

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #31
July 28 – Aug. 3, 2019

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Central Mass. Mosquito Control Project
Weekly Report- 7/28/19-8/3/19
EPI Week #31

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	88	623	191	242	629	3102
Total Specimens	405	142809	1264	4345	10059	164158
No. Pools WNV +	0	0	0	0	1 [†]	1 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/26/19

Weather Summary (Northborough, MA): The weather for this particular week averaged 76.89°F with a recorded high temperature of 93.30°F and a recorded low temperature of only 55.40°F. For this week there was also a total of 0.22 inches of rain observed. Compared to the previous week, it was approximately 3.70°F warmer on average, and rained about 1.46 inches less. There has been 5.20 inches of rain accumulated in July, after 3.04 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>	-21.05%	+77.29%	Holliston, Westborough
<i>Coquillettidia perturbans</i>	+176.9%	+303.2%	Southborough, Holliston
<i>Culiseta melanura</i>	+175.0%	+618.8%	Tewksbury
<i>Ochlerotatus canadensis</i>	+77.78%	+137.9%	Acton, Gardner
<i>Culex</i> Species	+33.65%	-62.42%	Hopedale
All Species	+153.8%	+138.0%	Southborough, Holliston

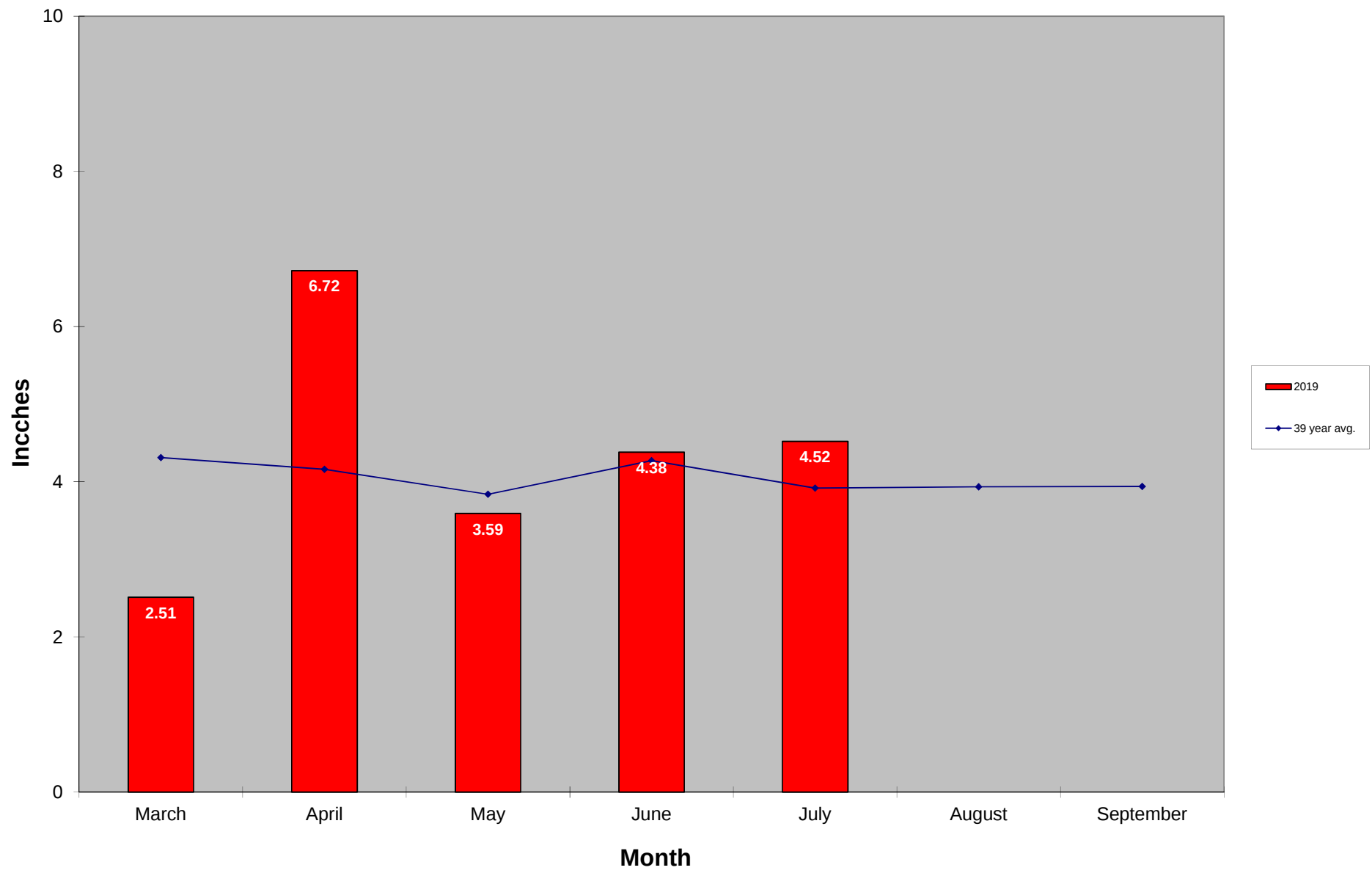
The predominant mosquito for the week was *Coquillettidia perturbans*,
followed by *Culex*.

General narrative: The temperatures for EPI week 31 averaged approximately 3.70°F warmer than the previous week, with only 0.22 inches of precipitation observed. This week of mosquito surveillance saw all target mosquito species experiencing increases except for *Aedes vexans*. *Coquillettidia perturbans* was once again the most abundant mosquito species for the week, followed by *Culex*. All target species have been collected in higher numbers this year compared to last, except for *Culex*. The first mosquito pool from the CMMCP service area that tested positive for mosquito-borne disease was found last week. One pool of *Culex* from Worcester, tested positive for West Nile virus. Thirty-five egg papers, containing 2373 eggs, were collected for *Aedes albopictus* surveillance during EPI week 31.

***Aedes albopictus* Surveillance Data**

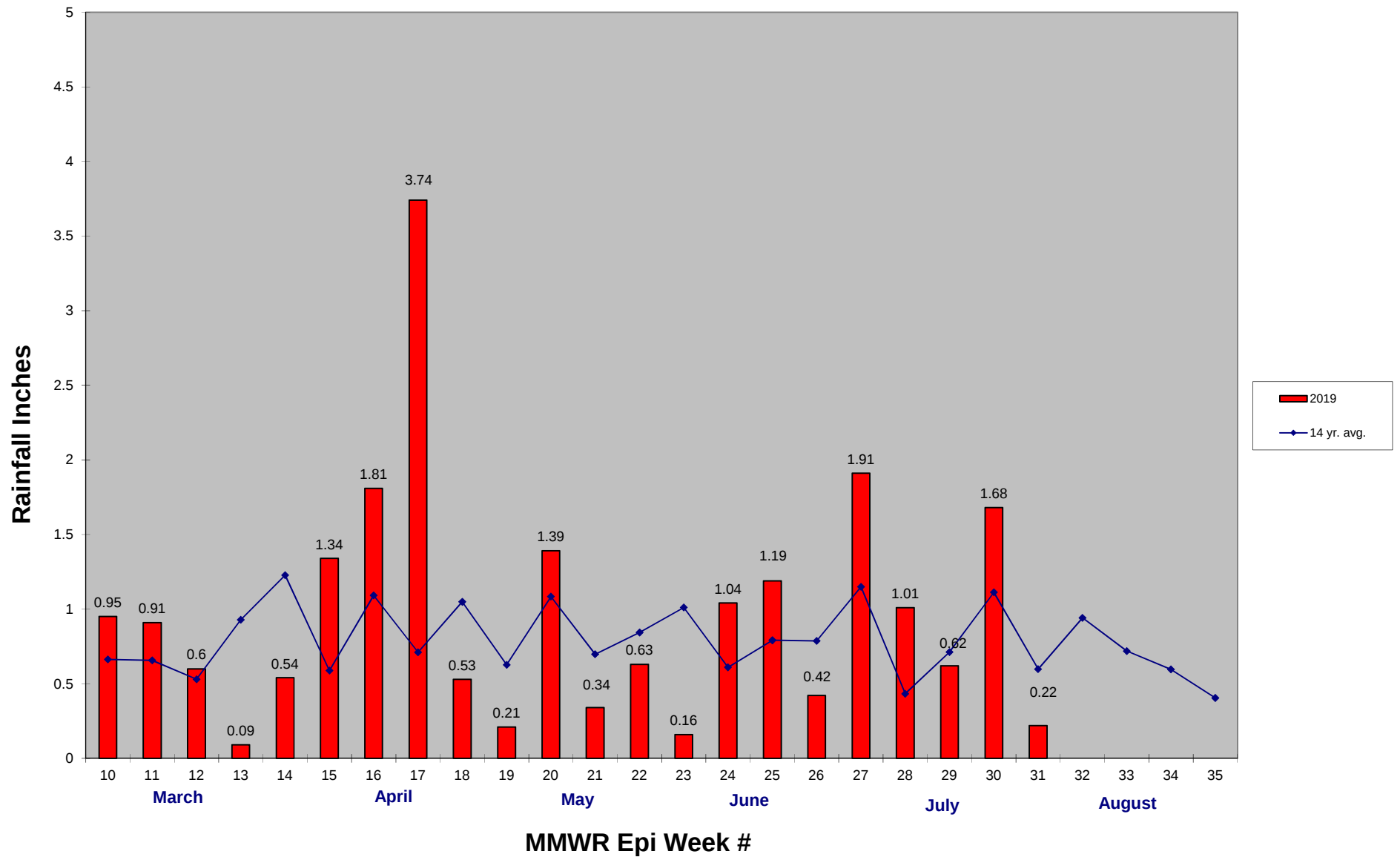
	# Ovitrap	# Eggs
EPI Week #22	31	4
EPI Week #23	21	221
EPI Week #24	33	530
EPI Week #25	37	1294
EPI Week #26	37	1100
EPI Week #27	-	-
EPI Week #28	35	3527
EPI Week #29	35	1481
EPI Week #30	35	1946
EPI Week #31	35	2373

