

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #38
Sept. 18 – 24, 2011

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Central Mass. Mosquito Control Project
Weekly Report- 9/18/11-9/24/11
EPI Week #38

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	88	239	190	93	994	2706
Total Specimens	1152	6648	1333	561	24913	39510
No. Pools WNV +	0	1 [†]	0	0	19 [†]	20 [†]
No. Pools EEE +	1 [†]	0	3 [†]	0	0	4 [†]

[†]Pool of WNV+ *Culex* Species collected in Sturbridge on 7/22/11

[†]Pool of WNV+ *Culex* Species collected in Acton on 7/28/11

Pool of WNV+ *Culex* Species collected in Worcester on 8/12/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/12/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Dracut on 8/9/11

[†]Pool of WNV+ *Culex* Species collected in Westford on 8/10/11

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/11/11

[†]Pool of WNV+ *Culex* Species collected in Shrewsbury on 8/11/11

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/12/11

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/17/11

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/18/11

[†]Pool of WNV+ *Culex* Species collected in Shrewsbury on 8/18/11

[†]Pool of WNV+ *Culex* Species collected in Dracut on 8/19/11

[†]Pool of WNV+ *Culex* Species collected in Sturbridge on 8/19/11

[†]Pool of WNV+ *Culex* Species collected in Tewksbury on 8/23/11

[†]Pool of WNV+ *Culex* Species collected in Acton on 8/25/11

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/25/11

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/31/11

[†]Pool of WNV+ *Culex* Species collected in Shrewsbury on 8/31/11

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 9/7/11

[†]Pool of WNV+ *Coquillettidia perturbans* collected in Chelmsford on 9/7/11

[†]Pool of WNV+ *Culex* Species collected in Billerica on 9/7/11

[†]Pool of EEE+ *Culiseta melanura* collected in Westborough on 9/13/11

[†]Pool of EEE+ *Culiseta melanura* collected in Shrewsbury on 9/15/11

[†]Pool of EEE+ *Aedes vexans* collected in Shrewsbury on 9/15/11

[†]Pool of EEE+ *Culiseta melanura* collected in Sherborn on 9/15/11

WNV+ human (>64, female) from Fitchburg, onset 9/3/11

Weather Summary (Northborough, MA): The weather for this particular week averaged 63.60°F with a recorded high temperature of 79.2°F and a recorded low temperature of only 41.7°F. For this week there was also a total of 1.46 inches of rain observed. Compared to the previous week, it was approximately 0.09°F cooler on average, and rained about 1.40 inches more. There has been 5.11 inches of rain accumulated in September, while the total rainfall for the month of August was 11.44 inches.

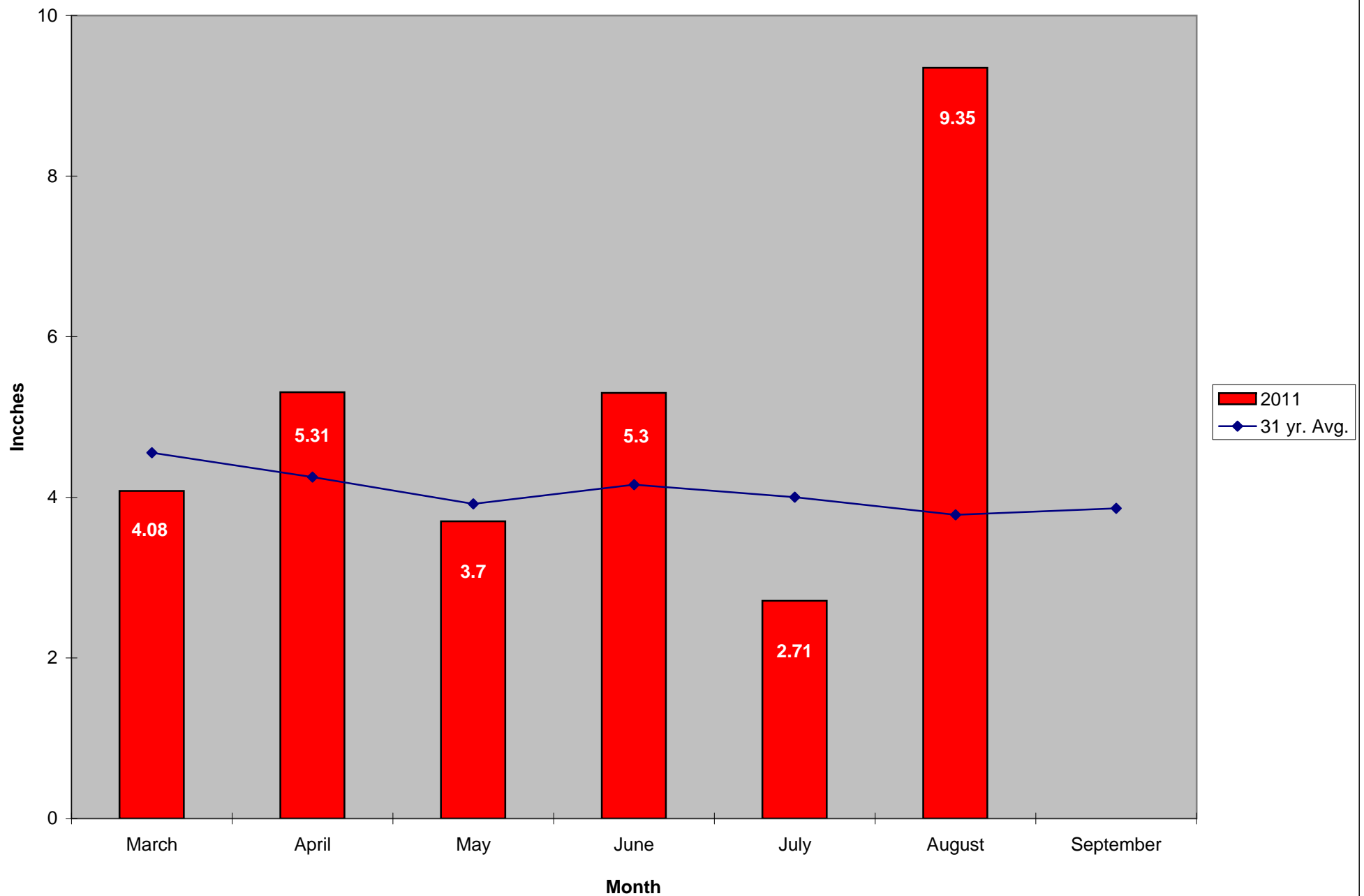
CMMCP Mosquito Summary*-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+687.5%	-69.04%	Uxbridge, Northbridge
<i>Coquillettidia perturbans</i>	-60.87%	+200.0%	Leominster
<i>Culiseta melanura</i>	+64.04%	+2238%	Millbury, Northbridge
<i>Ochlerotatus canadensis</i>	+3125%	+ ∞	Uxbridge
<i>Culex</i> Species	-50.68%	+92.86%	Billerica, Westford
All Species	+129.7%	+113.3%	Uxbridge

