

## Massachusetts Department of Public Health Arbovirus Surveillance Program Report

### Key Public Risk Communication Messages for This Week:

MDPH has identified four WNV human cases in Middlesex County and 98 West Nile virus positive mosquito samples collected in Barnstable, Bristol, Essex, Franklin, Hampden, Hampshire, Middlesex, Norfolk, Plymouth and Suffolk Counties. The populations of mosquito vectors that transmits WNV and EEE are elevated due to intense regional precipitation events and average temperatures. Avoid mosquito bites by using EPA approved repellents, appropriate clothing and avoiding peak mosquito activity between dusk and dawn. Remove standing water by emptying containers and tarps.

Check your risk levels throughout the season by visiting our interactive site <https://www.mass.gov/info-details/massachusetts-arbovirus-update> For a detailed list of findings in your community select [Arbovirus Results Summary](#) on the main page.

Please review the 2021 MDPH Surveillance and Response Plan for updates to risk levels and risk messaging.  
<https://www.mass.gov/doc/2021-arbovirus-surveillance-and-response-plan/download>

#### Establish good mosquito avoidance habits now

|  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Teach children to be aware of mosquito activity around them and avoid it</li></ul> |  |
| • Pick a repellent with an EPA-approved active ingredient  | • Use long sleeves to cover up when possible |
| • Remove standing water to help reduce mosquito populations  | • Repair screens                             |

| <b>WNV and EEE Virus Surveillance Summary</b><br>Results contained in this report reflect data inclusive of<br>MMWR Week 35 (Sunday, 08/29/2021-Saturday, 09/03/2021) |      |
|---|------|
| <b>Mosquito Surveillance</b>  |      |
| Number of Mosquito Samples Tested   | 6832 |
| Number of WNV Positive Samples  | 98   |
| Number of EEE Positive Samples  | 0    |
| <b>Equine/Mammal Surveillance</b>   |      |
| Number of Mammal Specimens Tested   | 8    |
| Number of WNV Positive Horses   | 0    |
| Number of EEE Positive Horses   | 0    |
| Number of other EEE Positive Mammals  | 0    |
| <b>Human Surveillance</b>   |      |
| Number of Human Specimens Tested  | 128  |
| Number of Human WNV Cases   | 4    |
| Number of Human EEE Cases   | 0    |

**Summary of 2021 Mosquito Samples Tested**  
**Massachusetts State Public Health Laboratory**

| MM WR Week:<br>(Specimens Tested) | Berkshire County MCP | Bristol County MCP | Cape Cod MCP | Central MA MCP | Dukes County MCP | East Middlesex MCP | Norfolk County MCP | Northeast MA MCP | Pioneer Valley | Plymouth County MCP | SLI         | Suffolk County MCP | Total Tested |
|-----------------------------------|----------------------|--------------------|--------------|----------------|------------------|--------------------|--------------------|------------------|----------------|---------------------|-------------|--------------------|--------------|
| 30 (07/25-07/31/2021)             | 9                    | 44                 | 58           | 101            | 5                | 31                 | 15                 | 43               | 40             | 40                  | 347         | 20                 | 753          |
| 31 (08/01-08/07/2021)             | 4                    | 35                 | 47           | 183            | 5                | 9                  | 30                 | 55               | 57             | 25                  | 253         | 15                 | 718          |
| 32 (08/08-08/14/2021)             | 21                   | 37                 | 38           | 271            | 1                | 11                 | 38                 | 64               | 38             | 51                  | 248         | 13                 | 831          |
| 33 (08/15-08/21/2021)             | 43                   | 41                 | 39           | 175            | 1                | 18                 | 26                 | 55               | 32             | 48                  | 183         | 7                  | 668          |
| 34 (08/22-08/28/2021)             | 43                   | 41                 | 33           | 176            | 3                | 2                  | 31                 | 53               | 33             | 26                  | 149         | 0                  | 590          |
| 35 (08/29-09/03/2021)             | 43                   | 40                 | 38           | 175            | 0                | 19                 | 17                 | 60               | 15             | 28                  | 120         | 12                 | 567          |
| <b>Total</b>                      | <b>260</b>           | <b>373</b>         | <b>500</b>   | <b>1407</b>    | <b>22</b>        | <b>142</b>         | <b>256</b>         | <b>430</b>       | <b>330</b>     | <b>409</b>          | <b>2604</b> | <b>99</b>          | <b>6832</b>  |

Numbers reflect finalized results; data are subject to change as additional test results are finalized.

**Cumulative Confirmed and Probable Human Chikungunya Virus Infections and Dengue Fever Cases Reported in Massachusetts by County of Residence, 2021**

(These data are current as of 09/04/2021 and are subject to change)

| County            | Chikungunya virus infection | Dengue Fever |
|-------------------|-----------------------------|--------------|
| <b>Barnstable</b> | 0                           | 0            |
| <b>Berkshire</b>  | 0                           | 0            |
| <b>Bristol</b>    | 0                           | 0            |
| <b>Dukes</b>      | 0                           | 0            |
| <b>Essex</b>      | 0                           | 0            |
| <b>Franklin</b>   | 0                           | 0            |
| <b>Hampden</b>    | 0                           | 0            |
| <b>Hampshire</b>  | 0                           | 0            |
| <b>Middlesex</b>  | 0                           | 0            |
| <b>Nantucket</b>  | 0                           | 0            |
| <b>Norfolk</b>    | 0                           | 0            |
| <b>Plymouth</b>   | 0                           | 0            |
| <b>Suffolk</b>    | 0                           | 0            |
| <b>Worcester</b>  | 0                           | 0            |
| <b>Total</b>      | 0                           | 0            |

**Note:** Cases listed above were travel-acquired unless otherwise noted.