

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #30
July 20 - 26, 2014

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

**Central Mass. Mosquito Control Project
Weekly Report- 7/20/14-7/26/14
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	1	50	27	33	440	784
Total Specimens	1	3344	137	300	7809	12953
No. Pools WNV +	0	0	0	0	1 [†]	1 [†]
No. Pools EEE +	0	0	0	0	0	0

†Pool of WNV+ *Culex* Species collected in Clinton on 7/3/13

Weather Summary (Northborough, MA): The weather for this particular week averaged 72.43°F with a recorded high temperature of 91.7°F and a recorded low temperature of only 54.9°F. For this week there was also a total of 0.07 inches of rain observed. Compared to the previous week, it was approximately 0.11°F cooler on average, and rained about 0.40 inches less. There has been 2.13 inches of rain accumulated in July, while the total rainfall for the month of June was 1.46 inches.

Service Request Summary: For the year we have received 71% more requests than average; 11,866 requests to date compared to the 11 year average of 6,946. Requests were 26% more than the 2013 totals for the same time frame, 9,432 in 2013 against 11,866 in 2014. Service requests rose slightly (9%) from EPI week 29 to Epi week 30 for 2014 (649 vs. 706).

CMMCP Mosquito Summary*-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
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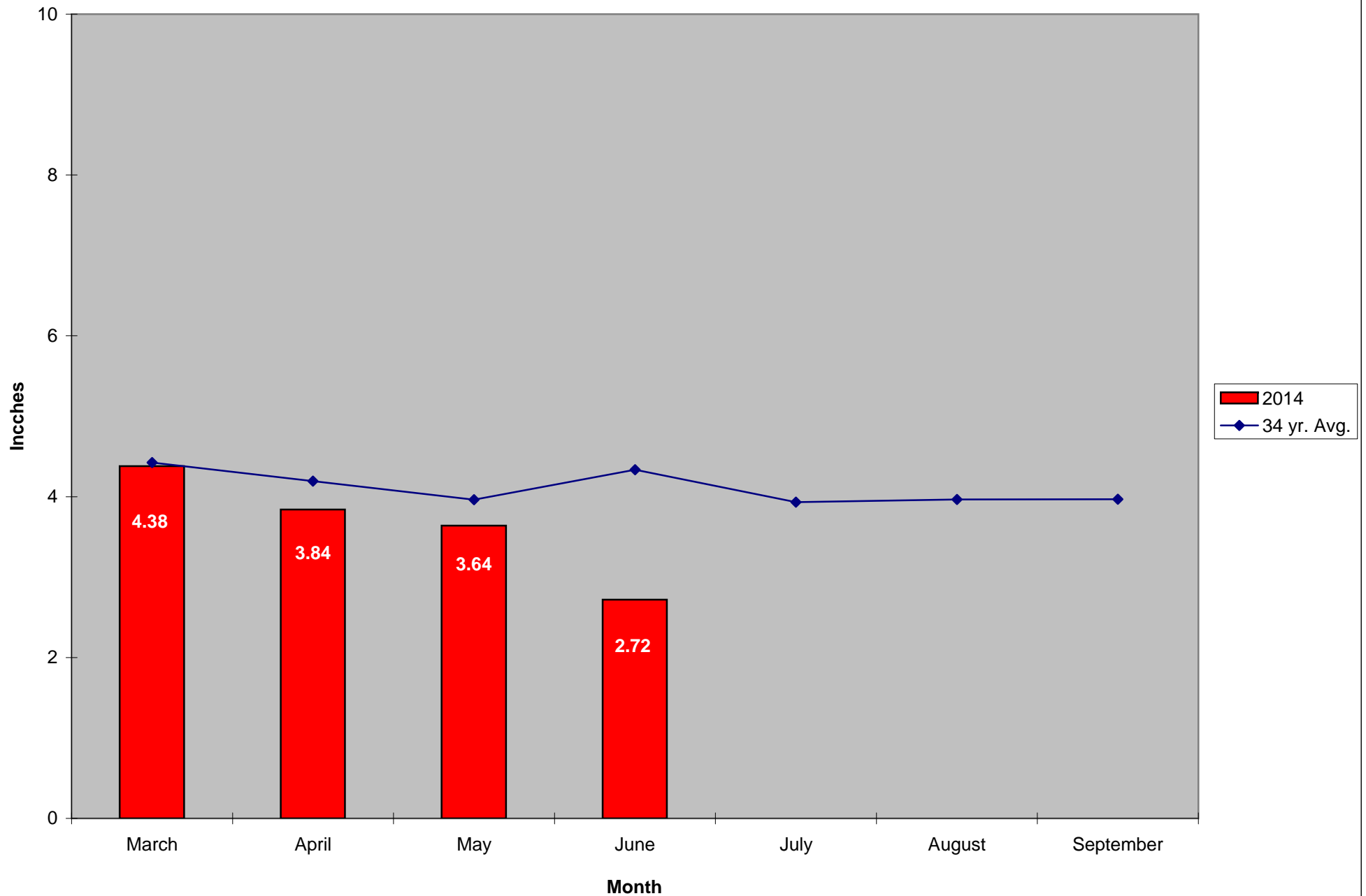
<i>Aedes vexans</i>	+00.00%	-100.0%	N/A
<i>Coquillettidia perturbans</i>	-74.79%	-46.28%	Webster, Tewksbury
<i>Culiseta melanura</i>	-41.67%	-22.22%	Tewksbury
<i>Ochlerotatus canadensis</i>	-91.94%	-44.44%	Webster, Berlin
<i>Culex</i> Species	+12.20%	-22.03%	Hudson, Marlborough
All Species	-71.69%	-45.10%	Webster, Tewksbury

