Massachusetts Department of Public Health
Arbovirus Surveillance Program Report

Key Public Risk Communication Messages for This Week:

MDPH has detected EEE in mammal biting mosquito samples in Plymouth County collected from Carver on 7/13 and Middleborough on 7/21. Risk levels in Carver, Middleborough, and Plympton have been raised to Moderate. EEE positive mosquito samples have also been detected in Franklin County from Orange and Wendell. The majority of EEE detections in 2020 have been found in *Cq perturbans*, a mammal biting mosquito involved in the transmission to humans. MDPH will continue enhanced surveillance activities in Franklin and Plymouth counties. 2019 was likely the first year of a two to three-year EEE outbreak cycle. West Nile virus positive mosquitoes have been detected in Belmont, Boston, Brookline, Medford, and Newton. Intense regional precipitation events coupled with warm weather are expected to increase abundance of mosquito vectors for both EEE and WNV.

Recommended public health measures include raising awareness among residents and reminding them that it is important to use mosquito repellents with an EPA-registered active ingredient, use long sleeves and pants to reduce exposed skin and be aware of mosquito activity.

Check your risk levels throughout the season by visiting our interactive site https://www.mass.gov/info-details/massachusetts-arbovirus-update

Establish good mosquito avoidance habits now

• Teach children to be aware of mosquito activity around them and avoid it	
• Pick a repellent with an EPA-approved active ingredient	• Use long sleeves to cover up when possible
• Remove standing water to help reduce mosquito populations	• Repair screens

Several 30 second PSA videos are available for download and use on your website to help promote prevention activities to your residents. These can be found at www.mass.gov/mosquitoesandticks

NOTE: Zika virus continues to be spread in Africa, Asia, the Caribbean, Central and South America, India, and Mexico. The mosquitoes that spread this disease are active during the day.

Travelers who are pregnant or part of a couple planning on becoming pregnant soon are advised not to travel to areas with ongoing Zika virus transmission. The most current information about locations at risk can be found here https://wwwnc.cdc.gov/travel/page/zika-information. If residents choose to travel, prevent mosquito exposure by: using EPA registered mosquito repellents, cover exposed skin by wearing long-sleeved shirts and pants, stay in places with screens and air-conditioning, or sleep under mosquito netting.

In order to avoid sexual transmission of Zika virus from a partner who has recently traveled to an area where Zika transmission is occurring, abstain from sexual contact or use condoms consistently and correctly during all sexual activity. Talk to your healthcare provider for more information.

WNV and EEE Virus Surveillance Summary Results contained in this report reflect data inclusive of MMWR Week 30 (Sunday, 07/19/2020– Saturday, 07/25/2020)	
Mosquito Surveillance	
Number of Mosquito Samples Tested	**3034**
Number of WNV Positive Samples	**13**
Number of EEE Positive Samples	**11**

Equine/Mammal Surveillance	
Number of Mammal Specimens Tested	3
Number of WNV Positive Horses	0
Number of EEE Positive Horses	0
Number of other EEE Positive Mammals	0
Human Surveillance	
Number of Human Specimens Tested	54
Number of Human WNV Cases	0
Number of Human EEE Cases	0

Summary of 2020 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
25 (6/14-6/20/2020)	13	13	23	37	0	0	26	11	5	15	42	0	185
26 (6/21-6/27/2020)	21	15	33	70	0	11	22	12	26	23	149	5	387
27 (6/28-7/4/2020)	21	21	49	80	0	9	36	15	31	30	202	9	503
28 (7/5-7/11/2020)	21	18	59	40	2	47	36	21	40	25	167	11	487
29 (7/12-7/18/2020)	29	33	59	111	2	97	43	29	40	86	259	7	795
29 (7/19-7/25/2020)	34	28	48	126	3	39	49	14	28	44	254	10	677
Total	139	128	271	464	7	203	212	102	170	223	1073	42	3034

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, 2020

(These data are current as of 07/25/2020 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.