

Commonwealth of Massachusetts
State Reclamation and Mosquito Control Board



**Northeast Massachusetts Mosquito Control and
Wetlands Management District**

Kelsey Liakos – Communications Liaison

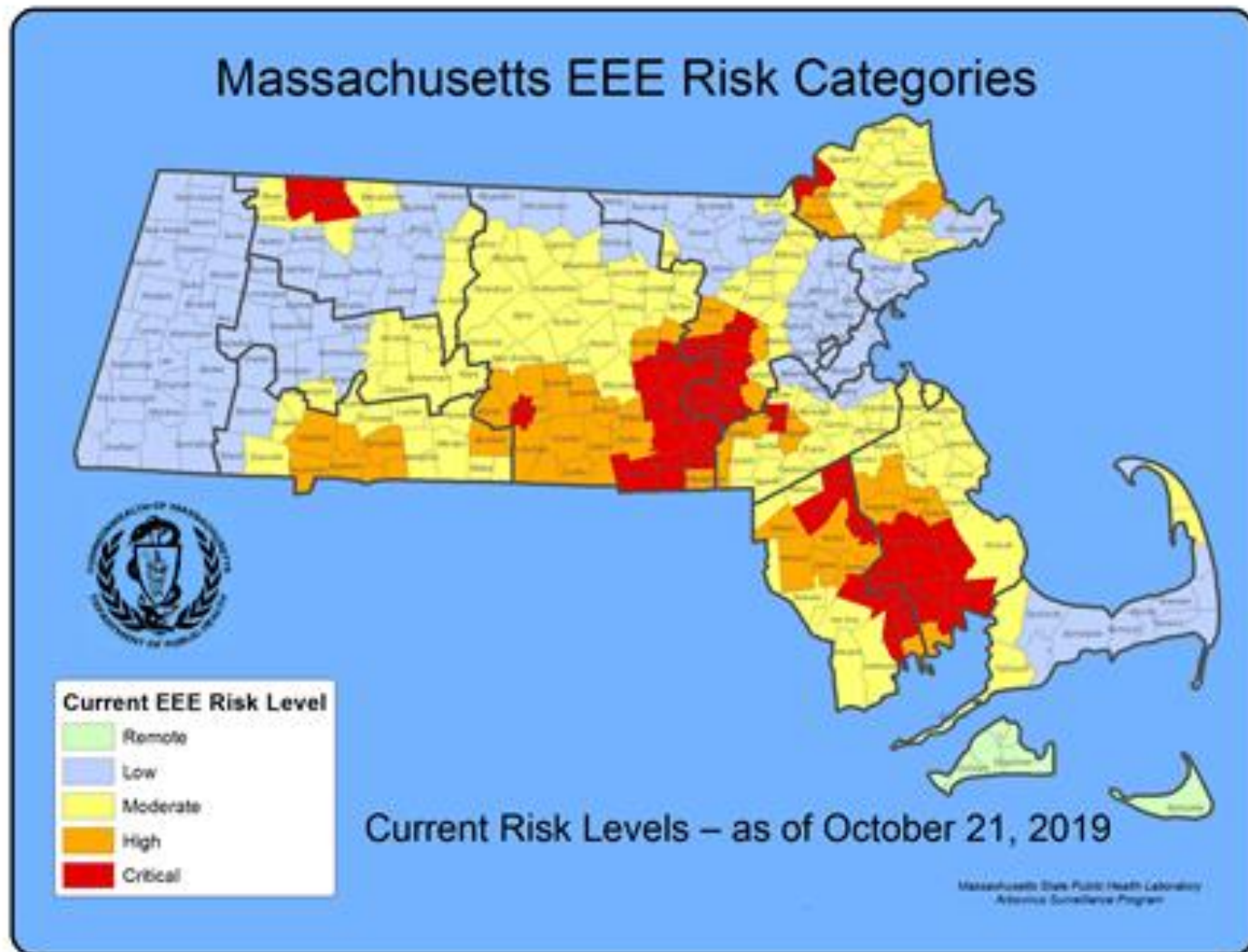
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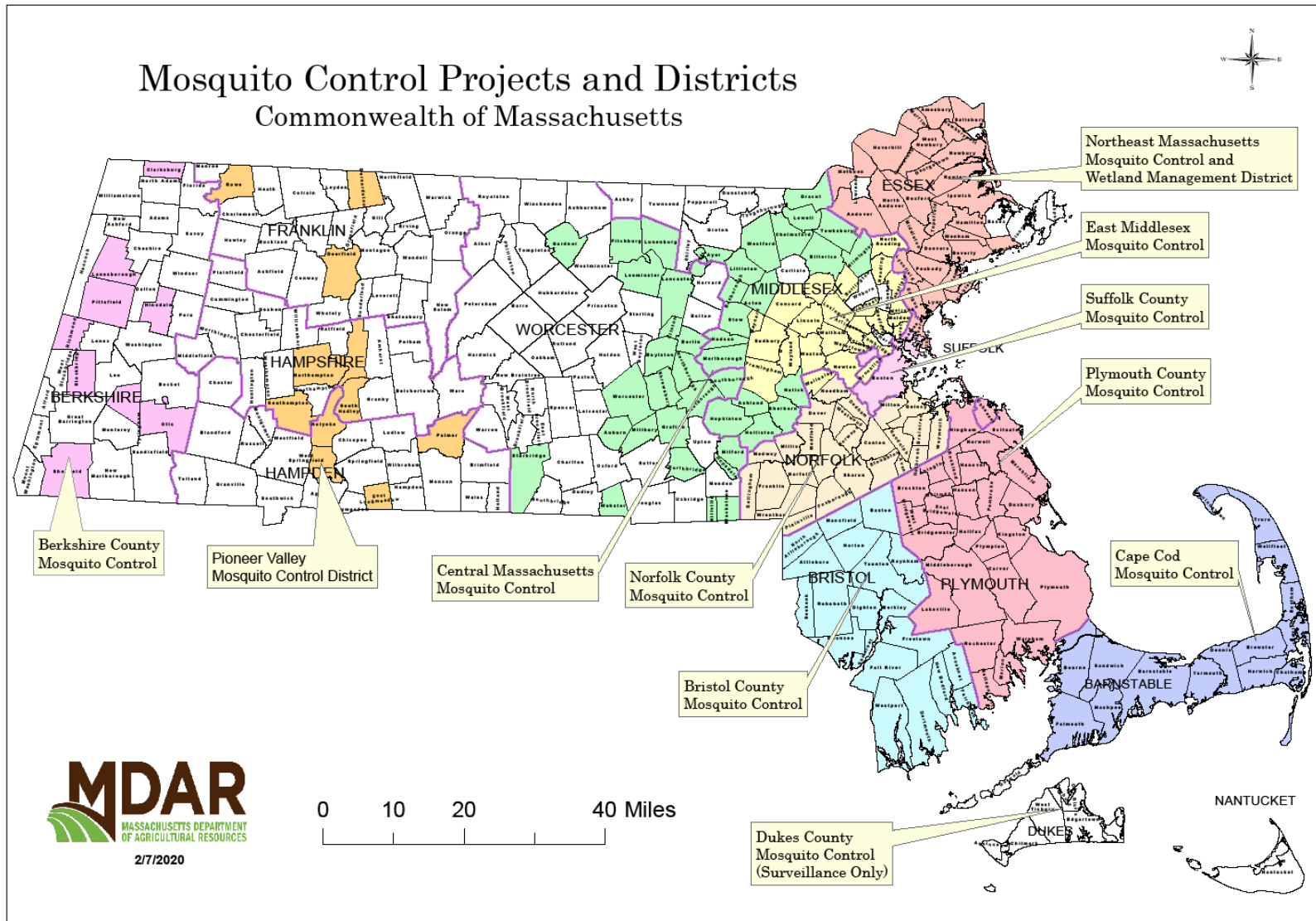
118 Tenney Street
Georgetown, MA 01833
Phone: (978) 352-2800

