

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #23**  
**Jun. 4-10, 2017**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 6/4/17-6/10/17**  
**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	4	1	8	29	19	206
Total Specimens	15	1	26	424	140	1503
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 59.84°F with a recorded high temperature of 85.70°F and a recorded low temperature of only 45.40°F. For this week there was also a total of 0.01 inches of rain observed. Compared to the previous week, it was approximately 1.05°F warmer on average, and rained about 0.34 inches less. There has been 0.03 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>	+00.00%	+00.00%	N/A
<i>Coquillettidia perturbans</i>	+00.00%	-100.0%	N/A
<i>Culiseta melanura</i>	+100.0%	-91.67%	Tewksbury, Stow
<i>Ochlerotatus canadensis</i>	-78.57%	-99.39%	Chelmsford, Natick
<i>Culex</i> Species	+100.0%	+200.0%	Hopedale, Webster
All Species	-66.44%	-96.04%	Chelmsford

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

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

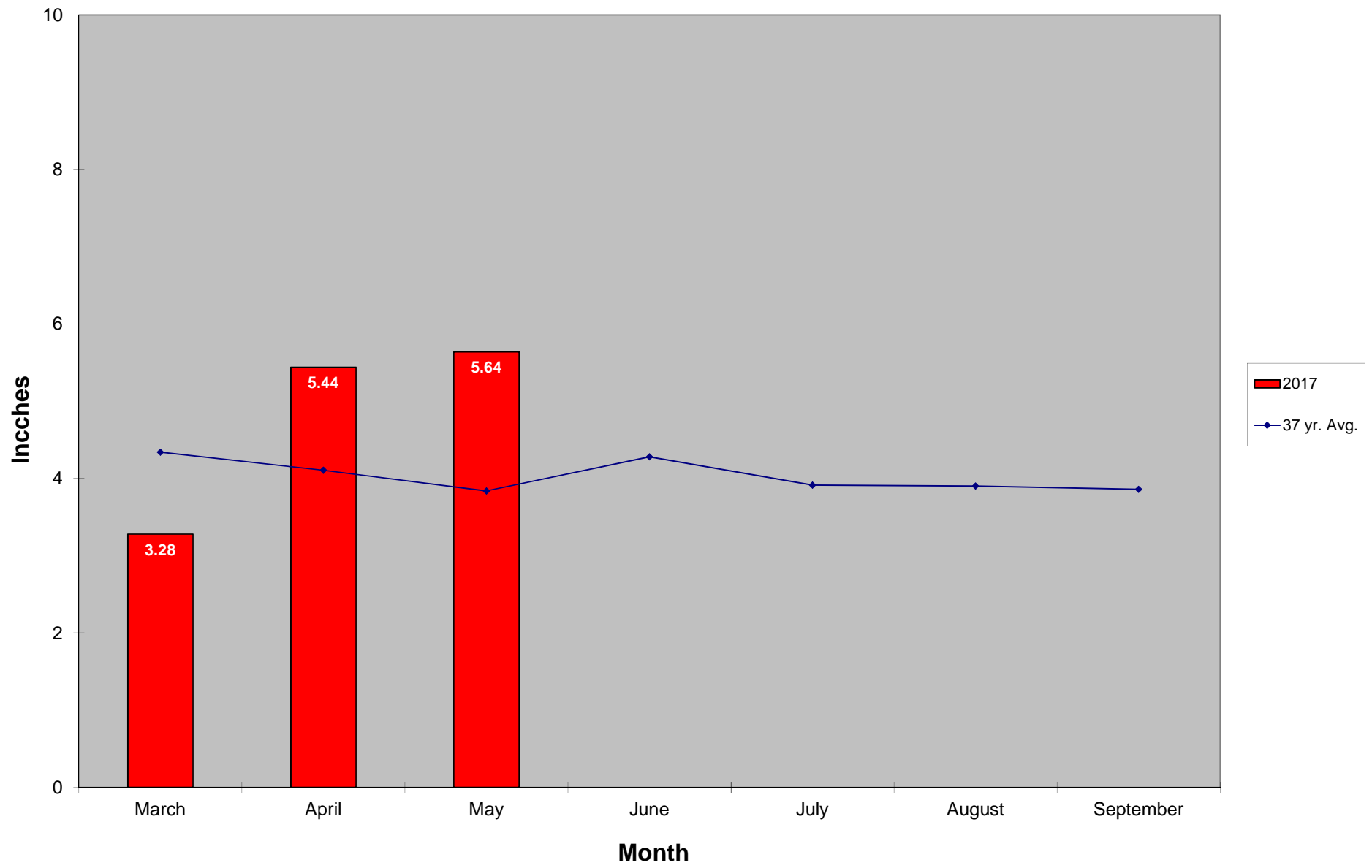
