MASSACHUSETTS MOSQUITO CONTROL

ANNUAL OPERATIONS REPORT

Year Report Covers: 2023 Date of Report:

Project/District Name: Cape Cod Mosquito Control Project

Address: 259 Willow Street 2nd Floor

City/Town: Yarmouthport Zip: MA

Phone: 508-775-1510 Fax: 508-362-7917

E-mail: gabrielle.sakolsky-hoopes@mass.gov

Report prepared by: Caitlin Barrett, Aubrey Paolino, Audrey Russano, Gabrielle Sakolsky-

Hoopes

NPDES permit no. MAG87B211

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

ORGANIZATION SETUP:

Commissioner names:

J. Gregory Milne Rodney Collins

<u>Arthur Neill</u> <u>James Quirk</u>

Emily Beebe

Superintendent/Director name: Gabrielle Sakolsky-Hoopes **Superintendent/Director contact phone number:** 508-775-1510

Asst. Superintendent/Director name: Barton Morris

District/Project website: http://ccmcp.net

Twitter handle: @

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

Other social media accounts:

Staffing levels for the year of this report:

Full time: 27 Part time: Seasonal: 1

Other: (please describe)



Of the above, how many are: (Please check off all that apply, and list employee name(s) next to each category)
 Administrative Caitlin Barrett, Audrey Russano Biologist Educator Aubrey Paolino, Gabrielle Sakolsky Entomologist Aubrey Paolino, Gabrielle Sakolsky Facilities Andrew Fletcher Information technology Audrey Russano Laboratory Aubrey Paolino Operations Barton Morris, Paul Eldredge, Andrew Fletcher Public relations Gabrielle Sakolsky Wetland scientist Other (please describe) Field Crew Josh Berto, Tyler Besly, Sarah Bird, Christian Cedeno, William Chase, Vernon Crownshaw, Daniel Cutler, Braddock Doane, Timothy Ellis, John Harris, Keith Johnson, Eugene McNeill, Robert Motta, Josh Pilone, Michael Racette, Sam Rothwell, Gabriel Selfe, Peter Stegeman, Jason Wiseman, Charles White
For the year of this report, the following were maintained (enter number in the column to the left): 2 Modified wetland equipment (list type) Piston bully, excavator 46 Larval control equipment (list type) ShurFlo electric backpack sprayers, Maruyama granular dusters, Stihl granular dusters ULV sprayers (list type) 20 Vehicles Other (please be specific):
Comments:
How many cities and towns are in your service area?* 15 Alphabetical list: Barnstable, Bourne, Brewster, Chatham, Dennis, Eastham, Falmouth, Harwich, Mashpee, Orleans, Provincetown, Sandwich, Truro, Wellfleet, Yarmouth
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: The purpose of this program is to manage mosquito populations in Barnstable County below nuisance level and to protect human health.
What months is this program active? April - November
Describe the types of areas where you use this program: All fresh water & salt water areas found to contain mosquito larvae.
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 Method	Targeted life	Habitat Type	Total finished
VectoBac G	73049-10	Rate(s) 2.5 to 10 pounds per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	product applied 425.53 lbs
VectoBac GS	73049-10	2.5 to 10 pounds per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	1436 lbs
VectoBac WDG	73049-45	1.75 to 14 oz per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	.25 lbs
VectoMax FG	73049-429	5 to 20 pounds per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	434.33 lbs
VectoLex WSP	73049-20	1 packet per 50 sq ft	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	4.5 lbs
BVA2 Larvicide Oil	70589-1	2 to 3 gallons per acre	Hand	Larvae/pupae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	791.18 gal
Fourstar BTI CRG	85685-4	7.5 to 10 pounds per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	581 lbs

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
VectoBac 12AS	73049-38	.25 to 2 pints per acre	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	559 gal
Cocobear Larvicide Oil	8329-93	3 to 5 gallons per acre	Hand	Larvae/pupae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	110.08 gal
Altosid WSP	2724-448	1 pouch per 135 sq ft	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	2.15 lbs
Altosid WSP	2724-448	1 pouch per basin	Hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	61.22 lbs
Spheratax WSP	84268-2	1 pouch per 50 sq ft	Hand	Larvae	Catch basins Containers Wetland Other (please list):	5.12 lbs
BVA2 Larvicide Oil	70589-1	2 to 3 gallons per acre	Hand	Larvae/pupae	Catch basins Containers Wetland Other (please list):	11.18 gal
				Choose one	Catch basins Containers Wetland Other (please list):	

