

Central Mass. Mosquito Control Project

2010 SEASON SUMMARY

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	100	275	193	73	786	2791
Total Specimens	1727	8655	731	421	9302	27085
No. Pools WNV +	0	0	0	0	11 [†]	11 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquillettidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/9/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/14/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/15/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/23/10

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Horse in Hudson tested positive for WNV, onset date of 9/17/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Human in Worcester tested positive for WNV, onset date of 8/25/10

Weather Summary (Northborough, MA): This mosquito season was much drier than the previous season. Statewide monthly rainfall averages were as follows: May-2.78" (CMMCP/Northborough 2.42"); June-3.54" (CMMCP/Northborough 3.89"); July-2.75" (CMMCP/Northborough 1.48"); August-4.25" (CMMCP/Northborough 2.50"); September-2.11" (CMMCP/Northborough 1.77"). For the year we received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Year's totals	Predominant Trap Site(s)
<i>Aedes vexans</i> *	+58.37%	Chelmsford
<i>Coquillettidia perturbans</i> *	-38.50%	Millbury, Acton
<i>Culiseta melanura</i> *	-66.32%	Holliston
<i>Ochlerotatus canadensis</i>	-54.11%	Hopkinton
<i>Culex</i> Species	-38.86%	Auburn, Shrewsbury
All Species	-38.83%	Chelmsford, Holliston, Auburn

The predominant mosquito species for the 2010 surveillance season was *Culex* Species (~37.49% of total specimens collected) followed by *Coquillettidia perturbans* (~28.53% of total specimens collected).

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 9/26/10 – 10/2/10

EPI Week #39

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	97	275	192	73	784	2780
Total Specimens	1723	8655	730	421	9299	27070
No. Pools WNV +	0	0	0	0	11 [†]	11 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquillettidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/9/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/14/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/15/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/23/10

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Horse in Hudson tested positive for WNV, onset date of 9/17/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Human in Worcester tested positive for WNV, onset date of 8/25/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 64.1°F with a recorded high temperature of 81.6°F and a recorded low temperature of only 44.4°F. For this week there was a total of 2.36 inches of rain observed. Compared to the previous week, it was approximately 2.6°F cooler on average, and rained 2.35 inches more. There has been 1.66 inches of rain accumulated in October. September finished with 1.47 inches of rain in the CMMCP area, while August, July and June finished with 2.50, 1.48 and 3.89 inches respectively. Standard spray operations have ceased due to low service requests and predominant weather patterns. Vector control will be available if needed according to weather conditions and other factors. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
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<i>Aedes vexans</i> *	-78.13%	+ ∞	Milford
<i>Coquilleltidia perturbans</i> *	+33.33%	+33.33%	Acton
<i>Culiseta melanura</i> *	-37.50%	-96.18%	Holliston
<i>Ochlerotatus canadensis</i>	-00.00%	-100.0%	N/A
<i>Culex</i> Species	-76.79%	-69.05%	Northbridge, Natick
All Species	-39.69%	-25.48%	Natick, Milford

The predominant mosquito for the week was *Oc. japonicus*, followed by *Ae. vexans*

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 9/19/10 – 9/25/10

EPI Week #38

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	85	272	189	73	771	2702
Total Specimens	1634	8651	693	421	9269	26509
No. Pools WNV +	0	0	0	0	10 [†]	10 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquilleltidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/9/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/14/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/15/10

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Horse in Hudson tested positive for WNV, onset date of 9/17/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Human in Worcester tested positive for WNV, onset date of 8/25/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 66.7°F with a recorded high temperature of 85.6°F and a recorded low temperature of only 40.3°F. For this week there was a total of 0.01 inches of rain observed. Compared to the previous week, it was approximately 6.8°F warmer on average, and rained 0.28 inches less. There has been 0.77 inches of rain accumulated in September. August finished with 2.50 inches of rain in the CMMCP area (4.25 statewide), while July and June finished with 1.48 inches and 3.89 inches respectively. Standard spray operations have ceased due to low service requests and predominant weather patterns. Vector control will be available if needed according

to weather conditions and other factors. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i> *	+228.2%	+2613%	Chelmsford
<i>Coquilleltidia perturbans</i> *	-66.67%	+200.0%	Millbury
<i>Culiseta melanura</i> *	+33.33%	-95.77%	Fitchburg, Westborough
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-23.29%	-35.63%	Billerica
All Species	+46.08%	-3.51%	Chelmsford

The predominant mosquito for the week was *Ae. vexans*, followed by *Cq. perturbans* and *Culex* Species.

