

Annual Operations Report

Year Report Covers: 2025 Date of Report: 2/3/26

Project/District Name: Dukes County

Count of Cities and Towns in Service Area: 6

Alphabetical List of Cities/Towns: Aquinnah, Chilmark, Edgartown, Oak Bluffs, Tisbury, West Tisbury

Were there any changes to your service area this year? No

Municipality added:

Municipality removed:

HQ Address: 9 Airport Rd Edgartown, MA

Phone: 540-216-9618 Email: biologist@dukescounty.org

Report Prepared By: Patrick Roden-Reynolds

Misson Statement, if available:

ORGANIZATION SETUP

Commissioner Names:

Superintendent/Director Name: Asst. Superintendent/Director Name:

District/Project Website: <https://islandspublichealth.com/mosquito-borne-illness/>

Please list below any additional social media accounts:

Staffing levels for the year of this report:

Full time: Part time: Seasonal: Other: (please describe)

Of the above, how many are:

(Please check off all that apply, and list how many are Full Time, Part Time, Or Seasonal)

<input type="checkbox"/> Administrative	<input type="checkbox"/> Facilities	<input type="checkbox"/> Wetland scientist
<input checked="" type="checkbox"/> Biologist Full time	<input type="checkbox"/> Information technology	<input type="checkbox"/> Other (please describe)
<input type="checkbox"/> Educator	<input type="checkbox"/> Laboratory	
<input type="checkbox"/> Entomologist	<input type="checkbox"/> Operations	
	<input type="checkbox"/> Public relations	

Comments:**During the season, the following were maintained:**

Count	Equipment Type	Type(s)
	Modified wetland equipment	
	Larval control equipment	
	ULV sprayers	
	Electric Vehicles	
	Gas Powered Vehicles	
	Other:	

Comments:**INTEGRATED PEST MANAGEMENT (IPM):**

Check off all services that your district/project currently provides to member municipalities as part of an IPM program (details will be provided in the sections below):

<input type="checkbox"/> Adult mosquito control	<input type="checkbox"/> Larval mosquito surveillance
<input checked="" type="checkbox"/> Adult mosquito surveillance	<input type="checkbox"/> Open Marsh Water Management
<input type="checkbox"/> Ditch maintenance	<input type="checkbox"/> Research
<input checked="" type="checkbox"/> Education, Outreach & Public education	<input type="checkbox"/> Source reduction
<input type="checkbox"/> Larval mosquito control	<input type="checkbox"/> Other (Please List:)

Comments:

LARVAL MOSQUITO SURVEILLANCE

If you have a larval mosquito surveillance program, please fill out the section below, otherwise skip ahead to the next section.

Describe the purpose of this program:

What months is this program active?

Describe the process of monitoring / sampling:

Describe the habitat that is being sampled:

What environmental conditions (vegetation, water quality, predators) are observed?

How frequently are sites monitored?

Comments:

ADULT MOSQUITO SURVEILLANCE

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

Describe the purpose of this program: Participate in MDPH arbovirus surveillance program

What months is this program active? July, August, September, October

Check off all trap types used this past season by your program:

Trap Type	Canopy? (check box for yes)	Number of traps (leave blank if zero)
ABC light trap	<input type="checkbox"/>	
ABC light trap w/CO ₂	<input type="checkbox"/>	
CDC light trap	<input type="checkbox"/>	
CDC light trap w/CO ₂	<input type="checkbox"/>	
Gravid trap	<input checked="" type="checkbox"/>	6
Landing rate test	<input type="checkbox"/>	
NJ light trap	<input type="checkbox"/>	
NJ light trap w/CO ₂	<input type="checkbox"/>	
Ovitrap	<input type="checkbox"/>	
Resting box	<input type="checkbox"/>	
Other (please describe):		
Other (please describe):		
Other (please describe):		

Do you maintain long-term trap sites in any of your areas? Yes or No: No

If yes, how many:

Please check off the species of **concern** in your service area:

<input type="checkbox"/> <i>Ae. albopictus</i>	<input type="checkbox"/> <i>Cx. salinarius</i>	<input type="checkbox"/> <i>Oc. sollicitans</i>
<input type="checkbox"/> <i>Ae. cinereus</i>	<input type="checkbox"/> <i>Cs. melanura</i>	<input type="checkbox"/> <i>Oc. taeniorhynchus</i>
<input type="checkbox"/> <i>Ae. vexans</i>	<input type="checkbox"/> <i>Cs. morsitans</i>	<input type="checkbox"/> <i>Oc. triseriatus</i>
<input type="checkbox"/> <i>An. punctipennis</i>	<input checked="" type="checkbox"/> <i>Cx. restuans</i>	<input type="checkbox"/> <i>Oc. trivittatus</i>
<input type="checkbox"/> <i>An. quadrimaculatus</i>	<input type="checkbox"/> <i>Oc. abserratus</i>	<input type="checkbox"/> <i>Ps. ferox</i>
<input type="checkbox"/> <i>Cq. perturbans</i>	<input type="checkbox"/> <i>Oc. canadensis</i>	<input type="checkbox"/> <i>Ur. sapphirina</i>
<input checked="" type="checkbox"/> <i>Cx. pipiens</i>	<input type="checkbox"/> <i>Oc. cantator</i>	<input type="checkbox"/> <i>Others:</i>
<input checked="" type="checkbox"/> <i>Cx. restuans</i>	<input checked="" type="checkbox"/> <i>Oc. j. japonicus</i>	

Do you participate in the **MDPH Arboviral Surveillance program?** (yes/no): Yes

How many pools did you submit weekly on average? 3

Total number of adult mosquito pools submitted to DPH this past season: 47

Number of adult mosquito pools collected but not submitted to DPH ("Unsubmitted"): 0

Total number of adult mosquitoes submitted to DPH this past season: 738

ADULT MOSQUITO SURVEILLANCE

Number of adult mosquitoes collected this season but not submitted to DPH: 125

Number of Ovitrap collections this season, if any:

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? Yes or No:

Which arboviruses were found in your area during this past mosquito season?

Enter the number of positive pools and/or cases below:

Comments:

Arbovirus	+ Mosquito Pools	Equine Cases	Human Cases
<input type="checkbox"/> Eastern Equine Encephalitis (EEE)			
<input checked="" type="checkbox"/> West Nile Virus (WNV)	1	0	0
<input type="checkbox"/> Other (please list):			

For each arbovirus listed below, please list number of municipalities at each risk level in your project area at both the start and peak of the season (say "all" if all municipalities are at same risk level):

Arbovirus	Start of Season	Peak of Season
EEE	Remote-all municipalities	Remote-all municipalities
WNV	Low-all municipalities	Low-all municipalities

Comments:

LARVAL MOSQUITO CONTROL:

If you have a larval mosquito control program, please fill out the section below, otherwise skip ahead to the next section.

Describe the purpose of this program:

What months is the program active?

Describe the types of areas where you use this program:

Do you use:

- Aerial applications. Describe operations:
- Portable applications. Describe operations:
- Other (please list):

LARVAL MOSQUITO CONTROL

What is your trigger for larvicide operations? (check all that apply)

- Best professional judgment. Describe:
- Historical records
- Larval dip counts – Describe trigger for application:
- Other (please describe):

Comments:

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

ADULT MOSQUITO CONTROL:

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

Describe the purpose of this program:

What is the time frame for this program?

Describe the types of areas where you use this program:

Do you use:

- Aerial applications. Describe operations:
- Portable applications. Describe operations:
- Truck applications. Describe operation:
- Other (please list):

For each product used, please list the name, EPA #, and application rate(s):

Please describe the maximum amounts or frequency used in a particular time frame such as season and areas:

What is your trigger for adulticiding operations? (check all that apply)

- Arbovirus data
- Best professional judgment
- Complaint calls. Describe trigger for application:
- Landing rates. Describe trigger for application:
- Light trap data. Describe trigger for application:

Comments:

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

SOURCE REDUCTION

If you practice source reduction methods, such as tire removal, please fill out the sections below, otherwise skip ahead to the next section.

