

CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #21
May 24-30, 2015

Frank Cornine, *Field Biologist*
Curtis Best, *Staff Entomologist*
Todd Duval, *Field Biologist*
Tim McGlinchy, *Director of Operations*
Tim Deschamps, *Executive Director*

Central Mass. Mosquito Control Project
Weekly Report- 5/24/15-5/30/15
EPI Week #21

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	5	4	7	22	13	101
Total Specimens	40	5	155	902	49	3512
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 71.1°F with a recorded high temperature of 86.1°F and a recorded low temperature of only 45.6°F. For this week there was also a total of 0.00 inches of rain observed. Compared to the previous week, it was approximately 11.57°F warmer on average, and rained about 0.2 inches less. There has been only 0.24 inches of rain accumulated in May.

**CMMCP Mosquito Summary-
Target Species**

Predominant Trap Site(s)

<i>Aedes vexans</i>	Sturbridge, Billerica, Millville
<i>Coquillettidia perturbans</i>	Holliston, Webster, Tewksbury
<i>Culiseta melanura</i>	Billerica, Tewksbury, Holliston
<i>Ochlerotatus canadensis</i>	Millville, Blackstone, Billerica
<i>Culex</i> Species	Sturbridge, Natick, Boxborough
All Species	Millville, Billerica, Sturbridge

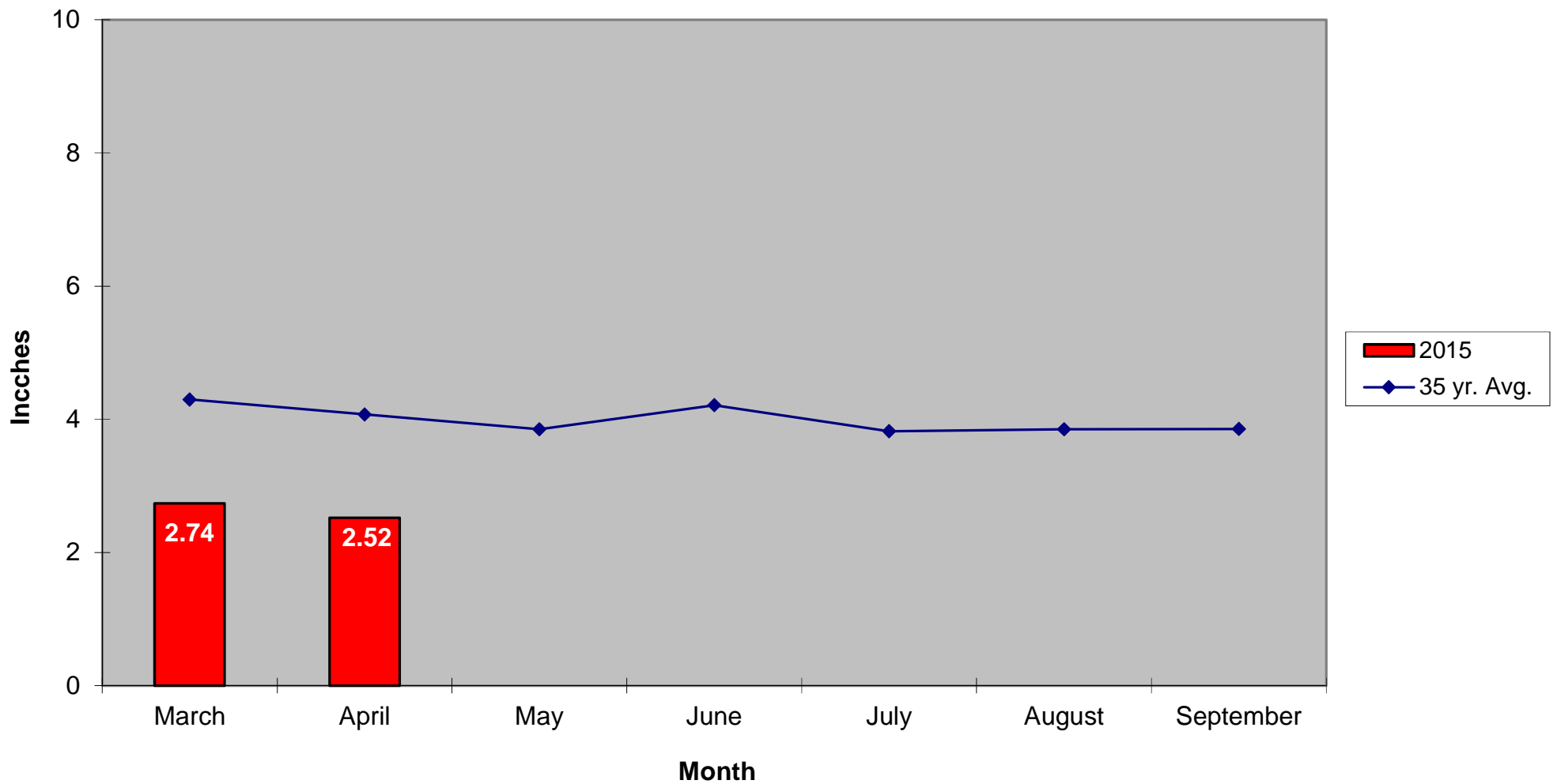
The predominant mosquito for the week was *Ochlerotatus abserratus* followed by *Ochlerotatus canadensis*.

