

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #26**  
**Jun. 26 – Jul. 2, 2016**

**Frank Cornine, *Field Biologist***  
**Curtis Best, *Staff Entomologist***  
**Tim McGlinchy, *Director of Operations***  
**Tim Deschamps, *Executive Director***

**Central Mass. Mosquito Control Project**  
**Weekly Report- 6/26/16-7/2/16**  
**EPI Week #26**

**Cumulative Surveillance Summary**

<b>Target Species</b>	<b><i>Ae. vex</i></b>	<b><i>Cq. per</i></b>	<b><i>Cs. mel</i></b>	<b><i>Oc. can</i></b>	<b><i>Culex</i></b>	<b>All Species</b>
<b>No. Pools</b>	1	153	14	57	127	464
<b>Total Specimens</b>	5	19761	438	3025	2605	29661
<b>No. Pools WNV +</b>	0	0	0	0	0	0
<b>No. Pools EEE +</b>	0	0	0	0	0	0

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 72.09°F with a recorded high temperature of 89.20°F and a recorded low temperature of only 54.90°F. There was only 0.12 inches of precipitation observed this week. Compared to the previous week, it was approximately 2.99°F warmer on average, and rained 0.05 inches more. There has been 0.07 inches of rain accumulated in July, after 1.32 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>	-100.0%	-100.0%	N/A
<i>Coquillettidia perturbans</i>	+210.1%	+3954%	Webster, Berlin, Leominster
<i>Culiseta melanura</i>	+165.9%	+4580%	Tewksbury, Holliston
<i>Ochlerotatus canadensis</i>	+8.250%	+1622%	Webster, Berlin
<i>Culex</i> Species	-38.17%	+376.5%	Holliston, Hopedale, Millville
All Species	+156.8%	+3289%	Webster, Berlin, Leominster

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

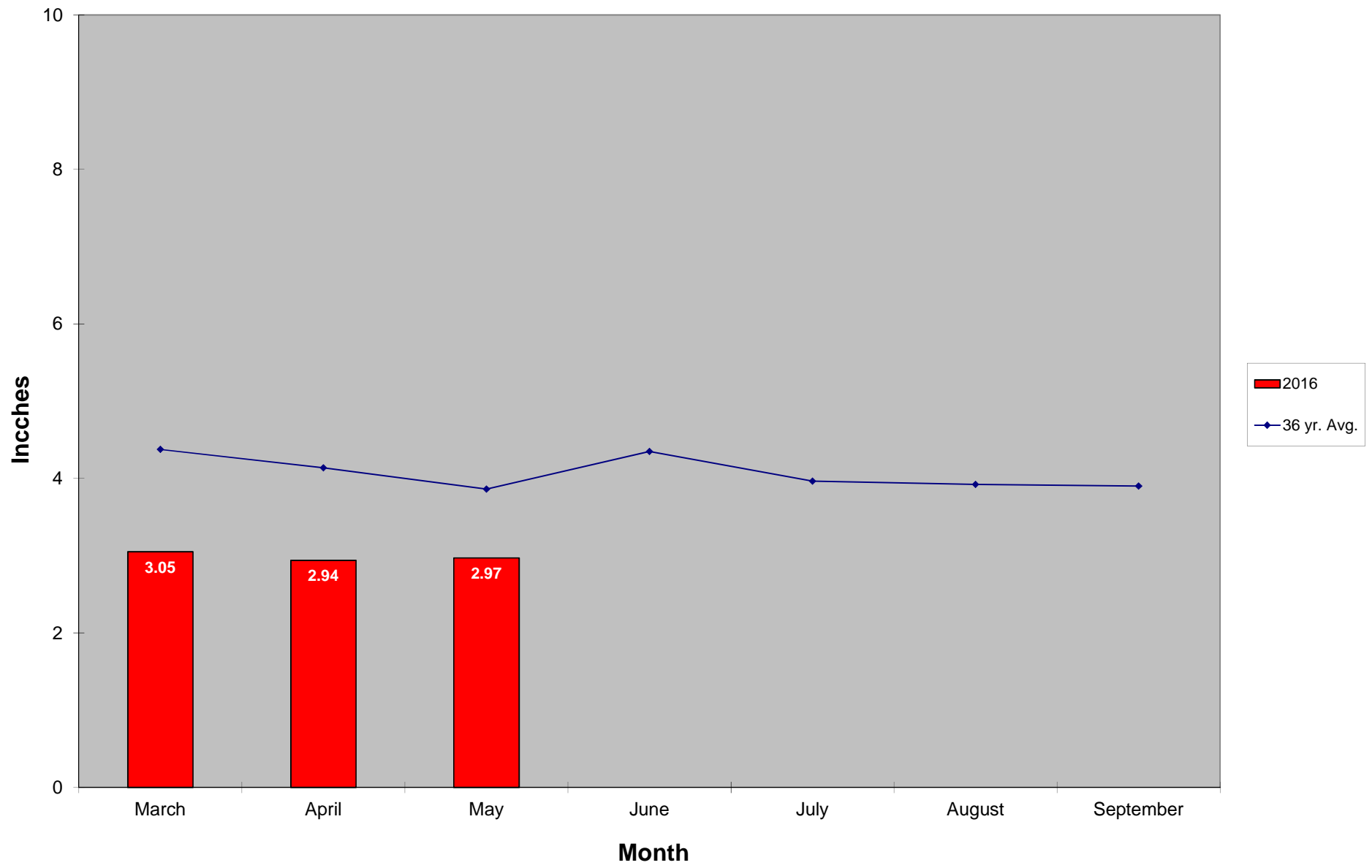
\*Low early season numbers may contribute to these comparisons being not as significant as they appear

The temperatures for EPI week 26 averaged approximately 2.99 degrees warmer than the previous week, with only 0.12 inches of precipitation observed. Overall collection numbers increased by 156.8% from EPI week 25. All target species displayed increases from the prior collection period except for *Culex spp.* and *Aedes vexans*. *Culiseta melanura* and *Coquillettidia perturbans* experienced the largest weekly increases. *Cq. perturbans* remains the most abundant species in the CMMCP service area, with *Ochlerotatus canadensis* now becoming the second most abundant. *Cq. perturbans* will likely remain the predominant species for the majority of the season. Despite the large population currently, this species may still experience further emergence. After observing the first *Aedes vexans* specimens of the season last week, none were found this collection

period. The CMMCP service area has still not recently experienced any significant rain events.

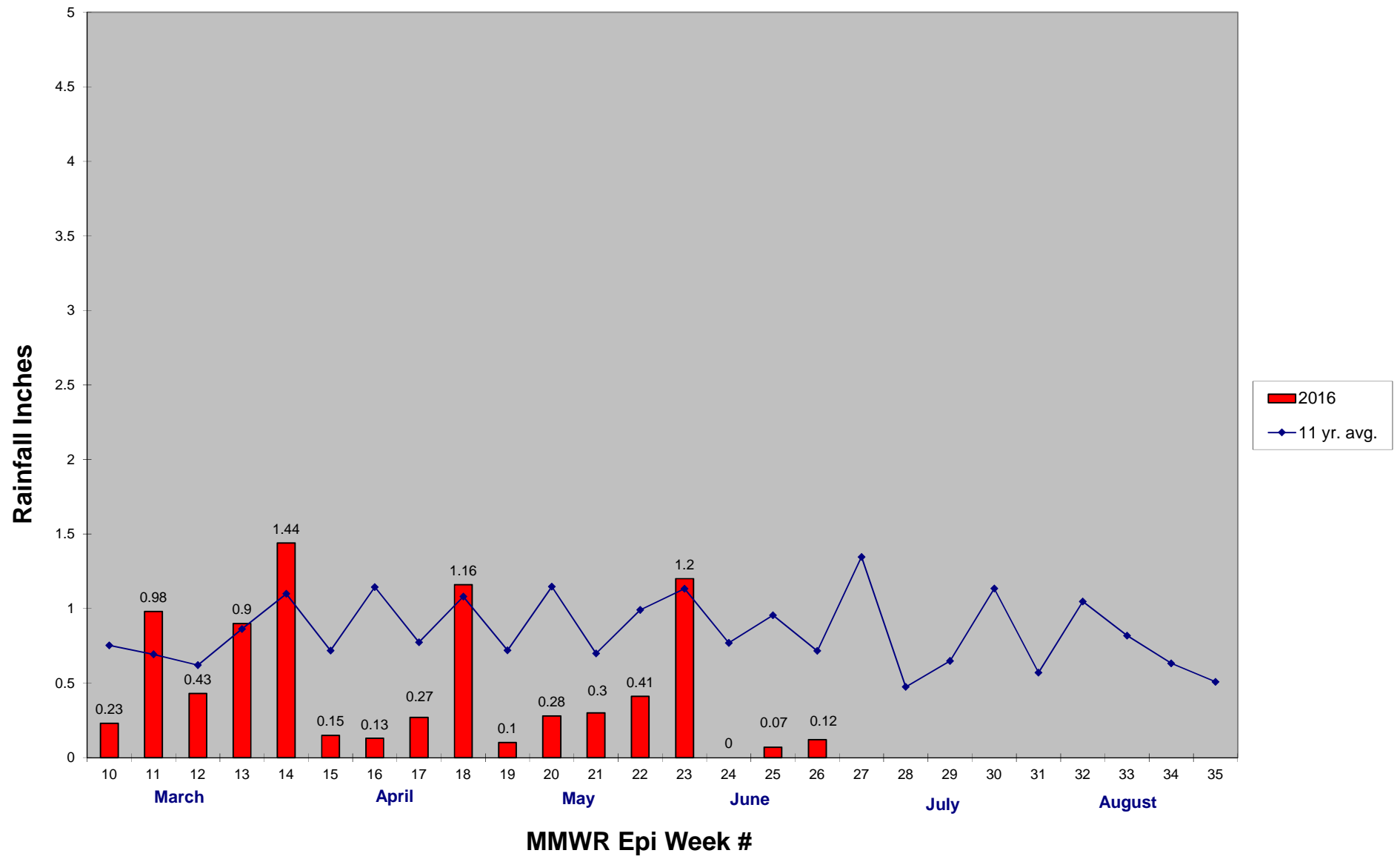
For the year we received 186% more service requests than average; 10,810 requests compared to the 13 year average of 5,804. Service requests decreased slightly (1.9%) from last week 1,046 in Epi week 25 compared to 1,026 in Epi week 26. Early season catch basin treatments were performed in 2015 WNV virus areas, as well as in our inner cities, totaling 23,538. Basin treatments will continue in a few weeks. Our tire collection and ditch maintenance programs are currently on hiatus.