Best profession Historical reco	onal judgment ords ints – please list t describe):		neck all that apply) cation: 5 larvae per	10 dips	
Please attach a n	nap of your servi	ce area (or a we	ebsite link to that i	nap).	
ADULT MOSQUIT		ogram, please fill ou	ut the section below, ea	se skip ahead to the next sectio	n.
Describe the purp	oose of this progr	ram:			
What is the time	frame for this pro	ogram?			
Describe the type	es of areas where	you use this pro	ogram:		
Do you use: Aerial applica Portable appl Truck applica Other (please Comments:	lications tions e list): —	the name EDA	# and application	rato(c):	
Product Name	EPA #	Application	#, and application in Application in Application	Total finished	
		Rate(s)	Method	product applied	
Please describe t season and areas		nounts or frequ	lency used in a pa	rticular time frame such a	as
Arbovirus dat Best professio Complaint cal Landing rates	-	er for applicatio)	·)	

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

SOURCE REDUCTION (Tire Removals)	
If you practice source reduction methods, such as tire rethe next section.	emoval, please fill out the section below, else skip ahead to
Please describe your program:	
What time frame during the year is this method	od employed?
Comments:	
WATER MANAGEMENT/DITCH MAINTENANC	CE CONTRACTOR OF THE CONTRACTO
If you have a water management or ditch maintenance to the next section.	program, please fill out the section below, else skip ahead
Please check all that apply: Inland/freshwater Saltmarsh Please describe your program:	
For inland/freshwater water management, c	heck off all that apply
Maintenance Type	Estimate of cumulative length of culverts, ditches, swales, etc. maintained (ft)
Culvert cleaning	1038
Hand cleaning	222,729'
Mechanized cleaning	
Stream flow improvement	
Other (please list):	
Comments: For saltmarsh ditch maintenance, check off a	ll that apply:
Maintenance Type	Estimate of cumulative length of ditches maintained (ft)
Hand cleaning	34168
Mechanized cleaning	
Other (please list):	
Comments:	
What time frame during the year is this method Comments:	od employed? October through April

Please attach a map of ditch maintenance areas (or a website link to that map).

OPEN MARSH WATER MANAGEMEN	NT
If you have an Open Marsh Water Managen next section.	nent program, please fill out the section below, else skip ahead to the
Describe the purpose of this progran	n:
What months is this program active?	
Please give an estimate of total squa	re feet or acreage:
Comments:	
Please attach a map of OMWM area	as (or a website link to that map).
MONITORING (Measures of Efficacy	
Describe monitoring efforts for each	n of the following:
Aerial Larvicide – wetlands:	
Ground ULV Adulticide:	
Larvicide – catch basins:	
Larvicide-hand/small area	pre and post larval dip counts
Open Marsh Water Management:	
Source Reduction: to high larval counts. Larval counts a following years.	source reduction projects are only undertaken in response nd amounts of pesticide application is monitored in
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):

All larval habitats are monitored regularly throughout the treatment season. Data is entered into an ArcGIS online database and reviewed in a timely manner. Larvicide efficacy is checked at the beginning and end of the season at a minimum of 18 sites. Source reduction projects are evaluated on a yearly basis.

Check the boxes below, indicating if your program has performed any of the following:

•	0
Research Project	Details
Bottle assays	
Efficacy testing	
Other:	

ADULT MOSQUITO SURVEILLANCE If you have an adult mosquito surveillance program, please fill out the section below, else skip ahead to section. Describe the purpose of this program: To assess populations to determine efficacy of as well as identifying presence of vectors/arbovirus. What months is this program active? April - November Check off all trap types used this past season by your program: Trap Type Canopy? (check box for yes) ABC light trap ABC light trap (leave blank if zero) CDC light trap (26 Landing rate test N light trap (26 Landing rate test N light trap (26 Lottrap (30) Nother (please describe): Other (please describe): Oc. amodensis Ae. cinereus Ae. cinereus Ae. vexans Oc. canadensis An. punctipennis An. quadrimaculatus Oc. cinitator An. quadrimaculatus Oc. ciliiting selliciting sellic					
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If you have an adult mosquito surveillance program, please fill out the section below, else skip ahead to section. Describe the purpose of this program: To assess populations to determine efficacy of as well as identifying presence of vectors/arbovirus. What months is this program active? April - November Check off all trap types used this past season by your program: Trap Type Canopy? (check box for yes) ABC light trap ABC light trap w/CO2 CDC light trap w/CO2 CDC light trap w/CO2 CDC light trap AID light trap w/CO2 DID light trap w/CO2 Ovitrap NJ light t					
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ABC light trap ABC light trap w/CO2 CDC light trap CDC light trap CDC light trap w/CO2 Gravid trap Landing rate test NJ light trap NJ light trap w/CO2 Ovitrap NJ light trap w/CO2 Ovitrap Sesting box 18 Other (please describe): BG Sentinel Trap with BG Lure Other (please describe): Oc. you maintain long-term trap sites in any of your areas? Yes fees, how many: Ac. albopictus Ac. albopictus Ac. cinereus Ac. cinereus Ac. cinereus Ac. vexans Ac. vexans An. punctipennis Oc. canadensis An. quadrimaculatus Oc. j. japonicus)				
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An. punctipennis					
An. quadrimaculatus 🔲 Oc. j. japonicus					
XI Ca. nerturhans					

