

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #35
Aug. 26 – Sep. 1, 2012

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Central Mass. Mosquito Control Project
Weekly Report- 8/26/12-9/1/12
EPI Week #35

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	48	292	219	88	858	2476
Total Specimens	298	8101	1652	386	19385	33440
No. Pools WNV +	1 [†]	2 [†]	1 [†]	0	41 [†]	45 [†]
No. Pools EEE +	0	2 [†]	2 [†]	0	2 [†]	6 [†]

[†]Pool of EEE+ *Culex* Species collected in Westborough on 7/17/12

[†]Pool of WNV+ *Culex* Species collected in Shrewsbury on 7/18/12

[†]Pool of WNV+ *Culex* Species collected in Tewksbury on 7/20/12

[†]Pool of WNV+ *Culex* Species collected in Westford on 7/25/12

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 7/25/12

[†]Pool of EEE+ *Culex* Species collected in Westborough on 7/27/12

[†]Pool of WNV+ *Culex* Species collected in Westborough on 7/31/12

[†]Pool of WNV+ *Culex* Species collected in Boylston on 7/31/12

[†]Pool of WNV+ *Culex* Species collected in Fitchburg on 7/31/12

[†]Pool of EEE+ *Culiseta melanura* collected in Westborough on 8/2/12

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 8/2/12

[†]Pool of WNV+ *Culex* Species collected in Dracut on 8/3/12

[†]Pool of WNV+ *Culex* Species collected in Leominster on 8/3/12

Pool of WNV+ *Culex pipiens/restuans* collected in Worcester on 8/3/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Dracut on 8/7/12

[†]Pool of WNV+ *Culex* Species collected in Millbury on 8/7/12

[†]Pool of WNV+ *Culex* Species collected in Lunenburg on 8/7/12

[†]Pool of WNV+ *Culiseta melanura* collected in Wilmington on 8/7/12

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

[†]Pool of WNV+ *Culex* Species collected in Shrewsbury on 8/9/12

[†]Pool of WNV+ *Culex* Species collected in Hopedale on 8/9/12

[†]Pool of EEE+ *Culiseta melanura* collected in Westborough on 8/9/12

[†]Pool of EEE+ *Coquillettidia perturbans* collected in Westborough on 8/9/12

[†]Pool of WNV+ *Culex* Species collected in Northborough on 8/10/12

[†]Pool of WNV+ *Culex* Species collected in Marlborough on 8/14/12

[†]Pool of WNV+ *Culex* Species collected in Hudson on 8/14/12

[†]Pool of EEE+ *Coquillettidia perturbans* collected in Hopkinton on 8/14/12

[†]Pool of WNV+ *Culex* Species collected in Westborough on 8/14/12

[†]Pool of WNV+ *Culex* Species collected in Ashland on 8/14/12

[†]Pool of WNV+ *Culex* Species collected in Hopkinton on 8/14/12

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/15/12

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/15/12

[†]Pool of WNV+ *Culex* Species collected in Blackstone on 8/16/12

[†]Pool of WNV+ *Culex* Species collected in Westford on 8/16/12

- †Pool of WNV+ *Culex* Species collected in Billerica on 8/16/12
- †Pool of WNV+ *Culex* Species collected in Chelmsford on 8/16/12
- †Pool of WNV+ *Coquillettidia perturbans* collected in Millbury on 8/17/12
- †Pool of WNV+ *Culex* Species collected in Tewksbury on 8/17/12
- †Pool of WNV+ *Culex* Species collected in Leominster on 8/17/12
- †Pool of WNV+ *Culex* Species collected in Auburn on 8/21/12
- †Pool of WNV+ *Culex* Species collected in Auburn on 8/21/12
- †Pool of WNV+ *Culex* Species collected in Lunenburg on 8/21/12
- †Pool of WNV+ *Culex* Species collected in Billerica on 8/22/12
- †Pool of WNV+ *Culex* Species collected in Northbridge on 8/22/12
- †Pool of WNV+ *Culex* Species collected in Tewksbury on 8/22/12
- †Pool of WNV+ *Culex* Species collected in Chelmsford on 8/23/12
- †Pool of WNV+ *Culex* Species collected in Boxborough on 8/23/12
- †Pool of WNV+ *Culex* Species collected in Stow on 8/24/12
- †Pool of WNV+ *Culex* Species collected in Westborough on 8/24/12
- †Pool of WNV+ *Culex* Species collected in Auburn on 8/24/12
- †Pool of WNV+ *Coquillettidia perturbans* collected in Auburn on 8/24/12
- †Pool of WNV+ *Aedes vexans* collected in Auburn on 8/24/12

Weather Summary (Northborough, MA): The weather for this particular week averaged 71.03°F with a recorded high temperature of 88.40°F and a recorded low temperature of only 51.40°F. For this week there was also a total of 0.03 inches of rain observed. Compared to the previous week, it was approximately 0.54°F warmer on average, and rained about 0.06 inches less. There was 1.60 inches of rain accumulated in August, while the total rainfall for the month of July was 2.48 inches at the CMMCP weather station (2.78" statewide avg.). For the year we have received 45% more requests than average; 11,725 requests to date compared to the 9 year average of 8,056. Requests were 4% less than the 2011 totals for the same time frame, 12,244 in 2011 against 11,725 in 2012. Service requests decreased 46% from EPI week 34 to Epi week 35 for 2012 (899 vs. 616).

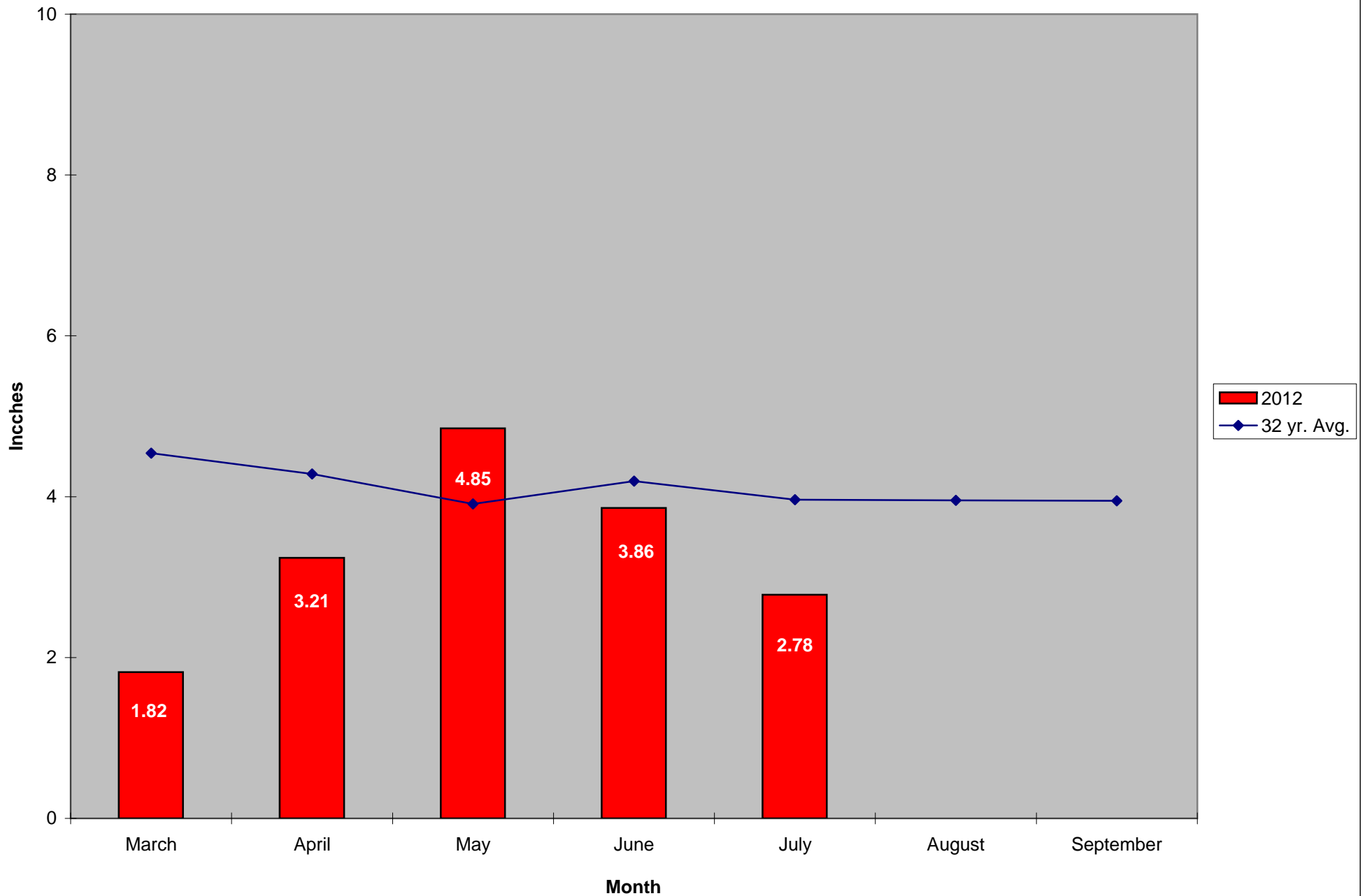
CMMCP Mosquito Summary*-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-33.33%	-95.65%	Milford
<i>Coquillettidia perturbans</i>	-57.26%	+562.5%	Sherborn
<i>Culiseta melanura</i>	-47.06%	-41.94%	Hopedale
<i>Ochlerotatus canadensis</i>	-100.0%	-100.0%	N/A
<i>Culex</i> Species	+25.51%	+154.6%	Hopedale, Acton
All Species	+8.31%	+63.21%	Hopedale, Acton

The predominant mosquito for the week was *Culex* Species.

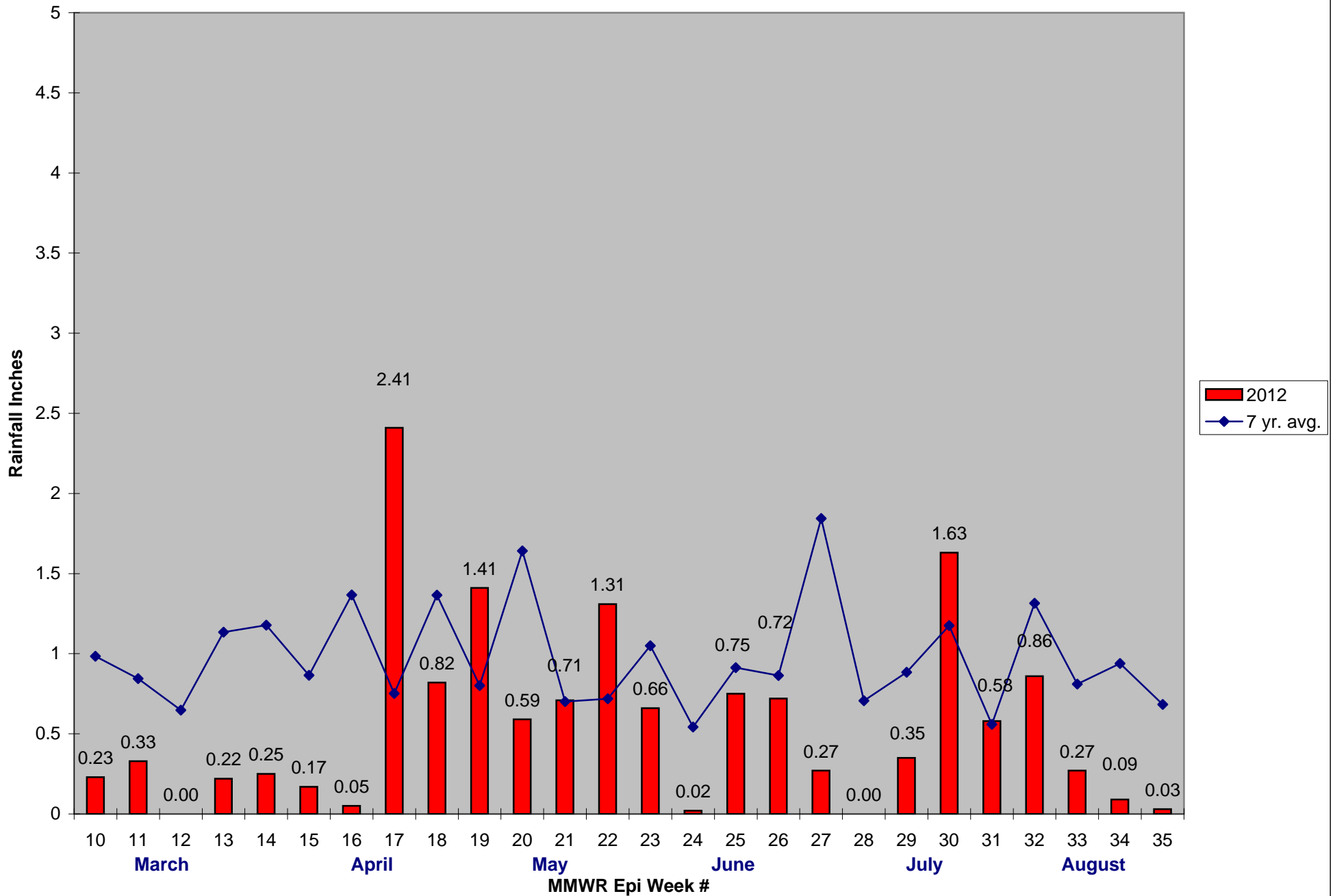
* Seasonal numbers may contribute to these comparisons being not as significant as they appear

2012 Mass. Rainfall Data vs. 32 Year Average*



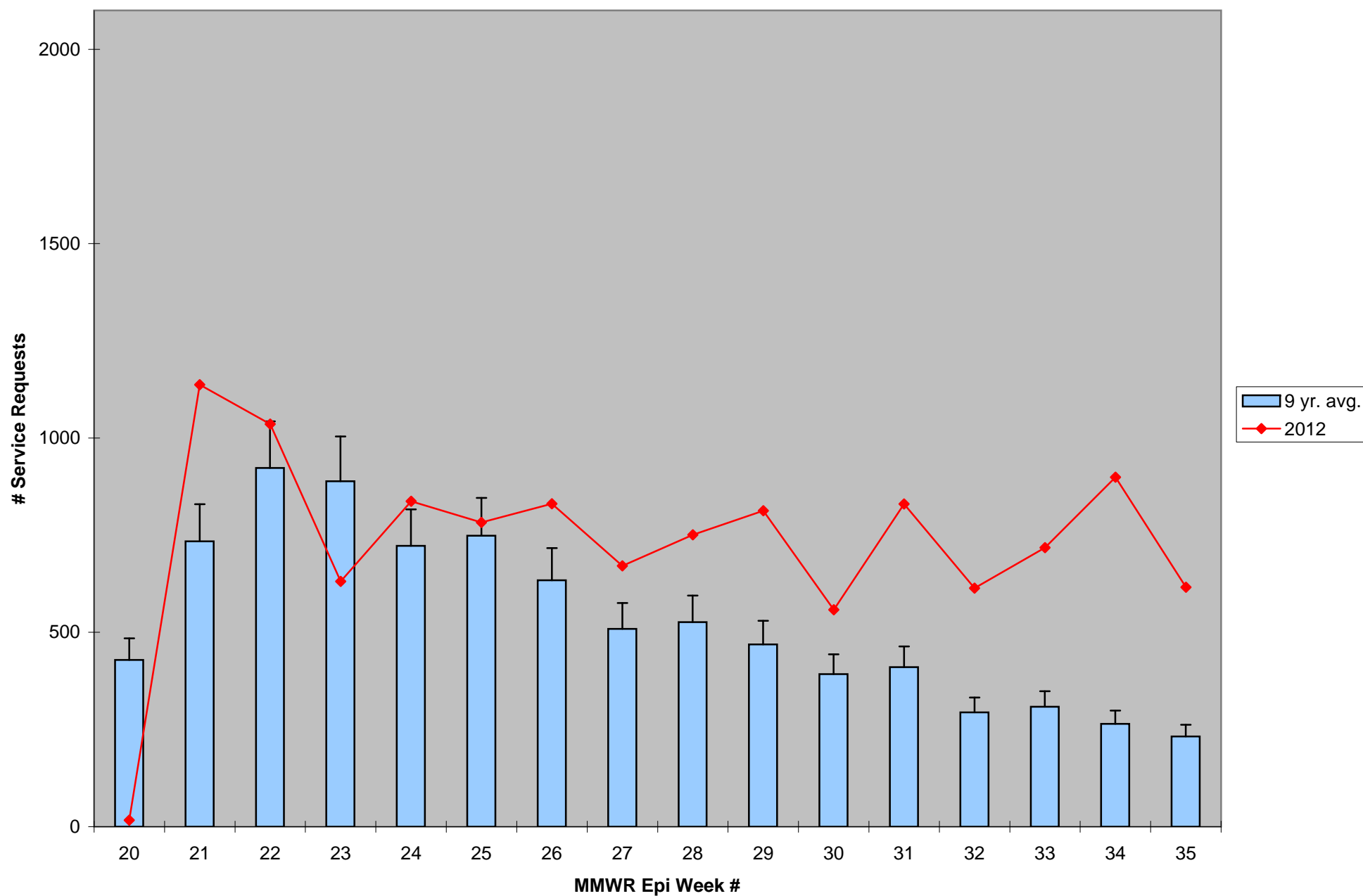
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

2012 CMMCP Weekly Rainfall vs. 7 Year Average*



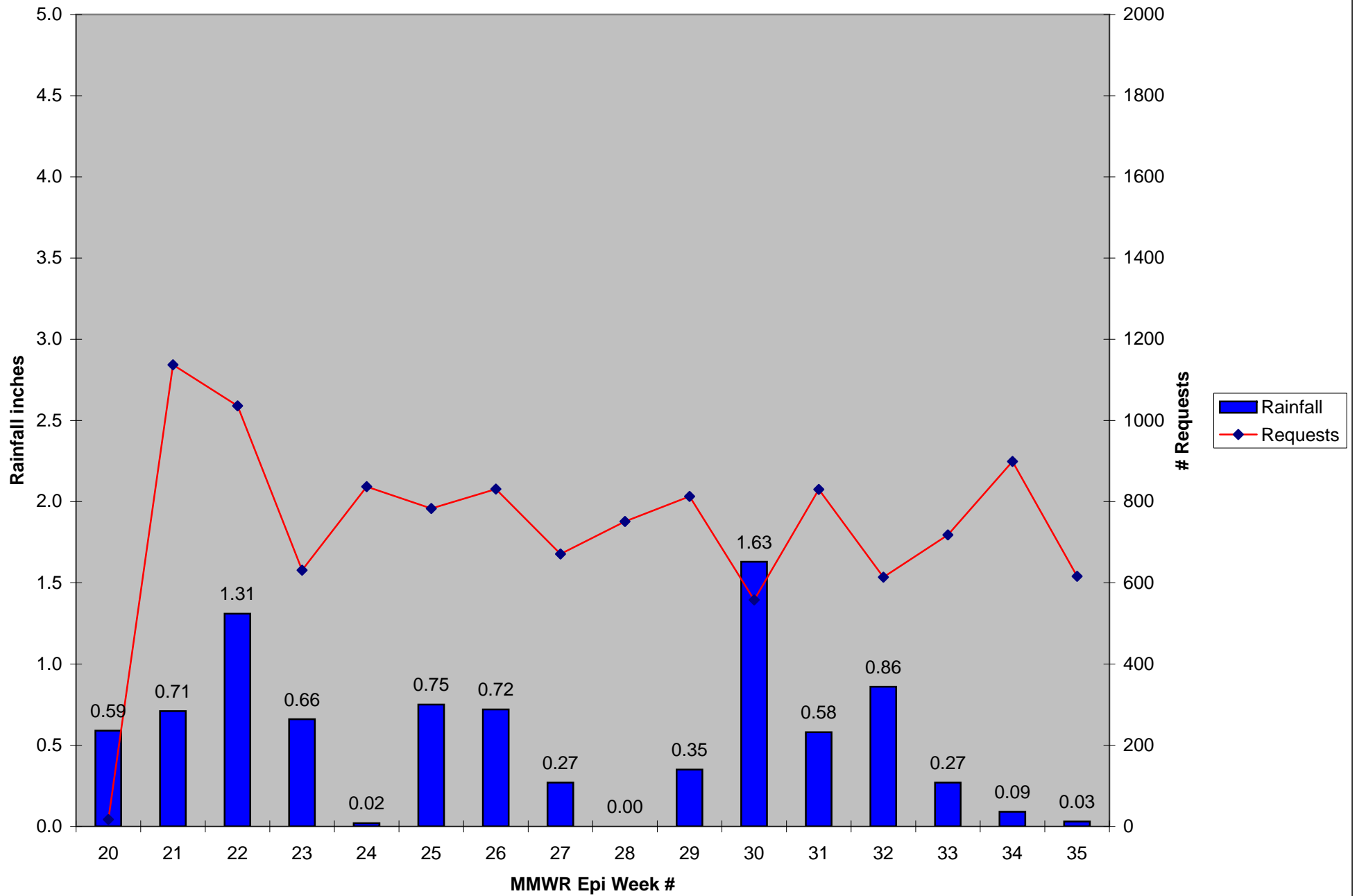
*Source: CMMCP Weather Station - Northborough, MA

ULV Service Request History Comparison 2003-2012



Error bars show approx. number of requests if we had 40 cities and towns over the 9 year average

2012 Rainfall vs. Requests



2012 Temp vs. Requests

