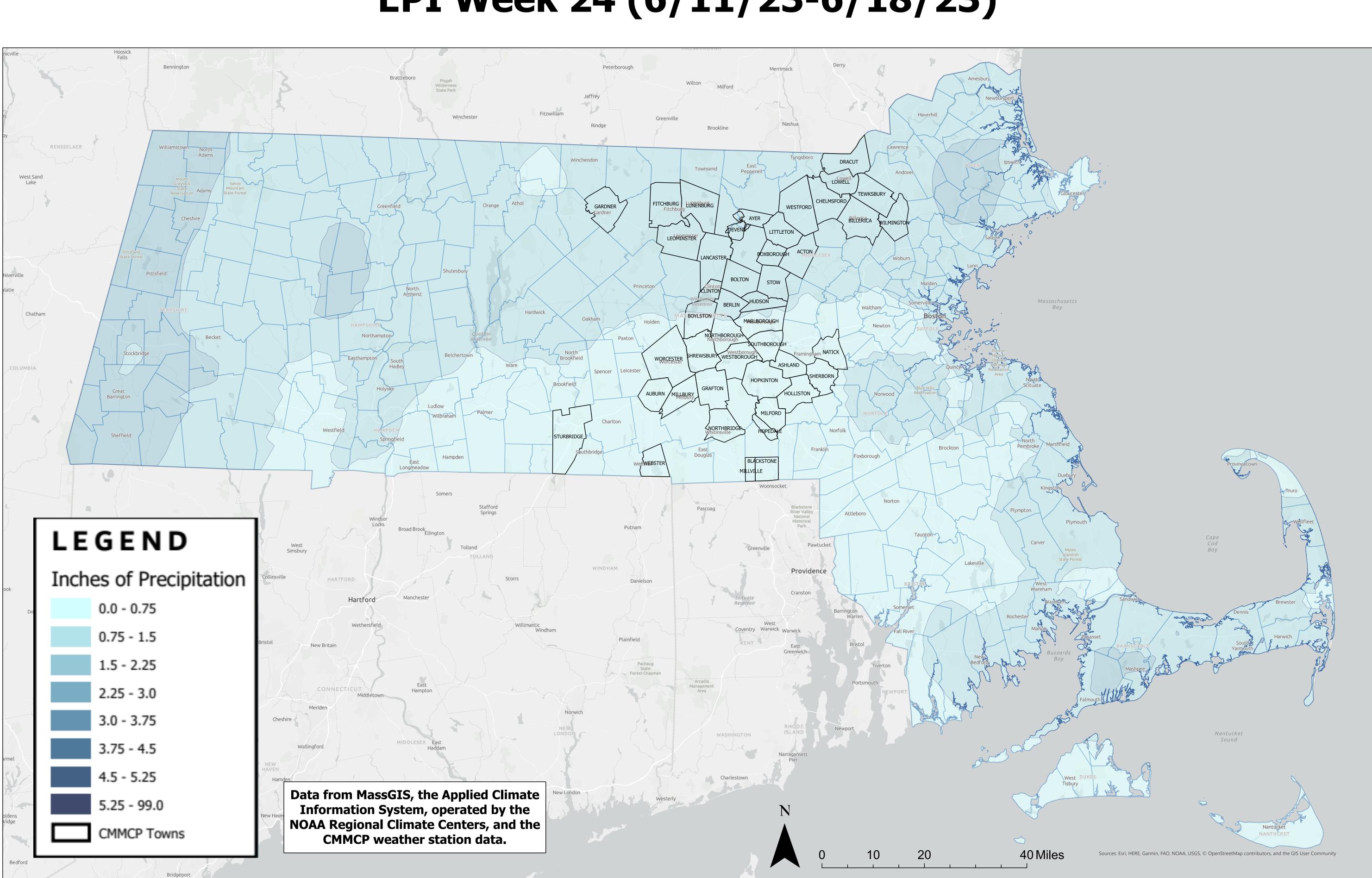
The temperatures for EPI week 24 averaged approximately 11.04°F warmer than the previous week, with 0.80 inches of precipitation observed. Overall surveillance trap collections increased this period compared to the last, with all target species showing increases. *Coquillettidia perturbans* emergence remains much lower than in the previous year. *Culex* was again the most abundant mosquito for the week, followed by *Ochlerotatus canadensis*. Increasing temperatures and the pending emergence of *Coquillettidia perturbans* should contribute to higher collections moving forward. *Aedes albopictus* surveillance using ovitraps has continued, with the first submissions scheduled for next week. All mosquito pools submitted in EPI week 23 to MDPH for arbovirus testing were negative.

Operational notes:

Service requests are 51.9% below the 20-year average and a 47.8% decrease over 2022 numbers to date. We began accepting service requests on May 29 and 2,514 requests have been closed from 3,878 total (54.2% open). Work crews began performing catch basins treatments for *Culex* control on May 22. 7,496 basins were treated in Epi week 24, with 31,130 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.







Precipitation in CMMCP Towns for EPI Week 24 (6/11/23-6/18/23)

