

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #30
July 26 – Aug. 1, 2015

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

Central Mass. Mosquito Control Project
Weekly Report- 7/26/15-8/1/15
EPI Week #30

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	111	356	100	198	497	2196
Total Specimens	804	27946	880	4649	9829	53981
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 EPI Week 30 averaged 74.8°F with a recorded high temperature of 92.9°F and a recorded low temperature of only 61.5°F. There was only 0.08 inches of precipitation observed this week. Compared to the previous week, it was approximately 2.0°F warmer on average, and rained about 0.04 inches more. There has been 0.17 inches of rain accumulated in July, after 5.17 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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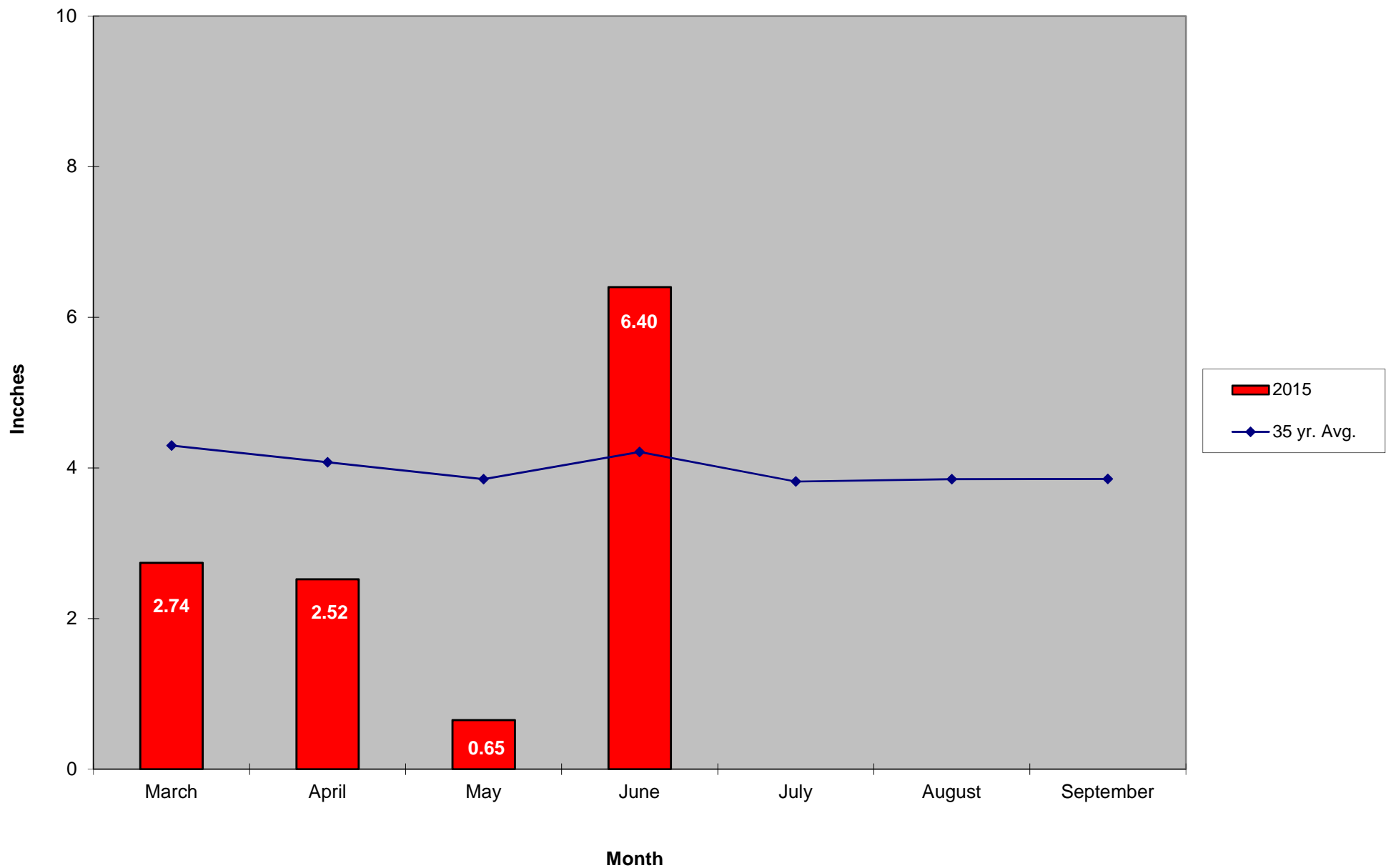
<i>Aedes vexans</i>	-100.0%	+00.00%	Millbury
<i>Coquillettidia perturbans</i>	+87.18%	+99.45%	Billerica, Webster
<i>Culiseta melanura</i>	-57.14%	-25.00%	Tewksbury, Billerica
<i>Ochlerotatus canadensis</i>	-66.67%	-33.33%	Billerica
<i>Culex</i> Species	+106.7%	-13.89%	Hopedale, Wilmington
All Species	+58.33%	+77.12%	Billerica, Webster, Wilmington

