

Commonwealth of Massachusetts

STATE RECLAMATION AND MOSOUITO CONTROL BOARD

NORTHEAST MASSACHUSETTS MOSQUITO CONTROL AND WETLANDS MANAGEMENT DISTRICT

118 Tenney Street Georgetown, MA 01833 Phone: (978) 352-2800 www.nemassmosquito.org



Operations

Barry Noone: District Director Kimberly A. Foss.: Entomologist Robyn A. Januszewski: GIS/Biologist

Katelynn E. King: Wetlands Project Coordinator

Commissioners

John W. Morris, CHO: *Chair* Vincent J. Russo, MD, MPH: *Vice Chair* Paul Sevigny, RS, CHO Joseph T. Giarrusso, Conservation Officer Rosemary Deci, RS

2022 Best Management Practice Plan Salisbury

FY23 Percentage of assessment allocated to specific measures as prescribed by individual municipalities Best Management Practice (BMP) in the Town of Salisbury

NEMMC is requesting a 3% increase above the FY2022 certified assessment for a FY2023 operational budget. During FY2022 the District reorganized allowing more technicians in the field while maintaining our current staffing level. FY2022 allowed the district the opportunity to replace one of our frontline heavy equipment pieces which was 23 years old. Due to ongoing pandemic challenges, the district was unable to make the vehicle purchases it had intended to keep on schedule with our vehicle and equipment replacement plan. Our FY2023 budget addresses funding for staffing changes, allowing for two vehicle replacements, and to adapt with increased costs of materials, energy, fuel, and pesticides. With the region experiencing environmental changes, it remains challenging to plan for a "normal" year of mosquito control. Often dictated by the weather, mosquito populations, additional treatment for viruses and requests from member municipalities, NEMMC will work diligently to deal with exceptional mosquito nuisance and health issues.

Assessment: As estimated by the Massachusetts Department of Revenue, Division of Local Services, in accordance with Chapter 516 of the General Laws of the Commonwealth. The assessment formula is based on a regional concept, which considers square miles and evaluation. The district offers this breakdown as a general guide to how funds are allocated specific to your community.

FY22 Estimated District Budget for the Town of Salisbury \$ 58,539.00

FY22 State Reclamation and Mosquito Control Board \$ 2,509.00

FY22 Total Estimated Assessment for the Town of Salisbury \$ 61,048.00

District Control Measures specific to Salisbury

General Operational Cost Share
Regional Adult Mosquito Surveillance Program
Regional Aerial Salt Marsh Larviciding Program
Regional Vector / Virus Intervention
Surveillance
Ground Larviciding
Catch Basin Treatments
Manual Ditch Maintenance
Adulticiding (Resident and/or Board of Health requests)
Barrier Treatment (School officials and/or Board of Health requests)
Barrier Treatment (School officials and/or Board of Health requests) Ditch Maintenance / Wetlands Management
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Ditch Maintenance / Wetlands Management Tire Recycling Program
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NOTE: Any adulticiding, larviciding or treatment of catch basins for mosquito control on public school property requires a current IPM (Integrated Pest Management) Plan. We are often asked by local Boards of Health and/or athletic directors to treat ball fields and/or parks that may be owned/used by the school departments, and without an IPM plan that includes our materials we may not be able to assist.

Board of Health Checklist for 2022

☐ Schedule an annual Board of Health meeting/ presentation with NEMMC Note: meetings will only be scheduled between the dates of October 1st - June 1st
☐ Review login information for Municipal Toolbox on NEMMC website Our Liaison, Kelsey will e-mail you the password and login (see contact below)
☐ Update School IPMs to have all current and recently added NEMMC pesticide products Recently added pesticide products include Metalarv XRP and Merus 3.0
☐ Schedule Barrier Treatment for schools, parks, and/or public areas for peak mosquito season Note: scheduled barrier treatments are recommended between July 15th – August 25th
$\hfill \Box$ Check with Department of Public Works for field access for barrier treatments once scheduled
☐ Notify NEMMC with Board of Health contact changes Work phone, cell phone, and email are required of primary and secondary contacts
☐ Review District Phased Response to WNV/EEE Virus Isolations in Integrated Pest and Vector Management Plan (IPVMP)
For any questions on where to find this information, scheduling, and/or how to complete these tasks, pleas reach out to our Board of Health Liaison:
Volcov Linkos Poard of Hoalth Linicon

