

Central Mass. Mosquito Control Project Weekly Report- 8/18/19-8/24/19 EPI Week #34

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	167	969	278	271	891	4408
Total Specimens	1060	162847	1864	4420	15260	193275
No. Pools WNV +	0	0	0	0	3†	3†
No. Pools EEE +	0	9†	0	0	0	9†

Cumulative Surveillance Summary

[†]Pool of WNV+ *Culex* species collected in Worcester on 7/26/19 [†]Pool of WNV+ *Culex* species collected in Stow on 7/31/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Southborough on 7/31/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Southborough on 7/31/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/2/19 [†]Pool of EEE+ Coguillettidia perturbans collected in Westborough on 8/2/19 [†]Pool of WNV+ Culex species collected in Worcester on 8/6/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Hopkinton on 8/6/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19 [†]Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.53°F with a recorded high temperature of 96.10°F and a recorded low temperature of 51.40°F. For this week there was also a total of 0.15 inches of rain observed. Compared to the previous week, it was approximately 1.84°F warmer on average, and rained 0.13 inches more. There has been 1.95 inches of rain accumulated in August, after 5.20 inches for the month of July.

Target Species Predominant Trap Site(s) Δ From Δ From Last Week Last Year +30.67% Aedes vexans +21.50% Southborough, Acton Coquillettidia perturbans +290.9% Southborough, Milford -6.190% Webster, Sturbridge Culiseta melanura -52.75% +588.2% -9.090% +135.9% Northbridge, Lancaster Ochlerotatus canadensis Culex Species +82.72% -50.19% Stow, Holliston All Species +3.120% +138.8% Southborough, Milford

CMMCP Mosquito Summary-

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

General narrative: The temperatures for EPI week 34 averaged approximately 1.84°F warmer than the previous week, with only 0.15 inches of precipitation observed. Aedes *vexans* and *Culex* were the only target mosquitoes that experienced an increases this surveillance week, while all others decreased. Despite this there was still a slight increase observed in the overall mosquito population. *Coquillettidia perturbans* was once again the most abundant mosquito species for the week, followed by *Culex*. All target species have been collected in higher numbers this year compared to last, except for *Culex*. There were no additional pools from the CMMCP service area that tested positive for mosquito-borne disease. Cool evening temperatures and the natural decline in *Coquillettidia perturbans* should result in an overall mosquito population reduction for EPI week 35. Surveillance for *Aedes albopictus* using ovitraps has been suspended to allow staff to concentrate on monitoring current mosquito-borne disease in the CMMCP service area.

Service requests are 81.4% greater than the 16 year average (9,880 vs. 17,923) and now 4.5% higher than 2018 numbers (17,142 vs. 17,923) despite being lower than 2018 numbers until this week. Service requests increased 68.5% from Epi week 33 to 34 (1,277 vs. 2,153). 1,296 service requests were closed out in EPI week 34; 15,423 have been closed to date from a total of 17,769 received (15.2% open). Work crews have been performing catch basins treatments in all member communities for *Culex* control. 6,603 catch basins were treated in Epi week 34, bringing the total for the year to 117,859 basins treated for *Culex* control.

	# Ovitraps	# Eggs
EPI Week #22	31	4
EPI Week #23	21	221
EPI Week #24	33	530
EPI Week #25	37	1294
EPI Week #26	37	1100
EPI Week #27	-	-
EPI Week #28	35	3527
EPI Week #29	35	1481
EPI Week #30	35	1946
EPI Week #31	35	2373
EPI Week #32	25	941
EPI Week #33	-	-
EPI Week #34	-	-

Aedes albopictus Surveillance Data