2019 Mass. Rainfall Data vs. 39 Year Average*



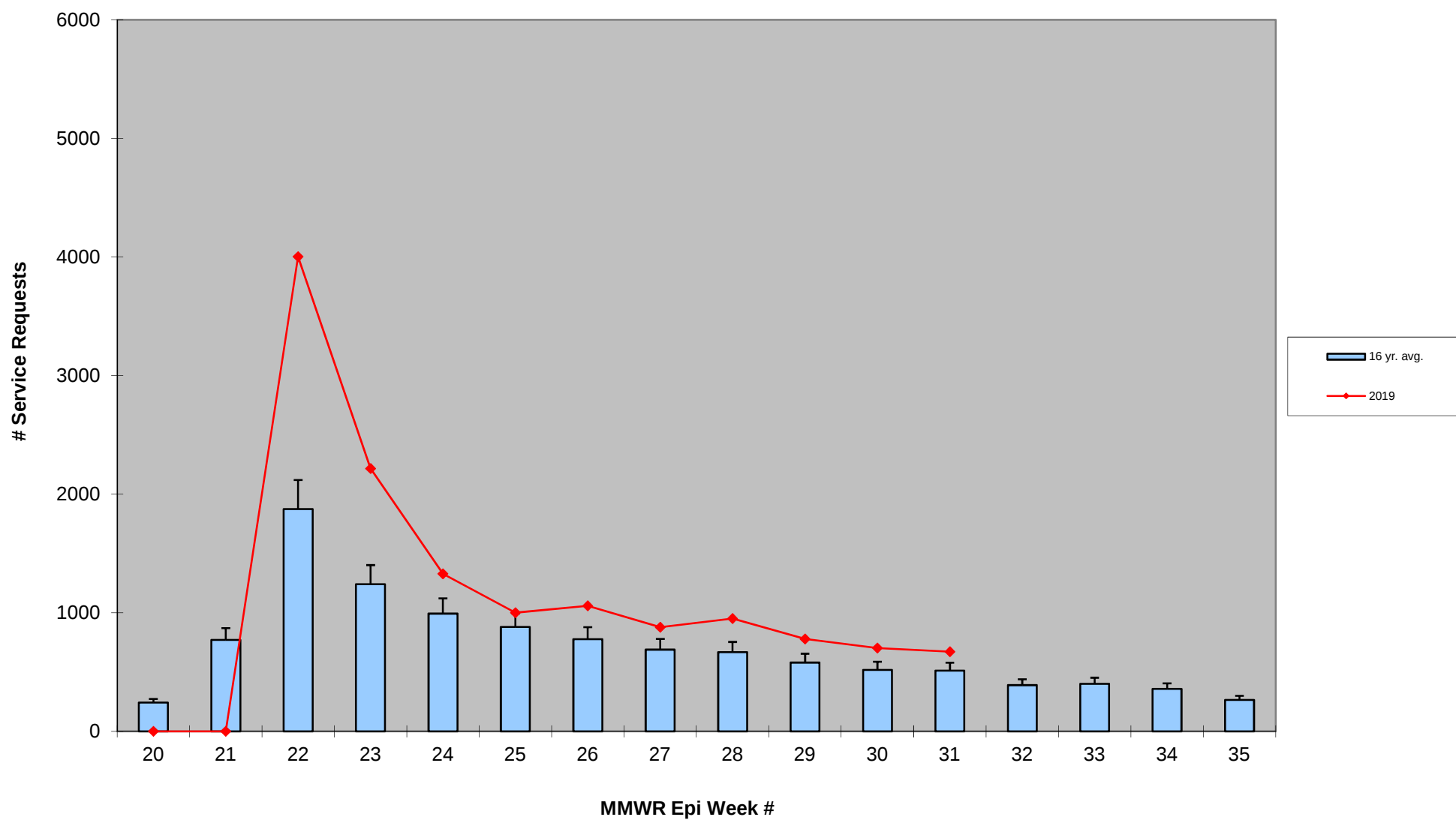
*source: <http://www.nrcc.cornell.edu/regional/tables/tables.html>

2019 CMMCP Weekly Rainfall vs. 14 Year Average*



*source: CMMCP weather station Northborough, MA

ULV Service Request History Comparison 2003-2019



2019 Rainfall vs. Requests

