

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #30
July 22-28, 2007

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Central Mass. Mosquito Control Project
Weekly Report- 7/22/07-7/28/07
MMWR Week #30

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	53	276	159	179	345	1840
Total Specimens	296	16449	930	1072	4524	25730
No. Pools WNV +	0	0	0	0	1*	1*
No. Pools EEE +	0	0	0	0	0	0

* Positive WNV pool of *Culex pipiens/restuans* found in Marlborough DPH trap set
7/29/07

Weather Summary (Northborough, MA): The weather for this week averaged 72.41°F, which was .78°F warmer than the prior week. The recorded high temperature was 91.8°F with a recorded low temperature of only 57.0°F. There was 1.11 inches of precipitation this week compared to 0.66 inches of rain observed last week. The cumulative rainfall for the month of July has been 5.0 inches (rainfall total for June was 2.90 inches).

CMMCP Weekly Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-50.00%	+56.00%	Chelmsford
<i>Coquillettidia perturbans</i>	+40.53%	+32.94%	Westborough, Wilmington
<i>Culiseta melanura</i>	-7.04%	+10.00%	Millbury
<i>Ochlerotatus canadensis</i>	-35.71%	-45.45%	Westford
<i>Culex</i> Species	+47.09%	+20.63%	Hopedale
All Species	+35.44%	+28.17%	Hopedale, Westborough

The predominant mosquito species for the week was *Coquillettidia perturbans*.

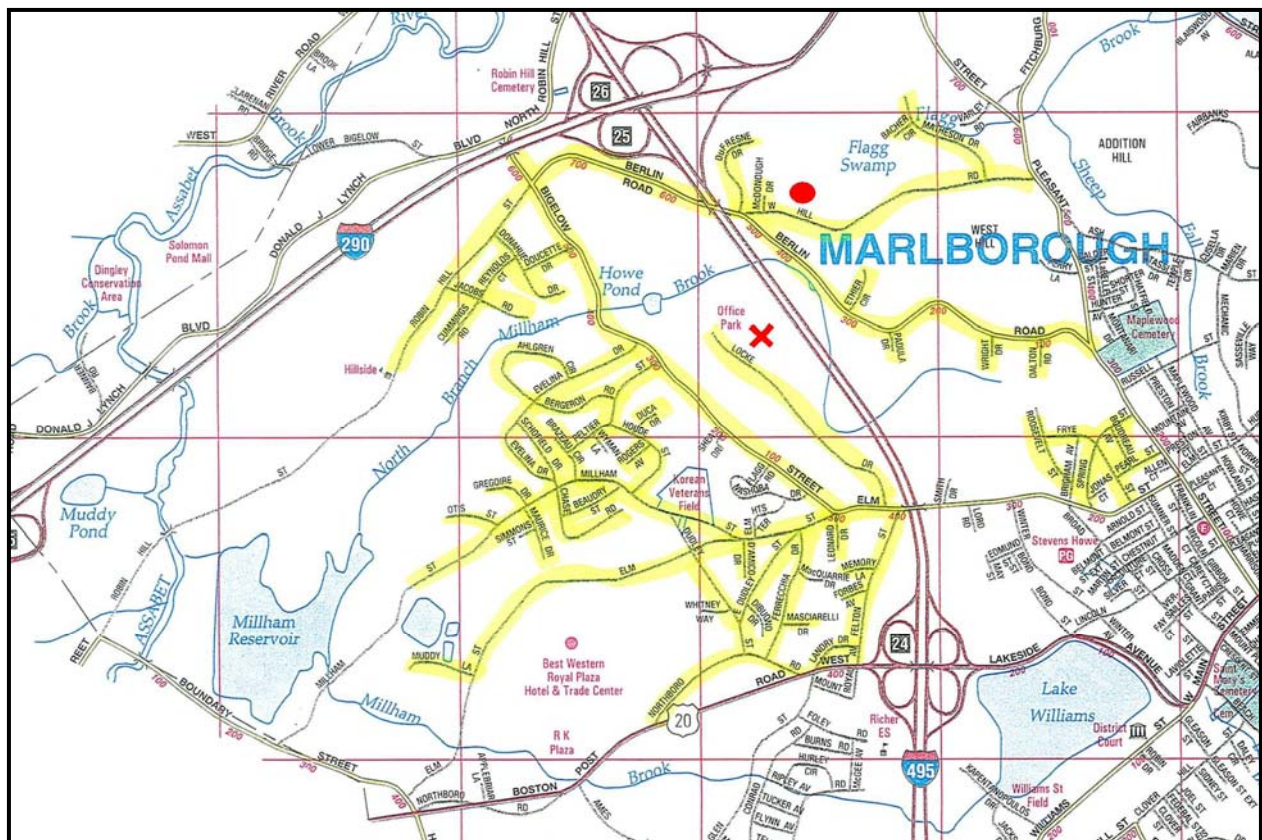
Service requests were down 46% from the previous week according to the CMMCP Request Database.