The predominant mosquito for the week was *Ochlerotatus trivittatus*
followed by *Psorophora ferox*.

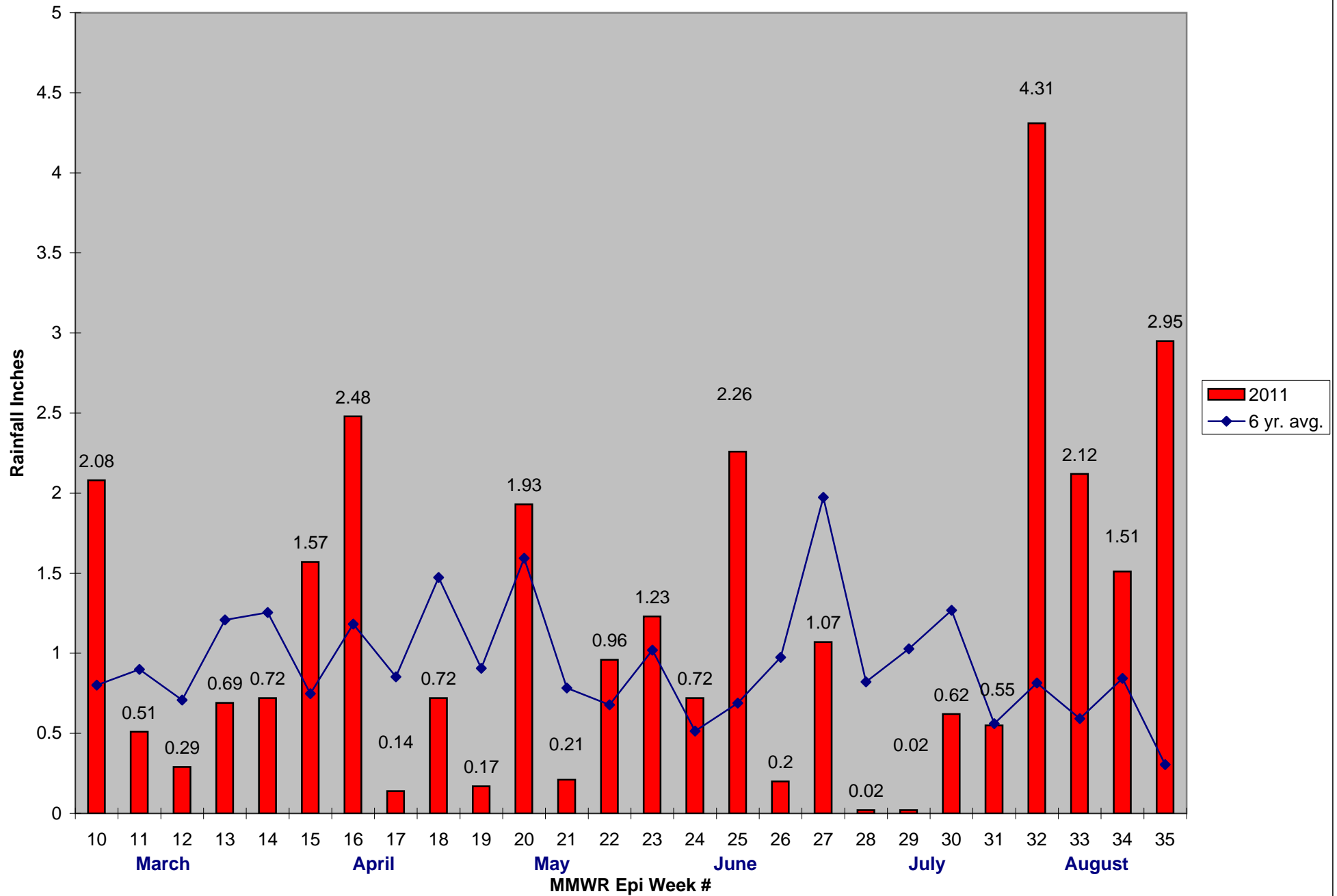
*Seasonal numbers may contribute to these comparisons being not as significant as they appear

2011 Mass. Rainfall Data vs. 31 Year Average*



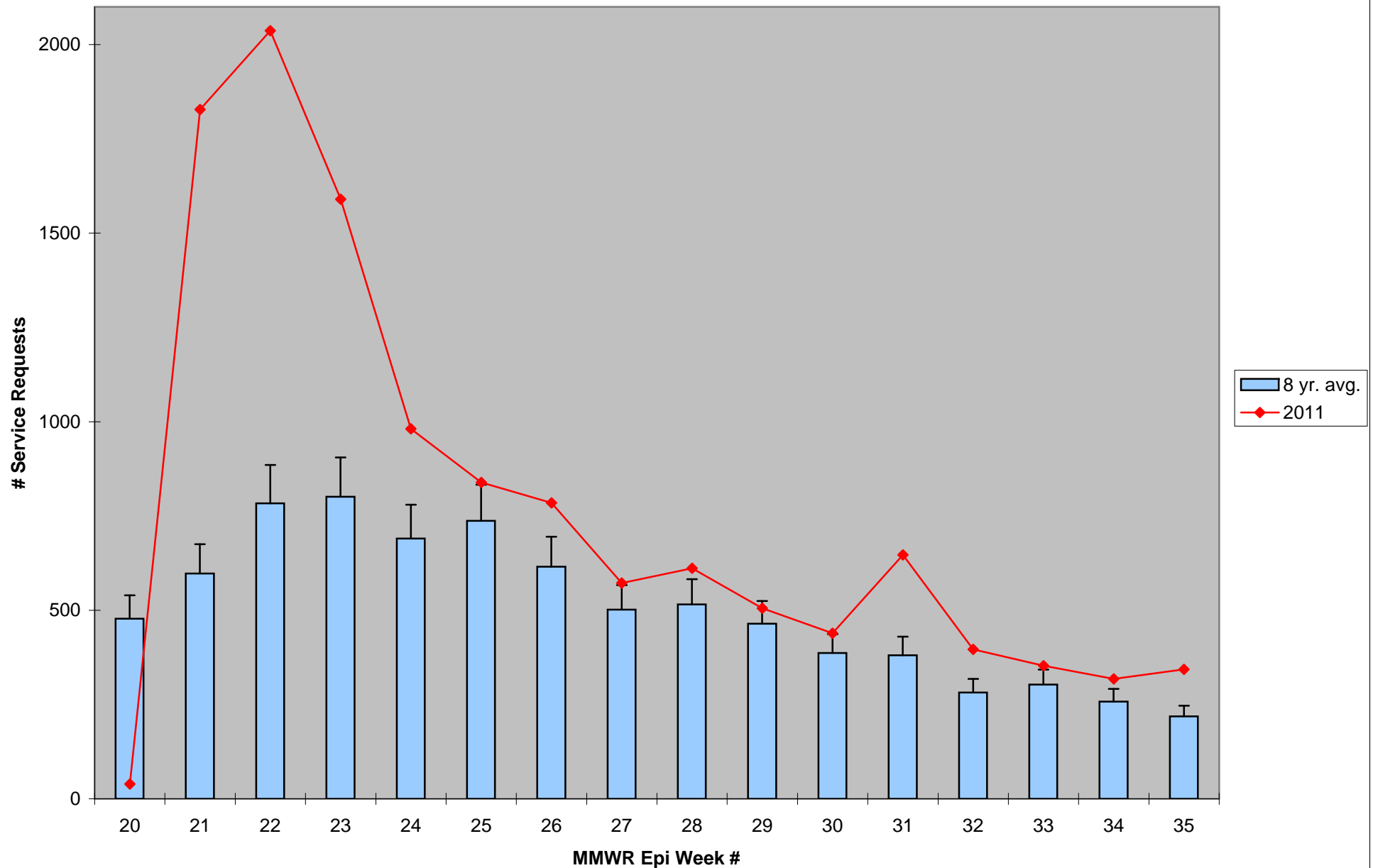
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

2011 CMMCP Weekly Rainfall vs. 6 Year Average*



*Source: CMMCP Weather Station - Northborough, MA

ULV Service Request History Comparison 2003-2011



Error bars show approx. number of requests if we had 39 cities and towns over the 8 year average

2011 Rainfall vs. Requests

