

# Massachusetts Department of Public Health

## Arbovirus Surveillance Program Report

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

MDPH reported eight EEE positive mosquito samples in 2024, from Plymouth County. Risk levels in the region have been elevated. MDPH also reported six WNV mosquito samples in 2024. Personal protection measures are recommended due early season arbovirus detections and above average mosquito vector populations across the state. Check your risk levels throughout the season by visiting our interactive site <https://www.mass.gov/info-details/massachusetts-arbovirus-update>

Intense regional precipitation events and warm weather will support increased populations of WNV and EEE mosquito vectors. 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.

Please review the 2024 MDPH Surveillance and Response Plan for updates to risk levels and risk messaging. <https://www.mass.gov/doc/2024-arbovirus-surveillance-and-response-plan/download>

| <b>WNV and EEE Virus Surveillance Summary</b><br>Results contained in this report reflect data up to and inclusive of<br>MMWR Week 28 (Sunday, 07/07/2024-Saturday, 07/13/2024) |      |
|---|------|
| <b>Mosquito Surveillance</b>  |      |
| Number of Mosquito Samples Tested   | 2480 |
| Number of WNV Positive Samples  | 6    |
| Number of EEE Positive Samples  | 8    |
| <b>Equine/Mammal Surveillance</b>   |      |
| Number of Mammal Specimens Tested   | 2    |
| Number of WNV Positive Horses   | 0    |
| Number of EEE Positive Horses   | 0    |
| Number of other WNV Positive Mammals  | 0    |
| <b>Human Surveillance</b>   |      |
| Number of Human Specimens Tested  | 13   |
| Number of Human WNV Cases   | 0    |
| Number of Human EEE Cases   | 0    |

| Summary of 2024 Mosquito Samples Tested<br>Massachusetts State Public Health Laboratory |                            |                          |                 |                      |                        |                          |                          |                        |                   |                           |      |                          |                 |
|---|----------------------------|--------------------------|-----------------|----------------------|------------------------|--------------------------|--------------------------|------------------------|-------------------|---------------------------|------|--------------------------|-----------------|
| MMWR Week:<br>(Specimens Tested)  | Berkshire<br>County<br>MCP | Bristol<br>County<br>MCP | Cape Cod<br>MCP | Central<br>MA<br>MCP | Dukes<br>County<br>MCP | East<br>Middlesex<br>MCP | Norfolk<br>County<br>MCP | Northeast<br>MA<br>MCP | Pioneer<br>Valley | Plymouth<br>County<br>MCP | SPHL | Suffolk<br>County<br>MCP | Total<br>Tested |
| 25 (6/16-6/22/2024)   | 80                         | 20                       | 43              | 119                  | 0                      | 27                       | 27                       | 63                     | 47                | 21                        | 322  | 11                       | 780             |
| 26 (6/23-06/29/2024)  | 47                         | 22                       | 50              | 89                   | 0                      | 9                        | 22                       | 23                     | 33                | 14                        | 145  | 9                        | 463             |
| 27 (06/30-07/06/2024)   | 43                         | 28                       | 58              | 107                  | 5                      | 13                       | 30                       | 35                     | 46                | 9                         | 88   | 15                       | 477             |
| 28 (07/07-07/13/2024)   | 35                         | 24                       | 72              | 72                   | 6                      | 55                       | 0                        | 35                     | 42                | 113                       | 290  | 16                       | 760             |
| 29 (07/14-07/20/2024)   | 0                          | 0                        | 0               | 0                    | 0                      | 0                        | 0                        | 0                      | 0                 | 0                         | 0    | 0                        | 0               |
| Total   | 205                        | 94                       | 223             | 387                  | 11                     | 104                      | 79                       | 156                    | 168               | 157                       | 845  | 51                       | 2480            |

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, 2024**  
(These data are current as of 7/15/2024 and are subject to change)

| County            | Chikungunya virus infection | Dengue Fever |
|-------------------|-----------------------------|--------------|
| <b>Barnstable</b> | 1                           | 1            |
| <b>Berkshire</b>  | 0                           | 0            |
| <b>Bristol</b>    | 0                           | 0            |
| <b>Dukes</b>      | 2                           | 0            |
| <b>Essex</b>      | 0                           | 4            |
| <b>Franklin</b>   | 0                           | 0            |
| <b>Hampden</b>    | 0                           | 0            |
| <b>Hampshire</b>  | 0                           | 2            |
| <b>Middlesex</b>  | 8                           | 15           |
| <b>Nantucket</b>  | 0                           | 0            |
| <b>Norfolk</b>    | 0                           | 10           |
| <b>Plymouth</b>   | 0                           | 1            |
| <b>Suffolk</b>    | 3                           | 22           |
| <b>Worcester</b>  | 1                           | 6            |
| <b>Total</b>      | 15                          | 61           |

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