



**Commonwealth of Massachusetts**  
STATE RECLAMATION AND MOSQUITO CONTROL BOARD

**NORTHEAST MASSACHUSETTS MOSQUITO CONTROL  
AND WETLANDS MANAGEMENT DISTRICT**

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

[www.nemassmosquito.org](http://www.nemassmosquito.org)



Roy E. Melnick: *Executive Director*  
William Mehaffey, Jr.: *Operations Manager*  
Kimberly A. Foss.: *Entomologist*  
Robyn A. Januszewski: *Biologist*

*Commissioners*  
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Paul Sevigny, RS, CHO  
Joseph T. Giarrusso, *Conservation Officer*  
Rosemary Decie, RS

**2020 Best Management Practice Plan  
Andover**

**FY21 Percentage of assessment allocated to specific measures as prescribed by individual municipalities  
Best Management Practice (BMP) in the Town of Andover**

NEMMC is requesting an increase of 6% in the assessment for FY 2021 due to continued increases in operational costs, leasing the facility, purchasing pesticides, vehicle/heavy equipment maintenance and repairs, a cost of living increase, and payroll taxes. The 2019 mosquito season was the worst year in the State of Massachusetts history. This contributed to increased pesticide usage, personnel costs, and equipment upgrades. The District will continue to upgrade its equipment to ensure we are well prepared and operating efficiently, with our primary goal of protecting our subscribing communities from virus. We follow best business practices to reduce mosquito populations on a town wide and regional basis, thus reducing the mosquito virus risk and nuisance to our residents. We look for continued support and understanding from all the communities we serve.

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.

FY21 Estimated District Budget for the Town of Andover	\$ 131,201.00
FY21 State Reclamation and Mosquito Control Board	\$ 5,613.00
FY21 Total Estimated Assessment for the Town of Andover	\$ 136,814.00

**District Control Measures Specific to Andover**

General Operational Cost Share

Regional Adult Mosquito Surveillance Program

Regional Vector / Virus Intervention

Surveillance

Ground Larviciding

Catch Basin Treatments

Manual Ditch Maintenance

Adulticiding (**Virus Intervention ONLY with Board of Health approval**)

Barrier Treatment (**By Board of Health and School Department request only**)

