

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #38
Sep. 19 – 25, 2010

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Central Mass. Mosquito Control Project
Weekly Report- 9/19/10-9/25/10
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	85	272	189	73	771	2702
Total Specimens	1634	8651	693	421	9269	26509
No. Pools WNV +	0	0	0	0	10 [†]	10 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

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

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquillettidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/9/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/14/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/15/10

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Horse in Hudson tested positive for WNV, onset date of 9/17/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Human in Worcester tested positive for WNV, onset date of 8/25/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 66.7°F with a recorded high temperature of 85.6°F and a recorded low temperature of only 40.3°F. For this week there was a total of 0.01 inches of rain observed. Compared to the previous week, it was approximately 6.8°F warmer on average, and rained 0.28 inches less. There has been 0.77 inches of rain accumulated in September. August finished with 2.50 inches of rain in the CMMCP area (4.25 statewide), while July and June finished with 1.48 inches and 3.89 inches respectively. Standard spray operations have ceased due to low service requests and predominant weather patterns. Vector control will be available if needed according to weather conditions and other factors. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP Mosquito Summary-

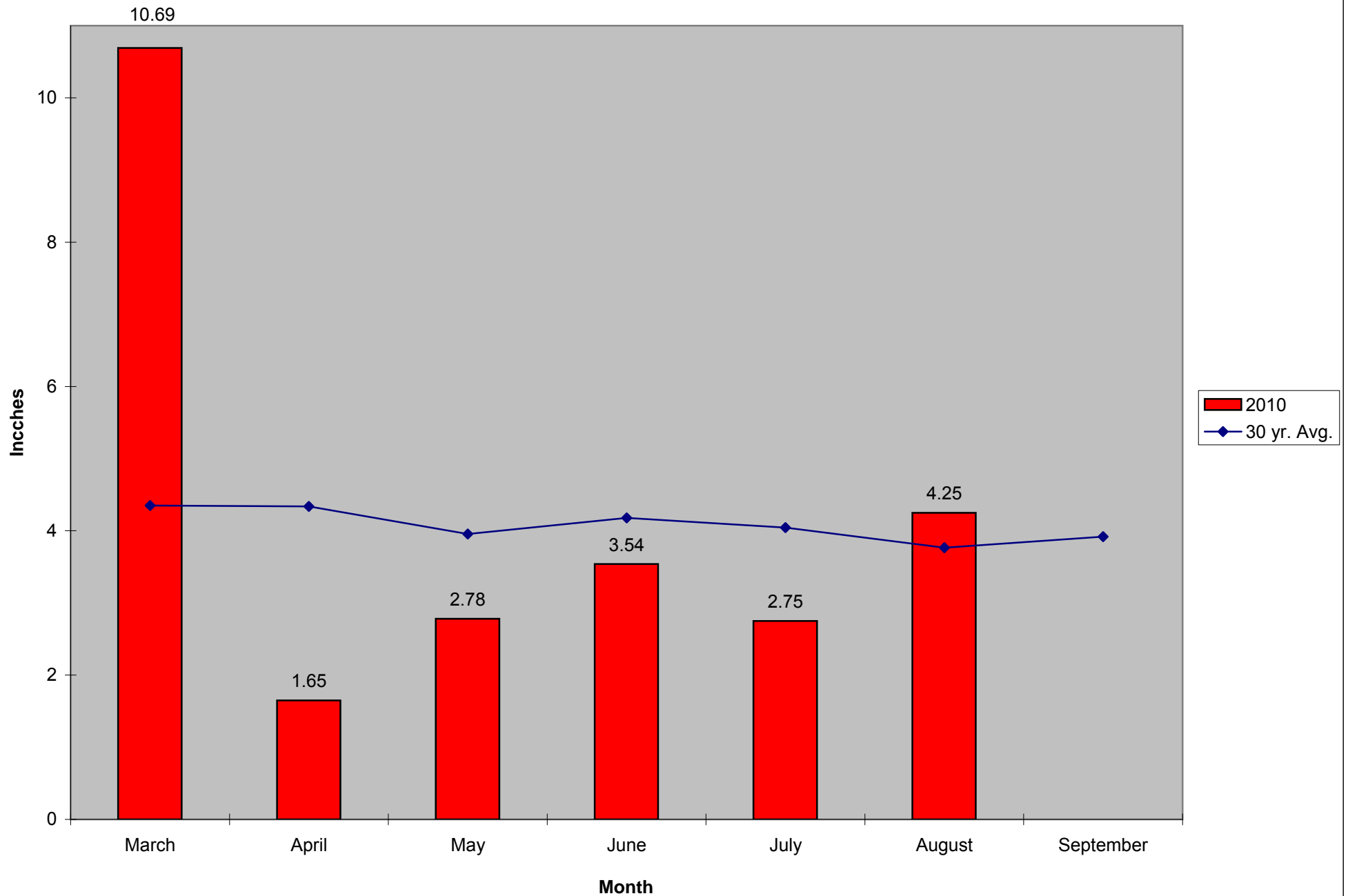
Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
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<i>Aedes vexans</i> *	+228.2%	+2613%	Chelmsford
<i>Coquillettidia perturbans</i> *	-66.67%	+200.0%	Millbury
<i>Culiseta melanura</i> *	+33.33%	-95.77%	Fitchburg, Westborough
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-23.29%	-35.63%	Billerica
All Species	+46.08%	-3.51%	Chelmsford