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 9/12/10 – 9/18/10

EPI Week #37

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	70	269	183	73	745	2605
Total Specimens	1210	8647	684	421	9052	25588
No. Pools WNV +	0	0	0	0	9 [†]	9 [†]
No. Pools EEE +	0	0	0	0	0	0

[†]Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

[†]Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquilleltidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

[†]Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

[†]Pool of WNV+ *Culex* Species collected in Auburn on 9/9/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/14/10 (DPH collection)

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 59.86°F with a recorded high temperature of 73.1°F and a recorded low temperature of only 42.2°F. For this week there was a total of 0.29 inches of rain observed. Compared to the previous week, it was approximately 5.45°F

cooler on average, and rained 0.20 inches more. There has been 0.76 inches of rain accumulated in September. August finished with 2.50 inches of rain in the CMMCP area (4.25 statewide), while July and June finished with 1.48 inches and 3.89 inches respectively. Standard spray operations have ceased due to low service requests and predominant weather patterns. Vector control will be available if needed according to weather conditions and other factors. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i> *	-92.85%	+6100%	Natick, Milford
<i>Coquilleltidia perturbans</i> *	-88.14%	+28.57%	Holliston
<i>Culiseta melanura</i> *	-100.0%	-88.68%	Westborough
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-13.64%	-71.03%	Natick
All Species	-80.81%	-45.52%	Natick, Holliston, Milford

The predominant mosquito for the week was *Ae. vexans*, followed by *Cq. perturbans* and *Culex* Species.

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 9/5/10 – 9/11/10

EPI Week #36

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	56	266	175	73	729	2507
Total Specimens	1036	8637	672	421	8957	24999
No. Pools WNV +	0	0	0	0	8†	8†
No. Pools EEE +	0	0	0	0	0	0

†Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

†Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

†Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

†Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

†Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

†Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquilleltidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

†Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

†Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Pool of WNV+ *Culex* Species collected in Grafton on 9/4/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 9/4/10 (DPH collection)

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Human in Worcester tested positive for WNV, onset date of 8/19/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 65.31°F with a recorded high temperature of 86.1°F and a recorded low temperature of only 48.5°F. For this week there was a total of 0.09 inches of rain observed. Compared to the previous week, it was approximately 12.35°F cooler on average, and rained 0.29 inches less. There has been 0.47 inches of rain accumulated in September. August finished with 2.50 inches of rain in the CMMCP area (4.25 statewide), while July and June finished with 1.48 inches and 3.89 inches respectively. Standard spray operations have ceased due to low service requests and predominant weather patterns. Vector control will be available if needed according to weather conditions and other factors. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758. Requests were 30% less than the 2009 totals; 9,777 in 2010 against 12,762 in 2009.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i> *	+ ∞	+3115%	Chelmsford
<i>Coquilleltidia perturbans</i> *	+7.270%	+490.0%	Westford, Chelmsford
<i>Culiseta melanura</i> *	-75.00%	-95.45%	Clinton
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-74.71%	-79.63%	Shrewsbury, Hudson
All Species	+248.1%	+116.2%	Chelmsford

The predominant mosquito for the week was *Ae. vexans*, followed by *Cq. perturbans* and *Culex* Species.

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 8/29/10 – 9/4/10

EPI Week #35

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	40	258	174	73	707	2419
Total Specimens	199	8543	671	421	8837	23674
No. Pools WNV +	0	0	0	0	8*	8*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Pool of EEE+ *Coquilleltidia perturbans* collected in Bolton on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

Pool of WNV+ *Culex* Species collected in Worcester on 8/20/10 (DPH collection)

*Pool of WNV+ *Culex* Species collected in Natick on 8/25/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/26/10

