

# Massachusetts Department of Public Health

## Arbovirus Surveillance Program Report

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

MDPH concluded mosquito testing and surveillance on 10/01/21. To date MDPH has identified seven WNV human cases in Bristol, Essex and Middlesex Counties. Additionally, MDPH has identified 144 West Nile virus positive mosquito samples collected in Barnstable, Berkshire, Bristol, Essex, Franklin, Hampden, Hampshire, Middlesex, Norfolk, Plymouth and Suffolk Counties. The populations of mosquito vectors that transmits WNV and EEE have declined due to low temperatures and average regional precipitation events. 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.

Risk of mosquito-borne disease will exist until the first hard frost. 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

• Teach children to be aware of mosquito activity around them and avoid it	
• 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

WNV and EEE Virus Surveillance Summary	
Results contained in this report reflect data inclusive of MMWR Week 39 (Sunday, 09/26/2021-Saturday, 10/02/2021)	
<b>Mosquito Surveillance</b>	
Number of Mosquito Samples Tested	8552
Number of WNV Positive Samples	144
Number of EEE Positive Samples	0
<b>Equine/Mammal Surveillance</b>	
Number of Mammal Specimens Tested	10
Number of WNV Positive Horses	0
Number of EEE Positive Horses	0
Number of other WNV Positive Mammals	1
<b>Human Surveillance</b>	
Number of Human Specimens Tested	174
Number of Human WNV Cases	7
Number of Human EEE Cases	0

Summary of 2021 Mosquito Samples Tested Massachusetts State Public Health Laboratory													
MMWR Week: (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
34 (08/22-08/28/2021)	43	41	33	176	3	2	31	53	33	26	149	0	590
35 (08/29-09/04/2021)	43	40	38	175	0	19	17	60	15	28	120	12	567
36 (09/05-09/11/2021)	11	32	28	175	2	0	19	120	18	16	76	0	497
37 (09/12-09/18/2021)	10	29	29	175	0	16	14	72	15	40	69	6	475
38 (09/19-09/25/2021)	7	38	24	171	2	13	8	72	6	21	45	7	414
39 (09/26-10/02/2021)	10	27	25	143	0	19	9	54	0	16	31	0	334
<b>Total</b>	298	499	606	2071	26	190	306	748	369	502	2825	112	8552

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 10/02/2021 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.