**Week 23 Narrative:**

The temperatures for EPI week 23 averaged approximately 1.05 degrees warmer than the previous week, with 0.01 inches of precipitation observed. Overall collection numbers were lower than EPI week 22, and also lower than last season for the long-term historical trap sites. *Culiseta melanura* and *Culex spp.* experienced increases this week. *Ochlerotatus canadensis* was the most abundant species, followed by *Ochlerotatus abserratus*. *Coquillettidia perturbans* should begin to be collected in the CMMCP surveillance traps. Overall collections numbers will increase with additional emergence along with the high temperatures anticipated for EPI week 24.

During our first 2 weeks we received 255% more service requests than the 15 year average (6,539 in 2017 v. 2,564 15 yr. avg.), but 16.3% less than this time in 2016 (6,539 in 2017 v. 7,611 in 2016). The standard adulticiding program began June 5 but weather (rain and cool temps) cancelled the first 2 night's applications. 7 crews came in for overtime on Friday night to make up some of the backlog.

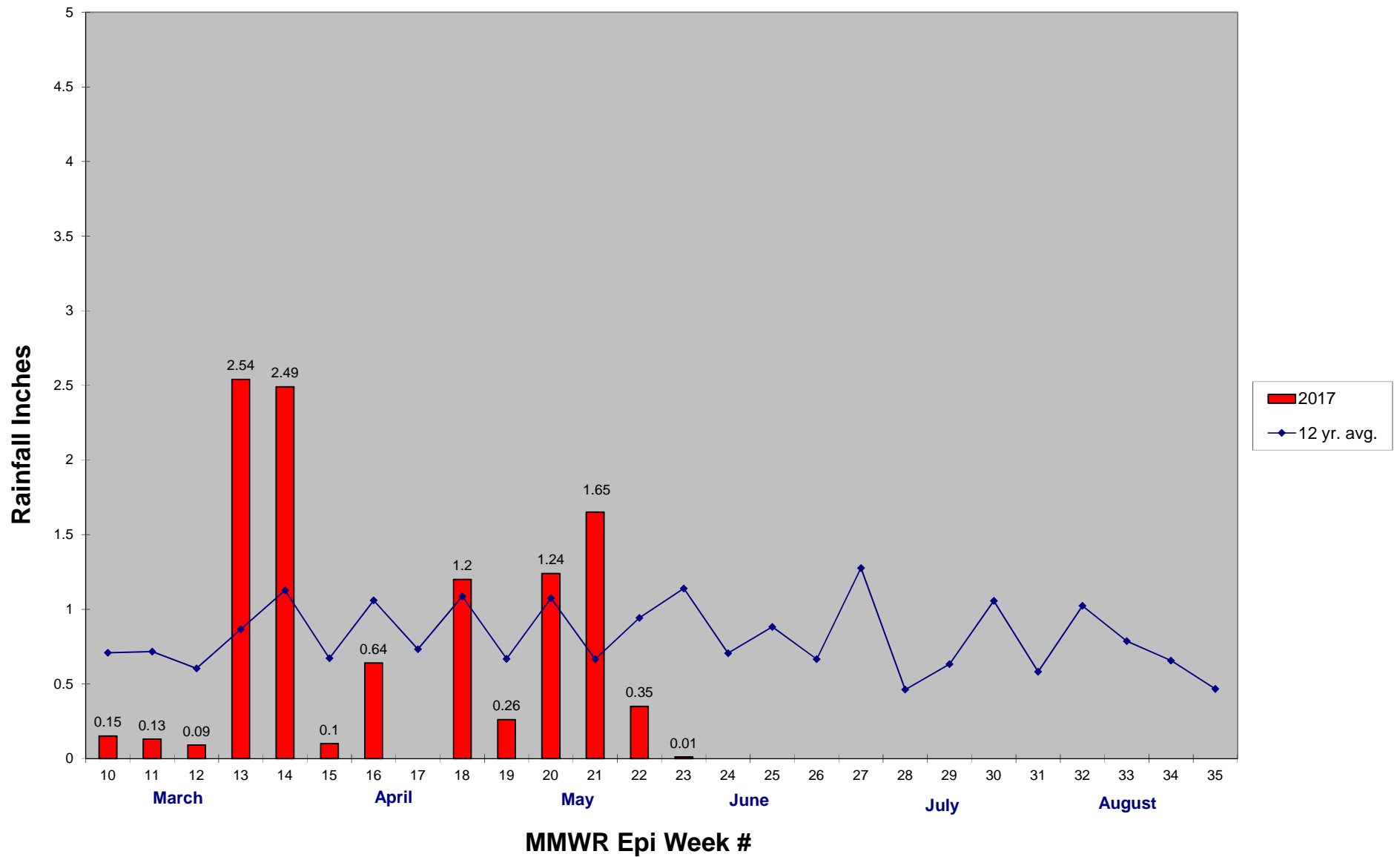
Early season catch basin treatments totaling 28,308 have ended in all member communities. We applied in last year's WNV areas and continued into our urban centers. Standard in-season treatments will begin in a few weeks. Our tire program is on hiatus, but we collected 1,432 tires so far this year. Our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



