

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #23
June 7-13, 2015

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Central Mass. Mosquito Control Project
Weekly Report- 6/7/15-6/13/15
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	10	15	24	49	59	407
Total Specimens	46	244	313	1172	176	6751
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 69.4°F with a recorded high temperature of 87.1°F and a recorded low temperature of only 42.6°F. For this week there was also a total of 0.61 inches of rain observed. Compared to the previous week, it was approximately 12.63°F warmer on average, and rained about 2.70 inches less. There has been 2.19 inches of rain accumulated in June, after 1.97 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%	Boxborough
<i>Coquillettidia perturbans</i>	+700.0%	+250.0%	Chelmsford, Milford
<i>Culiseta melanura</i>	-94.79%	-68.75%	Acton, Boylston
<i>Ochlerotatus canadensis</i>	+5900%	+36.36%	Webster, Chelmsford
<i>Culex</i> Species	-61.11%	+16.67%	Webster
All Species	-27.27%	-33.33%	Chelmsford, Acton

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

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

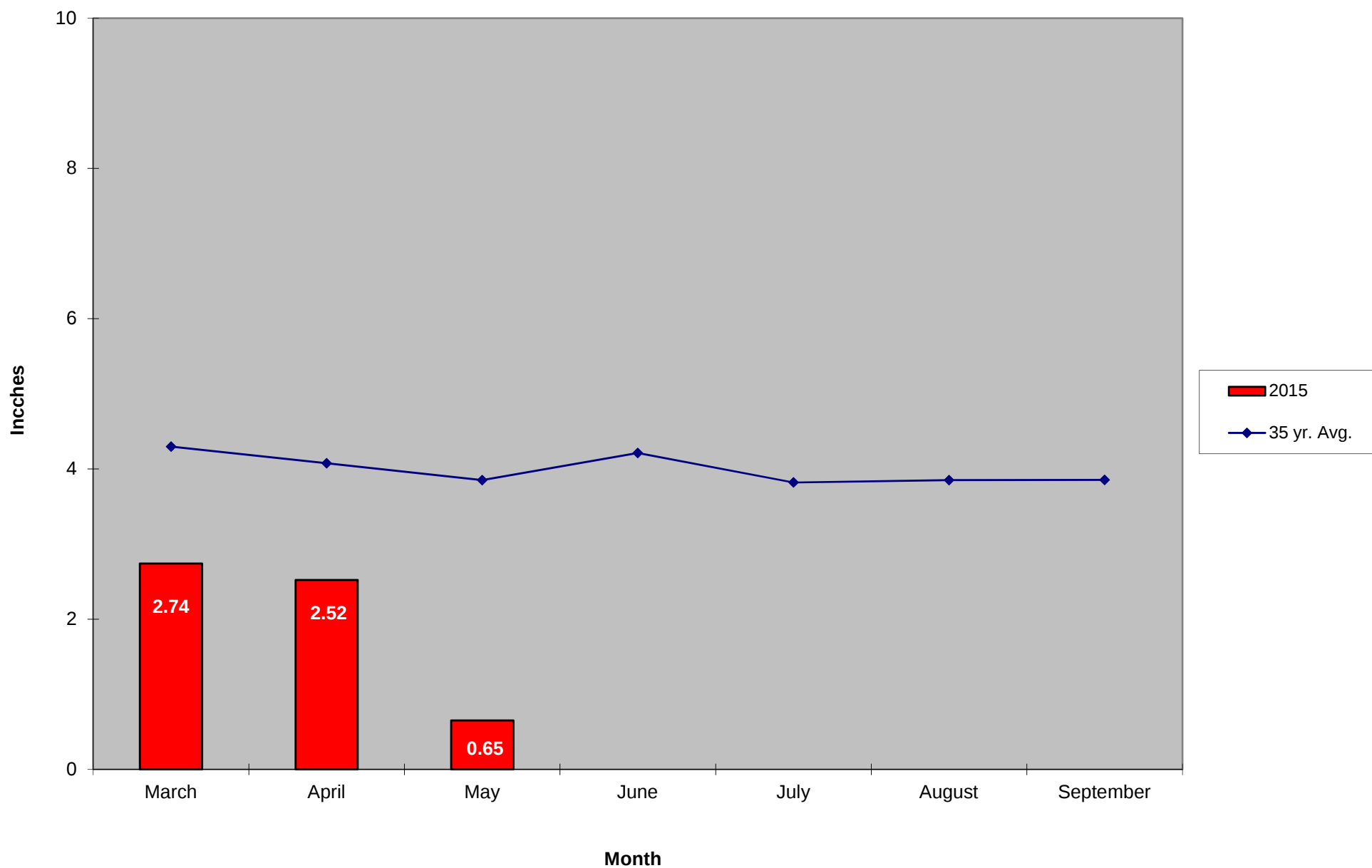
General Narrative

The temperatures for EPI week 23 averaged approximately 13 degrees warmer than the previous week, with 0.61 inches of precipitation observed. Overall collection numbers were higher than EPI week 22, although the opposite was true for the long-term historical trap sites. *Ochlerotatus canadensis* was the most abundant species, followed now by *Coquillettidia perturbans*, which continues to experience weekly increases. *Culiseta melanura* and *Culex* spp. experienced decreases following a surge the week prior. Overall collections numbers should continue to increase with further emergence of *Cq.*

perturbans in the CMMCP service area. Flood water species may also begin to be observed a result of the large rain events at the end of May.

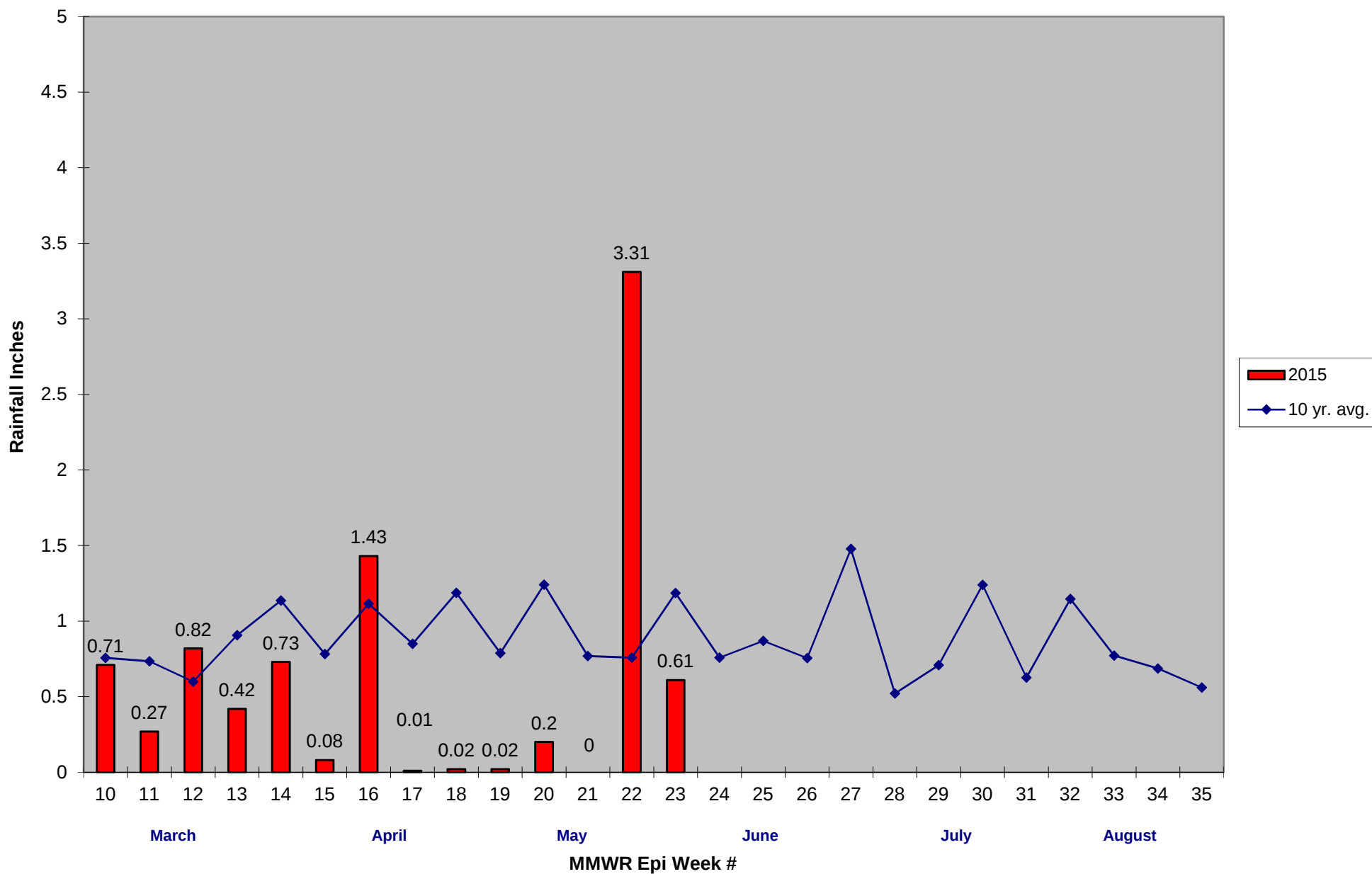
For the year we have received 301% more service requests than average; 8,155 requests to date compared to the 12 year average of 2,704. Requests were 190% more than the 2014 totals for the same time frame, 4,271 in 2014 against 8,155 in 2015. Service requests decreased 151% from EPI week 22 to Epi week 23 for 2015 (2,156 vs. 1,421). 2,056 service calls were completed this week despite thunderstorms impacting operations on June 9. Additional crews were dispatched on overtime on June 12 to respond to residents requests for service. To date 3,399 service calls have been answered despite weather conditions that continue to cancel or postpone operations. Residents have been alerted through our phone system and social media channels that response may be delayed, but most comments received have been positive and understanding.

2015 Mass. Rainfall Data vs. 35 Year Average*



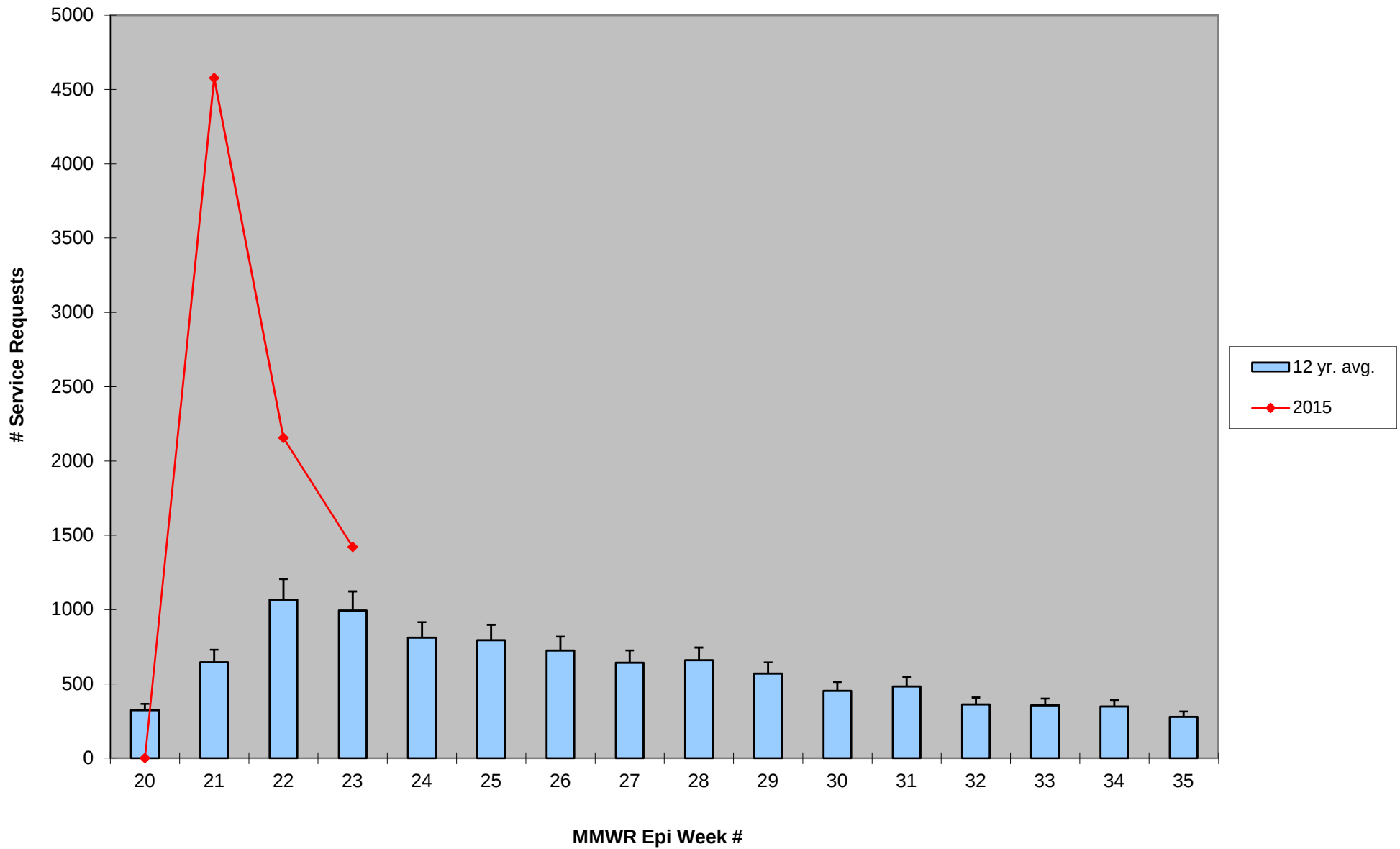
*Source: http://www.nrcc.cornell.edu/page_summaries.html

2015 CMMCP Weekly Rainfall vs. 10 Year Average*



*Source: CMMCP weather station - Northborough, MA 01532

ULV Service Request History Comparison 2003-2015



Error bars show approx. number of requests if we had 40 communities over the 12 year average

2015 Rainfall vs. Requests