Ditch Maintenance / Wetlands Management

Tire Recycling Program

Property Inspections

Mosquito Habitat Mitigation

Research and Development

Education and Outreach

Social Media

**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.

## 2019 Summary of Activities Completed in Andover by NEMMC

1/24/2019	2019 Integrated Pest and Vector Management Plan published to web
2/19/2019	2019 Draft Best Management Plans (BMP) e-mailed to BOH
4/3/2019	Mosquito Habitat Site Inspections (5)
4/3/2019	2019 Final Best Management Plans (BMP) published to web
4/5/2019	Mosquito Habitat Site Inspections (6)
4/17/2019	Mosquito Habitat Site Inspections (10)
4/25/2019	Mosquito Habitat Site Inspections (9)
4/29/2019	Mosquito Habitat Site Inspections (2)
5/4/2019	Andover Zero Waste Day NEMMC attendance (33 tires collected)
5/8/2019	Mosquito Habitat Site Inspections (5)
5/9/2019	Tire collection on 144 Abbot Street (1 tire)
5/21/2019	Weekly Mosquito Trap Collections CDC/Gravid
5/21/2019	Mosquito Habitat Site Inspections (4)
5/21/2019	Larviciding - Salem Street (1.0 lb Vectobac G)
5/28/2019	Weekly Mosquito Trap Collections CDC/Gravid
6/4/2019	Weekly Mosquito Trap Collections CDC/Gravid
6/11/2019	Weekly Mosquito Trap Collections CDC/Gravid
6/18/2019	Weekly Mosquito Trap Collections CDC/Gravid
6/24/2019	BOH Site Inspection and Larvicide Request-Historic Society Main Street (2 Natular DT tabs)
6/25/2019	Weekly Mosquito Trap Collections CDC/Gravid
7/2/2019	Weekly Mosquito Trap Collections CDC/Gravid
7/9/2019	Weekly Mosquito Trap Collections CDC/Gravid
7/16/2019	Weekly Mosquito Trap Collections CDC/Gravid
7/18/2019	Resident Site Inspection and Larvicide Request - Sheridan Road (1.02 lbs Fourstar Bti-CRG)
7/23/2019	Weekly Mosquito Trap Collections CDC/Gravid
7/24/2019	School Catch Basin Larvicide Completed
7/29/2019	Catch Basin Larvicide Completed (4,418 total basins)
7/30/2019	Weekly Mosquito Trap Collections CDC/Gravid
8/6/2019	Weekly Mosquito Trap Collections CDC/Gravid
8/13/2019	Weekly Mosquito Trap Collections CDC/Gravid
8/16/2019	Positive EEE Mosquito Pool Notification Ae. vexans
8/16/2019	Positive EEE Mosquito Pool Notification Cq. perturbans
8/19/2019	Supplemental Trap Collected- Chatham Road
8/19/2019	Supplemental Trap Collected- Haggetts Pond Road
8/19/2019	Supplemental Trap Collected- Abbot Street
8/19/2019	Andover EEE Risk Level Raised to MODERATE by DPH
8/19/2019	Larviciding - Spring Grove Cemetery, Greenwood (17.78 lbs Fourstar Bti-CRG)
8/19/2019	Attendance at Andover BOH Meeting re: Intervention Plan
8/20/2019	Weekly Mosquito Trap Collections CDC/Gravid
8/20/2019	Block Area Emergency Adulticide- EEE Response (1 area)
8/23/2019	Barrier Sprays completed-Schools, Parks, Recs

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8/23/2019	Positive EEE Mosquito Pool Notification Cq. perturbans
8/23/2019	Positive EEE Mosquito Pool Notification Cq. perturbans
8/26/2019	Supplemental Trap Collected-Yardley Road
8/26/2019	Supplemental Trap Collected- Worthen Place
8/26/2019	Supplemental Trap Collected- Woodland Road
8/26/2019	Andover EEE Risk Level Raised to HIGH by DPH
8/26/2019	Barrier Sprays completed-Phillips Academy
8/26/2019	Block Area Emergency Adulticide- EEE Response (2 areas)
8/27/2019	Weekly Mosquito Trap Collections CDC/Gravid
8/27/2019	Resident Site Inspection Request - Argilla Road
8/29/2019	Barrier Sprays completed- NE Bible Church, Merrimack College
8/29/2019	Resident Site Inspection and Larvicide Request - Marie Dr, Summer St (0.68 lbs Vectobac G)
9/3/2019	Weekly Mosquito Trap Collections CDC/Gravid
9/5/2019	Block Area Emergency Adulticide- EEE Response (2 areas)
9/5/2019	Attendance at Andover Superintendent School Meeting re: IPM
9/10/2019	Weekly Mosquito Trap Collections CDC/Gravid
9/10/2019	Participation in open conference line with Andover BOH
9/12/2019	Barrier Sprays completed- Andover Montessori School
9/17/2019	Weekly Mosquito Trap Collections CDC/Gravid
9/17/2019	Participation in open conference line with Andover BOH
9/24/2019	Weekly Mosquito Trap Collections CDC/Gravid
9/24/2019	Participation in open conference line with Andover BOH
10/1/2019	Weekly Mosquito Trap Collections CDC/Gravid
10/1/2019	Participation in open conference line with Andover BOH
10/10/2019	NEMMC held Gould Barn BOH/DPH/SRB inclusive Commission meeting to review EEE year

- **Andover had a total of 3 Residential & 1 BOH Service Requests in 2019**

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

- **Andover had a total of 42 Habitat Site Inspections in 2019**

## **2019 Andover Mosquito & Arbovirus Surveillance Summary**

There were **4 EEE isolations** in Andover in 2019. There were no WNV mosquito isolations. At the end of 2019, the arboviral risk level for Andover remained at MODERATE for EEE and LOW for WNV. Risk Categories are described in Table 2 of the 2019 MDPH 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.