General narrative:

The temperatures for EPI week 21 averaged over 10 degrees higher than the previous week, which allowed for increased mosquito activity in the evening hours. Continued emergence of early season mosquito species was reflected in the surveillance trap collections, with large numbers of *Ochlerotatus abserratus* and *Oc. canadensis*. These two species accounted for over three quarters of all mosquitoes collected. There was no precipitation this week, continuing the dry conditions of May. There were a few individual *Coquillettidia perturbans* specimens collected, although this species is not predicted to have a significant emergence for a couple weeks. Currently *Oc. abserratus* is the predominant species in the CMMCP service area, with *Oc. canadensis* second. Continued increases in temperature coupled with additional emergence will cause surveillance collection numbers to rise in the upcoming weeks. Significant rains are expected in EPI week 22.

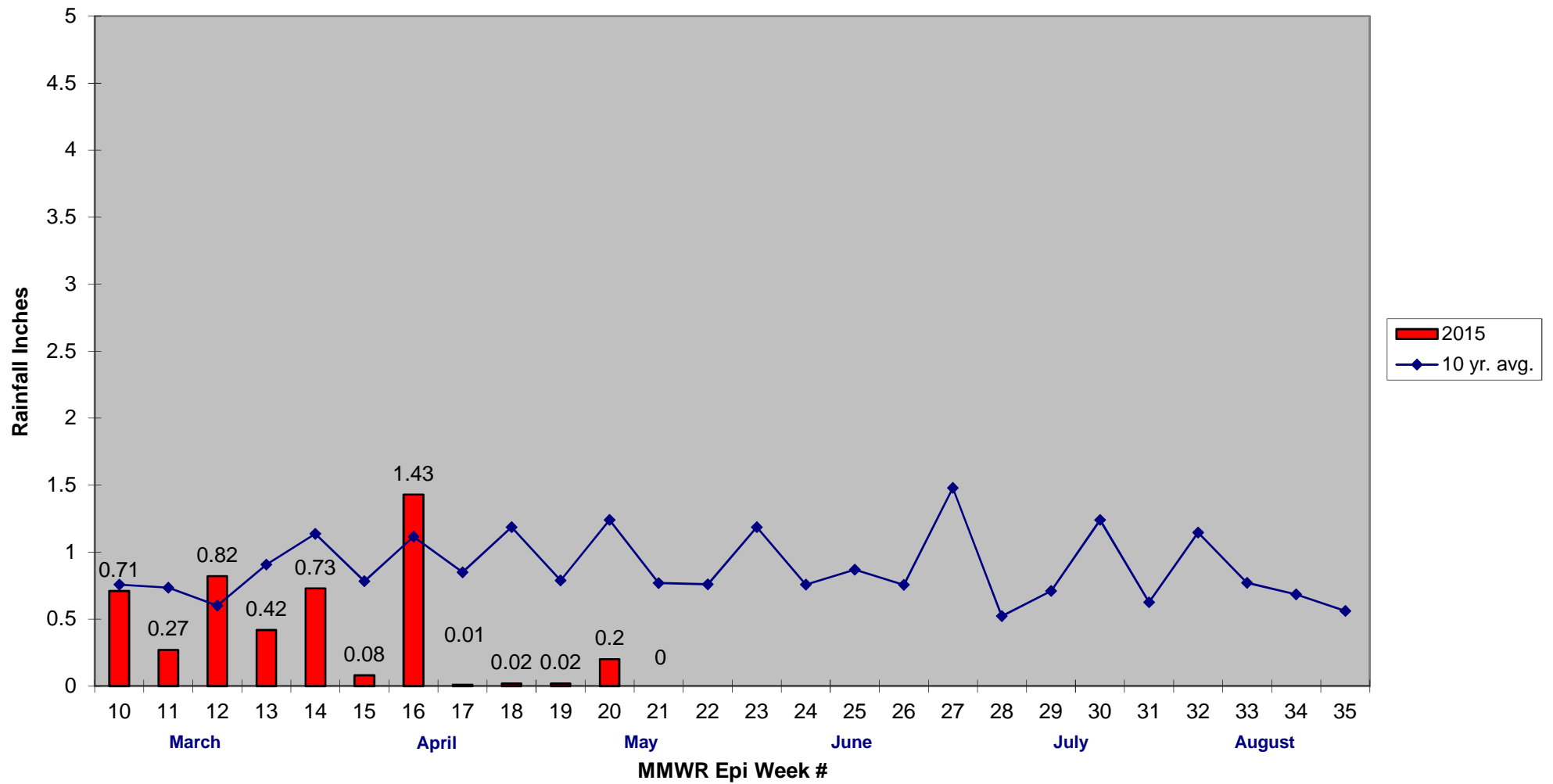
Service calls were accepted starting May 26. A record number of residents requested service during Epi week 21; 4,578. This represents nearly 30% of the total number of service requests received in 2014 (15,737). 84% (3,854) of the total number were collected through our online system. 17,158 catch basins were treated in May as part of our preemptive WNV prevention program.