Ur. sapphirina
Others (please list):

Do you participate in the MDPH Arboviral Surveillance program? Yes
How many pools do you submit weekly on average? 48
Total number of adult mosquito pools submitted to DPH this past season: 865
Number of adult mosquito pools collected but not submitted to DPH ("Unsubmitted"): 3076

Total number of adult mosquitoes submitted to DPH this past season: 22,382

Number of adult mosquitoes collected this season but not submitted to DPH: 110,212

Number of ovitrap collections this season, if any: 155 Any other trap collections of note (please describe):

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 this past mosquito season? Enter the number of positive pools and/or cases below:

Arbovirus	Positive Mosquito Pools	Equine Cases	Human Cases
Eastern Equine Encephalitis (EEE)	1	0	0
West Nile Virus (WNV)	2	0	0
Other (please list):	1	0	0

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	8 remote, 7 low	7 remote, 8 low
WNV	15 low	15 low

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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: Education, outreach & public relations

What time frame during the year is this method employed?

Check 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.) ☐ Website ☐ Other (please describe):
Estimate the audience reached this year using the education/outreach methods above: Comments:
 List your program's top 3 education/outreach activities for this past year: Cape Cod & Islands Conservation Agents Network - March Meeting Environmental Scince Program - Cape Cod Community College Cape & Islands Health Agents Coalition Annual Update
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: Mosquito Mayhem, NMCA Field Day, NMCA Annual Conference
Please list the certifications and degrees held by your staff: Mass Pesticide Applicator's Licenses, Commercial Certifications, CDL & Hydraulic Licenes, Master of Science Entomology, GIS Certification, Drone Certification
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: Inconsistent internet connectivity, ESRI ArcGIS glitches and delays

Comments:	

REVENUES & EXPENDITURES

Please enter your approved budgets for the current, previous, and future fiscal years.

	Date of Fiscal	Approved Budget	Notes
	Year		
Previous	2023	\$2,718,239	
Current	2024	\$2,718,239	
Future	2025	\$3,044,426	

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):

Barnstable	\$461,460
Bourne	\$144,620
Brewster	\$125,143
Chatham	\$222,074
Dennis	\$225,724
Eastham	\$91,109
Falmouth	\$391,279
Harwich	\$180,900
Mashpee	\$172,970
Orleans	\$123,212
Provincetown	\$102,379
Sandwich	\$137,696
Truro	\$66,468
Wellfleet	\$75,018
Yarmouth	\$197,188

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SERVICE REQUESTS

How many service requests did you receive this season? 172 How many were for larviciding? 172 How many were for adulticiding?

Was this an increase or decrease over last season? Decrease

Comments:

EXCLUSIONS

How many exclusion requests did you receive this season? 56

Was this an increase or decrease over last season? Increase

Do you have large areas of pesticide exclusion, including priority habitat? Yes

SPECIAL PROJECTS

SFEGIAL FROJECTS
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: Salt Marsh Resiliency Waquoit Bay National Estuarine Reserve, Herring River Restoration Project, Mass Audubon
 Participate in any state/regional/national workgroups or panels, or attend any meeting pertaining to the above?
Describe: Herring River Restoration Stakeholders Committee, Smart Marsh Adaptabilit & Resiliency Team Cape Cod
 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? Yes

If yes, please explain: All schools located in Barnstable County were required to have our larvicide products in their school outdoor IPM plan.

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,

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PROGRAM

Did your program report any adverse incidents during this reporting period? Choose one

If yes, please list any corrective actions here: _____

GENERAL COMMENTS

please elaborate here:

Please add any comments here for topics not covered elsewhere in this report: Cape Cod
Mosquito Control Project is a partner under the EPA's PestWise Program (formerly the Pesticide Environmental Stewardship Program- PESP) under the auspices of the American Mosquito Control Association. Cape Cod Mosquito Control Project works closely with the Town Boards of Health, Town Conservation Commissions and with the Cape and Island Health Agents Coalition, the US Fish and Wildlife Service, MA Division of Marine Fisheries as well as working with local citizens who have mosquito concerns.