## Massachusetts Department of Public Health Arbovirus Weekly Report

## Week of July 8, 2024

#### *For additional information* regarding this report, Please contact Ryan McGeown-Conron, DPH Acting Director of Legislative Affairs <u>Ryan.c.mcgeown-conron@mass.gov</u>

Background information on West Nile virus (WNV) and eastern equine encephalitis (EEE) virus and the Department of Public Health's current surveillance and response activities is available through <a href="http://www.mass.gov/dph/mosquito">www.mass.gov/dph/mosquito</a>.

Additionally, please find videos regarding mosquitoes and ticks and how best to protect yourself. Please feel free to share these resources with your constituents: <u>www.mass.gov/MosquitoesAndTicks</u>.

	Season Total	Total Positive
Number of Mosquito Samples	1720	WNV – 2
Tested		EEE – 6
Number of Animals Tested	1	WNV – 0
		EEE – 0
Number of People Tested	17	WNV – 0
-		EEE – 0

### Key Talking Points for the public for the week of July 8, 2024:

- On 7/3/24, DPH detected six positive EEE mosquito samples in Plymouth County including two mammal biting species and four bird biting species. Risk levels have been elevated in the region, a press release was issued, and widescale notification to impacted communities occurred.
- On 7/2/24, DPH has detected two positive WNV mosquito samples in Norfolk County.
- DPH began statewide mosquito testing on June 17<sup>th</sup>, 2024.
- On June 24, 2024, Rhode Island reported detection of two EEE mosquito samples. MDPH intensified surveillance adjacent to the RI border.
- In 2023, intense EEE activity was detected in RI and CT. MDPH detected 28 EEE mosquito samples late in the arbovirus season.
- 2019 was the first year of a two-year outbreak cycle and was the most active EEE year in Massachusetts since the 1950s. There were 12 human cases with 6 deaths and nine animal cases. Six aerial sprays were conducted to reduce risk from EEE.
- In 2023 MDPH identified five WNV human cases and 164 WNV positive mosquito samples.
- DPH began early season EEE surveillance in mid-May and continues surveillance activities this week to monitor for viral activity. Results from trapping and testing mosquitoes are critical to understanding how rapidly the viruses might emerge this year and how widespread it might become.
- DPH has been working since the end of the last season with partners and stakeholders, most significantly the Massachusetts Department of Agricultural Resources, to plan and prepare for this season.

- 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 around you.
- Regional precipitation events coupled with warm weather are expected to increase abundance of mosquito vectors for both EEE and WNV.
- Check your risk levels throughout the season by visiting <u>www.mass.gov/dph/mosquito</u>.
- Most human cases of WNV and EEE occur in the months of August and September.
- Remember that 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.
  - Pick a repellent with an EPA-registered active ingredient;
  - Use long sleeves to cover up when possible;
  - Repair screens;
  - Remove standing water to help reduce mosquito populations; and
  - Teach children to be aware of mosquito activity around them and avoid it.

### Interactive EEE and WNV Mapping

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

## **EEE/WNV Risk Levels**

	Key to Color Coding on EEE Risk Map			
Risk	What it Means	What You Can Do		
Remote	EEE is not usually found in your area	TO Prepare     Know your risk – check regularly at www.mass.gov/dph/mosquito     Repair screens		
Low	EEE may occur in your area	<ul> <li>TO Prevent</li> <li>Wear mosquito repellent between dusk to dawn</li> <li>Wear long sleeves and long pants from dusk to dawn</li> <li>Use mosquito netting on baby carriages and playpens</li> </ul>		
Moderate	EEE occurred in your area within the last year AND/OR there is EEE in mosquitoes in your area now	<ul> <li>TO Prevent - add this</li> <li>Wear mosquito repellent when outdoors, especially between dusk and dawn</li> <li>Avoid outside areas with obvious mosquito activity</li> </ul>		
High	Conditions likely to lead to infection of a person with EEE are occurring in your area	<ul> <li>TO Prevent - add this</li> <li>Adjust outdoor activity to avoid peak mosquito hours (from dusk to dawn)</li> <li>Avoid overnight camping, particularly near freshwater swamps where EEE activity is most likely</li> </ul>		
Critical	Excessive risk from EEE virus exists, a person with EEE infection has been identified in your area	<ul> <li>TO Prevent – add this</li> <li>Cancel or reschedule outdoor gatherings, organized sporting events, etc. to avoid peak mosquito hours (dusk to dawn)</li> </ul>		

