

Central Mass. Mosquito Control Project

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	136	269	355	180	888	3786
Total Specimens	836	10578	2114	852	13980	37274
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	3*	0	0	3*

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

*Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09

*Pool of EEE+ *Culiseta melanura* collected in Webster on 9/22/09

*Pool of EEE+ *Culiseta melanura* collected in Leominster on 9/22/09

*Pool of EEE+ *Culiseta melanura* collected in Webster on 10/9/09

Weather Summary (Northborough, MA): This mosquito season was extremely wet. Statewide monthly rainfall averages were as follows: May-4.04" (CMMCP/Northborough 2.71"); June-5.84" (CMMCP/Northborough 4.2"); July-7.80" (CMMCP/Northborough 12.1"); August-4.15" (CMMCP/Northborough 3.75"); September-2.21" (CMMCP/Northborough 2.41").

CMMCP 2009 Mosquito Summary-

Target Species Δ From Last Predominant Trap Sites
Year's Final Totals

<i>Aedes vexans</i>	-69.86%	Westborough, Dracut
<i>Coquillettidia perturbans</i>	-32.32%	Leominster, Tewksbury, Westborough
<i>Culiseta melanura</i>	+31.06%	Holliston, Boxborough
<i>Ochlerotatus canadensis</i>	-46.82%	Westborough, Hopkinton, Westford
<i>Culex</i> Species	+13.95%	Auburn, Northborough, Leominster
All Species	-7.240%	Leominster, Westford, Westborough

The predominant mosquito species for the 2009 surveillance season was *Culex* Species (~37.51% of total specimens collected) followed by *Coquillettidia perturbans* (~28.38% of total specimens collected).

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

Central Mass. Mosquito Control Project

Weekly Report- 10/4/09-10/10/09

EPI Week #40

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	136	269	355	180	888	3786
Total Specimens	836	10578	2114	852	13980	37274
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	3*	0	0	3*

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

- *Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09
- *Pool of EEE+ *Culiseta melanura* collected in Webster on 9/22/09
- *Pool of EEE+ *Culiseta melanura* collected in Leominster on 9/22/09
- *Pool of EEE+ *Culiseta melanura* collected in Webster on 10/9/09

Weather Summary (Northborough, MA): The weather for this particular week averaged only 56.1°F with a recorded high temperature of 73.3°F and a recorded low temperature of 39.3°F. For this week there was 0.58 inches of rain observed, with October comprising 1.49 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately .77°F cooler on average, and rained about 1.31 inches less. The total statewide rainfall for the month of September was 2.21" (CMMCP/Northborough 2.41"). Scheduled spraying has ended due to low nighttime temperatures, a decrease in service requests and overall lower trap counts.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+100.0%	-99.86%	Berlin
<i>Coquilleltidia perturbans</i>	-100.0%	-100.0%	N/A
<i>Culiseta melanura</i>	-51.15%	-40.74%	Fitchburg, Millbury
<i>Ochlerotatus canadensis</i>	-66.67%	-98.50%	Uxbridge
<i>Culex</i> Species	-71.43%	-79.66%	Blackstone, Clinton, Uxbridge
All Species	-67.24%	-94.02%	Blackstone

**Comparisons may not be as significant as they appear due to low overall numbers.

Culiseta melanura was the predominant mosquito species for the week.

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

Central Mass. Mosquito Control Project Weekly Report- 9/27/09-10/3/09 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	130	269	331	175	876	3670
Total Specimens	820	10578	1981	845	13963	36926
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	2*	0	0	2*

- *Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09
- *Pool of WNV+ *Culex* Species collected in Westford on 8/6/09
- *Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09
- *Pool of EEE+ *Culiseta melanura* collected in Webster on 9/22/09
- *Pool of EEE+ *Culiseta melanura* collected in Leominster on 9/22/09

Weather Summary (Northborough, MA): The weather for this particular week averaged only 55.33°F with a recorded high temperature of 74.9°F and a recorded low temperature of 40.2°F. For this week there was 1.89 inches of rain observed, with October comprising 0.91 inches (CMMCP/Northborough). Compared to the previous week, it was approximately 5.68°F cooler on average, and rained about 1.88 inches more. The total statewide rainfall for the month of September was 2.21" (CMMCP/Northborough 2.41"). Scheduled

spraying has ended due to low nighttime temperatures, a decrease in service requests and overall lower trap counts.