Horse in Warren tested positive for EEE, onset date of 7/31/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 77.66°F with a recorded high temperature of 95.8°F and a recorded low temperature of only 57.5°F. For this week there was a total of 0.38 inches of rain observed. Compared to the previous week, it was approximately 12.79°F

warmer on average, and rained 1.71 inches less. There has been 0.38 inches of rain accumulated in September. August finished with 2.50 inches of rain in the CMMCP area (4.25 statewide), while July and June finished with 1.48 inches and 3.89 inches respectively. Requests for spraying totaled 176 this week, 27% less than the 7 year average of 224 for EPI week #35. This is even with EPI week #34. For the year we have received 26% more requests than average; 9,777 requests to date compared to the 7 year average of 7,758.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i> *	-30.77%	-18.18%	Natick, Northborough
<i>Coquilleltidia perturbans</i> *	+17.92%	+861.5%	Northborough, Shrewsbury
<i>Culiseta melanura</i> *	-72.22%	-88.89%	Stow
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-8.000%	-55.66%	Leominster, Westford
All Species	+2.230%	-41.26%	Hopkinton, Shrewsbury

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project Weekly Report- 8/22/10 - 8/28/10 EPI Week #34

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	35	243	166	73	671	2298
Total Specimens	178	8329	660	421	8412	22587
No. Pools WNV +	0	0	0	0	6*	6*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 64.87°F with a recorded high temperature of 82.9°F and a recorded low temperature of only 49.1°F. For this week there was a total of 2.09 inches of rain observed. Compared to the previous week, it was approximately 7.43°F cooler on average, and rained 1.98 inches more. There has been 2.50 inches of rain accumulated in August. July finished with 1.48 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 173 this week, 56% less than the 7 year average of 270 for EPI week #34. This is 74% less than EPI week #33. For the year we have received 27% more requests than average; 9,601 requests to date compared to the 7 year average of 7,534.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From	Δ From	Predominant Trap Site(s)
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	Last Week	Last Year	
<i>Aedes vexans</i> *	+550.0%	-70.45%	Clinton, Chelmsford
<i>Coquilleltidia perturbans</i>	-16.54%	-33.75%	Clinton, Tewksbury
<i>Culiseta melanura</i> *	+1700%	-70.00%	Billerica, Tewksbury
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-37.30%	-60.94%	Auburn, Shrewsbury
All Species	-22.00%	-58.02%	Auburn, Clinton

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 8/15/10 - 8/21/10

EPI Week #33

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	28	223	159	72	615	2123
Total Specimens	78	7955	634	420	7596	20504
No. Pools WNV +	0	0	0	0	6*	6*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Chelmsford on 8/11/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/13/10

*Horse in Lancaster tested positive for EEE, onset date of 8/12/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 72.30°F with a recorded high temperature of 89.0°F and a recorded low temperature of only 50.2°F. For this week there was a total of 0.11 inches of rain observed. Compared to the previous week, it was approximately 0.96°F cooler on average, and rained 0.14 inches less. There has been 0.41 inches of rain accumulated in August. July finished with 1.48 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 301 this week, eve with the 7 year average of 303 for EPI week #33. This is 31% more than EPI week #32. For the year we have received 30% more requests than average; 9,428 requests to date compared to the 7 year average of 7,264.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i> *	-71.43%	-85.71%	Sherborn, Northborough
<i>Coquilleltidia perturbans</i>	-79.04%	-44.05%	Hopkinton, Holliston
<i>Culiseta melanura</i> *	-94.74%	-97.14%	Stow
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	-44.43%	-58.73%	Auburn, Millville
All Species	-50.50%	-51.17%	Littleton, Shrewsbury

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project
Weekly Report- 8/8/10 - 8/14/10
EPI Week #32

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	24	208	156	72	571	1956
Total Specimens	73	7764	628	420	7007	19259
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 Berlin on 7/29/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

*Pool of WNV+ *Culex* Species collected in Auburn on 8/4/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.26°F with a recorded high temperature of 92.3°F and a recorded low temperature of only 51.0°F. For this week there was a total of 0.25 inches of rain observed. Compared to the previous week, it was approximately 0.21°F cooler on average, and rained 0.20 inches more. There has been 0.30 inches of rain accumulated in August. July finished with 1.48 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 229 this week, 26% less than the 7 year average of 289 for EPI week #32. This is 113% less than EPI week #31. For the year we have received 31% more requests; 9,127 requests to date compared to the 7 year average of 6,961.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+600.0%*	-89.86%	Millbury, Webster
<i>Coquillettidia perturbans</i>	+306.7%	-1.460%	Millbury, Webster
<i>Culiseta melanura</i>	+375.0%	-56.82%	Webster, Tewksbury
<i>Ochlerotatus canadensis</i>	+00.00%	-100.0%	N/A
<i>Culex</i> Species	+29.86%	-48.75%	Hudson, Shrewsbury
All Species	+92.55%	-46.64%	Millbury, Webster

