

Mosquito Trapping Statistics for 2015 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
<i>Culex pipiens-restuans</i>	60084	41.09%	47548	53.15%	47548	53.15%
<i>Coquillettidia perturbans</i>	28028	19.17%	18348	20.51%	18348	20.51%
<i>Ochlerotatus canadensis</i>	7200	4.92%	4850	5.42%	4850	5.42%
<i>Anopheles quadrimaculatus</i>	7072	4.84%	1875	2.10%	1875	2.10%
<i>Anopheles punctipennis</i>	6468	4.42%	1632	1.82%	1632	1.82%
<i>Ochlerotatus sticticus</i>	5854	4.00%	0	0.00%	0	0.00%
<i>Anopheles walkeri</i>	5414	3.70%	0	0.00%	0	0.00%
<i>Ochlerotatus trivittatus</i>	4680	3.20%	3549	3.97%	3549	3.97%
<i>Culiseta melanura</i>	3517	2.40%	3503	3.92%	3503	3.92%
<i>Ochlerotatus japonicus</i>	3049	2.08%	2774	3.10%	2774	3.10%
<i>Culex territans</i>	2822	1.93%	0	0.00%	0	0.00%
<i>Aedes cinereus</i>	2789	1.91%	1882	2.10%	1882	2.10%
<i>Aedes vexans</i>	2666	1.82%	1942	2.17%	1942	2.17%
<i>Ochlerotatus stimulans</i>	2249	1.54%	0	0.00%	0	0.00%
<i>Culiseta morsitans</i>	1571	1.07%	1562	1.75%	1562	1.75%
<i>Ochlerotatus provocans</i>	1333	0.91%	0	0.00%	0	0.00%
<i>Ochlerotatus triseriatus</i>	519	0.35%	0	0.00%	0	0.00%
<i>Psorophora ferox</i>	272	0.19%	0	0.00%	0	0.00%
<i>Ochlerotatus communis</i>	173	0.12%	0	0.00%	0	0.00%
<i>Anopheles earlei</i>	127	0.09%	0	0.00%	0	0.00%
<i>Ochlerotatus abserratus</i>	90	0.06%	0	0.00%	0	0.00%
<i>Ochlerotatus aurifer</i>	72	0.05%	0	0.00%	0	0.00%
<i>Ochlerotatus excrucians</i>	71	0.05%	0	0.00%	0	0.00%
<i>Uranotaenia sapphirina</i>	58	0.04%	0	0.00%	0	0.00%
<i>Ochlerotatus intrudens</i>	26	0.02%	0	0.00%	0	0.00%
<i>Ochlerotatus fitchii</i>	22	0.02%	0	0.00%	0	0.00%
<i>Culex salinarius</i>	11	0.01%	0	0.00%	0	0.00%
<i>Ochlerotatus punctor</i>	1	0.00%	0	0.00%	0	0.00%
Totals	146238	100.00%	89465	100.00%	89465	100.00%

Mosquito Trapping Data

- Trapping season began 6/4/2015 and ended on 10/16/2015
- Number of trap locations – 91
- Number of mosquitoes collected – 146,238
- 28 species of mosquitoes collected (out of 45 on state list)

- Number of mosquitoes tested for arbovirus – 89,465
- 11 species of mosquitoes tested for arboviruses

- Number of CDC trap locations – 76
- Number of CDC Light trap nights – 1288
- Number of mosquitoes collected in CDC Light Traps – 63,889
 CDC traps used pellet dry ice. The light bulb was removed.

- Number of Resting Box trap locations – 76
- Number of Resting Box trap nights (10 boxes each site) – 1316
- Number of mosquitoes collected in Resting Box traps – 21,556

- Number of Gravid trap locations – 15
- Number of Gravid trap nights – 1380
- Number of mosquitoes collected in Gravid traps – 60,793

Table showing Vermont’s 14 counties where trapping occurred and number of weeks surveyed in that town.