CMMCP 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>	+200.0%	-57.14%	Holliston, Dracut
<i>Culiseta melanura</i>	-30.69%	+351.7%	Westborough, Ashland, Hopkinton
<i>Ochlerotatus canadensis</i>	-71.43%	-14.29%	Boxborough, Hopkinton
<i>Culex</i> Species	-51.72%	-64.41%	Boxborough, Milford
All Species	-21.91%	+87.55%	Westborough, Hopedale

**Comparisons may not be as significant as they appear due to low overall numbers.

Culiseta melanura was the predominant mosquito species for the week.

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

Central Mass. Mosquito Control Project Weekly Report- 9/20/09-9/26/09 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	126	266	306	171	859	3546
Total Specimens	790	10573	1806	837	13916	36292
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	2*	0	0	2*

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

*Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09

*Pool of EEE+ *Culiseta melanura* collected in Webster on 9/22/09

*Pool of EEE+ *Culiseta melanura* collected in Leominster on 9/22/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 61.01°F with a recorded high temperature of 80.5°F and a recorded low temperature of only 36.9°F. For this week there was only .1 inches of rain observed, with September comprising 1.43 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 1.3°F warmer on average, and rained about .4 inches less. The total statewide rainfall for the month of August was 4.15" (CMMCP/Northborough 3.75"). Scheduled spraying has ended due to low nighttime temperatures, a decrease in service requests and overall lower trap counts.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+650.0%	+25.00%	Dracut, Wilmington, Clinton
<i>Coquilleltidia perturbans</i>	-85.71%	-93.75%	Uxbridge
<i>Culiseta melanura</i>	+256.6%	+626.9%	Millbury, Webster

<i>Ochlerotatus canadensis</i>	+200.0%	+10.53%	Uxbridge, Millbury, Westborough
<i>Culex</i> Species	-65.48%	-58.77%	Hudson, Auburn
All Species	-17.52%	+54.92%	Millbury

**Comparisons may not be as significant as they appear due to low overall numbers.

Culiseta melanura was the predominant mosquito species for the week.

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

Central Mass. Mosquito Control Project

Weekly Report- 9/13/09-9/19/09

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	118	265	264	165	817	3319
Total Specimens	765	10572	1548	815	13725	35223
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

*Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 59.71°F with a recorded high temperature of 79.2°F and a recorded low temperature of only 43.3°F. For this week there was only .5 inches of rain observed, with September comprising 1.33 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately .2°F warmer on average, and rained about .31 inches less. The total statewide rainfall for the month of August was 4.15" (CMMCP/Northborough 3.75"). Scheduled spraying has ended due to low nighttime temperatures, a decrease in service requests and overall lower trap counts.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-90.00%	-93.94%	Westborough
<i>Coquillettidia perturbans</i>	-30.00%	-78.13%	Holliston
<i>Culiseta melanura</i>	+140.9%	-47.52%	Hopkinton, Holliston
<i>Ochlerotatus canadensis</i>	-66.67%	-58.82%	Hopkinton, Stow
<i>Culex</i> Species	+133.3%	-29.81%	Northborough, Hudson
All Species	+86.86%	-5.720%	Hudson, Northborough, Ashland

The predominant mosquito for the week was *Culex* Species.

