

Mosquito Trapping Statistics for 2014 Season

Table showing mosquito species collected and tested for West Nile virus (WNV) and Eastern Equine Encephalitis virus (EEE)

Species	Collected	% Collected	WNV Tested	%WNV Tested	EEE Tested	%EEE Tested
Coquillettidia perturbans	22222	33.00%	13748	32.97%	13748	32.97%
Aedes vexans	9934	14.75%	4765	11.43%	4765	11.43%
Culex pipiens-restuans	6126	9.10%	6101	14.63%	6101	14.63%
Ochlerotatus canadensis	4691	6.97%	4491	10.77%	4491	10.77%
Ochlerotatus trivittatus	3988	5.92%	3621	8.68%	3621	8.68%
Culiseta melanura	3953	5.87%	3817	9.15%	3817	9.15%
Aedes cinereus	2692	4.00%	2449	5.87%	2449	5.87%
Anopheles quadrimaculatus	2145	3.19%	0	0.00%	0	0.00%
Anopheles punctipennis	1554	2.31%	0	0.00%	0	0.00%
Culex territans	1452	2.16%	0	0.00%	0	0.00%
Anopheles walkeri	1322	1.96%	0	0.00%	0	0.00%
Ochlerotatus sticticus	1320	1.96%	0	0.00%	0	0.00%
Ochlerotatus stimulans	1241	1.84%	3	0.01%	3	0.01%
Ochlerotatus japonicus	1198	1.78%	1136	2.72%	1136	2.72%
Culiseta morsitans	959	1.42%	831	1.99%	831	1.99%
Ochlerotatus triseriatus	843	1.25%	12	0.03%	12	0.03%
Culex salinarius	668	0.99%	666	1.60%	666	1.60%
Uranotaenia sapphirina	326	0.48%	24	0.06%	24	0.06%
Psorophora ferox	172	0.26%	0	0.00%	0	0.00%
Ochlerotatus provocans	112	0.17%	0	0.00%	0	0.00%
Ochlerotatus excrucians	97	0.14%	0	0.00%	0	0.00%
Ochlerotatus fitchii	82	0.12%	0	0.00%	0	0.00%
Ochlerotatus punctor	57	0.08%	0	0.00%	0	0.00%
Ochlerotatus intrudens	55	0.08%	0	0.00%	0	0.00%
Culex pipiens	31	0.05%	28	0.07%	28	0.07%
Anopheles earlei	31	0.05%	0	0.00%	0	0.00%
Anopheles species	21	0.03%	0	0.00%	0	0.00%
Ochlerotatus communis	21	0.03%	0	0.00%	0	0.00%
Culex restuans	7	0.01%	6	0.01%	6	0.01%
Ochlerotatus atropalpus	5	0.01%	0	0.00%	0	0.00%
Ochlerotatus aurifer	5	0.01%	0	0.00%	0	0.00%
Culex species	2	0.00%	0	0.00%	0	0.00%
Culiseta minnesotae	1	0.00%	1	0.00%	1	0.00%
Psorophora ciliata	1	0.00%	0	0.00%	0	0.00%
Culiseta species	1	0.00%	1	0.00%	1	0.00%
Totals	67335	100.00%	41700	100.00%	41700	100.00%

Mosquito Trapping Data

- Trapping season began 6/2/2014 and ended on 10/9/2014
- Number of trap locations – 77
- Number of mosquitoes collected – 67,335
- 31 species of mosquitoes collected (out of 45 on state list)
- Number of mosquitoes tested for arbovirus – 41,700
- 12 species of mosquitoes tested for arboviruses
- Number of CDC trap locations – 67
- Number of CDC Light trap nights– 1736
- Number of mosquitoes collected in CDC Light Traps – 49,366
- Number of Resting Box trap locations – 51
- Number of Resting Box trap nights (10 boxes each site) – 1129
- Number of mosquitoes collected in Resting Box traps – 10,774
- Number of Gravid trap locations – 10
- Number of Gravid trap nights – 380
- Number of mosquitoes collected in Gravid traps – 7,195

Findings

Arbovirus Testing Results listed by CDC Week Number

CDC Week	Beginning Sunday	# Batches	Negative	EEE+	WNV+	Cumulative # Batches
23	1-Jun	41	41			41
24	8-Jun	83	83			124
25	15-Jun	111	110	1		235
26	22-Jun	231	231			466
27	29-Jun	63	63			529
28	6-Jul	202	202			731
29	13-Jul	234	234			965
30	20-Jul	210	210			1175
31	27-Jul	252	251		1	1427
32	3-Aug	286	286			1713
33	10-Aug	306	306			2019
34	17-Aug	286	278	2	6	2305
35	24-Aug	242	242			2547
36	31-Aug	208	206	1	1	2755
37	7-Sep	165	164	1		2920

38	14-Sep	110	110			3030
39	21-Sep	90	89	1		3120
40	28-Sep	93	93			3213
41	5-Oct	32	30	2		3245
42	12-Oct	0				3245
43	19-Oct	0				3245
Totals		3245	3229	8	8	16