Kelsey Liakos, Board of Health Liaison

Cell: (978) 992- 6974

Office: (978) 352-2800 Email: Kelsey.liakos@mass.gov

Updated 2022 NEMMC Protocols for District Arboviral Events

Climate change is expected to affect the geographic and seasonal patterns of mosquito-borne diseases in the United States. The northeast is experiencing an increase in precipitation and unusually hot temperatures. Since EEE is more prevalent in wetter years and WNV in hotter years the likeness of the district experiencing EEE and/or WNV events in any given year is possible, in some years both viruses can present substantial risk. The district feels that it is beneficial to our subscribing municipalities to set prevention and response criteria preparing for both mosquito-borne viruses.

District Prevention for WNV and EEE

- Adult mosquito surveillance and DPH virus testing
- Larviciding areas that can promote mosquito breeding including municipal catch basins
- Public notification to use personal protective measures from spring to first hard frost
- Wetlands management and stormwater maintenance
- Property inspections to larvicide standing water and remove containers holding water
- Early barrier treatments for public parks, recreation areas and schools
- Tire disposal program

District Response for WNV and EEE

If risk level increases for municipality but no virus in municipality:

- Public notification to use personal protective measures
- Additional larviciding of freshwater wetlands and flooded areas
- Recommendation for municipality to complete barrier treatments

If bird biting mosquitoes in municipality test positive for virus:

- Public notification to use personal protective measures
- Supplemental adult mosquito trapping and additional DPH virus testing in risk areas
- Additional larviciding of freshwater wetlands and flooded areas
- Retreatment of catch basins (if WNV) in focal area
- Retreatment of hummock swamps (if EEE) in focal area

If human biting mosquitoes in municipality test positive for virus:

- Public notification to use personal protective measures Supplemental adult mosquito trapping and additional DPH virus testing in risk areas
- Additional larviciding of freshwater wetlands and flooded areas
- Recommendation for municipality to complete a block adulticide of focal area
- Recommendation for municipality to complete barrier treatments

If mammal or human case of WNV or EEE in municipality:

- Public notification to use personal protective measures
- Supplemental adult mosquito trapping and additional DPH virus testing in risk areas
- Additional larviciding of freshwater wetlands and flooded areas
- Recommendation for municipality to complete a block adulticide of focal area
- Recommendation for municipality to complete barrier treatments