Submitted by **Frank Cornine**, CMMCP Field Biologist – 23-Sep-09

Central Mass. Mosquito Control Project

Weekly Report- 9/6/09-9/12/09

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	112	259	245	161	786	3116
Total Specimens	729	10565	1470	807	13433	34153
No. Pools WNV +	0	0	0	0	3*	3*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

*Pool of WNV+ *Culex* Species collected in Shrewsbury on 9/2/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 59.51°F with a recorded high temperature of 77.6°F and a recorded low temperature of only 44.5°F. For this week there was only .81 inches of rain observed, with September comprising .83 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 5.06°F cooler on average, and rained about .78 inches more. The total statewide rainfall for the month of August was 4.15" (CMMCP/Northborough 3.75"). Scheduled spraying has ended due to low nighttime temperatures, a decrease in service requests and overall lower trap counts.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+81.82%	-20.00%	Shrewsbury
<i>Coquilleltidia perturbans</i>	-23.08%	-76.19%	Westford
<i>Culiseta melanura</i>	-51.11%	-33.33%	Westborough, Westford
<i>Ochlerotatus canadensis</i>	+320.0%	+23.53%	Northbridge
<i>Culex</i> Species	-73.98%	-42.55%	Stow
All Species	-58.64%	-6.280%	Stow, Northbridge

The predominant mosquito for the week was *Culex* Species.

Submitted by **Frank Cornine**, CMMCP Field Biologist – 16-Sep-09

Central Mass. Mosquito Control Project Weekly Report- 8/30/09-9/5/09 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	101	253	229	157	740	2925
Total Specimens	696	10553	1435	784	13066	33169
No. Pools WNV +	0	0	0	0	2*	2*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 64.57°F with a recorded high temperature of 84°F and a recorded low temperature of only 46°F. For this week there was

only .03 inches of rain observed, with September comprising .02 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 4.66°F cooler on average, and rained about 2.06 inches less. The total statewide rainfall for the month of August was 4.15" (CMMCP/Northborough 3.75"). Requests for spraying totaled 189 this week, 22% below the 6 year average of 230 for EPI week #35. This is a 235% decrease from EPI week #34. For the year we have received 96% more requests; 13,614 requests to date compared to the 6 year average of 6,926.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-75.00%	-67.65%	Northborough
<i>Coquilleltidia perturbans</i>	-91.88%	-80.30%	Boxborough, Hopkinton, Littleton
<i>Culiseta melanura</i>	-25.00%	+275.0%	Holliston, Westborough, Acton
<i>Ochlerotatus canadensis</i>	-66.67%	-70.59%	Hopkinton
<i>Culex</i> Species	-18.95%	-18.47%	Shrewsbury, Northborough
All Species	-26.95%	+9.580%	Shrewsbury, Webster, Hopedale

The predominant mosquito for the week was *Culex* Species.

Submitted by **Frank Cornine**, CMMCP Field Biologist – 10-Sep-09

Central Mass. Mosquito Control Project

Weekly Report- 8/23/09-8/29/09

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	94	243	210	152	690	2688
Total Specimens	685	10540	1381	778	12409	31675
No. Pools WNV +	0	0	0	0	2*	2*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 69.23°F with a recorded high temperature of 87.8°F and a recorded low temperature of only 54.1°F. For this week there was 2.09 inches of rain observed, with August comprising 3.74 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 10.18°F cooler on average, and rained about 1.34 inches more. The total statewide rainfall for the month of July was 7.80" (CMMCP/Northborough 12.1"). Requests for spraying totaled 446 this week, 185% above the 6 year average of 241 for EPI week #34. This is a 80% decrease from EPI week #33. For the year we have received 87% more requests; 12,573 requests to date compared to the 6 year average of 6,696.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+214.3%	+109.5%	Northbridge, Westborough
<i>Coquilleltidia perturbans</i>	-29.52%	-41.61%	Tewksbury, Lunenburg
<i>Culiseta melanura</i>	+71.43%	+172.7%	Wilmington

<i>Ochlerotatus canadensis</i>	-58.33%	+50.00%	Millbury
<i>Culex</i> Species	-33.76%	+70.10%	Auburn, Tewksbury
All Species	-9.260%	+77.35%	Tewksbury, Ayer, Auburn

