

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #26
Jun. 25 – Jul. 1, 2017

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Central Mass. Mosquito Control Project
Weekly Report- 6/25/17-7/1/17
EPI Week #26

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	24	78	15	120	205	954
Total Specimens	79	1598	42	2520	2662	9562
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 68.43°F with a recorded high temperature of 89.20°F and a recorded low temperature of only 49.40°F. For this week there was also a total of 0.34 inches of rain observed. Compared to the previous week, it was approximately 6.16°F cooler on average, and rained about 0.23 inches more. There was 0.54 inches of rain accumulated in June, after 4.68 inches for the month of May.

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>	-75.00%	+200.0%	Tewksbury, Hudson
<i>Coquillettidia perturbans</i>	+267.1%	-95.36%	Tewksbury, Westborough
<i>Culiseta melanura</i>	-100.0%	-100.0%	N/A
<i>Ochlerotatus canadensis</i>	-25.08%	-63.45%	Auburn, Hopedale
<i>Culex</i> Species	-12.65%	+25.34%	Auburn, Natick
All Species	+25.12%	-86.97%	Tewksbury, Auburn

The predominant mosquito for the week was *Culex* species,
followed by *Coquillettidia perturbans*.

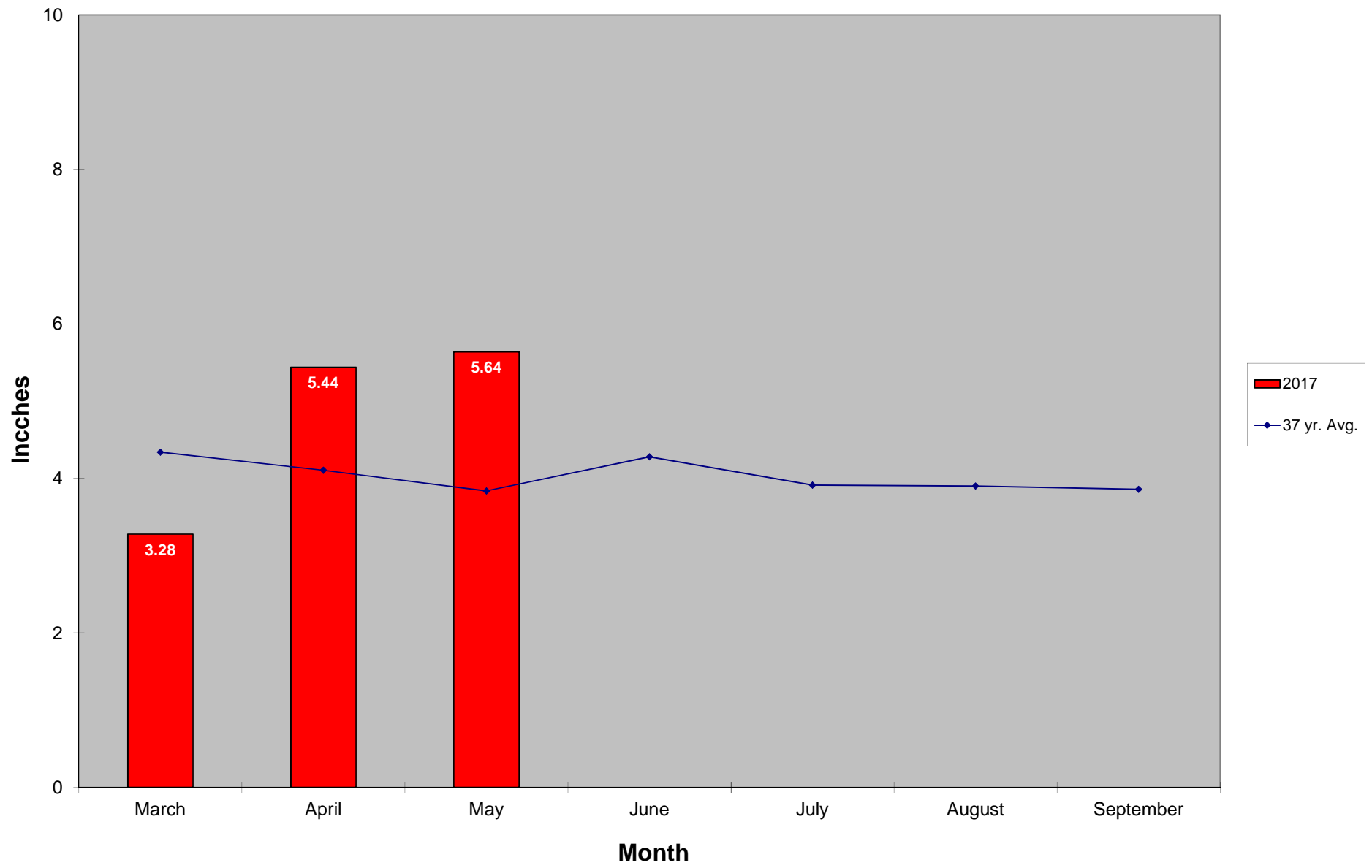
Week 26 narrative: The temperatures for EPI week 26 averaged approximately 6.16 degrees cooler than the previous week, with only 0.34 inches of precipitation observed. Overall collection numbers increased by 25.12% from EPI week 25, with the only target species increasing from the prior collection period being *Coquillettidia perturbans*. All other target species, *Aedes vexans*, *Culiseta melanura*, *Culex*, and *Ochlerotatus canadensis*, were collected in lower number from EPI week 25. *Culex* is now the most abundant mosquito in the CMMCP service area, with *Cq. perturbans* remaining the second most abundant. *Cq. perturbans* will likely become the most abundant mosquito during the month of July. Early season mosquito species continue to decline as the season moves forward.