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project
Weekly Report- 8/1/10 - 8/7/10
EPI Week #31

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	19	185	142	71	509	1719

Total Specimens	61	6855	600	410	5825	16573
No. Pools WNV +	0	0	0	0	1	1
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Berlin on 7/29/10

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.47°F with a recorded high temperature of 91.8°F and a recorded low temperature of only 53.5°F. For this week there was a total of 0.05 inches of rain observed. Compared to the previous week, it was approximately 0.16°F cooler on average, and rained 0.03 inches more. July finished with 1.48 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 489 this week, 34% more than the 7 year average of 365 for EPI week #31. This is about even from EPI week #30. For the year we have received 34% more requests; 8,898 requests to date compared to the 7 year average of 6,672.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-66.66%	-98.25%	Fitchburg
<i>Coquillettidia perturbans</i>	-31.65%	-60.05%	Stow, Littleton
<i>Culiseta melanura</i>	+400.0%*	-88.24%	Holliston
<i>Ochlerotatus canadensis</i>	-100.0%	-100.0%	N/A
<i>Culex</i> Species	+137.6%	-47.07%	Shrewsbury, Northbridge, Auburn
All Species	+31.34%	-58.33%	Shrewsbury, Northbridge, Stow

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 7/25/10-7/31/10

EPI Week #30

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	16	166	134	69	448	1533
Total Specimens	50	6601	583	391	4802	14852
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 73.63°F with a recorded high temperature of 90.7°F and a recorded low temperature of only 54.6°F. For this week there was a total of 0.02 inches of rain observed. Compared to the previous week, it was approximately 1.31°F cooler on average, and rained 0.85 inches less. July finished with 1.48 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 497 this week, 34% more than the 7 year average of 371 for EPI week #30. This is a 40% increase from EPI week #29. For the year we have received 34% more requests; 8,409 requests to date compared to the 7 year average of 6,307.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From	Δ From	Predominant Trap Site(s)
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	Last Week	Last Year	
<i>Aedes vexans</i>	+300%*	-92.86%	Stow
<i>Coquilleltidia perturbans</i>	-65.18%	-72.05%	Stow, Billerica, Lancaster
<i>Culiseta melanura</i>	-100.0%	-100.0%	Westford
<i>Ochlerotatus canadensis</i>	+00.00%	-96.67%	Chelmsford
<i>Culex</i> Species	-74.20%	-76.15%	Auburn, Ashland, Westborough
All Species	-63.15%	-72.58%	Stow, Lancaster

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

*Single digit specimens collected

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 7/18/10-7/24/10

EPI Week #29

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	11	148	127	68	395	1341
Total Specimens	27	6303	575	390	4353	13767
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 74.94°F with a recorded high temperature of 90.4°F and a recorded low temperature of only 60.1°F. For this week there was a total of 0.87 inches of rain observed. Compared to the previous week, it was approximately 1.96°F cooler on average, and rained 0.45 inches more. July has accumulated only 1.46 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 355 this week, 35% less than the 7 year average of 480 for EPI week #29. This is a 23% decrease from EPI week #28. For the year we have received 33% more requests; 7,912 requests to date compared to the 7 year average of 5,936.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-100.0%	-100.0%	N/A
<i>Coquilleltidia perturbans</i>	-21.85%	-63.88%	Acton
<i>Culiseta melanura</i>	-65.52%	-93.15%	Holliston
<i>Ochlerotatus canadensis</i>	-50.00%	-96.15%	Stow
<i>Culex</i> Species	+146.1%	+4.640%	Auburn, Westborough
All Species	+22.19%	-50.92%	Acton, Holliston, Auburn

