

Central Mass. Mosquito Control Project Weekly Report- 9/8/19-9/14/19 EPI Week #37

| Target Species | Ae. vex | Cq. per | Cs. mel | Oc. can | Culex | All Species | |
|--|--|-----------------|---------------|------------|-------------|-------------|--|
| No. Pools | 233 | 1170 | 359 | 299 | 1151 | 5715 | |
| Total Specimens | 1428 | 167591 | 2225 | 4487 | 17278 | 203518 | |
| 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 | 9 | | |
| | [†] Pool of WNV+ <i>Culex</i> species collected in Stow on 7/31/19 | | | | | | |
| | [†] 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 | | | | | | | |
| [†] Pool of EEE+ Coqu | | | | | gh on 8/2/1 | 9 | |
| [†] Pool of WNV+ Cule | | | | | | | |
| [†] Pool of EEE+ Coqu | • | | | • | | | |
| [†] Pool of EEE+ Coqu | | | | | | | |
| [†] 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 WNV+ Culex species collected in Worcester on 8/20/19 | | | | | | | |
| [†] Pool of WNV+ Cule | | | | | | | |
| | [†] 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 | | | | | | | |
| [†] Pool of EEE+ <i>Coquillettidia perturbans</i> collected in Southborough on 8/21/19 | | | | | | | |
| [†] Pool of EEE+ Coquillettidia perturbans collected in Southborough on 8/21/19 | | | | | | | |
| [†] Pool of EEE+ Coqu | | | | | • | | |
| [†] 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+ <i>Coquillettidia perturbans</i> collected in Sherborn on 8/25/19 | | | | | | | |
| [†] Pool of EEE+ <i>Coquillettidia perturbans</i> 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 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

Weather Summary (Northborough, MA): The weather for this particular week averaged 62.34°F with a recorded high temperature of 85.10°F and a recorded low temperature of only 41.40°F. For this week there was also a total of 0.41 inches of rain observed. Compared to the previous week, it was approximately 2.20°F cooler on average, and rained about 0.30 inches less. There has been 1.12 inches of rain accumulated in September, after 3.37 inches for the month of August.

| CMMCP Mosquito Summary- | | | | | | | |
|---------------------------|-----------|-----------|--------------------------|--|--|--|--|
| Target Species | Δ From | ∆ From | Predominant Trap Site(s) | | | | |
| | Last Week | Last Year | | | | | |
| Aedes vexans | -7.23% | -49.45% | Lancaster | | | | |
| Coquillettidia perturbans | -57.14% | +283.5% | Gardner, Milford | | | | |
| Culiseta melanura | -1.52% | +441.6% | Gardner, Milford | | | | |
| Ochlerotatus canadensis | -50.00% | +128.2% | Gardner | | | | |
| Culex Species | +27.73% | -49.39% | Lancaster, Milford | | | | |
| All Species | -22.48% | +125.5% | Lancaster, Milford | | | | |

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

General narrative: The temperatures for EPI week 37 averaged approximately 2.20°F cooler than the previous week, with 0.41 inches of precipitation observed. Culex 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. Culex became the most abundant mosquito species for the week, followed now by Coquillettidia perturbans. All target species have been collected in higher numbers this year compared to last, except for Aedes vexans and Culex. Coguillettidia 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 |
|--------------|------------|--------|
| 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 | - | - |