The predominant mosquito for the week was *Aedes vexans*, followed by *Culex* Species.

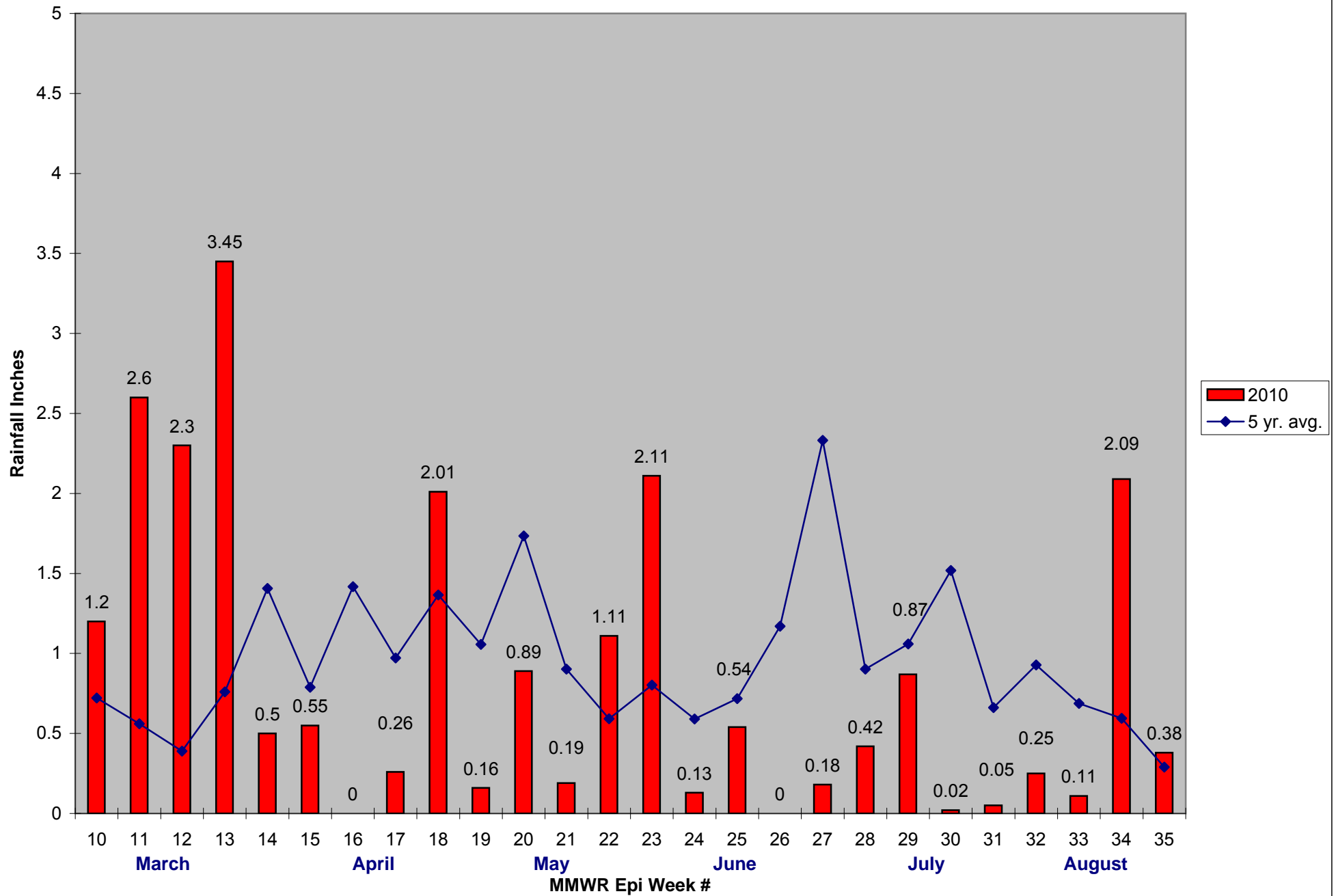
*Based on single digit specimens

2010 Mass. Rainfall Data vs. 30 Year Average*



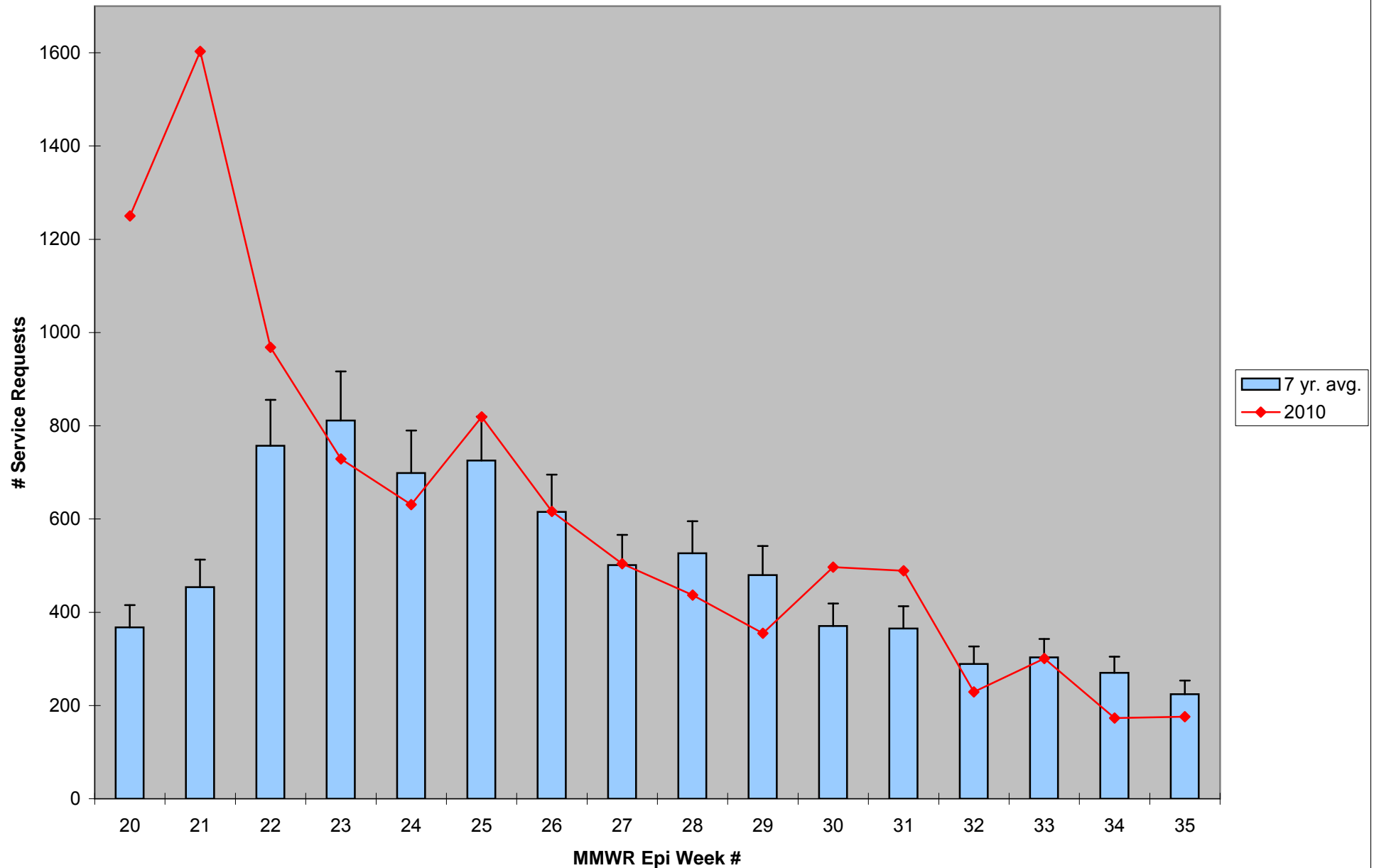
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

2010 CMMCP Weekly Rainfall vs. 5 Year Average*



*Source: CMMCP Weather Station - Northborough, MA

ULV Service Request History Comparison 2003-2010



Error bars show approx. number of requests if we had 38 cities and towns over the 7 year average

2010 Rainfall vs. Requests

