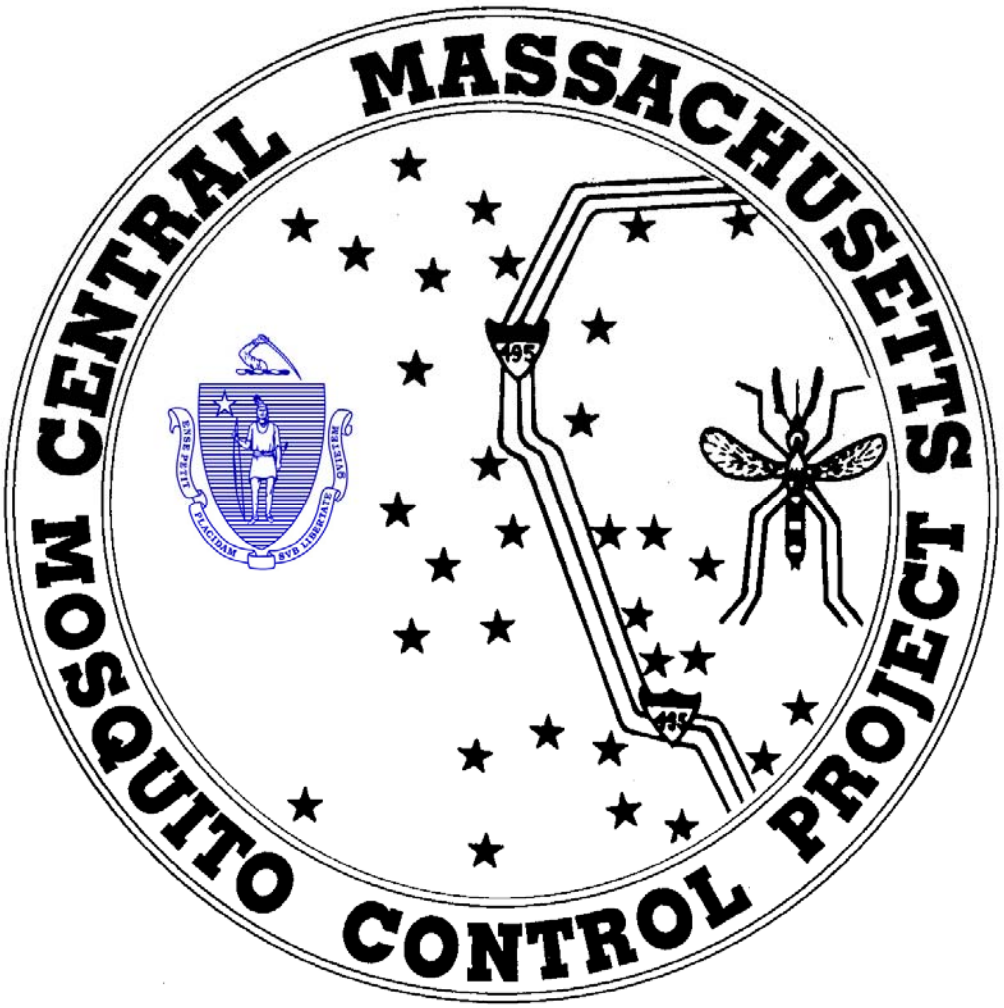
CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #22
May 28 – Jun. 3, 2017

Frank Cornine, *Field Biologist*
Curtis Best, *Staff Entomologist*
David Mullins, *Field Biologist*
Tim McGlinchy, *Director of Operations*
Tim Deschamps, *Executive Director*

Central Mass. Mosquito Control Project
Weekly Report- 5/28/17-6/3/17
EPI Week #22

Cumulative Surveillance Summary

Target Species	*Ae. vex*	*Cq. per*	*Cs. mel*	*Oc. can*	*Culex*	All Species
No. Pools	0	0	6	4	15	62
Total Specimens	0	0	24	16	132	538
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 58.79°F with a recorded high temperature of 76.70°F and a recorded low temperature of only 43.70°F. For this week there was also a total of 0.35 inches of rain observed. Compared to the previous week, it was approximately 2.58°F cooler on average, and rained about 1.30 inches less. There has been 0.02 inches of rain accumulated in June, after 4.68 inches for the month of May.

CMMCP Mosquito Summary*-

Target Species	Δ From Last Year	Predominant Trap Site(s)
Aedes vexans	+00.00%	N/A
Coquillettidia perturbans	-100.0%	N/A
Culiseta melanura	+500.0%	Blackstone, Holliston
Ochlerotatus canadensis	-92.20%	Holliston, Tewksbury
Culex Species	+1000%	Hudson
All Species	-68.03%	Tewksbury, Hudson

The predominant mosquito for the week was *Culiseta morsitans* followed by *Culex* species.

