

Massachusetts Department of Public Health Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

On 8/6/24, MDPH identified the first WNV human case in Hampden County and the first EEE horse case in the community of Plymouth. In response, risk levels have been elevated in adjacent communities. DPH has identified 34 EEE positive mosquito samples, from Barnstable, Essex, Norfolk, and Plymouth Counties. MDPH also reported 145 WNV mosquito samples collected this season. 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>

Average regional precipitation events and warm weather will continue to 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 32 (Sunday, 08/04/2024-Saturday, 08/10/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	5505
Number of WNV Positive Samples	145
Number of EEE Positive Samples	34
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	4
Number of WNV Positive Horses	0
Number of EEE Positive Horses	1
Number of other WNV Positive Mammals	0
Human Surveillance	
Number of Human Specimens Tested	65
Number of Human WNV Cases	1
Number of Human EEE Cases	0

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
28 (07/07-07/13/2024)	35	24	72	72	6	55	0	35	42	113	290	16	760
29 (07/14-07/20/2024)	38	27	55	116	0	49	19	31	65	69	279	30	778
30 (07/21-07/27/2024)	32	29	67	108	9	31	41	35	59	95	186	41	734
31 (07/28-08/03/2024)	39	31	65	117	7	61	35	83	56	128	185	30	837
32 (08/04-08/10/2024)	27	30	63	120	5	46	33	88	44	37	155	28	676
Total	341	211	473	848	32	291	207	393	392	487	1650	180	5505

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

Reported in Massachusetts by County of Residence, 2024
 (These data are current as of 8/12/2024 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	5
Franklin	0	0
Hampden	0	0
Hampshire	0	2
Middlesex	8	19
Nantucket	0	0
Norfolk	0	12
Plymouth	0	2
Suffolk	3	26
Worcester	1	9
Total	15	78

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