

Massachusetts Department of Public Health

Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH reported 15 EEE positive mosquito samples, from Barnstable and Plymouth Counties. Risk levels in the region are elevated. MDPH also reported 48 WNV mosquito samples collected this season. 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 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 30 (Sunday, 07/21/2024-Saturday, 07/27/2024)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	3992
Number of WNV Positive Samples	48
Number of EEE Positive Samples	15
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	42
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 County MCP	Northeast MA MCP	Pioneer Valley	Plymouth County MCP	SPHL	Suffolk County MCP	Total Tested
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)	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
Total	275	150	345	611	20	184	139	222	292	322	1310	122	3992

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 7/29/2024 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	16
Nantucket	0	0
Norfolk	0	10
Plymouth	0	2
Suffolk	3	25
Worcester	1	8
Total	15	68

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