

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #28
July 7-13, 2019

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Central Mass. Mosquito Control Project
Weekly Report- 7/7/19-7/13/19
EPI Week #28

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	55	325	106	180	364	1,847
Total Specimens	317	51,210	777	3,873	4,816	63,961
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 74.34°F with a recorded high temperature of 93.50°F and a recorded low temperature of only 54.60°F. For this week there was also a total of 1.01 inches of rain observed. Compared to the previous week, it was approximately 0.95°F cooler on average, and rained about 0.90 inches less. There has been 2.69 inches of rain accumulated in July, after 3.04 inches for the month of June.

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>	+500.0%	+127.1%	Natick, Hudson, Stow
<i>Coquillettidia perturbans</i>	+259.8%	+130.4%	Westford, Sturbridge, Holliston
<i>Culiseta melanura</i>	-14.71%	+872.5%	Millville, Marlborough, Gardner
<i>Ochlerotatus canadensis</i>	+164.6%	+121.4%	Tewksbury, Hopedale
<i>Culex</i> Species	-11.72%	-73.37%	Hopedale, Berlin
All Species	+235.2%	+41.82%	Westford, Sturbridge, Holliston

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

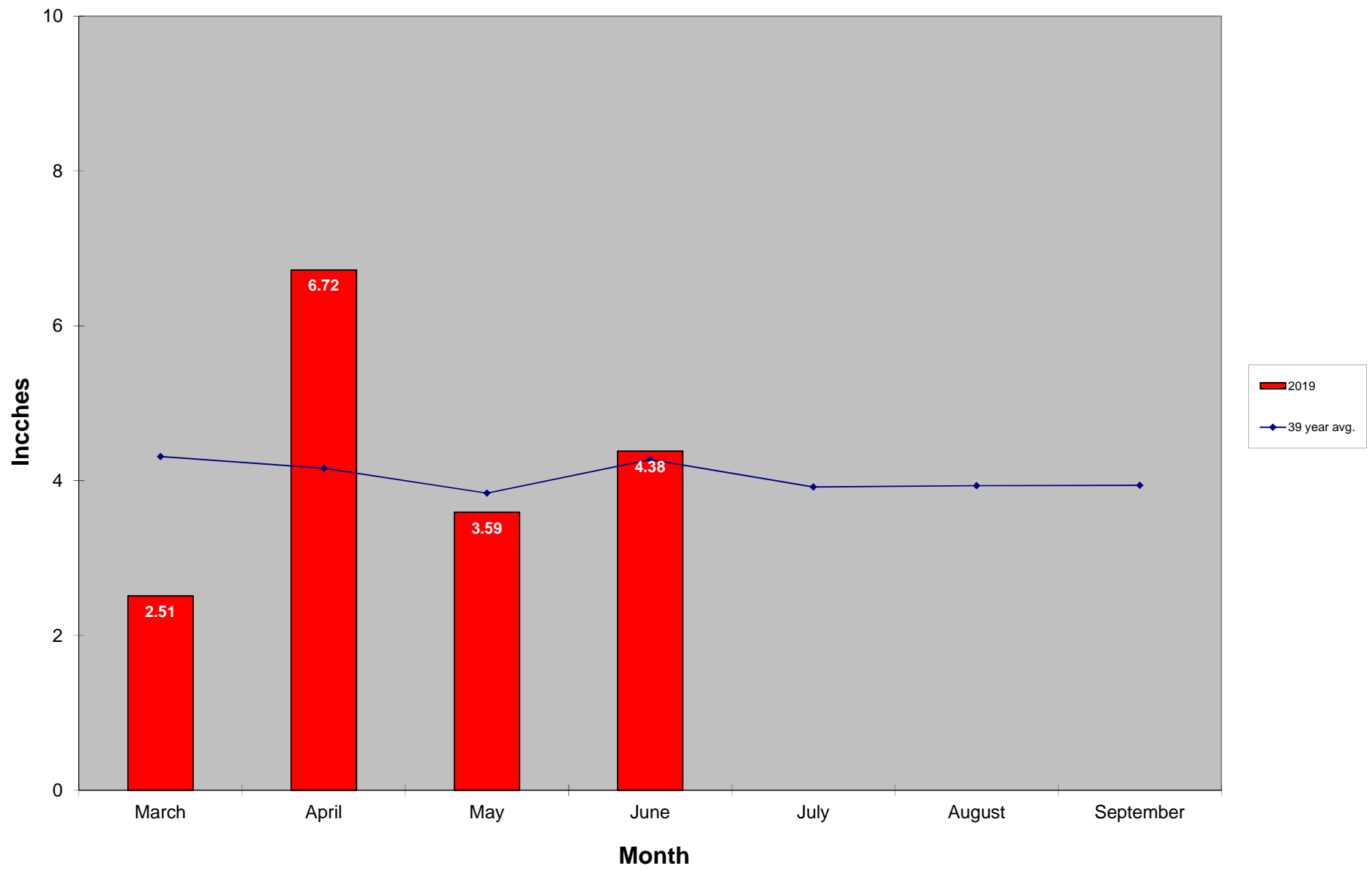
General statement: The temperatures for EPI week 28 averaged approximately 0.95°F cooler than the previous week, with 1.01 inches of precipitation observed. The only target mosquitoes that did not experience significant increases this week were *Culiseta melanura* and *Culex*. *Coquillettidia perturbans* was once again the most abundant mosquito species for the week, followed by *Culex*. Continued emergence of *Coquillettidia perturbans* should contribute to higher overall collections moving forward. All target species have all been collected in higher numbers this year compared to last, except for *Culex*. There have been zero mosquito pools from the CMMCP service area that have tested positive for mosquito-borne disease. Thirty-five egg papers, containing 3,527 eggs, were collected for *Aedes albopictus* surveillance during EPI week 28. No identifications of this invasive species have been confirmed to date.