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 1-Sep-09

Central Mass. Mosquito Control Project

Weekly Report- 8/16/09-8/22/09

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	87	225	193	140	627	2381
Total Specimens	641	10379	1299	761	11565	29623
No. Pools WNV +	0	0	0	0	2*	2*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 79.41°F with a recorded high temperature of 92.9°F and a recorded low temperature of only 66.6°F. For this week there was only .75 inches of rain observed, with August comprising 1.65 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 7.72°F warmer on average, and rained about 0.13 inches less. The total statewide rainfall for the month of July was 7.80" (CMMCP/Northborough 12.1"). Requests for spraying totaled 803 this week, 364% above the 6 year average of 220 for EPI week #33. This is a 13.5% increase from EPI week #32. For the year we have received 81.1% more requests; 12,127 requests to date compared to the 6 year average of 6,696.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-79.71%	-74.55%	Westborough
<i>Coquillettidia perturbans</i>	-63.09%	-36.24%	Hopkinton, Westborough
<i>Culiseta melanura</i>	-20.45%	-61.54%	Westborough, Hopkinton
<i>Ochlerotatus canadensis</i>	+50.00%	+111.7%	Westborough
<i>Culex</i> Species	-30.98%	+10.74%	Hopedale
All Species	-45.91%	-8.120%	Westborough, Hopedale, Hopkinton

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 25-Aug-09

Central Mass. Mosquito Control Project

Weekly Report- 8/9/09-8/15/09

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	77	202	173	124	565	2087
Total Specimens	366	9937	1237	555	10280	26350
No. Pools WNV +	0	0	0	0	2*	2*
No. Pools EEE +	0	0	0	0	0	0

*Pool of WNV+ *Culex* Species collected in Westborough on 8/4/09

*Pool of WNV+ *Culex* Species collected in Westford on 8/6/09

Weather Summary (Northborough, MA): The weather for this particular week averaged 71.69°F with a recorded high temperature of 91.40°F and a recorded low temperature of only 53.80°F. For this week there was only .88 inches of rain observed, with August comprising .90 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 0.88°F warmer on average, and rained about 0.87 inches more. The total statewide rainfall for the month of July was 7.80" (CMMCP/Northborough 12.1"). Requests for spraying totaled 707 this week, 322% above the 6 year average of 220 for EPI week #32. This is a 21% decrease from EPI week #31. For the year we have received 81.6% more requests; 11,324 requests to date compared to the 6 year average of 6,235.

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+21.05%	-13.75%	Leominster
<i>Coquillettidia perturbans</i>	+64.88%	+17.82%	Leominster
<i>Culiseta melanura</i>	+29.41%	+238.5%	Westborough
<i>Ochlerotatus canadensis</i>	-64.18%	+2300%	Uxbridge
<i>Culex</i> Species	+34.13%	+334.1%	Auburn, Leominster
All Species	+50.34%	+173.9%	Ayer, Leominster

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 19-Aug-09

Central Mass. Mosquito Control Project

Weekly Report- 8/2/09-8/8/09

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	64	179	156	107	487	1766
Total Specimens	297	9321	1190	528	8388	22630
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 70.81°F with a recorded high temperature of 87.00°F and a recorded low temperature of only 50.70°F. For this week there was only .01 inches of rain observed, with August comprising .02 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 4.03°F cooler on average, and rained about 1.63 inches less. The total rainfall for the month of July was 12.1" (CMMCP/Northborough). Requests for spraying totaled 857 this week, 302% above the 6 year average of

283 for EPI week #31. This is a 3% decrease from EPI week #30. For the year we have received 76.5% more requests; 10,617 requests to date compared to the 6 year average of 6,015.

No arboviruses have been confirmed in our service area as of this date.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+35.71%	+1800%	Southborough
<i>Coquilleltidia perturbans</i>	-52.18%	-45.55%	Boxborough, Marlborough
<i>Culiseta melanura</i>	-12.82%	+17.24%	Holliston, Southborough
<i>Ochlerotatus canadensis</i>	+123.3%	+1240%	Southborough, Hopkinton
<i>Culex</i> Species	+7.050%	+128.1%	Hudson, Marlborough
All Species	-13.56%	+47.46%	Hudson, Marlborough