www.nemassmosquito.org

Massachusetts EEE Risk Level Map as of October 21st, 2019



Map of the Mosquito Control Districts in Massachusetts



2019 Arbovirus District Summary

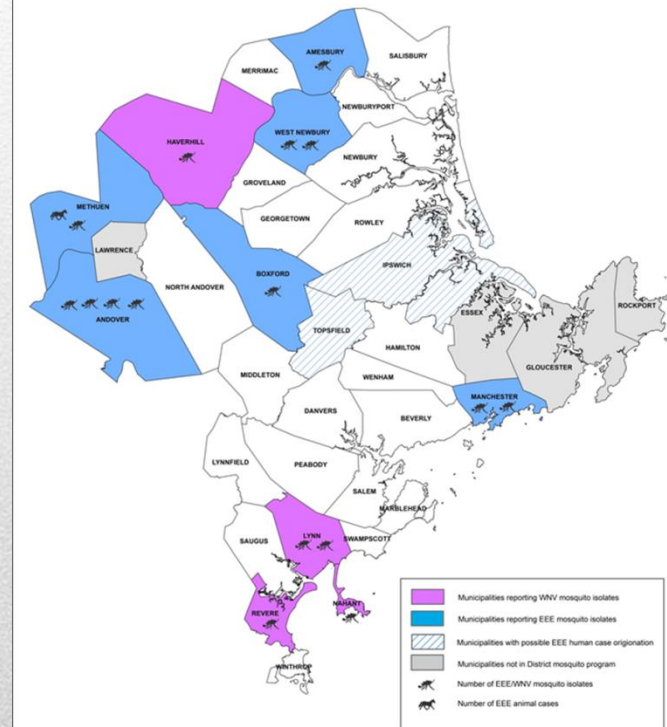
EEE Activity

- 11 positive mosquito pools
- 6 municipalities had EEE positive mosquito isolates (Andover, Boxford, Methuen, West Newbury, Manchester, and Amesbury)
- 1 EEE human case
- 1 EEE horse case

WNV Activity

- 5 positive mosquito pools
- 4 municipalities had WNV positive mosquito isolates (Lynn, Nahant, Revere, and Haverhill)
- No WNV human/animal cases in the district for 2019

Figure 21. NEMMC Municipalities Reporting WNV/EEE Isolations in 2019



2019 District Activity Summary

District Summary of Activities

- 63,083 catch basins treated
- 2,554.05 lbs of larvicide
- 2,790 gallons of larvicide applied from aerial larvicing
- 270.3 gallons of adulticide
- 6.625 gallons of pesticide for barrier treatment

District Adulticide Activity

- Emergency block/targeted adulticide: Andover, Methuen, West Newbury, Georgetown, Groveland
 - Emergency town-wide adulticides: Manchester, Ipswich, Amesbury, Topsfield
-

Services and Control Measures

- Regional Adult Mosquito Surveillance
- Larviciding – Ground and Aerial (salt marsh)
- Catch Basin Treatments
- Property Inspections
- Truck-based ULV Adulticiding
- Barrier Treatments
- Tire Recycling Program
- Wetlands Management
- Greenhead Program
- NEMMC website



Regional Adult Mosquito Surveillance

- Monitor your town's mosquito activity
- Virus testing every week
- Supplemental trapping



Gravid Trap



CDC CO2/Light Trap

Supplemental Trapping

- **After the 1st positive WNV/EEE vector species**, portable traps are deployed where infected mosquitoes have been collected
- Supplemental traps are set based on a number of factors (not limited to):
 - Radius of collection
 - Distance from historic trap
 - Topography
 - Historic virus cases
 - Human population density
 - Breeding sites
 - Recreation areas/ schools/ parks
 - Surrounding wetlands



Larviciding

- Preventative treatment that kills mosquitoes in larval form
- Regional Aerial Salt Marsh Larviciding Program
 - Ipswich to the New Hampshire border (~3,500 acres)
- Freshwater wetlands – historic and new sites
- Retention ponds, ditches, containers
- Abandoned properties (swimming pools)



Catch Basin Treatments

- Another form of larviciding
- Hand treat
- Primary breeding area for *Culex pipiens* and *Culex restuans* – both vectors for WNV
- Cost effective and long term control over WNV



Property Inspections

- Inspection of a property for mosquito breeding areas, treating if needed
- Resident or Board of Health request
- Non-regulatory agency



Abandoned swimming pool

Adulticiding

- Adulticiding is the control of adult flying mosquitoes
- Truck-based Ultra Low Volume (ULV)
- Final measure to reduce risk of WNV/EEE infections
- Targeted adulticide in virus response
- Not a preventative – only affects mosquitoes flying
 - 1/3 of district allow residents to request
 - 1/3 of district allow Board of Health to request
 - 1/3 of district allow for virus response only



Barrier Treatment

- Application of a product that forms a physical barrier preventing mosquitoes from entering an area
- Truck-based treatment
- Acts as a barrier for flying mosquitoes
- 90-day and 30-day residual to protect public areas such as schools, parks, and recreation areas



Truck applying barrier treatment
at dusk

Tire Recycling Program

- Tires without rims are an ideal breeding site for several species of mosquitoes, especially disease vectors
- NEMMC to assist with the collection and disposal of discarded tires
 - Abandoned outdoors/in wetlands
 - Municipal Hazardous Waste Days (education/outreach)



Tire collection in Groveland

Wetlands Management

- Stagnant water is an ideal breeding site for mosquitoes
- NEMMC completes hand and mechanized ditch maintenance to increase water flow = decrease mosquito populations
 - no pesticides applied



Before




After

Greenhead Program


- NEMMC is thrilled to have Essex be a part of the Greenhead Program!




