

Vermont Arbovirus Surveillance Weekly Report

Vermont Department of Health

Division of Health Surveillance

Test Summaries

MMWR Week 38 (9/14/14 – 9/20/2014)

Mosquitoes

MMWR Week	Pools Tested	EEE Positive	WNV Positive
38	181	0	0
YTD	2969	5	8

*A mosquito pool is a group of 1-50 mosquitoes of the same species, collected at the same trap location, on the same date.

*The data in the table includes the number of pools that have been tested and have final results.

- Over the season, 14 different mosquito species have been collected and tested for WNV and EEE, including: *Aedes cinereus*, *Aedes vexans*, *Coquillettidia perturbans*, *Culiseta melanura*, *Culiseta morsitans*, other *Culiseta* species, *Culex pipiens*, *Culex restuans*, *Culex salinarius*, *Ochlerotatus canadensis*, *Ochlerotatus trivittatus*, *Ochlerotatus stimulans*, *Ochlerotatus triseriatus*, and *Ochlerotatus japonicus*.

Summary of Positive Mosquito Pools

Town	Number of Pools	Date Collected	Mosquito Species	Virus
Grand Isle	1	6/17	<i>Ochlerotatus canadensis</i>	EEE
St Albans City	1	7/29	<i>Culex pipiens</i> & <i>Culex restauns</i>	WNV
Newbury	1	8/18	<i>Coquillettidia perturbans</i>	WNV
Whiting	2	8/19	<i>Culiseta melanura</i> & <i>Culiseta morsitans</i>	EEE
Putney	1	8/21	<i>Culex pipiens</i> & <i>Culex restauns</i>	WNV
Brattleboro	1	8/21	<i>Culex pipiens</i> & <i>Culex restauns</i>	WNV
Rockingham	3	8/21	<i>Culex pipiens</i> & <i>Culex restauns</i> , <i>Culex salinarius</i> , and <i>Ochlerotatus japonicas</i>	WNV
Springfield	1	9/2	<i>Culex pipiens</i> & <i>Culex restauns</i>	WNV
Colchester	1	9/3	<i>Culiseta melanura</i>	EEE
Whiting	1	9/9	<i>Culiseta melanura</i>	EEE

Report date: 9/22/2014

Risk Assessment

West Nile virus: No part of the state appears to be at higher risk for WNV infection. Over the years, WNV activity has been detected in all counties of Vermont in birds, mosquitoes, people and/or animals. The risk for WNV appears to be low but widespread in the state. Finding WNV in mosquitoes in St. Albans demonstrates that WNV is circulating in Vermont this summer.

Eastern equine encephalitis: Two areas of the state are at moderate risk based on detections of the EEE virus in the past two years. These areas are western Franklin County and northern Rutland/southern Addison Counties. For more details, see the risk maps at <http://healthvermont.gov/prevent/arbovirus/surveillance/index.aspx>. EEE virus was found in one mosquito pool from Grand Isle this year and, just last week, one in Colchester, which means that Northwestern Vermont has areas of low to moderate risk. Finding EEE virus positive mosquito pools again this year in Whiting should serve as a reminder that the virus is circulating in that area. Detections of EEE virus are much fewer than last year, but the risk level for southern Addison and northern Rutland Counties continues to be moderate.

Recommendations

All Vermonters should take steps to prevent mosquito bites:

- Limit time outside when mosquitoes are most active which is usually from dusk to dawn.
- Wear long-sleeved shirts and long pants outside when mosquitoes are active.
- Use insect repellents that are labeled as being effective against mosquitoes.
 - Effective ingredients include DEET, picaridin, oil of lemon eucalyptus and IR3535. Always use repellents according to the instructions on the label.
- Cover baby carriages or outdoor play spaces with mosquito netting.
- Fix any holes in the screens in your house and make sure they are tightly attached to the doors and windows.
- Reduce standing water around your home.
- Empty and refill containers such as water troughs and bird baths every 2 to 3 days to stop mosquitoes from breeding in them.

In addition, horses and other susceptible species should be vaccinated against EEE and WNV. People should consult their veterinarians about these vaccinations and the use of appropriate repellents for their animals.

For more information see: <http://healthvermont.gov/prevent/arbovirus/resources.aspx>

This table shows how many pools (batches) of mosquitoes from each town have been submitted for testing at the time of this report. Test results for some pools may be pending.