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 11-Aug-09

Central Mass. Mosquito Control Project Weekly Report- 7/26/09-8/1/09 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	52	160	139	92	423	1485
Total Specimens	238	8873	1153	459	6930	19884
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 74.84°F with a recorded high temperature of 86.7°F and a recorded low temperature of only 62.0°F. For this week there was also a total of 1.64 inches of rain observed, with August only accounting for .01 inches (CMMCP/Northborough). Compared to the previous week, it was approximately 6.7°F warmer on average, and rained about 1.5 inches less. The total rainfall for the month of July was 12.1" (CMMCP/Northborough). Requests for spraying totaled 882 this week, 308% above the 6 year average of 286 for EPI week #30. This is a 16% decrease from EPI week #29. For the year we have received 70% more requests; 9,760 requests to date compared to the 6 year average of 5,732.

No arboviruses have been confirmed in our service area as of this date.

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-50.59%	+50.00%	Dracut, Billerica
<i>Coquilleltidia perturbans</i>	-54.99%	-35.16%	Webster, Dracut
<i>Culiseta melanura</i>	-73.29%	+44.44%	Webster
<i>Ochlerotatus canadensis</i>	+15.38%	+57.89%	Webster
<i>Culex</i> Species	+13.21%	+36.60%	Auburn, Clinton
All Species	-34.04%	+0.250%	Webster, Auburn

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

Central Mass. Mosquito Control Project
Weekly Report- 7/19/09-7/25/09
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	38	139	124	81	367	1247
Total Specimens	196	8091	1111	425	5703	17173
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 68.14°F with a recorded high temperature of 84.9°F and a recorded low temperature of only 57.0°F. For this week there was also a total of 3.14 inches of rain observed, with July comprising 10.47 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 1.37°F cooler on average, and rained about 2.02 inches more. The total statewide rainfall for the month of June was 5.84" (CMMCP/Northborough 4.2"). Requests for spraying totaled 1029 this week, 265% above the 6 year average of 388 for EPI week #29. This is a 8% increase from EPI week #28. For the year we have received 63% more requests; 8,878 requests to date compared to the 6 year average of 5,447.

No arboviruses have been confirmed in our service area as of this date.

CMMCP Mosquito Summary-
Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+30.77%	+372.2%	Hudson, Hopkinton
<i>Coquillettidia perturbans</i>	+31.29%	+8.930%	Westborough
<i>Culiseta melanura</i>	+170.4%	+484.0%	Boxborough, Holliston
<i>Ochlerotatus canadensis</i>	-46.94%	+271.4%	Boxborough
<i>Culex</i> Species	+4.390%	+18.18%	Northborough, Westborough
All Species	+30.48%	+25.18%	Westborough, Boxborough

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 29-Jul-09

Central Mass. Mosquito Control Project
Weekly Report- 7/12/09-7/18/09
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	28	122	106	73	315	1026
Total Specimens	111	6358	965	399	4832	13864
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 69.51°F with a recorded high temperature of 87.0°F and a recorded low temperature of only 52.5°F. For this week there was also a total of 1.12 inches of rain observed, with July comprising 7.33 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 5.04°F warmer on average, and rained about 2.29 inches less. The total statewide rainfall for the month of June was 5.84" (CMMCP/Northborough 4.2"). Requests for spraying totaled 949 this week, 208% above the 6 year average of 456 for EPI week #28. This is a 13% decrease from EPI week #27. For the year we have received 55.1% more requests; 7,849 requests to date compared to the 6 year average of 5,058.

No arboviruses have been confirmed in our service area as of this date.