NEMMC Website



Northeast Massachusetts
Mosquito Control and
Wetlands Management District

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Announcements

- Facts on Mosquito Activity and Mosquito-borne Diseases in MA 2018
- An important discussion on the mosquito ...
- Reduce Mosquito Breeding Sites Around Your Home
- Mosquitoes can breed in interesting places
- Pesticide Exclusion form
- The State of Massachusetts has updated...

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Larvicing by helicopter in Ipswich


Some of our team at the salt marsh larvicide treatment application by helicopter in Ipswich

[More »](#)

Mosquito Control Projects and Districts

The Northeast Massachusetts Mosquito Control and Wetlands Management District represents the mosquito control and wetlands management interests of those communities that choose to subscribe to its services.

Our Mission is to:



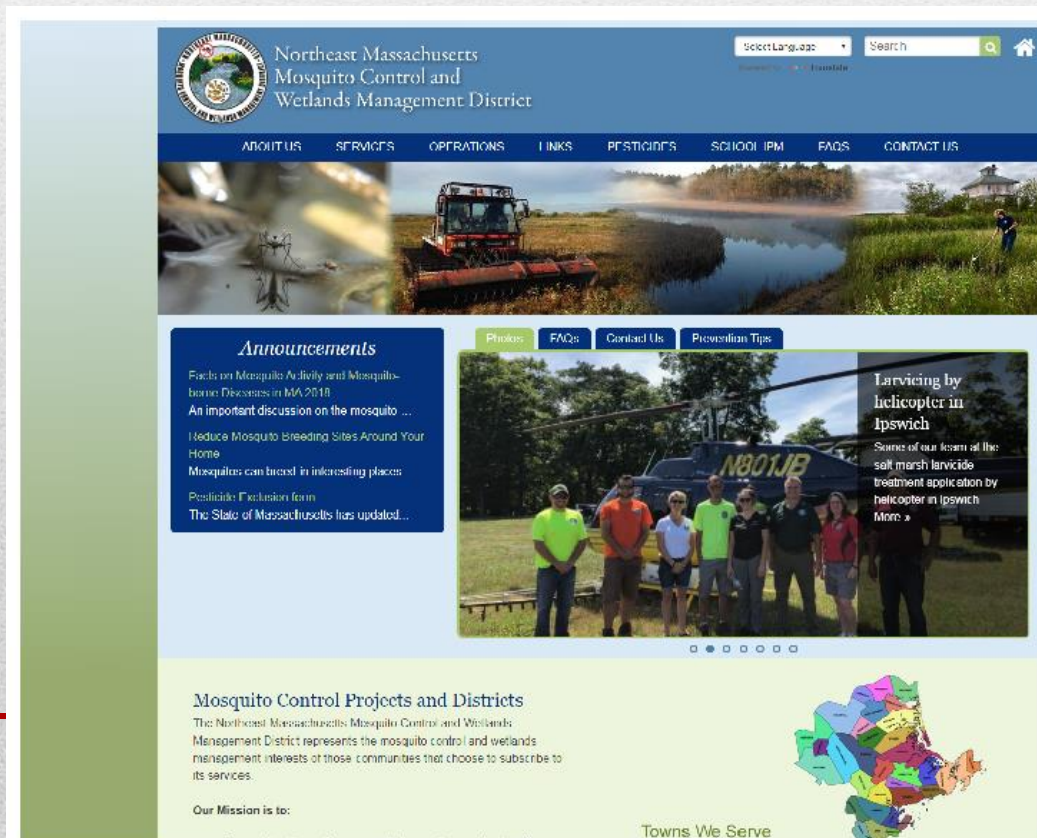
Towns We Serve

NEMMC Website

Municipal Toolbox for Board of Health members

- Prevalent mosquito/virus information
- Virus response plans – risk levels (low-critical)
- BMPs, IPVMP
- Samples of public notice
- School IPM information
- Virus fact sheets
- And more!

**Showcased at the Gould Barn
Meeting in Topsfield, MA on
April 9th at 9am**



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