Summary of NEMMC District Operations Completed in Salisbury during 2021

Date Activity Completed

1/11/2021 2021 Integrated Pest and Vector Management Plan published to NEMMC website 1/10 to 1/23/2021 Mowing Beach Road/State Beach Road (10 acres) 2/4/2021 2021 Draft Best Management Plans (BMP) e-mailed to BOH for review 3/26/2021 Tires collected (6)- Hayes Street 3/26/2021 Hand Ditch Maintenance- Hayes Street 257 ft + 1 culverts cleaned 4/10/2021 Larviciding- Learned Lane (8.0 lbs. Vectobac-G) 4/10/2021 Habitat Site Inspections (1) 4/13/2021 Contacted DPW for catch basin cleaning schedule and treatment notification 4/13/2021 Habitat Site Inspections (1) 4/13/2021 Habitat Site Inspections (1) 4/13/2021 Larviciding- Locust Road (1.0 lbs. Vectobac-G) 4/15/2021 Larviciding- Eerry Road, Coulson Pratt, Cable Avenue (15.23 lbs. Vectobac-G) 5/3/2021 Larviciding- Ferry Road, Coulson Pratt, Cable Avenue (15.23 lbs. Vectobac-G) 5/3/2021 Larviciding- Ferry Road, Coulson Pratt, Cable Avenue (15.23 lbs. Vectobac-G) 5/3/2021 Habitat Site Inspections (13) 5/6/2021 Tire collected - Lincoln Avenue (1) 5/12/2021 Larviciding- Locust Street, Bartlett Street Rail Trail (3.78 lbs. Vectobac-G) 6/3/2021 Larviciding- Locust Street, Bartlett Street Rail Trail (3.78 lbs. Vectobac-G) 6/3/2021 Residential Adulticiding Requests completed (19) 6/8/2021 Residential Adulticiding Requests completed (39) 6/14/2021 Resident Request Site Inspection - Gerrish Road 6/14/2021 Resident Request Site Inspection - Old County Road, Trout Way 6/17/2021 Resident Request Site Inspection - Old County Road, Trout Way 6/17/2021 Salt marsh dip station check- pre aerial application 6/22/2021 Salt marsh dip station check- pre aerial application 6/22/2021 Salt marsh dip station check- post aerial application 6/22/2021 Salt marsh dip station check- post aerial application 6/22/2021 Residential Adulticiding Requests completed (38) 7/1/2021 Residential Adulticiding Requests completed (38) 7/1/2021 Residential Adulticiding Requests completed (40), BOH adulticide request (1) 7/19/2021 Residential Adulticiding Requests completed (40), BOH adulticide request (1) 7/28/2		
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7/23/2021 Resident Request Site Inspections and Iarvicide - March Road (2.78 lbs. Vectobac G)	7/19/2021	Resident Request Site Inspections and larvicide - Ferry Road, Samantha Way (7.56 lbs. Fourstar CRG)
	7/22/2021	Residential Adulticiding Requests completed (40), BOH adulticide request (1)
7/28/2021 Residential Adulticiding Requests completed (55)	7/23/2021	Resident Request Site Inspections and larvicide - March Road (2.78 lbs. Vectobac G)
	7/28/2021	Residential Adulticiding Requests completed (55)

7/28/2021	(1) Mosquito batch sent to DPH for EEE/WNV testing- Negative
7/30/2021	Resident Request Site Inspections and larvicide - Seabrook Road, Forest Street (3.37 lbs. VectoMax FG)
8/2/2021	Adulticide Barrier Request completed- Salisbury ES (7.50 oz Suspend Polyzone)
8/5/2021	Residential Adulticiding Requests completed (5)
8/6/2021	Resident Request Site Inspections and larvicide - Lt. Hines Circle (1.32 lbs. VectoMax FG)
8/9/2021	Salt marsh dip station check- pre aerial application
8/10/2021	(1) Mosquito batch sent to DPH for EEE/WNV testing- Negative
8/10/2021	Aerial operation larvicide salt marsh- 450 acres
8/11/2021	Salt marsh dip station check- post aerial application
8/11/2021	Larviciding- Cable Avenue, Coulson Pratt Drive (20.40 lbs. Vectobac-G)
8/12/2021	Residential Adulticiding Requests completed (37)
8/17/2021	(2) Mosquito batch sent to DPH for EEE/WNV testing- Negative
8/18/2021	Residential Adulticiding Requests completed (37)
8/25/2021	Larviciding- Cable Ave, Coulson Pratt (18.50 lbs. Vectobac-G)
8/26/2021	Residential Adulticiding Requests completed (40)
8/26/2021	Larviciding- Ferry Road (21.55 lbs. Vectobac-G)
8/26/2021	Catch basin larviciding (175 VectoMax WSP)
8/27/2021	Catch basin larviciding (629 VectoMax WSP) + Salisbury ES (22 VectoMax WSP)
8/27/2021	Municipal CB completed in Salisbury- 804 total basins treated and 22 total school basins= 826
8/28/2021	Resident Request Site Inspections- Pleasant Street, Beach Road, Friedenfels Street
8/31/2021	(1) Mosquito batch sent to DPH for EEE/WNV testing- Negative
9/2/2021	Residential Adulticiding Requests completed (39)
9/7/2021	Salt marsh dip station check- pre aerial application
9/8/2021	(3) Mosquito batch sent to DPH for EEE/WNV testing- Negative
9/8/2021	Residential Adulticiding Requests completed (35)
9/8/2021	Aerial operation larvicide salt marsh- 100 acres
9/9/2021	Salt marsh dip station check- post aerial application
9/9/2021	Larviciding- Cable Avenue (7.22 lbs. Vectobac-G)
9/14/2021	(2) Mosquito batch sent to DPH for EEE/WNV testing- Negative
9/16/2021	Residential Adulticiding Requests completed (27)
9/21/2021	(1) Mosquito batch sent to DPH for EEE/WNV testing- Negative
9/23/2021	Resident Request Site Inspection- Thomas Morgan Lane
9/28/2021	(1) Mosquito batch sent to DPH for EEE/WNV testing- Negative
10/1/2021	Adult mosquito surveillance and DPH testing concluded for season
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- Salisbury had a total of 548 Residential Adulticide Service Requests in 2021, up from 418 in 2020
- 5 Board of Health adulticide service requests (ULV and/or barrier treatments)
- 15 Residential service requests, up from 8 in 2020