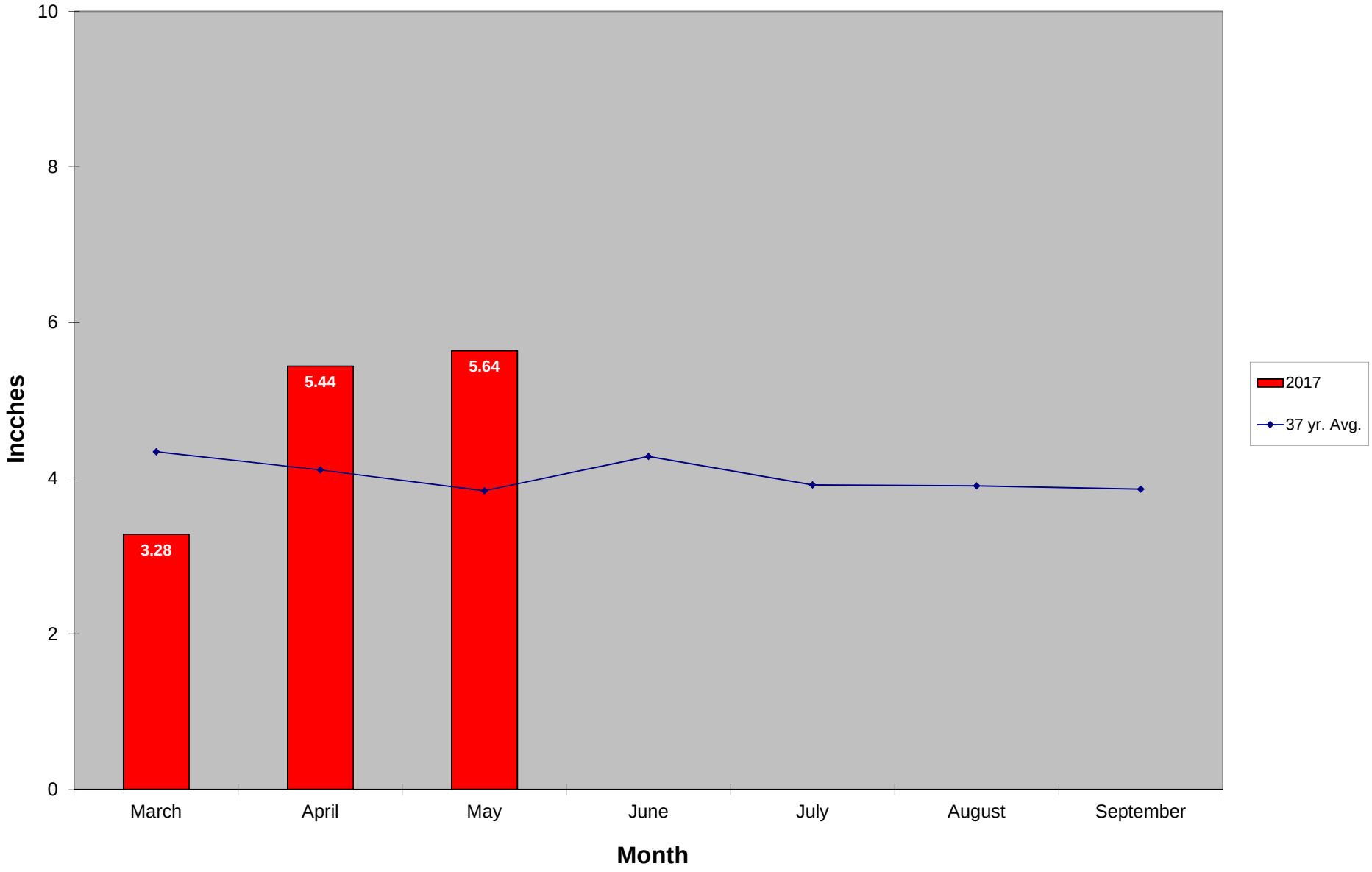
*Low early season numbers may contribute to these comparisons being not as significant as they appear

Weekly Narrative:
This was the first week of the 2017 CMMCP Mosquito Surveillance Program. The temperatures for EPI week 22 averaged 58.79°F, which was approximately three degrees cooler than the previous week. It also rained 0.35 inches, putting the final precipitation total for the month of May at 4.68 inches. Currently *Culiseta morsitans* is the predominant mosquito in the CMMCP service area, with *Culex species* second. There were significant *Ochlerotatus abserratus* collected in the surveillance traps as well. Increases in temperature coupled with additional emergence will likely cause surveillance collection numbers to rise as the season continues. Specimens collected in EPI week 23 will be pooled for arbovirus testing by the MDPH.

