

**New Hampshire Arbovirus Surveillance Bulletin #14**

**ROUTINE TEST RESULTS**

**MMWR Week 38 September 19, 2021 – September 25, 2021**

| HUMANS              |      | Number Tested | WNV Positive <sup>¥</sup> | EEEV Positive <sup>¥</sup> | JCV Positive <sup>¥</sup> | POW Positive <sup>¥</sup> |
|---------------------|------|---------------|---------------------------|----------------------------|---------------------------|---------------------------|
| <b>CURRENT YEAR</b> | Week | 0             | 0                         | 0                          | 0                         | 0                         |
|                     | YTD  | 25            | 0                         | 0                          | 1                         | 0                         |
| Prior Years         | 2020 | 33            | 0                         | 0                          | 5                         | 0                         |
|                     | 2019 | 35            | 0                         | 0                          | 3                         | 2                         |
|                     | 2018 | 30            | 0                         | 0                          | 1 <sup>€</sup>            | 0                         |
|                     | 2017 | 31            | 1 <sup>£</sup>            | 0                          | 4                         | 1                         |
|                     | 2016 | 31            | 0                         | 0                          | 0                         | 1                         |

<sup>¥</sup> Confirmatory testing completed by the Centers for Disease Control and Prevention (CDC). There is a delay between testing and result confirmation.

<sup>£</sup> Testing performed by commercial laboratory

<sup>€</sup> Infection likely acquired out of state.

| ANIMALS             |      | Number Tested | WNV Positive | EEEV Positive |
|---------------------|------|---------------|--------------|---------------|
| <b>CURRENT YEAR</b> | 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 |
|---------------------|-------------------|---------------|--------------|---------------|
| <b>CURRENT YEAR</b> | Week <sup>‡</sup> | 350           | 0            | 0             |
|                     | YTD               | 5042          | 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.

<sup>‡</sup> This week, mosquitoes were submitted from Hillsborough, Rockingham and Cheshire for routine surveillance.

**JAMESTOWN CANYON VIRUS MOSQUITO TEST RESULTS**  
**MMWR Week 38 September 19, 2021 – September 25, 2021**

| MOSQUITO BATCHES* |                   | Number Tested | JCV Positive |
|-------------------|-------------------|---------------|--------------|
| CURRENT YEAR      | Week <sup>†</sup> | 0             | 0            |
|                   | YTD               | 2271          | 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     | <i>Aedes excrucians</i>          | Jamestown Canyon Virus |
| Canterbury   | 06/11/2021     | <i>Aedes abserratus</i>          | Jamestown Canyon Virus |
| Dunbarton    | 06/17/2021     | <i>Aedes sticticus</i>           | Jamestown Canyon Virus |
| Derry        | 06/24/2021     | <i>Aedes excrucians</i>          | Jamestown Canyon Virus |
| Kingston     | 06/30/2021     | <i>Aedes canadensis</i>          | Jamestown Canyon Virus |
| Canterbury   | 05/27/2021     | <i>Anopheles punctipennis</i>    | Jamestown Canyon Virus |
| Dunbarton    | 07/07/2021     | <i>Aedes excrucians</i>          | Jamestown Canyon Virus |
| Canterbury   | 07/20/2021     | <i>Aedes excrucians</i>          | Jamestown Canyon Virus |
| Canterbury   | 07/20/2021     | <i>Coquillettidia perturbans</i> | Jamestown Canyon Virus |
| Salem        | 08/03/2021     | <i>Culex pipiens</i>             | West Nile Virus        |
| Dunbarton    | 06/18/2021     | <i>Aedes abserratus</i>          | Jamestown Canyon Virus |
| Dunbarton    | 06/18/2021     | <i>Coquillettidia perturbans</i> | Jamestown Canyon Virus |
| Allentown    | 08/10/2021     | <i>Aedes excrucians</i>          | Jamestown Canyon Virus |
| Allentown    | 08/10/2021     | <i>Coquillettidia perturbans</i> | Jamestown Canyon Virus |
| Allentown    | 08/10/2021     | <i>Aedes canadensis</i>          | Jamestown Canyon Virus |
| Portsmouth   | 08/31/2021     | <i>Culex pipiens</i>             | West Nile Virus        |
| Manchester   | 08/30/2021     | <i>Culex pipiens/restuans</i>    | West Nile Virus        |
| Manchester   | 09/07/2021     | <i>Culex pipiens/restuans</i>    | 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 9/30/2021.
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](mailto: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