**CMMCP Mosquito Summary-
Target Species**

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+400.0%	+364.3%	Billerica, Leominster
<i>Coquilleltidia perturbans</i>	+19.35%	-46.99%	Leominster
<i>Culiseta melanura</i>	-49.06%	+20.00%	Westford, Millbury
<i>Ochlerotatus canadensis</i>	+75.00%	+32.43%	Billerica, Fitchburg
<i>Culex</i> Species	-12.12%	+35.80%	Auburn
All Species	+8.640%	+50.13%	Leominster

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 21-Jul-09

**Central Mass. Mosquito Control Project
Weekly Report- 7/5/09-7/11/09
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	18	103	92	62	256	827
Total Specimens	45	5038	905	349	3356	10601
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 64.47°F with a recorded high temperature of 83.0°F and a recorded low temperature of only 48.6°F. For this week there was also a total of 3.41 inches of rain observed, with July comprising 6.21 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately 1.23°F cooler on average, and rained about .34 inches more. The total statewide rainfall for the month of June was 5.84" (CMMCP/Northborough 4.2"). Requests for spraying totaled 1,071 this week, 263% above the 6 year average of 406 for EPI week #27. This is a 19% increase from EPI week #26. For the year we have received 49.9% more requests; 6,900 requests to date compared to the 6 year average of 4,602.

No arboviruses have been confirmed in our service area as of this date.

**CMMCP Mosquito Summary-
Target Species**

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	+44.44%	+ ∞	Southborough
<i>Coquilleltidia perturbans</i>	-61.33%	+78.10%	Boxborough, Southborough

<i>Culiseta melanura</i>	-10.17%	+341.7%	Boxborough, Westborough
<i>Ochlerotatus canadensis</i>	-54.10%	-3.450%	Hopkinton
<i>Culex</i> Species	+89.17%	+355.2%	Northborough, Westborough
All Species	-38.87%	+144.1%	Boxborough, Southborough

*2008 EPI Week 27 had no observed *Aedes vexans*

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 13-Jul-09

Central Mass. Mosquito Control Project

Weekly Report- 6/28/09-7/4/09

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	12	83	76	54	205	658
Total Specimens	32	3932	797	321	2481	8290
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 65.70°F with a recorded high temperature of 81.1°F and a recorded low temperature of only 57.8°F. For this week there was also a total of 3.07 inches of rain observed, with July comprising 2.8 inches to date (CMMCP/Northborough). Compared to the previous week, it was approximately .01°F cooler on average, and rained about 2.1 inches more. The total statewide rainfall for the month of June was 5.84" (CMMCP/Northborough 4.2"). Requests for spraying totaled 898 this week, 58% above the 6 year average of 568 for EPI week #26. For the year we have received 38.9% more requests; 5,829 requests to date compared to the 6 year average of 4,196.

No arboviruses have been confirmed in our service area as of this date.

CMMCP Mosquito Summary-

Target Species Δ From Δ From Predominant Trap Site(s)
 Last Week Last Year

<i>Aedes vexans</i>	+800.0%	+900.0%	Lancaster
<i>Coquillettidia perturbans</i>	+497.1%	+225.7%	Leominster, Tewksbury
<i>Culiseta melanura</i>	-27.61%	+372.0%	Wilmington
<i>Ochlerotatus canadensis</i>	+1.670%	+79.41%	Wilmington, Fitchburg
<i>Culex</i> Species	+148.1%	+48.13%	Chelmsford, Tewksbury
All Species	+258.6%	+170.1%	Tewksbury, Leominster

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 7-Jul-09

Central Mass. Mosquito Control Project

Weekly Report- 6/21/09-6/27/09

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	9	61	63	43	163	526
Total Specimens	23	1071	679	260	2030	4703
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 65.71°F with a recorded high temperature of 84.5°F and a recorded low temperature of 59.8°F. For this week there was also a total of .97 inches of rain observed, raising the total for June to 3.93 inches (CMMCP/Northborough). Compared to the previous week, it was approximately 3.88°F cooler on average, and rained about .61 inches less. The total statewide rainfall for the month of May was 4.04" (CMMCP/Northborough 2.71"). Requests for spraying totaled 767 this week, just slightly above the 6 year average of 719 for EPI week #25. For the year we have received 35.9% more requests; 4,931 requests to date compared to the 6 year average of 3,628.

No arboviruses have been confirmed in our service area as of this date.