We have received 227% more service requests than the 15 year average (11,374 in 2017 v. 5,005 15 yr. avg.), and 5.2% more than this time in 2016 (11,374 in 2017 v. 10,810 in

2016). Service requests dropped 25.1% from Epi week 26 v week 25. 1,111 service requests were received and 2,215 requests were performed in Epi week 26 with favorable weather conditions.

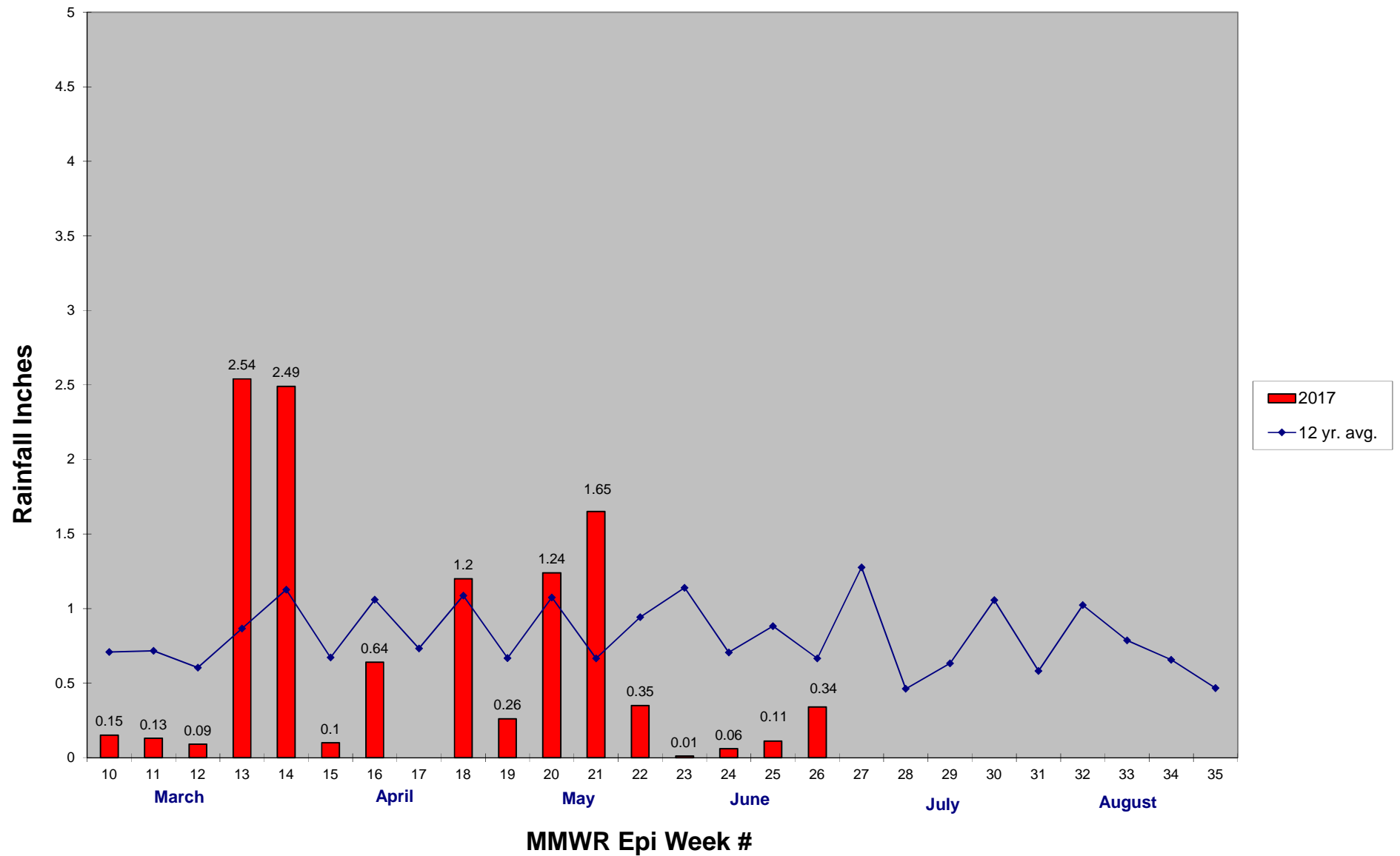
Early season catch basin treatments totaling 28,308 have ended in all member communities. We applied in last year's WNV areas and continued into our urban centers. Standard in-season treatments will begin in a few weeks. Our tire program is on hiatus, but we collected 1,432 tires so far this year. Our ditch maintenance and beaver mitigation programs are also on hiatus but a few projects are planned for this summer.