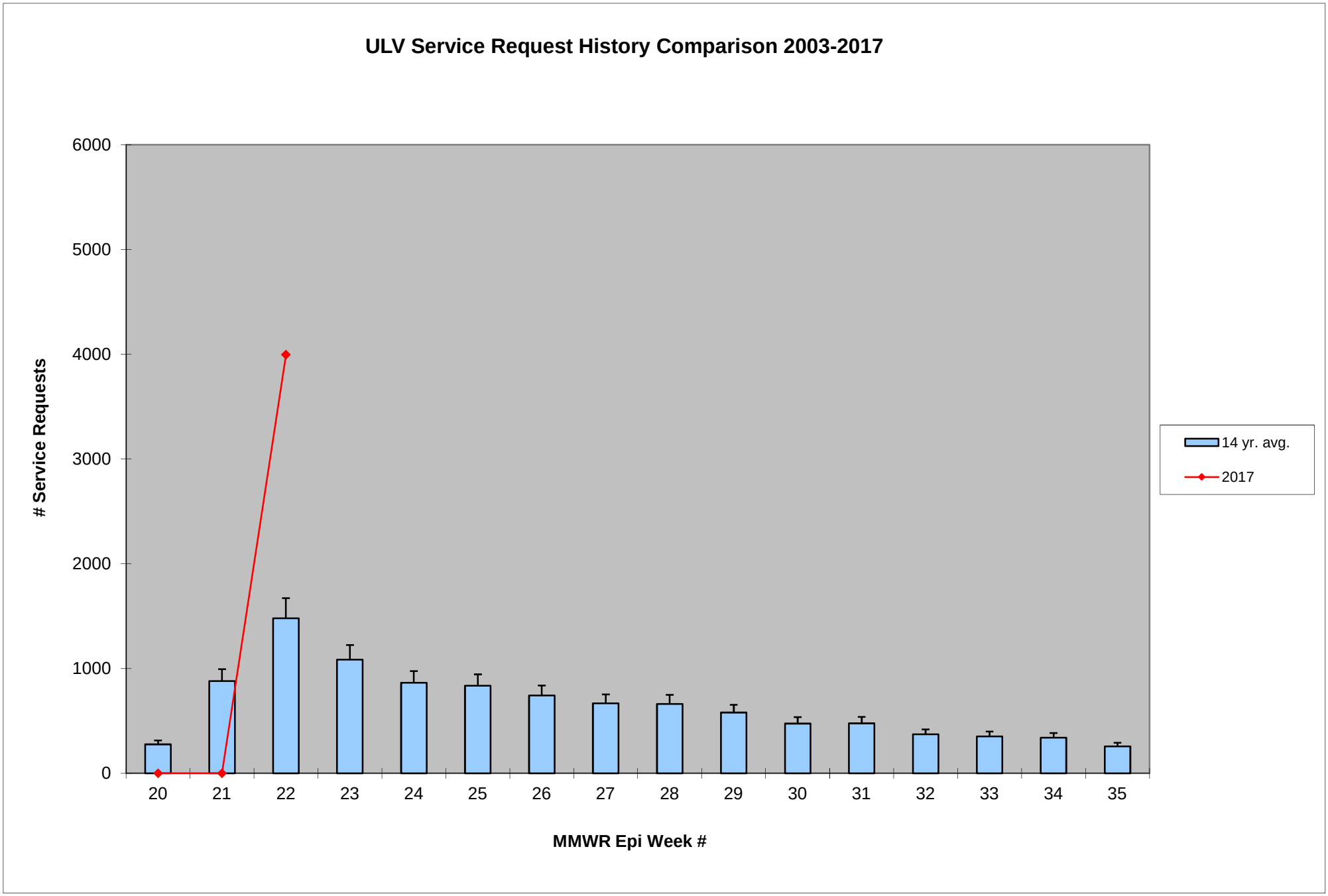
During our first week we received 270% more service requests than the 15 year average, but 44% less than this time in 2016. The standard adulticiding program will begin June 5 weather permitting.

