CMMCP WEEKLY SURVEILLANCE REPORT

EPI week #31
Jul. 30 – Aug. 5, 2017

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Central Mass. Mosquito Control Project
Weekly Report- 7/30/17-8/5/17
EPI Week #31

Cumulative Surveillance Summary

Target Species	*Ae. vex*	*Cq. per*	*Cs. mel*	*Oc. can*	*Culex*	All Species
No. Pools	41	250	38	164	579	2099
Total Specimens	133	11064	96	2992	10960	30278
No. Pools WNV +	0	0	0	0	2†	2†
No. Pools EEE +	0	0	0	0	0	0

†Pool of WNV+ *Culex* species collected in Milford on 7/27/17
†Pool of WNV+ *Culex* species collected in Ashland on 7/27/17

CMMCP Mosquito Summary*-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
Aedes vexans	+150.0%	+116.7%	Westford, Littleton, Shrewsbury
Coquillettidia perturbans	+39.95%	-75.65%	Chelmsford, Tewksbury, Marlborough
Culiseta melanura	-11.76%	-86.96%	Acton, Millville, Wilmington
Ochlerotatus canadensis	+134.2%	-43.07%	Westford, Littleton
Culex Species	+36.63%	+64.60%	Westford, Chelmsford
All Species	+32.29%	-54.16%	Westford, Tewksbury, Chelmsford

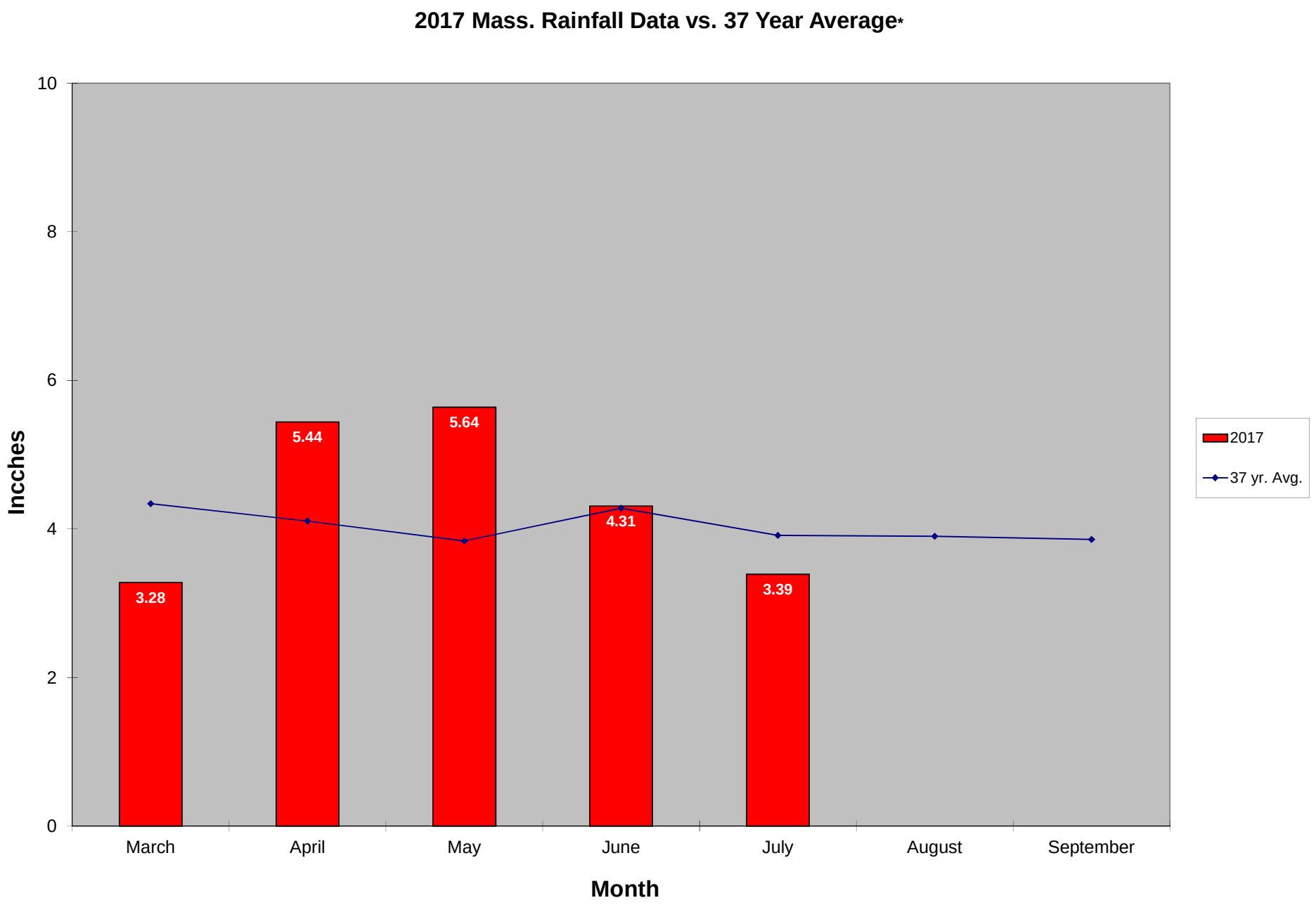
The predominant mosquito for the week was *Coquillettidia perturbans*, followed by *Culex* species.