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- 49 mosquito pools/batches were sent from Andover to the MDPH lab for testing in 2019
- 6 supplemental CDC/CO2 Light traps were placed in Andover during 2019
- In 2019, 4 mosquito pools/batches of human biting mosquitoes tested positive for EEE (see history below)
- No subsequent virus isolations were detected for the remainder of the season in areas where completion of each block ULV adulticide event occurred.

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

Collection Date	Species	Test Type	Result
8/13/2019	<i>Aedes vexans</i>	EEE	Positive
8/13/2019	<i>Coquillettidia perturbans</i>	EEE	Positive
8/19/2019	<i>Coquillettidia perturbans</i>	EEE	Positive
8/19/2019	<i>Coquillettidia perturbans</i>	EEE	Positive
7/18/2012	<i>Culex pipiens/restuans</i> complex	WNV	Positive
8/10/2011	<i>Culex pipiens/restuans</i> complex	WNV	Positive
8/10/2011	<i>Culex pipiens/restuans</i> complex	WNV	Positive

<u>Total Mosquito Collected in Andover*</u>	<u>2018</u>	<u>2019</u>	<u>% change</u>
CDC CO2/Light traps (1)	426	1,294	204%
Gravid Traps (1)	16	100	525%
<b>Totals</b>	<b>442</b>	<b>1,394</b>	

<u>Mosquito Species- pest/disease list- Andover*</u>	<u>2018</u>	<u>2019</u>	<u>Change</u>	<u>WNV/EEE +</u>	<u>District Total-2019</u>
<i>Culiseta melanura</i> (red maple swamp/acid bog)	4	1	-75%	NO	2,401
<i>Culex pipiens</i> (container/catch basins/high organics)	12	32	167%	NO	1,279
<i>Culex restuans</i> (container/catch basins)	4	6	50%	NO	637
<i>Culex salinarius</i> (brackish water/phragmites/roadside ditches)	0	14	-	NO	13,063
<i>Coquillettidia perturbans</i> (cattail)	373	1,240	232%	EEE	45,233
<i>Aedes vexans</i> (rainwater/fresh floodwater)	0	21	-	EEE	968
<i>Aedes japonicus</i> (tree hole/container breeder)	2	27	1,250%	NO	835
<i>Aedes sollicitans</i> (salt marsh)	0	0	0	NO	207
<i>Aedes cantator</i> (salt marsh)	0	1	-	NO	8,566
<i>Aedes canadensis</i> (snowmelt/woodland pool)	3	5	67%	NO	1,419

\*Note: Andover had a trap location change from 14 Prospect Street Highway Department to 144 Abbot Street Cemetery in the spring of 2019. The Abbot Street trap location was the original historic trap for the municipality.

**WNV/EEE** bridge vectors/human biters

- Andover had increases in *Ae. vexans* collections due to frequent and heavy summer rain events, and possible trap location changes (see \*Note) that primarily have these mosquito habitats. *Cq. perturbans* collections increased from the 2018 season's precipitation. *Cq. perturbans* larvae are also hard to treat as they attach themselves under soil to submerged roots in their cattail

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habitat. *Cx. salinarius*, a brackish water mosquito, can also breed in roadside ditches that are bordering roads treated in winter with de-icing salts or runoff areas near salt storage sheds.

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

- There was a 138% increase in collections of WNV primary vectors from 2018 to 2019 in Andover. Due to trap location changes into the cemetery there were new breeding areas identified for these species that did not include catch basins. However, early catch basin cleaning and treatments can help keep *Culex* mosquito populations in check despite frequent rain events that filled man-made containers and left stagnant water in more locations. Our District did have several WNV isolations from mosquitoes in 2019, but none from Andover and no human cases.

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

- Andover saw a decrease in *Cs. melanura* collections in 2019, possibly from a trap location change that did not include this species major habitat. District wide there was a 4% decrease in 2017 due to long-term drought conditions and a rebounding increase of 99% during 2018 from mid to late summer precipitation and another increase of 124% in 2019. Any increases of *Cs. melanura* populations for 2020 will depend on future precipitation and groundwater conditions through the winter in the species hummock/crypt habitat.

