

# CMMCP WEEKLY SURVEILLANCE REPORT



**EPI week #29**  
**Jul. 16-22, 2017**

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**Central Mass. Mosquito Control Project**  
**Weekly Report- 7/16/17-7/22/17**  
**EPI Week #29**

**Cumulative Surveillance Summary**

<b>Target Species</b>	<b><i>Ae. vex</i></b>	<b><i>Cq. per</i></b>	<b><i>Cs. mel</i></b>	<b><i>Oc. can</i></b>	<b><i>Culex</i></b>	<b>All Species</b>
<b>No. Pools</b>	30	136	24	145	402	1492
<b>Total Specimens</b>	98	4890	64	2855	5009	16284
<b>No. Pools WNV +</b>	0	0	0	0	0	0
<b>No. Pools EEE +</b>	0	0	0	0	0	0

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 76.66°F with a recorded high temperature of 91.80°F and a recorded low temperature of only 61.20°F. For this week there was also a total of 0.03 inches of rain observed. Compared to the previous week, it was approximately 6.97°F warmer on average, and rained about 0.50 inches fewer. There has been 1.10 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>	-100.0%	+485.7%	N/A
<i>Coquillettidia perturbans</i>	-71.43%	-86.54%	Chelmsford, Hudson, Boxborough
<i>Culiseta melanura</i>	-58.33%	-92.25%	Wilmington, Lunenburg, Millbury
<i>Ochlerotatus canadensis</i>	-50.00%	-44.16%	Ashland
<i>Culex</i> Species	+33.22%	+5.08%	Ashland, Stow, Southborough
All Species	+56.54%	-70.78%	Stow, Ashland

