

Central Mass. Mosquito Control Project Weekly Report- 8/14/16-8/20/16 EPI Week #33

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	17	106	28	97	467	1339
Total Specimens	181	474	562	4815	10387	71672
No. Pools WNV +	0	2†	0	0	1†	3†
No. Pools EEE +	0	0	0	0	0	0

Cumulative Surveillance Summary

[†]Pool of WNV+ *Culex pipiens/restuans* complex collected in Auburn on 8/2/16 [†]Pool of WNV+ *Coquillettidia perturbans* collected in Auburn on 8/2/16 [†]Pool of WNV+ *Coquillettidia perturbans* collected in Hopkinton on 8/5/16

Weather Summary (Northborough, MA): The weather for this particular week averaged 75.64°F with a recorded high temperature of 93.10°F and a recorded low temperature of only 60.20°F. There was 0.44 inches of precipitation observed this week. Compared to the previous week, it was approximately 0.15°F cooler on average, and rained 0.31 inches less. There has been 1.83 inches of rain accumulated in August, after 1.62 inches for the month of July.

Target Species	Δ From Last Week	∆ From Last Year	Predominant Trap Site(s)
Aedes vexans	+75.00%	+40.00%	Millbury, Chelmsford, Shrewsbury
Coquillettidia perturbans	-67.33%	+169.2%	Webster, Millbury, Sturbridge
Culiseta melanura	+250.0%	-12.50%	Tewksbury
Ochlerotatus canadensis	-78.72%	+900.0%	Webster, Berlin, Leominster
Culex Species	+163.4%	+325.0%	Holliston, Milford
All Species	-47.72%	+254.2%	Holliston, Millbury, Webster

CMMCP Mosquito Summary*-

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

The temperature for EPI week 33 averaged approximately 0.15 degrees cooler than the previous week, with almost 0.44 inches of precipitation observed. At the CMMCP historical surveillance trap sites, the overall collection numbers continued to decrease (-47.72%) over EPI week 32. This was due primarily to another decrease in *Coquillettidia perturbans*. Of the target species, *Aedes vexans*, *Culiseta melanura*, and *Culex* increased in population, while *Cq. perturbans* and *Ochlerotatus canadensis* decreased this surveillance period. Despite the decrease from EPI week 32, the long-term surveillance locations once again showed a significant overall increase when compared to the 2015 season. The elevated levels of *Cq. perturbans* influenced this yearly change. *Culex* species are currently the most abundant target mosquito in the CMMCP service

area, with *Cq. perturbans* the second most abundant mosquito. Five egg papers were collected from CMMCP ovitraps this week. These produced 147 eggs which will help gauge the presence of Aedes albopictus in central Massachusetts.

	# Ovitraps	# Egg Papers	# Eggs
EPI Week #22	15	7	0
EPI Week #23	-	-	-
EPI Week #24	5	2	49
EPI Week #25	15	6	93
EPI Week #26	17	17	19
EPI Week #27	25	19	1180
EPI Week #28	25	25	1020
EPI Week #29	10	7	62
EPI Week #30	15	12	632
EPI Week #31	15	10	524
EPI Week #32	20	19	985
EPI Week #33	5	5	147
2016 Totals	167	129	4711

Enhanced Surveillance for Aedes albopictus - Ovitrap Collections

No virus confirmation were received for Epi week 33.

For the year we received 156% more service requests than average; 14,646 requests compared to the 13 year average of 9,368. Service requests decreased 5.3% from the previous week; 306 in Epi week 33 compared to 470 in Epi week 32.

Standard catch basin treatments continue in all member towns. With scattered reports of rain, some heavy, in our region, we have been pushing the message through social media and other outlets to "Dump and Drain" to minimize larval populations that use these habitats to develop.







