MASSACHUSETTS MOSQUITO CONTROL

ANNUAL OPERATIONS REPORT

Year Report Covers: 2021 Date of Report: 00/08/2022

Project/District Name: **Dukes County Mosquito Control Project**

Address: po Box 190

City/Town: Edgartown Zip: 02539

Phone: 508-696-3840 Fax: 508-696-3841

E-mail: manager@dukescounty.org

Report prepared by: Martina Thornton, Dukes County Manager and Richard Johnson

NPDES permit no. N/A

If you have a mission statement, please include it here:

ORGANIZATION SETUP:

Commissioner names:

Matt PooleMaura ValleyMarina LentMeegan Lancaster

Omar Johnson _____

Superintendent/Director name: N/A

Superintendent/Director contact phone number:

Asst. Superintendent/Director name:

District/Project website: http://www.dukescounty.org/mosquito-surveillance-program

Twitter handle: @

Facebook page: http://www.facebook.com/

Staffing levels for the year of this report:

Full time: 0 Part time: 0 Seasonal: 1

Other: 0 (please describe)



Of the above, how many are: (Please check off all that apply, and list employee name(s) next to each category)
Administrative Biologist 1 (also our surveillance technicial) Educator Entomologist Facilities Information technology Laboratory Operations Public relations Wetland scientist Other (please describe)
For the year of this report, the following were maintained (enter number in the column to the left):
O Modified wetland equipment (list type) O Larval control equipment (list type) O ULV sprayers (list type) O Vehicles Other (please be specific): 0
Comments: Dukes County only provides seasonal mosquito surveillance.
How many cities and towns are in your service area?* 6 Alphabetical list: Aquinnah, Chilmark, Edgartown, Oak Bluffs, Tisbury, West Tisbury - the surveillance is done in one location in each town on Martha's Vineyard.
Were there any changes to your service area this year? No Cities/towns added: Cities/towns removed:
*Please attach a map of your service area (or a website link to that map).
INTEGRATED PEST MANAGEMENT (IPM): Check off all services that your district/project currently provides to member cities and towns as part of an IPM program (details will be provided in the sections below):
 Adult mosquito control Adult mosquito surveillance Ditch maintenance Education, Outreach & Public education Larval mosquito control Larval mosquito surveillance Open Marsh Water Management

Research Source reduction (tire removals) Other (please list):
Comments:
LARVAL MOSQUITO CONTROL:
If you have a larval mosquito control program, please fill out the section below, else skip ahead to the next section.
Describe the purpose of this program:
What months is this program active?
Describe the types of areas where you use this program:
Do you use: Ground application (hand, portable and/or backpack, etc.) Aerial applications Other (please list): Comments:

List all products that you use for larval mosquito control in the table below (leave blank if not applicable):

Product Name	EPA#	Application	Application	Targeted life	Habitat Type	Total finished
		Rate(s)	Method	stage		product applied
				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	
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				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	

Best profess Historical red	ional judgment cords unts – please list e describe):		check all that apply)		
Please attach a	map of your serv	rice area (or a w	vebsite link to that m	ap).	
ADULT MOSQU If you have a larval		ogram, please fill o	out the section below, else	skip ahead to the next sect	tion.
Describe the pu	rpose of this prog	gram:			
What is the time	e frame for this pi	rogram?			
Describe the typ	es of areas where	e you use this p	rogram:		
Do you use: Aerial applic Portable applic Truck applic Other (pleas Comments: For each product Product Name	olications ations e list): —	t the name, EPA Application	A#, and application ra	ate(s): Total finished	
		Rate(s)	Method	product applied	
Please describe season and area		mounts or freq	juency used in a part	ticular time frame suc	h as
Arbovirus da Best profess Complaint ca Landing rate		ger for application	n)		

Please attach a map of your service area (or a website link to that map).