Andover has an urban center, suburban habitats and extensive forested wetlands that favor the development of the both EEE and WNV vectors. There will always be concern of transmission and human infection by WNV/EEE in Andover and all surrounding municipalities. From July to the first hard frost, Andover residents should take necessary precautions to reduce the risk of infection EEE/WNV and other mosquito borne viruses, regardless of low mosquito populations and/or aggressiveness of control.

A hard, or killing frost, 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 11 of the 2019 MA Arbovirus Plan listed below).

Refer to the 2019 Massachusetts State Arbovirus Surveillance and Response Plan viewed online at:

<https://www.mass.gov/lists/arbovirus-surveillance-plan-and-historical-data#response-plan->

## **Focus of Operations for 2020**

Regional control efforts will focus primarily on larval surveillance and treatment, adult mosquito surveillance, virus testing and preemptive virus intervention strategies. Specific to Andover the primary focus of control efforts will be on freshwater larviciding, catch basin treatments and virus intervention for WNV and EEE.

- School IPM program coordinators should confirm all schools are updated for outdoor mosquito control with our District for 2020. Coordinators please call our office or visit the MDAR School IPM website at <https://massnrc.org/ipm/schools-daycare/ipm-tools-resources/ipm-plan-maker/make-your-ipm-online/locate-school-plan.asp#> for more information.

## Regional Control Measures

**Regional Adult Mosquito Surveillance Program:** CDC/CO2 Light traps are used to sample the adult mosquito population, monitor both short and long term trends and determine population density of bridge vectors (human biters) of WNV and EEE. Gravid traps are designed to collect adult female *Culex* species the primary vectors (bird biters) of WNV.

At least one of these dual function units is placed in a fixed location in each member municipality for a total of 36 deployed throughout the District. Mosquitoes are collected and identified from each trap once per week beginning mid-May until September 31<sup>st</sup>. The MA DPH may extend testing into October. In the event mosquitoes collected from these traps test positive for EEE or WNV the District will add supplemental CDC CO2/Light traps at specific sites within the municipality.

### Supplemental trapping criteria for 2020:

After the 1<sup>st</sup> positive WNV/EEE primary vector species (bird biters) in any municipality supplemental traps could be placed in locations with these parameters:

- Radius of collection
- Distance from historic trap
- Topography
- Human population density
- Bridge vector potential breeding sites
- Schools/parks/recreation areas
- Site security
- Wetland/wooded/shaded/moist areas

Supplemental mosquito collections may be sent to State Laboratory for additional arbovirus testing.

The District will operate 128 resting boxes at 16 sites. Resting boxes are designed to collect blood fed female *Culiseta melanura* mosquitoes relevant to EEE transmission. Eight resting boxes will be placed at each fixed location and there will be two fixed locations in communities bordering New Hampshire as well as other communities considered to be at risk. The District will collect and identify samples from each trap every week and the specimens will be tested for virus.

In the event *Cs. melanura* mosquitoes collected from resting box sites test positive for EEE the District will deploy supplemental CDC CO2/Light traps in high risk areas.

**Virus Testing:** Specimens from our trap collections will be sent to The Massachusetts Department of Public Health (MA DPH) to be tested for the presence of encephalitis viruses. Our District mosquito testing results will be available on Fridays of each week. The MA DPH will contact the municipalities BOH officers as well as our District of any positive test results.

Mosquito virus testing criteria for 2020:

Phase I

- June 15<sup>th</sup> to August 1<sup>st</sup>
- Primary vectors (bird biters): *Cs. melanura*, *Cs. morsitans*, *Cx. pipiens* and *Cx. restuans*
- Other mosquito species may be tested on a case by case basis.

Phase II

- August 1<sup>st</sup> to October 1<sup>st</sup> (or October 15<sup>th</sup> for MA DHP extended season)
- Primary vectors (species listed above) + Bridge vectors (bird/mammal biters): *Ae. cinereus*, *Ae. vexans*, *Cq. perturbans*, *Cx. salinarius*, *Ae. canadensis*, *Ae. japonicus*, *Ae. taeniorhynchus*, *Ps. ferox* and *Ae. sollicitans*
- Other mosquito species may be tested on a case by case basis.