	Key to Color Coding on WNV Risk Map			
Risk	What it Means	What You Can Do		
Low	Infection with WNV is unlikely	<ul> <li>TO Prepare</li> <li>Know your risk – check regularly at www.mass.gov/dph/mosquito</li> <li>Repair screens</li> <li>Cleanup to get rid of mosquito breeding sites</li> <li>Be aware of stagnant water on private property (e.g. unused swimming pools) and consult the local board of health.</li> <li>TO Prevent</li> <li>Wear mosquito repellent between dusk to dawn</li> <li>Wear long sleeves and long pants from dusk to dawn</li> <li>Use mosquito netting on baby carriages and playpens</li> </ul>		
Moderate	People with WNV infection have been found in your area	<ul> <li>TO Prevent – add this</li> <li>Wear mosquito repellent</li> <li>Wear long sleeves and long pants when weather permits</li> <li>Use mosquito netting on baby carriages and playpens</li> <li>Dump standing water twice weekly</li> </ul>		
High	More people may get infected with WNV in your area	<ul> <li>TO Prevent – add this</li> <li>People over 50 or those who are immune compromised should adjust outdoor activity to avoid peak mosquito hours (from dusk to dawn)</li> </ul>		
Critical	Unusually high risk from WNV exists	TO Prevent – add this <ul> <li>Situation specific recommendations will be made</li> </ul>		

## EEE Summary by County As of: 7/8/24

*Note:* Municipalities start the season at remote, low or moderate risk depending upon historical EEE activity:

			Human	
County	Towns at Critical risk	Towns at High risk	Cases	Cases
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

# WNV Summary by County As of: 7/8/2024

*Note:* All municipalities start the season at low risk for WNV:

County	Towns at Critical risk	Towns at High risk	Human Cases	Animal Cases
County	Towns at Critical risk	Towns at high risk	Cases	Cases
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

## Below are important steps families and individuals can take in protecting themselves and their loved ones from illnesses caused by mosquitoes:

Avoid Mosquito Bites

- <u>Apply Insect Repellent when Outdoors</u>. Use a repellent with DEET (N, N-diethyl-m-toluamide), permethrin, picaridin (KBR 3023), oil of lemon eucalyptus [p-methane 3, 8-diol (PMD)] or IR3535 according to the instructions on the product label. DEET products should not be used on infants under 2 months of age and should be used in concentrations of 30% or less on older children. Oil of lemon eucalyptus should not be used on children under 3 years of age.
- <u>Be Aware of Peak Mosquito Hours</u>. The hours from dusk to dawn are peak biting times for many mosquitoes. Consider rescheduling outdoor activities that occur during evening or early morning.
- <u>Clothing Can Help Reduce Mosquito Bites</u>. Wearing long-sleeves, long pants and socks when outdoors will help keep mosquitoes away from your skin.

Mosquito-Proof Your Home

- <u>Drain Standing Water</u>. Mosquitoes lay their eggs in standing water. Limit the number of places around your home for mosquitoes to breed by either draining or discarding items that hold water. Check rain gutters and drains. Empty any unused flowerpots and wading pools, and change water in birdbaths frequently.
- <u>Install or Repair Screens</u>. Keep mosquitoes outside by having tightly-fitting screens on all of your windows and doors.

## More information is available on the DPH website:

<u>www.mass.gov/dph/mosquito</u>. Information about WNV and Eastern Equine Encephalitis (EEE) is also available by calling the Epidemiology Program at 617-983-6800.

Also, please find videos regarding mosquitoes and ticks and how best to protect yourself to share with your constituents: <u>www.mass.gov/MosquitoesAndTicks</u>.