

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #24
June 14-20, 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- 6/14/15-6/20/15
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	19	67	45	108	129	701
Total Specimens	122	2033	578	3258	1262	13494
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 65.7°F with a recorded high temperature of 83.6°F and a recorded low temperature of only 51.1°F. For this week there was also a total of 0.88 inches of rain observed. Compared to the previous week, it was approximately 3.76°F cooler on average, and rained about 0.27 inches more. There has been 3.07 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>	+100.0%	+100.0%	Northbridge, Southborough
<i>Coquillettidia perturbans</i>	+1057%	+523.1%	Westborough, Devens
<i>Culiseta melanura</i>	+2120%	+177.5%	Tewksbury, Wilmington
<i>Ochlerotatus canadensis</i>	+88.33%	+101.8%	Northbridge, Webster
<i>Culex</i> Species	+414.3%	+125.0%	Hudson, Marlborough
All Species	+151.3%	+126.0%	Westborough, Northbridge

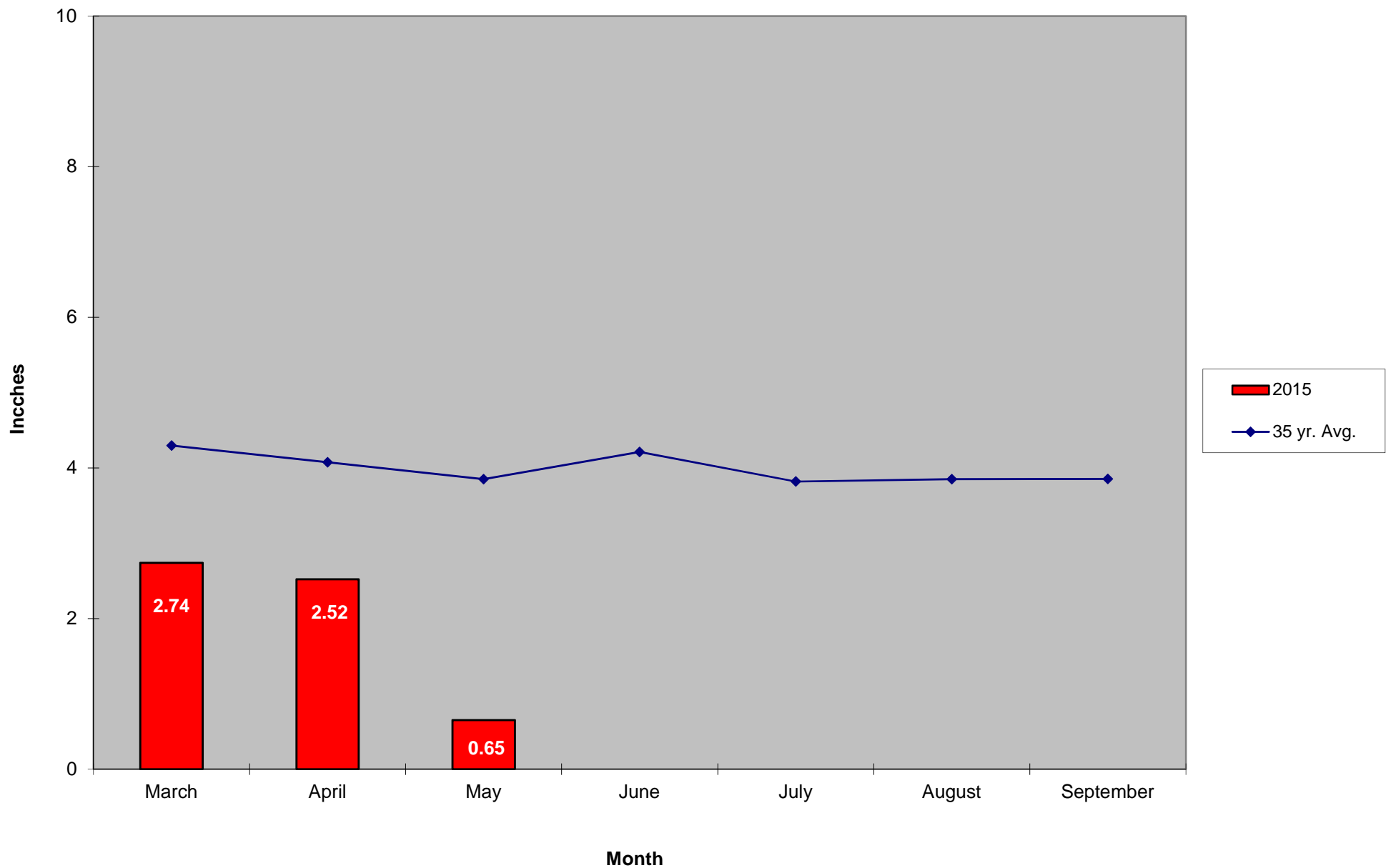
The predominant mosquito for the week was *Coquillettidia perturbans*
followed by *Ochlerotatus canadensis*.

