

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #29**  
**July 13 – 19, 2014**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 7/13/14-7/19/14**  
**EPI Week #29**

## 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	43	24	31	389	704
Total Specimens	1	3041	130	295	7095	11812
No. Pools WNV +	0	0	0	0	1 <sup>†</sup>	1 <sup>†</sup>
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 72.54°F with a recorded high temperature of 85.5°F and a recorded low temperature of only 55.8°F. For this week there was also a total of 0.47 inches of rain observed. Compared to the previous week, it was approximately 2.16°F cooler on average, and rained about 0.44 inches more. There has been 2.06 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; 11,160 requests to date compared to the 11 year average of 6,515. Requests were 27% more than the 2013 totals for the same time frame, 8,795 in 2013 against 11,160 in 2014. Service requests dropped (12%) from EPI week 28 to Epi week 29 for 2014 (967 vs. 649).

## CMMCP Mosquito Summary\*-

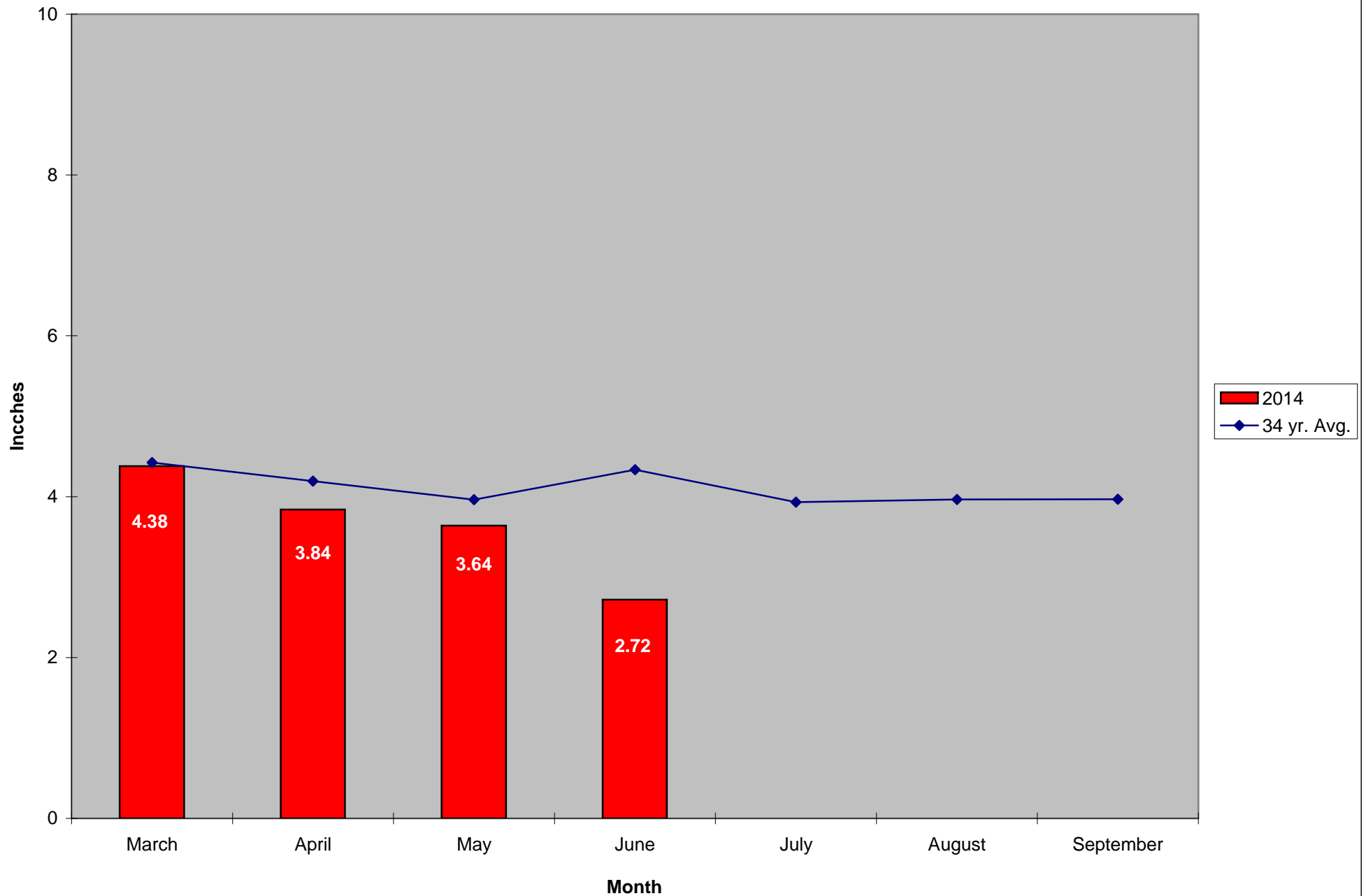
Target Species	$\Delta$ From Last Week	$\Delta$ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+00.00%	-100.0%	N/A
<i>Coquillettidia perturbans</i>	+67.41%	+64.21%	Webster, Tewksbury
<i>Culiseta melanura</i>	+1100%	+20.00%	Holliston
<i>Ochlerotatus canadensis</i>	+313.3%	+121.4%	Webster
<i>Culex</i> Species	-62.04%	-38.81%	Shrewsbury
All Species	+52.61%	+45.20%	Webster, Shrewsbury