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

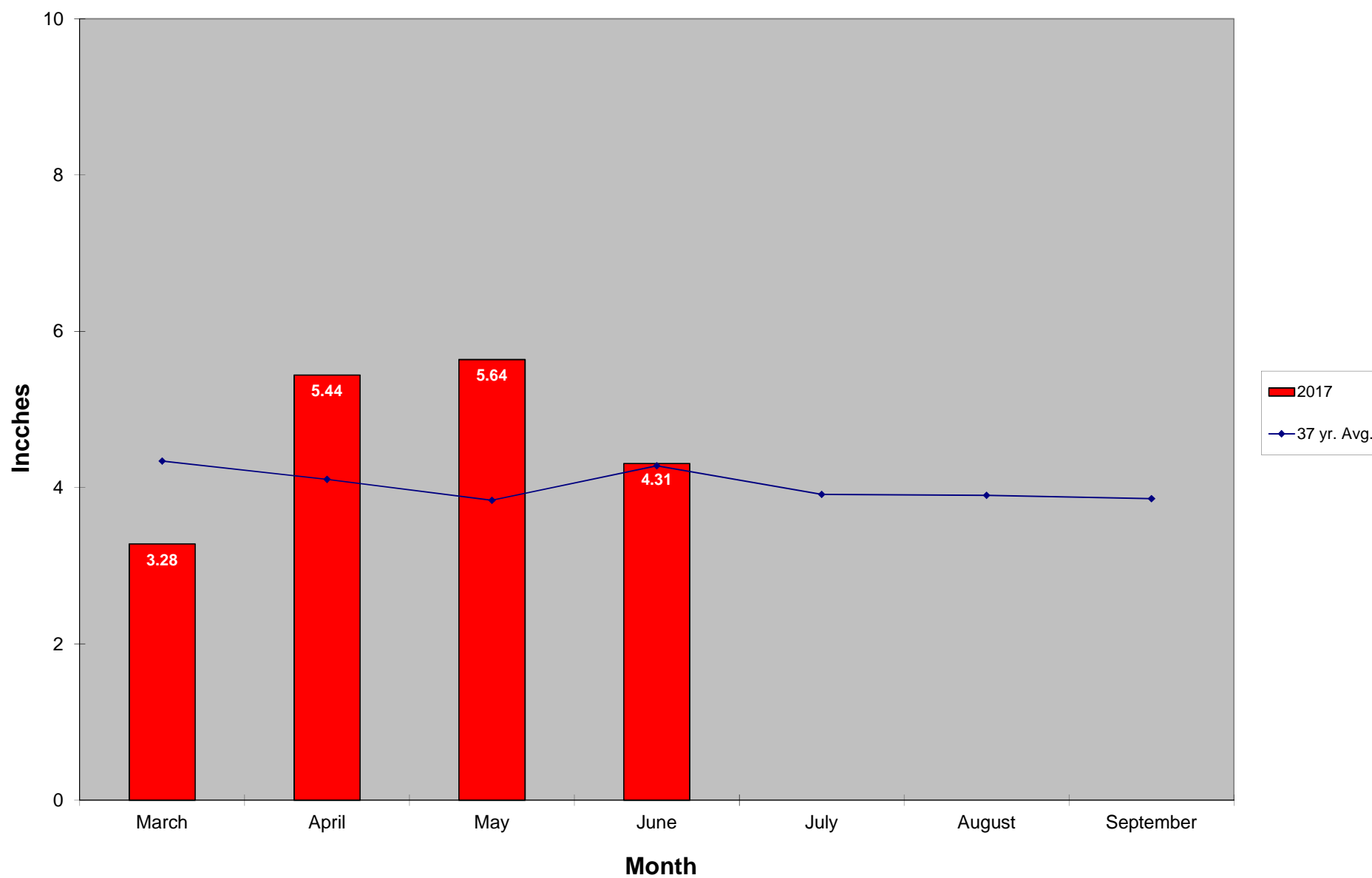
**Epi week #29 narrative:**

The temperatures for EPI week 29 averaged approximately 6.97 degrees warmer than the previous week, with 0.03 inches of precipitation observed. Overall collection numbers increased by 56.54% from EPI week 28, although the only target mosquito increasing from the prior collection period was *Culex*. To this point in the season, all target species have been collected in lower numbers compared to 2016 aside from *Aedes vexans* and *Culex*. This week *Culex* was the most abundant mosquito in the CMMCP service area. It is anticipated that *Cq. perturbans* will become the most abundant mosquito for EPI week 30. Ovitraps collected by CMMCP this week produced 259 eggs for *Aedes albopictus* (ATM) surveillance – no ATM have been identified in the CMMCP service area in 2017.

We have received 193% more service requests than the 14 year average (13,319 in 2017 v. 6,913 14 yr. avg.), and 3.7% more than this time in 2016 (13,319 in 2017 v. 12,838 in

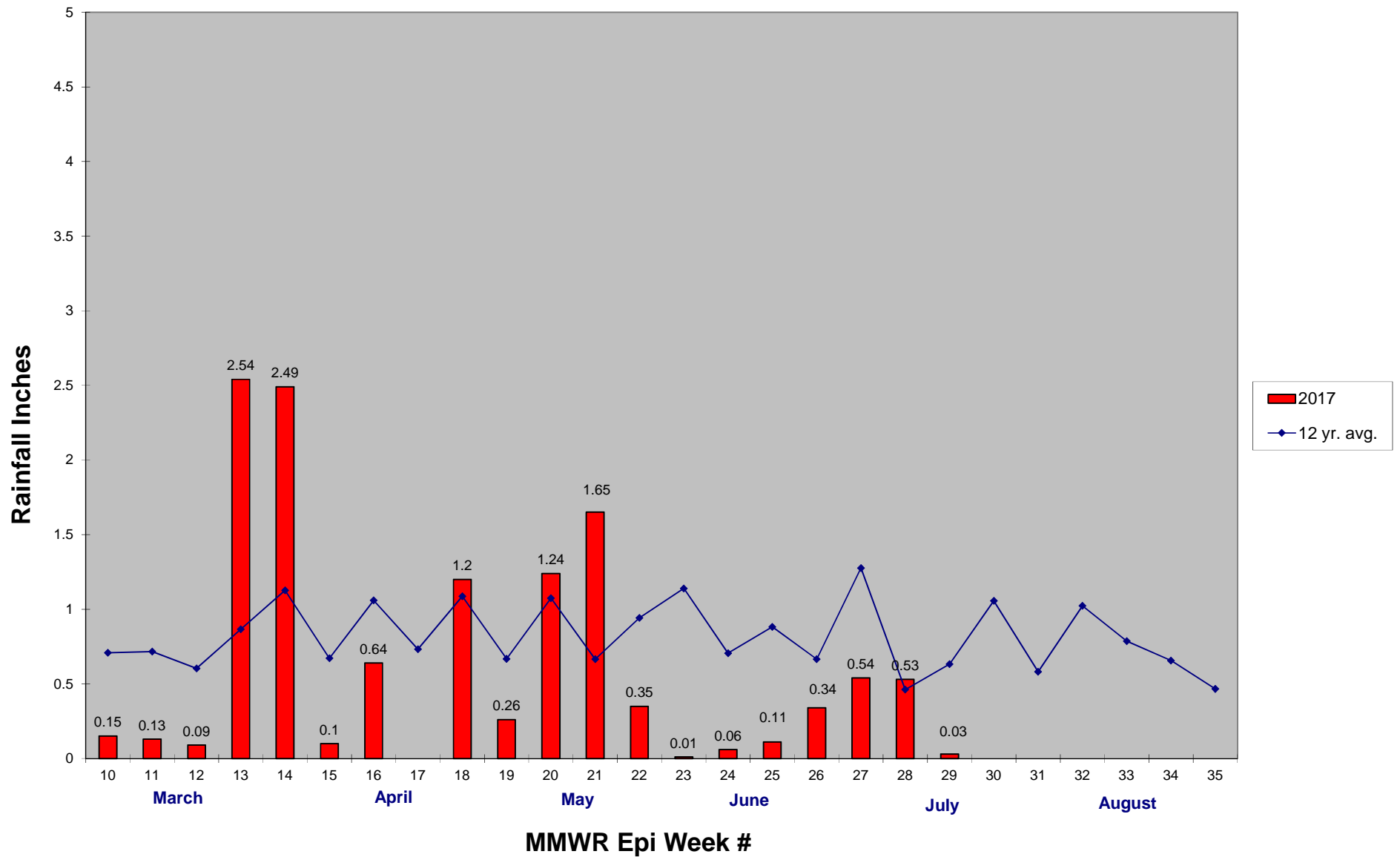
2016). Service requests increased 12.3% from Epi week 29 v week 28. 657 service requests were received and 1,508 requests were performed in Epi week 29 with favorable weather conditions all week.

