

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 15 WNV human cases from Barnstable, Bristol, Essex, Hampden, Middlesex, Norfolk, and Suffolk Counties, and 333 WNV mosquito samples collected statewide.

The risk of EEE transmission has declined statewide due to lower temperatures and the absence of suitable EEE vectors. On 10/2, DPH decreased EEE risk to Moderate for all communities previously at Critical or High risk. The risk of human WNV transmission will continue for the next few weeks.

Personal protection measures are recommended due to elevated arbovirus detections. 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 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 40 (Sunday, 09/29/2024-Saturday, 10/05/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	8530
Number of WNV Positive Samples	333
Number of EEE Positive Samples	96
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	13
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	241
Number of Human WNV Cases	15
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
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
40 (09/29-10/05/2024)	5	24	15	50	0	5	9	0	13	0	7	9	137
Total	487	439	718	1369	65	504	374	709	605	824	2149	287	8530

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 9/30/2024 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