General narrative: The temperatures for EPI week 24 averaged approximately 4 degrees cooler than the previous week, with 0.88 inches of precipitation observed. Overall collection numbers were higher than EPI week 23, with all target species displaying increases from the prior collection period. *Coquillettidia perturbans* has overtaken *Ochlerotatus canadensis* as the most abundant species in the CMMCP service area, with *Oc. canadensis* now becoming the second most abundant species. *Cq. perturbans* will likely remain a predominant species for the next several weeks. Overall collections numbers should continue to increase with further emergence of this species. Additional rain events could contribute to more flood water and container mosquitoes as well.

For the year we have received 267% more service requests than average; 9,386 requests to date compared to the 12 year average of 3,514. Requests were 156% more than the

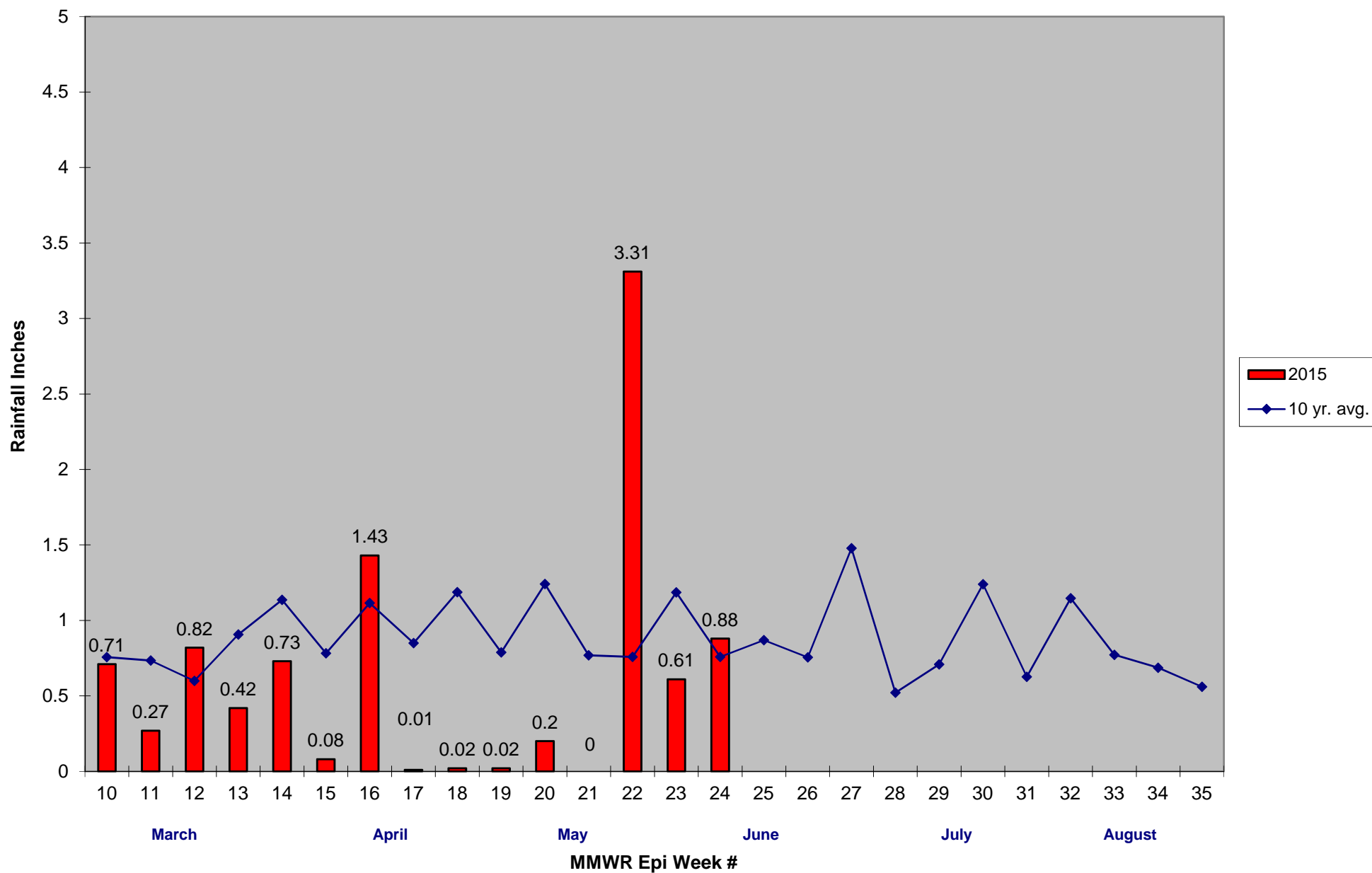
2014 totals for the same time frame, 6,016 in 2014 against 9,386 in 2015. Service requests decreased 14% from EPI week 23 to Epi week 24 for 2015 (1,421 v 1,231). 1,781 service calls were completed this week despite rain impacting operations on June 15. Additional crews were dispatched on overtime on June 19 to respond to residents requests for service. To date 5,180 service calls have been answered despite weather conditions that continue to cancel or postpone operations.