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

GENERAL NARRATIVE: The temperature this week remained stable, with very little accumulated rainfall. Following the largest week for *Coquilleltidia perturbans*, there was a significant drop in this mosquito species. *Ochlerotatus canadensis* and *Culiseta melanura* also experienced decreases this week, while *Culex* mosquitoes had a significant increase at the CDC historical trap sites. Once again *Aedes vexans* was

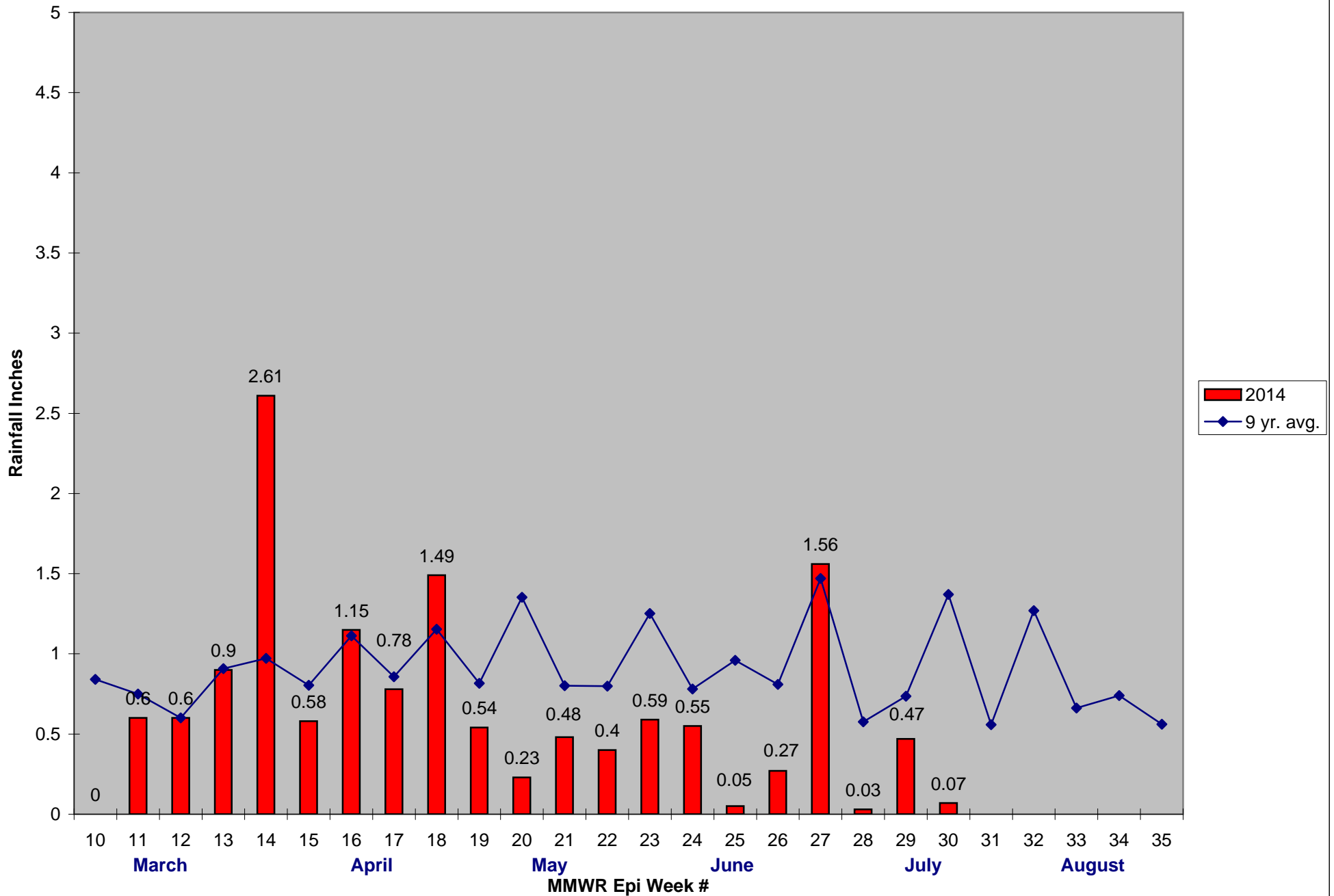
absent from these historic trap sites and still has yet to be collected at these locations in 2014. The decrease in overall historical site collection numbers was largely due to the significant drop in *Cq. perturbans* specimens this week. At the historical CDC trap locations, all target species were present in lower levels this week than during the 2013 EPI week 30, and once again *Cq. perturbans* was the principal species followed by *Culex*. However, when all trap types are taken into consideration, these two switch predominance for the CMMCP service area.

2014 Mass. Rainfall Data vs. 34 Year Average*



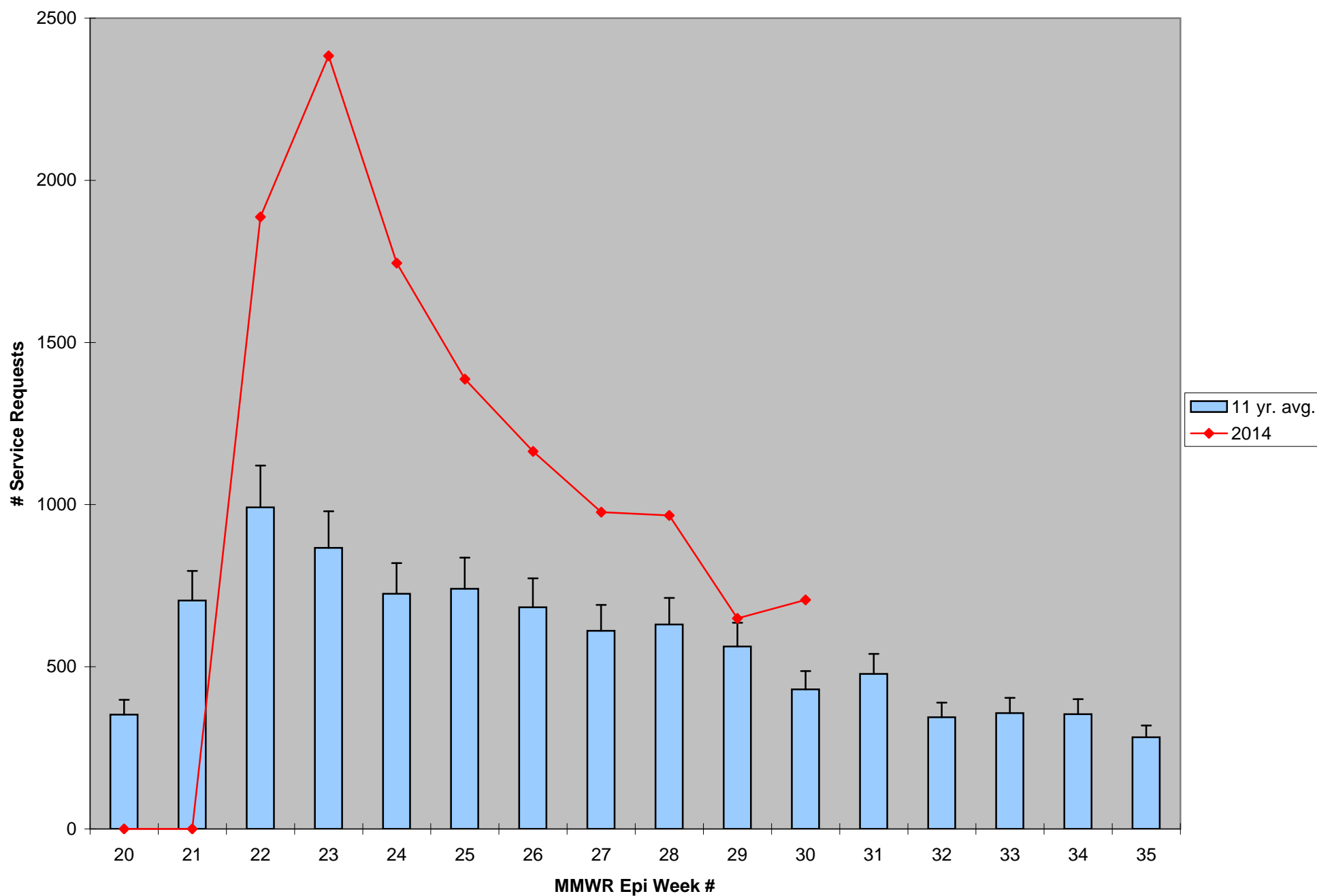
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

2014 CMMCP Weekly Rainfall vs. 9 Year Average*



*Source: CMMCP Weather Station - Northborough, MA

ULV Service Request History Comparison 2003-2014



Error bars show approx. number of requests if we had 40 cities and towns over the 10 year average

2014 Rainfall vs. Requests

