NH DIVISION OF Public Health Services
Improving health, preventing disease, reducing costs for all
Department of Health and Human Services

Bureau of Infectious Disease Control
Infectious Disease Surveillance Section

New Hampshire Arbovirus Surveillance Bulletin #12

ROUTINE TEST RESULTS
MMWR Week 36 September 5, 2021 – September 11, 2021

HUMANS		Number Tested	WNV Positive[¥]	EEEV Positive[¥]	JCV Positive[¥]	POW Positive[¥]
CURRENT YEAR	Week	2	0	0	0	0
	YTD	20	0	0	1	0
Prior Years	2020	33	0	0	5	0
	2019	35	0	0	3	2
	2018	30	0	0	1[€]	0
	2017	31	1[£]	0	4	1
	2016	31	0	0	0	1

[¥] Confirmatory testing completed by the Centers for Disease Control and Prevention (CDC). There is a delay between testing and result confirmation.
[£] Testing performed by commercial laboratory
[€] Infection likely acquired out of state.

ANIMALS		Number Tested	WNV Positive	EEEV Positive
CURRENT YEAR	Week	0	0	0
	YTD	1	0	0
Prior Years	2020	7	0	0
	2019	19	1	2
	2018	13	4	0
	2017	7	0	0
	2016	10	0	0

MOSQUITO BATCHES*		Number Tested	WNV Positive	EEEV Positive
CURRENT YEAR	Week [Ŧ]	416	1	0
	YTD	4,328	4	0
Prior Years	2020	1988	2	0
	2019	5610	1	16
	2018	4945	32	6
	2017	4176	9	0
	2016	1773	1	0

* A mosquito batch is a collection of mosquitoes sorted by species, date of collection, and trap location.

[Ŧ] This week, mosquitoes were submitted from Cheshire, Hillsborough, Rockingham and Strafford for routine surveillance.

JAMESTOWN CANYON VIRUS MOSQUITO TEST RESULTS
MMWR Week 36 September 5, 2021 – September 11, 2021

MOSQUITO BATCHES*		Number Tested	JCV Positive
CURRENT YEAR	Week [Ŧ]	45	0
	YTD	2,271	14

Note: Testing for WNV and EEEV will not begin until July 1, 2021 as part of routine surveillance. For the 2021 arboviral surveillance season, collections of mosquitoes for JCV surveillance began May 12, 2021. These mosquito collections are separate from those collected for our routine WNV and EEEV. Mosquito testing for JCV will occur as the New Hampshire Public Health Laboratories staff have the availability to complete testing as it is not part of our routine surveillance program. JCV mosquito data will be reported out as it is available through this bulletin. JCV surveillance in 2021 is part of a pilot project in collaboration with Cornell University, Northeast Regional Center of Excellence in Vectorborne Diseases (NEVBD), and the New Hampshire Division of Forests and Lands. We are grateful for their support. Additional information about this project can be found here: https://www.dhhs.nh.gov/dphs/cdcs/arboviral/results.htm.

TEST RESULT SUMMARIES
2021 YEAR TO DATE

MOSQUITO BATCHES

This year, only mosquito batches containing >1 individual were accepted for testing.

Town or City	Date Collected	Species	Virus Result
Bow	06/08/2021	*Aedes excrucians*	Jamestown Canyon Virus
Canterbury	06/11/2021	*Aedes abserratus*	Jamestown Canyon Virus
Dunbarton	06/17/2021	*Aedes sticticus*	Jamestown Canyon Virus
Derry	06/24/2021	*Aedes excrucians*	Jamestown Canyon Virus
Kingston	06/30/2021	*Aedes canadensis*	Jamestown Canyon Virus
Canterbury	05/27/2021	*Anopheles punctipennis*	Jamestown Canyon Virus
Dunbarton	07/07/2021	*Aedes excrucians*	Jamestown Canyon Virus
Canterbury	07/20/2021	*Aedes excrucians*	Jamestown Canyon Virus
Canterbury	07/20/2021	*Coquillettidia perturbans*	Jamestown Canyon Virus
Salem	08/03/2021	*Culex pipiens*	West Nile Virus
Dunbarton	06/18/2021	*Aedes abserratus*	Jamestown Canyon Virus
Dunbarton	06/18/2021	*Coquillettidia perturbans*	Jamestown Canyon Virus
Allenstown	08/10/2021	*Aedes excrucians*	Jamestown Canyon Virus
Allenstown	08/10/2021	*Coquillettidia perturbans*	Jamestown Canyon Virus
Allenstown	08/10/2021	*Aedes canadensis*	Jamestown Canyon Virus
Portsmouth	08/31/2021	*Culex pipiens*	West Nile Virus
Manchester	08/30/2021	*Culex pipiens/restuans*	West Nile Virus
Manchester	09/07/2021	*Culex pipiens/restuans*	West Nile Virus

ANIMALS

There have been no animal cases of EEEV or WNV identified in New Hampshire in 2021 to date.

