

Massachusetts Department of Public Health

Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH reported eight EEE positive mosquito samples in 2024, from Plymouth County. Risk levels in the region have been elevated. MDPH also reported six WNV mosquito samples in 2024. Personal protection measures are recommended due early season arbovirus detections and above 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>

Intense regional precipitation events and warm weather will support increased 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 28 (Sunday, 07/07/2024-Saturday, 07/13/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	2480
Number of WNV Positive Samples	6
Number of EEE Positive Samples	8
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	2
Number of WNV Positive Horses	0
Number of EEE Positive Horses	0
Number of other WNV Positive Mammals	0
Human Surveillance	
Number of Human Specimens Tested	13
Number of Human WNV Cases	0
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 Country MCP	Northeast MA MCP	Pioneer Valley	Plymouth County MCP	SPHL	Suffolk County MCP	Total Tested	
25 (6/16-6/22/2024)	80	20	43	119	0	27	27	63	47	21	322	11	780	
26 (6/23-06/29/2024)	47	22	50	89	0	9	22	23	33	14	145	9	463	
27 (06/30-07/06/2024)	43	28	58	107	5	13	30	35	46	9	88	15	477	
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)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	205	94	223	387	11	104	79	156	168	157	845	51	2480	

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

**Cumulative Confirmed and Probable Human Chikungunya Virus Infections and Dengue Fever Cases
Reported in Massachusetts by County of Residence, 2024**
(These data are current as of 7/15/2024 and are subject to change)

County	Chikungunya virus infection	Dengue Fever
Barnstable	1	1
Berkshire	0	0
Bristol	0	0
Dukes	2	0
Essex	0	4
Franklin	0	0
Hampden	0	0
Hampshire	0	2
Middlesex	8	15
Nantucket	0	0
Norfolk	0	10
Plymouth	0	1
Suffolk	3	22
Worcester	1	6
Total	15	61

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