

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, two 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 11 WNV human cases from Barnstable, Bristol, Hampden, Middlesex, Norfolk, and Suffolk Counties, and 330 WNV mosquito samples collected statewide.

Aerial spraying to control EEE mosquito vectors in Plymouth County and ground spraying in Worcester County was completed on 8/31/24. For more information and a list of impacted communities, please visit <https://www.mass.gov/info-details/mosquito-control-and-spraying>

Completed aerial and ground spray maps are available are posted here: <https://massnrc.org/spray-map/Region/List>

In response to recent 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 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 38 (Sunday, 09/15/2024-Saturday, 09/21/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	8176
Number of WNV Positive Samples	330
Number of EEE Positive Samples	96
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	9
Number of WNV Positive Horses	0
Number of EEE Positive Horses	2
Number of other WNV Positive Mammals	0
Human Surveillance	
Number of Human Specimens Tested	211
Number of Human WNV Cases	11
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
34 (08/18-08/24/2024)	27	32	40	66	6	45	15	88	30	0	91	10	450
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
Total	480	391	686	1268	61	477	351	681	575	811	2125	270	8176

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

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

(These data are current as of 9/23/2024 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	7
Franklin	0	0
Hampden	0	2
Hampshire	0	2
Middlesex	8	25
Nantucket	0	0
Norfolk	0	14
Plymouth	0	2
Suffolk	3	36
Worcester	1	14
Total	15	105

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