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

**General Narrative:** Compared to EPI week 28, the temperatures were slightly lower, and there were several small rain events, totaling .47 inches for this week. Once again an increase in *Coquillettidia perturbans* was observed, significantly in fact. *Ochlerotatus canadensis* and *Culiseta melanura* also displayed increases this week, while *Culex* mosquitoes experienced a significant decrease at the CDC historical trap sites. *Aedes vexans* was again absent from these historic trap sites and has yet to be collected at

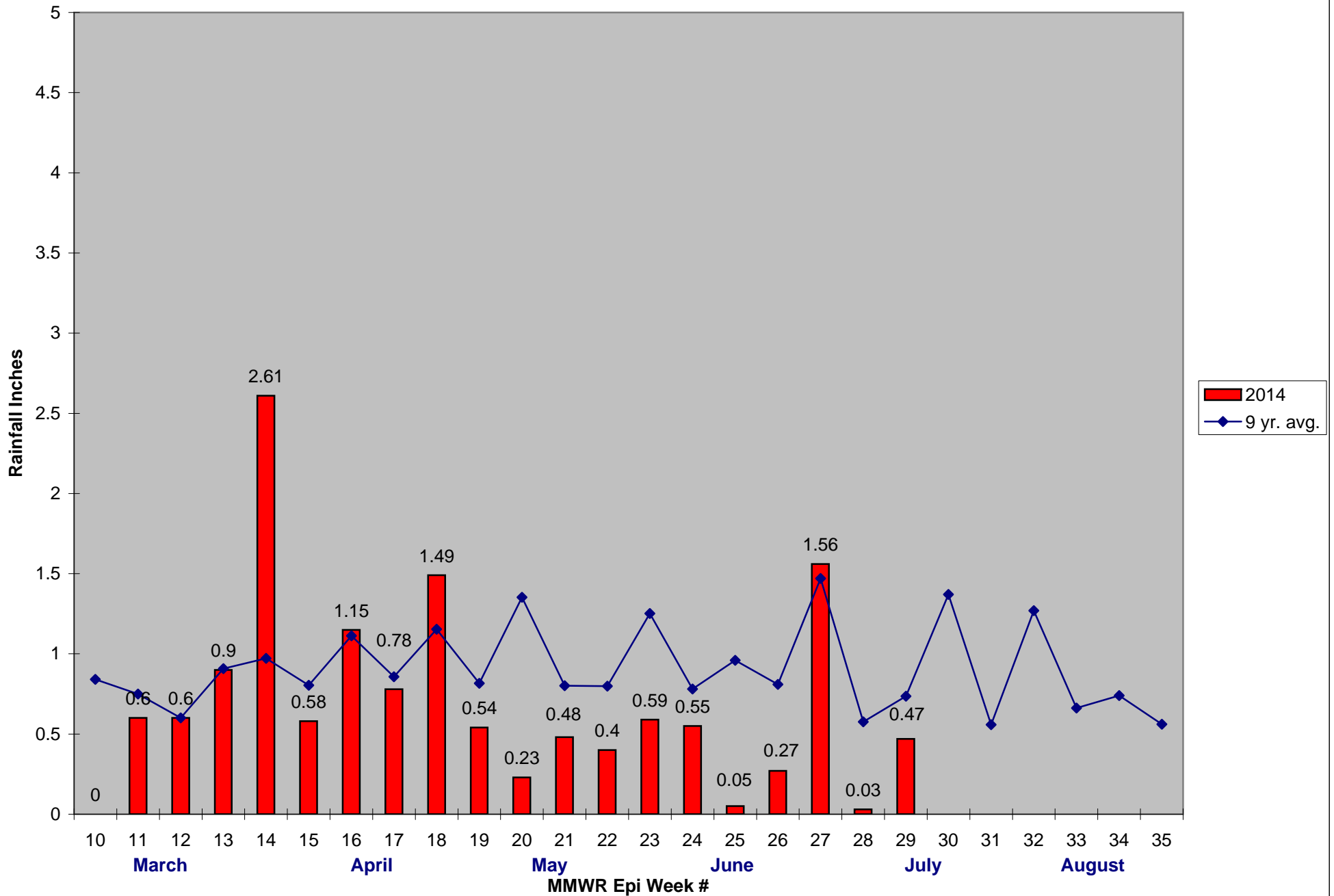
these locations in 2014. The increase in overall historical site collection numbers was largely due to the additional *Cq. perturbans* specimens this week. When looking at the historical CDC trap locations, *Culex* and *Ae. vexans* were the only target species present in lower levels than during the 2013 EPI week 29. At these locations, *Cq. perturbans* was again the principal species followed by *Culex*, but when all trap types are taken into consideration, these two switch predominance.

### 2014 Mass. Rainfall Data vs. 34 Year Average\*



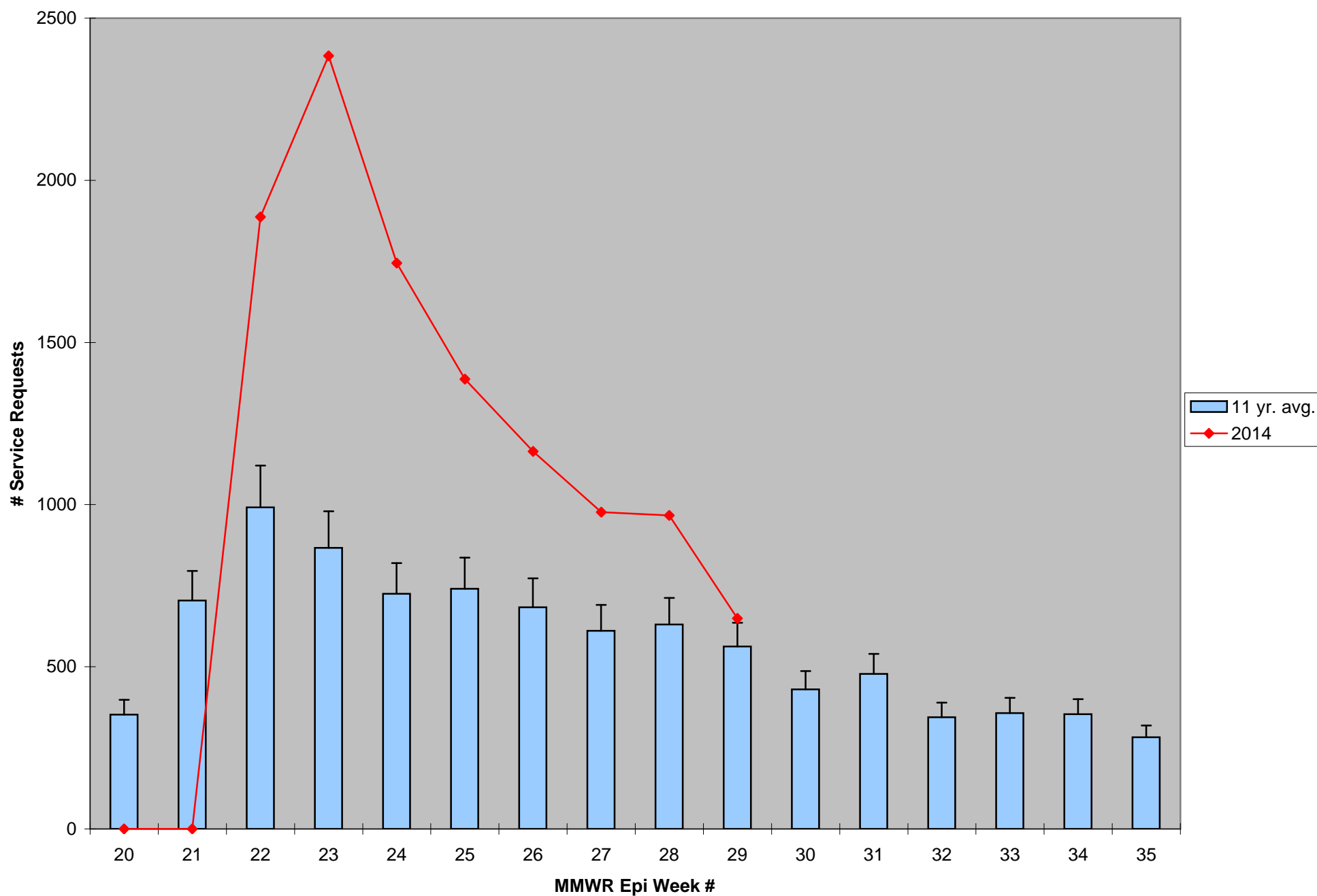
\*Source: Northeast Regional Climate Center: [http://www.nrcc.cornell.edu/page\\_summaries.html](http://www.nrcc.cornell.edu/page_summaries.html)

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