County	Weeks Trapped
Addison	20
Bennington	19
Caledonia	20
Chittenden	20
Essex	20
Franklin	19
Grand Isle	19
Lamoille	19
Orange	15
Orleans	20
Rutland	20
Washington	14
Windham	19
Windsor	19

Table showing 73 towns where traps trapping occurred and number of weeks surveyed in that town. Vermont has 251 towns and 4 gores.

Town	County	Weeks Trapped
Addison	Addison	17
Alburg	Grand Isle	19
Barton	Orleans	18
Bennington	Bennington	19
Benson	Rutland	18
Berkshire	Franklin	17
Brandon	Rutland	20
Brattleboro	Windham	19
Brighton	Essex	15
Brookfield	Orange	15
Burke	Caledonia	16
Burlington	Chittenden	18
Cambridge	Lamoille	14
Castleton	Rutland	19
Charlotte	Chittenden	18
Colchester	Chittenden	19
Concord	Essex	17
Cornwall	Addison	20
Danby	Rutland	17
Derby	Orleans	19
Eden	Lamoille	15
Enosburg	Franklin	19
Fair Haven	Rutland	19
Fairfax	Franklin	18
Ferdinand	Essex	16
Ferrisburgh	Addison	18
Grand Isle	Grand Isle	19
Groton	Caledonia	6
Hartford	Windsor	14
Highgate	Franklin	18
Hyde Park	Lamoille	17
Jay	Orleans	13
Killington	Rutland	14
Leicester	Addison	20
Londonderry	Windham	10
Lowell	Orleans	16
Lunenburg	Essex	14

Town	County	Weeks Trapped
Manchester	Bennington	18
Marshfield	Washington	11
Milton	Chittenden	19
Montpelier	Washington	13
Morrisville	Lamoille	19
New Haven	Addison	20
Newbury	Orange	15
Newport City	Orleans	19
Pittsford	Rutland	19
Pownal	Bennington	18
Proctor	Rutland	17
Putney	Windham	19
Randolph	Orange	13
Richford	Franklin	12
Rockingham	Windham	19
Royalton	Windsor	12
Rutland	Rutland	19
Shaftsbury	Bennington	18
Shrewsbury	Rutland	12
Springfield	Windsor	18
St. Albans City	Franklin	17
Stowe	Lamoille	19
Stratton	Windham	12
Sudbury	Rutland	20
Sunderland	Bennington	19
Sutton	Caledonia	13
Swanton	Franklin	19
Thetford	Orange	14
Vergennes	Addison	15
Vernon	Windham	19
Victory	Essex	18
Weathersfield	Windsor	18
Weston	Windsor	10
Whiting	Addison	20
Whitingham	Windham	19
Williston	Chittenden	19

Findings

Arbovirus Testing Results listed by CDC Week Number

CDC Week	Beginning Sunday	# Batches	EEE+	WNV+	Cumulative # Batches
22	31-May	38			38
23	7-Jun	119			157
24	14-Jun	183			340
25	21-Jun	153			493
26	28-Jun	208			701
27	5-Jul	302			1003
28	12-Jul	315			1318
29	19-Jul	254		3	1572
30	26-Jul	324		3	1896
31	2-Aug	319			2215
32	9-Aug	298		6	2513
33	16-Aug	237		7	2750
34	23-Aug	202		16	2952
35	30-Aug	201		22	3153
36	6-Sep	170		19	3323
37	13-Sep	147	1	9	3470
38	20-Sep	113		10	3583
39	27-Sep	107		2	3690
40	4-Oct	106			3796
41	11-Oct	90			3886
	Totals	3886	1	97	

Eastern Equine Encephalitis Virus

- Number of mosquitoes tested for EEE – 89,465
- Total number of mosquito pool samples tested – 3987
- Number of species tested for EEE - 11
- A single positive EEE mosquito pools was found the town of Swanton on 9/14/2015, (week 37) consisting of a batch of *Culiseta melanura* mosquitoes

