

Central Mass. Mosquito Control Project Weekly Report- 7/12/15-7/18/15 EPI Week #28

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	86	246	84	180	375	1687
Total Specimens	713	20959	808	4533	7633	43338
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 28 averaged 71.9°F with a recorded high temperature of 89.2°F and a recorded low temperature of only 52.1°F. There was zero precipitation observed this week. Compared to the previous week, it was approximately 0.74°F warmer on average, and rained about 0.02 inches less. There has been 0.05 inches of rain accumulated in July, after 5.17 inches for the month of June.

CMMCP Mosquito Summary-

Target Species	Δ From	Δ From	Predominant Trap Site(s)	
	Last Week	Last Year		
Aedes vexans	+2300%	+2400%	Auburn, Tewksbury	
Coquillettidia perturbans	+174.9%	+9.890%	Wilmington, Tewksbury	
Culiseta melanura	-58.33%	+500.0%	Millbury, Wilmington	
Ochlerotatus canadensis	-36.36%	+6.670%	Auburn, Billerica	
Culex Species	+1.85%	-49.07%	Holliston, Auburn	
All Species	+143.7%	+11.34%	Wilmington, Tewksbury, Auburn	

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

General narrative

The temperatures for EPI Week 28 averaged approximately 1 degree warmer than the previous week, with only no observed precipitation. At historical surveillance trap sites, the overall collection numbers increased by 144% over EPI week 27. This large increase was primarily due to a significant rise in the *Coquillettidia perturbans* population. EPI Week 28 also experienced elevated levels of *Aedes vexans*, which may be a result of the significant June rain events. This floodwater species is still considered low in the CMMCP service area, despite the relative spike in population. Compared to the 2014 season, the long-term surveillance locations showed an overall increase of approximately 11%. *Cq. perturbans* was once again the most abundant species in the CMMCP service area, with *Culex* spp. the second most abundant mosquito. *Cq. perturbans* will likely remain the predominant species for EPI week 29.

For the year we have received 203% more service requests than average; 12,871 requests to date compared to the 12 year average of 6,332. Requests were 22% more than the 2014 totals for the same time frame, 10,511 in 2014 against 12,871 in 2015. Service requests decreased 23% from EPI week 27 to Epi week 28 for 2015 (930 v.755). 1,375 service calls were completed this week with only one weather event in Natick impacting operations. To date 11,993 service calls have been completed despite weather conditions earlier in the season that cancelled or postponed operations. Catch basin treatments have restarted as a preemptive control for *Culex* and West Nile Virus.







2015 Rainfall vs. Requests