**Regional Vector/Virus Intervention:** Control efforts will focus on early intervention strategies in municipalities that have shown a greater risk to mosquito borne virus based on events of the previous seasons and surveillance data as prescribed in the District's [Integrated Pest and Vector Management Plan](#) (IPVMP). This approach is in the best interest of all member municipalities as focused early intervention strategies seem to demonstrate containment of WNV, and may reduce the risk of EEE exposure to humans and the migration of virus to other municipalities.

**Regional Aerial Salt Marsh Larviciding Program:** Coastal salt marshes in neighboring communities from Ipswich to the New Hampshire border will be aerially larvicided by helicopter to control salt marsh mosquitoes in accordance with the respective Best Management Practice Plans. Salt marsh mosquitoes are capable of flying up to 25 miles in search of a blood meal and then return to the salt marsh in order to lay eggs. Coastal communities as well as many inland cities and towns receive direct and immediate benefit from the control of salt marsh mosquitoes.

- Aerial bacterial larviciding operations in coastal communities (3 treatments in 2019). These applications provide relief from salt marsh mosquito (*Ae. cantator/Ae. sollicitans*) hatches for all municipalities in our District.

**Control Measures Specific to Andover**

**Ground Larviciding:** Larviciding sites from the District's data base, including retention ponds, detention basins and areas requested by the local Board of Health will be checked and treated for mosquito larvae as necessary, beginning in March or as snow melt allows, to September 30<sup>th</sup> and beyond if circumstances warrant and conditions allow.

**Catch Basins:** Catch Basin treatments will be scheduled with local DPWs so that each municipality's annual cleaning of basins does not jeopardize the treatment and effectiveness of the larvicide used to control mosquito larvae in these basins. ***The timing of catch basin cleaning is very important and will dictate what type of larvicide will be used to control the mosquito breeding in these basins.*** BT/BS (bacterium) products work very well to control mosquito larvae in cleaned basins, but do not work well in uncleaned basins or ones high in organic matter. A Methoprene product would have to be used in uncleaned catch basins. Depending



on the DPW's cleaning schedule, basins will be checked and treated as necessary beginning May 1<sup>st</sup> through August 31<sup>st</sup>.

**Manual Ditch Maintenance:** In the course of ground larviciding and catch basin treatments, roadside ditches and culverts will be manually cleared of manageable blockages and debris in order to reduce mosquito breeding habitat and / or potential habitat.

**Adulticiding:** The District uses a system called Ultra Low Volume (ULV) for ground adulticiding applications. ULV is designed to dispense very small amounts of pesticides over a large area. While this is a cost effective means of reducing mosquito populations on a large scale, it only affects those mosquitoes present at the time of the application and repeated applications are sometimes necessary in some areas to sustain the initial reduction in the mosquito population.

Per product label, NEMMC will not conduct adulticide applications when temperatures are below 50 F and/or when wind speeds exceed 10 mph.

**Virus intervention will be at the request of and coordinated through the Board of Health with recommendations from Northeast MA Mosquito Control of specific areas to be targeted. Adulticide applications to schools must be in compliance with [333 CMR 14.08](#).**

- **Residential Pesticide Exemption:** Residents who request their property be excluded from pesticide applications must comply with the legal process to exempt their property. Pursuant to 333 CMR 13.03, individuals may request exclusion from wide area applications of pesticides by the District for the 2020 calendar year starting January 1<sup>st</sup> 2020. Requests **must be made to the Department of Agricultural Resources** online, and **will go into effect 14 days** from the date the request is received. All exclusion requests expire on December 31<sup>st</sup>, 2020. The exclusion request can be accessed from either our districts website or directly from the Department of Agricultural website:

<https://www.mass.gov/how-to/exclusion-from-wide-area-pesticides-application>

**Barrier Treatment:** To reduce the need for repeated ULV applications and provide more sustained relief from mosquitoes in high public use areas, the District can provide barrier treatments to public use areas such as schools, playgrounds, athletic fields, etc., at the request of the Board of health and/or school departments.