	removal, please fill out the section below, else skip ahead to
the next section.	
Please describe your program:	
rease accounce your programm	
What time frame during the year is this meth	od employed?
Comments:	
WATER MANAGEMENT/DITCH MAINTENAN	
	e program, please fill out the section below, else skip ahead
to the next section.	
Please check all that apply:	
Inland/freshwater	
Saltmarsh	
Please describe your program:	
For inland/freshwater water management,	check off all that apply.
Maintenance Type	Estimate of cumulative length of culverts, ditches,
	swales, etc. maintained (ft)
Culvert cleaning	
culvert cleaning	
Hand cleaning	
Hand cleaning Mechanized cleaning	
Hand cleaning	
Hand cleaning Mechanized cleaning	
Hand cleaning Mechanized cleaning Stream flow improvement	
Hand cleaning Mechanized cleaning Stream flow improvement Other (please list): Comments:	
Hand cleaning Mechanized cleaning Stream flow improvement Other (please list): Comments: For saltmarsh ditch maintenance, check off a	
Hand cleaning Mechanized cleaning Stream flow improvement Other (please list): Comments:	Estimate of cumulative length of ditches maintained
Hand cleaning Mechanized cleaning Stream flow improvement Other (please list): Comments: For saltmarsh ditch maintenance, check off a Maintenance Type	
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Please attach a map of ditch maintenance areas (or a website link to that map).

OPEN MARSH WATER MANAGEN If you have an Open Marsh Water Mana next section.	MENT Igement program, please fill out the section below, else skip ahead to the			
Describe the purpose of this prog	ram:			
What months is this program acti	ve?			
Please give an estimate of total so	quare feet or acreage:			
Comments:				
Please attach a map of OMWM a	reas (or a website link to that map).			
MONITORING (Measures of Effica	асу)			
Describe monitoring efforts for e	each of the following:			
Aerial Larvicide – wetlands:				
Ground ULV Adulticide:				
Larvicide – catch basins:				
Larvicide-hand/small area				
Open Marsh Water Management	:			
Source Reduction:				
Other (please list):				
Provide or list standard steps, criterion, or protocols regarding the documentation of efficacy (pre and post data), and resistance testing (if any):				
Check the boxes below, indicating	g if your program has performed any of the following:			
Research Project	Details			
Bottle assays Efficacy testing				
Other:				
Other:				

ADULT MOSQUITO SURVEILLANCE

If you have an adult mosquito surveillance program, please fill out the section below, else skip ahead to the next section.

Describe the purpose of this program: Monitor adult mosquitoes for numbers and diseases

What months is this program active? July - September

Check off all tra	p types used this p	past season by	your program:
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Trap Type	Canopy?	Number of traps
	(check box for yes)	(leave blank if zero)
ABC light trap		
☐ ABC light trap w/CO ₂		
CDC light trap		
CDC light trap w/CO ₂		
Gravid trap		6
Landing rate test		
NJ light trap		
NJ light trap w/CO₂		
		6
Resting box		
Other (please describe):		
Other (please describe):		
Other (please describe):		

Do you maintain long-term trap sites in any of your areas? No If yes, how many:

Please check off the species of concern in your se	ervice area:
🔀 Ae. albopictus	Oc. abserratus
Ae. cinereus	Oc. canadensis
Ae. vexans	Oc. cantator
An. punctipennis	🔀 Oc. j. japonicus
An. quadrimaculatus	Oc. sollicitans
Cq. perturbans	Oc. taeniorhynchus
∑ Cx. pipiens	Oc. triseriatus
🔀 Cx. restuans	Oc. trivittatus
Cx. salinarius	Ps. ferox
Cs. melanura	Ur. sapphirina
Cs. morsitans	
Others (please list):	

Number of adult mosquitoes collected this season (whether submitted to DPH or not): 407 Number of adult mosquito pools collected this season (submitted and unsubmitted): 26 Number of ovitrap collections this season, if any:

Any other trap collections of note (please describe):

Do you participate in the MDPH Arboviral Surveillance program? Yes Total number of adult mosquito pools submitted to DPH this past season: 26 How many pools do you submit weekly on average? 2.36

Number of traps in your service area placed by MDPH: 0 Were these long-term trap sites or supplemental trapping sites? Choose one

Which arboviruses were found in your area during the previous mosquito season? Enter the number of pools/cases below:

Arbovirus	Positive Mosquito Pools	Equine Cases	Human Cases
Eastern Equine Encephalitis (EEE)			
West Nile Virus (WNV)			
Other (please list):			

Eastern Equine Encephalitis (EEE)		
West Nile Virus (WNV)		
Other (please list):		

Co	mn	nent	ts:	

For each arbovirus listed below, please list the risk levels in your project area at both the start and end of the season (if more than one, please list all):

Arbovirus	Start of Season	End of Season
EEE	low	low
WNV	low	low

Cc	m	me	ents:	

EDUCATION, OUTREACH & PUBLIC RELATIONS

If you have an education/outreach program, please fill out the section below, else skip ahead to the next section.

