CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #22 May 31 – June 6, 2015

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Central Mass. Mosquito Control Project Weekly Report- 5/31/15-6/6/15 EPI Week #22

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	9	4	17	39	31	260
Total Specimens	44	5	300	1067	106	5236
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 56.8°F with a recorded high temperature of 78.4°F and a recorded low temperature of only 45.6°F. For this week there was also a total of 3.31 inches of rain observed. Compared to the previous week, it was approximately 14.26°F cooler on average, and rained about 3.31 inches more. There has been 1.58 inches of rain accumulated in June, after 1.97 inches for the month of May.

CMMCP Mosquito Summary*-

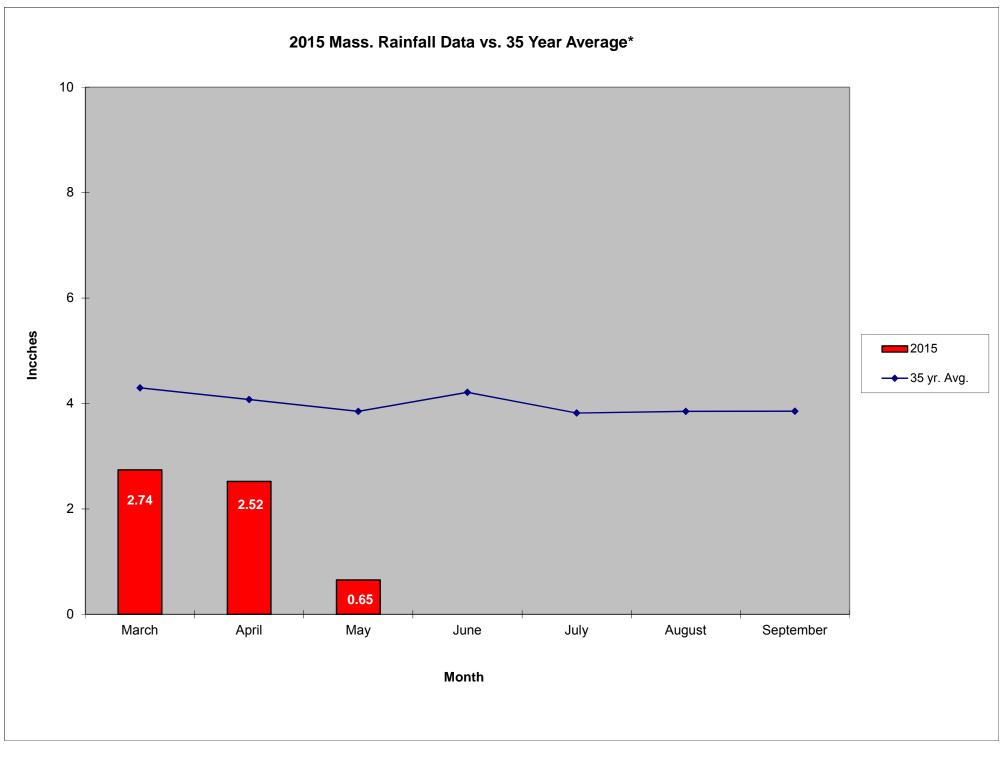
rarget Species	Δ From	Δ From	Predominant Trap Site(s)		
	Last Week	Last Year			
Aedes vexans	+00.00%	+00.00%	Westborough, Shrewsbury, Westford		
Coquillettidia perturbans	-100.00%	+00.00%	N/A		
Culiseta melanura	+54.84%	+269.2%	Tewksbury, Wilmington		
Ochlerotatus canadensis	-97.37%	-90.00%	Stow, Hopedale, Millbury		
Culex Species	+1800.0%	+260.0%	Webster, Tewksbury, Millbury		
All Species	-33.44%	+190.3%	Westford, Stow, Millbury		

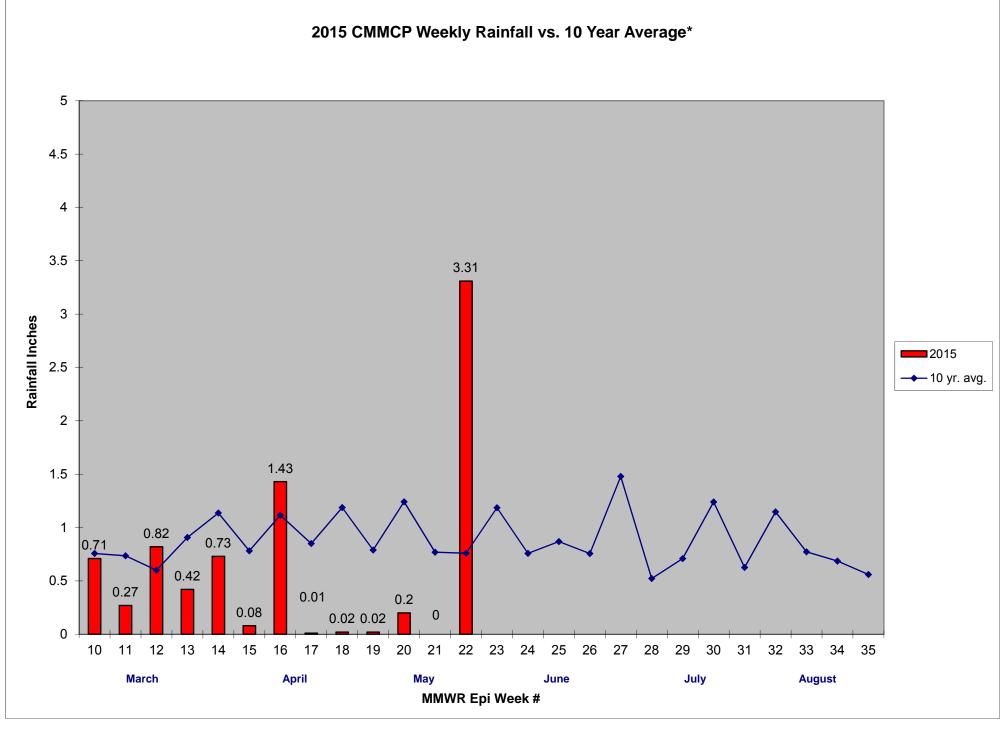
The predominant mosquito for the week was *Ochlerotatus abserratus* followed by *Ochlerotatus excrucians*.