Per product label, NEMMC will not conduct barrier applications when temperatures are below 50 F and/or when wind speeds exceed 10 mph and/or when precipitation is predicted within 24 hours of a barrier application.

**Barrier applications to schools must be in compliance with [333 CMR 14.08](#).**

**Ditch Maintenance / Wetlands Management:** The town may petition the District to undertake larger scale ditch maintenance projects, wetland enhancement and restoration projects requiring specialized mechanized equipment and expertise. Petitioned sites will be evaluated and a site specific proposal will be written for acceptable projects. Wetland management projects must have a mosquito remediation component. Wetland management projects may be beyond the scope of any municipality's assessment and may require a separate and additional appropriation.

**Tire Recycling Program:** Tires have historically been discarded on public and private properties, in both upland and wetland environments. Once a pile is started it can quickly grow into a substantial public health issue and is a known source of mosquito proliferation.

Discarded tires almost always hold water and are a prime location for artificial container breeding mosquito species, most notably *Culex pipiens*, *Culex restuans* and *Aedes japonicus*. *Cx. pipiens* and *Cx. restuans* are considered to be the key vector species of both encephalitis viruses in the District. *Ae. japonicus* is a new species to Massachusetts since 2000, and is thought to have been imported into the United States in used tires. *Ae. japonicus* has also shown to be a competent vector of West Nile virus. Invasive mosquito species are known to travel in containers like tires.

*Aedes albopictus*, an exotic invasive species, is now established in Central and Southern Massachusetts and has made an appearance in the Northeast District during 2018. This species has the potential for arbovirus transmission and breeds in discarded tires. As in previous seasons, the district will be maintaining tire water sample programs, tire collections and larviciding in order to monitor and control the spread of this species in the district.

**Property Inspection:** While the District is authorized under the provisions of Chapter 252, section 4 of the General Laws of the Commonwealth to enter upon lands for the purpose of inspection, it is not a regulatory agency. It also is not our intention to impose on any resident or business, but rather to be a resource for information and technology to help property owners prevent or abate mosquitoes to the mutual benefit of the property owner and the community.

The district receives many requests from municipal Boards of Health to inspect abandoned properties. With the increased health risk associated with property abandonment the District will take an aggressive approach to property inspections. In the course of our routine activities in your community, if we discover such properties, we will inspect and report these properties to the Board of Health. We understand that addressing concerns related to such properties is a matter of time and process. In the long term we will offer any support that may be appropriated to resolve mosquito problems related to such properties and in the short term with the Board of Health's support we will implement the necessary control measures to mitigate the immediate mosquito problem associated with such properties.

**Mosquito Habitat Mitigation:** The District will represent the town's mosquito control concerns in an advisory capacity relative to proposed development and where prudent as requested by local health officials.

**Research and Development:** The District will evaluate the efficacy and efficiency of current control methods, investigate new methods, procedures and technologies in mosquito control and wetlands management and evaluate their implications for use in Andover.

**Education and Outreach:** The District will present educational displays and programs on mosquito control and related wetlands management programs at the request of health officials, schools or civic organizations. The District will also monitor and update local schools, daycares etc. regarding IPM plans and current child protection requirements.

The District's Liaison communicates information between participating Boards of Health, school officials, and District personnel to facilitate operational requests in member municipalities. The Liaison will distribute and

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review the BMPs with all participating Board of Health directors, contact school IPM coordinators who have not updated their IPM plans to include mosquito control products, and will act as the single point of contact during the mosquito season.

**Social Media:** In the recent past, the District has recognized the need to provide information on our activities in a timelier manner. Social media is proving to be the go to method of disseminating information for many companies and individuals.

The District maintains a valuable website. This site is full of resources, information and provides more timely updates of our activities. We have found that many questions can be answered through our website and we will continue to increase our web presence. Please visit us at [www.nemassmosquito.org](http://www.nemassmosquito.org)