

Massachusetts Department of Public Health

Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

On 8/16/24, MDPH identified the first EEE human case in Worcester County. DPH has identified a single EEE horse case, and 55 EEE positive mosquito samples, from Barnstable, Essex, Norfolk, and Plymouth Counties. MDPH also reported two WNV human cases and 247 WNV mosquito samples collected statewide. In response to increasing 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>

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 33 (Sunday, 08/11/2024-Saturday, 08/17/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	6195
Number of WNV Positive Samples	247
Number of EEE Positive Samples	55
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	79
Number of Human WNV Cases	2
Number of Human EEE Cases	1

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 Country MCP	Northeast MA MCP	Pioneer Valley	Plymouth County MCP	SPHL	Suffolk County MCP	Total Tested	
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	96	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	
33 (08/11-08/17/2024)	25	34	58	96	5	23	42	41	43	212	94	17	690	
Total	366	245	531	944	37	314	249	434	435	699	1744	197	6195	

Reported in Massachusetts by County of Residence, 2024
(These data are current as of 8/19/2024 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	11
Total	15	80

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