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

General narrative: The temperatures for EPI Week 30 averaged approximately 2°F warmer than the previous week, with only 0.08 inches of precipitation. July was an extremely dry month, finishing with only 0.17 inches observed at the CMMCP weather station. Overall collection numbers increased by 58% from EPI Week 29 at the historical surveillance trap sites. An increase in *Coquillettidia perturbans* collections was primarily responsible for this overall rise in surveillance specimens. The only other target species to experience an increase from the previous week was *Culex spp.* Compared to the 2014 season, the long-term surveillance locations showed an overall increase of almost 77%. As with the weekly comparison, this was primarily due to additional *Cq. perturbans* specimens being collected. *Cq. perturbans* remained the most abundant species in the CMMCP service area with *Culex spp.* second.

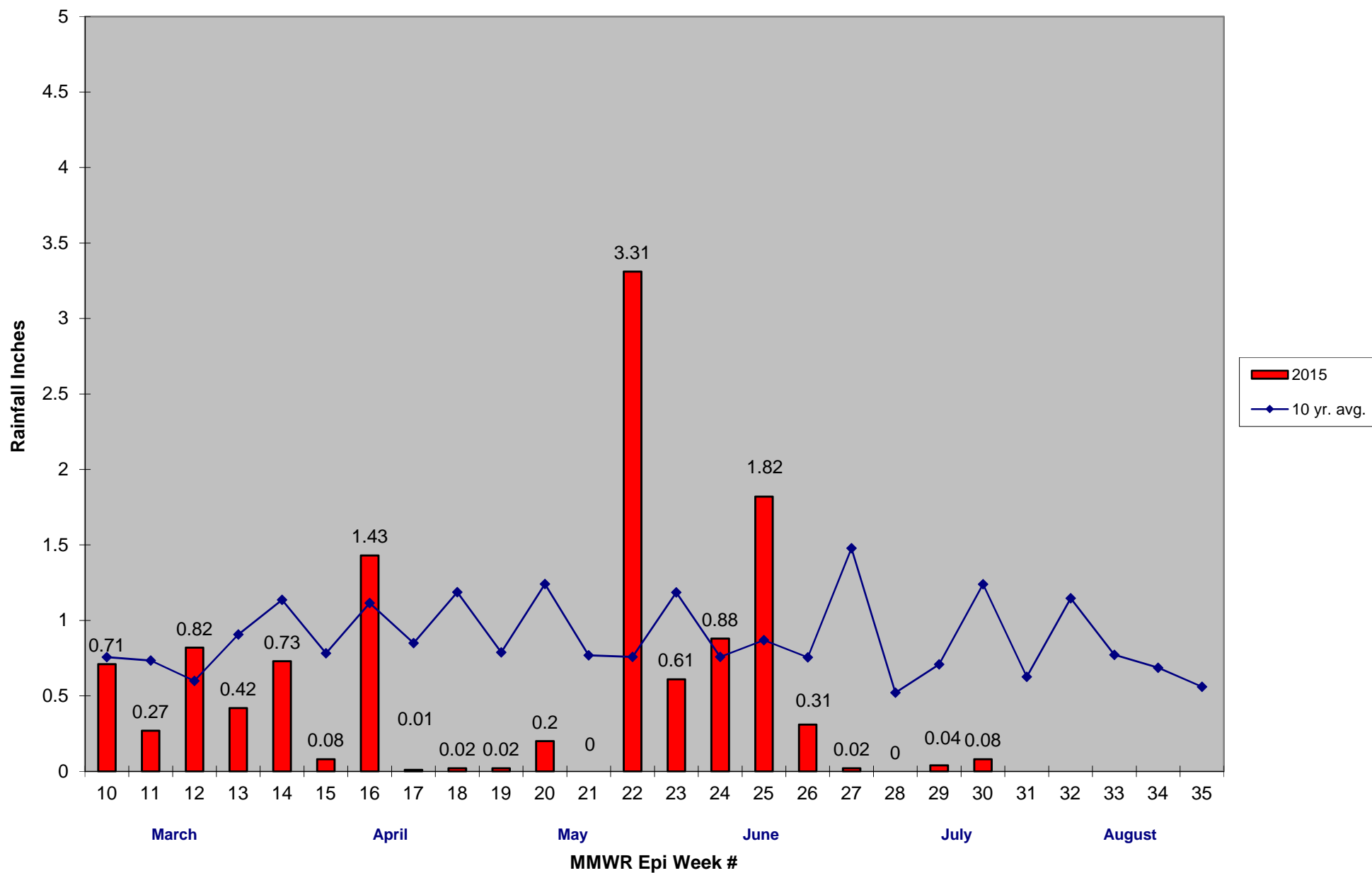
For the year we have received 191% more service requests than average; 14,050 requests to date compared to the 12 year average of 7,356. Requests were 18.4% more than the 2014 totals for the same time frame, 11,866 in 2014 against 14,050 in 2015. Service requests increased 10.1% from EPI week 29 to Epi week 30 for 2015 (561 v. 618). 816 service calls were completed this week with minimal weather events impacting operations. To date 13,817 service calls have been completed despite weather conditions earlier in the season that cancelled or postponed operations. Catch basin treatments are underway in all member communities as a preemptive control for *Culex* and West Nile Virus.