Service requests are 60.6% greater than the 16 year average (7,121 vs. 11,437) but 10.2% lower than 2018 numbers (12,612 vs. 11,437). Service requests increased 8.4% from Epi week 27 to 28 (878 vs. 952). 1,438 service requests were closed out in EPI week 28; 9,625 have been closed to date from a total of 11,404 received (18.4% open). Work crews have been performing catch basins treatments in all member communities for *Culex* control. 7,505 catch basins were treated in Epi week 28, bringing the total for the year to 68,510.

***Aedes albopictus* Surveillance Data**

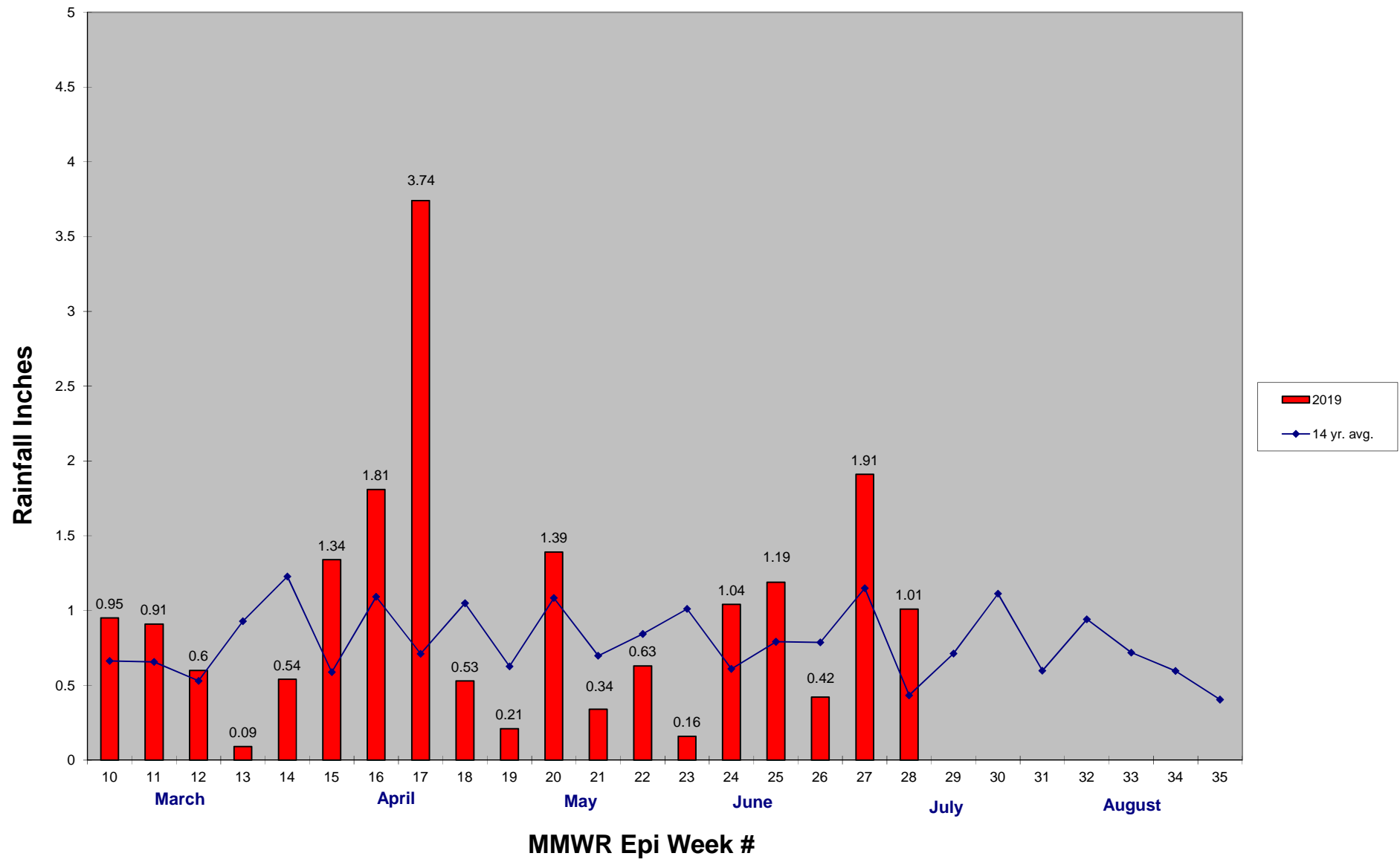
	# Ovitrap	# Eggs
EPI Week #22	31	4
EPI Week #23	21	221
EPI Week #24	33	530
EPI Week #25	37	1,294
EPI Week #26	37	1,100
EPI Week #27	-	-
EPI Week #28	35	3,527

