

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #30
Jul. 23-29, 2017

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Central Mass. Mosquito Control Project
Weekly Report- 7/23/17-7/29/17
EPI 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	35	197	31	156	493	1798
Total Specimens	108	7463	81	2896	7545	22560
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 65.17°F with a recorded high temperature of 83.5°F and a recorded low temperature of only 50.30°F. For this week there was also a total of 0.94 inches of rain observed. Compared to the previous week, it was approximately 11.49°F cooler on average, and rained about 0.91 inches more. There has been 2.04 inches of rain accumulated in July, after 0.54 inches for the month of June.

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>	-9.09%	+338.1%	Ayer, Hopedale
<i>Coquillettidia perturbans</i>	+29.23%	-81.93%	Ayer, Littleton, Hopkinton
<i>Culiseta melanura</i>	+41.67%	-89.04%	Shrewsbury
<i>Ochlerotatus canadensis</i>	-73.55%	-44.20%	Hopedale
<i>Culex</i> Species	+117.7%	+28.62%	Acton, Westford
All Species	+72.80%	-63.69%	Boxborough, Westford, Ayer

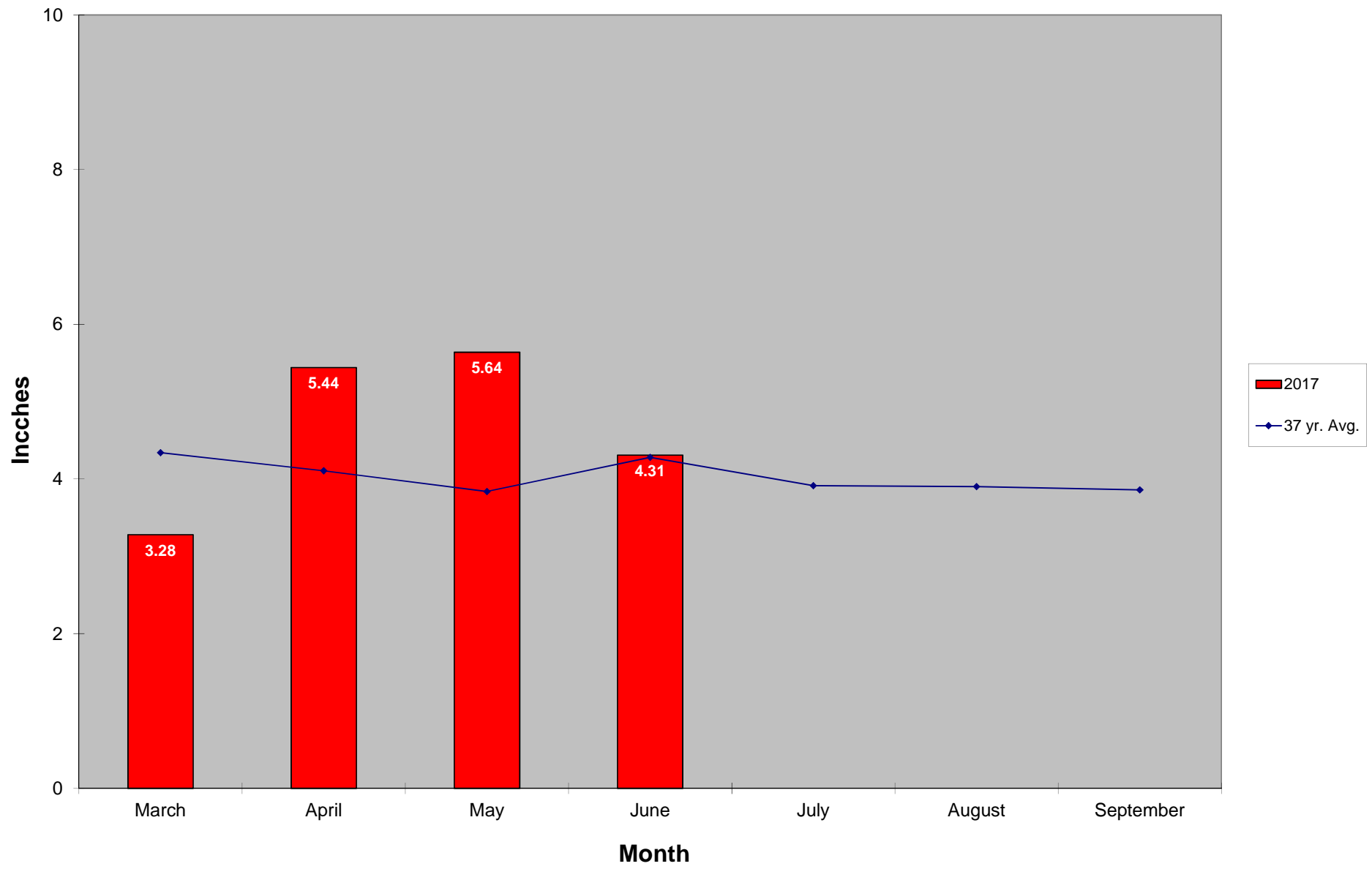
The predominant mosquito for the week was *Coquillettidia perturbans*, followed by *Culex* species.