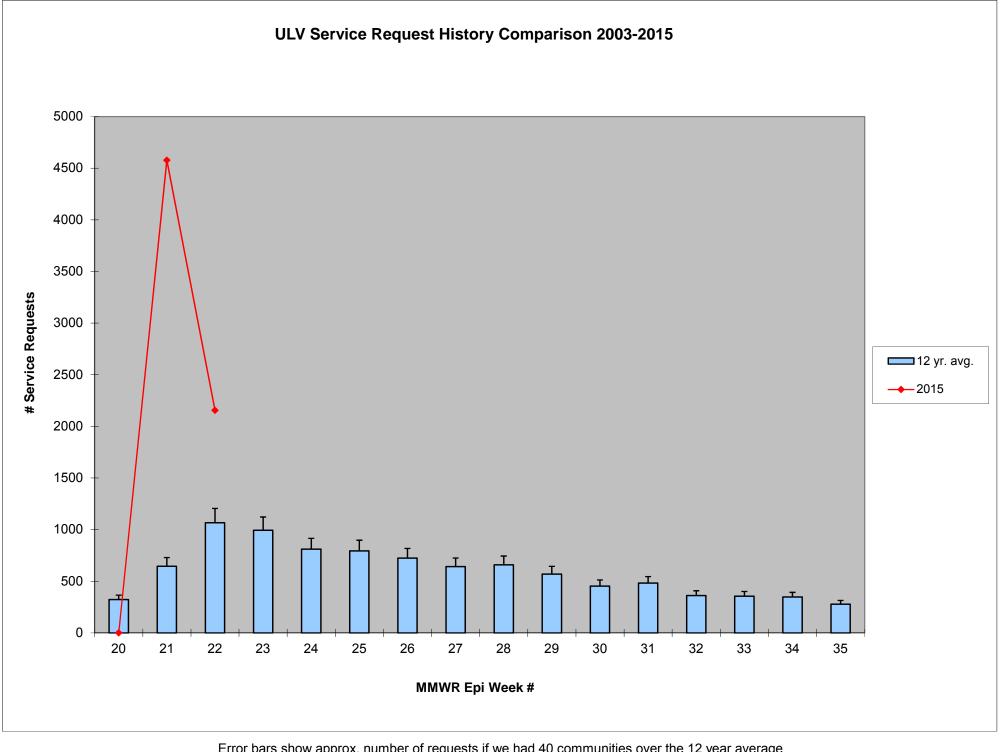
General narrative: The temperatures for EPI week 22 averaged 14 degrees cooler than the previous week, and 3.31 inches of precipitation was observed. Overall collection numbers were lower than EPI week 21, with *Ochlerotatus abserratus* remaining the most abundant species, followed now by *Oc. excrucians*. These two species accounted for over half of all mosquitoes collected and are likely responsible for the volume of adulticide requests. *Culiseta melanura* and *Culex* spp. experienced increases which is important to note as they are important vectors of Eastern Equine Encephalitis and West Nile virus respectively. More seasonable temperatures should increase collections numbers. The heavy rains observed this week may cause an additional emergence of flood water species over the next couple of weeks.

^{*}Low early season numbers may contribute to these comparisons being not as significant as they appear

The catch basin program for *Culex* control continued, with an additional 9,083 basins treated; this brings the total to 26,241 basins treated as part of our early season WNV control program. Rain events in early Epi week 22 delayed responses to service requests for spraying. 2,136 service requests were received in Epi week 22, a 212% reduction from Epi week 21 (4,578 v 2,156). This is a 201% increase from the 12 year average of 1,066, and a 114% increase from the same Epi week in 2014 (1,887). Despite the rain and cool temperatures we were able to service 1,343 requests with some creative scheduling and 8 crews working overtime Friday June 5. No tires were collected in our source reduction program, this program is on a brief hiatus while we concentrate in our areas of service, but we continue to database any information received from residents.







2015 Rainfall vs. Requests