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

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 7/11/10-7/17/10

EPI Week #28

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	10	132	116	67	337	1159
Total Specimens	26	5131	548	389	3398	11047
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 76.90°F with a recorded high temperature of 92.5°F and a recorded low temperature of only 64.8°F. For this week there was a total of 0.42 inches of rain observed. Compared to the previous week, it was approximately 3.80°F cooler on average, and rained 0.25 inches more. July has accumulated only 0.59 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 437 this week, 21% less than the 7 year average of 527 for EPI week #28. This is a 15% decrease from EPI week #27. For the year we have received 38% more requests; 7,557 requests to date compared to the 7 year average of 5,456.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-83.33%	-98.46%	Billerica
<i>Coquilleltidia perturbans</i>	+40.00%	-39.32%	Westford, Billerica
<i>Culiseta melanura</i>	+400.0%	-46.30%	Westford, Webster
<i>Ochlerotatus canadensis</i>	-50.00%	-95.92%	Westford, Webster
<i>Culex</i> Species	+51.46%	-55.61%	Chelmsford, Auburn
All Species	+41.00%	-47.58%	Westford, Billerica

The predominant mosquito for the week was *Coquilleltidia perturbans*.

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project Weekly Report- 7/4/10-7/10/10 EPI Week #27

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	9	108	104	65	288	1067
Total Specimens	25	4270	515	387	2922	9480
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 80.7°F with a recorded high temperature of 99.9°F and a recorded low temperature of only 60.3°F. For this week there was a total of 0.18 inches of rain observed. Compared to the previous week, it was approximately 8.99°F warmer on average, and rained 0.18 inches more. July has accumulated only 0.18 inches of rain, while the total rainfall for the month of June was 3.54 inches. Requests for spraying totaled 504 this week, about even with the 7 year average of 501 for EPI week #27. This is a 22% decrease from EPI week #26. For the year we have received 44% more requests; 7,120 requests to date compared to the 7 year average of 4,929.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+300.0%	+50.00%	Hopkinton, Shrewsbury
<i>Coquillettidia perturbans</i>	-13.67%	+9.090%	Auburn, Acton
<i>Culiseta melanura</i>	-75.00%	-93.33%	Holliston
<i>Ochlerotatus canadensis</i>	-71.43%	-33.33%	Auburn, Shrewsbury
<i>Culex</i> Species	-21.37%	+41.10%	Westford, Northbridge
All Species	-17.67%	-2.970%	Holliston, Auburn, Acton

The predominant mosquito for the week was *Coquillettidia perturbans*.

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 6/27/10-7/3/10

EPI Week #26

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	6	98	97	63	256	945
Total Specimens	19	3910	474	385	2556	8516
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 71.71°F with a recorded high temperature of 90.7°F and a recorded low temperature of only 52.1°F. For this week there was a total of 0.00 inches of rain observed. Compared to the previous week, it was approximately 2.48°F cooler on average, and rained about .54 inches less. June accumulated 3.89 inches of rain, while the total rainfall for the month of May was 3.02 inches. Requests for spraying totaled 616 this week, even with the 7 year average of 615 for EPI week #26. This is a 33% decrease from EPI week #25. For the year we have received 49% more requests; 6,616 requests to date compared to the 7 year average of 4,428.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+200.0%	+33.33%	Westborough
<i>Coquillettidia perturbans</i>	+02.21%	-62.76%	Westford, Lancaster, Millbury
<i>Culiseta melanura</i>	-63.38%	-77.97%	Westford, Chelmsford
<i>Ochlerotatus canadensis</i>	-84.76%	-73.77%	Westford, Leominster
<i>Culex</i> Species	-24.71%	-02.52%	Leominster, Clinton
All Species	-11.46%	-54.17%	Leominster, Westford, Lancaster

The predominant mosquito for the week was *Coquillettidia perturbans*.

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 6/20/10-6/26/10

EPI Week #25

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	4	70	79	55	198	732
Total Specimens	6	2191	437	369	1841	5748
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 74.19°F with a recorded high temperature of 91.2°F and a recorded low temperature of only 57.6°F. For this week there was a total of 0.54 inches of rain observed. Compared to the previous week, it was approximately 6.86°F warmer on average, and rained about .49 inches more. June has accumulated 3.89 inches of rain, while the total rainfall for the month of May was 2.42 inches. Requests for spraying totaled 819 this week, 13% above the 7 year average of 725 for EPI week #25. This is a 30% increase from EPI week #24. For the year we have received 57% more requests; 6,000 requests to date compared to the 7 year average of 3,813.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-100.0%	-100.0%	N/A
<i>Coquilleltidia perturbans</i>	+41.58%	+117.5%	Shrewsbury, Stow
<i>Culiseta melanura</i>	-6.580%	-56.44%	Holliston
<i>Ochlerotatus canadensis</i>	+707.7%	+75.00%	Hopkinton
<i>Culex</i> Species	+82.92%	+221.3%	Southborough, Hopedale
All Species	+54.89%	+85.64%	Shrewsbury, Holliston

The predominant mosquito for the week was *Coquilleltidia perturbans*.