Describe the purpose of this program: Provide basic prevention information.

What time frame during the year is this method employed? Year-round

Ch	eck off all education/outreach methods that were performed by your program this year:
	Development/distribution of brochures, handouts, etc.
	Door-to-door canvassing (door hangers, speaking to property owners, etc.)
	Facebook page, Twitter, or other social media
	Mailings (Describe target audience(s):
	Media outreach (interviews for print or online media sources, press releases, etc.)
	Presentations at meetings
	School-based programs, science fairs, etc.
	Tabling at events (local events, annual meetings, etc.)
X	Website
	Other (please describe):

Estimate the audience reached this year using the education/outreach methods above: Comments:

	rogram's top 3	education/outreach	activities for this year:	
1				
2	<u> </u>			
3				
below, incomagazine and Acader Another Another	luding a list of articles, etc: mia er mosquito co er state agency	technical reports, wh ntrol district/project (DCR, DPH, etc.)	the following partners this year? Provide details nite/grey papers, journal publications, trade	
List any tra	aining/education	on your staff received	d this year:	
Please list	the certificatio	ns and degrees held	by your staff:	
Comments	s:			
INFORMA [*]	TION TECHNOL	LOGY (IT)		
Does your	program use (check all that apply):		
_	Photography			
Databa				
=	• •	ing for temperature,	etc.)	
	pping (Describ	e:)		
	uipment			
	Smartphones			
	/Toughbooks	۵۱.		
Other (please describe):				
Describe any changes/enhancements in IT from the previous year:				
Describe any difficulties your program had with IT software/equipment this year:				
Comments	s:			
REVENUES	& EXPENDITU	JRES		
Please ent	er your approv	ed budgets for the c	urrent, previous, and future fiscal years.	
	Date of Fiscal	Approved Budget	Notes	
	Year			

4	-1
- 1	- 1

Previous

Current

2020

2021

6177

5415

Actual Costs

Actual Costs

Future	2022	6100	Estimate

List each member municipality, along with the corresponding (cherry sheet) funding assessment dollar amount, for the current fiscal year (or provide a web link to this information):

Comments: The cost is paid for by each town's Board of Health (not on cherry sheet). They pay their portion of the actual expenses at the end of the season.

SERVICE REQUESTS

How many service requests did you receive this season? N/A How many were for larviciding? How many were for adulticiding?

Was this an increase or decrease over last season? Choose one

Comments:

EXCLUSIONS

How many exclusion requests did you receive this season?

Was this an increase or decrease over last season? Choose one

Do you have large areas of pesticide exclusion, such as estimated or priority habitats? Choose one

If yes, please explain, and attach maps or a web link if possible.

SPECIAL PROJECTS

Did your program perform any of the following special projects? Check all that apply.

•	☐ Inspectional services (inspections at sewage treatment facilities, review of subdivision plans, etc.)
	Describe:
•	Work with DPW departments or other local or state officials to address stormwater systems, clogged culverts, or other areas identified as man-made mosquito problem areas
	Describe:
•	Work with groups as described above on long term solutions? Describe:

 Conduct or participate in any cooperative research or restoration projects? Describe:
 Participate in any state/regional/national workgroups or panels, or attend any meeting pertaining to the above?
Describe:
 Work on any biological control projects, such as enhancement of habitat for native predators, release of predatory fish or invertebrates, etc.?
Describe:
CHILDREN AND FAMILIES PROTECTION ACT (CFPA)
Is your program impacted by the CFPA? No
If yes, please explain:
If you have data on compliance rates with the CFPA within your program area, please list here:
Describe any difficulties you have had with the implementation of your program due to the CFPA, please elaborate here:
Comments:
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PROGRAM
Did your program report any adverse incidents during this reporting period? No
If yes, please list any corrective actions here:
GENERAL COMMENTS
Please add any comments here for topics not covered elsewhere in this report: