

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #37
Sep. 7-13, 2014

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Central Mass. Mosquito Control Project
Weekly Report- 9/7/14-9/13/14
EPI Week #37

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	30	193	51	41	687	1342
Total Specimens	343	7687	254	348	11947	22545
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 62.74°F with a recorded high temperature of 77.8°F and a recorded low temperature of only 47.8°F. For this week there was also a total of 0.28 inches of rain observed. Compared to the previous week, it was approximately 12.39°F cooler on average, and rained about 1.03 inches less. September has experienced 0.54 inches of rain, while the total rainfall for the month of August was 3.70 inches.

Service Request Summary (FINAL): For 2014 we received 57% more requests than the 11 year average; 13,778 requests compared to the average of 8,761. Requests were 13.49% more than the 2013 totals, 12,140 in 2013 against 13,778 in 2014. Standard response to service request has ended, we will continue to monitor for arboviruses and respond as needed.

CMMCP Mosquito Summary*-

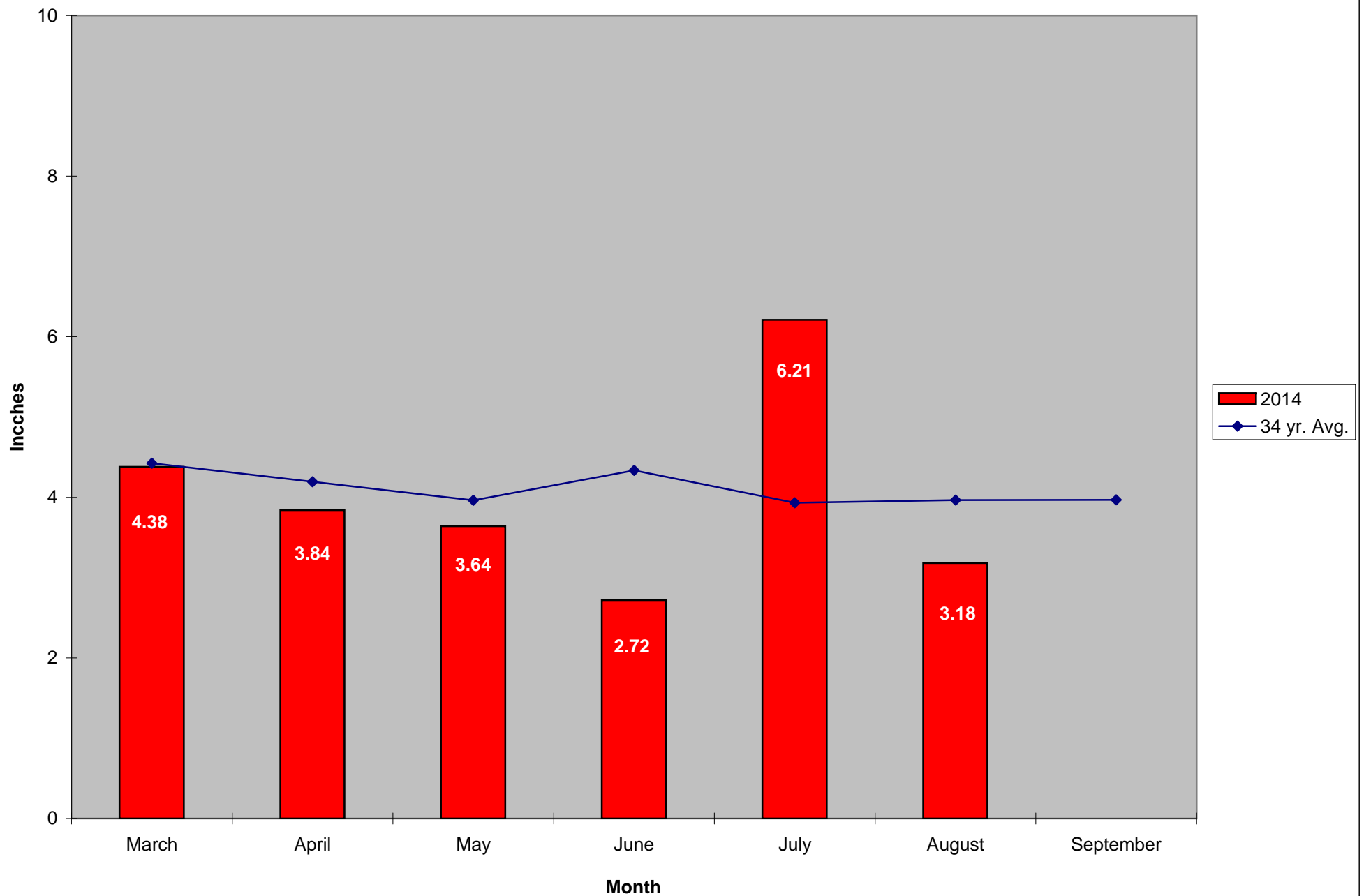
Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+00.00%	-100.0%	N/A
<i>Coquillettidia perturbans</i>	-82.14%	-67.74%	Webster, Holliston
<i>Culiseta melanura</i>	-70.00%	-76.92%	Tewksbury
<i>Ochlerotatus canadensis</i>	+00.00%	+00.00%	N/A
<i>Culex</i> Species	-47.22%	-24.00%	Milford, Tewksbury
All Species	-57.14%	-57.14%	Webster, Milford, Tewksbury

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

General narrative: After a spike in average temperature and collection numbers, EPI week 37 was more seasonable which was reflected in the mosquito surveillance. This week was approximately 12 degrees cooler, with around a quarter inch of precipitation. The overall collection numbers at the historical trap sites were lower compared to previous week as well as the corresponding 2013 period. All target species were

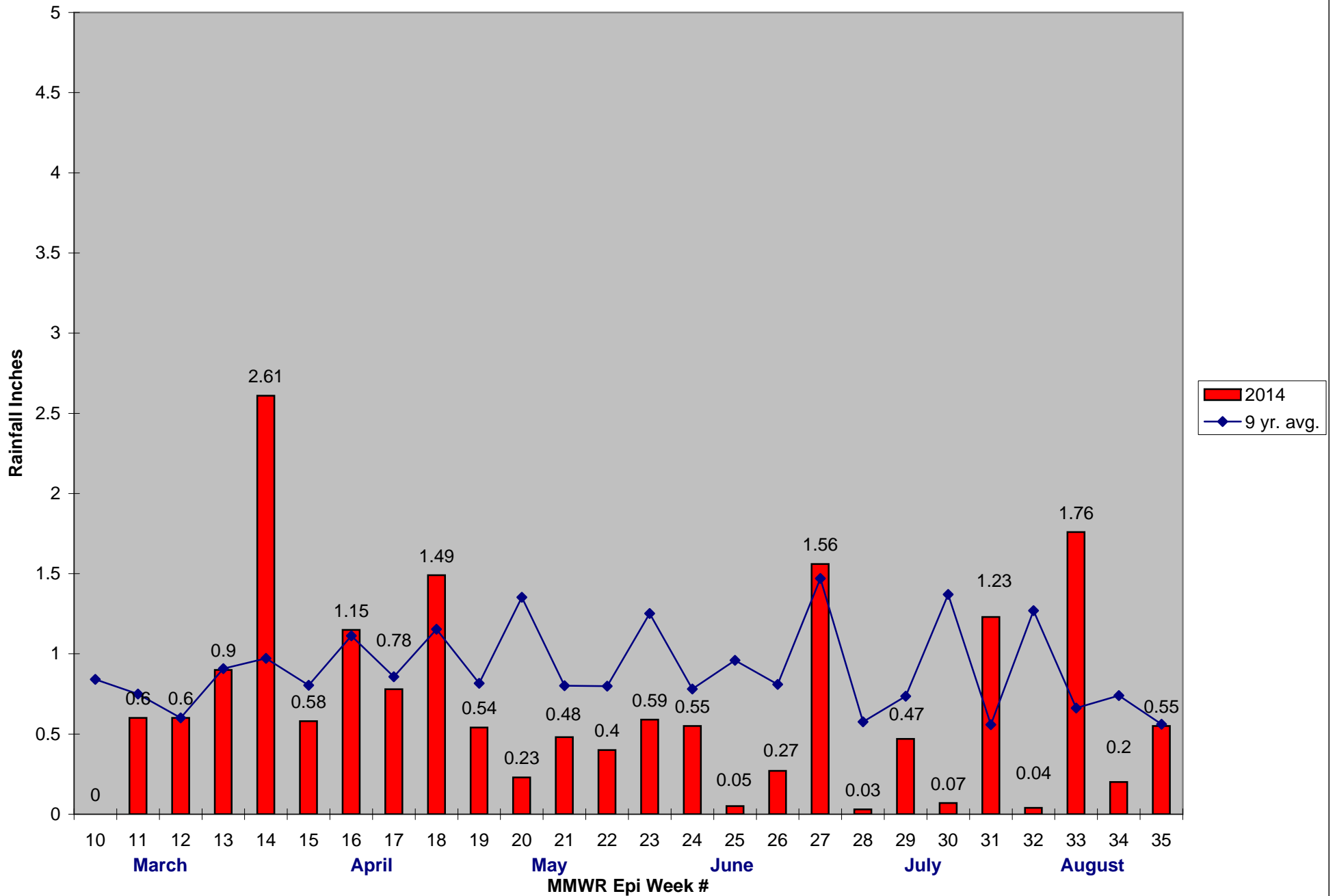
present in lower or equal levels for both comparisons. At the historical CDC trap locations, *Culex* was the principal mosquito followed by *Coquilleltidia perturbans*, and this was also true when all trap types are taken into consideration. *Cq. perturbans* should continue their decline through the end of the season. Temperatures are predicted to remain cool for EPI week 38, which may cause all collection numbers to further decline.

2014 Mass. Rainfall Data vs. 34 Year Average*



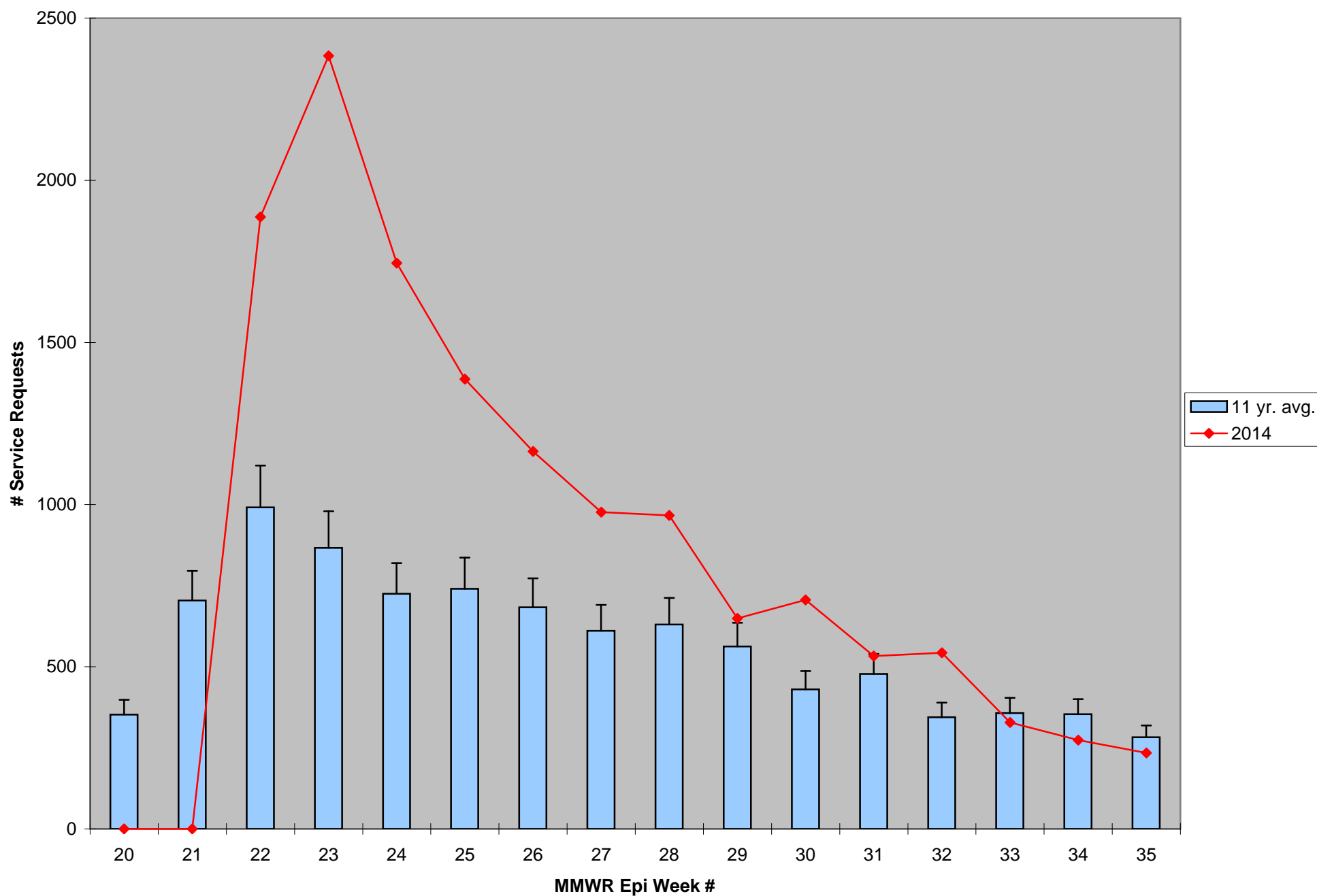
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

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

