

Massachusetts Department of Public Health

Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH has identified four EEE human cases in Middlesex, Plymouth, and Worcester Counties, three EEE horse cases in Plymouth County, and 96 EEE positive mosquito samples, from Barnstable, Bristol, Essex, Middlesex, Norfolk, Plymouth, and Worcester Counties. MDPH has also identified 13 WNV human cases from Barnstable, Bristol, Essex, Hampden, Middlesex, Norfolk, and Suffolk Counties, and 332 WNV mosquito samples collected statewide.

In response to recent WNV arbovirus detections, risk levels have been elevated in adjacent communities. Personal protection measures are recommended due to elevated arbovirus detections and 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>

Regional precipitation events and above average daytime weather will support 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>

WNV and EEE Virus Surveillance Summary Results contained in this report reflect data up to and inclusive of MMWR Week 39 (Sunday, 09/22/2024-Saturday, 09/28/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	8393
Number of WNV Positive Samples	332
Number of EEE Positive Samples	96
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	11
Number of WNV Positive Horses	0
Number of EEE Positive Horses	3
Number of other WNV Positive Mammals	0
Human Surveillance	
Number of Human Specimens Tested	227
Number of Human WNV Cases	13
Number of Human EEE Cases	4

Summary of 2024 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	SPHL	Suffolk County MCP	Total Tested
35 (08/25-08/31/2024)	26	31	42	70	6	33	16	65	35	40	154	22	540
36 (09/01-09/07/2024)	26	37	48	78	4	31	33	38	26	38	61	17	437
37 (09/08-09/14/2024)	22	19	13	72	4	32	23	31	18	27	46	9	316
38 (09/15-09/21/2024)	13	27	12	38	4	22	15	25	31	7	29	15	238
39 (09/22-09/28/2024)	2	24	17	51	4	22	14	28	17	13	17	8	217
Total	482	415	703	1319	65	499	365	709	592	824	2142	278	8393

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

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Chikungunya and Dengue, Reported in Massachusetts by County of Residence, 2024

(These data are current as of 9/30/2024 and are subject to change)

County	Chikungunya virus infection	Dengue Fever
Barnstable	1	1
Berkshire	0	0
Bristol	0	2
Dukes	2	0
Essex	0	8
Franklin	0	0
Hampden	0	2
Hampshire	0	2
Middlesex	8	25
Nantucket	0	0
Norfolk	1	14
Plymouth	0	2
Suffolk	4	39
Worcester	2	15
Total	18	110

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