2015 Mass. Rainfall Data vs. 35 Year Average*



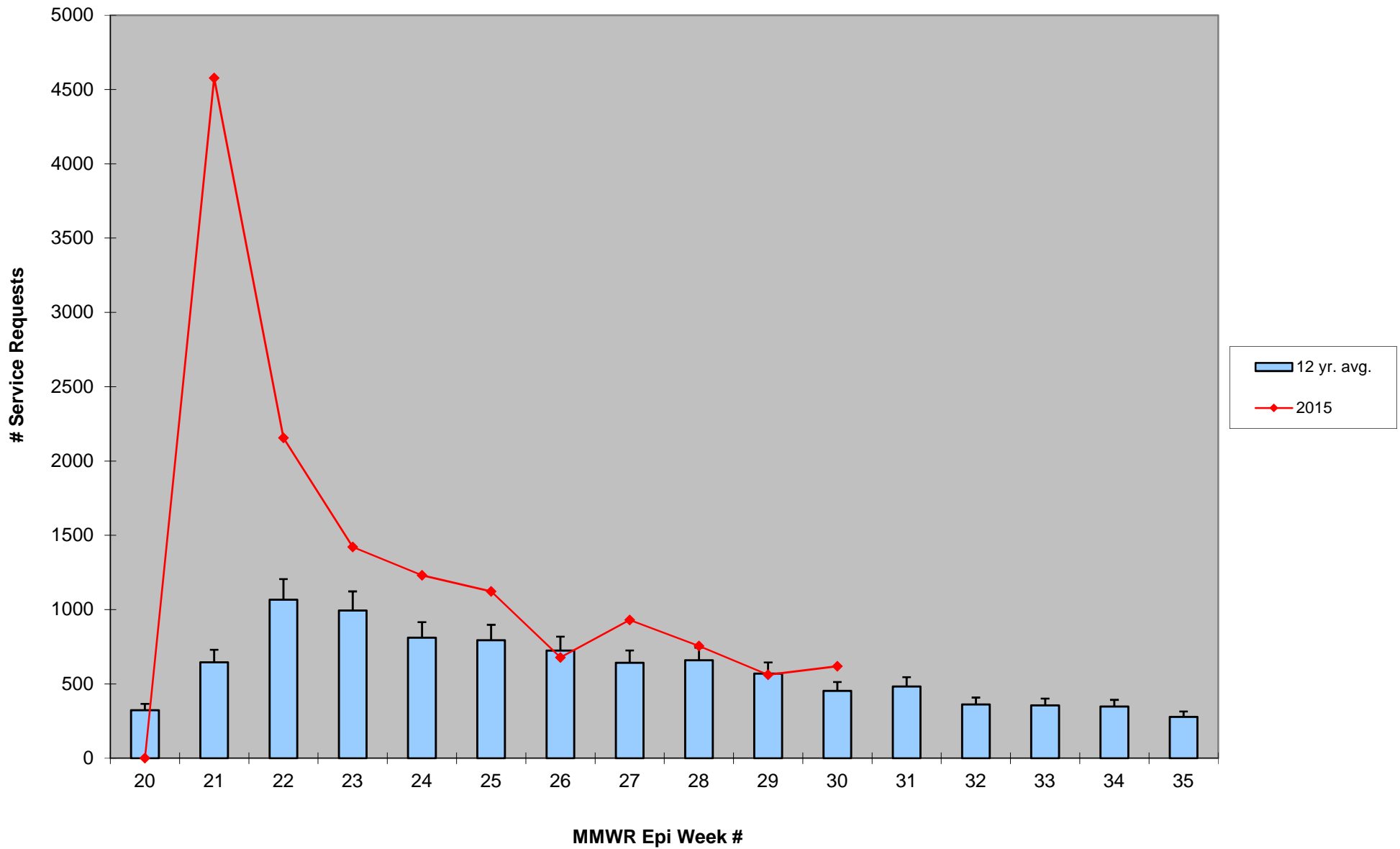
*Source: http://www.nrcc.cornell.edu/page_summaries.html

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