West Nile Virus

- Number of mosquitoes tested for WNV – 89,465
- Total number of mosquito pool samples tested – 3987
- Number of species tested for WNV - 11
- Total Number of WNV Positive Mosquito Pools – 97

- Positive WNV mosquito pools were found in 20 towns
- WNV was found in the following species: *Culex restuans/pipiens* mix, *Ochlerotatus japonicus*, *Ochlerotatus trivittatus*, *Culiseta melanura*, and *Culiseta morsitans*.
- The first WNV positive mosquito pool sample was collected on 7/22/2015
- The last WNV positive mosquito pool sample was collected on 9/29/2015
- Several towns had sustained WNV activity for several weeks

Table showing occurrences of WNV positive mosquitoes

CDC Week	Town	Date	Species	Arboviruses
29	Springfield	7/22/2015	Ochlerotatus japonicus	WNV
29	Springfield	7/22/2015	Culex restuans/pipiens mix	WNV
29	Springfield	7/22/2015	Culex restuans/pipiens mix	WNV
30	Hartford	7/30/2015	Culex restuans/pipiens mix	WNV
30	Montpelier	7/31/2015	Culex restuans/pipiens mix	WNV
30	Putney	7/29/2015	Culex restuans/pipiens mix	WNV
32	Vergennes	8/13/2015	Culex restuans/pipiens mix	WNV
32	Brandon	8/13/2015	Ochlerotatus trivittatus	WNV
32	Rutland	8/11/2015	Culex restuans/pipiens mix	WNV
32	Rutland	8/11/2015	Culex restuans/pipiens mix	WNV
32	Springfield	8/12/2015	Culex restuans/pipiens mix	WNV
32	Springfield	8/12/2015	Culex restuans/pipiens mix	WNV
33	St. Albans City	8/18/2015	Culex restuans/pipiens mix	WNV
33	St. Albans City	8/18/2015	Culex restuans/pipiens mix	WNV
33	Vergennes	8/20/2015	Culex restuans/pipiens mix	WNV
33	Vergennes	8/20/2015	Culex restuans/pipiens mix	WNV
33	Vergennes	8/20/2015	Culex restuans/pipiens mix	WNV
33	Vergennes	8/20/2015	Culex restuans/pipiens mix	WNV
33	Vergennes	8/20/2015	Culex restuans/pipiens mix	WNV
34	St. Albans City	8/25/2015	Culex restuans/pipiens mix	WNV
34	St. Albans City	8/25/2015	Culex restuans/pipiens mix	WNV
34	Vergennes	8/29/2015	Culex restuans/pipiens mix	WNV
34	Vergennes	8/29/2015	Culex restuans/pipiens mix	WNV
34	Burlington	8/29/2015	Culex restuans/pipiens mix	WNV
34	Burlington	8/29/2015	Culex restuans/pipiens mix	WNV
34	Burlington	8/29/2015	Culex restuans/pipiens mix	WNV
34	Stowe	8/27/2015	Culex restuans/pipiens mix	WNV
34	Stowe	8/27/2015	Culex restuans/pipiens mix	WNV
34	Stowe	8/27/2015	Culex restuans/pipiens mix	WNV
34	Newport City	8/25/2015	Culex restuans/pipiens mix	WNV
34	Newport City	8/25/2015	Culex restuans/pipiens mix	WNV