Epi week 31 narrative:

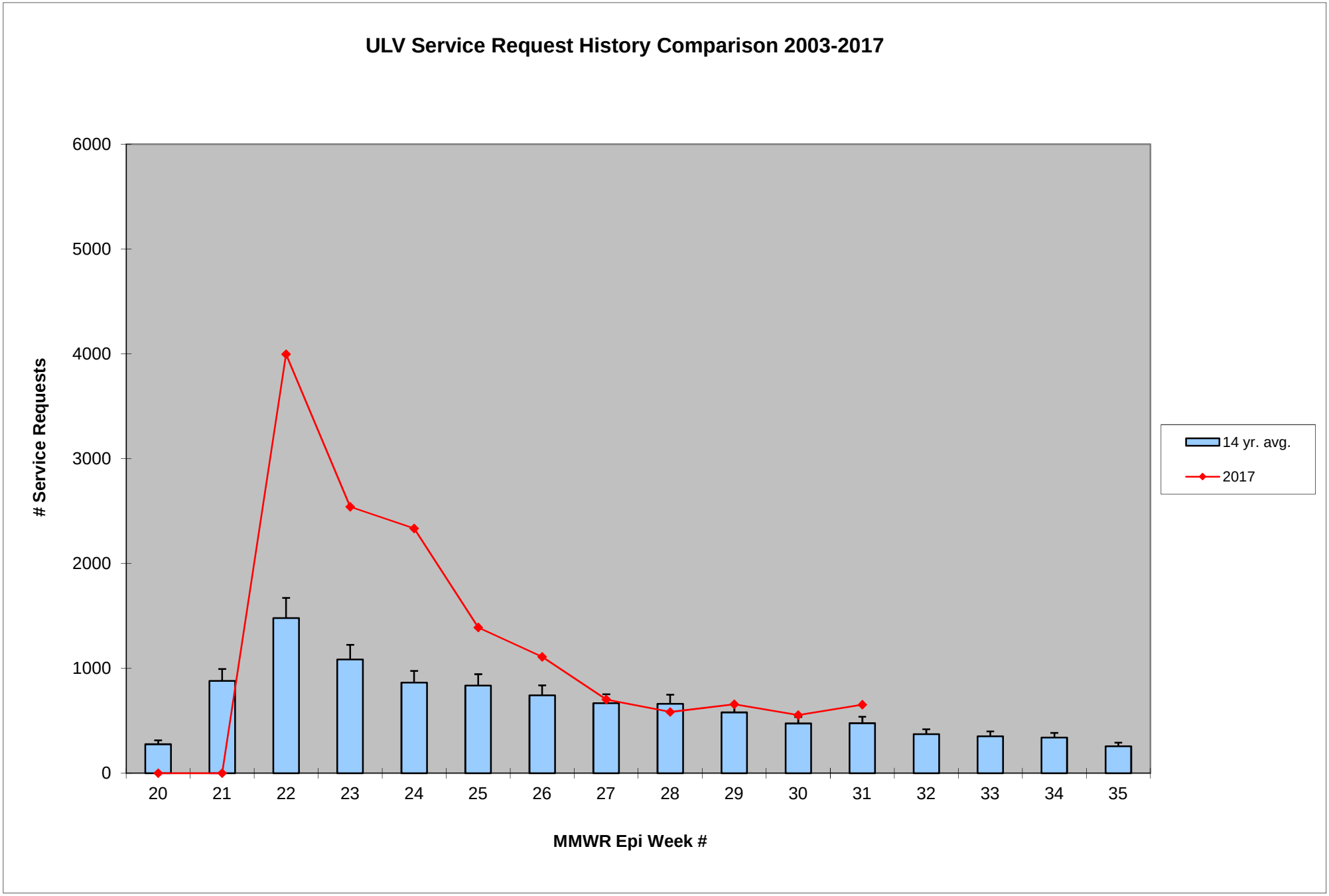
Overall collection numbers increased by 32.29% from EPI week 30. The only target mosquito species not to increase from the prior collection period were *Culiseta melanura*. To this point in the season, all target species have been collected in lower numbers compared to 2016 aside from *Aedes vexans* and *Culex*. This week *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 32. Surveillance collections from the previous week resulted in the first two CMMCP mosquito pools positive for WNV, one from Ashland, the other from Milford. Both of these pools were comprised solely of *Culex* mosquitoes. Ovitraps collected by CMMCP this week produced 627 eggs for *Aedes albopictus* surveillance with no confirmations to date of the presence of this species.

We have received 185% more service requests than the 14 year average (14,528 in 2017 v. 7,864 14 yr. avg.), and 4.7% more than this time in 2016 (14,528 in 2017 v. 13,870 in 2016). Service requests increased 17.8% from Epi week 30 likely due to the news of WNV confirmations in Ashland, Milford and Worcester. 654 service requests were received and 830 requests were performed in Epi week 31 with favorable weather conditions most of

the week. Additional surveillance traps have been set up in Auburn, Millbury and Shrewsbury after confirmation of WNV in Worcester. Vector spraying was done in Ashland and Milford on August 3 after confirmation of WNV in *Culex* and coordination with local health officials.



*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