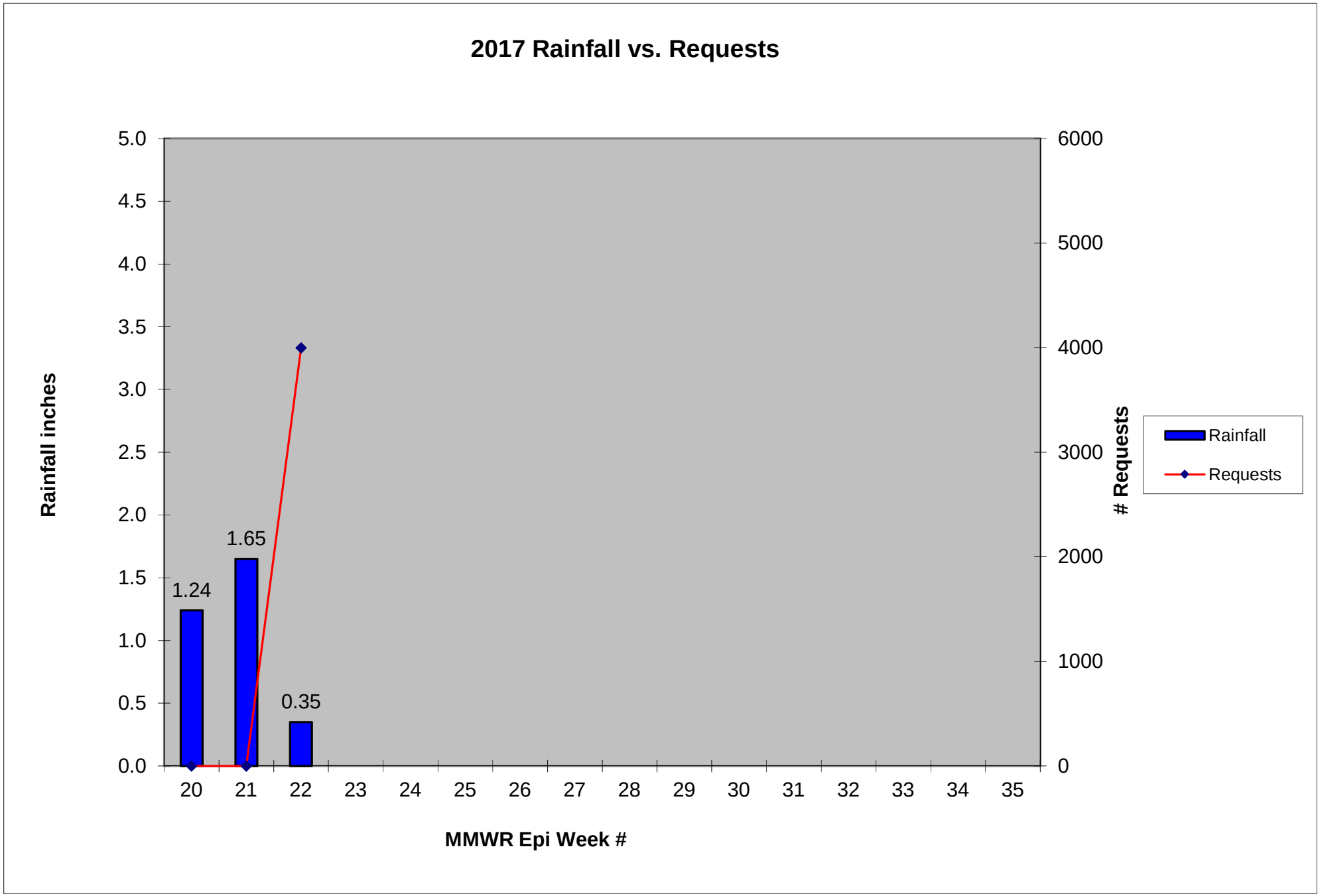
Early season catch basin treatments totaling 18,613 have begun in all member communities. We started in 2016 WNV areas, continued into our urban centers, and will spread out from there. Our tire program is on hiatus, but we collected 1,432 tires so far this year.

2017 Mass. Rainfall Data vs. 37 Year Average*



*source: http://www.nrcc.cornell.edu/regional/tables/tables.html


ULV Service Request History Comparison 2003-2017
Service Requests
6000
5000
4000
3000
2000
1000
0
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
MMWR Epi Week #
14 yr. avg.
2017


2017 Rainfall vs. Requests
Rainfall inches
Requests
MMWR Epi Week #
Rainfall
Requests
1.24
1.65
0.35
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
6000
5000
4000
3000
2000
1000
0
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35