### 2017 Mass. Rainfall Data vs. 37 Year Average\*



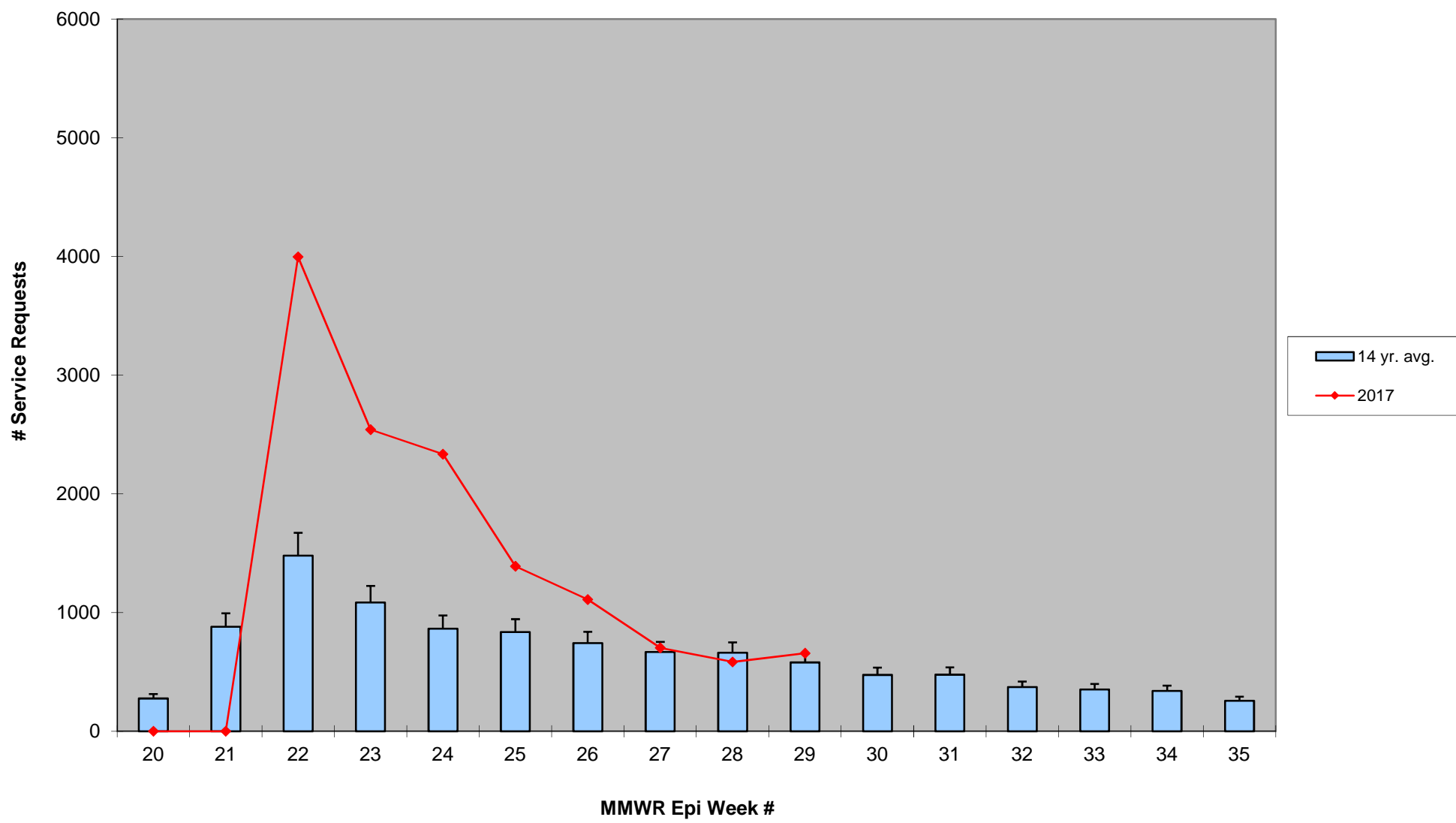
\*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

## 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