CMMCP Mosquito Summary-

Target Species Δ From Δ From Predominant Trap Site(s)
Last Week Last Year

<i>Aedes vexans</i>	0.00%	+100.00%	Westford
<i>Coquilleltidia perturbans</i>	+0.630%	+27.73%	Boxborough
<i>Culiseta melanura</i>	+39.32%	+640.9%	Boxborough, Hopkinton
<i>Ochlerotatus canadensis</i>	+62.16%	-42.86%	Hopkinton, Westford
<i>Culex</i> Species	-33.88%	-53.22%	Northbridge
All Species	+1.550%	+5.930%	Boxborough

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 29-Jun-09

Central Mass. Mosquito Control Project Weekly Report- 6/14/09-6/20/09 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	8	40	53	29	121	382
Total Specimens	22	587	515	199	1715	3516
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 61.83°F with a recorded high temperature of 79.4°F and a recorded low temperature of only 43.5°F. For this week there was also a total of 1.58 inches of rain observed, raising the total for June to 2.96 inches (CMMCP/Northborough). Compared to the previous week, it was approximately .78°F cooler on average, and rained about .20 inches more. The total statewide rainfall for the month of May was 4.04" (CMMCP/Northborough 2.71").

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	0.00%	-85.71%	Westford
<i>Coquilleltidia perturbans</i>	+434.8%	+244.9%	Lunenburg, Wilmington
<i>Culiseta melanura</i>	-61.26%	+254.6%	Westford
<i>Ochlerotatus canadensis</i>	-22.92%	-22.92%	Westford
<i>Culex</i> Species	+110.4%	+38.29%	Auburn, Shrewsbury
All Species	+55.22%	+96.54%	Lunenburg, Auburn, Wilmington

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

Submitted by **Frank Cornine**, CMMCP Field Biologist – 22-Jun-09

Central Mass. Mosquito Control Project

Weekly Report- 6/7/09-6/13/09

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	7	22	35	18	79	242
Total Specimens	21	111	398	162	1170	2215
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 62.61°F with a recorded high temperature of 82.6°F and a recorded low temperature of only 52.0°F. For this week there was also a total of 1.38 inches of rain observed, which accounts for all the precipitation this month. Compared to the previous week, it was approximately .74°F warmer on average, and rained about 1.32 inches more. The total statewide rainfall for the month of May was 4.04" (CMMCP/Northborough 2.71").

CMMCP Mosquito Summary-

Target Species	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	-95.00%	+100.0%	Hopkinton
<i>Coquilleltidia perturbans</i>	+304.6%	+888.9%	Natick
<i>Culiseta melanura</i>	+214.6%	+542.6%	Holliston
<i>Ochlerotatus canadensis</i>	-57.89%	-41.46%	Hopkinton
<i>Culex</i> Species	-71.53%	-61.02%	Hopedale
All Species	-31.54%	-17.15%	Holliston

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

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

Central Mass. Mosquito Control Project

Weekly Report- 5/31/09-6/6/09

MMWR Epi Week #22

Cumulative Surveillance Summary - Mosquito

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	8	17	10	39	125
Total Specimens	20	22	96	114	909	1422
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 61.87°F with a recorded high temperature of 80.3°F and a recorded low temperature of only 39.6°F. For this week there was also a total of 0.06 inches of rain observed, which occurred 5/31. Compared to the previous week, it was approximately 3.5°F warmer on average, and rained about .85 inches less. The total statewide rainfall for the month of May was 4.04" (CMMCP/Northborough 2.71").

CMMCP Mosquito Summary- Target Species

	Δ From Last Week	Δ From Last Year	Predominant Trap Site(s)
<i>Aedes vexans</i>	N/A	N/A	Northbridge
<i>Coquilleltidia perturbans</i>	N/A	N/A	Westford
<i>Culiseta melanura</i>	N/A	N/A	Millbury, Westford
<i>Ochlerotatus canadensis</i>	N/A	N/A	Blackstone, Westford
<i>Culex</i> Species	N/A	N/A	Auburn, Stow
All Species	N/A	N/A	Auburn, Stow

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

*2008 surveillance began EPI week 23

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

PRIOR YEAR'S REPORTS:

[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.

