

# Massachusetts Department of Public Health Arbovirus Surveillance Program Report

## Key Public Risk Communication Messages for This Week:

Due to extensive EEE activity in Plymouth County, MDAR and MDPH are pursuing aerial adulticiding beginning on 8/10. Additional details can be found here <https://massnrc.org/spray-map/Region/Map/1026> MDPH has detected a EEE human case residing in Plymouth county with an onset date of 7/20. To date MDPH has 46 isolations of EEE in mosquito samples throughout Plymouth County. Risk levels have been raised throughout the region. 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 Middlesex 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. The first WNV human case was identified on 8/7/20. Risk levels have been raised in these regions. 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](http://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.

<b>WNV and EEE Virus Surveillance Summary</b>	
Results contained in this report reflect data inclusive of MMWR Week 32 (Sunday, 08/02/2020– Saturday, 08/08/2020)	
<b>Mosquito Surveillance</b>	
<b>Number of Mosquito Samples Tested</b>	<b>4725</b>
<b>Number of WNV Positive Samples</b>	<b>30</b>

<b>Number of EEE Positive Samples</b>	<b>40</b>
<b>Equine/Mammal Surveillance</b>	
<b>Number of Mammal Specimens Tested</b>	6
<b>Number of WNV Positive Horses</b>	0
<b>Number of EEE Positive Horses</b>	0
<b>Number of other EEE Positive Mammals</b>	0
<b>Human Surveillance</b>	
<b>Number of Human Specimens Tested</b>	83
<b>Number of Human WNV Cases</b>	1
<b>Number of Human EEE Cases</b>	1

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 County MCP	Northeast MA MCP	Pioneer Valley	Plymouth County MCP	SLI	Suffolk County MCP	Total Tested
28 (7/15-7/11/2020)	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
30 (7/19-7/25/2020)	34	28	48	126	3	39	49	14	28	44	254	10	677
31 (7/26-8/01/2020)	26	44	75	122	3	44	53	18	31	71	332	11	830
32 (8/02-8/08/2020)	30	47	72	116	5	57	60	41	40	72	254	67	861
<b>Total</b>	195	219	418	702	15	304	325	161	241	366	1659	120	4725

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 08/08/2020 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
<b>Total</b>	<b>0</b>	<b>0</b>