2015 Mass. Rainfall Data vs. 35 Year Average*



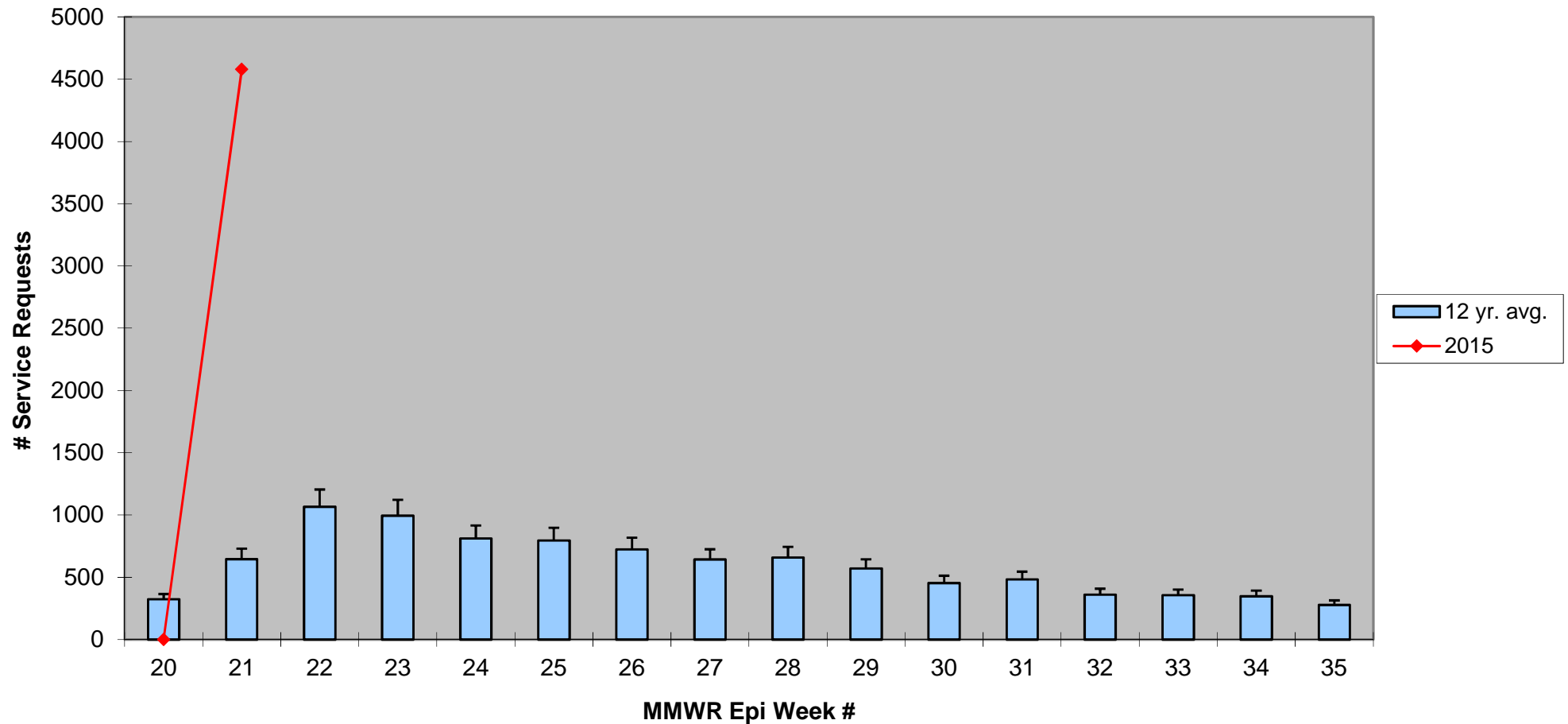
*Source: Northeast Regional Climate Center: http://www.nrcc.cornell.edu/page_summaries.html

2014 CMMCP Weekly Rainfall vs. 9 Year Average*



*Source: CMMCP Weather Station - Northborough, MA

ULV Service Request History Comparison 2003-2014



Error bars show approx. number of requests if we had 40 cities and towns over the 10 year average

2015 Rainfall vs. Requests