Epi week #30 narrative:

The temperatures for EPI week 30 averaged approximately 11.49 degrees cooler than the previous week, with 0.94 inches of precipitation observed. Overall collection numbers increased by 72.80% from EPI week 29. The only target mosquito species not to increase from the prior collection period were *Aedes vexans* and *Ochlerotatus canadensis*. To this point in the season, all target species have been collected in lower numbers compared to 2016 aside from *Ae. vexans* and *Culex*. This week *Coquillettidia perturbans* was the most abundant mosquito in the CMMCP service area followed by *Culex*. It is anticipated that *Cq. perturbans* will remain the most abundant mosquito for EPI week 31. Ovitrap collected by CMMCP this week produced 326 eggs for *Aedes albopictus* surveillance with no confirmations to date of the presence of this species.

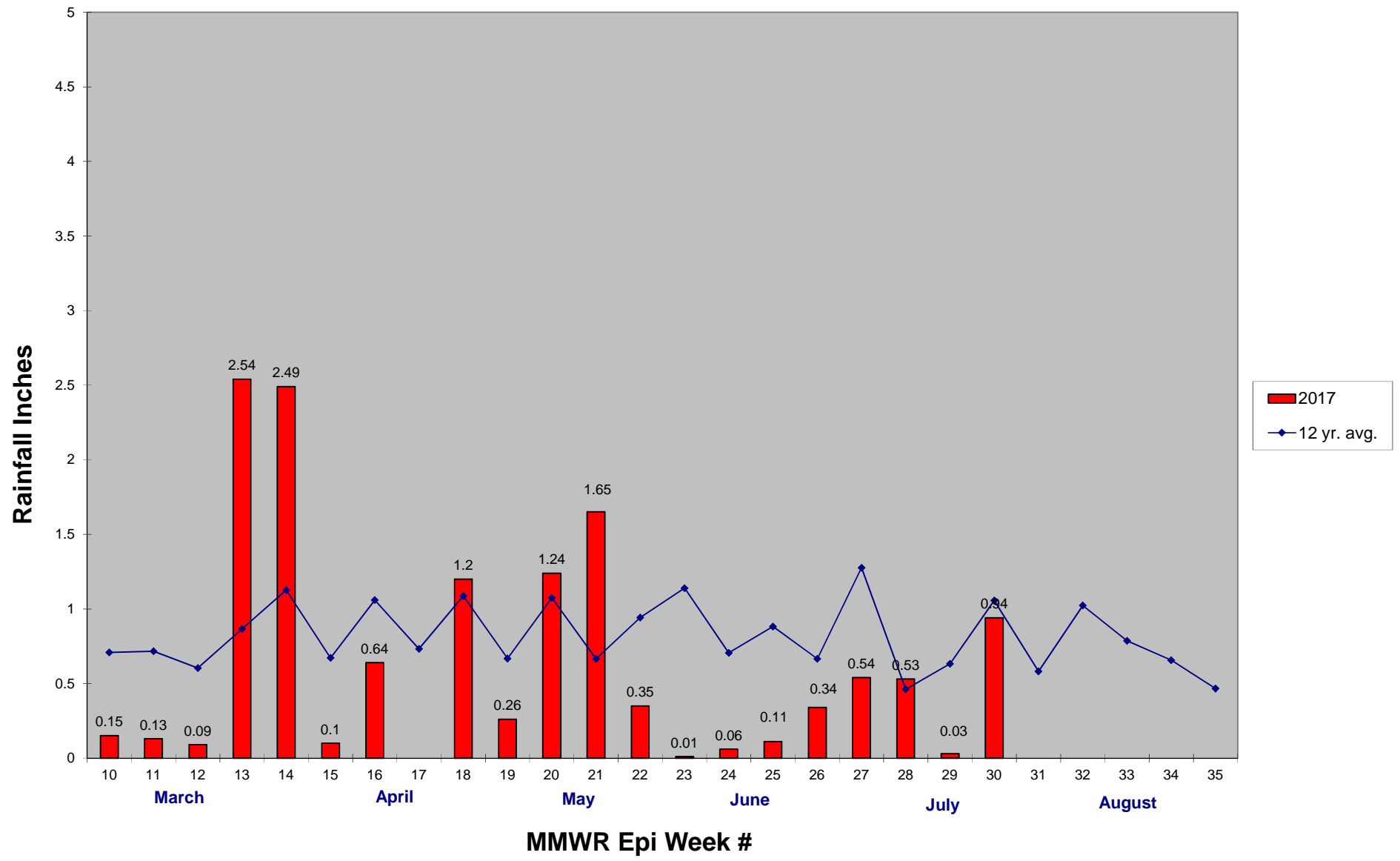
We have received 188% more service requests than the 14 year average (13,874 in 2017 v. 7,388 14 yr. avg.), and 3.3% more than this time in 2016 (13,874 in 2017 v. 13,424 in 2016). Service requests decreased 18.3% from Epi week 30 v week 29. 555 service requests were received and 1,048 requests were performed in Epi week 30 with favorable weather conditions most of the week.

