

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #24
Jun. 11-17, 2017

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Central Mass. Mosquito Control Project
Weekly Report- 6/11/17-6/17/17
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	13	15	12	67	75	466
Total Specimens	42	105	39	1008	1068	3934
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 72.00°F with a recorded high temperature of 96.20°F and a recorded low temperature of only 48.90°F. For this week there was also a total of 0.06 inches of rain observed. Compared to the previous week, it was approximately 12.16°F warmer on average, and rained about 0.05 inches more. There has been 0.09 inches of rain accumulated in June, after 4.68 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>	+ ∞	+ ∞	Gardner, Southborough
<i>Coquilleltidia perturbans</i>	+ ∞	-94.04%	Billerica
<i>Culiseta melanura</i>	+1200%	+160.0%	Holliston
<i>Ochlerotatus canadensis</i>	+ ∞	-9.92%	Hopkinton, Boylston
<i>Culex</i> Species	+3250%	+6600%	Sturbridge, Hudson
All Species	+2942%	-48.80%	Hopkinton, Blackstone

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

*Low early season numbers may contribute to these comparisons being not as significant as they appear

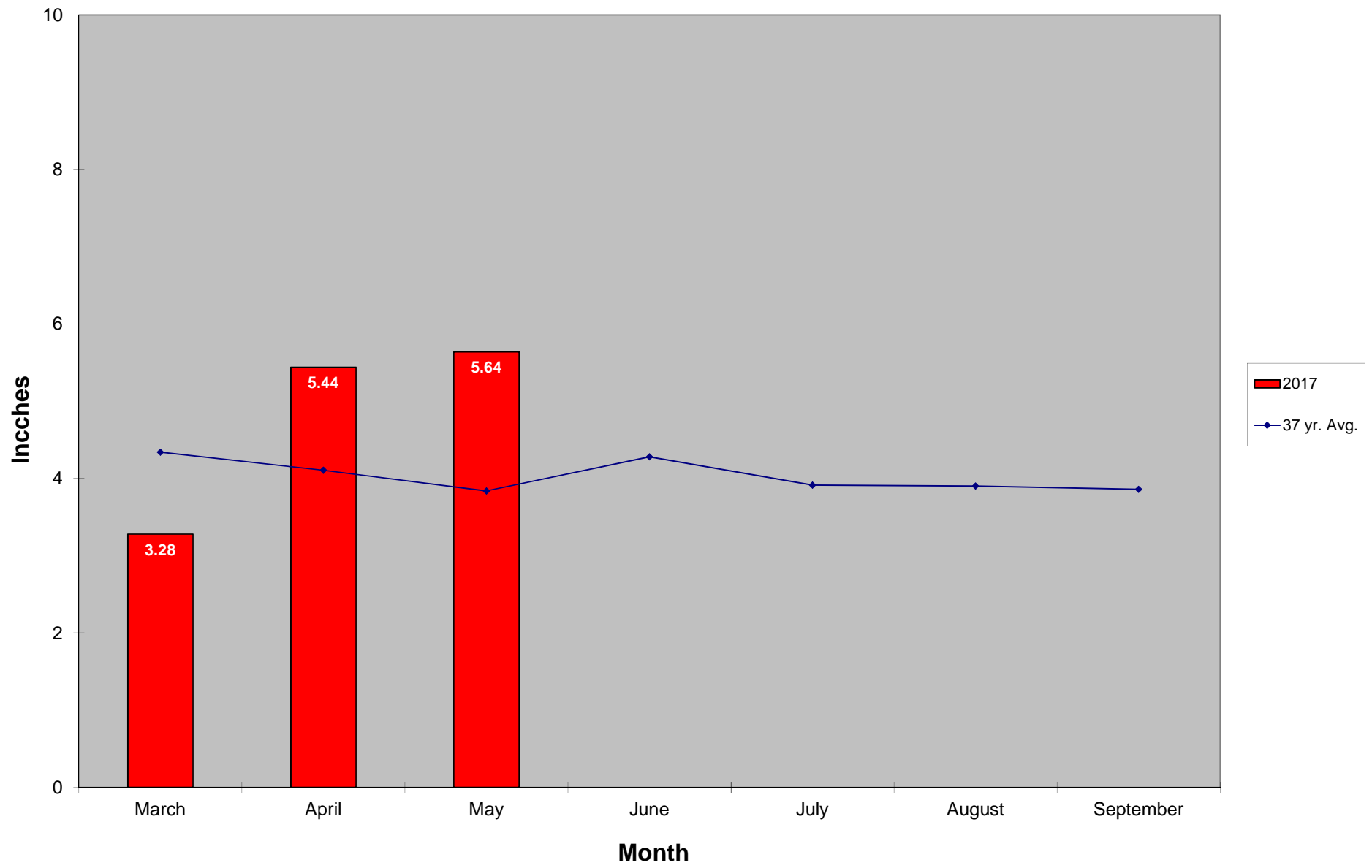
Week 24 Narrative:

The temperatures for EPI week 24 averaged approximately 12.16 degrees warmer than the previous week, with only 0.06 inches of precipitation observed. Overall collection numbers were significantly higher than EPI week 23, but lower than last season for the long-term historical trap sites. All target species experienced significant increases this week. *Culex* species was the most abundant mosquito, followed by *Ochlerotatus canadensis*. *Coquilleltidia perturbans* has now been collected in the CMMCP surveillance traps and should continue to increase over the next several weeks. Overall collections numbers should also increase because of this additional *Cq. perturbans* emergence.

We have received 259% more service requests than the 15 year average (8,873 in 2017 v. 3,427 15 yr. avg.), and 1.5% more than this time in 2016 (8,873 in 2017 v. 8,738 in 2016). The standard adulticiding program is underway but rain and cool temperatures have cancelled some spray operations.

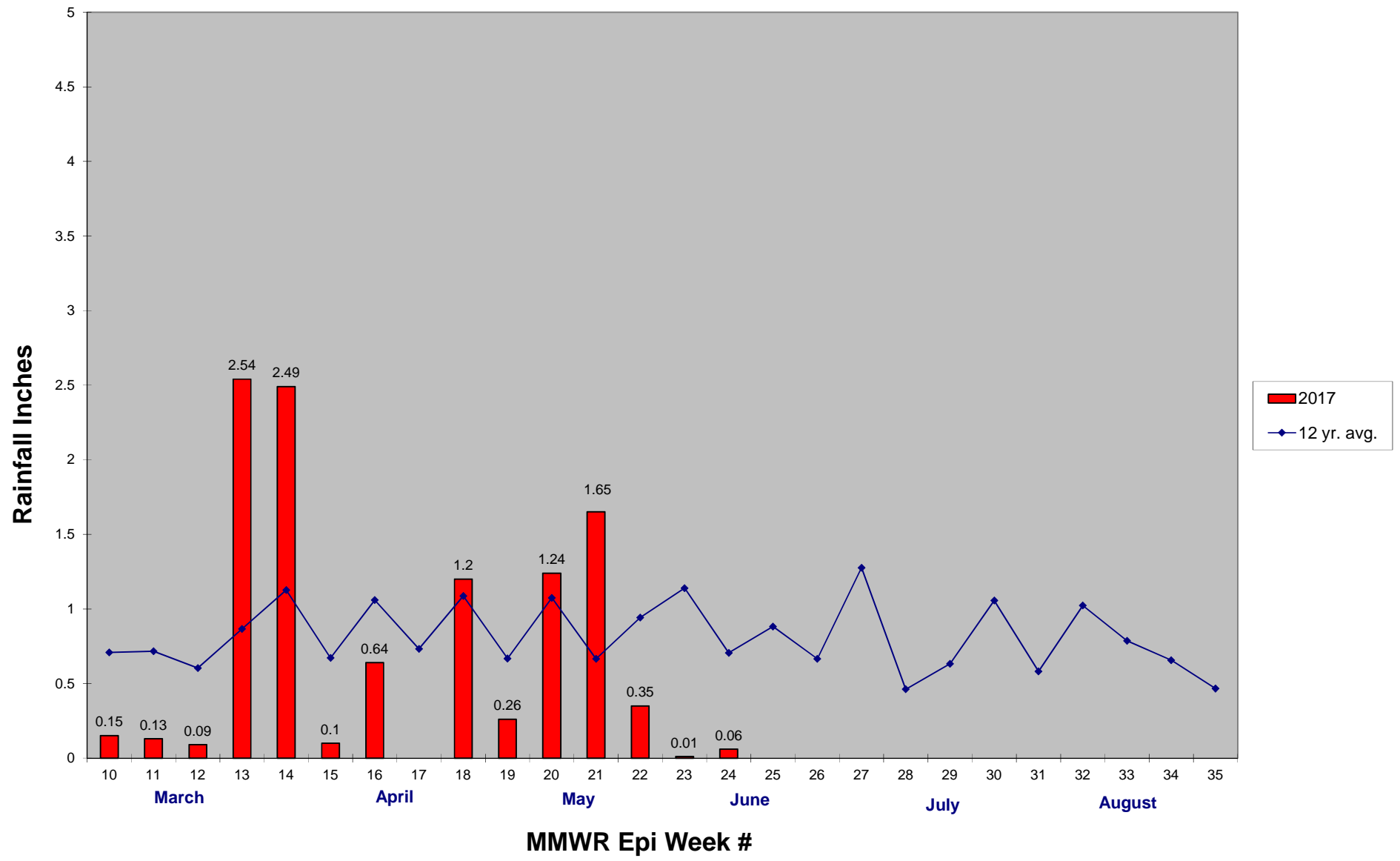
Early season catch basin treatments totaling 28,308 have ended in all member communities. We applied in last year's WNV areas and continued into our urban centers. Standard in-season treatments will begin in a few weeks. Our tire program is on hiatus, but we collected 1,432 tires so far this year. Our ditch maintenance and beaver mitigation programs are also on hiatus but a few projects are planned for this summer.