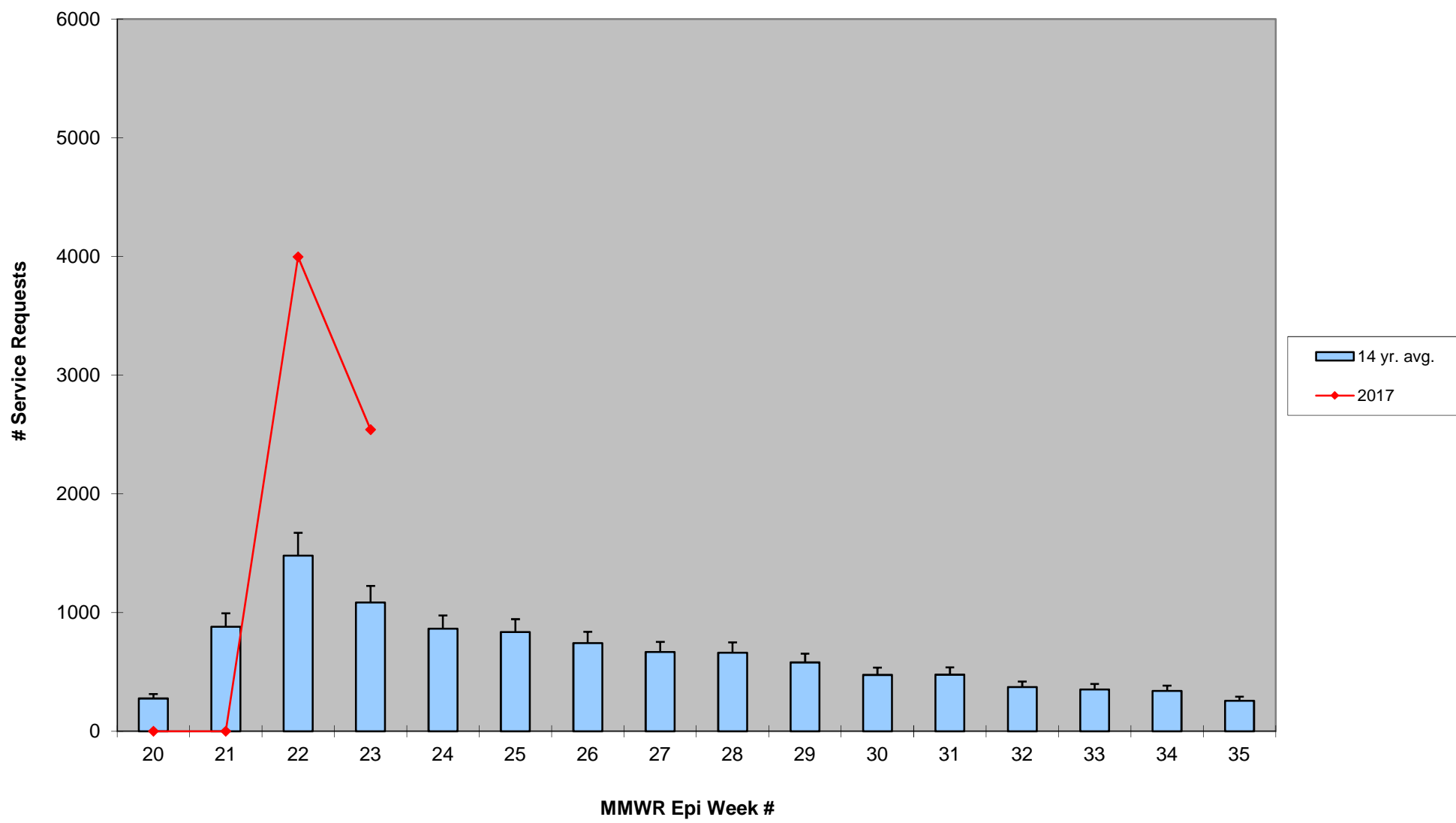
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