HUMANS

Town or City	Onset Date	Age Range	Virus Result
Dublin	06/28/2021	Adult	Jamestown Canyon Virus

Data notes:

1. Data provided are those for which final results are available. Data are current as of 9/16/2021.
2. Test results include only those specimens tested with results finalized during the week being reported on. Pending results from the previous week are not included.
3. Prior years' data is cumulative.
4. YTD = All specimens submitted beginning 01/01/2021 through the week being reported on.
5. WNV = West Nile virus. EEEV = Eastern Equine Encephalitis Virus. JCV = Jamestown Canyon Virus. POW = Powassan Virus

Use the following link to view the locations of positive test results and regional risk maps:
http://www.dhhs.nh.gov/dphs/cdcs/arboviral/results.htm

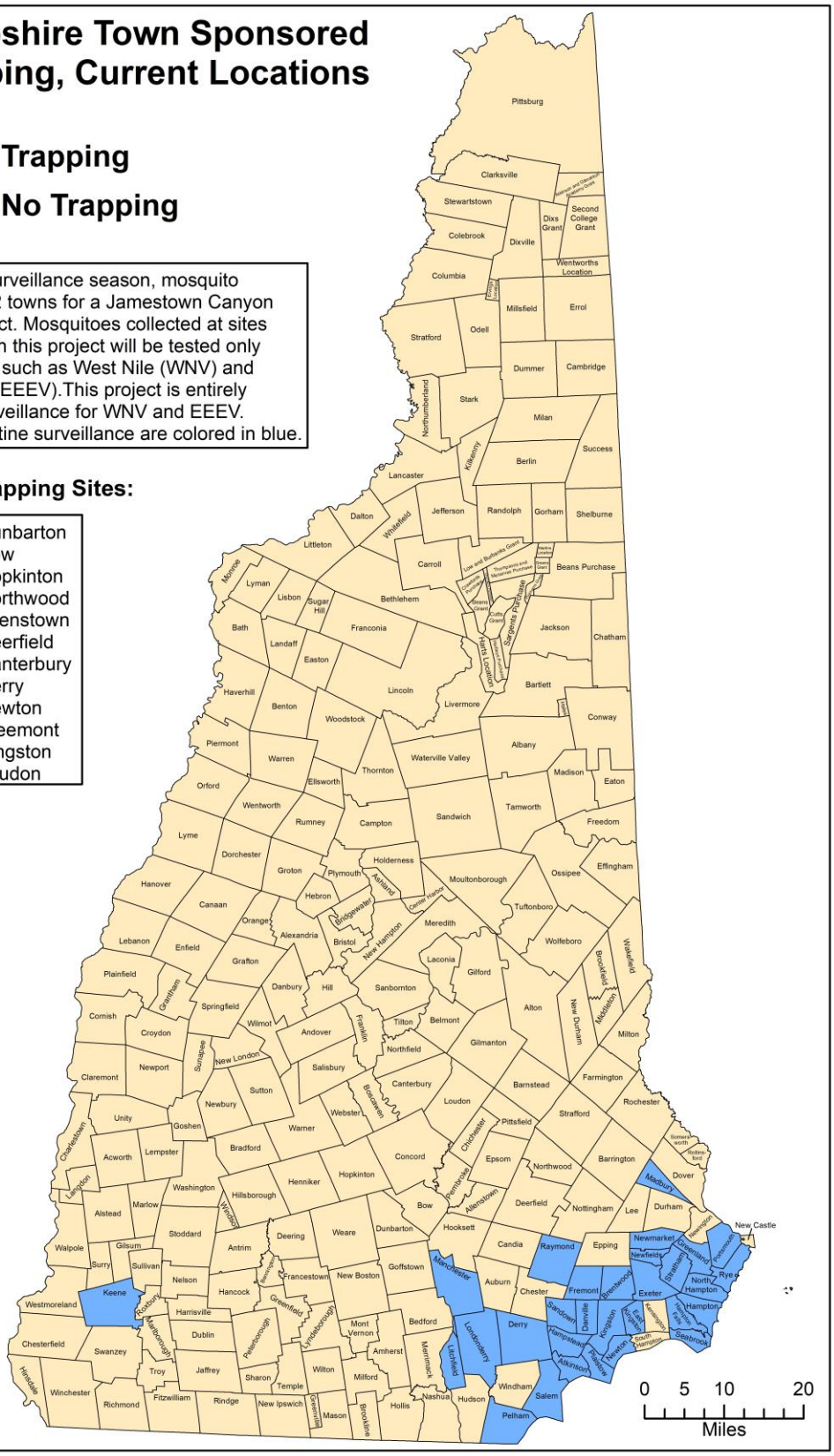
For more information regarding these data, contact Marco Notarangelo, Vectorborne Disease Surveillance Coordinator, at (603) 271-0273 or marco.notarangelo@dhhs.nh.gov.

2021 New Hampshire Town Sponsored Mosquito Trapping, Current Locations

Trapping

No Trapping

New for the 2021 mosquito surveillance season, mosquito collections are occurring in 12 towns for a Jamestown Canyon virus (JCV) surveillance project. Mosquitoes collected at sites in these towns associated with this project will be tested only for JCV and not other viruses such as West Nile (WNV) and Eastern Equine Encephalitis (EEEV).This project is entirely separate from our routine surveillance for WNV and EEEV. Towns participating in our routine surveillance are colored in blue.

JCV Trapping Sites:

Dunbarton
Bow
Hopkinton
Northwood
Allenstown
Deerfield
Canterbury
Derry
Newton
Freemont
Kingston
Loudon