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 6/13/10-6/19/10

EPI Week #24

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	4	48	57	43	144	497
Total Specimens	6	906	279	262	984	3094
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 67.33°F with a recorded high temperature of 89.7°F and a recorded low temperature of only 49.2°F. For this week there was also a total of 0.13 inches of rain observed. Compared to the previous week, it was approximately 6.29°F warmer on average, and rained about 1.98 inches less. June has accumulated 3.35 inches of rain, while the total rainfall for the month of May was 2.42 inches. Requests for spraying totaled 631 this week, 11% below the 7 year average of 699 for EPI week #24. This is a 15% decrease from EPI week #23. For the year we have received 68% more requests; 5,181 requests to date compared to the 7 year average of 3,088.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-75.00%	+00.00%	Dracut
<i>Coquilleltidia perturbans</i>	+569.1%	+54.62%	Lunenburg, Wilmington
<i>Culiseta melanura</i>	+153.3%	-35.04%	Lunenburg, Wilmington, Tewksbury
<i>Ochlerotatus canadensis</i>	-81.16%	-64.86%	Holliston
<i>Culex</i> Species	+264.9%	+16.12%	Auburn
All Species	+216.4%	+21.72%	Lunenburg, Wilmington, Auburn

The predominant mosquito for the week was *Coquilleltidia perturbans*.

Submitted by **Frank Cornine**, CMMCP Field Biologist

Central Mass. Mosquito Control Project

Weekly Report- 6/6/10-6/12/10

EPI Week #23

Cumulative Surveillance Summary

Target Species	<i>Ae. vex</i>	<i>Cq. per</i>	<i>Cs. mel</i>	<i>Oc. can</i>	<i>Culex</i>	All Species
No. Pools	3	22	42	33	93	326
Total Specimens	5	155	198	234	386	1463
No. Pools WNV +	0	0	0	0	0	0
No. Pools EEE +	0	0	0	0	0	0

Weather Summary (Northborough, MA): The weather for this particular week averaged 61.04°F with a recorded high temperature of 80.9°F and a recorded low temperature of only 45.2°F. For this week there was also a total of 2.11 inches of rain observed. Compared to the previous week, it was approximately 10.17°F cooler on average, and rained about 1 inch more. The total rainfall for the month of May was 2.42 inches. Requests for spraying totaled 729 this week, 11% below the 7 year average of 811 for EPI week #23. This is a 33% decrease from EPI week #22. For the year we have received 91% more requests; 4,550 requests to date compared to the 7 year average of 2,389.

CMMCP 2010 Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+400.0%	+300.0%	Northborough, Shrewsbury
<i>Coquilleltidia perturbans</i>	+340.0%	+23.60%	Marlborough, Holliston
<i>Culiseta melanura</i>	-40.00%	-90.07%	Hopkinton
<i>Ochlerotatus canadensis</i>	+68.29%	+43.75%	Hopkinton, Boxborough
<i>Culex</i> Species	+50.98%	-33.04%	Marlborough, Acton
All Species	+84.16%	-40.29%	Marlborough, Hopkinton, Holliston

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

*Low early season numbers may contribute to these comparisons being not as significant as they appear

Submitted by **Frank Cornine**, CMMCP Field Biologist

PRIOR YEAR'S REPORTS:

[2009 Surveillance data](#)

[2008 Surveillance data](#)

[2007 Surveillance data](#)

[2006 Surveillance data](#)

CMMCP District information – the 39 cities and towns in the CMMCP service area are broken down into 5 Districts. Each District has a Crew Leader and Field Technician assigned full time. A general description of these Districts would be: **District 1 (yellow)**, Northeast; **District 2 (blue)**, Northwest; **District 3 (green)**, Central; **District 4 (red)**, Southeast and **District 5 (gray)**, Southwest.