WEST NILE VIRUS INTERVENTION NARRATIVE – MARLBORO, MA

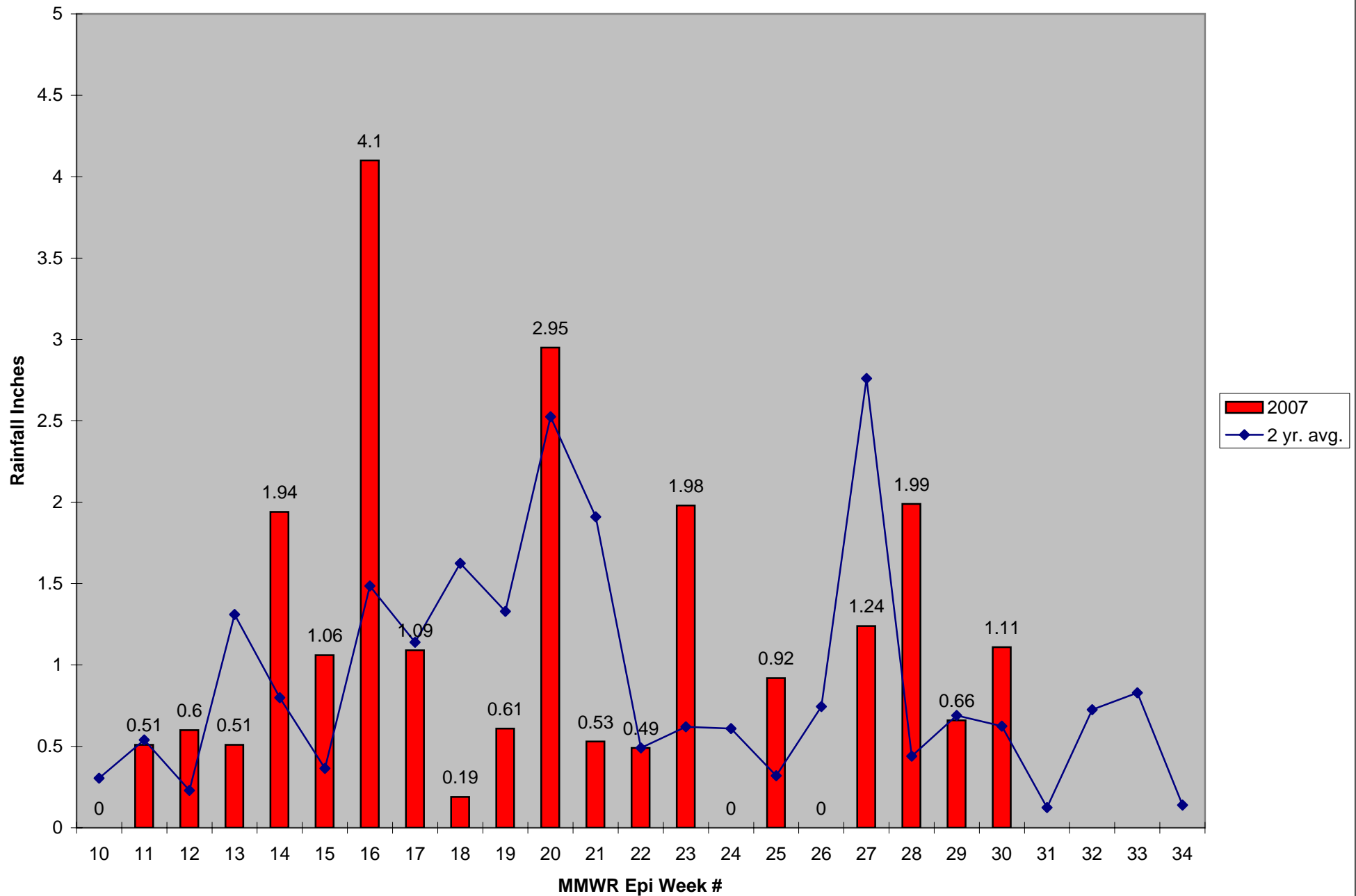
On July 26, 2007 the Mass. Dept. of Public Health (MDPH) confirmed that a bird collected on July 24 on West Hill Road (red circle) tested positive for West Nile Virus (WNV). The Central Mass. Mosquito Control Project coordinated with MDPH and placed additional surveillance traps in the area the bird was found. CMMCP also expanded its treatment of catch basins in that area to reduce the larval population of *Culex* species and other mosquito species that prefer these areas for larval development. No spraying in this area was done at that time. A press release from MDPH was sent to all media outlets.

