

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
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Maura T. Healey
Governor

Kimberley Driscoll
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Kiame Mahaniah, MD, MBA
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Robert Goldstein, MD, PhD
Commissioner

August 15, 2025

Timothy Carroll
House Clerk
State House Room 145
Boston, MA 02133

Michael Hurley
Senate Clerk
State House Room 335
Boston, MA 02133

Dear Mr. Clerk,

Please find the weekly statewide Department of Public Health (DPH) arbovirus report for the **week of August 15, 2025**. This report outlines the risk levels for municipalities based on both historical prevalence and recent activity of Eastern Equine Encephalitis (EEE) and West Nile Virus (WNV), including information on the most recent WNV human cases.

Sincerely,

A handwritten signature in black ink, appearing to be "R. Goldstein", written over the printed name and title.

Robert Goldstein, MD, PhD
Commissioner
Department of Public Health

Massachusetts Department of Public Health

Arbovirus Weekly Report

Week of August 11, 2025

For additional information regarding this report,
Please contact Ryan McGeown-Conron, DPH Director of Legislative Affairs
Ryan.c.mcgeown-conron@mass.gov

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 www.mass.gov/dph/mosquito.

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

	Season Total	Total Positive
Number of Mosquito Samples Tested	5850	WNV – 135 EEE – 7
Number of Animals Tested	4	WNV – 1 EEE – 0
Number of People Tested	87	WNV – 0 EEE – 0

Key Talking Points for the public for the week of August 11, 2025:






- DPH identified 7 EEE positive mosquitoes in Bristol, Hampshire, and Plymouth Counties. Risk levels have been elevated to moderate in these areas.
- DPH identified one WNV positive Goat from Worcester County on 7/15, and increased risk levels to moderate in the area.
- DPH identified 135 WNV positive mosquito samples in Barnstable, Berkshire, Bristol, Dukes, Essex, Franklin, Hampden, Hampshire, Middlesex, Norfolk, Plymouth, Suffolk, and Worcester Counties. Risk levels have been elevated in these areas.
- In 2024, DPH identified four EEE human cases, four EEE animal cases, and 97 EEE mosquito samples. Due to intensive EEE activity, aerial spraying occurred in Plymouth County, and ground spraying was performed in Worcester County
- Historical aerial and ground spray maps are available here: <https://massnrc.org/spray-map/Region/List>
- 2024 was the first EEE outbreak year since the 2019 – 2020 EEE cycle. 2019 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 the risk from EEE.
- In 2024, DPH identified 18 WNV human cases and 333 positive WNV mosquito samples
- DPH began early season EEE surveillance in mid-May and continues surveillance activities this week to monitor arboviral 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, including the Massachusetts Department of Agricultural Resources, to 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 the abundance of mosquito vectors for both EEE and WNV.
- Most human cases of WNV and EEE occur in August and September.
- Arbovirus prevention resources and risk levels are available here: www.mass.gov/dph/mosquito.
- Remember that several 30 second PSA videos are available for download to promote prevention activities to our 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 <https://www.mass.gov/info-details/massachusetts-arbovirus-update>

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 <ul style="list-style-type: none"> Know your risk – check regularly at www.mass.gov/dph/mosquito Repair screens
Low 	EEE may occur in your area	TO Prevent <ul style="list-style-type: none"> Wear mosquito repellent between dusk to dawn Wear long sleeves and long pants from dusk to dawn Use mosquito netting on baby carriages and playpens
Moderate 	EEE occurred in your area within the last year AND/OR there is EEE in mosquitoes in your area now	TO Prevent – add this <ul style="list-style-type: none"> Wear mosquito repellent when outdoors, especially between dusk and dawn Avoid outside areas with obvious mosquito activity
High 	Conditions likely to lead to infection of a person with EEE are occurring in your area	TO Prevent – add this <ul style="list-style-type: none"> Adjust outdoor activity to avoid peak mosquito hours (from dusk to dawn) Avoid overnight camping, particularly near freshwater swamps where EEE activity is most likely
Critical 	Excessive risk from EEE virus exists, a person with EEE infection has been identified in your area	TO Prevent – add this <ul style="list-style-type: none"> Cancel or reschedule outdoor gatherings, organized sporting events, etc. to avoid peak mosquito hours (dusk to dawn)

Key to Color Coding on WNV Risk Map		
Risk	What it Means	What You Can Do
Low 	Infection with WNV is unlikely	TO Prepare <ul style="list-style-type: none"> Know your risk – check regularly at www.mass.gov/dph/mosquito Repair screens Cleanup to get rid of mosquito breeding sites Be aware of stagnant water on private property (e.g. unused swimming pools) and consult the local board of health. TO Prevent <ul style="list-style-type: none"> Wear mosquito repellent between dusk to dawn Wear long sleeves and long pants from dusk to dawn Use mosquito netting on baby carriages and playpens
Moderate 	People with WNV infection have been found in your area	TO Prevent – add this <ul style="list-style-type: none"> Wear mosquito repellent Wear long sleeves and long pants when weather permits Use mosquito netting on baby carriages and playpens Dump standing water twice weekly
High 	More people may get infected with WNV in your area	TO Prevent – add this <ul style="list-style-type: none"> People over 50 or those who are immune compromised should adjust outdoor activity to avoid peak mosquito hours (from dusk to dawn)
Critical 	Unusually high risk from WNV exists	TO Prevent – add this <ul style="list-style-type: none"> Situation specific recommendations will be made

EEE Summary by County

As of: 8/11/25

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

County	Towns at Critical risk	Towns at High risk	Human Cases	Animal 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: 8/11/2025

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

County	Towns at Critical risk	Towns at High risk	Human Cases	Animal 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	1
Total:			0	1

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

Avoid Mosquito Bites

- Apply Insect Repellent when Outdoors. 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.
- Be Aware of Peak Mosquito Hours. The hours from dusk to dawn are peak biting times for many mosquitoes. Consider rescheduling outdoor activities that occur during evening or early morning.
- Clothing Can Help Reduce Mosquito Bites. Wearing long-sleeves, long pants and socks when outdoors will help keep mosquitoes away from your skin.

Mosquito-Proof Your Home

- Drain Standing Water. 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.
- Install or Repair Screens. Keep mosquitoes outside by having tightly-fitting screens on all of your windows and doors.

More information is available on the DPH website:

www.mass.gov/dph/mosquito. 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: www.mass.gov/MosquitoesAndTicks.