2015 Mass. Rainfall Data vs. 35 Year Average*



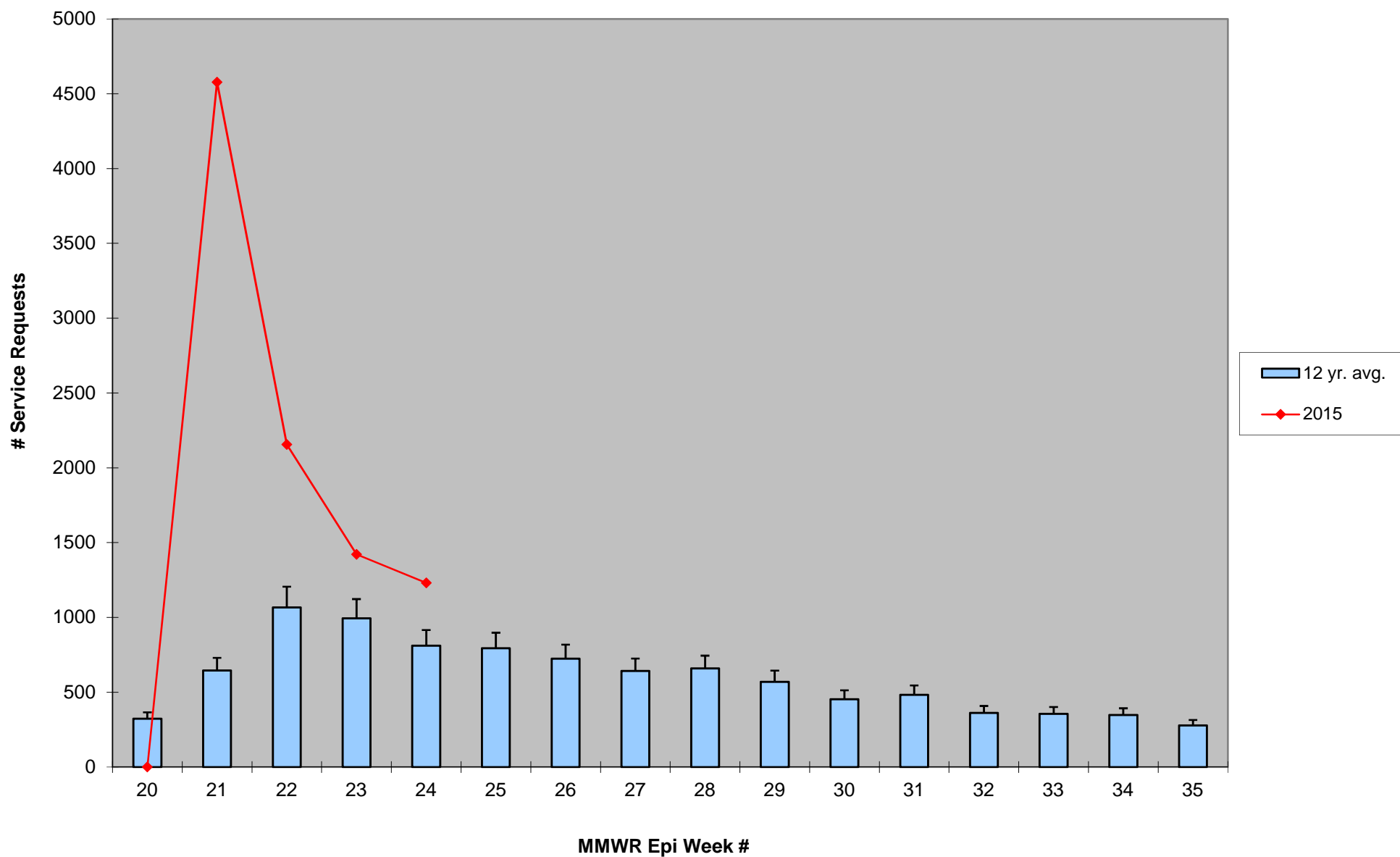
*Source: http://www.nrcc.cornell.edu/page_summaries.html

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