Informing residents that they can contact the district to inspect for standing water and help identify new breeding areas can help reduce mosquito populations.

• 39 Habitat Site Inspections

- Catch basin larviciding was completed on 8/27/2021: 826 total basins were treated (804 municipal + 22 school)
- 1 Residential pesticide exclusion was filed with the district this year from Salisbury
- 257 feet of storm water ditches and 1 culvert was cleared of debris
- 7 Discarded tires were collected for disposal

2021 Salisbury Mosquito & Arbovirus Surveillance Summary

There were no WNV/EEE mosquito isolations, human or animal cases in Salisbury in 2021. At the end of 2021, the arboviral risk level for Salisbury remained at LOW for EEE and LOW for WNV. Risk Categories are described on pages 13, 22, 25 of the 2021 Massachusetts State Arbovirus Surveillance and Response Plan.

Massachusetts DPH assesses arboviral risk levels based on many factors including but not limited to mosquito isolations, locations of acquired veterinary and human infections, virus history locally and in bordering states, weather conditions present and predictions, and current mosquito populations and future trends.

• 12 mosquito pool/batch was sent from Salisbury to the MDPH lab for testing in 2021, all batches tested negative for EEE/WNV.

Mosquito virus isolation history (WNV/EEE) in Salisbury:

Collection Date	Species	Test Type	Result	
8/19/2013	Culex pipiens/restuans complex	WNV	Positive	
8/20/2012	Culex pipiens/restuans complex	WNV	Positive	

Total Mosquito Collected in Salisbury	<u>2020</u>	<u>2021</u>	% Change
Resting Boxes (8)- Bird feeders/EEE primary vectors	31	129	316%
CDC CO2/Light Traps (1) - Mammal feeders/bridge vectors	86	467	443%
Gravid Traps (1)- Bird feeders/WNV primary vectors	7	1	-86%
Totals	124	597	381%

Mosquito Species- pest/disease list- Salisbury	<u>2020</u>	2021	% Change	WNV/EEE +	District Total % Change 2020 to 2021
Culiseta melanura (red maple swamp/acid bog)	0	4	400%	NO	11%
Culex pipiens (container/catch basins/heavy organics)	2	0	-100%	NO	64%
Culex restuans (container/catch basins)	1	3	200%	NO	75%
Culex salinarius (brackish water/phragmites/roadside ditches)	26	283	988%	WNV	747%
Coquillitidia perturbans (cattail)	12	5	-58%	NO	-20%
Aedes vexans (rainwater/fresh floodwater)	0	98	9800%	WNV	1781%
Aedes japonicus (tree hole/container breeder)	4	2	-50%	NO	52%
Aedes sollicitans (salt marsh)	27	17	-37%	NO	824%
Aedes cantator (salt marsh)	17	44	159%	NO	266%
Aedes canadensis (snowmelt/woodland pool)	2	5	150%	NO	588%