### 2016 Mass. Rainfall Data vs. 36 Year Average\*



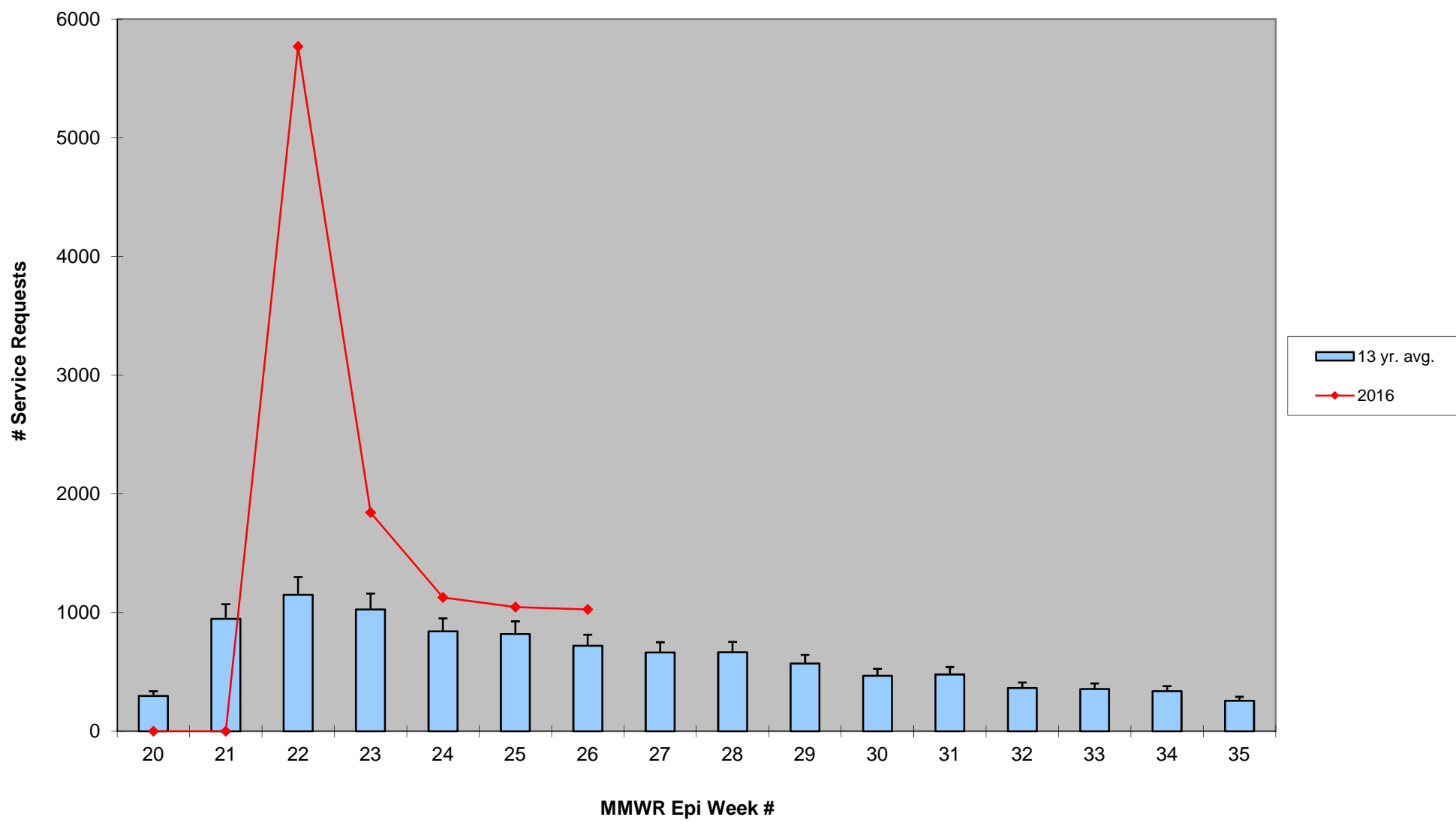
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 2016 CMMCP Weekly Rainfall vs. 11 Year Average\*



\*source: CMMCP weather station Northborough, MA

### ULV Service Request History Comparison 2003-2016



2016 Rainfall vs. Requests