On August 1, 2007 MDPH confirmed that a collection of adult *Culex* mosquitoes collected July 30 on Locke Drive (red X) tested positive for West Nile Virus.

Areas around the surveillance traps were sprayed after sunset between 9pm and midnight on the evening of August 1, 2007 in coordination with the Marlborough Board of Health. The product used for spraying by CMMCP was sumithrin (d-phenothrin). Additional treatments in the same area will be done on the evenings of August 3 and 5.

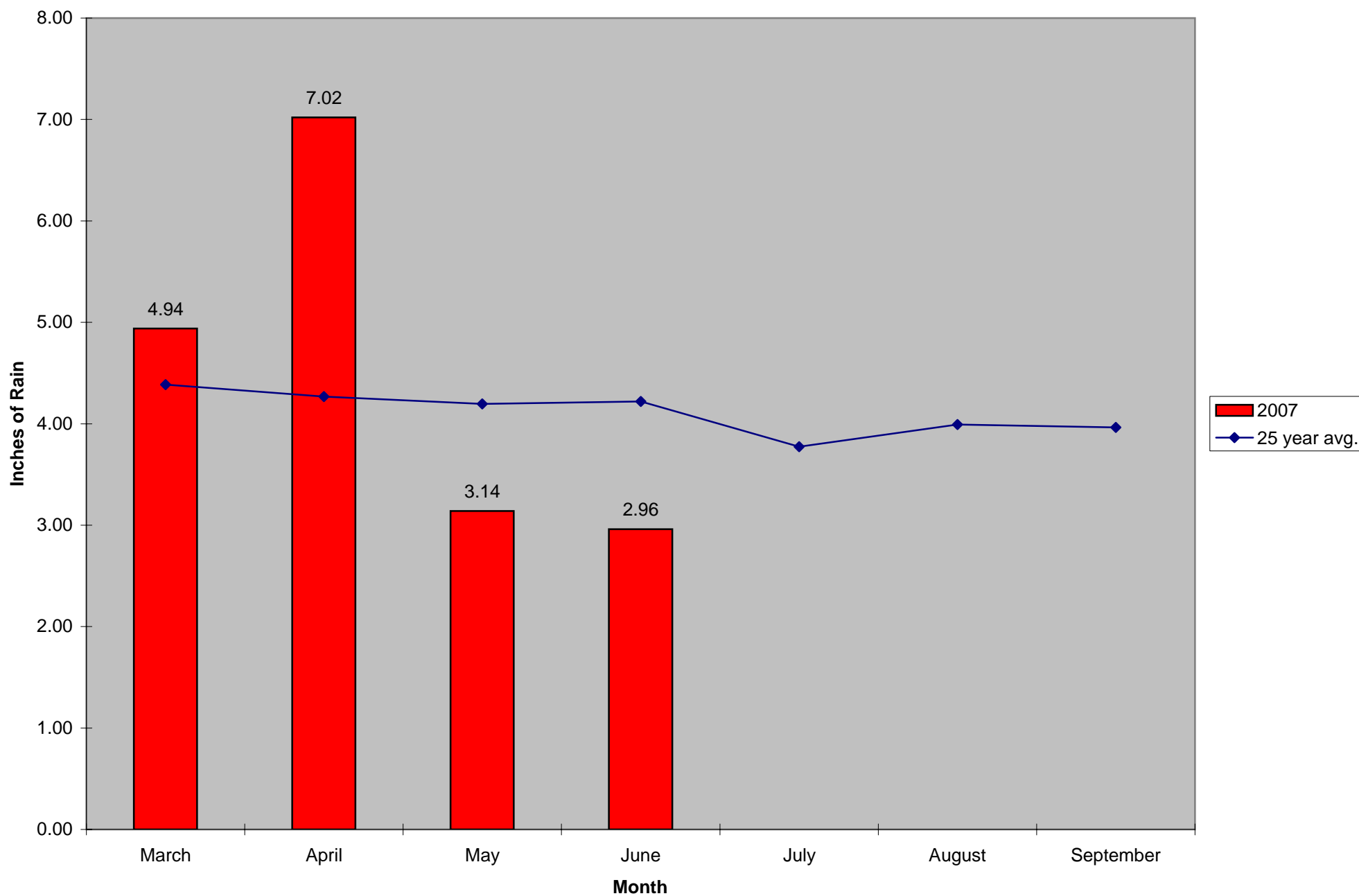


2007 CMMCP Weekly Rainfall vs. 2 Year Average*



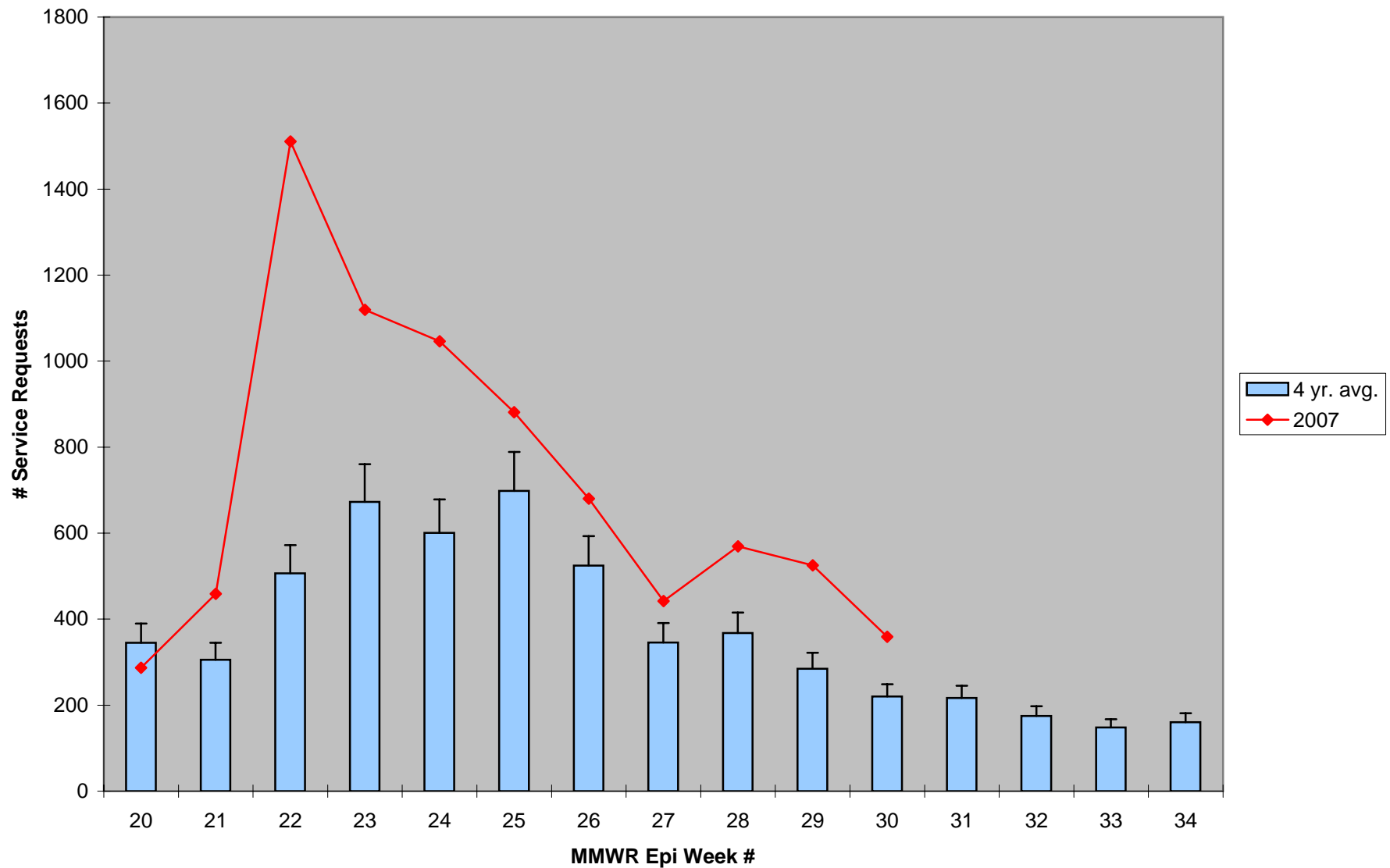
*Source: CMMCP Weather Station - Northborough, MA

2007 Mass. Rainfall Data vs. 25 Year Average*



*Source: http://www.nrcc.cornell.edu/climate/Climate_summary.html

ULV Service Request History Comparison 2003-2007



Standard deviation +13%

Source: CMMCP Request Database

39 towns 2007: 36 towns 2003-2006