

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #32**  
**Aug. 3 – 9, 2014**

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# Central Mass. Mosquito Control Project

## Weekly Report- 8/3/14-8/9/14

### EPI Week #32

## 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	3	94	34	36	539	972
Total Specimens	12	5341	186	321	9802	17228
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 71.24°F with a recorded high temperature of 89.7°F and a recorded low temperature of only 55.3°F. For this week there was also a total of 0.04 inches of rain observed. Compared to the previous week, it was approximately 1.61°F warmer on average, and rained about 1.19 inches less. There has been 0.14 inches of rain accumulated in August, while the total rainfall for the month of July was 3.26 inches.

**Service Request Summary:** For the year we have received 60% more requests than average; 12,942 requests to date compared to the 11 year average of 7,768. Requests were 17.5% more than the 2013 totals for the same time frame, 10,689 in 2013 against 12,942 in 2014. Service requests increased slightly from EPI week 31 to Epi week 32 for 2014 (533 vs. 543).

## CMMCP Mosquito Summary\*-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
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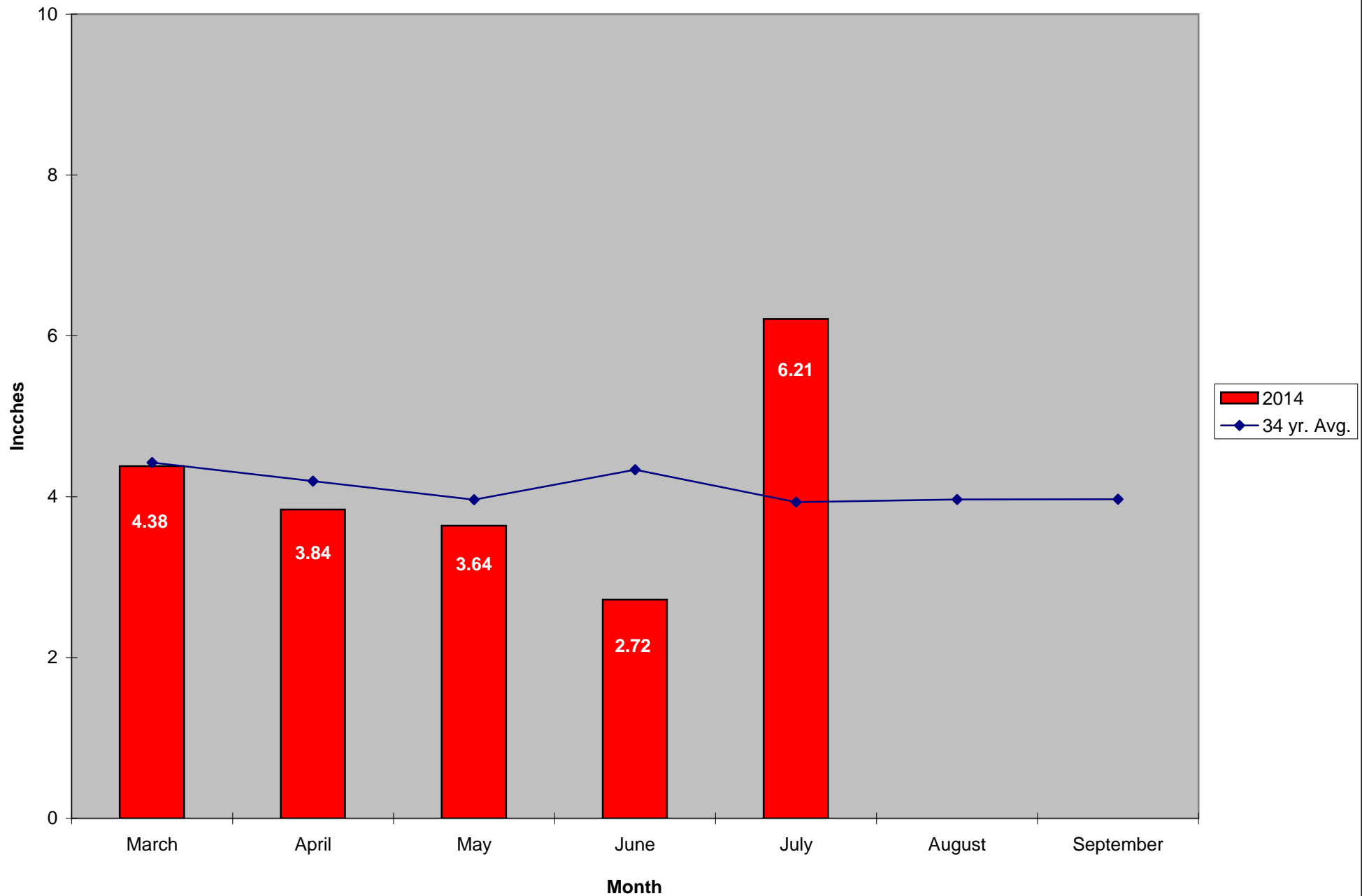
<i>Aedes vexans</i>	-100.0%	+00.00%	N/A
<i>Coquillettidia perturbans</i>	-61.82%	+194.6%	Webster, Tewksbury
<i>Culiseta melanura</i>	-55.88%	+50.00%	Tewksbury
<i>Ochlerotatus canadensis</i>	-100.0%	-100.0%	N/A
<i>Culex</i> Species	-38.57%	-35.82%	Hopedale, Stow, Auburn
All Species	-59.63%	+24.45%	Webster, Hopedale

