MASSACHUSETTS MOSQUITO CONTROL

ANNUAL OPERATIONS REPORT

Year Report Covers: 2018 Date of Report: 01/05/2019

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

Address: P.O. 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 LancasterOmar JohnsonPhoenix Becker

Superintendent/Director name: N/A

Superintendent/Director contact phone number:

Asst. Superintendent/Director name:

District/Project website:

http://www.dukescounty.org/Pages/DukesCountyMA Mosquito/index

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 technician)
Educator
Entomologist
Facilities Information to shape logue
☐ 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):
Modified wetland equipment (list type)
0 Larval control equipment (list type)
0 ULV sprayers (list type)
1 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):	
				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	
				Choose one	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	

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

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				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	
				Choose one	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	
				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	vice area (or a v	vebsite link to that	map).
ADULT MOSQU				
If you have a larval	mosquito control pro	ogram, please fill c	out the section below, el	lse skip ahead to the next section.
Describe the pu	rpose of this prog	gram:		
What is the time	e frame for this p	rogram?		
Describe the typ	es of areas where	e you use this p	orogram:	
Do you use: Aerial applications Portable applications Truck applications Other (please list): Comments:				
Product Name	EPA #	Application	A #, and application Application	Total finished
		Rate(s)	Method	product applied
Please describe the maximum amounts or frequency used in a particular time frame such as season and areas				
Arbovirus da Best profess Complaint ca Landing rate		ger for applicater for application	n)	y)

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

SOURCE REDUCTION (Tire Removals)					
	urce reduction methods, such as tire	removal, please fill out the section below, else skip ahead to			
the next section.					
Dloggo dosgrih	o vour program:				
Please describ	e your program:				
What time fra	me during the year is this met	had employed?			
What thire i'u	me daring the year is this mee	nod employed.			
Comments:					
WATER MANA	AGEMENT/DITCH MAINTENAN	NCE			
		ce program, please fill out the section below, else skip ahead			
to the next section	n.				
Please check a					
Inland/fres	hwater				
Saltmarsh					
Please describ	Please describe your program:				
For inland /fra		about off all that are by			
For inland/freshwater water management, check off all that apply. Maintenance Type Estimate of cumulative length of culverts, ditches,					
ivialiteliance i	уре	swales, etc. maintained (ft)			
Culvert cle	aning				
Hand clear					
Mechanize	<u> </u>				
	w improvement				
Other (plea	•				
Comments:	•				
For saltmarsh	ditch maintenance, check off	all that apply:			
Maintenance T	ype	Estimate of cumulative length of ditches maintained			
		(ft)			
Hand clear					
	ed cleaning				
Other (plea	ase list):				
Comments:					
What time fra	me during the year is this met	hod employed?			
Comments:					

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 gement program, please fill out the section below, else skip ahead to the				
Describe the purpose of this prog	ram:				
What months is this program active?					
Please give an estimate of total square feet or acreage:					
Comments:					
Please attach a map of OMWM a	reas (or a website link to that map).				
MONITORING (Measures of Effic	асу)				
Describe monitoring efforts for each of the following:					
Aerial Larvicide – wetlands:					
Ground ULV Adulticide:	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):					
	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: Surveillance for positive testing				
What months is this program active? July, August, September				
Check off all trap types currently in use by	your program:			
ABC light traps ABC light traps w/CO₂ CDC light traps CDC light traps w/CO₂ Gravid traps Landing rate tests NJ light traps NJ light traps Ovitraps Resting boxes Other (please describe):	Canopy Canopy Canopy Canopy Canopy Canopy Canopy			
Do you maintain long-term trap sites in any of your areas? No				
If yes, please describe how you chose these long-term sites: Please check off the species of concern in your service area:				
Ae. albopictus Ae. cinereus Ae. vexans An. punctipennis An. quadrimaculatus Cq. perturbans Cx. pipiens Cx. restuans Cx. salinarius Cs. melanura Cs. morsitans Other (please list):	 ☐ Oc. abserratus ☐ Oc. canadensis ☐ Oc. cantator ☒ Oc. j. japonicus ☐ Oc. sollicitans ☐ Oc. taeniorhynchus ☐ Oc. triseriatus ☐ Oc. trivittatus ☐ Ps. ferox ☐ Ur. sapphirina 			
Do you participate in the MDPH Arboviral S How many pools do you submit weekly on				
Number of traps in your service area placed	d by MDPH: 0			

Were these long-term trap sites or supplemental trapping sites? Choose one

Which arboviruses were found in your	rea during the previous	mosquito seas	on? Enter the
number of pools/cases below:			

Arbovirus	Positive Mosquito Pools	Equine Cases	Human Cases
Eastern Equine Encephalitis (EEE)			
West Nile Virus (WNV)	2		
Other (please list):			

L	Eastern Equine Encephalitis (EEE)				
\triangleright	── West Nile Virus (WNV)		2		
Other (please list):					
Fc		rus listed below, please season (if more than on		your project area a	t both the start
	rbovirus	Start of Season		End of Season	
EE	EE				
W	VNV	low		moderate	
	omments:				
		JTREACH & PUBLIC REL			
If y	you have an educ	cation/outreach program, pl	ease fill out the section b	elow, else skip ahead t	o the next section.
D	escribe the pur	rpose of this program: I	Provide basic preven	tion information.	
W	/hat time fram	e during the year is this	method employed?	Year-round	
	Developmen Door-to-doo Facebook pa Mailings (De Media outre Presentation School-based	ucation/outreach methon nt/distribution of broching or canvassing (door hang age, Twitter, or other so escribe target audience(each (interviews for pring as at meetings d programs, science fair events (local events, annu- se describe):	ures, handouts, etc. gers, speaking to pro ocial media (s):) nt or online media so rs, etc.	perty owners, etc.)	·
	stimate the aud omments:	dience reached this yea	ar using the educatio	n/outreach methoc	ds above:
Li	1 2 3	m's top 3 education/ou	itreach activities for t	his year:	

Were you involved in any collaborations with the following partners this year? Provide details below, including a list of technical reports, white/grey papers, journal publications, trade magazine articles, etc: Academia Another mosquito control district/project Another state agency (DCR, DPH, etc.) Environmental groups Industry
List any training/education your staff received this year:
Please list the certifications and degrees held by your staff: BA psychology, MA biology
Comments:
INFORMATION TECHNOLOGY (IT)
Does your program use (check all that apply): Aerial Photography Databases Dataloggers (monitoring for temperature, etc.) GIS mapping (Describe: GPS equipment Smartphones Tablets/Toughbooks 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:

REVENUES & EXPENDITURES

Please provide the amounts for your approved budgets for the current, previous, and future fiscal years. Please note if the budget for the next fiscal year is an estimate, or put "n/a" if it is not yet available.

Fiscal Year	Approved Budget
2017	5,626.35 actual cost
2018	6,200.92 actual cost

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 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? N/A	
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:		