

Central Mass. Mosquito Control Project Weekly Report- 9/1/19-9/7/19 EPI Week #36

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	219	1140	340	293	1096	5475
Total Specimens	1351	167288	2160	4474	16845	202159
No. Pools WNV +	0	0	0	0	9†	9†
No. Pools EEE +	2†	19 [†]	2†	0	3†	26†
[†] Pool of WNV+ Cule	ex species	collected in	Worcester	on 7/26/19)	
[†] Pool of WNV+ <i>Culex</i> species collected in Stow on 7/31/19						
[†] Pool of EEE+ Coqu	[†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 7/31/19					
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in S	Southborou	igh on 7/31	/19
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in V	Vestborou	gh on 8/2/1	9
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in V	Vestborou	gh on 8/2/1	9
[†] Pool of WNV+ Cule	ex species	collected in	Worcester	on 8/6/19		
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in I	Hopkinton a	on 8/6/19	
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in V	Vestborou	gh on 8/8/1	9
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in V	Vestborou	gh on 8/8/1	9
[†] Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19						9
[†] Pool of EEE+ <i>Coquillettidia perturbans</i> collected in Westborough on 8/8/19						
[†] Pool of WNV+ <i>Culex</i> species collected in Worcester on 8/20/19						
[†] Pool of WNV+ Cule	ex species	collected in	Worcester	on 8/20/19	Ð	
[†] Pool of WNV+ Cule	ex species	collected in	n Leominste	er on 8/20/1	9	
[†] Pool of EEE+ Coqu	uillettidia pe	erturbans co	ollected in S	Southborou	igh on 8/21	/19
[†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19						
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[†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19						
[†] Pool of EEE+ <i>Culex</i> species collected in Southborough on 8/21/19						
[†] Pool of EEE+ Aedes vexans collected in Southborough on 8/21/19						
[†] Pool of EEE+ Aedes vexans collected in Southborough on 8/21/19						
[†] Pool of EEE+ <i>Culex</i> species collected in Hudson on 8/21/19						
[†] Pool of WNV+ <i>Culex</i> species collected in Holliston on 8/21/19						
[†] Pool of EEE+ <i>Culex</i> species collected in Marlborough on 8/21/19						
[†] Pool of WNV+ <i>Culex</i> species collected in Littleton on 8/22/19						
[†] Pool of WNV+ <i>Culex</i> species collected in Auburn on 8/23/19						
[†] Pool of EEE+ Coquillettidia perturbans collected in Sherborn on 8/25/19						
[†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/28/19						
[†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/28/19						
[†] Pool of EEE+ <i>Coquillettidia perturbans</i> collected in Southborough on 8/28/19						
[†] Pool of EEE+ <i>Coquillettidia perturbans</i> collected in Shrewsbury on 8/28/19						
[†] Pool of EEE+ <i>Culiseta melanura</i> collected in Holliston on 8/28/19						

Cumulative Surveillance Summary

[†]Pool of EEE+ Culiseta melanura collected in Millville on 8/29/19

The weather for this particular week Weather Summary (Northborough, MA): averaged 64.54°F with a recorded high temperature of 84.50°F and a recorded low temperature of only 50.00°F. For this week there was also a total of 0.71 inches of rain observed. Compared to the previous week, it was approximately 1.37°F cooler on average, and rained about 0.71 inches less. There has been 0.71 inches of rain accumulated in September, after 3.37 inches for the month of August.

CMMCP Mosquito Summary-							
Target Species	Δ From	Δ From	Predominant Trap Site(s)				
	Last Week	Last Year					
Aedes vexans	-59.31%	-33.99%	Natick, Dracut				
Coquillettidia perturbans	-81.15%	+283.9%	Boxborough, Milford, Dracut				
Culiseta melanura	-71.30%	+566.9%	Acton, Boxborough				
Ochlerotatus canadensis	+8.330%	+128.9%	Acton				
Culex Species	-69.10%	-50.08%	Boxborough				
All Species	-74.68%	+129.1%	Boxborough, Milford, Dracut				

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

General narrative: The temperatures for EPI week 36 averaged approximately 1.37°F cooler than the previous week, with 0.71 inches of precipitation observed. Ochlerotatus canadensis was the only target mosquitoes that experienced an increase this surveillance week, while all others decreased. Overall there was significant reduction in the general mosquito population, influenced by a continued decrease in *Coquillettidia perturbans*. Despite their decrease, 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 Aedes vexans and Culex. Coquillettidia perturbans should continue to decrease as we enter the last weeks of the 2019 mosquito surveillance season. 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.

•	# 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

Aedes albopictus Surveillance Data

EPI Week #32	25	941
EPI Week #33	-	-
EPI Week #34	-	-
EPI Week #35	-	-
EPI Week #36	-	-