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

**General narrative:** There was a slight increase in temperature during EPI week 32, and very little rainfall, especially compared to the previous week. This week was approximately two degrees warmer on average with only 0.04 inches of rain observed. All target species, *Aedes vexans*, *Coquillettidia perturbans*, *Culiseta melanura*, *Culex*, and *Ochlerotatus canadensis* experienced decreases at the historical trap sites during

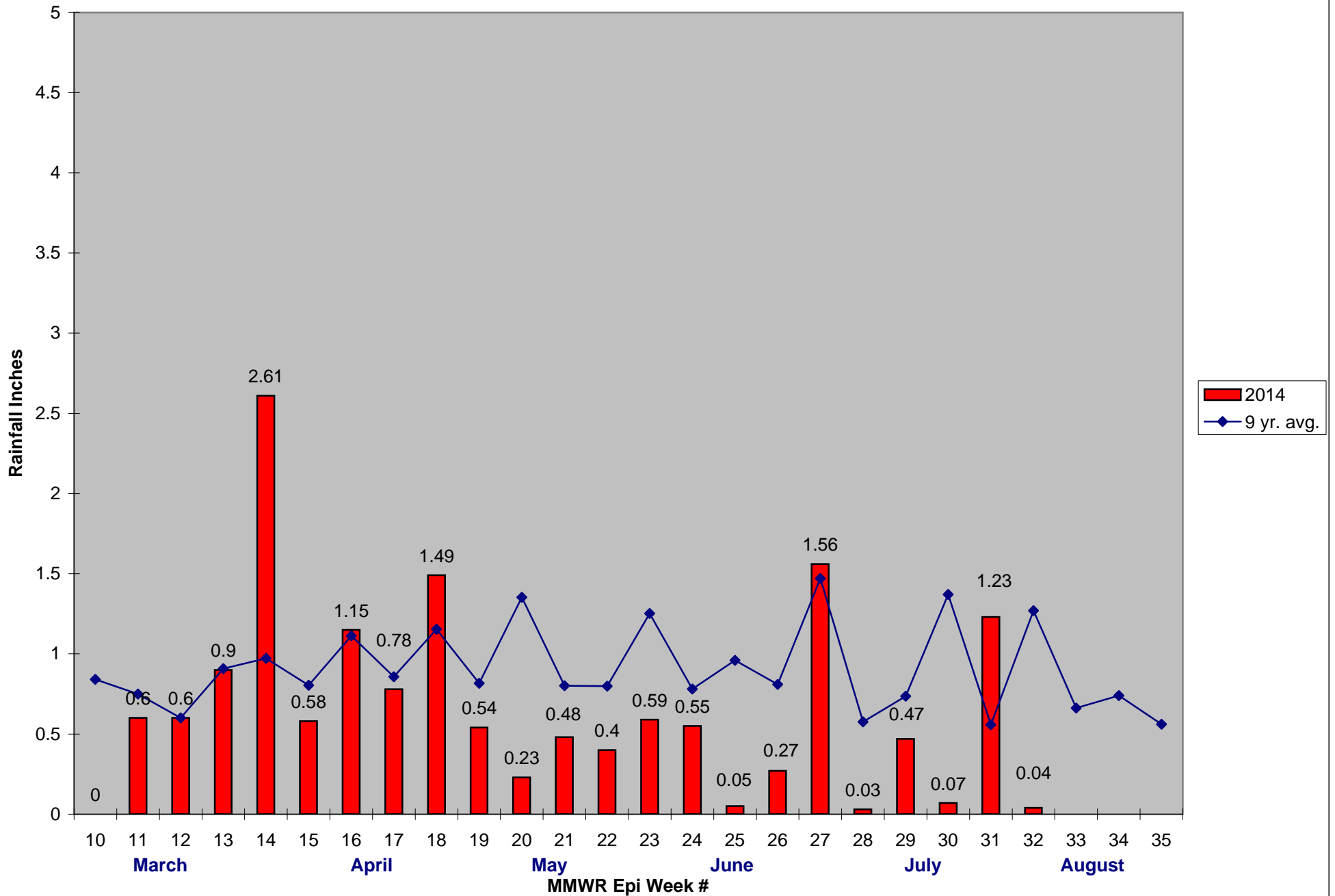
this period. After observing the season's first *Ae. vexans* specimen last week, collections once again returned zero at these particular sites. Of our target species, only *Culex* and *Oc. canadensis* are present in lower levels than during the 2013 EPI week 32. At the historical CDC trap locations, *Cq. perturbans* was again the principal species followed by *Culex*, but when all trap types are taken into consideration, these two switch predominance. Additional CDC traps have started to be utilized in all CMMCP communities in the continued search for eastern equine encephalitis and West Nile virus.