2017 Mass. Rainfall Data vs. 37 Year Average*



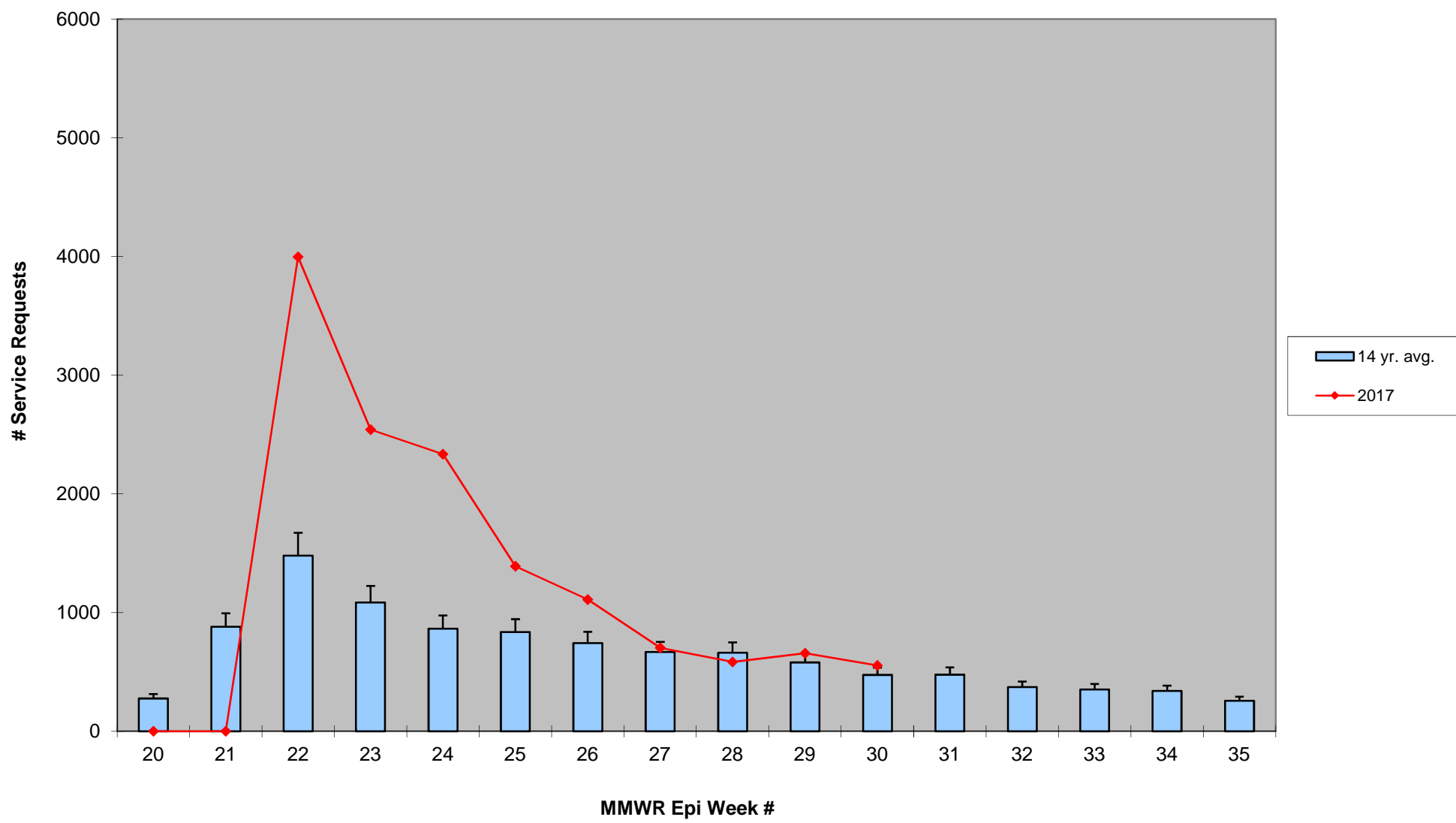
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

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

