

Massachusetts Department of Public Health Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH reported the first WNV human case of 2022, a woman in her 70's with encephalitis. Additionally, MDPH reports 54 WNV positive mosquito samples from Barnstable, Bristol, Dukes, Essex, Middlesex, Norfolk, Plymouth, Suffolk and Worcester Counties. WNV risk levels have been increased to moderate for communities in Dukes, Middlesex, Norfolk and Suffolk Counties. Check your risk levels throughout the season by visiting our interactive site <https://www.mass.gov/info-details/massachusetts-arbovirus-update>

Regional drought and above average temperatures has reduced populations of EEE mosquito vectors while supporting increased populations of WNV vectors. Intense local precipitation events may increase some vector species. 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 2022 MDPH Surveillance and Response Plan for updates to risk levels and risk messaging. <https://www.mass.gov/doc/2022-arbovirus-surveillance-and-response-plan/download>

WNV and EEE Virus Surveillance Summary	
Results contained in this report reflect data inclusive of MMWR Week 34 (Sunday, 08/21/2022-Saturday, 08/27/2022)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	4733
Number of WNV Positive Samples	54
Number of EEE Positive Samples	0
Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	3
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	102
Number of Human WNV Cases	1
Number of Human EEE Cases	0

Summary of 2022 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	SLI	Suffolk County MCP	Total Tested
30 (07/24-07/30/2022)	30	29	79	92	4	41	9	25	21	40	68	7	445
31 (07/31-08/06/2022)	32	29	75	77	6	16	17	29	26	44	99	10	460
32 (08/07-08/13/2022)	24	33	57	83	2	20	8	19	11	39	51	4	351
33 (08/14-08/20/2022)	16	20	41	69	2	13	11	21	13	37	68	4	315
34 (08/21-08/27/2022)	11	17	30	61	3	9	13	21	9	20	75	5	274
Total	271	229	579	988	27	155	209	195	231	334	1426	89	4733

**Cumulative Confirmed and Probable Human Chikungunya Virus Infections and Dengue Fever Cases
Reported in Massachusetts by County of Residence, 2022**
(These data are current as of 08/30/2022 and are subject to change)

County	Chikungunya virus infection	Dengue Fever
Barnstable	0	0
Berkshire	0	0
Bristol	0	0
Dukes	0	0
Essex	0	0
Franklin	0	0
Hampden	0	0
Hampshire	0	0
Middlesex	0	0
Nantucket	0	0
Norfolk	0	0
Plymouth	0	0
Suffolk	0	0
Worcester	0	0
Total	0	0

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