CMMCP WEEKLY SURVEILLANCE REPORT



EPI week #32 Aug. 6-12, 2017

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Central Mass. Mosquito Control Project Weekly Report- 8/6/17-8/12/17 EPI Week #32

Cumulative Surveillance Summary

Target Species	Ae. vex	Cq. per	Cs. mel	Oc. can	Culex	All Species
No. Pools	48	296	45	182	671	2396
Total Specimens	206	13762	122	3274	13681	38343
No. Pools WNV +	0	0	0	0	4 [†]	4 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ Culex species collected in Milford on 7/27/17

Weather Summary (Northborough, MA): The weather for this particular week averaged 68.91°F with a recorded high temperature of 88.20°F and a recorded low temperature of only 54.50°F. For this week there was also a total of 0.12 inches of rain observed. Compared to the previous week, it was approximately 2.78°F cooler on average, and rained about 0.51 inches less. There has been 0.75 inches of rain accumulated in August, after 2.04 inches for the month of July.

CMMCP Mosquito Summary*-

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	Last Week	Last Year			
Aedes vexans	+192.0%	+100.0%	Lunenburg, Lowell, Westford		
Coquillettidia perturbans	-25.08%	-71.22%	Tewksbury, Westford, Billerica		
Culiseta melanura	+73.33%	-82.31%	Hopkinton, Lowell, Ayer		
Ochlerotatus canadensis	+193.8%	-37.51%	Acton, Westford, Lowell		
Culex Species	-22.91%	+85.44%	Westford, Webster		
All Species	-13.91%	-46.20%	Westborough, Westford, Tewksbury		

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Predominant Tran Site(s)

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

EPI Week 32 Narrative:

The temperatures for EPI week 32 averaged approximately 2.78 degrees cooler than the previous week, with 0.12 inches of precipitation observed. Overall collection numbers decreased by 13.91% from EPI week 31. The only target mosquitoes not to increase from the prior collection period were *Coquillettidia perturbans* and *Culex*. To this point in the season, all target species have been collected in lower numbers compared to 2016 aside from *Ae. vexans* and *Culex*. This week *Cq. perturbans* was the most abundant mosquito in the CMMCP service area followed by *Culex*. *Cq. perturbans* may continue to decrease as the season progresses. Two additional mosquito pools collected in EPI

[†]Pool of WNV+ *Culex* species collected in Ashland on 7/27/17

[†]Pool of WNV+ Culex species collected in Chelmsford on 8/1/17

[†]Pool of WNV+ *Culex* species collected in Millbury on 8/4/17

week 31 were determined to be WNV positive. One collection was from a trap site in Chelmsford, with the other originating from Millbury. Additionally, *Aedes albopictus* was detected in Ayer through mosquito eggs collected in CMMCP ovitraps.

We have received 183% more service requests than the 14 year average (15,065 in 2017 v. 8,236 14 yr. avg.), and 5% more than this time in 2016 (15,065 in 2017 v. 14,340 in 2016). Service requests decreased 2.17% from Epi week 31. 537 service requests were received and 630 requests were performed in Epi week 32 with favorable weather conditions. Vector spraying was done in Chelmsford on August 9 after confirmation of WNV in *Culex* and coordination with local health officials.















