

## Central Mass. Mosquito Control Project Weekly Report- 8/2/15-8/8/15 EPI Week #31

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	120	408	107	204	560	2421
Total Specimens	836	29803	980	4680	10952	57478
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

## **Cumulative Surveillance Summary**

**Weather Summary (Northborough, MA):** The weather for EPI Week 31 averaged 71.2°F with a recorded high temperature of 88.5°F and a recorded low temperature of only 53.7°F. There was only 0.01 inches of precipitation observed this week. Compared to the previous week, it was approximately 3.6°F cooler on average, and rained about 0.07 inches less. There has been 0.01 inches of rain accumulated in August, after 0.17 inches for the month of July.

## **CMMCP Mosquito Summary-**

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	-100.0%	-100.0%	N/A
Coquillettidia perturbans	-60.86%	-64.97%	Berlin, Lowell, Devens
Culiseta melanura	+40.74%	+11.76%	Wilmington, Tewksbury
Ochlerotatus canadensis	-100.0%	-100.0%	Boylston
Culex Species	-19.12%	-21.43%	Boxborough, Hopkinton
All Species	-54 15%	-58 50%	Sherborn Devens

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

**General narrative**: The temperatures for EPI Week 31 averaged approximately 4°F cooler than the previous week, with only 0.01 inches of precipitation. Overall collection numbers decreased by 54% from EPI Week 30 at the historical surveillance trap sites. This decrease was largely due to a drop in *Coquillettidia perturbans* specimens. The only target species to experience an increase from the previous week was *Culiseta melanura*. Compared to the 2014 season, the long-term surveillance locations showed an overall decrease of almost 59%. As with the weekly comparison, this was primarily due to a significant reduction in *Cq. perturbans*. Despite this reduction, *Cq. perturbans* remained the most abundant species in the CMMCP service area with *Culex* spp. second.

For the year we have received 185% more service requests than average; 14,493 requests to date compared to the 12 year average of 7,838. Requests were 16.8% more than the 2014 totals for the same time frame, 12,399 in 2014 against 14,493 in 2015.

Service requests decreased 39.5% from EPI week 30 to Epi week 31 for 2015 (618 v. 443). 482 service calls were completed this week with minimal weather events impacting operations. To date 14,299 service calls have been completed despite weather conditions earlier in the season that cancelled or postponed operations. Catch basin treatments are underway in all member communities as a preemptive control for *Culex* and West Nile Virus.







Error bars show approx. number of requests if we had 40 communities over the 12 year average

## 2015 Rainfall vs. Requests