Number of pools collected by week ¹																	
Towns	6/1-6/7	6/8-6/14	6/15-6/21	6/22-6/28	6/29-7/5	7/6-7/12	7/13-7/19	7/20-7/26	7/27-8/2	8/3-8/9	8/10-8/16	8/17-8/23	8/24-8/30	8/31-9/6	9/7-9/13	9/14-9/20	Grand Total
Alburg	9	10	6	42	7	13	11	10	21	9	11	6	16	17	6		194
Benson	1		2	1	1	2	5	2	2	7	5	1	5	2			36
Brandon		3	8	2	4	23	12	3	13	8	12	6	5	9	7	7	122
Brattleboro							3		4	3	8	9	7	5	5		44
Brookfield					1	1	5	2	2	3	2		1	1			18
Castleton	2		1	2	3	11	3	2	2	6	8	3	6	3	5		57
Colchester	5	1		2			4	1	12	13	1	4	5	6	4		58
Cornwall		4	2	15		1	3	10	1	11	14	8	11	12	11	3	106
Danby			1	1		1		1	3		6	5	3	7	5		33
Danville						1	5			2		3					11
Dummerston								2	2	5	6	3	3	2	1		24
East Montpelier			1		1					3		3					8
Eden			1			11	2	5	12	1	6	6		3	1		48
Elmore					1			2	1	3		2					9
Fair Haven			1	1	1	3	7	1		10	5	4	3	2	3		41
Fairfax			1		1		3	8	1	3	7	3	5	3			35
Grand Isle	7	5	13	28	6	16	12	12	12	11	11	8	7	6	3		157
Hartford					1	1	2		1	5	3	3	1	1	1		19
Highgate				9		3	9	9	8		4	2	6				50
Hyde Park			2	1	2	12	3	1	5	2	2	2		4			36
Jericho			2					1	5	3	1	2	1		1		16
Leicester			20	4	3	3	12	3	1	1	10	14	10	12	11	16	120
Lowell			1			3	8	1	1	6	3	5		6			34
Lyndon						2			1		2	1		1			7
Marshfield	6				1		2	7	1	1	2	1		1			22
Milton	5	4	9	17	5	25	11	4	10	7	9	4	4	2			116
Morrisville			2		1		1	1	2	8	3	4	1				23
New Haven	2	1	2	2	1	5	2	11	1	7	6	9	9	5	6		69
Newbury								2	1	4	5	2	2	1	2		19
Newport City			3			4	7	3	7	7	4						35
Orwell			1			1	10	3		8	10	5	7		3		48
Pittsford			2	2		9	8	4	9	8	5	7	5	2	4		65
Proctor			2	2	1	13	1	7	6	1	9	7	7	6	6		68
Putney							3	1	6	4	14	17	9	8	6		68
Randolph			2		1	1	2	7	4	1	7	3	3	1	1		33
Rockingham							7	3	6	10	4	13	12	15	7		77

Rutland			1	7	1	2	10	7	8	10	3	8	9		6		72
Sheldon	2	1		1	6	2	2	6		9	1	9	8				47
Springfield							2	1	1	5	7	11	9	10	7	4	57
St. Albans City						2	6	9	5		9	6		4	2		43
Stowe										2	1	1					4
Sudbury		5	6	5	4	17	5	5	9	3	5	4	3	4	2	2	79
Sutton		2		1	2	2	2	8	1	3	2	5		2			30
Swanton	3	5	5	19	2	3	14	4	5	8	2	10	7	1	4		92
Vernon								6	16	11	12	12	11	6	8		82
Waitsfield										1	3	1			1		6
Wallingford				2		1	1	2	6		7	6	5	6	5		41
Weathersfield			1			1	6	3	11	4	14	7	8	7	3	5	70
West Haven								4									4
West Windsor						2	4	1	1	6	5	10	4	6	4	2	45
Westminster								11	3	4	7			2	2		29
Whiting		43	10	63	7	5	18	12	22	26	20	16	20	14	21	13	310
Williston							1	1	1	10	1	4	4	3	1		26
Woodbury			1					1		2		1					5
Woodstock											2	1					3
Grand Total	42	84	109	229	64	202	234	210	252	285	306	287	242	208	165	52	2971

¹Results may not be available on all of these samples