Tire Removal

Please describe your program:

What time frame during the year is this method employed?

Comments:

Water Management/ Ditch Maintenance

If you have a water management or ditch maintenance program, please fill out the section below, otherwise 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)
<input type="checkbox"/> Culvert cleaning	
<input type="checkbox"/> Hand cleaning	
<input type="checkbox"/> Mechanized cleaning	
<input type="checkbox"/> Stream flow improvement	
<input type="checkbox"/> Other (Please List:)	

Comments:

Water Management/ Ditch Maintenance

For saltwater ditch maintenance, check off all that apply:

Maintenance Type	Estimate of cumulative length of ditches maintained (ft)
<input type="checkbox"/> Hand cleaning	
<input type="checkbox"/> Mechanized cleaning	
<input type="checkbox"/> Other (Please List:)	

Comments:

What time frame during the year is this method employed?

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

Open Marsh Water Management

If you have an Open Marsh Water Management program, please fill out the section below, otherwise skip ahead to the next section.

Describe the purpose of this program:

What months is this program active?

Please give an estimate of total square feet or acreage:

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

MEASURES OF EFFACACY

Describe monitoring efficacy efforts for each of the following:

Aerial Larvicide – wetlands:

Ground ULV Adulicide:

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):

Research Project	Details
Bottle assays	
Efficacy testing	
Other:	
Other:	

EDUCATION, OUTREACH & PUBLIC RELATIONS

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

Describe the purpose of this program: Educate the public on mosquito prevention and safety

What time frame during the year is this method employed? May-October

Check off all education/outreach methods that were performed by your program this year:

<input checked="" type="checkbox"/> Development/distribution of brochures, handouts, etc.	<input checked="" type="checkbox"/> Presentations at meetings
<input type="checkbox"/> Door-to-door canvassing (door hangers, speaking to property owners, etc.)	<input type="checkbox"/> School-based programs, science fairs, etc.
<input type="checkbox"/> Facebook page, Twitter, or other social media	<input checked="" type="checkbox"/> Tabling at events (local events, annual meetings, etc.)
<input type="checkbox"/> Mailings (Describe target audience(s):)	<input checked="" type="checkbox"/> Website
<input checked="" type="checkbox"/> Media outreach (interviews for print or online media sources, press releases, etc.)	<input type="checkbox"/> Other (please describe):

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

List your program's top 3 education/outreach activities for this past year:

1. Agricultural Fair
2. HarborFest
3. Hospital Health Fair

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

Please list any certifications and degrees held by your staff: Biologist: Master of Science

List any training/education your staff received this year:

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/Toughbook
- Other (please describe):

Describe any changes/enhancements in IT from the previous year:

REVENUES & EXPENDITURES

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

	Date of Fiscal Year	Approved Budget
Previous	2024	3000
Current	2025	1200
Future		

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:

SERVICE REQUESTS

How many service requests did you receive this season?

How many were for larviciding?

How many were for adulticiding?

Was this an increase or decrease over last season?

Comments:

EXCLUSIONS

How many exclusion requests did you receive this season?

Was this an increase or decrease over last season? Yes or No:

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

Comments:

SPECIAL PROJECTS

Did your program perform any of the following special projects?

Project	Description
<input type="checkbox"/> Inspectional services (inspections at sewage treatment facilities, review of subdivision plans, etc.)	
<input type="checkbox"/> 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.	
<input type="checkbox"/> Work with groups as described above on long-term solutions.	
<input type="checkbox"/> Conduct or participate in any cooperative research or restoration projects?	
<input type="checkbox"/> Participate in any state/regional/national workgroups or panels, or attend any meeting pertaining to the above?	
<input type="checkbox"/> Work on any biological control projects, such as enhancement of habitat for native predators, release of predatory fish or invertebrates, etc.?	
<input type="checkbox"/> Other	

GENERAL COMMENTS

Please add any comments here for topics not covered elsewhere in this report: