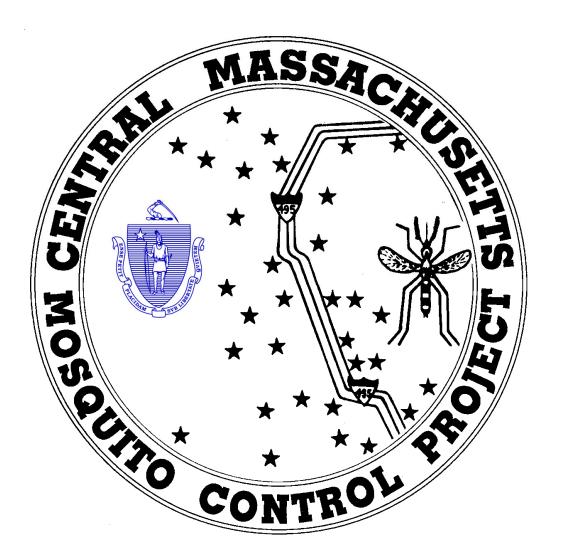
# **CMMCP WEEKLY SURVEILLANCE REPORT**



EPI week #29 July 16-22, 2023

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# Central Mass. Mosquito Control Project Weekly Report- 7/16/23-7/22/23 EPI Week #29

**Cumulative Surveillance Summary** 

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	177	228	29	222	433	2259
<b>Total Specimens</b>	2476	11719	78	4616	11106	36678
No. Pools WNV +	0	0	0	0	1 <sup>†</sup>	1 <sup>†</sup>
No. Pools EEE +	0	0	0	0	0	0

<sup>†</sup>Pool of WNV+ Culex collected in Worcester on 7/7/23

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 74.46°F with a recorded high temperature of 90.50°F and a recorded low temperature of only 60.40°F. For this week there was also a total of 2.75 inches of rain observed. Compared to the previous week, it was approximately 1.30°F cooler on average, and rained about 0.21 inches more. There has been 7.91 inches of rain accumulated in July, after 3.50 inches for the month of June.

# **CMMCP Mosquito Summary-**

l arget Species	ΔFrom	ΔFrom	Predominant Trap Site(s)	
	Last Week	Last Year		
Aedes vexans	-54.72%	+3800%	Gardner, Westborough	
Coquillettidia perturbans	-4.850%	-66.04%	Dracut, Lancaster	
Culiseta melanura	+00.00%	-92.34%	N/A	
Ochlerotatus canadensis	-20.68%	+238.0%	Gardner, Littleton	
Culex Species	-22.47%	+354.2%	Worcester, Westford, Blackstone	
All Species	-3.620%	+1.300%	Dracut, Worcester, Gardner	

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

### General narrative:

The temperatures for EPI week 29 averaged approximately 1.30°F cooler than the previous week, with 2.75 inches of precipitation observed. Overall surveillance trap collections decreased slightly this period compared to the last, with all target species decreasing. Despite the weekly decrease, overall collection numbers are now higher this year compared to the 2022 season. *Coquillettidia perturbans* is now the most abundant mosquito for the week, followed by *Culex*. *Aedes albopictus* surveillance using ovitraps has continued, with 21,006 eggs collected and submitted so far. *Aedes albopictus* was detected through this surveillance at a trap location in Ayer. The CMMCP ATM control protocol was initiated, see details in the operational notes. All mosquito pools submitted in EPI week 28 to MDPH for arbovirus testing were negative.

# Ae. albopictus egg collections:

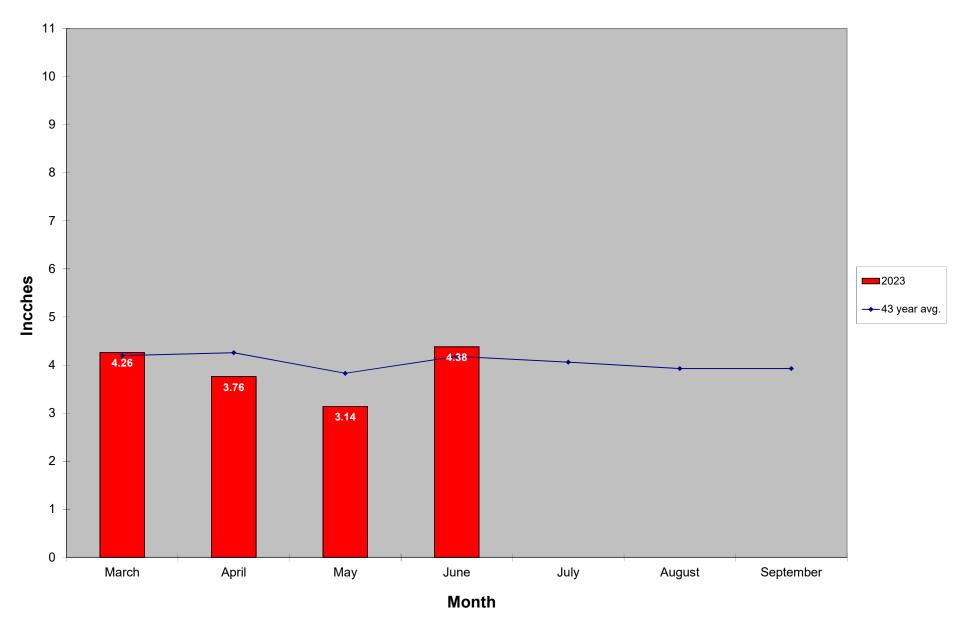
Epi week#	# eggs Collected	Epi week#	# eggs Collected			
23	0	32				
24	0	33				
25	649	34				
26	3,306	35				
27	4,928	36				
28	3,563	37				
29	8,560	38				
30		39				
31		40				
	TOTAL	21,006				
Two ATM detections to date						

## Operational notes:

Service requests are 22.9% below the 20-year average and a 23.9% decrease over 2022 numbers to date. Request numbers increased 29.6% from the week prior. Work crews began performing catch basins treatments for *Culex* control on May 22. 6,672 basins were treated in Epi week 29, with 64,134 catch basins treated to date intended to suppress *Culex* populations and lower risk of transmission from WNV by this species.

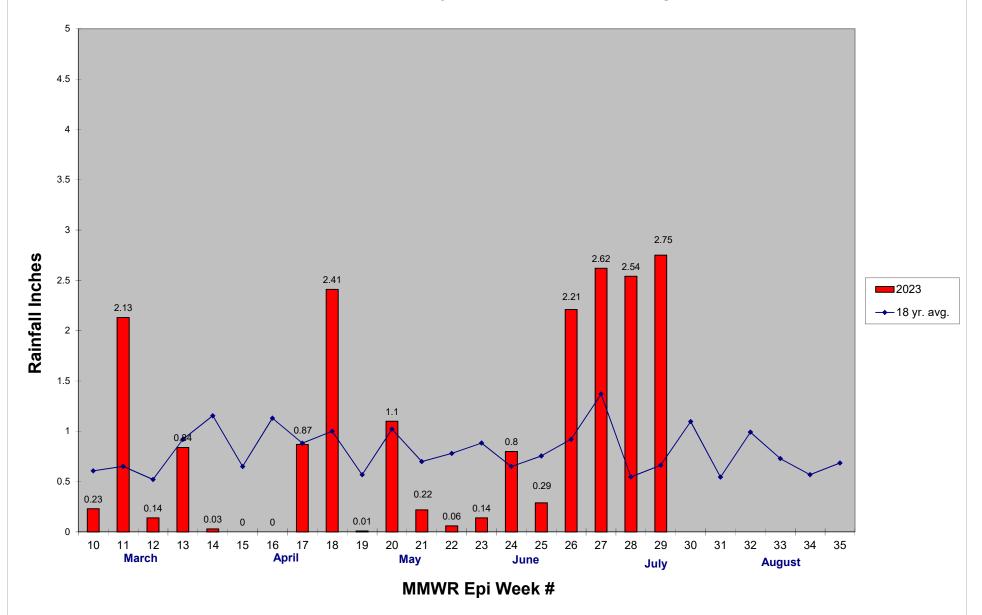
With the confirmation on July 12 of WNV in the Burncoat section of Worcester, CMMCP coordinated with local health officials and the area received ULV spraying on July 18, 2023 after sunset. With the confirmation of *Aedes albopictus* (ATM) in Ayer, we ULV sprayed the area on July 20 and will follow up with another round of ULV spraying on July 24. Filed crews scouted the area on July 21 and noted several areas of larval activity that were treated with Bti. Additional ovitraps as well as light traps were deployed in the area to determine if we have a possible established colony. Larval control will be repeated as necessary.





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





\*source: CMMCP weather station Northborough, MA

# Precipitation in CMMCP Towns for EPI Week 29 (7/16-7/22/23)

