# **CMMCP WEEKLY SURVEILLANCE REPORT**



EPI week #38 Sept. 15-21, 2019

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## Central Mass. Mosquito Control Project Weekly Report- 9/15/19-9/21/19 EPI Week #38

#### **Cumulative Surveillance Summary**

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	266	1212	395	306	1211	6154
<b>Total Specimens</b>	1519	167704	2287	4494	17455	204476
No. Pools WNV +	0	0	0	0	9†	9†
No. Pools EEE +	2 <sup>†</sup>	19 <sup>†</sup>	2 <sup>†</sup>	0	<b>3</b> †	26 <sup>†</sup>

- <sup>†</sup>Pool of WNV+ *Culex* species collected in Worcester on 7/26/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Stow on 7/31/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 7/31/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 7/31/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/2/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/2/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Worcester on 8/6/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Hopkinton on 8/6/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Westborough on 8/8/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Worcester on 8/20/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Worcester on 8/20/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Leominster on 8/20/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19
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- <sup>†</sup>Pool of EEE+ Culex species collected in Southborough on 8/21/19
- <sup>†</sup>Pool of EEE+ Aedes vexans collected in Southborough on 8/21/19
- <sup>†</sup>Pool of EEE+ Aedes vexans collected in Southborough on 8/21/19
- <sup>†</sup>Pool of EEE+ Culex species collected in Hudson on 8/21/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Holliston on 8/21/19
- <sup>†</sup>Pool of EEE+ Culex species collected in Marlborough on 8/21/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Littleton on 8/22/19
- <sup>†</sup>Pool of WNV+ *Culex* species collected in Auburn on 8/23/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Sherborn on 8/25/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/28/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/28/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/28/19
- <sup>†</sup>Pool of EEE+ Coquillettidia perturbans collected in Shrewsbury on 8/28/19
- <sup>†</sup>Pool of EEE+ Culiseta melanura collected in Holliston on 8/28/19

**Weather Summary (Northborough, MA):** The weather for this particular week averaged 59.86°F with a recorded high temperature of 87.40°F and a recorded low temperature of only 35.50°F. For this week there was also a total of 0.01 inches of rain observed. Compared to the previous week, it was approximately 2.48°F cooler on average, and rained about 0.40 inches less. There has been 1.13 inches of rain accumulated in September, after 3.37 inches for the month of August.

#### **CMMCP Mosquito Summary-**

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
Aedes vexans	-31.17%	-50.29%	Milford, Webster
Coquillettidia perturbans	-78.88%	+283.5%	Westborough, Holliston
Culiseta melanura	-47.69%	+401.1%	Holliston, Chelmsford
Ochlerotatus canadensis	-76.92%	+117.3%	Hopedale, Fitchburg
Culex Species	-72.06%	-49.22%	Holliston, Worcester
All Species	-55.41%	+124.3%	Shrewsbury, Holliston

The predominant mosquito for the week was *Culex*, followed by *Ochlerotatus japonicus*.

General narrative: The temperatures for EPI week 38 averaged approximately 2.48°F cooler than the previous week, with only 0.01 inches of precipitation observed. All target mosquitoes species experienced decreases this surveillance week. Overall there was significant reduction in the general mosquito population, influenced by a continued decrease in *Coquillettidia perturbans*. *Culex* was the most abundant mosquito for the week, followed now by *Ochlerotatus japonicus*. 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. There were no mosquito pools that tested positive for mosquito-borne disease last 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
31	4
21	221
33	530
37	1294
37	1100
-	
35	3527
35	1481
35	1946
35	2373
	31 21 33 37 37 - 35 35 35

EPI Week #32	25	941
EPI Week #33	-	-
EPI Week #34	-	-
EPI Week #35	-	-
EPI Week #36	-	-
EPI Week #37	-	-
EPI Week #38	-	-













