CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #41 Oct. 6-12, 2019

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Central Mass. Mosquito Control Project Weekly Report- 10/6/19-10/12/19 EPI Week #41

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	291	1228	437	307	1274	6585
Total Specimens	1583	167745	2467	4495	17574	205265
No. Pools WNV +	0	0	0	0	10 [†]	10 [†]
No. Pools EEE +	2 [†]	19 [†]	3 [†]	0	4 [†]	28 [†]

- [†]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+ Coquillettidia 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
- [†]Pool of EEE+ *Culex* species collected in Lowell on 8/9/19
- [†]Pool of WNV+ *Culex* species collected in Worcester on 8/20/19
- [†]Pool of WNV+ *Culex* species collected in Worcester on 8/20/19
- [†]Pool of WNV+ *Culex* species collected in Leominster on 8/20/19
- [†]Pool of EEE+ Coquillettidia perturbans collected in Southborough 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+ Culex 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+ *Culex* species collected in Hudson on 8/21/19
- [†]Pool of WNV+ Culex species collected in Holliston on 8/21/19
- [†]Pool of EEE+ Culex species collected in Marlborough on 8/21/19
- [†]Pool of WNV+ Culex species collected in Littleton on 8/22/19
- [†]Pool of WNV+ *Culex* 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+ Coquillettidia perturbans collected in Southborough on 8/28/19
- [†]Pool of EEE+ Coquillettidia perturbans collected in Shrewsbury on 8/28/19

[†]Pool of EEE+ *Culiseta melanura* collected in Holliston on 8/28/19

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

[†]Pool of EEE+ Culiseta melanura collected in Gardner on 9/24/19

[†]Pool of WNV+ *Culex salinarius* collected in Worcester on 9/27/19

Δ From

-45.25%

Weather Summary (Northborough, MA): The weather for this particular week averaged 54.54°F with a recorded high temperature of 77.00°F and a recorded low temperature of only 33.80°F. For this week there was also a total of 0.45 inches of rain observed. Compared to the previous week, it was approximately 1.93°F cooler on average, and rained about 0.16 inches more. There has been 0.74 inches of rain accumulated in October, after 1.58 inches for the month of September.

CMMCP Mosquito Summary-

Target Species

All Species

	Last Week	Last Year	
Aedes vexans	+25.00%	-54.07%	Lancaster
Coquillettidia perturbans	-83.33%	+283.5%	Dracut
Culiseta melanura	-72.62%	+386.1%	Gardner
Ochlerotatus canadensis	-100.0%	+116.8%	N/A
Culex Species	-21 95%	-49 01%	Westborough

+122.8%

Δ From

Predominant Trap Site(s)

Gardner, Westborough

The predominant mosquito for the week was *Culex*, followed by *Culiseta melanura*.

General narrative: The temperatures for EPI week 41 averaged approximately 1.93°F cooler than the previous week, with 0.45 inches of precipitation observed. All target mosquitoes species experienced decreases this surveillance week, except for *Aedes vexans*, which had a slight increase. Overall there was a continued reduction in the general mosquito population. *Culex* was the most abundant mosquito for the week, followed now by *Culiseta melanura*. Every target species have been collected in higher numbers this year compared to last, except for *Aedes vexans* and *Culex*. The local mosquito population should continue to decrease as evening temperatures drop and natural decline occurs. There were zero additional mosquito pools that tested positive for mosquito-borne disease from the previous week. 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.

Aedes albopictus Surveillance Data

	# 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	-	-
EPI Week #35	-	-
EPI Week #36	-	-
EPI Week #37	-	-
EPI Week #38	-	-
EPI Week #39	-	-
EPI Week #40	-	-
EPI Week #41	-	-













