MEDWAY

2023 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 areas of concern 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:	14 samples submitted, with no isolations in 2023
Requests for service:	163

Water Management

The NCMCD reduces the potential for larval mosquito development through a variety of methods under this category. Our Freshwater Water Management Program includes Ditch & Pond Maintenance, as well as Culvert Area Clearing conducted to improve water quality and increase water flow.
Tire collection is a service in which we remove and recycle off rim tires in order to eliminate this source of potential larval mosquito development.

Culverts cleared	20 culverts
We also shovel hydrants when needed while conducting culvert work	0 hydrants
Drainage ditches checked/hand cleaned	7,300 feet
Intensive hand clean/brushing*	2,250 feet
Mechanical water management	0 feet
Tires collected	34

** 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)	121.3 acres
Summer aerial larvicide applications	(May – August)	0 acres
Larval control - briquette & granular applications by hand		11.8 acres
Rain basin treatments – briquettes by hand (West Nile virus control)		1,384 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	4,115 acres
Barrier applications on municipal property	1 application with 10 gal mix

Respectfully submitted,

David A. Lawson, Director