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



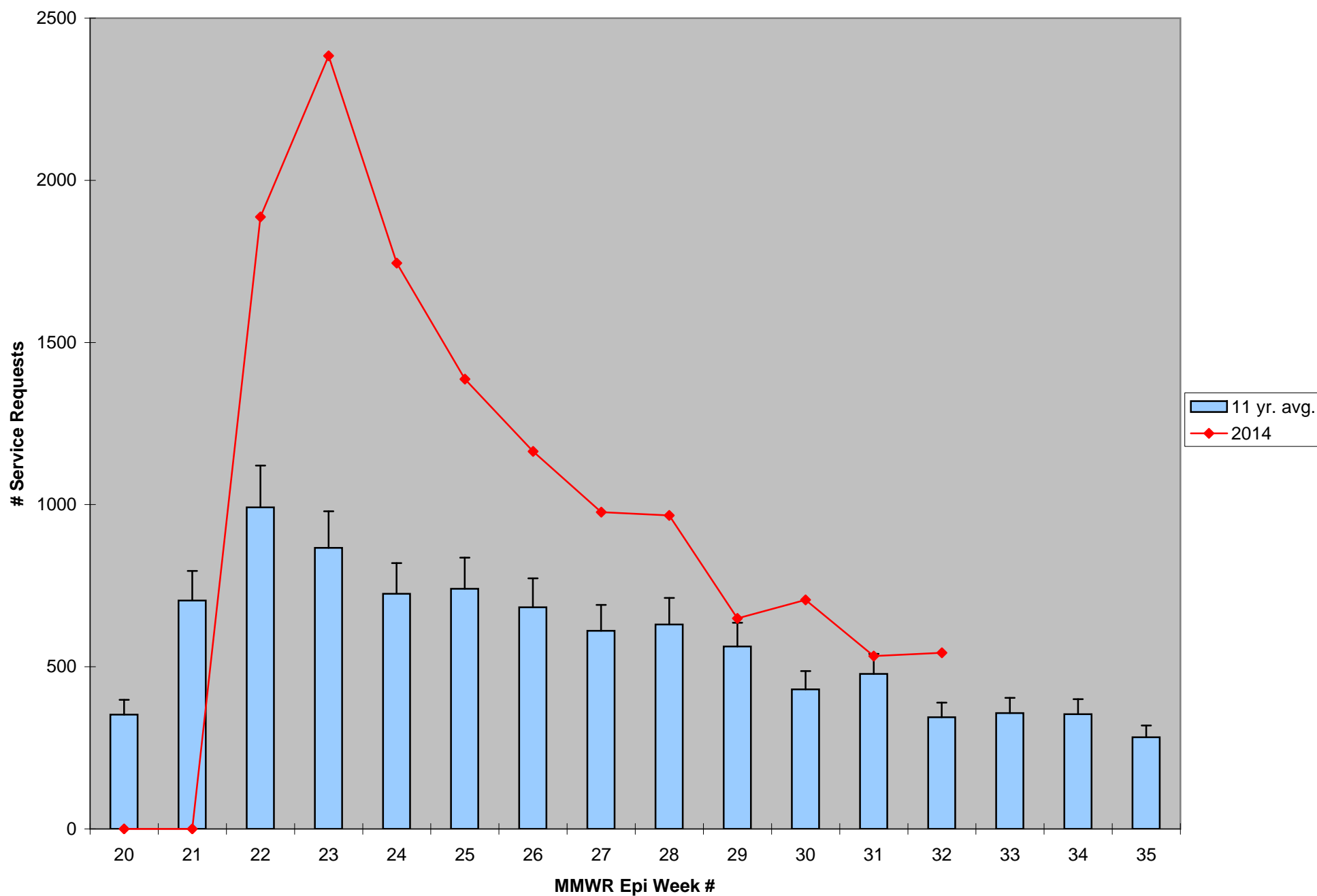
\*Source: Northeast Regional Climate Center: [http://www.nrcc.cornell.edu/page\\_summaries.html](http://www.nrcc.cornell.edu/page_summaries.html)

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