2017 Mass. Rainfall Data vs. 37 Year Average*



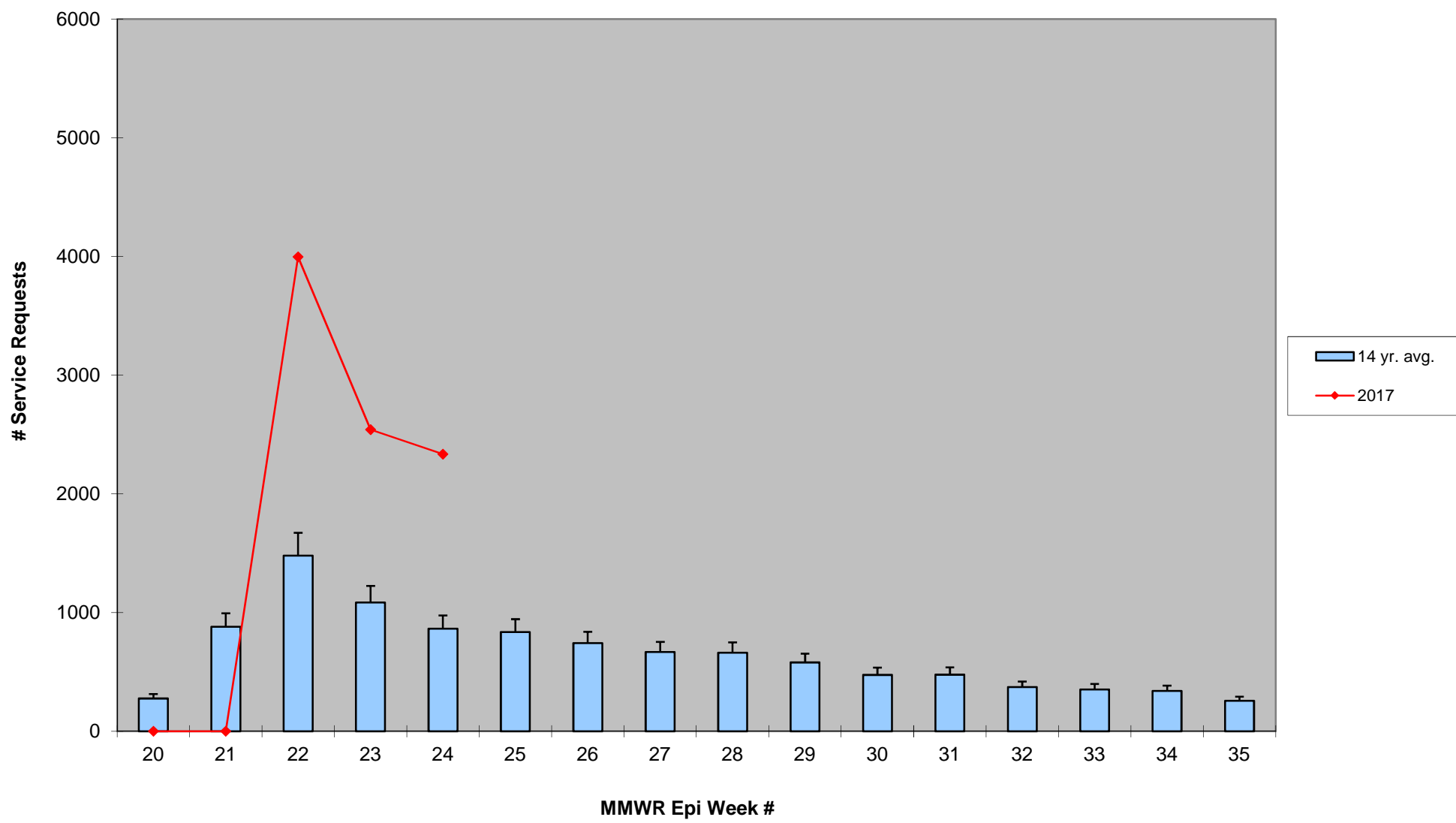
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2017 CMMCP Weekly Rainfall vs. 12 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2017



2017 Rainfall vs. Requests

