DEDHAM

2019 REPORT OF THE NORFOLK COUNTY MOSQUITO CONTROL DISTRICT

NCMCD operations apply an Integrated Pest Management (IPM) approach to mosquito control that is rational, environmentally sensitive, and cost effective.

Surveillance

NCMCD is engaged in an intensive monitoring process through weekly field collections and data analysis in collaboration with the Massachusetts Department of Public Health (MDPH) to detect for disease-vectoring mosquitoes. Virus isolations assist us in focusing our surveillance to hot zones thereby allowing us to alert nearby towns of a potential epidemic. Public requests for service alert us to high numbers of nuisance mosquitoes.

Virus Isolations in the town:	33 samples submitted, 1 WNv isolation in 2019
Requests for service:	279

Water Management

Communication with residents and town/state/federal officials, site visits, monitoring, wildlife management, and land surveys while maintaining regulatory compliance is integral to the management of waterways that may contribute to mosquito breeding. Pre- to post-management documentation allows us to assess the efficacy of our work. Tire collections remove a common breeding site of mosquitoes.

Culverts cleared	46 culverts
Drainage ditches checked/hand cleaned	370 feet
Intensive hand clean/brushing*	0 feet
Mechanical water management	0 feet
Tires collected	5

** Combination of brush cutting and clearing of severely degraded drainage systems or streams by hand.*

Larval Control

When mosquito larval habitat management is not possible, larval mosquito abatement is the most environmentally friendly and effective method of mosquito control. An intensive monitoring program, aides in our decision to effectively target culprit locations.

Spring aerial larvicide applications	(April)	151.6 acres
Summer aerial larvicide applications	(May – August)	0 acres
Autumn aerial larvicide applications	(September)	15
Larval control - briquette & granular applications by hand		3.7 acres
Rain basin treatments – briquettes by hand (West Nile virus control)		1,717 basins
Abandoned/unopened pool or other manmade structures treated		0

Adult Control

Adult mosquito control is necessary when public health and/or quality of life is threatened either by disease agents, overwhelming populations, or both. Our surveillance program, along with service request data and state of the art GPS and computer equipment, allows us to focus our treatments to targeted areas.

Adult aerosol ultra low volume (ULV) applications from trucks	3,739 acres
Barrier applications on municipal property	2 applications, total of 20 gallons mix

Respectfully submitted,

David A. Lawson, Director