2019 Mass. Rainfall Data vs. 39 Year Average*



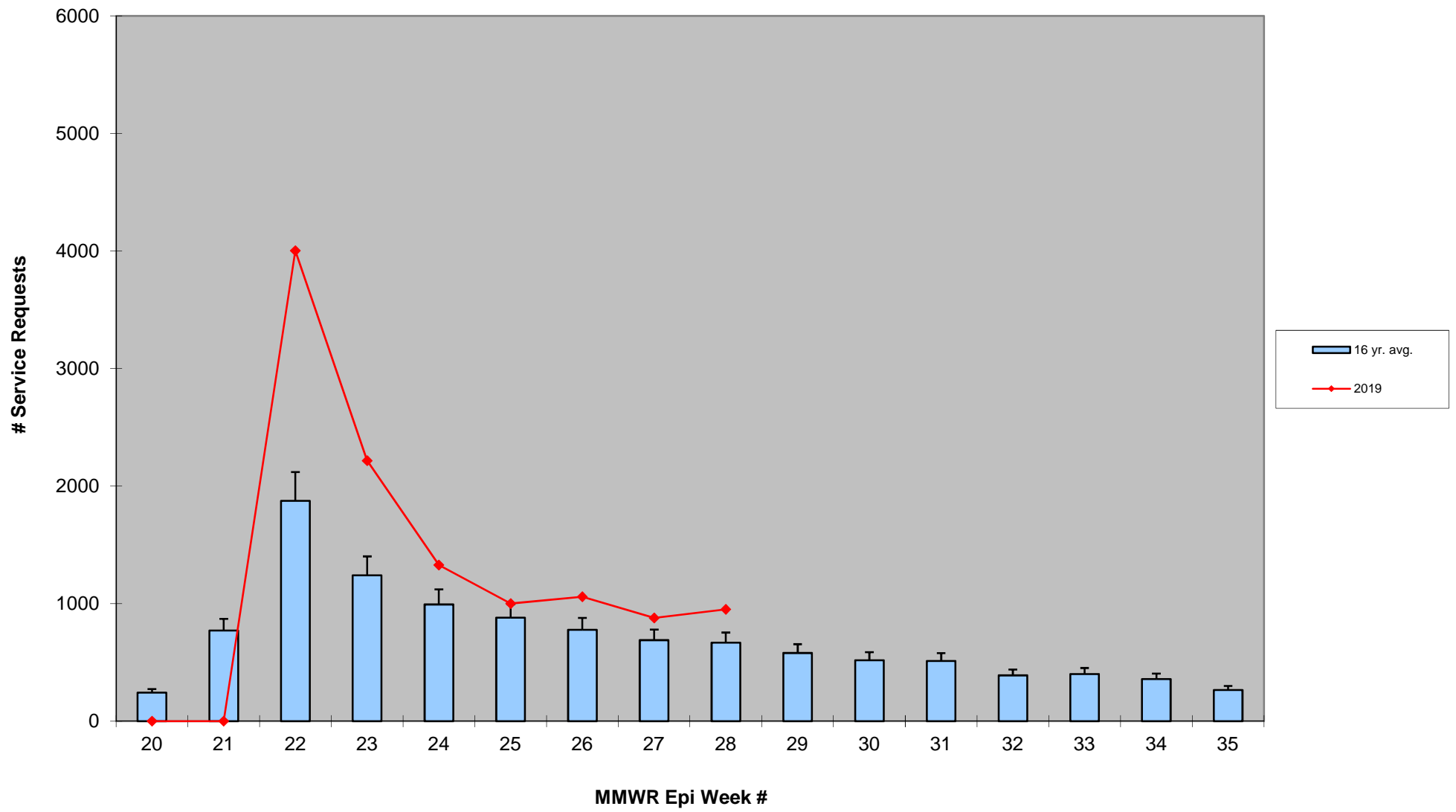
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2019 CMMCP Weekly Rainfall vs. 14 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2019



2019 Rainfall vs. Requests