34	Rutland	8/27/2015	Culex restuans/piapiens mix	WNV
34	Springfield	8/26/2015	Culex restuans/piapiens mix	WNV
34	Springfield	8/26/2015	Culex restuans/piapiens mix	WNV
34	Springfield	8/26/2015	Culex restuans/piapiens mix	WNV
35	Whiting	9/1/2015	Culiseta melanura	WNV
35	St. Albans City	9/1/2015	Culex restuans/piapiens mix	WNV
35	Derby	9/1/2015	Culiseta melanura	WNV
35	Newport City	9/2/2015	Culex restuans/piapiens mix	WNV
35	Newport City	9/2/2015	Culex restuans/piapiens mix	WNV
35	Hartford	9/2/2015	Culex restuans/piapiens mix	WNV
35	Vergennes	9/4/2015	Culex restuans/piapiens mix	WNV
35	Vergennes	9/4/2015	Culex restuans/piapiens mix	WNV
35	Vergennes	9/4/2015	Culex restuans/piapiens mix	WNV
35	Vergennes	9/4/2015	Culex restuans/piapiens mix	WNV
35	Vergennes	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Burlington	9/4/2015	Culex restuans/piapiens mix	WNV
36	Derby	9/8/2015	Culiseta melanura	WNV
36	Derby	9/8/2015	Culiseta melanura	WNV
36	Hartford	9/8/2015	Culex restuans/piapiens mix	WNV
35	Bennington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Bennington	9/4/2015	Culex restuans/piapiens mix	WNV
35	Vernon	9/2/2015	Ochlerotatus canadensis	WNV
36	Charlotte	9/11/2015	Culiseta melanura	WNV
36	St. Albans City	9/9/2015	Culex restuans/piapiens mix	WNV
36	St. Albans City	9/9/2015	Ochlerotatus japonicus	WNV
36	St. Albans City	9/9/2015	Culex restuans/piapiens mix	WNV
36	St. Albans City	9/9/2015	Ochlerotatus japonicus	WNV
36	Cambridge	9/10/2015	Ochlerotatus trivittatus	WNV
36	Barton	9/8/2015	Ochlerotatus trivittatus	WNV
36	Vergennes	9/11/2015	Culex restuans/piapiens mix	WNV
36	Burlington	9/11/2015	Culex restuans/piapiens mix	WNV
36	Montpelier	9/11/2015	Culex restuans/piapiens mix	WNV
36	Montpelier	9/11/2015	Culex restuans/piapiens mix	WNV
36	Montpelier	9/11/2015	Ochlerotatus japonicus	WNV

36	Montpelier	9/11/2015	Culex restuans/piapiens mix	WNV
36	Brattleboro	9/9/2015	Culex restuans/piapiens mix	WNV
36	Rockingham	9/8/2015	Culex restuans/piapiens mix	WNV
36	Springfield	9/9/2015	Culex restuans/piapiens mix	WNV
37	St. Albans City	9/15/2015	Culex restuans/piapiens mix	WNV
37	St. Albans City	9/15/2015	Culex restuans/piapiens mix	WNV
37	St. Albans City	9/15/2015	Ochlerotatus japonicus	WNV
37	Vergennes	9/18/2015	Culex restuans/piapiens mix	WNV
37	Burlington	9/18/2015	Culex restuans/piapiens mix	WNV
37	Burlington	9/18/2015	Culex restuans/piapiens mix	WNV
37	Montpelier	9/18/2015	Culex restuans/piapiens mix	WNV
37	Montpelier	9/18/2015	Culex restuans/piapiens mix	WNV
37	Brattleboro	9/16/2015	Culex restuans/piapiens mix	WNV
38	St. Albans City	9/22/2015	Culex restuans/piapiens mix	WNV
38	St. Albans City	9/22/2015	Culex restuans/piapiens mix	WNV
38	St. Albans City	9/22/2015	Culex restuans/piapiens mix	WNV
38	Brandon	9/22/2015	Culiseta morsitans	WNV
38	Rutland	9/22/2015	Culex restuans/piapiens mix	WNV
38	Vergennes	9/25/2015	Culex restuans/piapiens mix	WNV
38	Vergennes	9/25/2015	Culex restuans/piapiens mix	WNV
38	Burlington	9/25/2015	Culex restuans/piapiens mix	WNV
38	Burlington	9/25/2015	Culex restuans/piapiens mix	WNV
38	Montpelier	9/25/2015	Culex restuans/piapiens mix	WNV
39	Whiting	9/28/2015	Culiseta melanura	WNV
39	St. Albans City	9/29/2015	Culex restuans/piapiens mix	WNV