Eastern Equine Encephalitis Virus

- Number of mosquitoes tested for EEE – 41,700
- Total number of mosquito pool samples tested – 3,245
- Number of species tested for EEE -
- Total Number of EEE positive mosquito pools – 8
- Positive EEE mosquito pools were found in 5 towns
- The town of Whiting had positive mosquito pools on 8/19/14 (2 samples), 9/9/2014, and 10/8/2014
- The positive EEE finding in Grand Isle is significant in that it is a very early report for EEE activity in New England
- *Culiseta melanura* was the primary vector species. There were two pools testing positive with secondary vector species – *Ochlerotatus canadensis* and *Coquillettidia perturbans*.
- The first EEE positive mosquito pool sample was collected on 6/17/2014
- The last two EEE positive mosquito pool samples were collected on 10/8/2014

Table showing occurrences of EEE positive mosquitoes

CDC Week	Town	Date	Species	Arbovirus
25	Grand Isle	6/17/2014	Ochlerotatus canadensis	EEE
34	Whiting	8/19/2014	Culiseta melanura	EEE
34	Whiting	8/19/2014	Culiseta morsitans	EEE
36	Colchester	9/3/2014	Culiseta melanura	EEE
37	Whiting	9/9/2014	Culiseta melanura	EEE
39	Swanton	9/26/2014	Culiseta melanura	EEE
41	Cornwall	10/8/2014	Culiseta melanura	EEE
41	Whiting	10/8/2014	Culiseta morsitans	EEE

West Nile Virus

- Number of mosquitoes tested for WNV – 41,700
- Total number of mosquito pool samples tested – 3,245
- Total Number of WNV Positive Mosquito Pools – 8
- Positive WNV mosquito pools were found in 6 towns
- WNV was found in a *Culex restuans/piapiens* mix, *Culex salinarius*, *Coquillettidia perturbans*, and *Ochlerotatus japonicus*.
- The first WNV positive mosquito pool sample was collected on 7/29/2014
- The last WNV positive mosquito pool sample was collected on 9/2/2014

Table showing occurrences of WNV positive mosquitoes

CDC Week	Town	Date	Species	Arbovirus
31	St. Albans City	7/29/2014	<i>Culex restuans/piapiens</i> mix	WNV
34	Newbury	8/18/2014	<i>Coquillettidia perturbans</i>	WNV
34	Brattleboro	8/21/2014	<i>Culex restuans/piapiens</i> mix	WNV
34	Putney	8/21/2014	<i>Culex restuans/piapiens</i> mix	WNV
34	Rockingham	8/21/2014	<i>Culex restuans/piapiens</i> mix	WNV
34	Rockingham	8/21/2014	<i>Ochlerotatus japonicus</i>	WNV
34	Rockingham	8/21/2014	<i>Culex salinarius</i>	WNV
36	Springfield	9/2/2014	<i>Culex restuans/piapiens</i> mix	WNV

Table showing 54 towns where traps trapping occurred and number of weeks surveyed in that town. Vermont has 251 towns and 4 gores.

Town	County	Weeks Trapped
Alburg	Grand Isle	19
Benson	Rutland	15
Brandon	Rutland	18
Brattleboro	Windham	11
Brookfield	Orange	13
Castleton	Rutland	18
Colchester	Chittenden	17
Cornwall	Addison	18
Danby	Rutland	11
Danville	Caledonia	5
Dummerston	Windham	9
East Montpelier	Washington	9
Eden	Lamoille	12
Elmore	Lamoille	6

Fair Haven	Rutland	17
Fairfax	Franklin	15
Grand Isle	Grand Isle	19
Hartford	Windsor	14
Highgate	Franklin	8
Hyde Park	Lamoille	12
Jericho	Chittenden	11
Leicester	Addison	17
Lowell	Orleans	10
Lyndon	Caledonia	6
Marshfield	Washington	11
Milton	Chittenden	19
Morrisville	Lamoille	10
New Haven	Addison	17
Newbury	Orange	12
Newport City	Orleans	7
Orwell	Addison	13
Pittsford	Rutland	15
Proctor	Rutland	17
Putney	Windham	12
Randolph	Orange	14
Rockingham	Windham	12
Rutland	Rutland	17
Sheldon	Franklin	12
Springfield	Windsor	13
St. Albans City	Franklin	11
Stowe	Lamoille	6
Sudbury	Rutland	17
Sutton	Caledonia	13
Swanton	Franklin	19
Vernon	Windham	10
Waitsfield	Washington	6
Wallingford	Rutland	12
Weathersfield	Windsor	14
West Windsor	Windsor	12
Westminster	Windham	8
Whiting	Addison	19
Williston	Chittenden	13
Woodbury	Washington	5
Woodstock	Windsor	8

Table showing 12 counties where traps trapping occurred and number of weeks surveyed in that town. Two missing counties were Bennington and Essex.

County	Weeks Trapped
Addison	19
Caledonia	13
Chittenden	19
Franklin	19
Grand Isle	19
Lamoille	15
Orange	14
Orleans	10
Rutland	19
Washington	16
Windham	12
Windsor	15