

Massachusetts Department of Public Health Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH has identified four WNV human cases and one animal case in Middlesex County. Additionally, MDPH has identified 108 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 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.

On 9/10 MDPH raised the WNV risk level to High for 27 communities in Essex, Middlesex Norfolk and Suffolk Counties. 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 36 (Sunday, 09/05/2021-Saturday, 09/11/2021)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	7329
Number of WNV Positive Samples	108
Number of EEE Positive Samples	0
Equine/Mammal Surveillance	
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
Human Surveillance	
Number of Human Specimens Tested	145
Number of Human WNV Cases	4
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
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 (08/29-09/04/2021)	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
Total	271	405	528	1582	24	142	275	550	348	425	2680	99	7329

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 09/11/2021 and are subject to change)

County	Chikungunya virus infection	Dengue Fever
Barnstable	0	0
Berkshire	0	0
Bristol	0	0
Dukes	0	0
Essex	0	0
Franklin	0	0
Hampden	0	0
Hampshire	0	0
Middlesex	0	0
Nantucket	0	0
Norfolk	0	0
Plymouth	0	0
Suffolk	0	0
Worcester	0	0
Total	0	0

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