WNV/EEE bridge vectors/human biters

• Due to excessive and prolonged rain events during 2021, there was an increase in multiple fresh floodwater species in Salisbury; *Ae. vexans, Ae. canadensis* and *Cx. salinarius*, a brackish water mosquito, increased by a total of 1,279%. The cattail species *Cq. perturbans* have still not recovered from the drought conditions of 2020 and populations continued to decrease in Salisbury by 58% in 2021. Informing residents that they can contact the district to inspect for standing water and help identify new breeding areas can also reduce these populations.

WNV primary vectors/bird biters (*Cx. pipiens/restuans*)

Collections of WNV primary vectors remained unchanged in Salisbury from 2020 to 2021. Timely catch
basin cleaning and treatments helped keep *Culex* mosquito populations in check. <u>Informing residents</u>
that they can contact the district to inspect for standing water and help identify new breeding areas can
also reduce these populations.

EEE primary vectors/bird biters (*Cs. melanura*)

• While 2019 was an unprecedented year for EEE statewide, due to early and sustained drought conditions and anticipatory targeted larviciding activities in the Northeast during 2020 the district saw an 81% decrease in Cs. melanura populations from 2019. In 2021 the average precipitation increased, and the district saw a slight 11% increase from 2020. However, there remains a decrease of 48% from the 10-year mean and 50% from the 5-year. Although Salisbury had an increase in *Cs. melanura* in 2021 of 400%, it will take several years for these populations to recover from the droughts. Only 1 batch of *Cs. melanura* tested positive for WNV in Boxford during 2021. There were no EEE isolates in this species during 2021.

Pest Status salt marsh mosquitoes (*Ae. sollicitans*)

- Ae. sollicitans, a summer-fall salt marsh species, decreased by 267% in Salisbury. However, despite district-wide consistent larviciding and adulticiding, tides, high temperatures, prevailing wind direction, frequent rain and heavy thunderstorm activity caused this mosquito species to become a serious weekly nuisance for the district and its residents throughout 2021. There was a 39% increase in salt marsh mosquitoes in Salisbury this year.
- Salisbury had a total of 3 salt marsh aerial operation larvicide treatments (1,100 acres) during 2021: June 23rd, August 10th, and September 8th (See summary of activities)

With the extensive forested wetlands in nearby southeastern New Hampshire as the focus of EEE virus, and local history of WNV, there will always be concern of transmission and human infection by these viruses here and in all surrounding municipalities. From July through the first hard frost, Salisbury residents should take necessary precautions to reduce the risk of infection from these viruses, regardless of low mosquito populations and/or aggressiveness of control.

<u>A hard, or killing frost</u>, is defined meteorologically as two consecutive hours of temperatures below 28 degrees Fahrenheit or three hours below 32 degrees. This will occur at different times for different communities, and there may even be variation within communities based on local geography. Although mosquitoes are not killed until a hard frost occurs, they are extremely unlikely to be active when temperatures fall below 50 degrees in the evening (Page 15 of the 2021 MA Arbovirus Plan listed below).

Refer to the 2021 Massachusetts State Arbovirus Surveillance and Response Plan viewed online at: https://www.mass.gov/lists/arbovirus-surveillance-plan-and-historical-data

Greenhead Traps: The District deploys, collects, and maintains 40 greenhead traps in Salisbury under the Northshore Greenhead Fly Program appropriation. This is a separate program and is not an expenditure under the Mosquito Control Program estimated assessment.