2017 Mass. Rainfall Data vs. 37 Year Average*



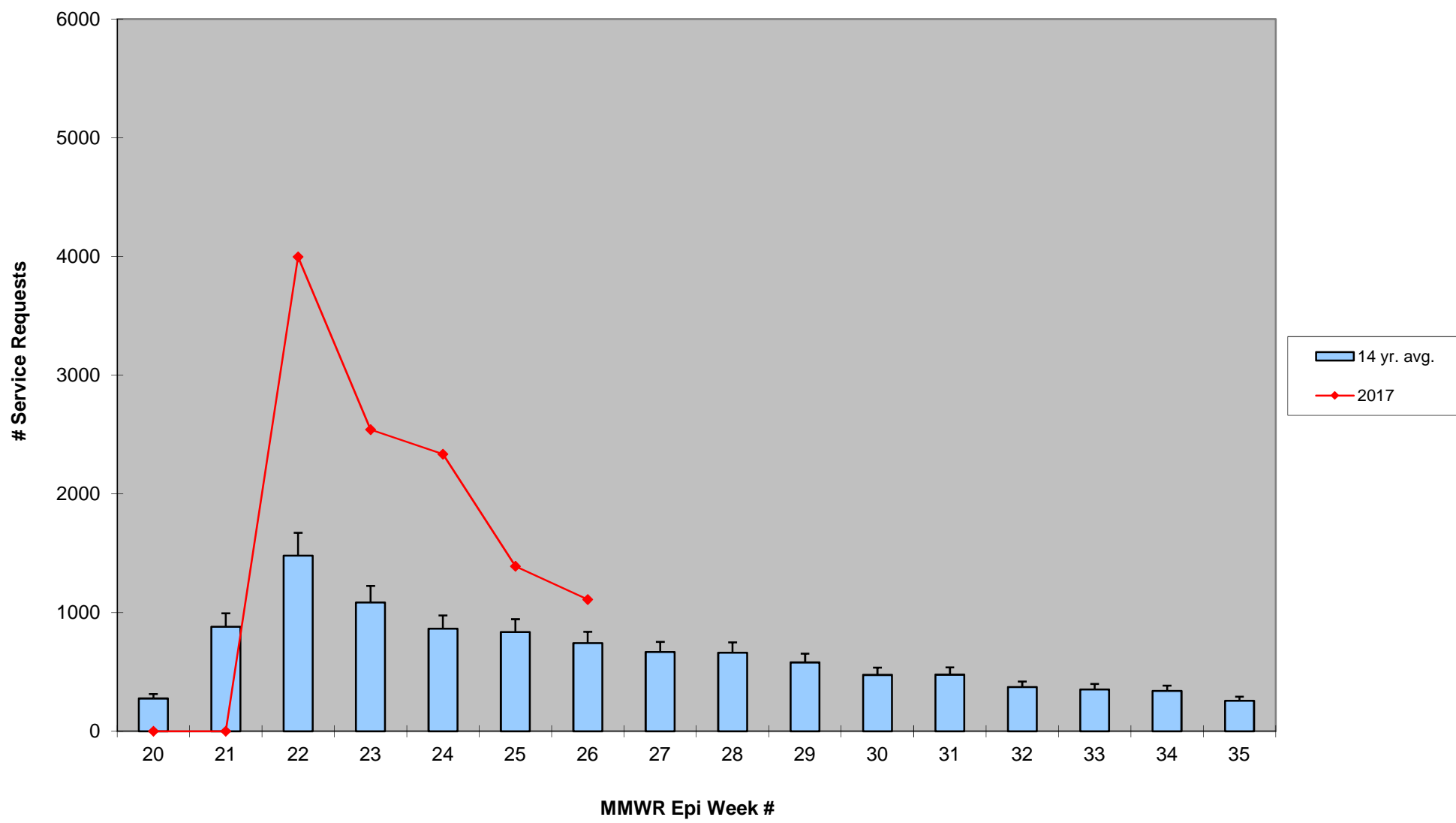
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2017 CMMCP Weekly Rainfall vs. 12 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2017



2017 Rainfall vs. Requests

